

DRAFT

FILL MATERIAL SAMPLING REPORT

**13800 TACOMA STREET
DETROIT, WAYNE COUNTY, MICHIGAN 48205**



**NOVEMBER 4, 2025
REVISED DECEMBER 12, 2025**

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



FILL MATERIAL SAMPLING REPORT

**13800 TACOMA STREET
DETROIT, WAYNE COUNTY, MICHIGAN 48205**

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EXECUTIVE SUMMARY

The Mannik & Smith Group, Inc. (MSG) was retained by the City of Detroit (COD) to perform sampling and analysis of fill materials at the property commonly addressed as 13800 Tacoma Street, Detroit, Wayne County, Michigan (hereinafter, the "Site"). The Site location, as referenced to nearby roads and major geographic features, is shown on Figure 1, *Site Location Map*. Figure 2, *Site Layout*, depicts the current layout of the Site.

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

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

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

- The stratigraphy encountered during soil boring advancement of 13800 SB01, 13800 SB02, and 13800 SB03 generally consisted of one to five feet of brownish gray sandy clay with trace gravel underlain by black gravelly sand to six (6) feet bgs, the maximum depth explored for this investigation. Field PID readings of the recovered soil cores ranged from 0.0 to 43.3 parts per million (ppm). There were no visual (staining) and/or olfactory (e.g., petroleum-like odors) indications of contamination observed during soil sampling activities; however, concrete debris was observed in 13800 SB001, 13800 SB002, and 13800 SB03.
- Concentrations of arsenic and chromium (Total) were detected in soil samples 13800 SB01 (1-2) and/or 13800 SB03 (5-6) in excess of their respective Part 201 drinking water protection criteria (DWPC) and/or groundwater surface water interface protection criteria (GSIPC).
- Concentrations of 4,4-DDD, 4,4-DDE, 4,4-DDT, Aroclor 1248, barium, cadmium, chlordane, copper, dieldrin, lead, mercury, total xylenes, and zinc were detected in soil samples 13800 SB01 (1-2'), 13800 SB02 (3-4'), and/or 13800 SB03 (5-6') at concentrations above laboratory method detection limits; however, detected concentrations were below their respective Part 201 GRCC and/or Statewide Default Background Levels.
- Toxicity Characteristic Leaching Procedure (TCLP) laboratory analytical results revealed that concentrations of arsenic and chromium were not in excess of 40 C.F.R. § 261.24 Title 40 - *Protection of Environment, Chapter I - Environmental Protection Agency, Subchapter I - Solid Wastes, Part 261- Identification and Listing of Hazardous Waste, Subpart C - Characteristics of Hazardous Waste*.
- Chloride and SVOCs were not detected above laboratory method detection reporting limits.
- Groundwater was not encountered during soil boring activities completed as part of this investigation. Groundwater is not utilized as drinking water at or near the Site, as municipal water is supplied via the COD, and the general geology of the Site and surrounding area consists of fill materials underlain by clay overlying bedrock. Therefore, the drinking water (DW) exposure pathway can be considered not applicable. Additionally, groundwater was not encountered during this investigation to transport contaminants to either storm sewers or surface water and the clay layer also inhibits migration. Therefore, the groundwater surface water exposure pathway can be considered not applicable.

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

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

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1.0 INTRODUCTION

The Mannik & Smith Group, Inc. (MSG) was retained by the City of Detroit (COD) to conduct sampling and analysis of fill materials at the property commonly addressed as 13800 Tacoma Street, Detroit, Wayne County, Michigan (hereinafter, the "Site"). The Site location as referenced to nearby roads and major geographic features is presented as *Figure 1, Site Location Map*. *Figure 2, Site Layout*, depicts the current layout of the Site.

The purpose of this work was to assist the COD's blight remediation efforts with the sampling and analysis of fill material at the Site through soil sample collection from pre-determined depths. The scope of work for this investigation was performed in general accordance with the COD's *Sampling and Analysis of Fill Materials Scope of Services*, dated June 17, 2025. This report presents the findings of this investigation. Soil samples were collected by MSG on August 11, 2025. The findings of this report are valid as of the report date, subject to the limitations presented in *Appendix A, Limitations*.

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

2.0 PURPOSE AND SCOPE OF WORK

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

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

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

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

3.0 SITE ASSESSMENT METHODOLOGY

The following subsections describe the methodologies employed by MSG at the Site during sampling activities that were conducted on August 11, 2025 and October 10, 2025. Daily field activity reports prepared by MSG are presented in *Appendix B, Daily Field Reports*.

3.1 Preliminary Site Work Activities

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

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

3.2 Soil Sample Collection

The sampling plan for the Site was based on the COD's *Sampling and Analysis of Fill Materials Scope of Services*, dated June 17, 2025, and modified in the field (if necessary) based on encountered conditions and professional judgment of MSG's field personnel. MSG advanced three (3) soil borings, designated 13800 SB01, 13800 SB02, and 13800 SB03, using a direct push drill rig at the locations depicted on Figure 2. Photographs collected during completion of this work are provided in *Appendix C, Investigation Photographs*.

Soils were continuously profiled at each soil boring location from the ground surface to the termination depth of six (6) feet bgs using a 5-foot long, closed-piston Macro-Core® sampling device. A new disposable high-density polyethylene (HDPE) liner was placed within the sampler between each 5-foot sample interval. The recovered soil samples were examined and logged in the field by the MSG field geologist. The soils were classified by MSG's field geologist in general accordance with ASTM D 2488, *Standard Practice for Description and Identification of Soils (Visual-Manual Procedure)*. Soil descriptions were based on visual examination and interpretation by the field geologist.

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

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

3.3 Toxicity Characteristic Leaching Procedure (TCLP) Soil Sample Collection

On October 10, 2025, MSG mobilized to the Site to collect an additional soil sample based on request from the COD. Sample location and analyte(s) were based on the laboratory results of the initial soil investigation. MSG personnel advanced one soil boring in the immediate vicinity of the soil boring location that exhibited the highest laboratory result(s) in excess of Part 201 GRCC. Soils were continuously profiled from the ground surface to the termination depth of six feet bgs using a direct push drill rig. These soils were homogenized in a stainless-steel bowl (or equivalent) to produce a single, composite soil sample. The composite soil sample was placed into unpreserved laboratory-supplied sample containers, as appropriate for the associated laboratory analyses.

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

3.4 Decontamination

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

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

3.5 Analytical Methods

A total of three (3) soil samples, designated 13800 SB01 (1-2'), 13800 SB02 (3-4'), and 13800 SB03 (5-6'), and one (1) composite soil sample designated 13800 Tacoma SB01 TCLP were collected as part of this investigation. These soil samples were submitted to ALS Environmental Laboratory (ALS) in Holland, Michigan for laboratory analysis of the following parameters per the requested parameters as described in the COD's *Sampling and Analysis of Fill Materials Scope of Services*, dated June 17, 2025, and individual TCLP analysis:

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

3.6 Quality Assurance/Quality Control

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

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

4.0 SUMMARY OF RESULTS

The following subsections include a discussion of the soil samples that were collected from the Site on August 11, 2025 and October 10, 2025.

4.1 Site Geology and Hydrogeology

The stratigraphy encountered during soil boring advancement of 13800 SB01, 13800 SB02, and 13800 SB03 generally consisted of one to five feet of brownish gray sandy clay with little gravel underlain by black gravelly sand to six (6) feet bgs, the maximum depth explored for this investigation. Field PID readings of the recovered soil cores ranged from 0.0 to 43.3 ppm. 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 in 13800 SB001, 13800 SB002, and 13800 SB03.

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

4.2 Soil Sample Analytical Results

A total of three (3) soil samples, designated 13800 SB01 (1-2'), 13800 SB02 (3-4'), and 13800 SB03 (5-6') were collected from the Site and submitted to ALS for laboratory analysis of VOCs, SVOCs, PCBs, Michigan 10 Metals, chloride, herbicides, and pesticides.

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

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

Chemical	CAS Number	Soil Sample (feet bgs)	Part 201 GRCC Exceeded / Concentration (µg/kg ¹)	Maximum Detected Concentration (µg/kg)
Arsenic	7440-38-2	13800 SB01 (1-2') 13800 SB03 (5-6')	² DWPC/4,600, ³ GSIPC/4,600	7,140
Chromium	7440-47-3	13800 SB01 (1-2')	GSIPC/3,300	27,600

¹µg/kg – micrograms per kilogram;

²DWPC – Drinking Water Protection Criteria

³GSIPC – Groundwater Surface Water Interface Protection Criteria

To support waste characterization and potential disposal decisions, the laboratory was requested to include the method detection limits in an amended laboratory analytical data report. A copy of the amended laboratory analytical data report is included in *Appendix F, Amended Laboratory Analytical Data Report*.

4.3 TCLP Analytical Results

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

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

4.4 Exposure Evaluation

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

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

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 13800 SB01, 13800 SB02, and 13800 SB03 generally consisted of one to five feet of brownish gray sandy clay with trace gravel underlain by black gravelly sand to six (6) feet bgs, the maximum depth explored for this investigation. Field PID readings of the

recovered soil cores ranged from 0.0 to 43.3 parts per million (ppm). There were no visual (staining) and/or olfactory (e.g., petroleum-like odors) indications of contamination observed during soil sampling activities; however, concrete debris was observed in 13800 SB001, 13800 SB002, and 13800 SB03.

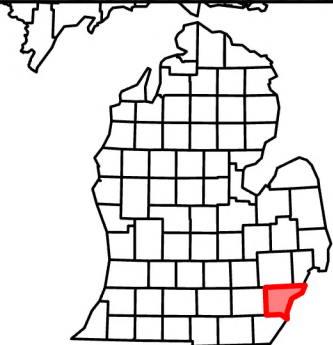
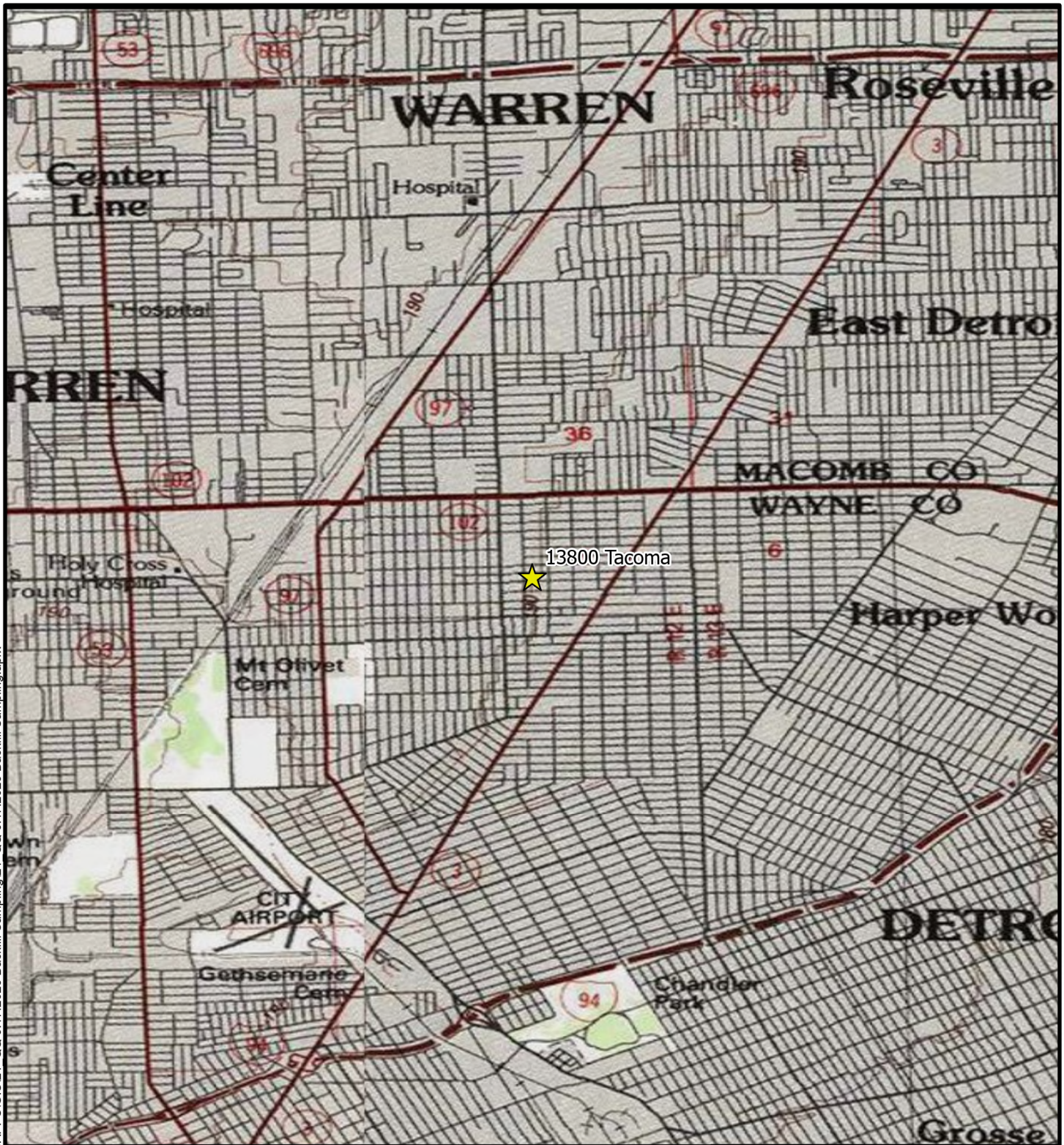
- Concentrations of arsenic and chromium were detected in soil samples 13800 SB01 (1-2) and/or 13800 SB03 (5-6) in excess of their respective Part 201 DWPC and/or GSIPC.
- Concentrations of 4,4-DDD, 4,4-DDE, 4,4-DDT, Aroclor 1248, barium, cadmium, chlordane, chromium (Total), copper, dieldrin, lead, mercury, total xylenes, and zinc were detected in soil samples 13800 SB01 (1-2'), 13800 SB02 (3-4'), and/or 13800 SB03 (5-6') at concentrations above laboratory method detection limits; however, detected concentrations were below their respective Part 201 GRCC and/or Statewide Default Background Levels.
- TCLP laboratory analytical results revealed that concentrations of arsenic and chromium were not in excess of 40 C.F.R. § 261.24 Title 40 - Protection of Environment, Chapter I - Environmental Protection Agency, Subchapter I - Solid Wastes, Part 261- Identification and Listing of Hazardous Waste, Subpart C - Characteristics of Hazardous Waste.
- Chloride and SVOCs were not detected above laboratory method detection reporting limits.
- Groundwater was not encountered during soil boring activities completed as part of this investigation. Groundwater is not utilized as drinking water at or near the Site, as municipal water is supplied via the COD, and the general geology of the Site and surrounding area consists of fill materials underlain by clay overlying bedrock. Therefore, the DW exposure pathway can be considered not applicable. Additionally, groundwater was not encountered during this investigation to transport contaminants to either storm sewers or surface water and the clay layer also inhibits migration. Therefore, the groundwater surface water exposure pathway can be considered not applicable.

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

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

FIGURES





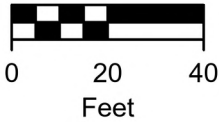
★ Site Location



FIGURE 1
SITE LOCATION

13800 Tacoma, Detroit, MI

DATE 9/23/2025	DRAWN BY JWW	DESIGNED BY JWW	PROJECT NO. DET0060
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- Sample Locations
- Parcels (Current)
- Subject Property

Notes
• Parcel boundaries are approximate
• Basemap Credits: Wayne - 2010 - 1ft - RGB:



FIGURE 2
Site Layout

13800 Tacoma, Detroit, MI

DATE 9/23/2025	DRAWN BY JWW	DESIGNED BY KRB	PROJECT NO. DETR0060
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TABLES



Table 1
Soil Sample Analytical Detection Summary

Detroit Backfill Sampling
13800 Tacoma, Detroit, Michigan

SOIL: Part 201/213 Generic Residential Cleanup Criteria Revised October 12, 2023 Units: µg/kg			Volatile Organic Compounds (VOCs)	Semivolatile Organic Compounds (SVOCs)	Michigan 10 Metals									
			Total Xylenes		Arsenic	Barium (B)	Cadmium (B)	Chromium (Total)	Copper (B)	Lead (B)	Mercury (B,Z)	Selenium (B)	Silver (B)	Zinc (B)
CAS Number			1330-20-7		7440-38-2	7440-39-3	7440-43-9	7440-47-3	7440-50-8	7439-92-1	7439-97-6	7782-49-2	7440-22-4	7440-66-6
Statewide Default Background Levels			NA		5,800	75,000	1,200	18,000	32,000	21,000	130	410	1,000	47,000
Drinking Water Protection Criteria (DWPC)			5,600		4,600	1.3E+06	6,000	30,000	5.8E+06	7.0E+05	1,700	4,000	4,500	2.4E+06
Groundwater Surface Water Interface Protection Criteria (GSIPC)			980		4,600	(G)	(G,X)	3,300	(G)	(G,X)	50 (M); 1.2	400	100 (M); 27	(G)
Soil Volatilization to Indoor Air Inhalation (SVIIC)			6.3E+6 (C)		NLV	NLV	NLV	NLV	NLV	NLV	48,000	NLV	NLV	NLV
Soil Volatilization to Indoor Air Pathway (SVIAP)			280 (J)		NA	NA	NA	--	NA	NA	22 (M)	NA	NA	NA
Infinite Source Volatile Soil Inhalation Criteria (VSIC)			4.6E+07		NLV	NLV	NLV	NLV	NLV	NLV	52,000	NLV	NLV	NLV
Finite Source Volatile Soil Inhalation Criteria (5 m) (VSIC 5m)			6.1E+07		NLV	NLV	NLV	NLV	NLV	NLV	52,000	NLV	NLV	NLV
Finite Source Volatile Soil Inhalation Criteria (2 m) (VSIC 2m)			1.3E+08		NLV	NLV	NLV	NLV	NLV	NLV	52,000	NLV	NLV	NLV
Particulate Soil Inhalation Criteria (PSIC)			2.9E+11		7.2E+05	3.3E+08	1.7E+06	2.6E+05	1.3E+08	1.0E+08	2.0E+07	1.3E+08	6.7E+06	ID
Direct Contact Criteria (DCC)			4.1E+08 (C)		7,600	3.7E+07	5.5E+05	2.5E+06	2.0E+07	4.0E+05	1.6E+05	2.6E+06	2.5E+06	1.7E+08
Soil Saturation Concentration Screening Levels (C _{sat})			1.5E+05		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Recommended Interim Action Screening Level (RIASL)			280		NA	NA	NA	NA	NA	NA	2.7E-02	NA	NA	NA
SAMPLE ID	DEPTH	SAMPLE DATE												
13800 SB01	1-2	8/11/2025	78.1	ND	7,140	97,500	168	27,600	19,700	20,000	44.1	<321	<321	73,700
13800 SB02	3-4	8/11/2025	<107	ND	4,260	51,300	191	12,500	9,230	21,600	65.1	<327	<327	92,400
13800 SB03	5-6	8/11/2025	<131	ND	5,920	59,600	<141	14,000	10,400	19,400	22.6	<353	<353	54,600

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

Table 1
Soil Sample Analytical Detection Summary

Detroit Backfill Sampling
13800 Tacoma, Detroit, Michigan

SOIL: Part 201/213 Generic Residential Cleanup Criteria Revised October 12, 2023 Units: µg/kg			Pesticides/Herbicides					Polychlorinated Biphenyls (PCBs)	Inorganic Anions/Ions
			4,4'-DDD	4,4'-DDE	4,4'-DDT	Dieldrin	Chlordane	Aroclor 1248	Chloride
CAS Number			72548	72559	50-29-3	60571	57749	12672-29-6	16887006
Statewide Default Background Levels			NA	NA	NA	NA	NA	NA	NA
Drinking Water Protection Criteria (DWPC)			NLL	NLL	NLL	NLL	NLL	NA	5.00E+06
Groundwater Surface Water Interface Protection Criteria (GSIPC)			NLV	NLL	NLL	NLL	NLL	NA	(X)
Soil Volatilization to Indoor Air Inhalation (SVIIC)			NLV	NLV	NLV	1.40E+05	1.10E+06	NA	NLV
Soil Volatilization to Indoor Air Pathway (SVIAP)			NA	NA	--	NA	NA	--	--
Infinite Source Volatile Soil Inhalation Criteria (VSIC)			NLV	NLV	NLV	19,000	1.20E+06	NA	NLV
Finite Source Volatile Soil Inhalation Criteria (5 m) (VSIC 5m)			NLV	NLV	NLV	19,000	1.20E+06	NA	NLV
Finite Source Volatile Soil Inhalation Criteria (2 m) (VSIC 2m)			NLV	NLV	NLV	19,000	1.20E+06	NA	NLV
Particulate Soil Inhalation Criteria (PSIC)			4.4E+07	3.2E+07	3.20E+07	6.80E+05	3.10E+07	NA	ID
Direct Contact Criteria (DCC)			9.5E+04	45,000	57,000	1,100	31,000	NA	5.0E+5 (F)
Soil Saturation Concentration Screening Levels (C _{sat})			NA	NA	NA	NA	NA	NA	NA
Recommended Interim Action Screening Level (RIASL)			NA	NA	--	NA	NA	NA	--
SAMPLE ID	DEPTH	SAMPLE DATE							
13800 SB01	1-2	8/11/2025	14	44	14	<2.8	65	<54	ND
13800 SB02	3-4	8/11/2025	5.8	6.2	4.4	3.4	10.8	76	ND
13800 SB03	5-6	8/11/2025	<3.1	14	<3.1	<3.1	13.5	<59	ND

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

Table 2
TCLP Analytical Detection Summary

Detroit Backfill Sampling
13800 Tacoma, Detroit, Michigan

40 C.F.R. § 261.24 Code of Federal Regulations Title 40 - Protection of Environment Chapter I - Environmental Protection Agency Subchapter I - Solid Wastes Part 261- Identification and Listing of Hazardous Waste Subpart C - Characteristics of Hazardous Waste <i>Units: mg/L</i>		TCLP Metals	
		Arsenic	Chromium
Maximum Concentration of Contaminants for the Toxicity Characteristic		5.00	5.00
SAMPLE ID	SAMPLE DATE		
13800 Tacoma SB01 TCLP	10/10/2025	<0.00190	<0.00610

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

APPENDIX A

LIMITATIONS



LIMITATIONS

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

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

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

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

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

APPENDIX B

DAILY FIELD REPORTS



**DAILY FIELD REPORT****Client:** City of Detroit Demolition Department**Project:** Sampling and Analysis of Fill Material**Report No.:** 1**Job No.:** DETR0060

Date: 08/11/2025	Day: Monday	Temp: 80° F	(AM) N/A	(PM)
MSG Personnel: SRK, BJ, BM		Cloud Cover: 0%	(AM) N/A	(PM)
		Precip.: N/A	(AM) N/A	(PM)
Personnel: MSG				
MSG Hours On-Site: ~ 1 hours				

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

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

Field Notes:
1057 – SRK, BJ, and BM onsite (13800 Tacoma Street) 1059 – Unloaded equipment and marked boring locations 1104 – Began drilling SB01 1106 – Finished drilling SB01 1108 – Began drilling SB02 1110 – Finished drilling SB02 1111 – Sampled 13800 SB01 (1-2') 1112 – Began drilling SB03 1114 – Finished drilling SB03 1120 – Sampled 13800 SB02 (3-4') 1135 – Sampled 13800 SB03 (5-6') 1140 – Packed up equipment 1200 – MSG off site

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



DAILY FIELD REPORT

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

Report No.: 2
Job No.: DETR0060

Date: <u>10/10/2025</u>	Day: <u>Friday</u>	Temp: <u>N/A</u> (AM) <u>60 ° F</u> (PM)
MSG Personnel: <u>SRK, JF</u>	Cloud Cover: <u>N/A</u> (AM) <u>0%</u> (PM)	Precip.: <u>N/A</u> (AM) <u>N/A</u> (PM)
Personnel: <u>MSG</u>		
MSG Hours On-Site: <u>~ 0.5 hours</u>		

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

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

Field Notes:
1312 – MSG (SRK, JF) onsite (13800 Tacoma) 1315 – Attempted to locate previous boring locations. Marked out new boring location. 1321 – Began drilling SB01 TCLP 1323 – Finished drilling SB01 TCLP 1330 – Sampled 13800 Tacoma SB01 TCLP 1335 – Collected GPS points 1344 – Packed up equipment 1350 – MSG off site

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

APPENDIX C

INVESTIGATION PHOTOGRAPHS





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

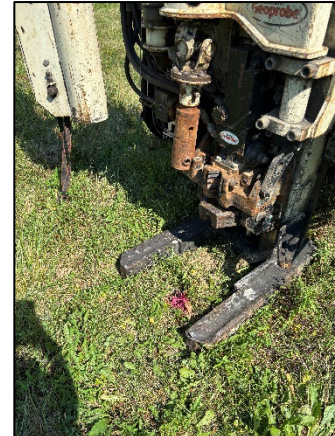


Photo 2: Viewing 13800 SB01 Drilling, Facing Southwest.



Photo 3: Viewing 13800 SB01 Soils, Facing West.



Photo 4: Viewing 13800 SB02 Drilling, Facing West.



Photo 5: Viewing 13800 SB02 Soils, Facing West.



Photo 6: Viewing 13800 SB02 Soils, Facing West.



Photo 7: Viewing 13800 SB03 Drilling, Facing West.



Photo 8: Viewing 13800 SB03 Soils, Facing West.



Photo 9: Viewing 13800 SB03 Soils, Facing West.



Photo 10: Viewing 13800 SB03 Soils, Facing West.



Photo 11: View of Site at the time of TCLP soil boring activities



Photo 12: View of TCLP soil boring location



Photo 13: View of soil recovery at the time of TCLP sampling



Photo 14: View of Site at the time of TCLP soil boring activities

APPENDIX D

SOIL BORING LOGS





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

BORING ID: SB01

PAGE 1 OF 1

CLIENT	City of Detroit	PROJECT NAME	13800 Tacoma
PROJECT NUMBER	DETR0060	PROJECT LOCATION	13800 Tacoma St, Detroit, Michigan
DATE STARTED	8/11/25	COMPLETED	8/11/25
BORING DIAMETER:	3.25 inches		
DRILLING CONTRACTOR	MSG		
SURVEY COORDINATES:	N/A		
DRILLING METHOD	Direct Push		
GROUND SURFACE ELEV.:	N/A		
LOGGED BY	SRK	CHECKED BY	PDH
NOTES		GROUND WATER ENCOUNTERED DURING DRILLING: Not Encountered	
		WATER LEVEL AFTER DRILLING: N/A	

ENV BORING LOG (PID) - GINT STD US LAB.GDT - 8/20/25 14:42 - W:\PROJECTS\PROJECTS A-EDETR0060\ADMIN\23_QQ 7.25.2025 BACKFILL SAMPLING (48 SITES)\13800 TACOMA\BORING LOGS\DETR0060_13800.GPJ

DEPTH (FEET)	SAMPLE TYPE NUMBER	RECOVERY (FEET)	GRAPHIC LOG	DEPTH (FEET)	MATERIAL DESCRIPTION	PID (ppm)	LABORATORY SAMPLE	REMARKS
0								
					Brown and Gray Sandy CLAY, with some gravel	4.3		
						43.3		Collected soil sample 13800 SB01 (1-2) at 11:11
					Some concrete debris at 3 feet bgs	4.7		
						1.2		
5						0.4		
						0.2		
					Bottom of borehole at 6.0 feet.			

CLIENT City of Detroit

PROJECT NAME 13800 Tacoma

PROJECT NUMBER DETR0060

PROJECT LOCATION 13800 Tacoma St, Detroit, Michigan

DATE STARTED 8/11/25

COMPLETED 8/11/25

BORING DIAMETER: 3.25 inches

DRILLING CONTRACTOR MSG

SURVEY COORDINATES: N/A

DRILLING METHOD Direct Push

GROUND SURFACE ELEV.: N/A

LOGGED BY SRK

CHECKED BY PDH

 GROUND WATER ENCOUNTERED DURING DRILLING: Not Encountered

NOTES

▼ WATER LEVEL AFTER DRILLING: N/A

DEPTH (FEET)	SAMPLE TYPE NUMBER	RECOVERY (FEET)	GRAPHIC LOG	DEPTH (FEET)	MATERIAL DESCRIPTION	PID (ppm)	LABORATORY SAMPLE	REMARKS
0								
					Brown and Gray Sandy CLAY, some gravel	0.0		
						0.0		
						0.0		
	MC 1	4.5		3.0		0.0		
				3.3	Concrete debris (Fill)			
					Brown and Gray Sandy CLAY, some gravel	0.0		
5						0.0		
				5.8		0.0		
				6.0	Black Gravelly SAND	0.0	X	Collected soil sample 13800 SB03 (5-6) at 11:35
					Bottom of borehole at 6.0 feet.			

APPENDIX E

LABORATORY ANALYTICAL REPORTS AND CHAIN OF CUSTODY FORMS





right solutions.
right partner.

CERTIFICATE OF ANALYSIS

Work Order

HN2511283

Client

The Mannik & Smith Group, Inc.

Project

13800_Tacoma

Project Date

August 12, 2025

Reporting Contact

Ryan Montri



right solutions.
right partner.

September 02, 2025

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

Work Order: **HN2511283**

Re: **13800_Tacoma**

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

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

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

If you have any questions regarding this report, please feel free to contact me:
ADDRESS: 3352 128th Avenue, Holland, MI, USA PHONE: +1 (616) 399-6070 FAX: +1 (616) 399-6185

Bill Carey
/S/ **BILL CAREY**
Project Manager



Client: The Mannik & Smith Group, Inc.
Project: 13800_Tacoma

Work Order: HN2511283
Date Received: 12-Aug-2025

CASE NARRATIVE

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

Sample Receipt

3 soil/solid samples were received for analysis at ALS Environmental on 12-Aug-2025. Any discrepancies upon initial sample inspection are annotated on the sample receipt and preservation form included within this report. The samples were stored at minimum in accordance with the analytical method requirements.

Inorganics

EPA 9056A-S (High)

Run ID: 3405747

Matrix spike duplicate value was outside upper limit of calibration. Processed at equivalent dilution level as the parent. C,S
Matrix spike value was outside upper limit of calibration. Processed at equivalent dilution level as the parent. C,S

Run ID: 3400098

Matrix spike value was outside upper limit of calibration. Processed at equivalent dilution level as the parent. Chloride
The MS recovery was above the upper control limit. The corresponding result in the parent sample may be biased high for this analyte: Chloride, Fluoride, Sulfate
Matrix spike duplicate value was outside upper limit of calibration. Processed at equivalent dilution level as the parent. Chloride
The LCS recovery was above the upper control limit. The sample results for this batch may be biased high for this analyte: Fluoride
The MSD recovery was above the upper control limit. The corresponding result in the parent sample may be biased high for this analyte: Chloride, Fluoride

Organics

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

Run ID: 3403304

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

Run ID: 3410072

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

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

Samples have low surrogate recovery. Control charting demonstrated consistent recovery below control limits. Acceptable surrogate limit lowered to 72% recovery.

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

Metals**EPA 6020B-3050B-S****Run ID: 3410505**

The MS recovery was above the upper control limit. The corresponding result in the parent sample may be biased high for this analyte: Cr batch 2162039

The MS recovery was outside of the control limit. However, the MSD recovery and the RPD between the MS and MSD was in control. No qualification is required for this analyte: Cr, Mo batch 2162042

The MSD recovery was below the lower control limit. The corresponding result in the parent sample may be biased low for the following analyte(s): Cd, Se, Ag batch 2162042

The MSD recovery was outside of the control limit. However, the MS recovery and the RPD between the MS and MSD was in control. No qualification is required for this analyte: Ni batch 2162042

The MSD recovery was above the upper control limit. The corresponding result in the parent sample may be biased high for this analyte: Cr batch 2162039

The MS recovery was below the lower control limit. The corresponding result in the parent sample may be biased low for this analyte: Cd, Se, Ag batch 2162042

Run ID: 3405977

The MSD recovery was outside of the control limit; however, the result in the parent sample is greater than 4x the spike amount. No qualification is required for this analyte: Ba, Zn batch 2162042

The MS recovery was outside of the control limit; however, the result in the parent sample is greater than 4x the spike amount. No qualification is required for this analyte: Ba, Zn batch 2162042

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: 13800 SB01 (1-2)	Lab ID: HN2511283-001
-----------------------------	-----------------------

Analyte	Results	Flag	MRL	Units	Method
Arsenic	7.14		0.321	mg/kg	EPA 6020B
Barium	97.5		0.321	mg/kg	EPA 6020B
Cadmium	0.168		0.128	mg/kg	EPA 6020B
Chromium	27.6		0.321	mg/kg	EPA 6020B
Copper	19.7		3.21	mg/kg	EPA 6020B
Lead	20.0		0.321	mg/kg	EPA 6020B
m+p-Xylene	78.1		73.8	µg/kg	EPA 8260D
Mercury	0.0441		0.0204	mg/kg	EPA 7471B
Percent Moisture	9.9		0.1	%	EPA 3550C
Subcontract Analysis	See attached.			-	EPA 8081B
Subcontract Analysis	See attached.			-	EPA 8082A
Subcontract Analysis	See attached.			-	EPA 8151A
Subcontract Analysis	See attached.			-	EPA 8270E
Zinc	73.7		0.641	mg/kg	EPA 6020B

CLIENT ID: 13800 SB02 (3-4)	Lab ID: HN2511283-002
-----------------------------	-----------------------

Analyte	Results	Flag	MRL	Units	Method
Arsenic	4.26		0.327	mg/kg	EPA 6020B
Barium	51.3		0.327	mg/kg	EPA 6020B
Cadmium	0.191		0.131	mg/kg	EPA 6020B
Chromium	12.5		0.327	mg/kg	EPA 6020B
Copper	9.23		0.327	mg/kg	EPA 6020B
Lead	21.6		0.327	mg/kg	EPA 6020B
Mercury	0.0651		0.0200	mg/kg	EPA 7471B
Percent Moisture	9.5		0.1	%	EPA 3550C
Subcontract Analysis	See attached.			-	EPA 8081B
Subcontract Analysis	See attached.			-	EPA 8082A
Subcontract Analysis	See attached.			-	EPA 8151A
Subcontract Analysis	See attached.			-	EPA 8270E
Zinc	92.4		0.654	mg/kg	EPA 6020B

CLIENT ID: 13800 SB03 (5-6)	Lab ID: HN2511283-003
-----------------------------	-----------------------

Analyte	Results	Flag	MRL	Units	Method
Arsenic	5.92		0.353	mg/kg	EPA 6020B
Barium	59.6		0.353	mg/kg	EPA 6020B
Chromium	14.0		0.353	mg/kg	EPA 6020B
Copper	10.4		0.353	mg/kg	EPA 6020B
Lead	19.4		0.353	mg/kg	EPA 6020B
Mercury	0.0226		0.0200	mg/kg	EPA 7471B
Percent Moisture	17.0		0.1	%	EPA 3550C
Subcontract Analysis	See attached.			-	EPA 8081B

SAMPLE DETECTION SUMMARY

This form includes only detections above the limits as presented.

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



CLIENT ID: 13800 SB03 (5-6)

Lab ID: HN2511283-003

Analyte	Results	Flag	MRL	Units	Method
Subcontract Analysis	See attached.			-	EPA 8082A
Subcontract Analysis	See attached.			-	EPA 8151A
Subcontract Analysis	See attached.			-	EPA 8270E
Zinc	54.6		0.706	mg/kg	EPA 6020B

SAMPLE SUMMARY



Client: The Mannik & Smith Group, Inc.
Project: 13800_Tacoma
Workorder: HN2511283

Laboratory Sample ID	Client Sample ID	Sample Matrix	Collection Date	Date Received
HN2511283-001	13800 SB01 (1-2)	SOIL/SOLID	08/11/25 11:11	08/12/25 08:00
HN2511283-002	13800 SB02 (3-4)	SOIL/SOLID	08/11/25 11:20	08/12/25 08:00
HN2511283-003	13800 SB03 (5-6)	SOIL/SOLID	08/11/25 11:35	08/12/25 08:00



ALS Environmental

Laboratory location:

Chain of Custody Form

Page 1 of 1

Customer Information		Project Information					Parameter/Method Request for Analysis										
Purchase Order		Project Name	13800_Tacoma				A	VOCs (U.S. EPA Method 8260C (or Method 8260))									
Work Order		Project Number	DETR0060				B	SVOCs (U.S. EPA Method 8270D (or Method 8270))									
Company Name	The Mannik and Smith Group	Billed To Company	The Mannik and Smith Group				C	PCBs (U.S. EPA Method 8082)									
Send Report To	Ryan Montri	Invoice Attn.					D	Mi 10 Metals (U.S. EPA 6000/7000 Series Methods)									
Address	2365 Haggerty Rd South Suite 100	Address	2365 Haggerty Rd South Suite 100				E	Chorides (U.S. EPA Method 9056A)									
City/State/Zip	Canton, MI 48188	City/State/Zip	Canton, MI 48188				F	Pesticides (U.S. EPA Method 8081B (or Method 8081))									
Phone	734-397-3100	Phone	734-397-3100				G	Herbicides (U.S. EPA Method 8151A (or Method 8151))									
Fax		Fax					H										
e-Mail Address	RMontri@mnniksmithgroup.com	e-Mail Address					I										
							J										
No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	
1	13800 SB01 (1-2)	8/11/25	11:11	Soil	7	3	X	X	X	X	X	X	X				
2	13800 SB02 (3-4)	8/11/25	11:20	Soil	7	3	X	X	X	X	X	X	X				
3	13800 SB03 (5-6)	8/11/25	11:35	Soil	7	3	X	X	X	X	X	X	X				
4																	
5																	
6																	
7																	
8																	
9																	
10																	
Sampler(s): Please Print & Sign		Shipment Method:		Required Turnaround Time:				Other				Results Due Date:					
Shannon Kaczmarek				☐ STD 10 Wk Days ☒ 5 Wk Days ☐ 2 Wk Days ☐ 24 Hour													
Relinquished by:		Date:	Time:	Received by:		Notes:		Quote# HN-061825-M&S-MA				8/12/25					
Shannon Kaczmarek		8/11/25	12:45	Caleb		QC + Brittany Kaczmarek						0700					
Relinquished by:		Date:	Time:	Received by (Laboratory):		Cooler Temp.		QC Package: (Check Box Below)									
		8/11/25	12:00	QS		IR6		☐ Level II: Standard QC				TRRP-Checklist					
Logged by (Laboratory):		Date:	Time:	Checked by (Laboratory):		5.6C		☐ Level III: Std QC + Raw Data				TRRP Level IV					
BH		8/12/25	08:06					☐ Level IV: SW846 CLP-Like									
Preservative Key: 1-HCL 2-HNO3 3-H2SO4 4-NAOH 5-NA2S2O3 6-NAHSO4 7-Other 8-4 degrees C 9-5035								Other:									

Environmental Division
Holland
Work Order Reference
HN2511283

Telephone : +1 616 399 6070

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

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

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ALS Holland Sample Receiving Checklist

Received by:

BC

Date/Time:

8/14/25 0800

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):

9.6°C

Thermometer(s):

IR6

Sample(s) received on ice?

☒ Yes / No

Matrix/Matrices:

Soil

Cooler(s)/Kit(s):

Date/Time sample(s) sent to storage:

8/14/25 13:55

Water – VOA vials have zero headspace?

☒ Yes / No / No Vials

Water – pH acceptable upon receipt?

☒ Yes / No / N/A

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

pH adjusted (note adjustments below)?

☒ Yes / No / N/A

pH adjusted by:

Login Notes:

REPORT QUALIFIERS AND DEFINITIONS

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

Holland Laboratory Certifications¹

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

¹ - Scope available upon request

ANALYST SUMMARY



Client: The Mannik & Smith Group, Inc.
Project: 13800_Tacoma

Work Order: HN2511283

Sample Name: 13800 SB01 (1-2)
Laboratory Code: HN2511283-001
Sample Matrix: SOIL/SOLID

Date Collected: 08/11/25
Date Received: 08/12/25

Analysis Method	Preparation Method	Container ID	Preparation Lot	Prepared By	Analysis Lot	Analyzed By
EPA 3550C		001-AC	2158508		3397652	Nicole Maleski
EPA 6020B	EPA 3050B	001-AC	2162042	Chloe Patrick	3405977	Stephanie Pierson
EPA 6020B	EPA 3050B	001-AC	2162042	Chloe Patrick	3410505	Stephanie Pierson
EPA 7471B	Method	001-AC	2162145	Maxx Richey	3405106	Maxx Richey
EPA 8081B		001-AD			3456080	Bill Carey
EPA 8082A		001-AD			3456080	Bill Carey
EPA 8151A		001-AD			3456080	Bill Carey
EPA 8260D	EPA 5035A	001-AA	2156052	Jonathan Vazquez	3403304	John Garvale
EPA 8260D	EPA 5035A	001-AA	2156052	Jonathan Vazquez	3404823	John Garvale
EPA 8260D	EPA 5035A	001-AA	2166362	John Garvale	3410072	John Garvale
EPA 8270E		001-AD			3456080	Bill Carey
EPA 9056A	EPA 9056A	001-AC	2158565	Sage Hansen	3400098	Sage Hansen

Sample Name: 13800 SB02 (3-4)
Laboratory Code: HN2511283-002
Sample Matrix: SOIL/SOLID

Date Collected: 08/11/25
Date Received: 08/12/25

Analysis Method	Preparation Method	Container ID	Preparation Lot	Prepared By	Analysis Lot	Analyzed By
EPA 3550C		002-AC	2158508		3397652	Nicole Maleski
EPA 6020B	EPA 3050B	002-AC	2162042	Chloe Patrick	3405977	Stephanie Pierson
EPA 7471B	Method	002-AC	2162145	Maxx Richey	3405106	Maxx Richey
EPA 8081B		002-AD			3456080	Bill Carey
EPA 8082A		002-AD			3456080	Bill Carey
EPA 8151A		002-AD			3456080	Bill Carey
EPA 8260D	EPA 5035A	002-AA	2156052	Jonathan Vazquez	3403304	John Garvale
EPA 8260D	EPA 5035A	002-AA	2156052	Jonathan Vazquez	3404823	John Garvale
EPA 8260D	EPA 5035A	002-AA	2166362	John Garvale	3410072	John Garvale
EPA 8270E		002-AD			3456080	Bill Carey
EPA 9056A	EPA 9056A	002-AC	2158565	Sage Hansen	3400098	Sage Hansen

ANALYST SUMMARY



Client: The Mannik & Smith Group, Inc.
Project: 13800_Tacoma

Work Order: HN2511283

Sample Name: 13800 SB03 (5-6)
Laboratory Code: HN2511283-003
Sample Matrix: SOIL/SOLID

Date Collected: 08/11/25
Date Received: 08/12/25

Analysis Method	Preparation Method	Container ID	Preparation Lot	Prepared By	Analysis Lot	Analyzed By
EPA 3550C	EPA 3050B Method	003-AC	2158508	Chloe Patrick Maxx Richey	3397652	Nicole Maleski
EPA 6020B		003-AC	2162042		3405977	Stephanie Pierson
EPA 7471B		003-AC	2162145		3405106	Maxx Richey
EPA 8081B		003-AD			3456080	Bill Carey
EPA 8082A	EPA 5035A	003-AD		Jonathan Vazquez Jonathan Vazquez John Garvale	3456080	Bill Carey
EPA 8151A		003-AD			3456080	Bill Carey
EPA 8260D		003-AA	2156052		3403304	John Garvale
EPA 8260D		003-AA	2156052		3404823	John Garvale
EPA 8260D		003-AA	2166362		3410072	John Garvale
EPA 8270E		003-AD			3456080	Bill Carey
EPA 9056A	EPA 9056A	003-AC	2163330	Quoc Nguyen	3405747	Katrina Grassel

Analytical Report



Client: The Mannik & Smith Group, Inc.
Project: 13800_Tacoma
Matrix: SOIL/SOLID

Work Order: HN2511283
Date Collected: 08/11/25 11:11
Date Received: 08/12/25 08:00

CLIENT ID: 13800 SB01 (1-2)	Lab ID: HN2511283-001
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Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
General Chemistry Parameters								
Percent Moisture	EPA 3550C	9.9		%	0.1	1	08/13/25 16:53	NA
Chloride	EPA 9056A	ND		mg/kg	11.1	1	08/14/25 17:32	08/14/25 11:50
Metals								
Arsenic	EPA 6020B	7.14		mg/kg	0.321	1	08/16/25 03:41	08/15/25 08:37
Barium	EPA 6020B	97.5		mg/kg	0.321	1	08/16/25 03:41	08/15/25 08:37
Cadmium	EPA 6020B	0.168		mg/kg	0.128	1	08/16/25 03:41	08/15/25 08:37
Chromium	EPA 6020B	27.6		mg/kg	0.321	1	08/16/25 03:41	08/15/25 08:37
Copper	EPA 6020B	19.7		mg/kg	3.21	10	08/18/25 17:22	08/15/25 08:37
Lead	EPA 6020B	20.0		mg/kg	0.321	1	08/16/25 03:41	08/15/25 08:37
Selenium	EPA 6020B	ND		mg/kg	0.321	1	08/16/25 03:41	08/15/25 08:37
Silver	EPA 6020B	ND		mg/kg	0.321	1	08/16/25 03:41	08/15/25 08:37
Zinc	EPA 6020B	73.7		mg/kg	0.641	1	08/16/25 03:41	08/15/25 08:37
Mercury	EPA 7471B	0.0441		mg/kg	0.0204	1	08/18/25 10:52	08/15/25 14:35
Subcontracted Parameters								
Subcontract Analysis	EPA 8081B	See attached.		-		1	09/02/25 14:57	NA
Subcontract Analysis	EPA 8082A	See attached.		-		1	09/02/25 14:57	NA
Subcontract Analysis	EPA 8151A	See attached.		-		1	09/02/25 14:57	NA
Subcontract Analysis	EPA 8270E	See attached.		-		1	09/02/25 14:57	NA
Volatile Organic Compounds by GC-MS								
1,1,1-Trichloroethane	EPA 8260D	ND		µg/kg	36.9	1	08/18/25 12:37	08/18/25 12:29
1,1,2,2-Tetrachloroethane	EPA 8260D	ND		µg/kg	36.9	1	08/18/25 12:37	08/18/25 12:29
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	EPA 8260D	ND		µg/kg	36.9	1	08/18/25 12:37	08/18/25 12:29
1,1,2-Trichloroethane	EPA 8260D	ND		µg/kg	36.9	1	08/18/25 12:37	08/18/25 12:29
1,1-Dichloroethane	EPA 8260D	ND		µg/kg	36.9	1	08/18/25 12:37	08/18/25 12:29
1,1-Dichloroethylene	EPA 8260D	ND		µg/kg	36.9	1	08/18/25 12:37	08/18/25 12:29
1,2,3-Trichlorobenzene	EPA 8260D	ND		µg/kg	123	1	08/18/25 12:37	08/18/25 12:29
1,2,3-Trichloropropane	EPA 8260D	ND		µg/kg	36.9	1	08/18/25 12:37	08/18/25 12:29
1,2,4-Trichlorobenzene	EPA 8260D	ND		µg/kg	123	1	08/18/25 12:37	08/18/25 12:29
1,2,4-Trimethylbenzene	EPA 8260D	ND		µg/kg	36.9	1	08/18/25 12:37	08/18/25 12:29
1,2-Dibromo-3-chloropropane (DBCP)	EPA 8260D	ND		µg/kg	123	1	08/18/25 12:37	08/18/25 12:29

Analytical Report



Client: The Mannik & Smith Group, Inc.
Project: 13800_Tacoma
Matrix: SOIL/SOLID

Work Order: HN2511283
Date Collected: 08/11/25 11:11
Date Received: 08/12/25 08:00

CLIENT ID: 13800 SB01 (1-2) **Lab ID: HN2511283-001**

Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
1,2-Dibromoethane (EDB, Ethylene dibromide)	EPA 8260D	ND		µg/kg	36.9	1	08/18/25 12:37	08/18/25 12:29
1,2-Dichlorobenzene (o-Dichlorobenzene)	EPA 8260D	ND		µg/kg	36.9	1	08/18/25 12:37	08/18/25 12:29
1,2-Dichloroethane (Ethylene dichloride)	EPA 8260D	ND		µg/kg	123	1	08/18/25 12:37	08/18/25 12:29
1,2-Dichloropropane	EPA 8260D	ND		µg/kg	36.9	1	08/18/25 12:37	08/18/25 12:29
1,3,5-Trimethylbenzene	EPA 8260D	ND		µg/kg	123	1	08/18/25 12:37	08/18/25 12:29
1,3-Dichlorobenzene (m-Dichlorobenzene)	EPA 8260D	ND		µg/kg	36.9	1	08/18/25 12:37	08/18/25 12:29
1,3-Dichloropropene	EPA 8260D	ND		µg/kg	73.8	1	08/18/25 12:37	08/18/25 12:29
1,4-Dichlorobenzene (p-Dichlorobenzene)	EPA 8260D	ND		µg/kg	36.9	1	08/18/25 12:37	08/18/25 12:29
2-Butanone (Methyl ethyl ketone, MEK)	EPA 8260D	ND		µg/kg	246	1	08/18/25 12:37	08/18/25 12:29
2-Hexanone	EPA 8260D	ND		µg/kg	36.9	1	08/18/25 12:37	08/18/25 12:29
4-Methyl-2-pentanone (MIBK)	EPA 8260D	ND		µg/kg	36.9	1	08/18/25 12:37	08/18/25 12:29
Acetone	EPA 8260D	ND		µg/kg	123	1	08/18/25 12:37	08/18/25 12:29
Benzene	EPA 8260D	ND		µg/kg	36.9	1	08/18/25 12:37	08/18/25 12:29
Bromochloromethane	EPA 8260D	ND		µg/kg	36.9	1	08/18/25 12:37	08/18/25 12:29
Bromodichloromethane	EPA 8260D	ND		µg/kg	36.9	1	08/18/25 12:37	08/18/25 12:29
Bromoform	EPA 8260D	ND		µg/kg	36.9	1	08/18/25 12:37	08/18/25 12:29
Carbon disulfide	EPA 8260D	ND		µg/kg	36.9	1	08/18/25 12:37	08/18/25 12:29
Carbon tetrachloride	EPA 8260D	ND		µg/kg	36.9	1	08/18/25 12:37	08/18/25 12:29
Chlorobenzene	EPA 8260D	ND		µg/kg	36.9	1	08/18/25 12:37	08/18/25 12:29
Chlorodibromomethane	EPA 8260D	ND		µg/kg	36.9	1	08/18/25 12:37	08/18/25 12:29
Chloroethane (Ethyl chloride)	EPA 8260D	ND		µg/kg	123	1	08/18/25 12:37	08/18/25 12:29
Chloroform	EPA 8260D	ND		µg/kg	36.9	1	08/18/25 12:37	08/18/25 12:29
cis & trans-1,2-Dichloroethene	EPA 8260D	ND		µg/kg	73.8	1	08/18/25 12:37	08/18/25 12:29
cis-1,2-Dichloroethylene	EPA 8260D	ND		µg/kg	36.9	1	08/18/25 12:37	08/18/25 12:29
cis-1,3-Dichloropropene	EPA 8260D	ND		µg/kg	36.9	1	08/18/25 12:37	08/18/25 12:29
Cyclohexane	EPA 8260D	ND		µg/kg	123	1	08/18/25 12:37	08/18/25 12:29
Dichlorodifluoromethane (Freon-12)	EPA 8260D	ND		µg/kg	123	1	08/18/25 12:37	08/18/25 12:29
Ethylbenzene	EPA 8260D	ND		µg/kg	36.9	1	08/18/25 12:37	08/18/25 12:29
Isopropylbenzene	EPA 8260D	ND		µg/kg	36.9	1	08/18/25 12:37	08/18/25 12:29

Analytical Report



Client: The Mannik & Smith Group, Inc.
Project: 13800_Tacoma
Matrix: SOIL/SOLID

Work Order: HN2511283
Date Collected: 08/11/25 11:11
Date Received: 08/12/25 08:00

CLIENT ID: 13800 SB01 (1-2) **Lab ID: HN2511283-001**

Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
m+p-Xylene	EPA 8260D	78.1		µg/kg	73.8	1	08/18/25 12:37	08/18/25 12:29
Methyl acetate	EPA 8260D	ND		µg/kg	307	1	08/18/25 12:37	08/18/25 12:29
Methyl bromide (Bromomethane)	EPA 8260D	ND		µg/kg	123	1	08/18/25 12:37	08/18/25 12:29
Methyl chloride (Chloromethane)	EPA 8260D	ND		µg/kg	123	1	08/18/25 12:37	08/18/25 12:29
Methyl tert-butyl ether (MTBE)	EPA 8260D	ND		µg/kg	36.9	1	08/18/25 12:37	08/18/25 12:29
Methylcyclohexane	EPA 8260D	ND		µg/kg	36.9	1	08/18/25 12:37	08/18/25 12:29
Methylene chloride (Dichloromethane)	EPA 8260D	ND		µg/kg	307	1	08/18/25 12:37	08/18/25 12:29
o-Xylene	EPA 8260D	ND		µg/kg	36.9	1	08/18/25 12:37	08/18/25 12:29
Styrene	EPA 8260D	ND		µg/kg	36.9	1	08/18/25 12:37	08/18/25 12:29
Tetrachloroethylene (Perchloroethylene)	EPA 8260D	ND		µg/kg	36.9	1	08/18/25 12:37	08/18/25 12:29
Toluene	EPA 8260D	ND		µg/kg	36.9	1	08/18/25 12:37	08/18/25 12:29
Total Xylene	EPA 8260D	ND		µg/kg	111	1	08/18/25 12:37	08/18/25 12:29
trans-1,2-Dichloroethylene	EPA 8260D	ND		µg/kg	36.9	1	08/18/25 12:37	08/18/25 12:29
trans-1,3-Dichloropropylene	EPA 8260D	ND		µg/kg	36.9	1	08/18/25 12:37	08/18/25 12:29
Trichloroethene (Trichloroethylene)	EPA 8260D	ND		µg/kg	36.9	1	08/18/25 12:37	08/18/25 12:29
Trichlorofluoromethane (Fluorotrichloromethane, Freon 11)	EPA 8260D	ND		µg/kg	36.9	1	08/18/25 12:37	08/18/25 12:29
Vinyl chloride (Chloroethene)	EPA 8260D	ND		µg/kg	36.9	1	08/18/25 12:37	08/18/25 12:29
Surr: 1,2-Dichloroethane-d4	EPA 8260D	94.4		%REC	80-120	1	08/18/25 12:37	08/18/25 12:29
Surr: 4-Bromofluorobenzene	EPA 8260D	97.8		%REC	80-120	1	08/18/25 12:37	08/18/25 12:29
Surr: Dibromofluoromethane	EPA 8260D	80.4		%REC	80-120	1	08/18/25 12:37	08/18/25 12:29
Surr: Toluene-d8	EPA 8260D	97.3		%REC	80-120	1	08/18/25 12:37	08/18/25 12:29

Analytical Report



Client: The Mannik & Smith Group, Inc.
Project: 13800_Tacoma
Matrix: SOIL/SOLID

Work Order: HN2511283
Date Collected: 08/11/25 11:20
Date Received: 08/12/25 08:00

CLIENT ID: 13800 SB02 (3-4) **Lab ID: HN2511283-002**

Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
General Chemistry Parameters								
Percent Moisture	EPA 3550C	9.5		%	0.1	1	08/13/25 16:53	NA
Chloride	EPA 9056A	ND		mg/kg	11.0	1	08/14/25 17:42	08/14/25 11:50
Metals								
Arsenic	EPA 6020B	4.26		mg/kg	0.327	1	08/16/25 03:43	08/15/25 08:37
Barium	EPA 6020B	51.3		mg/kg	0.327	1	08/16/25 03:43	08/15/25 08:37
Cadmium	EPA 6020B	0.191		mg/kg	0.131	1	08/16/25 03:43	08/15/25 08:37
Chromium	EPA 6020B	12.5		mg/kg	0.327	1	08/16/25 03:43	08/15/25 08:37
Copper	EPA 6020B	9.23		mg/kg	0.327	1	08/16/25 03:43	08/15/25 08:37
Lead	EPA 6020B	21.6		mg/kg	0.327	1	08/16/25 03:43	08/15/25 08:37
Selenium	EPA 6020B	ND		mg/kg	0.327	1	08/16/25 03:43	08/15/25 08:37
Silver	EPA 6020B	ND		mg/kg	0.327	1	08/16/25 03:43	08/15/25 08:37
Zinc	EPA 6020B	92.4		mg/kg	0.654	1	08/16/25 03:43	08/15/25 08:37
Mercury	EPA 7471B	0.0651		mg/kg	0.0200	1	08/18/25 11:00	08/15/25 14:35
Subcontracted Parameters								
Subcontract Analysis	EPA 8081B	See attached.		-		1	09/02/25 14:57	NA
Subcontract Analysis	EPA 8082A	See attached.		-		1	09/02/25 14:57	NA
Subcontract Analysis	EPA 8151A	See attached.		-		1	09/02/25 14:57	NA
Subcontract Analysis	EPA 8270E	See attached.		-		1	09/02/25 14:57	NA
Volatile Organic Compounds by GC-MS								
1,1,1-Trichloroethane	EPA 8260D	ND		µg/kg	35.8	1	08/18/25 12:37	08/18/25 12:29
1,1,2,2-Tetrachloroethane	EPA 8260D	ND		µg/kg	35.8	1	08/18/25 12:37	08/18/25 12:29
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	EPA 8260D	ND		µg/kg	35.8	1	08/18/25 12:37	08/18/25 12:29
1,1,2-Trichloroethane	EPA 8260D	ND		µg/kg	35.8	1	08/18/25 12:37	08/18/25 12:29
1,1-Dichloroethane	EPA 8260D	ND		µg/kg	35.8	1	08/18/25 12:37	08/18/25 12:29
1,1-Dichloroethylene	EPA 8260D	ND		µg/kg	35.8	1	08/18/25 12:37	08/18/25 12:29
1,2,3-Trichlorobenzene	EPA 8260D	ND		µg/kg	119	1	08/18/25 12:37	08/18/25 12:29
1,2,3-Trichloropropane	EPA 8260D	ND		µg/kg	35.8	1	08/18/25 12:37	08/18/25 12:29
1,2,4-Trichlorobenzene	EPA 8260D	ND		µg/kg	119	1	08/18/25 12:37	08/18/25 12:29
1,2,4-Trimethylbenzene	EPA 8260D	ND		µg/kg	35.8	1	08/18/25 12:37	08/18/25 12:29
1,2-Dibromo-3-chloropropane (DBCP)	EPA 8260D	ND		µg/kg	119	1	08/18/25 12:37	08/18/25 12:29

Analytical Report



Client: The Mannik & Smith Group, Inc.
Project: 13800_Tacoma
Matrix: SOIL/SOLID

Work Order: HN2511283
Date Collected: 08/11/25 11:20
Date Received: 08/12/25 08:00

CLIENT ID: 13800 SB02 (3-4) **Lab ID: HN2511283-002**

Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
1,2-Dibromoethane (EDB, Ethylene dibromide)	EPA 8260D	ND		µg/kg	35.8	1	08/18/25 12:37	08/18/25 12:29
1,2-Dichlorobenzene (o-Dichlorobenzene)	EPA 8260D	ND		µg/kg	35.8	1	08/18/25 12:37	08/18/25 12:29
1,2-Dichloroethane (Ethylene dichloride)	EPA 8260D	ND		µg/kg	119	1	08/18/25 12:37	08/18/25 12:29
1,2-Dichloropropane	EPA 8260D	ND		µg/kg	35.8	1	08/18/25 12:37	08/18/25 12:29
1,3,5-Trimethylbenzene	EPA 8260D	ND		µg/kg	119	1	08/18/25 12:37	08/18/25 12:29
1,3-Dichlorobenzene (m-Dichlorobenzene)	EPA 8260D	ND		µg/kg	35.8	1	08/18/25 12:37	08/18/25 12:29
1,3-Dichloropropene	EPA 8260D	ND		µg/kg	71.7	1	08/18/25 12:37	08/18/25 12:29
1,4-Dichlorobenzene (p-Dichlorobenzene)	EPA 8260D	ND		µg/kg	35.8	1	08/18/25 12:37	08/18/25 12:29
2-Butanone (Methyl ethyl ketone, MEK)	EPA 8260D	ND		µg/kg	239	1	08/18/25 12:37	08/18/25 12:29
2-Hexanone	EPA 8260D	ND		µg/kg	35.8	1	08/18/25 12:37	08/18/25 12:29
4-Methyl-2-pentanone (MIBK)	EPA 8260D	ND		µg/kg	35.8	1	08/18/25 12:37	08/18/25 12:29
Acetone	EPA 8260D	ND		µg/kg	119	1	08/18/25 12:37	08/18/25 12:29
Benzene	EPA 8260D	ND		µg/kg	35.8	1	08/18/25 12:37	08/18/25 12:29
Bromochloromethane	EPA 8260D	ND		µg/kg	35.8	1	08/18/25 12:37	08/18/25 12:29
Bromodichloromethane	EPA 8260D	ND		µg/kg	35.8	1	08/18/25 12:37	08/18/25 12:29
Bromoform	EPA 8260D	ND		µg/kg	35.8	1	08/18/25 12:37	08/18/25 12:29
Carbon disulfide	EPA 8260D	ND		µg/kg	35.8	1	08/18/25 12:37	08/18/25 12:29
Carbon tetrachloride	EPA 8260D	ND		µg/kg	35.8	1	08/18/25 12:37	08/18/25 12:29
Chlorobenzene	EPA 8260D	ND		µg/kg	35.8	1	08/18/25 12:37	08/18/25 12:29
Chlorodibromomethane	EPA 8260D	ND		µg/kg	35.8	1	08/18/25 12:37	08/18/25 12:29
Chloroethane (Ethyl chloride)	EPA 8260D	ND		µg/kg	119	1	08/18/25 12:37	08/18/25 12:29
Chloroform	EPA 8260D	ND		µg/kg	35.8	1	08/18/25 12:37	08/18/25 12:29
cis & trans-1,2-Dichloroethene	EPA 8260D	ND		µg/kg	71.7	1	08/18/25 12:37	08/18/25 12:29
cis-1,2-Dichloroethylene	EPA 8260D	ND		µg/kg	35.8	1	08/18/25 12:37	08/18/25 12:29
cis-1,3-Dichloropropene	EPA 8260D	ND		µg/kg	35.8	1	08/18/25 12:37	08/18/25 12:29
Cyclohexane	EPA 8260D	ND		µg/kg	119	1	08/18/25 12:37	08/18/25 12:29
Dichlorodifluoromethane (Freon-12)	EPA 8260D	ND		µg/kg	119	1	08/18/25 12:37	08/18/25 12:29
Ethylbenzene	EPA 8260D	ND		µg/kg	35.8	1	08/18/25 12:37	08/18/25 12:29
Isopropylbenzene	EPA 8260D	ND		µg/kg	35.8	1	08/18/25 12:37	08/18/25 12:29

Analytical Report



Client: The Mannik & Smith Group, Inc.
Project: 13800_Tacoma
Matrix: SOIL/SOLID

Work Order: HN2511283
Date Collected: 08/11/25 11:20
Date Received: 08/12/25 08:00

CLIENT ID: 13800 SB02 (3-4)	Lab ID: HN2511283-002
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Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
m+p-Xylene	EPA 8260D	ND		µg/kg	71.7	1	08/18/25 12:37	08/18/25 12:29
Methyl acetate	EPA 8260D	ND		µg/kg	298	1	08/18/25 12:37	08/18/25 12:29
Methyl bromide (Bromomethane)	EPA 8260D	ND		µg/kg	119	1	08/18/25 12:37	08/18/25 12:29
Methyl chloride (Chloromethane)	EPA 8260D	ND		µg/kg	119	1	08/18/25 12:37	08/18/25 12:29
Methyl tert-butyl ether (MTBE)	EPA 8260D	ND		µg/kg	35.8	1	08/18/25 12:37	08/18/25 12:29
Methylcyclohexane	EPA 8260D	ND		µg/kg	35.8	1	08/18/25 12:37	08/18/25 12:29
Methylene chloride (Dichloromethane)	EPA 8260D	ND		µg/kg	298	1	08/18/25 12:37	08/18/25 12:29
o-Xylene	EPA 8260D	ND		µg/kg	35.8	1	08/18/25 12:37	08/18/25 12:29
Styrene	EPA 8260D	ND		µg/kg	35.8	1	08/18/25 12:37	08/18/25 12:29
Tetrachloroethylene (Perchloroethylene)	EPA 8260D	ND		µg/kg	35.8	1	08/18/25 12:37	08/18/25 12:29
Toluene	EPA 8260D	ND		µg/kg	35.8	1	08/18/25 12:37	08/18/25 12:29
Total Xylene	EPA 8260D	ND		µg/kg	107	1	08/18/25 12:37	08/18/25 12:29
trans-1,2-Dichloroethylene	EPA 8260D	ND		µg/kg	35.8	1	08/18/25 12:37	08/18/25 12:29
trans-1,3-Dichloropropylene	EPA 8260D	ND		µg/kg	35.8	1	08/18/25 12:37	08/18/25 12:29
Trichloroethene (Trichloroethylene)	EPA 8260D	ND		µg/kg	35.8	1	08/18/25 12:37	08/18/25 12:29
Trichlorofluoromethane (Fluorotrichloromethane, Freon 11)	EPA 8260D	ND		µg/kg	35.8	1	08/18/25 12:37	08/18/25 12:29
Vinyl chloride (Chloroethene)	EPA 8260D	ND		µg/kg	35.8	1	08/18/25 12:37	08/18/25 12:29
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>EPA 8260D</i>	94.8		%REC	80-120	1	08/18/25 12:37	08/18/25 12:29
<i>Surr: 4-Bromofluorobenzene</i>	<i>EPA 8260D</i>	97.2		%REC	80-120	1	08/18/25 12:37	08/18/25 12:29
<i>Surr: Dibromofluoromethane</i>	<i>EPA 8260D</i>	77.8	S	%REC	80-120	1	08/18/25 12:37	08/18/25 12:29
<i>Surr: Toluene-d8</i>	<i>EPA 8260D</i>	98.3		%REC	80-120	1	08/18/25 12:37	08/18/25 12:29

Analytical Report



Client: The Mannik & Smith Group, Inc.
Project: 13800_Tacoma
Matrix: SOIL/SOLID

Work Order: HN2511283
Date Collected: 08/11/25 11:35
Date Received: 08/12/25 08:00

CLIENT ID: 13800 SB03 (5-6)	Lab ID: HN2511283-003
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Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
General Chemistry Parameters								
Percent Moisture	EPA 3550C	17.0		%	0.1	1	08/13/25 16:53	NA
Chloride	EPA 9056A	ND		mg/kg	12.0	1	08/15/25 23:15	08/15/25 16:37
Metals								
Arsenic	EPA 6020B	5.92		mg/kg	0.353	1	08/16/25 03:48	08/15/25 08:37
Barium	EPA 6020B	59.6		mg/kg	0.353	1	08/16/25 03:48	08/15/25 08:37
Cadmium	EPA 6020B	ND		mg/kg	0.141	1	08/16/25 03:48	08/15/25 08:37
Chromium	EPA 6020B	14.0		mg/kg	0.353	1	08/16/25 03:48	08/15/25 08:37
Copper	EPA 6020B	10.4		mg/kg	0.353	1	08/16/25 03:48	08/15/25 08:37
Lead	EPA 6020B	19.4		mg/kg	0.353	1	08/16/25 03:48	08/15/25 08:37
Selenium	EPA 6020B	ND		mg/kg	0.353	1	08/16/25 03:48	08/15/25 08:37
Silver	EPA 6020B	ND		mg/kg	0.353	1	08/16/25 03:48	08/15/25 08:37
Zinc	EPA 6020B	54.6		mg/kg	0.706	1	08/16/25 03:48	08/15/25 08:37
Mercury	EPA 7471B	0.0226		mg/kg	0.0200	1	08/18/25 11:02	08/15/25 14:35
Subcontracted Parameters								
Subcontract Analysis	EPA 8081B	See attached.		-		1	09/02/25 14:57	NA
Subcontract Analysis	EPA 8082A	See attached.		-		1	09/02/25 14:57	NA
Subcontract Analysis	EPA 8151A	See attached.		-		1	09/02/25 14:57	NA
Subcontract Analysis	EPA 8270E	See attached.		-		1	09/02/25 14:57	NA
Volatile Organic Compounds by GC-MS								
1,1,1-Trichloroethane	EPA 8260D	ND		µg/kg	43.6	1	08/18/25 12:37	08/18/25 12:29
1,1,2,2-Tetrachloroethane	EPA 8260D	ND		µg/kg	43.6	1	08/18/25 12:37	08/18/25 12:29
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	EPA 8260D	ND		µg/kg	43.6	1	08/18/25 12:37	08/18/25 12:29
1,1,2-Trichloroethane	EPA 8260D	ND		µg/kg	43.6	1	08/18/25 12:37	08/18/25 12:29
1,1-Dichloroethane	EPA 8260D	ND		µg/kg	43.6	1	08/18/25 12:37	08/18/25 12:29
1,1-Dichloroethylene	EPA 8260D	ND		µg/kg	43.6	1	08/18/25 12:37	08/18/25 12:29
1,2,3-Trichlorobenzene	EPA 8260D	ND		µg/kg	145	1	08/18/25 12:37	08/18/25 12:29
1,2,3-Trichloropropane	EPA 8260D	ND		µg/kg	43.6	1	08/18/25 12:37	08/18/25 12:29
1,2,4-Trichlorobenzene	EPA 8260D	ND		µg/kg	145	1	08/18/25 12:37	08/18/25 12:29
1,2,4-Trimethylbenzene	EPA 8260D	ND		µg/kg	43.6	1	08/18/25 12:37	08/18/25 12:29
1,2-Dibromo-3-chloropropane (DBCP)	EPA 8260D	ND		µg/kg	145	1	08/18/25 12:37	08/18/25 12:29

Analytical Report



Client: The Mannik & Smith Group, Inc.
Project: 13800_Tacoma
Matrix: SOIL/SOLID

Work Order: HN2511283
Date Collected: 08/11/25 11:35
Date Received: 08/12/25 08:00

CLIENT ID: 13800 SB03 (5-6)

Lab ID: HN2511283-003

Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
1,2-Dibromoethane (EDB, Ethylene dibromide)	EPA 8260D	ND		µg/kg	43.6	1	08/18/25 12:37	08/18/25 12:29
1,2-Dichlorobenzene (o-Dichlorobenzene)	EPA 8260D	ND		µg/kg	43.6	1	08/18/25 12:37	08/18/25 12:29
1,2-Dichloroethane (Ethylene dichloride)	EPA 8260D	ND		µg/kg	145	1	08/18/25 12:37	08/18/25 12:29
1,2-Dichloropropane	EPA 8260D	ND		µg/kg	43.6	1	08/18/25 12:37	08/18/25 12:29
1,3,5-Trimethylbenzene	EPA 8260D	ND		µg/kg	145	1	08/18/25 12:37	08/18/25 12:29
1,3-Dichlorobenzene (m-Dichlorobenzene)	EPA 8260D	ND		µg/kg	43.6	1	08/18/25 12:37	08/18/25 12:29
1,3-Dichloropropene	EPA 8260D	ND		µg/kg	87.1	1	08/18/25 12:37	08/18/25 12:29
1,4-Dichlorobenzene (p-Dichlorobenzene)	EPA 8260D	ND		µg/kg	43.6	1	08/18/25 12:37	08/18/25 12:29
2-Butanone (Methyl ethyl ketone, MEK)	EPA 8260D	ND		µg/kg	290	1	08/18/25 12:37	08/18/25 12:29
2-Hexanone	EPA 8260D	ND		µg/kg	43.6	1	08/18/25 12:37	08/18/25 12:29
4-Methyl-2-pentanone (MIBK)	EPA 8260D	ND		µg/kg	43.6	1	08/18/25 12:37	08/18/25 12:29
Acetone	EPA 8260D	ND		µg/kg	145	1	08/18/25 12:37	08/18/25 12:29
Benzene	EPA 8260D	ND		µg/kg	43.6	1	08/18/25 12:37	08/18/25 12:29
Bromochloromethane	EPA 8260D	ND		µg/kg	43.6	1	08/18/25 12:37	08/18/25 12:29
Bromodichloromethane	EPA 8260D	ND		µg/kg	43.6	1	08/18/25 12:37	08/18/25 12:29
Bromoform	EPA 8260D	ND		µg/kg	43.6	1	08/18/25 12:37	08/18/25 12:29
Carbon disulfide	EPA 8260D	ND		µg/kg	43.6	1	08/18/25 12:37	08/18/25 12:29
Carbon tetrachloride	EPA 8260D	ND		µg/kg	43.6	1	08/18/25 12:37	08/18/25 12:29
Chlorobenzene	EPA 8260D	ND		µg/kg	43.6	1	08/18/25 12:37	08/18/25 12:29
Chlorodibromomethane	EPA 8260D	ND		µg/kg	43.6	1	08/18/25 12:37	08/18/25 12:29
Chloroethane (Ethyl chloride)	EPA 8260D	ND		µg/kg	145	1	08/18/25 12:37	08/18/25 12:29
Chloroform	EPA 8260D	ND		µg/kg	43.6	1	08/18/25 12:37	08/18/25 12:29
cis & trans-1,2-Dichloroethene	EPA 8260D	ND		µg/kg	87.1	1	08/18/25 12:37	08/18/25 12:29
cis-1,2-Dichloroethylene	EPA 8260D	ND		µg/kg	43.6	1	08/18/25 12:37	08/18/25 12:29
cis-1,3-Dichloropropene	EPA 8260D	ND		µg/kg	43.6	1	08/18/25 12:37	08/18/25 12:29
Cyclohexane	EPA 8260D	ND		µg/kg	145	1	08/18/25 12:37	08/18/25 12:29
Dichlorodifluoromethane (Freon-12)	EPA 8260D	ND		µg/kg	145	1	08/18/25 12:37	08/18/25 12:29
Ethylbenzene	EPA 8260D	ND		µg/kg	43.6	1	08/18/25 12:37	08/18/25 12:29
Isopropylbenzene	EPA 8260D	ND		µg/kg	43.6	1	08/18/25 12:37	08/18/25 12:29

Analytical Report



Client: The Mannik & Smith Group, Inc.
Project: 13800_Tacoma
Matrix: SOIL/SOLID

Work Order: HN2511283
Date Collected: 08/11/25 11:35
Date Received: 08/12/25 08:00

CLIENT ID: 13800 SB03 (5-6)	Lab ID: HN2511283-003
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Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
m+p-Xylene	EPA 8260D	ND		µg/kg	87.1	1	08/18/25 12:37	08/18/25 12:29
Methyl acetate	EPA 8260D	ND		µg/kg	363	1	08/18/25 12:37	08/18/25 12:29
Methyl bromide (Bromomethane)	EPA 8260D	ND		µg/kg	145	1	08/18/25 12:37	08/18/25 12:29
Methyl chloride (Chloromethane)	EPA 8260D	ND		µg/kg	145	1	08/18/25 12:37	08/18/25 12:29
Methyl tert-butyl ether (MTBE)	EPA 8260D	ND		µg/kg	43.6	1	08/18/25 12:37	08/18/25 12:29
Methylcyclohexane	EPA 8260D	ND		µg/kg	43.6	1	08/18/25 12:37	08/18/25 12:29
Methylene chloride (Dichloromethane)	EPA 8260D	ND		µg/kg	363	1	08/18/25 12:37	08/18/25 12:29
o-Xylene	EPA 8260D	ND		µg/kg	43.6	1	08/18/25 12:37	08/18/25 12:29
Styrene	EPA 8260D	ND		µg/kg	43.6	1	08/18/25 12:37	08/18/25 12:29
Tetrachloroethylene (Perchloroethylene)	EPA 8260D	ND		µg/kg	43.6	1	08/18/25 12:37	08/18/25 12:29
Toluene	EPA 8260D	ND		µg/kg	43.6	1	08/18/25 12:37	08/18/25 12:29
Total Xylene	EPA 8260D	ND		µg/kg	131	1	08/18/25 12:37	08/18/25 12:29
trans-1,2-Dichloroethylene	EPA 8260D	ND		µg/kg	43.6	1	08/18/25 12:37	08/18/25 12:29
trans-1,3-Dichloropropylene	EPA 8260D	ND		µg/kg	43.6	1	08/18/25 12:37	08/18/25 12:29
Trichloroethene (Trichloroethylene)	EPA 8260D	ND		µg/kg	43.6	1	08/18/25 12:37	08/18/25 12:29
Trichlorofluoromethane (Fluorotrichloromethane, Freon 11)	EPA 8260D	ND		µg/kg	43.6	1	08/18/25 12:37	08/18/25 12:29
Vinyl chloride (Chloroethene)	EPA 8260D	ND		µg/kg	43.6	1	08/18/25 12:37	08/18/25 12:29
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>EPA 8260D</i>	93.2		%REC	80-120	1	08/18/25 12:37	08/18/25 12:29
<i>Surr: 4-Bromofluorobenzene</i>	<i>EPA 8260D</i>	97.5		%REC	80-120	1	08/18/25 12:37	08/18/25 12:29
<i>Surr: Dibromofluoromethane</i>	<i>EPA 8260D</i>	75.8	S	%REC	80-120	1	08/18/25 12:37	08/18/25 12:29
<i>Surr: Toluene-d8</i>	<i>EPA 8260D</i>	98.4		%REC	80-120	1	08/18/25 12:37	08/18/25 12:29



September 02, 2025

Service Request No:R2510153

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

Laboratory Results for: 13800_Tacoma

Dear Bill,

Enclosed are the results of the sample(s) submitted to our laboratory August 20, 2025
For your reference, these analyses have been assigned our service request number **R2510153**.

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

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

Respectfully submitted,

ALS Group USA, Corp. dba ALS Environmental

Christopher Leavy
Project Manager

ADDRESS

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

PHONE +1 585 288 5380 | **FAX** +1 585 288 8475

ALS Group USA, Corp.
dba ALS Environmental



Narrative Documents

ALS Environmental—Rochester Laboratory

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

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

www.alsglobal.com



Client: ALS Environmental - US
Project: 13800_Tacoma
Sample Matrix: Soil

Service Request: R2510153
Date Received: 08/20/2025

CASE NARRATIVE

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

Sample Receipt:

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

Semivolatiles by GC/MS:

Method 8270E, 890799: The reporting limit is elevated for one or more analytes. The sample extract was diluted prior to instrumental analysis due to relatively high levels of non-target background components. The extract was highly colored and viscous, which indicated the need to perform a dilution prior to injection into the instrument. The result(s) are flagged to indicate the matrix interference.

Method 8270E, 08/25/2025: The upper control limit was exceeded for one or more analytes in the Continuing Calibration Verification (CCV). The field samples analyzed in this sequence did not contain the analyte(s) in question above the Method Reporting Limit (MRL). Since the exceedance equates to a potential high bias, the data quality was not significantly affected and no further corrective action was taken.

Method 8270E, 891027: The reporting limit is elevated for one or more analytes. The sample extract was diluted prior to instrumental analysis due to relatively high levels of non-target background components. The extract was highly colored and viscous, which indicated the need to perform a dilution prior to injection into the instrument. The result(s) are flagged to indicate the matrix interference.

Semivolatile GC:

Method 8081B, 08/25/2025: The control limits were exceeded for analytes in the Continuing Calibration Verification (CCV). The QC failure was most likely due to the composition of the sample(s) immediately preceding the failing CCV. In order to protect the integrity of the instrument, no further corrective action was taken. Results should be considered estimated.

Method 8082A, 08/25/2025: The control limit was exceeded for one or more surrogates in the Continuing Calibration Verification (CCV). The surrogates were within acceptance limits for the associated field samples. The data quality was not significantly affected and no further corrective action was taken.

General Chemistry:

No significant anomalies were noted with this analysis.

Total solid results provided from parent lab.

Report revised to report to MRL on 9/2/2025.

Approved by 

Date 08/28/2025

SAMPLE DETECTION SUMMARY

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

CLIENT ID: 13800 SB01 (1-2)	Lab ID: R2510153-001
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Analyte	Results	Flag	MDL	MRL	Units	Method
4,4'-DDD	14			2.8	ug/Kg	8081B
4,4'-DDE	44			2.8	ug/Kg	8081B
4,4'-DDT	14			2.8	ug/Kg	8081B
alpha-Chlordane	46			2.8	ug/Kg	8081B
gamma-Chlordane	19			2.8	ug/Kg	8081B
Total Solids	90.1				Percent	ALS SOP

CLIENT ID: 13800 SB02 (3-4)	Lab ID: R2510153-002
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Analyte	Results	Flag	MDL	MRL	Units	Method
4,4'-DDD	5.8			2.8	ug/Kg	8081B
4,4'-DDE	6.2			2.8	ug/Kg	8081B
4,4'-DDT	4.4	P		2.8	ug/Kg	8081B
alpha-Chlordane	5.1			2.8	ug/Kg	8081B
Aroclor 1248	76			53	ug/Kg	8082A
Dieldrin	3.4			2.8	ug/Kg	8081B
gamma-Chlordane	5.7			2.8	ug/Kg	8081B
Total Solids	90.5				Percent	ALS SOP

CLIENT ID: 13800 SB03 (5-6)	Lab ID: R2510153-003
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Analyte	Results	Flag	MDL	MRL	Units	Method
4,4'-DDE	14			3.1	ug/Kg	8081B
alpha-Chlordane	9.1			3.1	ug/Kg	8081B
gamma-Chlordane	4.4			3.1	ug/Kg	8081B
Total Solids	83.0				Percent	ALS SOP



Sample Receipt Information

ALS Environmental—Rochester Laboratory

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

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

www.alsglobal.com

Client: ALS Environmental - US
Project: 13800_Tacoma

Service Request:R2510153

SAMPLE CROSS-REFERENCE

<u>SAMPLE #</u>	<u>CLIENT SAMPLE ID</u>	<u>DATE</u>	<u>TIME</u>
R2510153-001	13800 SB01 (1-2)	8/11/2025	1111
R2510153-002	13800 SB02 (3-4)	8/11/2025	1120
R2510153-003	13800 SB03 (5-6)	8/11/2025	1135

ALS Group USA, Corp.

3352 128th Ave Holland Michigan 49424 United States
T+1 616 399 6070 | F



right solutions.
right partner.

Subcontract Chain of Custody

SAMPLING STATE:

COC ID: HN2511283

Subcontract To: Rochester - Environmental TEL: +1 585 288 5380 1565 Jefferson Road, Building 300, Suite 360 FAX: Rochester New York 14623	Due Date: 08/21/2025 Analysis Report Format: ALS Standard – Level II Electronic Data Deliverable:
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Customer Information		Project Information		Parameter/Method Request for Analysis						
Purchase Order		Project Name	13800_Tacoma	A	EPA 8081B-3546-S (INT SUB)					
Work Order	HN2511283			B	EPA 8082A-3546-S (INT SUB)					
Company Name	Holland - Environmental	Bill To Company	Holland - Environmental	C	EPA 8151A-S (INT SUB)					
Send Report To	Bill Carey	Inv Attn	Accounts Payable	D	EPA 8270E-TCL-3546-S (INT SUB)					
Address	3352 128th Ave	Address	3352 128th Ave	E						
				F						
City/State/Zip	Holland Michigan 49424	City/State/Zip	Holland Michigan 49424	G						
Phone	+1 616 399 6070	Phone	+1 616 399 6070	H						
Fax		Fax		I						
Email Address	bill.carey@alsglobal.com			J						

ALS Sample ID	Client Sample ID	Matrix	Collection Date	Bottle	A	B	C	D	E	F	G	H	I	J
HN2511283-001	13800 SB01 (1-2)	Soil/Solid	08/11/2025 11:11	001-AD	x	x	x	x						
HN2511283-002	13800 SB02 (3-4)	Soil/Solid	08/11/2025 11:20	002-AD	x	x	x	x						
HN2511283-003	13800 SB03 (5-6)	Soil/Solid	08/11/2025 11:35	003-AD	x	x	x	x						

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

R2510153 5

ALS Environmental - Holland
13800_Tacoma





Cooler Receipt and Preservation Check Form

R2510153

ALS Environmental - Holland
13800_Tacoma

5



Project/Client _____ Folder Number _____

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

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

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

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

Temp (°C)	<u>4.7</u>	<u>4.5</u>	<u>5.5</u>				
Within 0-6°C?	<u>Y</u> N	<u>Y</u> N	<u>Y</u> N	Y N	Y N	Y N	Y N
If <0°C, were samples frozen?	Y N	Y N	Y N	Y N	Y N	Y N	Y N

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

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

All samples held in storage location: SMO by RM on 8/20 at 12:16
5035 samples placed in storage location: _____ by _____ on _____ at _____ within 48 hours of sampling? Y NCooler Breakdown/Preservation Check**: Date: 8/20/25 Time: 15:06 by: MM

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

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

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

Bottle lot numbers: 002325-1SR

Explain all Discrepancies/ Other Comments:

HPROD	BULK
HTR	FLDT
SUB	HGFB
ALS	LL3541

Labels secondary reviewed by: MM

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



Miscellaneous Forms

ALS Environmental—Rochester Laboratory

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

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

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REPORT QUALIFIERS AND DEFINITIONS

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

Rochester Lab ID # for State Accreditations¹



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

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

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

ALS Laboratory Group

Acronyms

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

Client: ALS Environmental - US
Project: 13800_Tacoma

Service Request: R2510153

Non-Certified Analytes

Certifying Agency: New York Department of Health

Method	Matrix	Analyte
8270E	Soil	1-Methylnaphthalene
8270E	Soil	Methylphenols, Total
ALS SOP	Soil	Total Solids

ALS Group USA, Corp.
dba ALS Environmental

Analyst Summary report

Client: ALS Environmental - US
Project: 13800_Tacoma/

Service Request: R2510153

Sample Name: 13800 SB01 (1-2)
Lab Code: R2510153-001
Sample Matrix: Soil

Date Collected: 08/11/25
Date Received: 08/20/25

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

Sample Name: 13800 SB02 (3-4)
Lab Code: R2510153-002
Sample Matrix: Soil

Date Collected: 08/11/25
Date Received: 08/20/25

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

Sample Name: 13800 SB03 (5-6)
Lab Code: R2510153-003
Sample Matrix: Soil

Date Collected: 08/11/25
Date Received: 08/20/25

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



PREPARATION METHODS

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

INORGANIC

Water/Liquid Matrix

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

Solid/Soil/Non-Aqueous Matrix

Analytical Method	Preparation Method
6010C or 6010D	3050B
6020A or 6020B	3050B
6010C or 6010D TCLP (1311) extract	3005A/3010A
6010C or 6010D SPLP (1312) extract	3005A/3010A
7199	3060A
300.0 Anions/ 350.1/ 353.2/ SM 2320B/ SM 5210B/ 9056A Anions	DI extraction
For analytical methods not listed, the preparation method is the same as the analytical method reference.	

ORGANIC

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

Regarding "Bulk/5035A":

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



Sample Results

ALS Environmental—Rochester Laboratory

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Semivolatile Organic Compounds by GC/MS

ALS Environmental—Rochester Laboratory

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www.alsglobal.com

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: ALS Environmental - US
Project: 13800_Tacoma
Sample Matrix: Soil

Service Request: R2510153
Date Collected: 08/11/25 11:11
Date Received: 08/20/25 09:30

Sample Name: 13800 SB01 (1-2)
Lab Code: R2510153-001

Units:
Basis: Dry

Semivolatile Organic Compounds by GC/MS using Microwave Digestion

Analysis Method: 8270E
Prep Method: EPA 3546

Analyte Name	Result	MRL	Dil.	Date Analyzed	Date Extracted	Q
Methylphenols, Total	U	-	10	08/25/25 10:38	8/21/25	
1,2,4,5-Tetrachlorobenzene	3700 U	3700	10	08/25/25 10:38	8/21/25	
1-Methylnaphthalene	3700 U	3700	10	08/25/25 10:38	8/21/25	
2-Methylnaphthalene	3700 U	3700	10	08/25/25 10:38	8/21/25	
Acenaphthene	3700 U	3700	10	08/25/25 10:38	8/21/25	
Acenaphthylene	3700 U	3700	10	08/25/25 10:38	8/21/25	
Anthracene	3700 U	3700	10	08/25/25 10:38	8/21/25	
Benz(a)anthracene	3700 U	3700	10	08/25/25 10:38	8/21/25	
Benzo(a)pyrene	3700 U	3700	10	08/25/25 10:38	8/21/25	
Benzo(b)fluoranthene	3700 U	3700	10	08/25/25 10:38	8/21/25	
Benzo(g,h,i)perylene	3700 U	3700	10	08/25/25 10:38	8/21/25	
1,4-Dichlorobenzene	3700 U	3700	10	08/25/25 10:38	8/21/25	
Benzo(k)fluoranthene	3700 U	3700	10	08/25/25 10:38	8/21/25	
Biphenyl	3700 U	3700	10	08/25/25 10:38	8/21/25	
Chrysene	3700 U	3700	10	08/25/25 10:38	8/21/25	
1,4-Dioxane	740 U	740	10	08/25/25 10:38	8/21/25	
Dibenz(a,h)anthracene	3700 U	3700	10	08/25/25 10:38	8/21/25	
Dibenzofuran	3700 U	3700	10	08/25/25 10:38	8/21/25	
Fluoranthene	3700 U	3700	10	08/25/25 10:38	8/21/25	
Fluorene	3700 U	3700	10	08/25/25 10:38	8/21/25	
Indeno(1,2,3-cd)pyrene	3700 U	3700	10	08/25/25 10:38	8/21/25	
Naphthalene	3700 U	3700	10	08/25/25 10:38	8/21/25	
Phenanthrene	3700 U	3700	10	08/25/25 10:38	8/21/25	
Pyrene	3700 U	3700	10	08/25/25 10:38	8/21/25	
2,3,4,6-Tetrachlorophenol	3700 U	3700	10	08/25/25 10:38	8/21/25	
2,4,5-Trichlorophenol	3700 U	3700	10	08/25/25 10:38	8/21/25	
2,4,6-Trichlorophenol	3700 U	3700	10	08/25/25 10:38	8/21/25	
2,4-Dichlorophenol	3700 U	3700	10	08/25/25 10:38	8/21/25	
2,4-Dimethylphenol	3700 U	3700	10	08/25/25 10:38	8/21/25	
2,4-Dinitrophenol	19000 U	19000	10	08/25/25 10:38	8/21/25	
2,4-Dinitrotoluene	3700 U	3700	10	08/25/25 10:38	8/21/25	
2,6-Dinitrotoluene	3700 U	3700	10	08/25/25 10:38	8/21/25	
2-Chloronaphthalene	3700 U	3700	10	08/25/25 10:38	8/21/25	
2-Chlorophenol	3700 U	3700	10	08/25/25 10:38	8/21/25	
2-Methylphenol	3700 U	3700	10	08/25/25 10:38	8/21/25	
2-Nitroaniline	19000 U	19000	10	08/25/25 10:38	8/21/25	
2-Nitrophenol	3700 U	3700	10	08/25/25 10:38	8/21/25	
3,3'-Dichlorobenzidine	3700 U	3700	10	08/25/25 10:38	8/21/25	
3- and 4-Methylphenol Coelution	3700 U	3700	10	08/25/25 10:38	8/21/25	
3-Nitroaniline	19000 U	19000	10	08/25/25 10:38	8/21/25	
4,6-Dinitro-2-methylphenol	19000 U	19000	10	08/25/25 10:38	8/21/25	
4-Bromophenyl Phenyl Ether	3700 U	3700	10	08/25/25 10:38	8/21/25	
4-Chloro-3-methylphenol	3700 U	3700	10	08/25/25 10:38	8/21/25	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: ALS Environmental - US
Project: 13800_Tacoma
Sample Matrix: Soil

Service Request: R2510153
Date Collected: 08/11/25 11:11
Date Received: 08/20/25 09:30

Sample Name: 13800 SB01 (1-2)
Lab Code: R2510153-001

Units:
Basis: Dry

Semivolatile Organic Compounds by GC/MS using Microwave Digestion

Analysis Method: 8270E
Prep Method: EPA 3546

Analyte Name	Result	MRL	Dil.	Date Analyzed	Date Extracted	Q
4-Chloroaniline	3700 U	3700	10	08/25/25 10:38	8/21/25	
4-Chlorophenyl Phenyl Ether	3700 U	3700	10	08/25/25 10:38	8/21/25	
4-Nitroaniline	19000 U	19000	10	08/25/25 10:38	8/21/25	
4-Nitrophenol	19000 U	19000	10	08/25/25 10:38	8/21/25	
Acetophenone	3700 U	3700	10	08/25/25 10:38	8/21/25	
Atrazine	3700 U	3700	10	08/25/25 10:38	8/21/25	
Benzaldehyde	19000 U	19000	10	08/25/25 10:38	8/21/25	
Benzoic Acid	19000 U	19000	10	08/25/25 10:38	8/21/25	
Bis(1-chloroisopropyl) Ether	3700 U	3700	10	08/25/25 10:38	8/21/25	
Bis(2-chloroethoxy)methane	3700 U	3700	10	08/25/25 10:38	8/21/25	
Bis(2-chloroethyl) Ether	3700 U	3700	10	08/25/25 10:38	8/21/25	
Bis(2-ethylhexyl) Phthalate	5500 U	5500	10	08/25/25 10:38	8/21/25	
Butyl Benzyl Phthalate	3700 U	3700	10	08/25/25 10:38	8/21/25	
Caprolactam	3700 U	3700	10	08/25/25 10:38	8/21/25	
Carbazole	3700 U	3700	10	08/25/25 10:38	8/21/25	
Di-n-butyl Phthalate	3700 U	3700	10	08/25/25 10:38	8/21/25	
Di-n-octyl Phthalate	3700 U	3700	10	08/25/25 10:38	8/21/25	
Diethyl Phthalate	3700 U	3700	10	08/25/25 10:38	8/21/25	
Dimethyl Phthalate	3700 U	3700	10	08/25/25 10:38	8/21/25	
Hexachlorobenzene	3700 U	3700	10	08/25/25 10:38	8/21/25	
Hexachlorobutadiene	3700 U	3700	10	08/25/25 10:38	8/21/25	
Hexachlorocyclopentadiene	3700 U	3700	10	08/25/25 10:38	8/21/25	
Hexachloroethane	3700 U	3700	10	08/25/25 10:38	8/21/25	
Isophorone	3700 U	3700	10	08/25/25 10:38	8/21/25	
N-Nitrosodi-n-propylamine	3700 U	3700	10	08/25/25 10:38	8/21/25	
N-Nitrosodiphenylamine	3700 U	3700	10	08/25/25 10:38	8/21/25	
Nitrobenzene	3700 U	3700	10	08/25/25 10:38	8/21/25	
Pentachlorophenol (PCP)	19000 U	19000	10	08/25/25 10:38	8/21/25	
Phenol	3700 U	3700	10	08/25/25 10:38	8/21/25	
Pyridine	19000 U	19000	10	08/25/25 10:38	8/21/25	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2-Fluorobiphenyl	70	18 - 104	08/25/25 10:38	
Nitrobenzene-d5	70	12 - 98	08/25/25 10:38	
p-Terphenyl-d14	83	26 - 134	08/25/25 10:38	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: ALS Environmental - US
Project: 13800_Tacoma
Sample Matrix: Soil

Service Request: R2510153
Date Collected: 08/11/25 11:20
Date Received: 08/20/25 09:30

Sample Name: 13800 SB02 (3-4)
Lab Code: R2510153-002

Units:
Basis: Dry

Semivolatile Organic Compounds by GC/MS using Microwave Digestion

Analysis Method: 8270E
Prep Method: EPA 3546

Analyte Name	Result	MRL	Dil.	Date Analyzed	Date Extracted	Q
Methylphenols, Total	U	-	5	08/21/25 16:35	8/21/25	
1-Methylnaphthalene	1800 U	1800	5	08/21/25 16:35	8/21/25	
1,2,4,5-Tetrachlorobenzene	1800 U	1800	5	08/21/25 16:35	8/21/25	
2-Methylnaphthalene	1800 U	1800	5	08/21/25 16:35	8/21/25	
Acenaphthene	1800 U	1800	5	08/21/25 16:35	8/21/25	
Acenaphthylene	1800 U	1800	5	08/21/25 16:35	8/21/25	
Anthracene	1800 U	1800	5	08/21/25 16:35	8/21/25	
Benz(a)anthracene	1800 U	1800	5	08/21/25 16:35	8/21/25	
Benzo(a)pyrene	1800 U	1800	5	08/21/25 16:35	8/21/25	
Benzo(b)fluoranthene	1800 U	1800	5	08/21/25 16:35	8/21/25	
Benzo(g,h,i)perylene	1800 U	1800	5	08/21/25 16:35	8/21/25	
Benzo(k)fluoranthene	1800 U	1800	5	08/21/25 16:35	8/21/25	
1,4-Dichlorobenzene	1800 U	1800	5	08/21/25 16:35	8/21/25	
Biphenyl	1800 U	1800	5	08/21/25 16:35	8/21/25	
Chrysene	1800 U	1800	5	08/21/25 16:35	8/21/25	
Dibenz(a,h)anthracene	1800 U	1800	5	08/21/25 16:35	8/21/25	
1,4-Dioxane	370 U	370	5	08/21/25 16:35	8/21/25	
Dibenzofuran	1800 U	1800	5	08/21/25 16:35	8/21/25	
Fluoranthene	1800 U	1800	5	08/21/25 16:35	8/21/25	
Fluorene	1800 U	1800	5	08/21/25 16:35	8/21/25	
Indeno(1,2,3-cd)pyrene	1800 U	1800	5	08/21/25 16:35	8/21/25	
Naphthalene	1800 U	1800	5	08/21/25 16:35	8/21/25	
Phenanthrene	1800 U	1800	5	08/21/25 16:35	8/21/25	
Pyrene	1800 U	1800	5	08/21/25 16:35	8/21/25	
2,3,4,6-Tetrachlorophenol	1800 U	1800	5	08/21/25 16:35	8/21/25	
2,4,5-Trichlorophenol	1800 U	1800	5	08/21/25 16:35	8/21/25	
2,4,6-Trichlorophenol	1800 U	1800	5	08/21/25 16:35	8/21/25	
2,4-Dichlorophenol	1800 U	1800	5	08/21/25 16:35	8/21/25	
2,4-Dimethylphenol	1800 U	1800	5	08/21/25 16:35	8/21/25	
2,4-Dinitrophenol	9300 U	9300	5	08/21/25 16:35	8/21/25	
2,4-Dinitrotoluene	1800 U	1800	5	08/21/25 16:35	8/21/25	
2,6-Dinitrotoluene	1800 U	1800	5	08/21/25 16:35	8/21/25	
2-Chloronaphthalene	1800 U	1800	5	08/21/25 16:35	8/21/25	
2-Chlorophenol	1800 U	1800	5	08/21/25 16:35	8/21/25	
2-Methylphenol	1800 U	1800	5	08/21/25 16:35	8/21/25	
2-Nitroaniline	9300 U	9300	5	08/21/25 16:35	8/21/25	
2-Nitrophenol	1800 U	1800	5	08/21/25 16:35	8/21/25	
3,3'-Dichlorobenzidine	1800 U	1800	5	08/21/25 16:35	8/21/25	
3- and 4-Methylphenol Coelution	1800 U	1800	5	08/21/25 16:35	8/21/25	
3-Nitroaniline	9300 U	9300	5	08/21/25 16:35	8/21/25	
4,6-Dinitro-2-methylphenol	9300 U	9300	5	08/21/25 16:35	8/21/25	
4-Bromophenyl Phenyl Ether	1800 U	1800	5	08/21/25 16:35	8/21/25	
4-Chloro-3-methylphenol	1800 U	1800	5	08/21/25 16:35	8/21/25	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: ALS Environmental - US
Project: 13800_Tacoma
Sample Matrix: Soil

Service Request: R2510153
Date Collected: 08/11/25 11:20
Date Received: 08/20/25 09:30

Sample Name: 13800 SB02 (3-4)
Lab Code: R2510153-002

Units:
Basis: Dry

Semivolatile Organic Compounds by GC/MS using Microwave Digestion

Analysis Method: 8270E
Prep Method: EPA 3546

Analyte Name	Result	MRL	Dil.	Date Analyzed	Date Extracted	Q
4-Chloroaniline	1800 U	1800	5	08/21/25 16:35	8/21/25	
4-Chlorophenyl Phenyl Ether	1800 U	1800	5	08/21/25 16:35	8/21/25	
4-Nitroaniline	9300 U	9300	5	08/21/25 16:35	8/21/25	
4-Nitrophenol	9300 U	9300	5	08/21/25 16:35	8/21/25	
Acetophenone	1800 U	1800	5	08/21/25 16:35	8/21/25	
Atrazine	1800 U	1800	5	08/21/25 16:35	8/21/25	
Benzaldehyde	9300 U	9300	5	08/21/25 16:35	8/21/25	
Benzoic Acid	9300 U	9300	5	08/21/25 16:35	8/21/25	
Bis(1-chloroisopropyl) Ether	1800 U	1800	5	08/21/25 16:35	8/21/25	
Bis(2-chloroethoxy)methane	1800 U	1800	5	08/21/25 16:35	8/21/25	
Bis(2-chloroethyl) Ether	1800 U	1800	5	08/21/25 16:35	8/21/25	
Bis(2-ethylhexyl) Phthalate	2700 U	2700	5	08/21/25 16:35	8/21/25	
Butyl Benzyl Phthalate	1800 U	1800	5	08/21/25 16:35	8/21/25	
Caprolactam	1800 U	1800	5	08/21/25 16:35	8/21/25	
Carbazole	1800 U	1800	5	08/21/25 16:35	8/21/25	
Di-n-butyl Phthalate	1800 U	1800	5	08/21/25 16:35	8/21/25	
Di-n-octyl Phthalate	1800 U	1800	5	08/21/25 16:35	8/21/25	
Diethyl Phthalate	1800 U	1800	5	08/21/25 16:35	8/21/25	
Dimethyl Phthalate	1800 U	1800	5	08/21/25 16:35	8/21/25	
Hexachlorobenzene	1800 U	1800	5	08/21/25 16:35	8/21/25	
Hexachlorobutadiene	1800 U	1800	5	08/21/25 16:35	8/21/25	
Hexachlorocyclopentadiene	1800 U	1800	5	08/21/25 16:35	8/21/25	
Hexachloroethane	1800 U	1800	5	08/21/25 16:35	8/21/25	
Isophorone	1800 U	1800	5	08/21/25 16:35	8/21/25	
N-Nitrosodi-n-propylamine	1800 U	1800	5	08/21/25 16:35	8/21/25	
N-Nitrosodiphenylamine	1800 U	1800	5	08/21/25 16:35	8/21/25	
Nitrobenzene	1800 U	1800	5	08/21/25 16:35	8/21/25	
Pentachlorophenol (PCP)	9300 U	9300	5	08/21/25 16:35	8/21/25	
Phenol	1800 U	1800	5	08/21/25 16:35	8/21/25	
Pyridine	9300 U	9300	5	08/21/25 16:35	8/21/25	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2-Fluorobiphenyl	62	18 - 104	08/21/25 16:35	
Nitrobenzene-d5	54	12 - 98	08/21/25 16:35	
p-Terphenyl-d14	74	26 - 134	08/21/25 16:35	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: ALS Environmental - US
Project: 13800_Tacoma
Sample Matrix: Soil

Service Request: R2510153
Date Collected: 08/11/25 11:35
Date Received: 08/20/25 09:30

Sample Name: 13800 SB03 (5-6)
Lab Code: R2510153-003

Units:
Basis: Dry

Semivolatile Organic Compounds by GC/MS using Microwave Digestion

Analysis Method: 8270E
Prep Method: EPA 3546

Analyte Name	Result	MRL	Dil.	Date Analyzed	Date Extracted	Q
Methylphenols, Total	U	-	1	08/21/25 16:59	8/21/25	
1,2,4,5-Tetrachlorobenzene	390 U	390	1	08/21/25 16:59	8/21/25	
1-Methylnaphthalene	390 U	390	1	08/21/25 16:59	8/21/25	
2-Methylnaphthalene	390 U	390	1	08/21/25 16:59	8/21/25	
Acenaphthene	390 U	390	1	08/21/25 16:59	8/21/25	
Acenaphthylene	390 U	390	1	08/21/25 16:59	8/21/25	
Anthracene	390 U	390	1	08/21/25 16:59	8/21/25	
Benz(a)anthracene	390 U	390	1	08/21/25 16:59	8/21/25	
Benzo(a)pyrene	390 U	390	1	08/21/25 16:59	8/21/25	
Benzo(b)fluoranthene	390 U	390	1	08/21/25 16:59	8/21/25	
Benzo(g,h,i)perylene	390 U	390	1	08/21/25 16:59	8/21/25	
1,4-Dichlorobenzene	390 U	390	1	08/21/25 16:59	8/21/25	
Benzo(k)fluoranthene	390 U	390	1	08/21/25 16:59	8/21/25	
Biphenyl	390 U	390	1	08/21/25 16:59	8/21/25	
Chrysene	390 U	390	1	08/21/25 16:59	8/21/25	
1,4-Dioxane	80 U	80	1	08/21/25 16:59	8/21/25	
Dibenz(a,h)anthracene	390 U	390	1	08/21/25 16:59	8/21/25	
Dibenzofuran	390 U	390	1	08/21/25 16:59	8/21/25	
Fluoranthene	390 U	390	1	08/21/25 16:59	8/21/25	
Fluorene	390 U	390	1	08/21/25 16:59	8/21/25	
Indeno(1,2,3-cd)pyrene	390 U	390	1	08/21/25 16:59	8/21/25	
Naphthalene	390 U	390	1	08/21/25 16:59	8/21/25	
Phenanthrene	390 U	390	1	08/21/25 16:59	8/21/25	
Pyrene	390 U	390	1	08/21/25 16:59	8/21/25	
2,3,4,6-Tetrachlorophenol	390 U	390	1	08/21/25 16:59	8/21/25	
2,4,5-Trichlorophenol	390 U	390	1	08/21/25 16:59	8/21/25	
2,4,6-Trichlorophenol	390 U	390	1	08/21/25 16:59	8/21/25	
2,4-Dichlorophenol	390 U	390	1	08/21/25 16:59	8/21/25	
2,4-Dimethylphenol	390 U	390	1	08/21/25 16:59	8/21/25	
2,4-Dinitrophenol	2000 U	2000	1	08/21/25 16:59	8/21/25	
2,4-Dinitrotoluene	390 U	390	1	08/21/25 16:59	8/21/25	
2,6-Dinitrotoluene	390 U	390	1	08/21/25 16:59	8/21/25	
2-Chloronaphthalene	390 U	390	1	08/21/25 16:59	8/21/25	
2-Chlorophenol	390 U	390	1	08/21/25 16:59	8/21/25	
2-Methylphenol	390 U	390	1	08/21/25 16:59	8/21/25	
2-Nitroaniline	2000 U	2000	1	08/21/25 16:59	8/21/25	
2-Nitrophenol	390 U	390	1	08/21/25 16:59	8/21/25	
3,3'-Dichlorobenzidine	390 U	390	1	08/21/25 16:59	8/21/25	
3- and 4-Methylphenol Coelution	390 U	390	1	08/21/25 16:59	8/21/25	
3-Nitroaniline	2000 U	2000	1	08/21/25 16:59	8/21/25	
4,6-Dinitro-2-methylphenol	2000 U	2000	1	08/21/25 16:59	8/21/25	
4-Bromophenyl Phenyl Ether	390 U	390	1	08/21/25 16:59	8/21/25	
4-Chloro-3-methylphenol	390 U	390	1	08/21/25 16:59	8/21/25	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: ALS Environmental - US
Project: 13800_Tacoma
Sample Matrix: Soil

Service Request: R2510153
Date Collected: 08/11/25 11:35
Date Received: 08/20/25 09:30

Sample Name: 13800 SB03 (5-6)
Lab Code: R2510153-003

Units:
Basis: Dry

Semivolatile Organic Compounds by GC/MS using Microwave Digestion

Analysis Method: 8270E
Prep Method: EPA 3546

Analyte Name	Result	MRL	Dil.	Date Analyzed	Date Extracted	Q
4-Chloroaniline	390 U	390	1	08/21/25 16:59	8/21/25	
4-Chlorophenyl Phenyl Ether	390 U	390	1	08/21/25 16:59	8/21/25	
4-Nitroaniline	2000 U	2000	1	08/21/25 16:59	8/21/25	
4-Nitrophenol	2000 U	2000	1	08/21/25 16:59	8/21/25	
Acetophenone	390 U	390	1	08/21/25 16:59	8/21/25	
Atrazine	390 U	390	1	08/21/25 16:59	8/21/25	
Benzaldehyde	2000 U	2000	1	08/21/25 16:59	8/21/25	
Benzoic Acid	2000 U	2000	1	08/21/25 16:59	8/21/25	
Bis(1-chloroisopropyl) Ether	390 U	390	1	08/21/25 16:59	8/21/25	
Bis(2-chloroethoxy)methane	390 U	390	1	08/21/25 16:59	8/21/25	
Bis(2-chloroethyl) Ether	390 U	390	1	08/21/25 16:59	8/21/25	
Bis(2-ethylhexyl) Phthalate	600 U	600	1	08/21/25 16:59	8/21/25	
Butyl Benzyl Phthalate	390 U	390	1	08/21/25 16:59	8/21/25	
Caprolactam	390 U	390	1	08/21/25 16:59	8/21/25	
Carbazole	390 U	390	1	08/21/25 16:59	8/21/25	
Di-n-butyl Phthalate	390 U	390	1	08/21/25 16:59	8/21/25	
Di-n-octyl Phthalate	390 U	390	1	08/21/25 16:59	8/21/25	
Diethyl Phthalate	390 U	390	1	08/21/25 16:59	8/21/25	
Dimethyl Phthalate	390 U	390	1	08/21/25 16:59	8/21/25	
Hexachlorobenzene	390 U	390	1	08/21/25 16:59	8/21/25	
Hexachlorobutadiene	390 U	390	1	08/21/25 16:59	8/21/25	
Hexachlorocyclopentadiene	390 U	390	1	08/21/25 16:59	8/21/25	
Hexachloroethane	390 U	390	1	08/21/25 16:59	8/21/25	
Isophorone	390 U	390	1	08/21/25 16:59	8/21/25	
N-Nitrosodi-n-propylamine	390 U	390	1	08/21/25 16:59	8/21/25	
N-Nitrosodiphenylamine	390 U	390	1	08/21/25 16:59	8/21/25	
Nitrobenzene	390 U	390	1	08/21/25 16:59	8/21/25	
Pentachlorophenol (PCP)	2000 U	2000	1	08/21/25 16:59	8/21/25	
Phenol	390 U	390	1	08/21/25 16:59	8/21/25	
Pyridine	2000 U	2000	1	08/21/25 16:59	8/21/25	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2-Fluorobiphenyl	58	18 - 104	08/21/25 16:59	
Nitrobenzene-d5	54	12 - 98	08/21/25 16:59	
p-Terphenyl-d14	72	26 - 134	08/21/25 16:59	



Semivolatile Organic Compounds by GC

ALS Environmental—Rochester Laboratory

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ALS Group USA, Corp.
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Analytical Report

Client: ALS Environmental - US
Project: 13800_Tacoma
Sample Matrix: Soil

Service Request: R2510153
Date Collected: 08/11/25 11:11
Date Received: 08/20/25 09:30

Sample Name: 13800 SB01 (1-2)
Lab Code: R2510153-001

Units: ug/Kg
Basis: Dry

Organochlorine Pesticides by Gas Chromatography using Microwave Extraction

Analysis Method: 8081B
Prep Method: EPA 3546

Analyte Name	Result	MRL	Dil.	Date Analyzed	Date Extracted	Q
4,4'-DDD	14	2.8	1	08/25/25 14:28	8/21/25	
4,4'-DDE	44	2.8	1	08/25/25 14:28	8/21/25	
4,4'-DDT	14	2.8	1	08/25/25 14:28	8/21/25	
Aldrin	2.8 U	2.8	1	08/25/25 14:28	8/21/25	
Chlordane	14 U	14	1	08/25/25 14:28	8/21/25	
Dieldrin	2.8 U	2.8	1	08/25/25 14:28	8/21/25	
Endosulfan I	2.8 U	2.8	1	08/25/25 14:28	8/21/25	
Endosulfan II	2.8 U	2.8	1	08/25/25 14:28	8/21/25	
Endosulfan Sulfate	2.8 U	2.8	1	08/25/25 14:28	8/21/25	
Endrin	2.8 U	2.8	1	08/25/25 14:28	8/21/25	
Endrin Aldehyde	2.8 U	2.8	1	08/25/25 14:28	8/21/25	
Endrin Ketone	2.8 U	2.8	1	08/25/25 14:28	8/21/25	
Heptachlor	2.8 U	2.8	1	08/25/25 14:28	8/21/25	
Heptachlor Epoxide	2.8 U	2.8	1	08/25/25 14:28	8/21/25	
Methoxychlor	2.8 U	2.8	1	08/25/25 14:28	8/21/25	
Toxaphene	54 U	54	1	08/25/25 14:28	8/21/25	
alpha-BHC	2.8 U	2.8	1	08/25/25 14:28	8/21/25	
alpha-Chlordane	46	2.8	1	08/25/25 14:28	8/21/25	
beta-BHC	2.8 U	2.8	1	08/25/25 14:28	8/21/25	
delta-BHC	2.8 U	2.8	1	08/25/25 14:28	8/21/25	
gamma-BHC (Lindane)	2.8 U	2.8	1	08/25/25 14:28	8/21/25	
gamma-Chlordane	19	2.8	1	08/25/25 14:28	8/21/25	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	49	10 - 159	08/25/25 14:28	
Tetrachloro-m-xylene	52	10 - 132	08/25/25 14:28	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: ALS Environmental - US
Project: 13800_Tacoma
Sample Matrix: Soil

Service Request: R2510153
Date Collected: 08/11/25 11:20
Date Received: 08/20/25 09:30

Sample Name: 13800 SB02 (3-4)
Lab Code: R2510153-002

Units: ug/Kg
Basis: Dry

Organochlorine Pesticides by Gas Chromatography using Microwave Extraction

Analysis Method: 8081B
Prep Method: EPA 3546

Analyte Name	Result	MRL	Dil.	Date Analyzed	Date Extracted	Q
4,4'-DDD	5.8	2.8	1	08/25/25 14:46	8/21/25	
4,4'-DDE	6.2	2.8	1	08/25/25 14:46	8/21/25	
4,4'-DDT	4.4 P	2.8	1	08/25/25 14:46	8/21/25	
Aldrin	2.8 U	2.8	1	08/25/25 14:46	8/21/25	
Chlordane	13 U	13	1	08/25/25 14:46	8/21/25	
Dieldrin	3.4	2.8	1	08/25/25 14:46	8/21/25	
Endosulfan I	2.8 U	2.8	1	08/25/25 14:46	8/21/25	
Endosulfan II	2.8 U	2.8	1	08/25/25 14:46	8/21/25	
Endosulfan Sulfate	2.8 U	2.8	1	08/25/25 14:46	8/21/25	
Endrin	2.8 U	2.8	1	08/25/25 14:46	8/21/25	
Endrin Aldehyde	2.8 U	2.8	1	08/25/25 14:46	8/21/25	
Endrin Ketone	2.8 U	2.8	1	08/25/25 14:46	8/21/25	
Heptachlor	2.8 U	2.8	1	08/25/25 14:46	8/21/25	
Heptachlor Epoxide	2.8 U	2.8	1	08/25/25 14:46	8/21/25	
Methoxychlor	2.8 U	2.8	1	08/25/25 14:46	8/21/25	
Toxaphene	53 U	53	1	08/25/25 14:46	8/21/25	
alpha-BHC	2.8 U	2.8	1	08/25/25 14:46	8/21/25	
alpha-Chlordane	5.1	2.8	1	08/25/25 14:46	8/21/25	
beta-BHC	2.8 U	2.8	1	08/25/25 14:46	8/21/25	
delta-BHC	2.8 U	2.8	1	08/25/25 14:46	8/21/25	
gamma-BHC (Lindane)	2.8 U	2.8	1	08/25/25 14:46	8/21/25	
gamma-Chlordane	5.7	2.8	1	08/25/25 14:46	8/21/25	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	44	10 - 159	08/25/25 14:46	
Tetrachloro-m-xylene	53	10 - 132	08/25/25 14:46	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: ALS Environmental - US
Project: 13800_Tacoma
Sample Matrix: Soil

Service Request: R2510153
Date Collected: 08/11/25 11:35
Date Received: 08/20/25 09:30

Sample Name: 13800 SB03 (5-6)
Lab Code: R2510153-003

Units: ug/Kg
Basis: Dry

Organochlorine Pesticides by Gas Chromatography using Microwave Extraction

Analysis Method: 8081B
Prep Method: EPA 3546

Analyte Name	Result	MRL	Dil.	Date Analyzed	Date Extracted	Q
4,4'-DDD	3.1 U	3.1	1	08/25/25 15:03	8/21/25	
4,4'-DDE	14	3.1	1	08/25/25 15:03	8/21/25	
4,4'-DDT	3.1 U	3.1	1	08/25/25 15:03	8/21/25	
Aldrin	3.1 U	3.1	1	08/25/25 15:03	8/21/25	
Chlordane	15 U	15	1	08/25/25 15:03	8/21/25	
Dieldrin	3.1 U	3.1	1	08/25/25 15:03	8/21/25	
Endosulfan I	3.1 U	3.1	1	08/25/25 15:03	8/21/25	
Endosulfan II	3.1 U	3.1	1	08/25/25 15:03	8/21/25	
Endosulfan Sulfate	3.1 U	3.1	1	08/25/25 15:03	8/21/25	
Endrin	3.1 U	3.1	1	08/25/25 15:03	8/21/25	
Endrin Aldehyde	3.1 U	3.1	1	08/25/25 15:03	8/21/25	
Endrin Ketone	3.1 U	3.1	1	08/25/25 15:03	8/21/25	
Heptachlor	3.1 U	3.1	1	08/25/25 15:03	8/21/25	
Heptachlor Epoxide	3.1 U	3.1	1	08/25/25 15:03	8/21/25	
Methoxychlor	3.1 U	3.1	1	08/25/25 15:03	8/21/25	
Toxaphene	59 U	59	1	08/25/25 15:03	8/21/25	
alpha-BHC	3.1 U	3.1	1	08/25/25 15:03	8/21/25	
alpha-Chlordane	9.1	3.1	1	08/25/25 15:03	8/21/25	
beta-BHC	3.1 U	3.1	1	08/25/25 15:03	8/21/25	
delta-BHC	3.1 U	3.1	1	08/25/25 15:03	8/21/25	
gamma-BHC (Lindane)	3.1 U	3.1	1	08/25/25 15:03	8/21/25	
gamma-Chlordane	4.4	3.1	1	08/25/25 15:03	8/21/25	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	67	10 - 159	08/25/25 15:03	
Tetrachloro-m-xylene	58	10 - 132	08/25/25 15:03	

ALS Group USA, Corp.
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Analytical Report

Client: ALS Environmental - US
Project: 13800_Tacoma
Sample Matrix: Soil

Service Request: R2510153
Date Collected: 08/11/25 11:11
Date Received: 08/20/25 09:30

Sample Name: 13800 SB01 (1-2)
Lab Code: R2510153-001

Units: ug/Kg
Basis: Dry

Polychlorinated Biphenyls (PCBs) by GC using Microwave Extraction

Analysis Method: 8082A
Prep Method: EPA 3546

Analyte Name	Result	MRL	Dil.	Date Analyzed	Date Extracted	Q
Aroclor 1016	54 U	54	1	08/25/25 01:11	8/21/25	
Aroclor 1221	110 U	110	1	08/25/25 01:11	8/21/25	
Aroclor 1232	54 U	54	1	08/25/25 01:11	8/21/25	
Aroclor 1242	54 U	54	1	08/25/25 01:11	8/21/25	
Aroclor 1248	54 U	54	1	08/25/25 01:11	8/21/25	
Aroclor 1254	54 U	54	1	08/25/25 01:11	8/21/25	
Aroclor 1260	54 U	54	1	08/25/25 01:11	8/21/25	
Aroclor 1262	54 U	54	1	08/25/25 01:11	8/21/25	
Aroclor 1268	54 U	54	1	08/25/25 01:11	8/21/25	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	62	10 - 138	08/25/25 01:11	
Tetrachloro-m-xylene	52	11 - 122	08/25/25 01:11	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: ALS Environmental - US
Project: 13800_Tacoma
Sample Matrix: Soil

Service Request: R2510153
Date Collected: 08/11/25 11:20
Date Received: 08/20/25 09:30

Sample Name: 13800 SB02 (3-4)
Lab Code: R2510153-002

Units: ug/Kg
Basis: Dry

Polychlorinated Biphenyls (PCBs) by GC using Microwave Extraction

Analysis Method: 8082A
Prep Method: EPA 3546

Analyte Name	Result	MRL	Dil.	Date Analyzed	Date Extracted	Q
Aroclor 1016	53 U	53	1	08/25/25 01:24	8/21/25	
Aroclor 1221	110 U	110	1	08/25/25 01:24	8/21/25	
Aroclor 1232	53 U	53	1	08/25/25 01:24	8/21/25	
Aroclor 1242	53 U	53	1	08/25/25 01:24	8/21/25	
Aroclor 1248	76	53	1	08/25/25 01:24	8/21/25	
Aroclor 1254	53 U	53	1	08/25/25 01:24	8/21/25	
Aroclor 1260	53 U	53	1	08/25/25 01:24	8/21/25	
Aroclor 1262	53 U	53	1	08/25/25 01:24	8/21/25	
Aroclor 1268	53 U	53	1	08/25/25 01:24	8/21/25	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	55	10 - 138	08/25/25 01:24	
Tetrachloro-m-xylene	54	11 - 122	08/25/25 01:24	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: ALS Environmental - US
Project: 13800_Tacoma
Sample Matrix: Soil

Service Request: R2510153
Date Collected: 08/11/25 11:35
Date Received: 08/20/25 09:30

Sample Name: 13800 SB03 (5-6)
Lab Code: R2510153-003

Units: ug/Kg
Basis: Dry

Polychlorinated Biphenyls (PCBs) by GC using Microwave Extraction

Analysis Method: 8082A
Prep Method: EPA 3546

Analyte Name	Result	MRL	Dil.	Date Analyzed	Date Extracted	Q
Aroclor 1016	59 U	59	1	08/25/25 01:38	8/21/25	
Aroclor 1221	120 U	120	1	08/25/25 01:38	8/21/25	
Aroclor 1232	59 U	59	1	08/25/25 01:38	8/21/25	
Aroclor 1242	59 U	59	1	08/25/25 01:38	8/21/25	
Aroclor 1248	59 U	59	1	08/25/25 01:38	8/21/25	
Aroclor 1254	59 U	59	1	08/25/25 01:38	8/21/25	
Aroclor 1260	59 U	59	1	08/25/25 01:38	8/21/25	
Aroclor 1262	59 U	59	1	08/25/25 01:38	8/21/25	
Aroclor 1268	59 U	59	1	08/25/25 01:38	8/21/25	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	76	10 - 138	08/25/25 01:38	
Tetrachloro-m-xylene	54	11 - 122	08/25/25 01:38	

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Analytical Report

Client: ALS Environmental - US
Project: 13800_Tacoma
Sample Matrix: Soil

Sample Name: 13800 SB01 (1-2)
Lab Code: R2510153-001

Service Request: R2510153
Date Collected: 08/11/25 11:11
Date Received: 08/20/25 09:30

Units: ug/Kg
Basis: Dry

Chlorinated Herbicides by GC

Analysis Method: 8151A
Prep Method: Method

Analyte Name	Result	MRL	Dil.	Date Analyzed	Date Extracted	Q
2,4,5-T	11 U	11	1	08/26/25 21:06	8/22/25	
2,4,5-TP	11 U	11	1	08/26/25 21:06	8/22/25	
2,4-D	11 U	11	1	08/26/25 21:06	8/22/25	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
DCAA	67	10 - 151	08/26/25 21:06	

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Analytical Report

Client: ALS Environmental - US
Project: 13800_Tacoma
Sample Matrix: Soil

Service Request: R2510153
Date Collected: 08/11/25 11:20
Date Received: 08/20/25 09:30

Sample Name: 13800 SB02 (3-4)
Lab Code: R2510153-002
Units: ug/Kg
Basis: Dry

Chlorinated Herbicides by GC

Analysis Method: 8151A
Prep Method: Method

Analyte Name	Result	MRL	Dil.	Date Analyzed	Date Extracted	Q
2,4,5-T	11 U	11	1	08/26/25 22:01	8/22/25	
2,4,5-TP	11 U	11	1	08/26/25 22:01	8/22/25	
2,4-D	11 U	11	1	08/26/25 22:01	8/22/25	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
DCAA	66	10 - 151	08/26/25 22:01	

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Analytical Report

Client: ALS Environmental - US
Project: 13800_Tacoma
Sample Matrix: Soil

Service Request: R2510153
Date Collected: 08/11/25 11:35
Date Received: 08/20/25 09:30

Sample Name: 13800 SB03 (5-6)
Lab Code: R2510153-003

Units: ug/Kg
Basis: Dry

Chlorinated Herbicides by GC

Analysis Method: 8151A
Prep Method: Method

Analyte Name	Result	MRL	Dil.	Date Analyzed	Date Extracted	Q
2,4,5-T	33 U	33	1	08/27/25 02:54	8/25/25	
2,4,5-TP	33 U	33	1	08/27/25 02:54	8/25/25	
2,4-D	33 U	33	1	08/27/25 02:54	8/25/25	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
DCAA	56	10 - 151	08/27/25 02:54	



General Chemistry

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Analytical Report

Client: ALS Environmental - US
Project: 13800_Tacoma
Sample Matrix: Soil

Sample Name: 13800 SB01 (1-2)
Lab Code: R2510153-001

Service Request: R2510153
Date Collected: 08/11/25 11:11
Date Received: 08/20/25 09:30

Basis: As Received

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Q
Total Solids	ALS SOP	90.1	Percent	-	1	08/29/25 10:00	

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Analytical Report

Client: ALS Environmental - US
Project: 13800_Tacoma
Sample Matrix: Soil

Sample Name: 13800 SB02 (3-4)
Lab Code: R2510153-002

Service Request: R2510153
Date Collected: 08/11/25 11:20
Date Received: 08/20/25 09:30

Basis: As Received

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Q
Total Solids	ALS SOP	90.5	Percent	-	1	08/29/25 10:00	

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Analytical Report

Client: ALS Environmental - US
Project: 13800_Tacoma
Sample Matrix: Soil

Sample Name: 13800 SB03 (5-6)
Lab Code: R2510153-003

Service Request: R2510153
Date Collected: 08/11/25 11:35
Date Received: 08/20/25 09:30

Basis: As Received

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Q
Total Solids	ALS SOP	83.0	Percent	-	1	08/29/25 10:00	



QC Summary Forms

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Semivolatile Organic Compounds by GC/MS

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QA/QC Report

Client: ALS Environmental - US
Project: 13800_Tacoma
Sample Matrix: Soil

Service Request: R2510153

SURROGATE RECOVERY SUMMARY

Semivolatile Organic Compounds by GC/MS using Microwave Digestion

Analysis Method: 8270E
Extraction Method: EPA 3546

Sample Name	Lab Code	2-Fluorobiphenyl	Nitrobenzene-d5	p-Terphenyl-d14
		18 - 104	12 - 98	26 - 134
13800 SB01 (1-2)	R2510153-001	70	70	83
13800 SB02 (3-4)	R2510153-002	62	54	74
13800 SB03 (5-6)	R2510153-003	58	54	72
Method Blank	RQ2511066-01	54	51	70
Lab Control Sample	RQ2511066-02	61	52	75
Duplicate Lab Control Sample	RQ2511066-03	58	50	74

ALS Group USA, Corp.
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Analytical Report

Client: ALS Environmental - US
Project: 13800_Tacoma
Sample Matrix: Soil

Service Request: R2510153
Date Collected: NA
Date Received: NA

Sample Name: Method Blank
Lab Code: RQ2511066-01

Units:
Basis: Dry

Semivolatile Organic Compounds by GC/MS using Microwave Digestion

Analysis Method: 8270E
Prep Method: EPA 3546

Analyte Name	Result	MRL	Dil.	Date Analyzed	Date Extracted	Q
Methylphenols, Total	U	-	1	08/21/25 13:25	8/21/25	
1,2,4,5-Tetrachlorobenzene	330 U	330	1	08/21/25 13:25	8/21/25	
1-Methylnaphthalene	330 U	330	1	08/21/25 13:25	8/21/25	
2-Methylnaphthalene	330 U	330	1	08/21/25 13:25	8/21/25	
Acenaphthene	330 U	330	1	08/21/25 13:25	8/21/25	
Acenaphthylene	330 U	330	1	08/21/25 13:25	8/21/25	
Anthracene	330 U	330	1	08/21/25 13:25	8/21/25	
Benz(a)anthracene	330 U	330	1	08/21/25 13:25	8/21/25	
Benzo(a)pyrene	330 U	330	1	08/21/25 13:25	8/21/25	
Benzo(b)fluoranthene	330 U	330	1	08/21/25 13:25	8/21/25	
Benzo(g,h,i)perylene	330 U	330	1	08/21/25 13:25	8/21/25	
Benzo(k)fluoranthene	330 U	330	1	08/21/25 13:25	8/21/25	
1,4-Dichlorobenzene	330 U	330	1	08/21/25 13:25	8/21/25	
Biphenyl	330 U	330	1	08/21/25 13:25	8/21/25	
Chrysene	330 U	330	1	08/21/25 13:25	8/21/25	
Dibenz(a,h)anthracene	330 U	330	1	08/21/25 13:25	8/21/25	
1,4-Dioxane	67 U	67	1	08/21/25 13:25	8/21/25	
Dibenzofuran	330 U	330	1	08/21/25 13:25	8/21/25	
Fluoranthene	330 U	330	1	08/21/25 13:25	8/21/25	
Fluorene	330 U	330	1	08/21/25 13:25	8/21/25	
Indeno(1,2,3-cd)pyrene	330 U	330	1	08/21/25 13:25	8/21/25	
Naphthalene	330 U	330	1	08/21/25 13:25	8/21/25	
Phenanthrene	330 U	330	1	08/21/25 13:25	8/21/25	
Pyrene	330 U	330	1	08/21/25 13:25	8/21/25	
2,3,4,6-Tetrachlorophenol	330 U	330	1	08/21/25 13:25	8/21/25	
2,4,5-Trichlorophenol	330 U	330	1	08/21/25 13:25	8/21/25	
2,4,6-Trichlorophenol	330 U	330	1	08/21/25 13:25	8/21/25	
2,4-Dichlorophenol	330 U	330	1	08/21/25 13:25	8/21/25	
2,4-Dimethylphenol	330 U	330	1	08/21/25 13:25	8/21/25	
2,4-Dinitrophenol	1700 U	1700	1	08/21/25 13:25	8/21/25	
2,4-Dinitrotoluene	330 U	330	1	08/21/25 13:25	8/21/25	
2,6-Dinitrotoluene	330 U	330	1	08/21/25 13:25	8/21/25	
2-Chloronaphthalene	330 U	330	1	08/21/25 13:25	8/21/25	
2-Chlorophenol	330 U	330	1	08/21/25 13:25	8/21/25	
2-Methylphenol	330 U	330	1	08/21/25 13:25	8/21/25	
2-Nitroaniline	1700 U	1700	1	08/21/25 13:25	8/21/25	
2-Nitrophenol	330 U	330	1	08/21/25 13:25	8/21/25	
3,3'-Dichlorobenzidine	330 U	330	1	08/21/25 13:25	8/21/25	
3- and 4-Methylphenol Coelution	330 U	330	1	08/21/25 13:25	8/21/25	
3-Nitroaniline	1700 U	1700	1	08/21/25 13:25	8/21/25	
4,6-Dinitro-2-methylphenol	1700 U	1700	1	08/21/25 13:25	8/21/25	
4-Bromophenyl Phenyl Ether	330 U	330	1	08/21/25 13:25	8/21/25	
4-Chloro-3-methylphenol	330 U	330	1	08/21/25 13:25	8/21/25	

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Analytical Report

Client: ALS Environmental - US
Project: 13800_Tacoma
Sample Matrix: Soil

Service Request: R2510153
Date Collected: NA
Date Received: NA

Sample Name: Method Blank
Lab Code: RQ2511066-01

Units:
Basis: Dry

Semivolatile Organic Compounds by GC/MS using Microwave Digestion

Analysis Method: 8270E
Prep Method: EPA 3546

Analyte Name	Result	MRL	Dil.	Date Analyzed	Date Extracted	Q
4-Chloroaniline	330 U	330	1	08/21/25 13:25	8/21/25	
4-Chlorophenyl Phenyl Ether	330 U	330	1	08/21/25 13:25	8/21/25	
4-Nitroaniline	1700 U	1700	1	08/21/25 13:25	8/21/25	
4-Nitrophenol	1700 U	1700	1	08/21/25 13:25	8/21/25	
Acetophenone	330 U	330	1	08/21/25 13:25	8/21/25	
Atrazine	330 U	330	1	08/21/25 13:25	8/21/25	
Benzaldehyde	1700 U	1700	1	08/21/25 13:25	8/21/25	
Benzoic Acid	1700 U	1700	1	08/21/25 13:25	8/21/25	
Bis(1-chloroisopropyl) Ether	330 U	330	1	08/21/25 13:25	8/21/25	
Bis(2-chloroethoxy)methane	330 U	330	1	08/21/25 13:25	8/21/25	
Bis(2-chloroethyl) Ether	330 U	330	1	08/21/25 13:25	8/21/25	
Bis(2-ethylhexyl) Phthalate	500 U	500	1	08/21/25 13:25	8/21/25	
Butyl Benzyl Phthalate	330 U	330	1	08/21/25 13:25	8/21/25	
Caprolactam	330 U	330	1	08/21/25 13:25	8/21/25	
Carbazole	330 U	330	1	08/21/25 13:25	8/21/25	
Di-n-butyl Phthalate	330 U	330	1	08/21/25 13:25	8/21/25	
Di-n-octyl Phthalate	330 U	330	1	08/21/25 13:25	8/21/25	
Diethyl Phthalate	330 U	330	1	08/21/25 13:25	8/21/25	
Dimethyl Phthalate	330 U	330	1	08/21/25 13:25	8/21/25	
Hexachlorobenzene	330 U	330	1	08/21/25 13:25	8/21/25	
Hexachlorobutadiene	330 U	330	1	08/21/25 13:25	8/21/25	
Hexachlorocyclopentadiene	330 U	330	1	08/21/25 13:25	8/21/25	
Hexachloroethane	330 U	330	1	08/21/25 13:25	8/21/25	
Isophorone	330 U	330	1	08/21/25 13:25	8/21/25	
N-Nitrosodi-n-propylamine	330 U	330	1	08/21/25 13:25	8/21/25	
N-Nitrosodiphenylamine	330 U	330	1	08/21/25 13:25	8/21/25	
Nitrobenzene	330 U	330	1	08/21/25 13:25	8/21/25	
Pentachlorophenol (PCP)	1700 U	1700	1	08/21/25 13:25	8/21/25	
Phenol	330 U	330	1	08/21/25 13:25	8/21/25	
Pyridine	1700 U	1700	1	08/21/25 13:25	8/21/25	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2-Fluorobiphenyl	54	18 - 104	08/21/25 13:25	
Nitrobenzene-d5	51	12 - 98	08/21/25 13:25	
p-Terphenyl-d14	70	26 - 134	08/21/25 13:25	

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QA/QC Report

Client: ALS Environmental - US
Project: 13800_Tacoma
Sample Matrix: Soil

Service Request: R2510153
Date Analyzed: 08/21/25

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

Units:ug/Kg
Basis:Dry

Analyte Name	Lab Control Sample RQ2511066-02				Duplicate Lab Control Sample RQ2511066-03				RPD	RPD Limit
	Analytical Method	Result	Spike Amount	% Rec	Result	Spike Amount	% Rec	% Rec Limits		
1-Methylnaphthalene	8270E	1630	3320	49	1740	3330	52	29-100	6	30
1,2,4,5-Tetrachlorobenzene	8270E	1830	3320	55	1650	3330	49	20-126	10	30
2-Methylnaphthalene	8270E	1540	3320	46	1660	3330	50	29-99	7	30
Acenaphthene	8270E	1850	3320	56	1990	3330	60	41-110	7	30
Acenaphthylene	8270E	2090	3320	63	2230	3330	67	44-122	6	30
Anthracene	8270E	1950	3320	59	2070	3330	62	41-123	6	30
Benz(a)anthracene	8270E	1990	3320	60	2140	3330	64	44-116	8	30
Benzo(a)pyrene	8270E	2270	3320	68	2420	3330	73	56-146	7	30
Benzo(b)fluoranthene	8270E	1860	3320	56	2000	3330	60	47-120	7	30
Benzo(g,h,i)perylene	8270E	1920	3320	58	2060	3330	62	41-129	7	30
Benzo(k)fluoranthene	8270E	2020	3320	61	2170	3330	65	49-124	7	30
1,4-Dichlorobenzene	8270E	1430	3320	43	1610	3330	48	16-83	12	30
Biphenyl	8270E	1920	3320	58	1720	3330	52	24-112	11	30
Chrysene	8270E	2030	3320	61	2180	3330	65	44-119	7	30
1,4-Dioxane	8270E	1070	3320	32	1050	3330	32	10-58	2	30
Dibenz(a,h)anthracene	8270E	2030	3320	61	2160	3330	65	18-146	6	30
Dibenzofuran	8270E	1940	3320	58	2070	3330	62	43-113	7	30
Fluoranthene	8270E	2000	3320	60	2140	3330	64	39-128	6	30
Fluorene	8270E	1960	3320	59	2070	3330	62	40-117	5	30
Indeno(1,2,3-cd)pyrene	8270E	2120	3320	64	2290	3330	69	43-129	8	30
Naphthalene	8270E	1550	3320	47	1660	3330	50	31-93	7	30
Phenanthrene	8270E	1810	3320	54	1920	3330	58	39-120	6	30
Pyrene	8270E	1960	3320	59	2130	3330	64	45-125	8	30
2,3,4,6-Tetrachlorophenol	8270E	2300	3320	69	2440	3330	73	42-117	6	30
2,4,5-Trichlorophenol	8270E	2080	3320	63	2180	3330	66	40-114	5	30
2,4,6-Trichlorophenol	8270E	1970	3320	59	2130	3330	64	33-108	8	30
2,4-Dichlorophenol	8270E	1820	3320	55	1930	3330	58	30-103	6	30
2,4-Dimethylphenol	8270E	1810	3320	54	1900	3330	57	32-100	5	30
2,4-Dinitrophenol	8270E	1540 J	3320	46	1700 J	3330	51	10-97	9	30
2,4-Dinitrotoluene	8270E	2060	3320	62	2210	3330	67	53-120	7	30
2,6-Dinitrotoluene	8270E	2060	3320	62	2220	3330	67	48-119	7	30
2-Chloronaphthalene	8270E	1850	3320	56	1980	3330	60	33-103	7	30
2-Chlorophenol	8270E	1780	3320	53	1910	3330	57	26-90	7	30

ALS Group USA, Corp.
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QA/QC Report

Client: ALS Environmental - US
Project: 13800_Tacoma
Sample Matrix: Soil

Service Request: R2510153
Date Analyzed: 08/21/25

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

Units:ug/Kg
Basis:Dry

Lab Control Sample RQ2511066-02					Duplicate Lab Control Sample RQ2511066-03					
Analyte Name	Analytical Method	Result	Spike Amount	% Rec	Result	Spike Amount	% Rec	% Rec Limits	RPD	RPD Limit
2-Methylphenol	8270E	1950	3320	59	2080	3330	63	33-99	7	30
2-Nitroaniline	8270E	1970	3320	59	2110	3330	63	41-119	7	30
2-Nitrophenol	8270E	1660	3320	50	1780	3330	53	24-98	7	30
3- and 4-Methylphenol Coelution	8270E	2030	3320	61	2210	3330	66	32-100	9	30
3-Nitroaniline	8270E	1700	3320	51	1750	3330	53	29-105	3	30
4,6-Dinitro-2-methylphenol	8270E	1960	3320	59	2110	3330	64	20-105	7	30
4-Bromophenyl Phenyl Ether	8270E	2000	3320	60	2130	3330	64	37-116	7	30
4-Chloro-3-methylphenol	8270E	1900	3320	57	2000	3330	60	40-116	5	30
4-Chloroaniline	8270E	1330	3320	40	1230	3330	37	10-87	8	30
4-Chlorophenyl Phenyl Ether	8270E	1920	3320	58	2050	3330	62	42-111	6	30
4-Nitroaniline	8270E	1600 J	3320	48	1880	3330	57	43-120	16	30
4-Nitrophenol	8270E	1760	3320	53	1810	3330	54	34-116	2	30
Acetophenone	8270E	1830	3320	55	1640	3330	49	23-87	11	30
Benzoic Acid	8270E	1960	3320	59	2120	3330	64	10-126	8	30
Bis(1-chloroisopropyl) Ether	8270E	1760	3320	53	1930	3330	58	22-99	9	30
Bis(2-chloroethoxy)methane	8270E	1820	3320	55	1930	3330	58	38-119	6	30
Bis(2-chloroethyl) Ether	8270E	1630	3320	49	1780	3330	53	23-94	9	30
Bis(2-ethylhexyl) Phthalate	8270E	2190	3320	66	2370	3330	71	38-139	8	30
Butyl Benzyl Phthalate	8270E	2080	3320	63	2240	3330	67	40-134	8	30
Caprolactam	8270E	1890	3320	57	1630	3330	49	21-128	15	30
Carbazole	8270E	1960	3320	59	2140	3330	64	42-131	9	30
Di-n-butyl Phthalate	8270E	2170	3320	65	2340	3330	70	42-141	8	30
Di-n-octyl Phthalate	8270E	2290	3320	69	2470	3330	74	38-143	8	30
Diethyl Phthalate	8270E	1980	3320	60	2100	3330	63	43-118	6	30
Dimethyl Phthalate	8270E	1990	3320	60	2140	3330	64	40-118	7	30
Hexachlorobenzene	8270E	1940	3320	59	2070	3330	62	35-122	6	30
Hexachlorobutadiene	8270E	1510	3320	45	1650	3330	49	28-96	9	30
Hexachlorocyclopentadiene	8270E	1670	3320	50	1850	3330	55	10-111	10	30
Hexachloroethane	8270E	1460	3320	44	1660	3330	50	18-85	13	30
Isophorone	8270E	1800	3320	54	1920	3330	58	39-104	6	30
N-Nitrosodi-n-propylamine	8270E	1790	3320	54	1910	3330	57	30-98	7	30
N-Nitrosodiphenylamine	8270E	2220	3320	67	2380	3330	72	43-130	7	30
Nitrobenzene	8270E	1640	3320	49	1760	3330	53	31-99	7	30

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QA/QC Report

Client: ALS Environmental - US
Project: 13800_Tacoma
Sample Matrix: Soil

Service Request: R2510153
Date Analyzed: 08/21/25

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

Units:ug/Kg
Basis:Dry

Analyte Name	Analytical Method	Result	Lab Control Sample		Duplicate Lab Control Sample		% Rec Limits	RPD	RPD Limit
			Spike Amount	% Rec	Result	Spike Amount			
Pentachlorophenol (PCP)	8270E	1680 J	3320	51	1770	3330	36-138	5	30
Phenol	8270E	1850	3320	56	1980	3330	31-100	7	30
Pyridine	8270E	2760	6640	42	2910	6660	12-80	5	30



Semivolatile Organic Compounds by GC

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QA/QC Report

Client: ALS Environmental - US
Project: 13800_Tacoma
Sample Matrix: Soil

Service Request: R2510153

SURROGATE RECOVERY SUMMARY

Organochlorine Pesticides by Gas Chromatography using Microwave Extraction

Analysis Method: 8081B
Extraction Method: EPA 3546

Sample Name	Lab Code	Decachlorobiphenyl	Tetrachloro-m-xylene
		10 - 159	10 - 132
13800 SB01 (1-2)	R2510153-001	49	52
13800 SB02 (3-4)	R2510153-002	44	53
13800 SB03 (5-6)	R2510153-003	67	58
Method Blank	RQ2511079-01	64	54
Lab Control Sample	RQ2511079-02	68	61
Duplicate Lab Control Sample	RQ2511079-03	69	58

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: ALS Environmental - US
Project: 13800_Tacoma
Sample Matrix: Soil

Service Request: R2510153
Date Collected: NA
Date Received: NA

Sample Name: Method Blank
Lab Code: RQ2511079-01

Units: ug/Kg
Basis: Dry

Organochlorine Pesticides by Gas Chromatography using Microwave Extraction

Analysis Method: 8081B
Prep Method: EPA 3546

Analyte Name	Result	MRL	Dil.	Date Analyzed	Date Extracted	Q
4,4'-DDD	1.7 U	1.7	1	08/25/25 12:41	8/21/25	
4,4'-DDE	1.7 U	1.7	1	08/25/25 12:41	8/21/25	
4,4'-DDT	1.7 U	1.7	1	08/25/25 12:41	8/21/25	
Aldrin	1.7 U	1.7	1	08/25/25 12:41	8/21/25	
Chlordane	8.3 U	8.3	1	08/25/25 12:41	8/21/25	
Dieldrin	1.7 U	1.7	1	08/25/25 12:41	8/21/25	
Endosulfan I	1.7 U	1.7	1	08/25/25 12:41	8/21/25	
Endosulfan II	1.7 U	1.7	1	08/25/25 12:41	8/21/25	
Endosulfan Sulfate	1.7 U	1.7	1	08/25/25 12:41	8/21/25	
Endrin	1.7 U	1.7	1	08/25/25 12:41	8/21/25	
Endrin Aldehyde	1.7 U	1.7	1	08/25/25 12:41	8/21/25	
Endrin Ketone	1.7 U	1.7	1	08/25/25 12:41	8/21/25	
Heptachlor	1.7 U	1.7	1	08/25/25 12:41	8/21/25	
Heptachlor Epoxide	1.7 U	1.7	1	08/25/25 12:41	8/21/25	
Methoxychlor	1.7 U	1.7	1	08/25/25 12:41	8/21/25	
Toxaphene	33 U	33	1	08/25/25 12:41	8/21/25	
alpha-BHC	1.7 U	1.7	1	08/25/25 12:41	8/21/25	
alpha-Chlordane	1.7 U	1.7	1	08/25/25 12:41	8/21/25	
beta-BHC	1.7 U	1.7	1	08/25/25 12:41	8/21/25	
delta-BHC	1.7 U	1.7	1	08/25/25 12:41	8/21/25	
gamma-BHC (Lindane)	1.7 U	1.7	1	08/25/25 12:41	8/21/25	
gamma-Chlordane	1.7 U	1.7	1	08/25/25 12:41	8/21/25	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	64	10 - 159	08/25/25 12:41	
Tetrachloro-m-xylene	54	10 - 132	08/25/25 12:41	

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: ALS Environmental - US
Project: 13800_Tacoma
Sample Matrix: Soil

Service Request: R2510153
Date Analyzed: 08/25/25

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

Units:ug/Kg
Basis:Dry

Lab Control Sample RQ2511079-02					Duplicate Lab Control Sample RQ2511079-03					
Analyte Name	Analytical Method	Result	Spike Amount	% Rec	Result	Spike Amount	% Rec	% Rec Limits	RPD	RPD Limit
4,4'-DDD	8081B	5.86	6.57	89	5.89	6.64	89	48-121	<1	30
4,4'-DDE	8081B	5.52	6.57	84	5.24	6.64	79	51-119	5	30
4,4'-DDT	8081B	6.01	6.57	92	6.09	6.64	92	51-126	1	30
Aldrin	8081B	4.95	6.57	75	4.64	6.64	70	45-109	6	30
Dieldrin	8081B	5.28	6.57	80	5.11	6.64	77	56-111	3	30
Endosulfan I	8081B	4.60	6.57	70	4.55	6.64	68	54-109	1	30
Endosulfan II	8081B	5.12	6.57	78	5.16	6.64	78	50-116	<1	30
Endosulfan Sulfate	8081B	5.30	6.57	81	5.31	6.64	80	55-115	<1	30
Endrin	8081B	5.41	6.57	82	5.24	6.64	79	49-124	3	30
Endrin Aldehyde	8081B	5.42	6.57	83	5.44	6.64	82	21-139	<1	30
Endrin Ketone	8081B	5.52	6.57	84	5.44	6.64	82	50-124	1	30
Heptachlor	8081B	5.17	6.57	79	4.88	6.64	73	43-115	6	30
Heptachlor Epoxide	8081B	5.38	6.57	82	5.07	6.64	76	53-113	6	30
Methoxychlor	8081B	6.41	6.57	98	6.17	6.64	93	47-141	4	30
alpha-BHC	8081B	5.00	6.57	76	4.55	6.64	68	44-109	10	30
alpha-Chlordane	8081B	5.23	6.57	80	5.09	6.64	77	52-114	3	30
beta-BHC	8081B	5.76	6.57	88	5.22	6.64	79	49-119	10	30
delta-BHC	8081B	5.50	6.57	84	5.32	6.64	80	49-113	3	30
gamma-BHC (Lindane)	8081B	4.88	6.57	74	4.55	6.64	69	43-112	7	30
gamma-Chlordane	8081B	5.37	6.57	82	5.12	6.64	77	51-117	5	30

ALS Group USA, Corp.
dba ALS Environmental

Confirmation Results

Client: ALS Environmental - US
Project: 13800_Tacoma
Matrix: Soil

Service Request: R2510153
Date Collected: 08/11/25 11:11
Date Received: 8/20/25

Sample Name: 13800 SB01 (1-2)
Lab Code: R2510153-001

Units: ug/Kg
Basis: Dry
Percent Solids: 90.1

Organochlorine Pesticides by Gas Chromatography using Microwave Extraction

Analytical Method: 8081B
Prep Method: EPA 3546

Analyte Name	MRL	Primary Result	Confirmation Result	RPD	Q	Dilution Factor	Date Analyzed
4,4'-DDD	2.8	14	15	7		1	08/25/25 14:28
4,4'-DDE	2.8	44	47	7		1	08/25/25 14:28
4,4'-DDT	2.8	14	17	19		1	08/25/25 14:28
alpha-Chlordane	2.8	46	60	26		1	08/25/25 14:28
gamma-Chlordane	2.8	19	23	19		1	08/25/25 14:28

ALS Group USA, Corp.
dba ALS Environmental

Confirmation Results

Client: ALS Environmental - US
Project: 13800_Tacoma
Matrix: Soil

Service Request: R2510153
Date Collected: 08/11/25 11:20
Date Received: 8/20/25

Sample Name: 13800 SB02 (3-4)
Lab Code: R2510153-002

Units: ug/Kg
Basis: Dry
Percent Solids: 90.5

Organochlorine Pesticides by Gas Chromatography using Microwave Extraction

Analytical Method: 8081B
Prep Method: EPA 3546

Analyte Name	MRL	Primary Result	Confirmation Result	RPD	Q	Dilution Factor	Date Analyzed
4,4'-DDD	2.8	5.8	6.4	10		1	08/25/25 14:46
4,4'-DDE	2.8	6.2	6.3	2		1	08/25/25 14:46
4,4'-DDT	2.8	4.4	7.4	51	P	1	08/25/25 14:46
Dieldrin	2.8	3.4	3.6	6		1	08/25/25 14:46
alpha-Chlordane	2.8	5.1	6.8	29		1	08/25/25 14:46
gamma-Chlordane	2.8	5.7	6.7	16		1	08/25/25 14:46

ALS Group USA, Corp.
dba ALS Environmental

Confirmation Results

Client: ALS Environmental - US
Project: 13800_Tacoma
Matrix: Soil

Service Request: R2510153
Date Collected: 08/11/25 11:35
Date Received: 8/20/25

Sample Name: 13800 SB03 (5-6)
Lab Code: R2510153-003

Units: ug/Kg
Basis: Dry
Percent Solids: 83.0

Organochlorine Pesticides by Gas Chromatography using Microwave Extraction

Analytical Method: 8081B
Prep Method: EPA 3546

Analyte Name	MRL	Primary Result	Confirmation Result	RPD	Q	Dilution Factor	Date Analyzed
4,4'-DDE	3.1	14	15	7		1	08/25/25 15:03
alpha-Chlordane	3.1	9.1	10	9		1	08/25/25 15:03
gamma-Chlordane	3.1	4.4	5.3	19		1	08/25/25 15:03

ALS Group USA, Corp.
dba ALS Environmental

Confirmation Results

Client: ALS Environmental - US
Project: 13800_Tacoma
Matrix: Soil

Service Request: R2510153
Date Collected: NA
Date Received:

Sample Name: Lab Control Sample
Lab Code: RQ2511079-02

Units: ug/Kg
Basis: Dry

Organochlorine Pesticides by Gas Chromatography using Microwave Extraction

Analytical Method: 8081B
Prep Method: EPA 3546

Analyte Name	MRL	Primary Result	Confirmation Result	RPD	Q	Dilution Factor	Date Analyzed
4,4'-DDD	1.7	5.86	6.03	3		1	08/25/25 12:59
4,4'-DDE	1.7	5.52	5.79	5		1	08/25/25 12:59
4,4'-DDT	1.7	6.01	6.58	9		1	08/25/25 12:59
Aldrin	1.7	4.95	5.24	6		1	08/25/25 12:59
Dieldrin	1.7	5.28	5.59	6		1	08/25/25 12:59
Endosulfan I	1.7	4.60	5.01	9		1	08/25/25 12:59
Endosulfan II	1.7	5.12	5.59	9		1	08/25/25 12:59
Endosulfan Sulfate	1.7	5.30	5.86	10		1	08/25/25 12:59
Endrin	1.7	5.41	5.78	7		1	08/25/25 12:59
Endrin Aldehyde	1.7	5.42	5.45	<1		1	08/25/25 12:59
Endrin Ketone	1.7	5.52	5.78	5		1	08/25/25 12:59
Heptachlor	1.7	5.17	5.48	6		1	08/25/25 12:59
Heptachlor Epoxide	1.7	5.38	5.68	5		1	08/25/25 12:59
Methoxychlor	1.7	6.41	6.43	<1		1	08/25/25 12:59
alpha-BHC	1.7	5.00	5.42	8		1	08/25/25 12:59
alpha-Chlordane	1.7	5.23	5.55	6		1	08/25/25 12:59
beta-BHC	1.7	5.76	5.82	1		1	08/25/25 12:59
delta-BHC	1.7	5.50	5.76	5		1	08/25/25 12:59
gamma-BHC (Lindane)	1.7	4.88	5.38	10		1	08/25/25 12:59
gamma-Chlordane	1.7	5.37	5.89	9		1	08/25/25 12:59

ALS Group USA, Corp.
dba ALS Environmental

Confirmation Results

Client: ALS Environmental - US
Project: 13800_Tacoma
Matrix: Soil
Sample Name: Duplicate Lab Control Sample
Lab Code: RQ2511079-03

Service Request: R2510153
Date Collected: NA
Date Received:

Units: ug/Kg

Basis: Dry

Organochlorine Pesticides by Gas Chromatography using Microwave Extraction

Analytical Method: 8081B
Prep Method: EPA 3546

Analyte Name	MRL	Primary Result	Confirmation Result	RPD	Q	Dilution Factor	Date Analyzed
4,4'-DDD	1.7	5.89	5.89	<1		1	08/25/25 13:17
4,4'-DDE	1.7	5.24	5.72	9		1	08/25/25 13:17
4,4'-DDT	1.7	6.09	6.48	6		1	08/25/25 13:17
Aldrin	1.7	4.64	4.92	6		1	08/25/25 13:17
Dieldrin	1.7	5.11	5.70	11		1	08/25/25 13:17
Endosulfan I	1.7	4.55	4.92	8		1	08/25/25 13:17
Endosulfan II	1.7	5.16	5.55	7		1	08/25/25 13:17
Endosulfan Sulfate	1.7	5.31	5.81	9		1	08/25/25 13:17
Endrin	1.7	5.24	5.57	6		1	08/25/25 13:17
Endrin Aldehyde	1.7	5.44	5.50	1		1	08/25/25 13:17
Endrin Ketone	1.7	5.44	5.63	3		1	08/25/25 13:17
Heptachlor	1.7	4.88	5.23	7		1	08/25/25 13:17
Heptachlor Epoxide	1.7	5.07	5.61	10		1	08/25/25 13:17
Methoxychlor	1.7	6.17	6.36	3		1	08/25/25 13:17
alpha-BHC	1.7	4.55	5.01	10		1	08/25/25 13:17
alpha-Chlordane	1.7	5.09	5.46	7		1	08/25/25 13:17
beta-BHC	1.7	5.22	5.33	2		1	08/25/25 13:17
delta-BHC	1.7	5.32	5.58	5		1	08/25/25 13:17
gamma-BHC (Lindane)	1.7	4.55	5.14	12		1	08/25/25 13:17
gamma-Chlordane	1.7	5.12	5.73	11		1	08/25/25 13:17

ALS Group USA, Corp.
dba ALS Environmental

Confirmation Results

Client: ALS Environmental - US
Project: 13800_Tacoma
Matrix: Soil

Service Request: R2510153

Date Collected: NA

Date Received:

Sample Name: Performance Evaluation

Lab Code: RQ2511366-01

Units: ug/Kg

Basis: Dry

Organochlorine Pesticides by Gas Chromatography using Microwave Extraction

8081B

Prep Method:

		Primary Result	Confirmation Result	RPD	Q	Dilution Factor	Date Analyzed
4,4'-DDT	1.7	70	77	10	E	1	08/25/25 11:30
Endrin	1.7	33	35	6		1	08/25/25 11:30
Methoxychlor	1.7	170	180	6	E	1	08/25/25 11:30
alpha-BHC	1.7	7.1	6.6	7		1	08/25/25 11:30
beta-BHC	1.7	6.7	6.2	8		1	08/25/25 11:30
gamma-BHC (Lindane)	1.7	7.0	6.5	7		1	08/25/25 11:30

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: ALS Environmental - US
Project: 13800_Tacoma
Sample Matrix: Soil

Service Request: R2510153

SURROGATE RECOVERY SUMMARY
Polychlorinated Biphenyls (PCBs) by GC using Microwave Extraction

Analysis Method: 8082A
Extraction Method: EPA 3546

Sample Name	Lab Code	Decachlorobiphenyl	Tetrachloro-m-xylene
		10 - 138	11 - 122
13800 SB01 (1-2)	R2510153-001	62	52
13800 SB02 (3-4)	R2510153-002	55	54
13800 SB03 (5-6)	R2510153-003	76	54
Method Blank	RQ2511079-01	71	54
Lab Control Sample	RQ2511079-04	77	65
Duplicate Lab Control Sample	RQ2511079-05	84	62

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: ALS Environmental - US
Project: 13800_Tacoma
Sample Matrix: Soil

Service Request: R2510153
Date Collected: NA
Date Received: NA

Sample Name: Method Blank
Lab Code: RQ2511079-01

Units: ug/Kg
Basis: Dry

Polychlorinated Biphenyls (PCBs) by GC using Microwave Extraction

Analysis Method: 8082A
Prep Method: EPA 3546

Analyte Name	Result	MRL	Dil.	Date Analyzed	Date Extracted	Q
Aroclor 1016	32 U	32	1	08/24/25 23:50	8/21/25	
Aroclor 1221	66 U	66	1	08/24/25 23:50	8/21/25	
Aroclor 1232	32 U	32	1	08/24/25 23:50	8/21/25	
Aroclor 1242	32 U	32	1	08/24/25 23:50	8/21/25	
Aroclor 1248	32 U	32	1	08/24/25 23:50	8/21/25	
Aroclor 1254	32 U	32	1	08/24/25 23:50	8/21/25	
Aroclor 1260	32 U	32	1	08/24/25 23:50	8/21/25	
Aroclor 1262	32 U	32	1	08/24/25 23:50	8/21/25	
Aroclor 1268	32 U	32	1	08/24/25 23:50	8/21/25	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	71	10 - 138	08/24/25 23:50	
Tetrachloro-m-xylene	54	11 - 122	08/24/25 23:50	

Client: ALS Environmental - US
Project: 13800_Tacoma
Sample Matrix: Soil

Service Request: R2510153
Date Analyzed: 08/25/25

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

Units:ug/Kg
Basis:Dry

Lab Control Sample					Duplicate Lab Control Sample					
RQ2511079-04					RQ2511079-05					
Analyte Name	Analytical Method	Result	Spike Amount	% Rec	Result	Spike Amount	% Rec	% Rec Limits	RPD	RPD Limit
Aroclor 1016	8082A	131	166	79	126	166	76	34-141	4	30
Aroclor 1260	8082A	140	166	85	144	166	87	30-158	3	30

ALS Group USA, Corp.
dba ALS Environmental

Confirmation Results

Client: ALS Environmental - US
Project: 13800_Tacoma
Matrix: Soil

Service Request: R2510153
Date Collected: 08/11/25 11:20
Date Received: 8/20/25

Sample Name: 13800 SB02 (3-4)
Lab Code: R2510153-002

Units: ug/Kg
Basis: Dry
Percent Solids: 90.5

Polychlorinated Biphenyls (PCBs) by GC using Microwave Extraction

Analytical Method: 8082A
Prep Method: EPA 3546

Analyte Name	MRL	Primary Result	Confirmation Result	RPD	Q	Dilution Factor	Date Analyzed
Aroclor 1248	53	76	84	10		1	08/25/25 01:24

ALS Group USA, Corp.
dba ALS Environmental

Confirmation Results

Client: ALS Environmental - US
Project: 13800_Tacoma
Matrix: Soil

Service Request: R2510153

Date Collected: NA

Date Received:

Sample Name: Lab Control Sample

Lab Code: RQ2511079-04

Units: ug/Kg

Basis: Dry

Polychlorinated Biphenyls (PCBs) by GC using Microwave Extraction

Analytical Method: 8082A

Prep Method: EPA 3546

Analyte Name	MRL	Primary Result	Confirmation Result	RPD	Q	Dilution Factor	Date Analyzed
Aroclor 1016	33	131	137	4		1	08/25/25 00:03
Aroclor 1260	33	140	142	1		1	08/25/25 00:03

ALS Group USA, Corp.
dba ALS Environmental

Confirmation Results

Client: ALS Environmental - US
Project: 13800_Tacoma
Matrix: Soil

Service Request: R2510153
Date Collected: NA
Date Received:

Sample Name: Duplicate Lab Control Sample
Lab Code: RQ2511079-05

Units: ug/Kg
Basis: Dry

Polychlorinated Biphenyls (PCBs) by GC using Microwave Extraction

Analytical Method: 8082A
Prep Method: EPA 3546

Analyte Name	MRL	Primary Result	Confirmation Result	RPD	Q	Dilution Factor	Date Analyzed
Aroclor 1016	33	126	134	6		1	08/25/25 00:17
Aroclor 1260	33	144	146	1		1	08/25/25 00:17

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: ALS Environmental - US
Project: 13800_Tacoma
Sample Matrix: Soil

Service Request: R2510153

SURROGATE RECOVERY SUMMARY
Chlorinated Herbicides by GC

Analysis Method: 8151A
Extraction Method: Method

Sample Name	Lab Code	DCAA
		10 - 151
13800 SB01 (1-2)	R2510153-001	67
13800 SB02 (3-4)	R2510153-002	66
13800 SB03 (5-6)	R2510153-003	56
Method Blank	RQ2511152-01	63
Lab Control Sample	RQ2511152-02	59
Duplicate Lab Control Sample	RQ2511152-03	65
Method Blank	RQ2511241-01	54
Lab Control Sample	RQ2511241-02	54
Duplicate Lab Control Sample	RQ2511241-03	62

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: ALS Environmental - US
Project: 13800_Tacoma
Sample Matrix: Soil

Service Request: R2510153
Date Collected: NA
Date Received: NA

Sample Name: Method Blank
Lab Code: RQ2511152-01
Units: ug/Kg
Basis: Dry

Chlorinated Herbicides by GC

Analysis Method: 8151A
Prep Method: Method

Analyte Name	Result	MRL	Dil.	Date Analyzed	Date Extracted	Q
2,4,5-T	9.9 U	9.9	1	08/26/25 19:16	8/22/25	
2,4,5-TP	9.9 U	9.9	1	08/26/25 19:16	8/22/25	
2,4-D	9.9 U	9.9	1	08/26/25 19:16	8/22/25	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
DCAA	63	10 - 151	08/26/25 19:16	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: ALS Environmental - US
Project: 13800_Tacoma
Sample Matrix: Soil

Service Request: R2510153
Date Collected: NA
Date Received: NA

Sample Name: Method Blank
Lab Code: RQ2511241-01
Units: ug/Kg
Basis: Dry

Chlorinated Herbicides by GC

Analysis Method: 8151A
Prep Method: Method

Analyte Name	Result	MRL	Dil.	Date Analyzed	Date Extracted	Q
2,4,5-T	10 U	10	1	08/27/25 01:59	8/25/25	
2,4,5-TP	10 U	10	1	08/27/25 01:59	8/25/25	
2,4-D	10 U	10	1	08/27/25 01:59	8/25/25	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
DCAA	54	10 - 151	08/27/25 01:59	

Client: ALS Environmental - US
Project: 13800_Tacoma
Sample Matrix: Soil

Service Request: R2510153
Date Analyzed: 08/26/25

Duplicate Lab Control Sample Summary
Chlorinated Herbicides by GC

Units:ug/Kg
Basis:Dry

Lab Control Sample					Duplicate Lab Control Sample					
RQ2511152-02					RQ2511152-03					
Analyte Name	Analytical Method	Result	Spike Amount	% Rec	Result	Spike Amount	% Rec	% Rec Limits	RPD	RPD Limit
2,4,5-T	8151A	16.3	25.0	65	19.0	25.2	75	19-127	15	30
2,4,5-TP	8151A	13.9	25.0	56	16.4	25.2	65	18-122	16	30
2,4-D	8151A	12.7	25.0	51	14.7	25.2	58	31-119	15	30

Client: ALS Environmental - US
Project: 13800_Tacoma
Sample Matrix: Soil

Service Request: R2510153
Date Analyzed: 08/27/25

Duplicate Lab Control Sample Summary
Chlorinated Herbicides by GC

Units:ug/Kg
Basis:Dry

Lab Control Sample					Duplicate Lab Control Sample					
RQ2511241-02					RQ2511241-03					
Analyte Name	Analytical Method	Result	Spike Amount	% Rec	Result	Spike Amount	% Rec	% Rec Limits	RPD	RPD Limit
2,4,5-T	8151A	17.4	25.1	69	19.2	24.8	78	19-127	10	30
2,4,5-TP	8151A	14.1	25.1	56	16.2	24.8	65	18-122	14	30
2,4-D	8151A	13.6	25.1	54	15.0	24.8	61	31-119	10	30

ALS Group USA, Corp.
dba ALS Environmental

Confirmation Results

Client: ALS Environmental - US
Project: 13800_Tacoma
Matrix: Soil

Service Request: R2510153

Date Collected: NA

Date Received:

Sample Name: Lab Control Sample

Lab Code: RQ2511152-02

Units: ug/Kg

Basis: Dry

Chlorinated Herbicides by GC

Analytical Method: 8151A

Prep Method: Method

Analyte Name	MRL	Primary Result	Confirmation Result	RPD	Q	Dilution Factor	Date Analyzed
2,4,5-T	10	16.3	16.7	2		1	08/26/25 19:34
2,4,5-TP	10	13.9	14.4	4		1	08/26/25 19:34
2,4-D	10	12.7	15.2	18		1	08/26/25 19:34

ALS Group USA, Corp.
dba ALS Environmental

Confirmation Results

Client: ALS Environmental - US
Project: 13800_Tacoma
Matrix: Soil

Service Request: R2510153
Date Collected: NA
Date Received:

Sample Name: Duplicate Lab Control Sample
Lab Code: RQ2511152-03

Units: ug/Kg
Basis: Dry

Chlorinated Herbicides by GC

Analytical Method: 8151A
Prep Method: Method

Analyte Name	MRL	Primary Result	Confirmation Result	RPD	Q	Dilution Factor	Date Analyzed
2,4,5-T	10	19.0	18.1	5		1	08/26/25 19:52
2,4,5-TP	10	16.4	16.5	<1		1	08/26/25 19:52
2,4-D	10	14.7	17.7	19		1	08/26/25 19:52

ALS Group USA, Corp.
dba ALS Environmental

Confirmation Results

Client: ALS Environmental - US
Project: 13800_Tacoma
Matrix: Soil

Service Request: R2510153

Date Collected: NA

Date Received:

Sample Name: Lab Control Sample

Lab Code: RQ2511241-02

Units: ug/Kg

Basis: Dry

Chlorinated Herbicides by GC

Analytical Method: 8151A

Prep Method: Method

Analyte Name	MRL	Primary Result	Confirmation Result	RPD	Q	Dilution Factor	Date Analyzed
2,4,5-T	10	17.4	16.4	6		1	08/27/25 02:17
2,4,5-TP	10	14.1	14.7	4		1	08/27/25 02:17
2,4-D	10	13.6	16.2	17		1	08/27/25 02:17

ALS Group USA, Corp.
dba ALS Environmental

Confirmation Results

Client: ALS Environmental - US
Project: 13800_Tacoma
Matrix: Soil

Sample Name: Duplicate Lab Control Sample
Lab Code: RQ2511241-03

Service Request: R2510153
Date Collected: NA
Date Received:

Units: ug/Kg
Basis: Dry

Chlorinated Herbicides by GC

Analytical Method: 8151A
Prep Method: Method

Analyte Name	MRL	Primary Result	Confirmation Result	RPD	Q	Dilution Factor	Date Analyzed
2,4,5-T	9.9	19.2	18.7	3		1	08/27/25 02:36
2,4,5-TP	9.9	16.2	16.7	3		1	08/27/25 02:36
2,4-D	9.9	15.0	17.7	17		1	08/27/25 02:36



Client: The Mannik & Smith Group, Inc.
Project: 13800_Tacoma
Matrix: SOIL/SOLID
QC Lot: 2158508

Work Order: HN2511283
Date Collected: NA
Date Received: NA
Run ID: 3397652

General Chemistry Parameters

MB	CLIENT ID: Method Blank	Lab ID: QC-2158508-001
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Method: EPA 3550C **Dilution:** 1 **Analysis Date:** 08/13/25 16:53
Prep Date: NA

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

LCS	CLIENT ID: Laboratory Control Sample	Lab ID: QC-2158508-002
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Method: EPA 3550C **Dilution:** 1 **Analysis Date:** 08/13/25 16:53
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		100.0	98-102			

The following samples were analyzed in this batch: HN2511283-001, HN2511283-002, HN2511283-003



Client: The Mannik & Smith Group, Inc.
Project: 13800_Tacoma
Matrix: SOIL/SOLID
QC Lot: 2158565

Work Order: HN2511283
Date Collected: NA
Date Received: NA
Run ID: 3400098

General Chemistry Parameters

MB	CLIENT ID: Method Blank	Lab ID: QC-2158565-001
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Method: EPA 9056A **Dilution:** 1 **Analysis Date:** 08/14/25 14:17
Prep Date: 08/14/25 11:50

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

LCS	CLIENT ID: Laboratory Control Sample	Lab ID: QC-2158565-002
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Method: EPA 9056A **Dilution:** 1 **Analysis Date:** 08/14/25 14:27
Prep Date: 08/14/25 11:50

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
Chloride	95.3	mg/kg	10.0	100		95.3	87-110			

The following samples were analyzed in this batch: HN2511283-001, HN2511283-002



Client: The Mannik & Smith Group, Inc.
Project: 13800_Tacoma
Matrix: SOIL/SOLID
QC Lot: 2163330

Work Order: HN2511283
Date Collected: NA
Date Received: NA
Run ID: 3405747

General Chemistry Parameters

MB	CLIENT ID: Method Blank	Lab ID: QC-2163330-001
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Method: EPA 9056A **Dilution:** 1 **Analysis Date:** 08/15/25 21:57
Prep Date: 08/15/25 16:38

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

LCS	CLIENT ID: Laboratory Control Sample	Lab ID: QC-2163330-002
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Method: EPA 9056A **Dilution:** 1 **Analysis Date:** 08/15/25 22:06
Prep Date: 08/15/25 16:38

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
Chloride	99.5	mg/kg	10.0	100		99.5	87-110			

The following samples were analyzed in this batch: HN2511283-003

QA/QC Report



Client: The Mannik & Smith Group, Inc.
Project: 13800_Tacoma
Matrix: SOIL/SOLID
QC Lot: 2162042

Work Order: HN2511283
Date Collected: NA
Date Received: NA
Run ID: 3405977

Metals

MB	CLIENT ID: Method Blank	Lab ID: QC-2162042-001
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Method: EPA 6020B **Dilution:** 1 **Analysis Date:** 08/16/25 02:22
Prep Date: 08/15/25 08:38

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

LCS	CLIENT ID: Laboratory Control Sample	Lab ID: QC-2162042-002
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Method: EPA 6020B **Dilution:** 1 **Analysis Date:** 08/16/25 02:24
Prep Date: 08/15/25 08:38

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
Arsenic	4.66	mg/kg	0.250	5		93.3	80-120			
Barium	4.70	mg/kg	0.250	5		94.1	80-120			
Cadmium	4.75	mg/kg	0.100	5		95.1	80-120			
Chromium	4.67	mg/kg	0.250	5		93.4	80-120			
Copper	4.73	mg/kg	0.250	5		94.6	80-120			
Lead	4.72	mg/kg	0.250	5		94.4	80-120			
Selenium	4.58	mg/kg	0.250	5		91.7	80-120			
Silver	4.63	mg/kg	0.250	5		92.5	80-120			
Zinc	4.69	mg/kg	0.500	5		93.8	80-120			

The following samples were analyzed in this batch: HN2511283-001, HN2511283-002, HN2511283-003

QA/QC Report



Client: The Mannik & Smith Group, Inc.
Project: 13800_Tacoma
Matrix: SOIL/SOLID
QC Lot: 2162145

Work Order: HN2511283
Date Collected: NA
Date Received: NA
Run ID: 3405106

Metals

MB	CLIENT ID: Method Blank	Lab ID: QC-2162145-001
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Method: EPA 7471B **Dilution:** 1 **Analysis Date:** 08/18/25 10:38
Prep Date: 08/15/25 14:36

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

LCS	CLIENT ID: Laboratory Control Sample	Lab ID: QC-2162145-002
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Method: EPA 7471B **Dilution:** 1 **Analysis Date:** 08/18/25 10:39
Prep Date: 08/15/25 14:36

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
Mercury	0.172	mg/kg	0.0200	0.1665		104	80-120			

The following samples were analyzed in this batch: HN2511283-001, HN2511283-002, HN2511283-003



Client: The Mannik & Smith Group, Inc.
Project: 13800_Tacoma
Matrix: SOIL/SOLID
QC Lot: 2156052

Work Order: HN2511283
Date Collected: NA
Date Received: NA
Run ID: 3402980

Volatile Organic Compounds by GC-MS

MB	CLIENT ID: Method Blank	Lab ID: QC-2156052-001
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Method: EPA 8260D

Dilution: 1

Analysis Date: 08/14/25 22:40

Prep Date: 08/12/25 15:49

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

QA/QC Report



Client: The Mannik & Smith Group, Inc.
Project: 13800_Tacoma
Matrix: SOIL/SOLID
QC Lot: 2156052

Work Order: HN2511283
Date Collected: NA
Date Received: NA
Run ID: 3402980

MB	CLIENT ID: Method Blank	Lab ID: QC-2156052-001
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Method: EPA 8260D **Dilution:** 1 **Analysis Date:** 08/14/25 22:40
Prep Date: 08/12/25 15:49

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
Ethylbenzene	ND	µg/kg	30.0							
Isopropylbenzene	ND	µg/kg	30.0							
m+p-Xylene	ND	µg/kg	60.0							
Methyl acetate	ND	µg/kg	250							
Methyl bromide (Bromomethane)	ND	µg/kg	100							
Methyl chloride (Chloromethane)	ND	µg/kg	100							
Methyl tert-butyl ether (MTBE)	ND	µg/kg	30.0							
Methylcyclohexane	ND	µg/kg	30.0							
Methylene chloride (Dichloromethane)	ND	µg/kg	250							
o-Xylene	ND	µg/kg	30.0							
Styrene	ND	µg/kg	30.0							
Tetrachloroethylene (Perchloroethylene)	ND	µg/kg	30.0							
Toluene	ND	µg/kg	30.0							
Total Xylene	ND	µg/kg	90.0							
trans-1,2-Dichloroethylene	ND	µg/kg	30.0							
trans-1,3-Dichloropropylene	ND	µg/kg	30.0							
Trichloroethene (Trichloroethylene)	ND	µg/kg	30.0							
Trichlorofluoromethane (Fluorotrichloromethane, Freon 11)	ND	µg/kg	30.0							
Vinyl chloride (Chloroethene)	ND	µg/kg	30.0							
Surr: 1,2-Dichloroethane-d4	988	µg/kg		1000		98.8	80-120			
Surr: 4-Bromofluorobenzene	973	µg/kg		1000		97.3	80-120			
Surr: Dibromofluoromethane	914	µg/kg		1000		91.4	80-120			
Surr: Toluene-d8	1030	µg/kg		1000		103	80-120			

LCS	CLIENT ID: Laboratory Control Sample	Lab ID: QC-2156052-002
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Method: EPA 8260D **Dilution:** 1 **Analysis Date:** 08/14/25 22:08
Prep Date: 08/12/25 15:49

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
1,1,1-Trichloroethane	869	µg/kg	30.0	1000		86.9	75-121			
1,1,2,2-Tetrachloroethane	932	µg/kg	30.0	1000		93.2	79-125			
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	866	µg/kg	30.0	1000		86.6	62-129			
1,1,2-Trichloroethane	944	µg/kg	30.0	1000		94.4	80-123			
1,1-Dichloroethane	942	µg/kg	30.0	1000		94.2	74-124			
1,1-Dichloroethylene	862	µg/kg	30.0	1000		86.2	68-131			
1,2,3-Trichlorobenzene	846	µg/kg	100	1000		84.6	60-135			
1,2,3-Trichloropropane	852	µg/kg	30.0	1000		85.2	77-121			
1,2,4-Trichlorobenzene	816	µg/kg	100	1000		81.6	63-130			
1,2,4-Trimethylbenzene	855	µg/kg	30.0	1000		85.5	64-126			
1,2-Dibromo-3-chloropropane (DBCP)	885	µg/kg	100	1000		88.5	55-135			
1,2-Dibromoethane (EDB, Ethylene dibromide)	800	µg/kg	30.0	1000		80.0	63-155			

QA/QC Report



Client: The Mannik & Smith Group, Inc.
Project: 13800_Tacoma
Matrix: SOIL/SOLID
QC Lot: 2156052

Work Order: HN2511283
Date Collected: NA
Date Received: NA
Run ID: 3402980

LCS	CLIENT ID: Laboratory Control Sample	Lab ID: QC-2156052-002
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Method: EPA 8260D

Dilution: 1

Analysis Date: 08/14/25 22:08

Prep Date: 08/12/25 15:49

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
1,2-Dichlorobenzene (o-Dichlorobenzene)	853	µg/kg	30.0	1000		85.3	77-122			
1,2-Dichloroethane (Ethylene dichloride)	890	µg/kg	100	1000		89.0	70-130			
1,2-Dichloropropane	888	µg/kg	30.0	1000		88.8	71-130			
1,3,5-Trimethylbenzene	843	µg/kg	100	1000		84.3	66-130			
1,3-Dichlorobenzene (m-Dichlorobenzene)	842	µg/kg	30.0	1000		84.2	78-121			
1,3-Dichloropropene	1740	µg/kg	60.0	2000		87.0	62-124			
1,4-Dichlorobenzene (p-Dichlorobenzene)	854	µg/kg	30.0	1000		85.4	78-122			
2-Butanone (Methyl ethyl ketone, MEK)	966	µg/kg	200	1000		96.6	47-164			
2-Hexanone	970	µg/kg	30.0	1000		97.0	70-137			
4-Methyl-2-pentanone (MIBK)	1530	µg/kg	30.0	1000		153	57-200			
Acetone	1160	µg/kg	100	1000		116	52-190			
Benzene	946	µg/kg	30.0	1000		94.6	78-122			
Bromochloromethane	900	µg/kg	30.0	1000		90.0	68-130			
Bromodichloromethane	996	µg/kg	30.0	1000		99.6	75-125			
Bromoform	806	µg/kg	30.0	1000		80.6	59-120			
Carbon disulfide	1120	µg/kg	30.0	1000		112	60-163			
Carbon tetrachloride	906	µg/kg	30.0	1000		90.6	69-123			
Chlorobenzene	853	µg/kg	30.0	1000		85.3	79-120			
Chlorodibromomethane	796	µg/kg	30.0	1000		79.6	57-123			
Chloroethane (Ethyl chloride)	1030	µg/kg	100	1000		103	38-132			
Chloroform	878	µg/kg	30.0	1000		87.8	72-122			
cis & trans-1,2-Dichloroethene	1800	µg/kg	60.0	2000		90.0	72-127			
cis-1,2-Dichloroethylene	907	µg/kg	30.0	1000		90.7	74-125			
cis-1,3-Dichloropropene	970	µg/kg	30.0	1000		97.0	62-124			
Dichlorodifluoromethane (Freon-12)	1040	µg/kg	100	1000		104	28-137			
Ethylbenzene	863	µg/kg	30.0	1000		86.3	75-121			
Isopropylbenzene	856	µg/kg	30.0	1000		85.6	74-121			
m+p-Xylene	1780	µg/kg	60.0	2000		88.8	67-129			
Methyl acetate	582	µg/kg	250	1000		58.2	61-125			
Methyl bromide (Bromomethane)	1040	µg/kg	100	1000		104	31-169			
Methyl chloride (Chloromethane)	979	µg/kg	100	1000		97.9	24-119			
Methyl tert-butyl ether (MTBE)	983	µg/kg	30.0	1000		98.3	79-139			
Methylene chloride (Dichloromethane)	876	µg/kg	250	1000		87.6	62-135			
o-Xylene	888	µg/kg	30.0	1000		88.8	75-120			
Styrene	868	µg/kg	30.0	1000		86.8	74-126			
Tetrachloroethylene (Perchloroethylene)	899	µg/kg	30.0	1000		89.9	76-128			
Toluene	924	µg/kg	30.0	1000		92.4	76-120			
Total Xylene	2660	µg/kg	90.0	3000		88.8	67-129			
trans-1,2-Dichloroethylene	894	µg/kg	30.0	1000		89.4	72-127			
trans-1,3-Dichloropropylene	770	µg/kg	30.0	1000		77.0	66-120			
Trichloroethene (Trichloroethylene)	888	µg/kg	30.0	1000		88.8	75-122			

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QA/QC Report



Client: The Mannik & Smith Group, Inc.
Project: 13800_Tacoma
Matrix: SOIL/SOLID
QC Lot: 2156052

Work Order: HN2511283
Date Collected: NA
Date Received: NA
Run ID: 3402980

LCS	CLIENT ID: Laboratory Control Sample	Lab ID: QC-2156052-002
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Method: EPA 8260D

Dilution: 1

Analysis Date: 08/14/25 22:08

Prep Date: 08/12/25 15:49

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
Trichlorofluoromethane (Fluorotrichloromethane, Freon 11)	818	µg/kg	30.0	1000		81.8	51-115			
Vinyl chloride (Chloroethene)	1090	µg/kg	30.0	1000		109	43-128			
Surr: 1,2-Dichloroethane-d4	1000	µg/kg		1000		100	80-120			
Surr: 4-Bromofluorobenzene	957	µg/kg		1000		95.7	80-120			
Surr: Dibromofluoromethane	1040	µg/kg		1000		104	80-120			
Surr: Toluene-d8	955	µg/kg		1000		95.5	80-120			

The following samples were analyzed in this batch: HN2511283-001, HN2511283-002, HN2511283-003



Client: The Mannik & Smith Group, Inc.
Project: 13800_Tacoma
Matrix: SOIL/SOLID
QC Lot: 2166362

Work Order: HN2511283
Date Collected: NA
Date Received: NA
Run ID: 3410072

Volatile Organic Compounds by GC-MS

MB	CLIENT ID: Method Blank	Lab ID: QC-2166362-001
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Method: EPA 8260D

Dilution: 1

Analysis Date: 08/18/25 12:38

Prep Date: 08/18/25 12:30

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



Client: The Mannik & Smith Group, Inc.
Project: 13800_Tacoma
Matrix: SOIL/SOLID
QC Lot: 2166362

Work Order: HN2511283
Date Collected: NA
Date Received: NA
Run ID: 3410072

MB	CLIENT ID: Method Blank	Lab ID: QC-2166362-001
----	-------------------------	------------------------

Method: EPA 8260D

Dilution: 1

Analysis Date: 08/18/25 12:38

Prep Date: 08/18/25 12:30

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
Ethylbenzene	ND	µg/kg	30.0							
Isopropylbenzene	ND	µg/kg	30.0							
m+p-Xylene	ND	µg/kg	60.0							
Methyl acetate	ND	µg/kg	250							
Methyl bromide (Bromomethane)	ND	µg/kg	100							
Methyl chloride (Chloromethane)	ND	µg/kg	100							
Methyl tert-butyl ether (MTBE)	ND	µg/kg	30.0							
Methylcyclohexane	ND	µg/kg	30.0							
Methylene chloride (Dichloromethane)	ND	µg/kg	250							
o-Xylene	ND	µg/kg	30.0							
Styrene	ND	µg/kg	30.0							
Tetrachloroethylene (Perchloroethylene)	ND	µg/kg	30.0							
Toluene	ND	µg/kg	30.0							
Total Xylene	ND	µg/kg	90.0							
trans-1,2-Dichloroethylene	ND	µg/kg	30.0							
trans-1,3-Dichloropropylene	ND	µg/kg	30.0							
Trichloroethene (Trichloroethylene)	ND	µg/kg	30.0							
Trichlorofluoromethane (Fluorotrichloromethane, Freon 11)	ND	µg/kg	30.0							
Vinyl chloride (Chloroethene)	ND	µg/kg	30.0							
Surr: 1,2-Dichloroethane-d4	973	µg/kg		1000		97.3	80-120			
Surr: 4-Bromofluorobenzene	984	µg/kg		1000		98.4	80-120			
Surr: Dibromofluoromethane	946	µg/kg		1000		94.6	72-120			
Surr: Toluene-d8	986	µg/kg		1000		98.6	80-120			

LCS	CLIENT ID: Laboratory Control Sample	Lab ID: QC-2166362-002
-----	--------------------------------------	------------------------

Method: EPA 8260D

Dilution: 1

Analysis Date: 08/18/25 12:38

Prep Date: 08/18/25 12:30

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
1,1,1-Trichloroethane	906	µg/kg	30.0	1000		90.6	75-121			
1,1,2,2-Tetrachloroethane	926	µg/kg	30.0	1000		92.6	79-125			
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	918	µg/kg	30.0	1000		91.8	62-129			
1,1,2-Trichloroethane	888	µg/kg	30.0	1000		88.8	80-123			
1,1-Dichloroethane	1040	µg/kg	30.0	1000		104	74-124			
1,1-Dichloroethylene	1010	µg/kg	30.0	1000		101	68-131			
1,2,3-Trichlorobenzene	957	µg/kg	100	1000		95.7	60-135			
1,2,3-Trichloropropane	890	µg/kg	30.0	1000		89.0	77-121			
1,2,4-Trichlorobenzene	953	µg/kg	100	1000		95.3	63-130			
1,2,4-Trimethylbenzene	912	µg/kg	30.0	1000		91.2	64-126			
1,2-Dibromo-3-chloropropane (DBCP)	819	µg/kg	100	1000		81.9	55-135			
1,2-Dibromoethane (EDB, Ethylene dibromide)	872	µg/kg	30.0	1000		87.2	63-155			

QA/QC Report



Client: The Mannik & Smith Group, Inc.
Project: 13800_Tacoma
Matrix: SOIL/SOLID
QC Lot: 2166362

Work Order: HN2511283
Date Collected: NA
Date Received: NA
Run ID: 3410072

LCS	CLIENT ID: Laboratory Control Sample	Lab ID: QC-2166362-002
-----	--------------------------------------	------------------------

Method: EPA 8260D

Dilution: 1

Analysis Date: 08/18/25 12:38

Prep Date: 08/18/25 12:30

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
1,2-Dichlorobenzene (o-Dichlorobenzene)	900	µg/kg	30.0	1000		90.0	77-122			
1,2-Dichloroethane (Ethylene dichloride)	929	µg/kg	100	1000		92.9	70-130			
1,2-Dichloropropane	915	µg/kg	30.0	1000		91.5	71-130			
1,3,5-Trimethylbenzene	940	µg/kg	100	1000		94.0	66-130			
1,3-Dichlorobenzene (m-Dichlorobenzene)	898	µg/kg	30.0	1000		89.8	78-121			
1,3-Dichloropropene	1490	µg/kg	60.0	2000		74.3	62-124			
1,4-Dichlorobenzene (p-Dichlorobenzene)	919	µg/kg	30.0	1000		91.9	78-122			
2-Butanone (Methyl ethyl ketone, MEK)	1010	µg/kg	200	1000		101	47-164			
2-Hexanone	926	µg/kg	30.0	1000		92.6	70-137			
4-Methyl-2-pentanone (MIBK)	1260	µg/kg	30.0	1000		126	57-200			
Acetone	1390	µg/kg	100	1000		139	52-190			
Benzene	970	µg/kg	30.0	1000		97.0	78-122			
Bromochloromethane	924	µg/kg	30.0	1000		92.4	68-130			
Bromodichloromethane	856	µg/kg	30.0	1000		85.6	75-125			
Bromoform	770	µg/kg	30.0	1000		77.0	59-120			
Carbon disulfide	1190	µg/kg	30.0	1000		119	60-163			
Carbon tetrachloride	938	µg/kg	30.0	1000		93.8	69-123			
Chlorobenzene	903	µg/kg	30.0	1000		90.3	79-120			
Chlorodibromomethane	674	µg/kg	30.0	1000		67.4	57-123			
Chloroethane (Ethyl chloride)	972	µg/kg	100	1000		97.2	38-132			
Chloroform	938	µg/kg	30.0	1000		93.8	72-122			
cis & trans-1,2-Dichloroethene	1930	µg/kg	60.0	2000		96.7	72-127			
cis-1,2-Dichloroethylene	952	µg/kg	30.0	1000		95.2	74-125			
cis-1,3-Dichloropropene	816	µg/kg	30.0	1000		81.6	62-124			
Dichlorodifluoromethane (Freon-12)	837	µg/kg	100	1000		83.7	28-137			
Ethylbenzene	937	µg/kg	30.0	1000		93.7	75-121			
Isopropylbenzene	923	µg/kg	30.0	1000		92.3	74-121			
m+p-Xylene	1870	µg/kg	60.0	2000		93.7	67-129			
Methyl acetate	926	µg/kg	250	1000		92.6	61-125			
Methyl bromide (Bromomethane)	902	µg/kg	100	1000		90.2	31-169			
Methyl chloride (Chloromethane)	921	µg/kg	100	1000		92.1	24-119			
Methyl tert-butyl ether (MTBE)	946	µg/kg	30.0	1000		94.6	79-139			
Methylene chloride (Dichloromethane)	988	µg/kg	250	1000		98.8	62-135			
o-Xylene	926	µg/kg	30.0	1000		92.6	75-120			
Styrene	895	µg/kg	30.0	1000		89.5	74-126			
Tetrachloroethylene (Perchloroethylene)	922	µg/kg	30.0	1000		92.2	76-128			
Toluene	932	µg/kg	30.0	1000		93.2	76-120			
Total Xylene	2800	µg/kg	90.0	3000		93.3	67-129			
trans-1,2-Dichloroethylene	982	µg/kg	30.0	1000		98.2	72-127			
trans-1,3-Dichloropropylene	671	µg/kg	30.0	1000		67.1	66-120			
Trichloroethene (Trichloroethylene)	886	µg/kg	30.0	1000		88.6	75-122			

QA/QC Report



Client: The Mannik & Smith Group, Inc.
Project: 13800_Tacoma
Matrix: SOIL/SOLID
QC Lot: 2166362

Work Order: HN2511283
Date Collected: NA
Date Received: NA
Run ID: 3410072

LCS	CLIENT ID: Laboratory Control Sample	Lab ID: QC-2166362-002
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Method: EPA 8260D

Dilution: 1

Analysis Date: 08/18/25 12:38

Prep Date: 08/18/25 12:30

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
Trichlorofluoromethane (Fluorotrichloromethane, Freon 11)	874	µg/kg	30.0	1000		87.4	51-115			
Vinyl chloride (Chloroethene)	1030	µg/kg	30.0	1000		103	43-128			
<i>Surr: 1,2-Dichloroethane-d4</i>	960	<i>µg/kg</i>		1000		96.0	80-120			
<i>Surr: 4-Bromofluorobenzene</i>	990	<i>µg/kg</i>		1000		99.0	80-120			
<i>Surr: Dibromofluoromethane</i>	980	<i>µg/kg</i>		1000		98.0	72-120			
<i>Surr: Toluene-d8</i>	980	<i>µg/kg</i>		1000		98.0	80-120			

The following samples were analyzed in this batch: HN2511283-001, HN2511283-002, HN2511283-003



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October 20, 2025

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

Re: **DETR0060**

Date Received: **10/11/2025**

Work Order: **HN2515097**

Dear Ryan,

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

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

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

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

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

Dale Schipper

/S/ DALE SCHIPPER

Project Manager



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

Work Order: HN2515097
Date Received: 11-Oct-2025

CASE NARRATIVE

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

Sample Receipt

1 soil/solid sample was received for analysis at ALS Environmental on 11-Oct-2025. Any discrepancies upon initial sample inspection are annotated on the sample receipt and preservation form included within this report. The samples were stored at minimum in accordance with the analytical method requirements.

SAMPLE SUMMARY



Client: The Mannik & Smith Group, Inc.
Project: DETR0060
Workorder: HN2515097

Laboratory Sample ID	Client Sample ID	Sample Matrix	Collection Date	Date Received
HN2515097-001	13800 Tacoma SB01 TCLP	SOIL/SOLID	10/10/25 13:30	10/11/25 07:00

REPORT QUALIFIERS AND DEFINITIONS

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

Holland Laboratory Certifications¹

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

¹ - Scope available upon request

Analytical Report



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

Work Order: HN2515097
Date Collected: 10/10/25 13:30
Date Received: 10/11/25 07:00

CLIENT ID: 13800 Tacoma SB01 TCLP

Lab ID: HN2515097-001

Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
TCLP Metals								
Arsenic	EPA 6020B	<0.00190	U	mg/L	0.0499	1	10/17/25 01:00	10/16/25 11:50
Chromium	EPA 6020B	<0.00610	U	mg/L	0.0499	1	10/17/25 01:00	10/16/25 11:50



Client: The Mannik & Smith Group, Inc.
Project: DETR0060
Matrix: SOIL/SOLID
QC Lot: 2278707

Work Order: HN2515097
Date Collected: NA
Date Received: NA
Run ID: 3595179

TCLP Metals

MB	CLIENT ID: Method Blank	Lab ID: QC-2278707-001
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Method: EPA 6020B **Dilution:** 1 **Analysis Date:** 10/17/25 00:46
Prep Date: 10/16/25 11:51

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

LCS	CLIENT ID: Laboratory Control Sample	Lab ID: QC-2278707-002
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Method: EPA 6020B **Dilution:** 1 **Analysis Date:** 10/17/25 00:48
Prep Date: 10/16/25 11:51

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	Rec Limits	RPD	RPD Limit	Qual
Arsenic	1.00	mg/L	0.0499	1		100	80-120			
Chromium	0.959	mg/L	0.0499	1		95.9	80-120			

The following samples were analyzed in this batch: HN2515097-001

ANALYST SUMMARY



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

Work Order: HN2515097

Sample Name: 13800 Tacoma SB01 TCLP
Laboratory Code: HN2515097-001
Sample Matrix: SOIL/SOLID

Date Collected: 10/10/25
Date Received: 10/11/25

Analysis Method	Preparation Method	Container ID	Preparation Lot	Prepared By	Analysis Lot	Analyzed By
EPA 6020B	EPA 3015A	001-AD	2278707	Chloe Patrick	3595179	Hunter Johnson



ALS Environmental

Laboratory location:

Chain of Custody Form

Page ____ of ____

Customer Information		Project Information						Parameter/Method Request for Analysis			
Purchase Order		Project Name	13800 Tacoma				A	TCLP Arsenic			
Work Order	Quote ID - 11631	Project Number	DETR0060				B	TCLP Chromium			
Company Name	Mannik Smith Group	Bill To Company	Mannik Smith Group				C				
Send Report To	Ryan Montri	Invoice Attn:					D				
Address	2365 South Haggerty Road	Address	2365 South Haggerty Road				E				
City/State/Zip	Canton, Mi 48188	City/State/Zip	Canton, Mi 48188				F				
Phone	734-397-3100	Phone	734-397-3100				G				
Fax		Fax					H				
e-Mail Address	rmontri@manniksmithgroup.com	e-Mail Address:					I				
							J				
No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	
1	13800 Tacoma SBO1 TCLP	10/10/25	1330	Soil		2	X	X			
2											
3											
4											
5											
6											
7											
8											
9											
10											

Environmental Division
Holland
Work Order Reference
HN2515097



Telephone : +1 616 399 6070

Hold

Sampler(s): Please Print & Sign <i>Shannon Macmurek</i>		Shipment Method:	Required Turnaround Time: ☐ STD 10 Wk Days ☒ 5 Wk Days ☐ 2 Wk Days ☐ 24 Hour		Results Due Date:						
Relinquished by: <i>[Signature]</i>	Date: 10/10/25	Time: 1430	Received by: <i>[Signature]</i>	Notes: 10/10 1430							
Relinquished by: <i>[Signature]</i>	Date: 10/10	Time: 1700	Received by (Laboratory): <i>[Signature]</i>	Cooler Temp. 2.1/2.1°C 127	QC Package: (Check Box Below) <table border="1"><tr><td>☐ Level II: Standard QC</td><td>TRRP-Checklist</td></tr><tr><td>☐ Level III: Std QC + Raw Data</td><td>TRRP Level IV</td></tr><tr><td>☐ Level IV: SW846 CLP-Like</td><td></td></tr></table>	☐ Level II: Standard QC	TRRP-Checklist	☐ Level III: Std QC + Raw Data	TRRP Level IV	☐ Level IV: SW846 CLP-Like	
☐ Level II: Standard QC	TRRP-Checklist										
☐ Level III: Std QC + Raw Data	TRRP Level IV										
☐ Level IV: SW846 CLP-Like											
Logged by (Laboratory): rec NS 10/11/25 0200	Date:	Time:	Checked by (Laboratory): logged NS 10/11/25 0900								
Preservative Key: 1-HCL 2-HNO3 3-H2SO4 4-NaOH 5-Na2S2O3 6-NaHSO4 7-Other 8-4 degrees C 9-5035											

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

Received by: NS

Date/Time: 10/11/25 0700

Carrier Name: QS

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

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

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

Chain of Custody present? Yes / No

COC signed when relinquished and received? Yes / No

COC agrees with sample labels? Yes / No

Samples in proper container/bottle? Yes / No

Sample containers intact? Yes / No

Sufficient sample volume for indicated test? Yes / No

All samples received within holding time? Yes / No

Container/Temp Blank temperature in compliance? Yes / No

Temperature(s) (°C): 2.1/2.1 °C

Thermometer(s): 1 R7

Sample(s) received on ice? Yes / No

Matrix/Matrices: S

Cooler(s)/Kit(s): 1

Date/Time sample(s) sent to storage: 10/11/25 0900 10/11/25 0900

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:

APPENDIX F
AMENDED LABORATORY ANALYTICAL DATA REPORT





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CERTIFICATE OF ANALYSIS

Work Order

HN2511283

Client

The Mannik & Smith Group, Inc.

Project

13800_Tacoma

Project Date

August 12, 2025

Reporting Contact

Ryan Montri



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right partner.

October 31, 2025

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

Re: **13800_Tacoma**

Date Received: **08/12/2025**
Work Order: **HN2511283**
Revision: **1**

Dear Ryan,

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

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

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

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

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

Dale Schipper

/S/ DALE SCHIPPER

Project Manager



Client: The Mannik & Smith Group, Inc.
Project: 13800_Tacoma

Work Order: HN2511283
Date Received: 12-Aug-2025

CASE NARRATIVE

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

Sample Receipt

3 soil/solid samples were received for analysis at ALS Environmental on 12-Aug-2025. Any discrepancies upon initial sample inspection are annotated on the sample receipt and preservation form included within this report. The samples were stored at minimum in accordance with the analytical method requirements.

Organics

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

Run ID: 3410072

MS/MSD recoveries were below the lower control limit. The corresponding result in the parent sample may be biased low for this analyte: See QA/QC Report

Samples have low surrogate recovery. Control charting demonstrated consistent recovery below control limits. Acceptable surrogate limit lowered to 72% recovery.

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

Bromodichloromethane

Run ID: 3403304

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

Bromodichloromethane

Run ID: 3402980

LCS recovery was below the lower control limit. Sample results in the batch may be biased low for the analyte(s): Methyl acetate

Inorganics

EPA 9056A-S (High)

Run ID: 3405747

MS/MSD values were outside the upper limit of calibration. Processed at equivalent dilution level as the parent: Chloride

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: 13800 SB01 (1-2)	Lab ID: HN2511283-001
-----------------------------	-----------------------

Analyte	Results	Flag	MRL	Units	Method
Arsenic	7.14		0.321	mg/kg	EPA 6020B
Barium	97.5		0.321	mg/kg	EPA 6020B
Cadmium	0.168		0.128	mg/kg	EPA 6020B
Chromium	27.6		0.321	mg/kg	EPA 6020B
Copper	19.7		3.21	mg/kg	EPA 6020B
Lead	20.0		0.321	mg/kg	EPA 6020B
m+p-Xylene	78.1		73.8	µg/kg	EPA 8260D
Mercury	0.0441		0.0204	mg/kg	EPA 7471B
Percent Moisture	9.9		0.1	%	EPA 3550C
Subcontract Analysis	See attached.			-	EPA 8081B
Subcontract Analysis	See attached.			-	EPA 8082A
Subcontract Analysis	See attached.			-	EPA 8151A
Subcontract Analysis	See attached.			-	EPA 8270E
Zinc	73.7		0.641	mg/kg	EPA 6020B

CLIENT ID: 13800 SB02 (3-4)	Lab ID: HN2511283-002
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Analyte	Results	Flag	MRL	Units	Method
Arsenic	4.26		0.327	mg/kg	EPA 6020B
Barium	51.3		0.327	mg/kg	EPA 6020B
Cadmium	0.191		0.131	mg/kg	EPA 6020B
Chromium	12.5		0.327	mg/kg	EPA 6020B
Copper	9.23		0.327	mg/kg	EPA 6020B
Lead	21.6		0.327	mg/kg	EPA 6020B
Mercury	0.0651		0.0200	mg/kg	EPA 7471B
Percent Moisture	9.5		0.1	%	EPA 3550C
Subcontract Analysis	See attached.			-	EPA 8081B
Subcontract Analysis	See attached.			-	EPA 8082A
Subcontract Analysis	See attached.			-	EPA 8151A
Subcontract Analysis	See attached.			-	EPA 8270E
Zinc	92.4		0.654	mg/kg	EPA 6020B

CLIENT ID: 13800 SB03 (5-6)	Lab ID: HN2511283-003
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Analyte	Results	Flag	MRL	Units	Method
Arsenic	5.92		0.353	mg/kg	EPA 6020B
Barium	59.6		0.353	mg/kg	EPA 6020B
Chromium	14.0		0.353	mg/kg	EPA 6020B
Copper	10.4		0.353	mg/kg	EPA 6020B
Lead	19.4		0.353	mg/kg	EPA 6020B
Mercury	0.0226		0.0200	mg/kg	EPA 7471B
Percent Moisture	17.0		0.1	%	EPA 3550C
Subcontract Analysis	See attached.			-	EPA 8081B

SAMPLE DETECTION SUMMARY

This form includes only detections above the limits as presented.

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



CLIENT ID: 13800 SB03 (5-6)

Lab ID: HN2511283-003

Analyte	Results	Flag	MRL	Units	Method
Subcontract Analysis	See attached.			-	EPA 8082A
Subcontract Analysis	See attached.			-	EPA 8151A
Subcontract Analysis	See attached.			-	EPA 8270E
Zinc	54.6		0.706	mg/kg	EPA 6020B

SAMPLE SUMMARY



Client: The Mannik & Smith Group, Inc.
Project: 13800_Tacoma
Workorder: HN2511283

Laboratory Sample ID	Client Sample ID	Sample Matrix	Collection Date	Date Received
HN2511283-001	13800 SB01 (1-2)	SOIL/SOLID	08/11/25 11:11	08/12/25 08:00
HN2511283-002	13800 SB02 (3-4)	SOIL/SOLID	08/11/25 11:20	08/12/25 08:00
HN2511283-003	13800 SB03 (5-6)	SOIL/SOLID	08/11/25 11:35	08/12/25 08:00

REPORT QUALIFIERS AND DEFINITIONS

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

Holland Laboratory Certifications¹

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

¹ - Scope available upon request

Analytical Report



Client: The Mannik & Smith Group, Inc.
Project: 13800_Tacoma
Matrix: SOIL/SOLID

Work Order: HN2511283
Date Collected: 08/11/25 11:11
Date Received: 08/12/25 08:00

CLIENT ID: 13800 SB01 (1-2)	Lab ID: HN2511283-001
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Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
General Chemistry Parameters								
Percent Moisture	EPA 3550C	9.9		%	0.1	1	08/13/25 16:53	NA
Chloride	EPA 9056A	ND		mg/kg	11.1	1	08/14/25 17:32	08/14/25 11:50
Metals								
Arsenic	EPA 6020B	7.14		mg/kg	0.321	1	08/16/25 03:41	08/15/25 08:37
Barium	EPA 6020B	97.5		mg/kg	0.321	1	08/16/25 03:41	08/15/25 08:37
Cadmium	EPA 6020B	0.168		mg/kg	0.128	1	08/16/25 03:41	08/15/25 08:37
Chromium	EPA 6020B	27.6		mg/kg	0.321	1	08/16/25 03:41	08/15/25 08:37
Copper	EPA 6020B	19.7		mg/kg	3.21	10	08/18/25 17:22	08/15/25 08:37
Lead	EPA 6020B	20.0		mg/kg	0.321	1	08/16/25 03:41	08/15/25 08:37
Selenium	EPA 6020B	ND		mg/kg	0.321	1	08/16/25 03:41	08/15/25 08:37
Silver	EPA 6020B	ND		mg/kg	0.321	1	08/16/25 03:41	08/15/25 08:37
Zinc	EPA 6020B	73.7		mg/kg	0.641	1	08/16/25 03:41	08/15/25 08:37
Mercury	EPA 7471B	0.0441		mg/kg	0.0204	1	08/18/25 10:52	08/15/25 14:35
Subcontracted Parameters								
Subcontract Analysis	EPA 8081B	See attached.		-		1	09/02/25 14:57	NA
Subcontract Analysis	EPA 8082A	See attached.		-		1	09/02/25 14:57	NA
Subcontract Analysis	EPA 8151A	See attached.		-		1	09/02/25 14:57	NA
Subcontract Analysis	EPA 8270E	See attached.		-		1	09/02/25 14:57	NA
Volatile Organic Compounds by GC-MS								
1,1,1-Trichloroethane	EPA 8260D	ND		µg/kg	36.9	1	08/18/25 12:37	08/18/25 12:29
1,1,2,2-Tetrachloroethane	EPA 8260D	ND		µg/kg	36.9	1	08/18/25 12:37	08/18/25 12:29
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	EPA 8260D	ND		µg/kg	36.9	1	08/18/25 12:37	08/18/25 12:29
1,1,2-Trichloroethane	EPA 8260D	ND		µg/kg	36.9	1	08/18/25 12:37	08/18/25 12:29
1,1-Dichloroethane	EPA 8260D	ND		µg/kg	36.9	1	08/18/25 12:37	08/18/25 12:29
1,1-Dichloroethylene	EPA 8260D	ND		µg/kg	36.9	1	08/18/25 12:37	08/18/25 12:29
1,2,3-Trichlorobenzene	EPA 8260D	ND		µg/kg	123	1	08/18/25 12:37	08/18/25 12:29
1,2,3-Trichloropropane	EPA 8260D	ND		µg/kg	36.9	1	08/18/25 12:37	08/18/25 12:29
1,2,4-Trichlorobenzene	EPA 8260D	ND		µg/kg	123	1	08/18/25 12:37	08/18/25 12:29
1,2,4-Trimethylbenzene	EPA 8260D	ND		µg/kg	36.9	1	08/18/25 12:37	08/18/25 12:29

Analytical Report



Client: The Mannik & Smith Group, Inc.
Project: 13800_Tacoma
Matrix: SOIL/SOLID

Work Order: HN2511283
Date Collected: 08/11/25 11:11
Date Received: 08/12/25 08:00

CLIENT ID: 13800 SB01 (1-2)	Lab ID: HN2511283-001
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Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
1,2-Dibromo-3-chloropropane (DBCP)	EPA 8260D	ND		µg/kg	123	1	08/18/25 12:37	08/18/25 12:29
1,2-Dibromoethane (EDB, Ethylene dibromide)	EPA 8260D	ND		µg/kg	36.9	1	08/18/25 12:37	08/18/25 12:29
1,2-Dichlorobenzene (o-Dichlorobenzene)	EPA 8260D	ND		µg/kg	36.9	1	08/18/25 12:37	08/18/25 12:29
1,2-Dichloroethane (Ethylene dichloride)	EPA 8260D	ND		µg/kg	123	1	08/18/25 12:37	08/18/25 12:29
1,2-Dichloropropane	EPA 8260D	ND		µg/kg	36.9	1	08/18/25 12:37	08/18/25 12:29
1,3,5-Trimethylbenzene	EPA 8260D	ND		µg/kg	123	1	08/18/25 12:37	08/18/25 12:29
1,3-Dichlorobenzene (m-Dichlorobenzene)	EPA 8260D	ND		µg/kg	36.9	1	08/18/25 12:37	08/18/25 12:29
1,3-Dichloropropene	EPA 8260D	ND		µg/kg	73.8	1	08/18/25 12:37	08/18/25 12:29
1,4-Dichlorobenzene (p-Dichlorobenzene)	EPA 8260D	ND		µg/kg	36.9	1	08/18/25 12:37	08/18/25 12:29
2-Butanone (Methyl ethyl ketone, MEK)	EPA 8260D	ND		µg/kg	246	1	08/18/25 12:37	08/18/25 12:29
2-Hexanone	EPA 8260D	ND		µg/kg	36.9	1	08/18/25 12:37	08/18/25 12:29
4-Methyl-2-pentanone (MIBK)	EPA 8260D	ND		µg/kg	36.9	1	08/18/25 12:37	08/18/25 12:29
Acetone	EPA 8260D	ND		µg/kg	123	1	08/18/25 12:37	08/18/25 12:29
Benzene	EPA 8260D	ND		µg/kg	36.9	1	08/18/25 12:37	08/18/25 12:29
Bromochloromethane	EPA 8260D	ND		µg/kg	36.9	1	08/18/25 12:37	08/18/25 12:29
Bromodichloromethane	EPA 8260D	ND		µg/kg	36.9	1	08/18/25 12:37	08/18/25 12:29
Bromoform	EPA 8260D	ND		µg/kg	36.9	1	08/18/25 12:37	08/18/25 12:29
Carbon disulfide	EPA 8260D	ND		µg/kg	36.9	1	08/18/25 12:37	08/18/25 12:29
Carbon tetrachloride	EPA 8260D	ND		µg/kg	36.9	1	08/18/25 12:37	08/18/25 12:29
Chlorobenzene	EPA 8260D	ND		µg/kg	36.9	1	08/18/25 12:37	08/18/25 12:29
Chlorodibromomethane	EPA 8260D	ND		µg/kg	36.9	1	08/18/25 12:37	08/18/25 12:29
Chloroethane (Ethyl chloride)	EPA 8260D	ND		µg/kg	123	1	08/18/25 12:37	08/18/25 12:29
Chloroform	EPA 8260D	ND		µg/kg	36.9	1	08/18/25 12:37	08/18/25 12:29
cis & trans-1,2-Dichloroethene	EPA 8260D	ND		µg/kg	73.8	1	08/18/25 12:37	08/18/25 12:29
cis-1,2-Dichloroethylene	EPA 8260D	ND		µg/kg	36.9	1	08/18/25 12:37	08/18/25 12:29
cis-1,3-Dichloropropene	EPA 8260D	ND		µg/kg	36.9	1	08/18/25 12:37	08/18/25 12:29
Cyclohexane	EPA 8260D	ND		µg/kg	123	1	08/18/25 12:37	08/18/25 12:29
Dichlorodifluoromethane (Freon-12)	EPA 8260D	ND		µg/kg	123	1	08/18/25 12:37	08/18/25 12:29

Analytical Report



Client: The Mannik & Smith Group, Inc.
Project: 13800_Tacoma
Matrix: SOIL/SOLID

Work Order: HN2511283
Date Collected: 08/11/25 11:11
Date Received: 08/12/25 08:00

CLIENT ID: 13800 SB01 (1-2) **Lab ID: HN2511283-001**

Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
Ethylbenzene	EPA 8260D	ND		µg/kg	36.9	1	08/18/25 12:37	08/18/25 12:29
Isopropylbenzene	EPA 8260D	ND		µg/kg	36.9	1	08/18/25 12:37	08/18/25 12:29
m+p-Xylene	EPA 8260D	78.1		µg/kg	73.8	1	08/18/25 12:37	08/18/25 12:29
Methyl acetate	EPA 8260D	ND		µg/kg	307	1	08/18/25 12:37	08/18/25 12:29
Methyl bromide (Bromomethane)	EPA 8260D	ND		µg/kg	123	1	08/18/25 12:37	08/18/25 12:29
Methyl chloride (Chloromethane)	EPA 8260D	ND		µg/kg	123	1	08/18/25 12:37	08/18/25 12:29
Methyl tert-butyl ether (MTBE)	EPA 8260D	ND		µg/kg	36.9	1	08/18/25 12:37	08/18/25 12:29
Methylcyclohexane	EPA 8260D	ND		µg/kg	36.9	1	08/18/25 12:37	08/18/25 12:29
Methylene chloride (Dichloromethane)	EPA 8260D	ND		µg/kg	307	1	08/18/25 12:37	08/18/25 12:29
o-Xylene	EPA 8260D	ND		µg/kg	36.9	1	08/18/25 12:37	08/18/25 12:29
Styrene	EPA 8260D	ND		µg/kg	36.9	1	08/18/25 12:37	08/18/25 12:29
Tetrachloroethylene (Perchloroethylene)	EPA 8260D	ND		µg/kg	36.9	1	08/18/25 12:37	08/18/25 12:29
Toluene	EPA 8260D	ND		µg/kg	36.9	1	08/18/25 12:37	08/18/25 12:29
Total Xylene	EPA 8260D	ND		µg/kg	111	1	08/18/25 12:37	08/18/25 12:29
trans-1,2-Dichloroethylene	EPA 8260D	ND		µg/kg	36.9	1	08/18/25 12:37	08/18/25 12:29
trans-1,3-Dichloropropylene	EPA 8260D	ND		µg/kg	36.9	1	08/18/25 12:37	08/18/25 12:29
Trichloroethene (Trichloroethylene)	EPA 8260D	ND		µg/kg	36.9	1	08/18/25 12:37	08/18/25 12:29
Trichlorofluoromethane (Fluorotrichloromethane, Freon 11)	EPA 8260D	ND		µg/kg	36.9	1	08/18/25 12:37	08/18/25 12:29
Vinyl chloride (Chloroethene)	EPA 8260D	ND		µg/kg	36.9	1	08/18/25 12:37	08/18/25 12:29
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>EPA 8260D</i>	94.4		%REC	80-120	1	08/18/25 12:37	08/18/25 12:29
<i>Surr: 4-Bromofluorobenzene</i>	<i>EPA 8260D</i>	97.8		%REC	80-120	1	08/18/25 12:37	08/18/25 12:29
<i>Surr: Dibromofluoromethane</i>	<i>EPA 8260D</i>	80.4		%REC	80-120	1	08/18/25 12:37	08/18/25 12:29
<i>Surr: Toluene-d8</i>	<i>EPA 8260D</i>	97.3		%REC	80-120	1	08/18/25 12:37	08/18/25 12:29

Analytical Report



Client: The Mannik & Smith Group, Inc.
Project: 13800_Tacoma
Matrix: SOIL/SOLID

Work Order: HN2511283
Date Collected: 08/11/25 11:20
Date Received: 08/12/25 08:00

CLIENT ID: 13800 SB02 (3-4)	Lab ID: HN2511283-002
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Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
General Chemistry Parameters								
Percent Moisture	EPA 3550C	9.5		%	0.1	1	08/13/25 16:53	NA
Chloride	EPA 9056A	ND		mg/kg	11.0	1	08/14/25 17:42	08/14/25 11:50
Metals								
Arsenic	EPA 6020B	4.26		mg/kg	0.327	1	08/16/25 03:43	08/15/25 08:37
Barium	EPA 6020B	51.3		mg/kg	0.327	1	08/16/25 03:43	08/15/25 08:37
Cadmium	EPA 6020B	0.191		mg/kg	0.131	1	08/16/25 03:43	08/15/25 08:37
Chromium	EPA 6020B	12.5		mg/kg	0.327	1	08/16/25 03:43	08/15/25 08:37
Copper	EPA 6020B	9.23		mg/kg	0.327	1	08/16/25 03:43	08/15/25 08:37
Lead	EPA 6020B	21.6		mg/kg	0.327	1	08/16/25 03:43	08/15/25 08:37
Selenium	EPA 6020B	ND		mg/kg	0.327	1	08/16/25 03:43	08/15/25 08:37
Silver	EPA 6020B	ND		mg/kg	0.327	1	08/16/25 03:43	08/15/25 08:37
Zinc	EPA 6020B	92.4		mg/kg	0.654	1	08/16/25 03:43	08/15/25 08:37
Mercury	EPA 7471B	0.0651		mg/kg	0.0200	1	08/18/25 11:00	08/15/25 14:35
Subcontracted Parameters								
Subcontract Analysis	EPA 8081B	See attached.		-		1	09/02/25 14:57	NA
Subcontract Analysis	EPA 8082A	See attached.		-		1	09/02/25 14:57	NA
Subcontract Analysis	EPA 8151A	See attached.		-		1	09/02/25 14:57	NA
Subcontract Analysis	EPA 8270E	See attached.		-		1	09/02/25 14:57	NA
Volatile Organic Compounds by GC-MS								
1,1,1-Trichloroethane	EPA 8260D	ND		µg/kg	35.8	1	08/18/25 12:37	08/18/25 12:29
1,1,2,2-Tetrachloroethane	EPA 8260D	ND		µg/kg	35.8	1	08/18/25 12:37	08/18/25 12:29
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	EPA 8260D	ND		µg/kg	35.8	1	08/18/25 12:37	08/18/25 12:29
1,1,2-Trichloroethane	EPA 8260D	ND		µg/kg	35.8	1	08/18/25 12:37	08/18/25 12:29
1,1-Dichloroethane	EPA 8260D	ND		µg/kg	35.8	1	08/18/25 12:37	08/18/25 12:29
1,1-Dichloroethylene	EPA 8260D	ND		µg/kg	35.8	1	08/18/25 12:37	08/18/25 12:29
1,2,3-Trichlorobenzene	EPA 8260D	ND		µg/kg	119	1	08/18/25 12:37	08/18/25 12:29
1,2,3-Trichloropropane	EPA 8260D	ND		µg/kg	35.8	1	08/18/25 12:37	08/18/25 12:29
1,2,4-Trichlorobenzene	EPA 8260D	ND		µg/kg	119	1	08/18/25 12:37	08/18/25 12:29
1,2,4-Trimethylbenzene	EPA 8260D	ND		µg/kg	35.8	1	08/18/25 12:37	08/18/25 12:29

Analytical Report



Client: The Mannik & Smith Group, Inc.
Project: 13800_Tacoma
Matrix: SOIL/SOLID

Work Order: HN2511283
Date Collected: 08/11/25 11:20
Date Received: 08/12/25 08:00

CLIENT ID: 13800 SB02 (3-4)	Lab ID: HN2511283-002
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Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
1,2-Dibromo-3-chloropropane (DBCP)	EPA 8260D	ND		µg/kg	119	1	08/18/25 12:37	08/18/25 12:29
1,2-Dibromoethane (EDB, Ethylene dibromide)	EPA 8260D	ND		µg/kg	35.8	1	08/18/25 12:37	08/18/25 12:29
1,2-Dichlorobenzene (o-Dichlorobenzene)	EPA 8260D	ND		µg/kg	35.8	1	08/18/25 12:37	08/18/25 12:29
1,2-Dichloroethane (Ethylene dichloride)	EPA 8260D	ND		µg/kg	119	1	08/18/25 12:37	08/18/25 12:29
1,2-Dichloropropane	EPA 8260D	ND		µg/kg	35.8	1	08/18/25 12:37	08/18/25 12:29
1,3,5-Trimethylbenzene	EPA 8260D	ND		µg/kg	119	1	08/18/25 12:37	08/18/25 12:29
1,3-Dichlorobenzene (m-Dichlorobenzene)	EPA 8260D	ND		µg/kg	35.8	1	08/18/25 12:37	08/18/25 12:29
1,3-Dichloropropene	EPA 8260D	ND		µg/kg	71.7	1	08/18/25 12:37	08/18/25 12:29
1,4-Dichlorobenzene (p-Dichlorobenzene)	EPA 8260D	ND		µg/kg	35.8	1	08/18/25 12:37	08/18/25 12:29
2-Butanone (Methyl ethyl ketone, MEK)	EPA 8260D	ND		µg/kg	239	1	08/18/25 12:37	08/18/25 12:29
2-Hexanone	EPA 8260D	ND		µg/kg	35.8	1	08/18/25 12:37	08/18/25 12:29
4-Methyl-2-pentanone (MIBK)	EPA 8260D	ND		µg/kg	35.8	1	08/18/25 12:37	08/18/25 12:29
Acetone	EPA 8260D	ND		µg/kg	119	1	08/18/25 12:37	08/18/25 12:29
Benzene	EPA 8260D	ND		µg/kg	35.8	1	08/18/25 12:37	08/18/25 12:29
Bromochloromethane	EPA 8260D	ND		µg/kg	35.8	1	08/18/25 12:37	08/18/25 12:29
Bromodichloromethane	EPA 8260D	ND		µg/kg	35.8	1	08/18/25 12:37	08/18/25 12:29
Bromoform	EPA 8260D	ND		µg/kg	35.8	1	08/18/25 12:37	08/18/25 12:29
Carbon disulfide	EPA 8260D	ND		µg/kg	35.8	1	08/18/25 12:37	08/18/25 12:29
Carbon tetrachloride	EPA 8260D	ND		µg/kg	35.8	1	08/18/25 12:37	08/18/25 12:29
Chlorobenzene	EPA 8260D	ND		µg/kg	35.8	1	08/18/25 12:37	08/18/25 12:29
Chlorodibromomethane	EPA 8260D	ND		µg/kg	35.8	1	08/18/25 12:37	08/18/25 12:29
Chloroethane (Ethyl chloride)	EPA 8260D	ND		µg/kg	119	1	08/18/25 12:37	08/18/25 12:29
Chloroform	EPA 8260D	ND		µg/kg	35.8	1	08/18/25 12:37	08/18/25 12:29
cis & trans-1,2-Dichloroethene	EPA 8260D	ND		µg/kg	71.7	1	08/18/25 12:37	08/18/25 12:29
cis-1,2-Dichloroethylene	EPA 8260D	ND		µg/kg	35.8	1	08/18/25 12:37	08/18/25 12:29
cis-1,3-Dichloropropene	EPA 8260D	ND		µg/kg	35.8	1	08/18/25 12:37	08/18/25 12:29
Cyclohexane	EPA 8260D	ND		µg/kg	119	1	08/18/25 12:37	08/18/25 12:29
Dichlorodifluoromethane (Freon-12)	EPA 8260D	ND		µg/kg	119	1	08/18/25 12:37	08/18/25 12:29

Analytical Report



Client: The Mannik & Smith Group, Inc.
Project: 13800_Tacoma
Matrix: SOIL/SOLID

Work Order: HN2511283
Date Collected: 08/11/25 11:20
Date Received: 08/12/25 08:00

CLIENT ID: 13800 SB02 (3-4)	Lab ID: HN2511283-002
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Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
Ethylbenzene	EPA 8260D	ND		µg/kg	35.8	1	08/18/25 12:37	08/18/25 12:29
Isopropylbenzene	EPA 8260D	ND		µg/kg	35.8	1	08/18/25 12:37	08/18/25 12:29
m+p-Xylene	EPA 8260D	ND		µg/kg	71.7	1	08/18/25 12:37	08/18/25 12:29
Methyl acetate	EPA 8260D	ND		µg/kg	298	1	08/18/25 12:37	08/18/25 12:29
Methyl bromide (Bromomethane)	EPA 8260D	ND		µg/kg	119	1	08/18/25 12:37	08/18/25 12:29
Methyl chloride (Chloromethane)	EPA 8260D	ND		µg/kg	119	1	08/18/25 12:37	08/18/25 12:29
Methyl tert-butyl ether (MTBE)	EPA 8260D	ND		µg/kg	35.8	1	08/18/25 12:37	08/18/25 12:29
Methylcyclohexane	EPA 8260D	ND		µg/kg	35.8	1	08/18/25 12:37	08/18/25 12:29
Methylene chloride (Dichloromethane)	EPA 8260D	ND		µg/kg	298	1	08/18/25 12:37	08/18/25 12:29
o-Xylene	EPA 8260D	ND		µg/kg	35.8	1	08/18/25 12:37	08/18/25 12:29
Styrene	EPA 8260D	ND		µg/kg	35.8	1	08/18/25 12:37	08/18/25 12:29
Tetrachloroethylene (Perchloroethylene)	EPA 8260D	ND		µg/kg	35.8	1	08/18/25 12:37	08/18/25 12:29
Toluene	EPA 8260D	ND		µg/kg	35.8	1	08/18/25 12:37	08/18/25 12:29
Total Xylene	EPA 8260D	ND		µg/kg	107	1	08/18/25 12:37	08/18/25 12:29
trans-1,2-Dichloroethylene	EPA 8260D	ND		µg/kg	35.8	1	08/18/25 12:37	08/18/25 12:29
trans-1,3- Dichloropropylene	EPA 8260D	ND		µg/kg	35.8	1	08/18/25 12:37	08/18/25 12:29
Trichloroethene (Trichloroethylene)	EPA 8260D	ND		µg/kg	35.8	1	08/18/25 12:37	08/18/25 12:29
Trichlorofluoromethane (Fluorotrichloromethane, Freon 11)	EPA 8260D	ND		µg/kg	35.8	1	08/18/25 12:37	08/18/25 12:29
Vinyl chloride (Chloroethene)	EPA 8260D	ND		µg/kg	35.8	1	08/18/25 12:37	08/18/25 12:29
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>EPA 8260D</i>	94.8		%REC	80-120	1	08/18/25 12:37	08/18/25 12:29
<i>Surr: 4-Bromofluorobenzene</i>	<i>EPA 8260D</i>	97.2		%REC	80-120	1	08/18/25 12:37	08/18/25 12:29
<i>Surr: Dibromofluoromethane</i>	<i>EPA 8260D</i>	77.8	S	%REC	80-120	1	08/18/25 12:37	08/18/25 12:29
<i>Surr: Toluene-d8</i>	<i>EPA 8260D</i>	98.3		%REC	80-120	1	08/18/25 12:37	08/18/25 12:29

Analytical Report



Client: The Mannik & Smith Group, Inc.
Project: 13800_Tacoma
Matrix: SOIL/SOLID

Work Order: HN2511283
Date Collected: 08/11/25 11:35
Date Received: 08/12/25 08:00

CLIENT ID: 13800 SB03 (5-6)	Lab ID: HN2511283-003
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Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
General Chemistry Parameters								
Percent Moisture	EPA 3550C	17.0		%	0.1	1	08/13/25 16:53	NA
Chloride	EPA 9056A	ND		mg/kg	12.0	1	08/15/25 23:15	08/15/25 16:37
Metals								
Arsenic	EPA 6020B	5.92		mg/kg	0.353	1	08/16/25 03:48	08/15/25 08:37
Barium	EPA 6020B	59.6		mg/kg	0.353	1	08/16/25 03:48	08/15/25 08:37
Cadmium	EPA 6020B	ND		mg/kg	0.141	1	08/16/25 03:48	08/15/25 08:37
Chromium	EPA 6020B	14.0		mg/kg	0.353	1	08/16/25 03:48	08/15/25 08:37
Copper	EPA 6020B	10.4		mg/kg	0.353	1	08/16/25 03:48	08/15/25 08:37
Lead	EPA 6020B	19.4		mg/kg	0.353	1	08/16/25 03:48	08/15/25 08:37
Selenium	EPA 6020B	ND		mg/kg	0.353	1	08/16/25 03:48	08/15/25 08:37
Silver	EPA 6020B	ND		mg/kg	0.353	1	08/16/25 03:48	08/15/25 08:37
Zinc	EPA 6020B	54.6		mg/kg	0.706	1	08/16/25 03:48	08/15/25 08:37
Mercury	EPA 7471B	0.0226		mg/kg	0.0200	1	08/18/25 11:02	08/15/25 14:35
Subcontracted Parameters								
Subcontract Analysis	EPA 8081B	See attached.		-		1	09/02/25 14:57	NA
Subcontract Analysis	EPA 8082A	See attached.		-		1	09/02/25 14:57	NA
Subcontract Analysis	EPA 8151A	See attached.		-		1	09/02/25 14:57	NA
Subcontract Analysis	EPA 8270E	See attached.		-		1	09/02/25 14:57	NA
Volatile Organic Compounds by GC-MS								
1,1,1-Trichloroethane	EPA 8260D	ND		µg/kg	43.6	1	08/18/25 12:37	08/18/25 12:29
1,1,2,2-Tetrachloroethane	EPA 8260D	ND		µg/kg	43.6	1	08/18/25 12:37	08/18/25 12:29
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	EPA 8260D	ND		µg/kg	43.6	1	08/18/25 12:37	08/18/25 12:29
1,1,2-Trichloroethane	EPA 8260D	ND		µg/kg	43.6	1	08/18/25 12:37	08/18/25 12:29
1,1-Dichloroethane	EPA 8260D	ND		µg/kg	43.6	1	08/18/25 12:37	08/18/25 12:29
1,1-Dichloroethylene	EPA 8260D	ND		µg/kg	43.6	1	08/18/25 12:37	08/18/25 12:29
1,2,3-Trichlorobenzene	EPA 8260D	ND		µg/kg	145	1	08/18/25 12:37	08/18/25 12:29
1,2,3-Trichloropropane	EPA 8260D	ND		µg/kg	43.6	1	08/18/25 12:37	08/18/25 12:29
1,2,4-Trichlorobenzene	EPA 8260D	ND		µg/kg	145	1	08/18/25 12:37	08/18/25 12:29
1,2,4-Trimethylbenzene	EPA 8260D	ND		µg/kg	43.6	1	08/18/25 12:37	08/18/25 12:29

Analytical Report



Client: The Mannik & Smith Group, Inc.
Project: 13800_Tacoma
Matrix: SOIL/SOLID

Work Order: HN2511283
Date Collected: 08/11/25 11:35
Date Received: 08/12/25 08:00

CLIENT ID: 13800 SB03 (5-6)	Lab ID: HN2511283-003
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Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
1,2-Dibromo-3-chloropropane (DBCP)	EPA 8260D	ND		µg/kg	145	1	08/18/25 12:37	08/18/25 12:29
1,2-Dibromoethane (EDB, Ethylene dibromide)	EPA 8260D	ND		µg/kg	43.6	1	08/18/25 12:37	08/18/25 12:29
1,2-Dichlorobenzene (o-Dichlorobenzene)	EPA 8260D	ND		µg/kg	43.6	1	08/18/25 12:37	08/18/25 12:29
1,2-Dichloroethane (Ethylene dichloride)	EPA 8260D	ND		µg/kg	145	1	08/18/25 12:37	08/18/25 12:29
1,2-Dichloropropane	EPA 8260D	ND		µg/kg	43.6	1	08/18/25 12:37	08/18/25 12:29
1,3,5-Trimethylbenzene	EPA 8260D	ND		µg/kg	145	1	08/18/25 12:37	08/18/25 12:29
1,3-Dichlorobenzene (m-Dichlorobenzene)	EPA 8260D	ND		µg/kg	43.6	1	08/18/25 12:37	08/18/25 12:29
1,3-Dichloropropene	EPA 8260D	ND		µg/kg	87.1	1	08/18/25 12:37	08/18/25 12:29
1,4-Dichlorobenzene (p-Dichlorobenzene)	EPA 8260D	ND		µg/kg	43.6	1	08/18/25 12:37	08/18/25 12:29
2-Butanone (Methyl ethyl ketone, MEK)	EPA 8260D	ND		µg/kg	290	1	08/18/25 12:37	08/18/25 12:29
2-Hexanone	EPA 8260D	ND		µg/kg	43.6	1	08/18/25 12:37	08/18/25 12:29
4-Methyl-2-pentanone (MIBK)	EPA 8260D	ND		µg/kg	43.6	1	08/18/25 12:37	08/18/25 12:29
Acetone	EPA 8260D	ND		µg/kg	145	1	08/18/25 12:37	08/18/25 12:29
Benzene	EPA 8260D	ND		µg/kg	43.6	1	08/18/25 12:37	08/18/25 12:29
Bromochloromethane	EPA 8260D	ND		µg/kg	43.6	1	08/18/25 12:37	08/18/25 12:29
Bromodichloromethane	EPA 8260D	ND		µg/kg	43.6	1	08/18/25 12:37	08/18/25 12:29
Bromoform	EPA 8260D	ND		µg/kg	43.6	1	08/18/25 12:37	08/18/25 12:29
Carbon disulfide	EPA 8260D	ND		µg/kg	43.6	1	08/18/25 12:37	08/18/25 12:29
Carbon tetrachloride	EPA 8260D	ND		µg/kg	43.6	1	08/18/25 12:37	08/18/25 12:29
Chlorobenzene	EPA 8260D	ND		µg/kg	43.6	1	08/18/25 12:37	08/18/25 12:29
Chlorodibromomethane	EPA 8260D	ND		µg/kg	43.6	1	08/18/25 12:37	08/18/25 12:29
Chloroethane (Ethyl chloride)	EPA 8260D	ND		µg/kg	145	1	08/18/25 12:37	08/18/25 12:29
Chloroform	EPA 8260D	ND		µg/kg	43.6	1	08/18/25 12:37	08/18/25 12:29
cis & trans-1,2-Dichloroethene	EPA 8260D	ND		µg/kg	87.1	1	08/18/25 12:37	08/18/25 12:29
cis-1,2-Dichloroethylene	EPA 8260D	ND		µg/kg	43.6	1	08/18/25 12:37	08/18/25 12:29
cis-1,3-Dichloropropene	EPA 8260D	ND		µg/kg	43.6	1	08/18/25 12:37	08/18/25 12:29
Cyclohexane	EPA 8260D	ND		µg/kg	145	1	08/18/25 12:37	08/18/25 12:29
Dichlorodifluoromethane (Freon-12)	EPA 8260D	ND		µg/kg	145	1	08/18/25 12:37	08/18/25 12:29

Analytical Report



Client: The Mannik & Smith Group, Inc.
Project: 13800_Tacoma
Matrix: SOIL/SOLID

Work Order: HN2511283
Date Collected: 08/11/25 11:35
Date Received: 08/12/25 08:00

CLIENT ID: 13800 SB03 (5-6)	Lab ID: HN2511283-003
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Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
Ethylbenzene	EPA 8260D	ND		µg/kg	43.6	1	08/18/25 12:37	08/18/25 12:29
Isopropylbenzene	EPA 8260D	ND		µg/kg	43.6	1	08/18/25 12:37	08/18/25 12:29
m+p-Xylene	EPA 8260D	ND		µg/kg	87.1	1	08/18/25 12:37	08/18/25 12:29
Methyl acetate	EPA 8260D	ND		µg/kg	363	1	08/18/25 12:37	08/18/25 12:29
Methyl bromide (Bromomethane)	EPA 8260D	ND		µg/kg	145	1	08/18/25 12:37	08/18/25 12:29
Methyl chloride (Chloromethane)	EPA 8260D	ND		µg/kg	145	1	08/18/25 12:37	08/18/25 12:29
Methyl tert-butyl ether (MTBE)	EPA 8260D	ND		µg/kg	43.6	1	08/18/25 12:37	08/18/25 12:29
Methylcyclohexane	EPA 8260D	ND		µg/kg	43.6	1	08/18/25 12:37	08/18/25 12:29
Methylene chloride (Dichloromethane)	EPA 8260D	ND		µg/kg	363	1	08/18/25 12:37	08/18/25 12:29
o-Xylene	EPA 8260D	ND		µg/kg	43.6	1	08/18/25 12:37	08/18/25 12:29
Styrene	EPA 8260D	ND		µg/kg	43.6	1	08/18/25 12:37	08/18/25 12:29
Tetrachloroethylene (Perchloroethylene)	EPA 8260D	ND		µg/kg	43.6	1	08/18/25 12:37	08/18/25 12:29
Toluene	EPA 8260D	ND		µg/kg	43.6	1	08/18/25 12:37	08/18/25 12:29
Total Xylene	EPA 8260D	ND		µg/kg	131	1	08/18/25 12:37	08/18/25 12:29
trans-1,2-Dichloroethylene	EPA 8260D	ND		µg/kg	43.6	1	08/18/25 12:37	08/18/25 12:29
trans-1,3-Dichloropropylene	EPA 8260D	ND		µg/kg	43.6	1	08/18/25 12:37	08/18/25 12:29
Trichloroethene (Trichloroethylene)	EPA 8260D	ND		µg/kg	43.6	1	08/18/25 12:37	08/18/25 12:29
Trichlorofluoromethane (Fluorotrichloromethane, Freon 11)	EPA 8260D	ND		µg/kg	43.6	1	08/18/25 12:37	08/18/25 12:29
Vinyl chloride (Chloroethene)	EPA 8260D	ND		µg/kg	43.6	1	08/18/25 12:37	08/18/25 12:29
Surr: 1,2-Dichloroethane-d4	EPA 8260D	93.2		%REC	80-120	1	08/18/25 12:37	08/18/25 12:29
Surr: 4-Bromofluorobenzene	EPA 8260D	97.5		%REC	80-120	1	08/18/25 12:37	08/18/25 12:29
Surr: Dibromofluoromethane	EPA 8260D	75.8	S	%REC	80-120	1	08/18/25 12:37	08/18/25 12:29
Surr: Toluene-d8	EPA 8260D	98.4		%REC	80-120	1	08/18/25 12:37	08/18/25 12:29



Client: The Mannik & Smith Group, Inc.
Project: 13800_Tacoma
Matrix: SOIL/SOLID
QC Lot: 2158508

Work Order: HN2511283
Date Collected: NA
Date Received: NA
Run ID: 3397652

General Chemistry Parameters

MB	CLIENT ID: Method Blank	Lab ID: QC-2158508-001
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Method: EPA 3550C **Dilution:** 1 **Analysis Date:** 08/13/25 16:53
Prep Date: NA

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

LCS	CLIENT ID: Laboratory Control Sample	Lab ID: QC-2158508-002
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Method: EPA 3550C **Dilution:** 1 **Analysis Date:** 08/13/25 16:53
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		100.0	98-102			

The following samples were analyzed in this batch: HN2511283-001, HN2511283-002, HN2511283-003



Client: The Mannik & Smith Group, Inc.
Project: 13800_Tacoma
Matrix: SOIL/SOLID
QC Lot: 2158565

Work Order: HN2511283
Date Collected: NA
Date Received: NA
Run ID: 3400098

General Chemistry Parameters

MB	CLIENT ID: Method Blank	Lab ID: QC-2158565-001
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Method: EPA 9056A **Dilution:** 1 **Analysis Date:** 08/14/25 14:17
Prep Date: 08/14/25 11:50

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

LCS	CLIENT ID: Laboratory Control Sample	Lab ID: QC-2158565-002
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Method: EPA 9056A **Dilution:** 1 **Analysis Date:** 08/14/25 14:27
Prep Date: 08/14/25 11:50

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
Chloride	95.3	mg/kg	10.0	100		95.3	87-110			

The following samples were analyzed in this batch: HN2511283-001, HN2511283-002



Client: The Mannik & Smith Group, Inc.
Project: 13800_Tacoma
Matrix: SOIL/SOLID
QC Lot: 2163330

Work Order: HN2511283
Date Collected: NA
Date Received: NA
Run ID: 3405747

General Chemistry Parameters

MB	CLIENT ID: Method Blank	Lab ID: QC-2163330-001
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Method: EPA 9056A **Dilution:** 1 **Analysis Date:** 08/15/25 21:57
Prep Date: 08/15/25 16:38

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

LCS	CLIENT ID: Laboratory Control Sample	Lab ID: QC-2163330-002
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Method: EPA 9056A **Dilution:** 1 **Analysis Date:** 08/15/25 22:06
Prep Date: 08/15/25 16:38

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
Chloride	99.5	mg/kg	10.0	100		99.5	87-110			

The following samples were analyzed in this batch: HN2511283-003

QA/QC Report



Client: The Mannik & Smith Group, Inc.
Project: 13800_Tacoma
Matrix: SOIL/SOLID
QC Lot: 2162042

Work Order: HN2511283
Date Collected: NA
Date Received: NA
Run ID: 3405977

Metals

MB	CLIENT ID: Method Blank	Lab ID: QC-2162042-001
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Method: EPA 6020B**Dilution:** 1**Analysis Date:** 08/16/25 02:22**Prep Date:** 08/15/25 08:38

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

LCS	CLIENT ID: Laboratory Control Sample	Lab ID: QC-2162042-002
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Method: EPA 6020B**Dilution:** 1**Analysis Date:** 08/16/25 02:24**Prep Date:** 08/15/25 08:38

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
Arsenic	4.66	mg/kg	0.250	5		93.3	80-120			
Barium	4.70	mg/kg	0.250	5		94.1	80-120			
Cadmium	4.75	mg/kg	0.100	5		95.1	80-120			
Chromium	4.67	mg/kg	0.250	5		93.4	80-120			
Copper	4.73	mg/kg	0.250	5		94.6	80-120			
Lead	4.72	mg/kg	0.250	5		94.4	80-120			
Selenium	4.58	mg/kg	0.250	5		91.7	80-120			
Silver	4.63	mg/kg	0.250	5		92.5	80-120			
Zinc	4.69	mg/kg	0.500	5		93.8	80-120			

The following samples were analyzed in this batch: HN2511283-001, HN2511283-002, HN2511283-003



Client: The Mannik & Smith Group, Inc.
Project: 13800_Tacoma
Matrix: SOIL/SOLID
QC Lot: 2162145

Work Order: HN2511283
Date Collected: NA
Date Received: NA
Run ID: 3405106

Metals

MB	CLIENT ID: Method Blank	Lab ID: QC-2162145-001
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Method: EPA 7471B **Dilution:** 1 **Analysis Date:** 08/18/25 10:38
Prep Date: 08/15/25 14:36

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

LCS	CLIENT ID: Laboratory Control Sample	Lab ID: QC-2162145-002
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Method: EPA 7471B **Dilution:** 1 **Analysis Date:** 08/18/25 10:39
Prep Date: 08/15/25 14:36

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
Mercury	0.172	mg/kg	0.0200	0.1665		104	80-120			

The following samples were analyzed in this batch: HN2511283-001, HN2511283-002, HN2511283-003



Client: The Mannik & Smith Group, Inc.
Project: 13800_Tacoma
Matrix: SOIL/SOLID
QC Lot: 2156052

Work Order: HN2511283
Date Collected: NA
Date Received: NA
Run ID: 3402980

Volatile Organic Compounds by GC-MS

MB	CLIENT ID: Method Blank	Lab ID: QC-2156052-001
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Method: EPA 8260D

Dilution: 1

Analysis Date: 08/14/25 22:40

Prep Date: 08/12/25 15:49

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



Client: The Mannik & Smith Group, Inc.
Project: 13800_Tacoma
Matrix: SOIL/SOLID
QC Lot: 2156052

Work Order: HN2511283
Date Collected: NA
Date Received: NA
Run ID: 3402980

MB	CLIENT ID: Method Blank	Lab ID: QC-2156052-001
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Method: EPA 8260D

Dilution: 1

Analysis Date: 08/14/25 22:40

Prep Date: 08/12/25 15:49

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
Ethylbenzene	ND	µg/kg	30.0							
Isopropylbenzene	ND	µg/kg	30.0							
m+p-Xylene	ND	µg/kg	60.0							
Methyl acetate	ND	µg/kg	250							
Methyl bromide (Bromomethane)	ND	µg/kg	100							
Methyl chloride (Chloromethane)	ND	µg/kg	100							
Methyl tert-butyl ether (MTBE)	ND	µg/kg	30.0							
Methylcyclohexane	ND	µg/kg	30.0							
Methylene chloride (Dichloromethane)	ND	µg/kg	250							
o-Xylene	ND	µg/kg	30.0							
Styrene	ND	µg/kg	30.0							
Tetrachloroethylene (Perchloroethylene)	ND	µg/kg	30.0							
Toluene	ND	µg/kg	30.0							
Total Xylene	ND	µg/kg	90.0							
trans-1,2-Dichloroethylene	ND	µg/kg	30.0							
trans-1,3-Dichloropropylene	ND	µg/kg	30.0							
Trichloroethene (Trichloroethylene)	ND	µg/kg	30.0							
Trichlorofluoromethane (Fluorotrichloromethane, Freon 11)	ND	µg/kg	30.0							
Vinyl chloride (Chloroethene)	ND	µg/kg	30.0							
Surr: 1,2-Dichloroethane-d4	988	µg/kg		1000		98.8	80-120			
Surr: 4-Bromofluorobenzene	973	µg/kg		1000		97.3	80-120			
Surr: Dibromofluoromethane	914	µg/kg		1000		91.4	80-120			
Surr: Toluene-d8	1030	µg/kg		1000		103	80-120			

LCS	CLIENT ID: Laboratory Control Sample	Lab ID: QC-2156052-002
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Method: EPA 8260D

Dilution: 1

Analysis Date: 08/14/25 22:08

Prep Date: 08/12/25 15:49

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
1,1,1-Trichloroethane	869	µg/kg	30.0	1000		86.9	75-121			
1,1,2,2-Tetrachloroethane	932	µg/kg	30.0	1000		93.2	79-125			
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	866	µg/kg	30.0	1000		86.6	62-129			
1,1,2-Trichloroethane	944	µg/kg	30.0	1000		94.4	80-123			
1,1-Dichloroethane	942	µg/kg	30.0	1000		94.2	74-124			
1,1-Dichloroethylene	862	µg/kg	30.0	1000		86.2	68-131			
1,2,3-Trichlorobenzene	846	µg/kg	100	1000		84.6	60-135			
1,2,3-Trichloropropane	852	µg/kg	30.0	1000		85.2	77-121			
1,2,4-Trichlorobenzene	816	µg/kg	100	1000		81.6	63-130			
1,2,4-Trimethylbenzene	855	µg/kg	30.0	1000		85.5	64-126			
1,2-Dibromo-3-chloropropane (DBCP)	885	µg/kg	100	1000		88.5	55-135			
1,2-Dibromoethane (EDB, Ethylene dibromide)	800	µg/kg	30.0	1000		80.0	63-155			

QA/QC Report



Client: The Mannik & Smith Group, Inc.
Project: 13800_Tacoma
Matrix: SOIL/SOLID
QC Lot: 2156052

Work Order: HN2511283
Date Collected: NA
Date Received: NA
Run ID: 3402980

LCS	CLIENT ID: Laboratory Control Sample	Lab ID: QC-2156052-002
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Method: EPA 8260D

Dilution: 1

Analysis Date: 08/14/25 22:08

Prep Date: 08/12/25 15:49

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
1,2-Dichlorobenzene (o-Dichlorobenzene)	853	µg/kg	30.0	1000		85.3	77-122			
1,2-Dichloroethane (Ethylene dichloride)	890	µg/kg	100	1000		89.0	70-130			
1,2-Dichloropropane	888	µg/kg	30.0	1000		88.8	71-130			
1,3,5-Trimethylbenzene	843	µg/kg	100	1000		84.3	66-130			
1,3-Dichlorobenzene (m-Dichlorobenzene)	842	µg/kg	30.0	1000		84.2	78-121			
1,3-Dichloropropene	1740	µg/kg	60.0	2000		87.0	62-124			
1,4-Dichlorobenzene (p-Dichlorobenzene)	854	µg/kg	30.0	1000		85.4	78-122			
2-Butanone (Methyl ethyl ketone, MEK)	966	µg/kg	200	1000		96.6	47-164			
2-Hexanone	970	µg/kg	30.0	1000		97.0	70-137			
4-Methyl-2-pentanone (MIBK)	1530	µg/kg	30.0	1000		153	57-200			
Acetone	1160	µg/kg	100	1000		116	52-190			
Benzene	946	µg/kg	30.0	1000		94.6	78-122			
Bromochloromethane	900	µg/kg	30.0	1000		90.0	68-130			
Bromodichloromethane	996	µg/kg	30.0	1000		99.6	75-125			
Bromoform	806	µg/kg	30.0	1000		80.6	59-120			
Carbon disulfide	1120	µg/kg	30.0	1000		112	60-163			
Carbon tetrachloride	906	µg/kg	30.0	1000		90.6	69-123			
Chlorobenzene	853	µg/kg	30.0	1000		85.3	79-120			
Chlorodibromomethane	796	µg/kg	30.0	1000		79.6	57-123			
Chloroethane (Ethyl chloride)	1030	µg/kg	100	1000		103	38-132			
Chloroform	878	µg/kg	30.0	1000		87.8	72-122			
cis & trans-1,2-Dichloroethene	1800	µg/kg	60.0	2000		90.0	72-127			
cis-1,2-Dichloroethylene	907	µg/kg	30.0	1000		90.7	74-125			
cis-1,3-Dichloropropene	970	µg/kg	30.0	1000		97.0	62-124			
Dichlorodifluoromethane (Freon-12)	1040	µg/kg	100	1000		104	28-137			
Ethylbenzene	863	µg/kg	30.0	1000		86.3	75-121			
Isopropylbenzene	856	µg/kg	30.0	1000		85.6	74-121			
m+p-Xylene	1780	µg/kg	60.0	2000		88.8	67-129			
Methyl acetate	582	µg/kg	250	1000		58.2	61-125			
Methyl bromide (Bromomethane)	1040	µg/kg	100	1000		104	31-169			
Methyl chloride (Chloromethane)	979	µg/kg	100	1000		97.9	24-119			
Methyl tert-butyl ether (MTBE)	983	µg/kg	30.0	1000		98.3	79-139			
Methylene chloride (Dichloromethane)	876	µg/kg	250	1000		87.6	62-135			
o-Xylene	888	µg/kg	30.0	1000		88.8	75-120			
Styrene	868	µg/kg	30.0	1000		86.8	74-126			
Tetrachloroethylene (Perchloroethylene)	899	µg/kg	30.0	1000		89.9	76-128			
Toluene	924	µg/kg	30.0	1000		92.4	76-120			
Total Xylene	2660	µg/kg	90.0	3000		88.8	67-129			
trans-1,2-Dichloroethylene	894	µg/kg	30.0	1000		89.4	72-127			
trans-1,3-Dichloropropylene	770	µg/kg	30.0	1000		77.0	66-120			
Trichloroethene (Trichloroethylene)	888	µg/kg	30.0	1000		88.8	75-122			

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QA/QC Report



Client: The Mannik & Smith Group, Inc.
Project: 13800_Tacoma
Matrix: SOIL/SOLID
QC Lot: 2156052

Work Order: HN2511283
Date Collected: NA
Date Received: NA
Run ID: 3402980

LCS	CLIENT ID: Laboratory Control Sample	Lab ID: QC-2156052-002
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Method: EPA 8260D

Dilution: 1

Analysis Date: 08/14/25 22:08

Prep Date: 08/12/25 15:49

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
Trichlorofluoromethane (Fluorotrichloromethane, Freon 11)	818	µg/kg	30.0	1000		81.8	51-115			
Vinyl chloride (Chloroethene)	1090	µg/kg	30.0	1000		109	43-128			
<i>Surr: 1,2-Dichloroethane-d4</i>	1000	<i>µg/kg</i>		1000		100	80-120			
<i>Surr: 4-Bromofluorobenzene</i>	957	<i>µg/kg</i>		1000		95.7	80-120			
<i>Surr: Dibromofluoromethane</i>	1040	<i>µg/kg</i>		1000		104	80-120			
<i>Surr: Toluene-d8</i>	955	<i>µg/kg</i>		1000		95.5	80-120			

The following samples were analyzed in this batch: HN2511283-001, HN2511283-002, HN2511283-003



Client: The Mannik & Smith Group, Inc.
Project: 13800_Tacoma
Matrix: SOIL/SOLID
QC Lot: 2166362

Work Order: HN2511283
Date Collected: NA
Date Received: NA
Run ID: 3410072

Volatile Organic Compounds by GC-MS

MB	CLIENT ID: Method Blank	Lab ID: QC-2166362-001
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Method: EPA 8260D

Dilution: 1

Analysis Date: 08/18/25 12:38

Prep Date: 08/18/25 12:30

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

QA/QC Report



Client: The Mannik & Smith Group, Inc.
Project: 13800_Tacoma
Matrix: SOIL/SOLID
QC Lot: 2166362

Work Order: HN2511283
Date Collected: NA
Date Received: NA
Run ID: 3410072

MB	CLIENT ID: Method Blank	Lab ID: QC-2166362-001
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Method: EPA 8260D **Dilution:** 1 **Analysis Date:** 08/18/25 12:38

Prep Date: 08/18/25 12:30

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
Ethylbenzene	ND	µg/kg	30.0							
Isopropylbenzene	ND	µg/kg	30.0							
m+p-Xylene	ND	µg/kg	60.0							
Methyl acetate	ND	µg/kg	250							
Methyl bromide (Bromomethane)	ND	µg/kg	100							
Methyl chloride (Chloromethane)	ND	µg/kg	100							
Methyl tert-butyl ether (MTBE)	ND	µg/kg	30.0							
Methylcyclohexane	ND	µg/kg	30.0							
Methylene chloride (Dichloromethane)	ND	µg/kg	250							
o-Xylene	ND	µg/kg	30.0							
Styrene	ND	µg/kg	30.0							
Tetrachloroethylene (Perchloroethylene)	ND	µg/kg	30.0							
Toluene	ND	µg/kg	30.0							
Total Xylene	ND	µg/kg	90.0							
trans-1,2-Dichloroethylene	ND	µg/kg	30.0							
trans-1,3-Dichloropropylene	ND	µg/kg	30.0							
Trichloroethene (Trichloroethylene)	ND	µg/kg	30.0							
Trichlorofluoromethane (Fluorotrichloromethane, Freon 11)	ND	µg/kg	30.0							
Vinyl chloride (Chloroethene)	ND	µg/kg	30.0							
Surr: 1,2-Dichloroethane-d4	973	µg/kg		1000		97.3	80-120			
Surr: 4-Bromofluorobenzene	984	µg/kg		1000		98.4	80-120			
Surr: Dibromofluoromethane	946	µg/kg		1000		94.6	72-120			
Surr: Toluene-d8	986	µg/kg		1000		98.6	80-120			

LCS	CLIENT ID: Laboratory Control Sample	Lab ID: QC-2166362-002
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Method: EPA 8260D **Dilution:** 1 **Analysis Date:** 08/18/25 12:38

Prep Date: 08/18/25 12:30

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
1,1,1-Trichloroethane	906	µg/kg	30.0	1000		90.6	75-121			
1,1,2,2-Tetrachloroethane	926	µg/kg	30.0	1000		92.6	79-125			
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	918	µg/kg	30.0	1000		91.8	62-129			
1,1,2-Trichloroethane	888	µg/kg	30.0	1000		88.8	80-123			
1,1-Dichloroethane	1040	µg/kg	30.0	1000		104	74-124			
1,1-Dichloroethylene	1010	µg/kg	30.0	1000		101	68-131			
1,2,3-Trichlorobenzene	957	µg/kg	100	1000		95.7	60-135			
1,2,3-Trichloropropane	890	µg/kg	30.0	1000		89.0	77-121			
1,2,4-Trichlorobenzene	953	µg/kg	100	1000		95.3	63-130			
1,2,4-Trimethylbenzene	912	µg/kg	30.0	1000		91.2	64-126			
1,2-Dibromo-3-chloropropane (DBCP)	819	µg/kg	100	1000		81.9	55-135			
1,2-Dibromoethane (EDB, Ethylene dibromide)	872	µg/kg	30.0	1000		87.2	63-155			

QA/QC Report



Client: The Mannik & Smith Group, Inc.
Project: 13800_Tacoma
Matrix: SOIL/SOLID
QC Lot: 2166362

Work Order: HN2511283
Date Collected: NA
Date Received: NA
Run ID: 3410072

LCS	CLIENT ID: Laboratory Control Sample	Lab ID: QC-2166362-002
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Method: EPA 8260D

Dilution: 1

Analysis Date: 08/18/25 12:38

Prep Date: 08/18/25 12:30

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
1,2-Dichlorobenzene (o-Dichlorobenzene)	900	µg/kg	30.0	1000		90.0	77-122			
1,2-Dichloroethane (Ethylene dichloride)	929	µg/kg	100	1000		92.9	70-130			
1,2-Dichloropropane	915	µg/kg	30.0	1000		91.5	71-130			
1,3,5-Trimethylbenzene	940	µg/kg	100	1000		94.0	66-130			
1,3-Dichlorobenzene (m-Dichlorobenzene)	898	µg/kg	30.0	1000		89.8	78-121			
1,3-Dichloropropene	1490	µg/kg	60.0	2000		74.3	62-124			
1,4-Dichlorobenzene (p-Dichlorobenzene)	919	µg/kg	30.0	1000		91.9	78-122			
2-Butanone (Methyl ethyl ketone, MEK)	1010	µg/kg	200	1000		101	47-164			
2-Hexanone	926	µg/kg	30.0	1000		92.6	70-137			
4-Methyl-2-pentanone (MIBK)	1260	µg/kg	30.0	1000		126	57-200			
Acetone	1390	µg/kg	100	1000		139	52-190			
Benzene	970	µg/kg	30.0	1000		97.0	78-122			
Bromochloromethane	924	µg/kg	30.0	1000		92.4	68-130			
Bromodichloromethane	856	µg/kg	30.0	1000		85.6	75-125			
Bromoform	770	µg/kg	30.0	1000		77.0	59-120			
Carbon disulfide	1190	µg/kg	30.0	1000		119	60-163			
Carbon tetrachloride	938	µg/kg	30.0	1000		93.8	69-123			
Chlorobenzene	903	µg/kg	30.0	1000		90.3	79-120			
Chlorodibromomethane	674	µg/kg	30.0	1000		67.4	57-123			
Chloroethane (Ethyl chloride)	972	µg/kg	100	1000		97.2	38-132			
Chloroform	938	µg/kg	30.0	1000		93.8	72-122			
cis & trans-1,2-Dichloroethene	1930	µg/kg	60.0	2000		96.7	72-127			
cis-1,2-Dichloroethylene	952	µg/kg	30.0	1000		95.2	74-125			
cis-1,3-Dichloropropene	816	µg/kg	30.0	1000		81.6	62-124			
Dichlorodifluoromethane (Freon-12)	837	µg/kg	100	1000		83.7	28-137			
Ethylbenzene	937	µg/kg	30.0	1000		93.7	75-121			
Isopropylbenzene	923	µg/kg	30.0	1000		92.3	74-121			
m+p-Xylene	1870	µg/kg	60.0	2000		93.7	67-129			
Methyl acetate	926	µg/kg	250	1000		92.6	61-125			
Methyl bromide (Bromomethane)	902	µg/kg	100	1000		90.2	31-169			
Methyl chloride (Chloromethane)	921	µg/kg	100	1000		92.1	24-119			
Methyl tert-butyl ether (MTBE)	946	µg/kg	30.0	1000		94.6	79-139			
Methylene chloride (Dichloromethane)	988	µg/kg	250	1000		98.8	62-135			
o-Xylene	926	µg/kg	30.0	1000		92.6	75-120			
Styrene	895	µg/kg	30.0	1000		89.5	74-126			
Tetrachloroethylene (Perchloroethylene)	922	µg/kg	30.0	1000		92.2	76-128			
Toluene	932	µg/kg	30.0	1000		93.2	76-120			
Total Xylene	2800	µg/kg	90.0	3000		93.3	67-129			
trans-1,2-Dichloroethylene	982	µg/kg	30.0	1000		98.2	72-127			
trans-1,3-Dichloropropylene	671	µg/kg	30.0	1000		67.1	66-120			
Trichloroethene (Trichloroethylene)	886	µg/kg	30.0	1000		88.6	75-122			

QA/QC Report



Client: The Mannik & Smith Group, Inc.
Project: 13800_Tacoma
Matrix: SOIL/SOLID
QC Lot: 2166362

Work Order: HN2511283
Date Collected: NA
Date Received: NA
Run ID: 3410072

LCS	CLIENT ID: Laboratory Control Sample	Lab ID: QC-2166362-002
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Method: EPA 8260D

Dilution: 1

Analysis Date: 08/18/25 12:38

Prep Date: 08/18/25 12:30

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
Trichlorofluoromethane (Fluorotrichloromethane, Freon 11)	874	µg/kg	30.0	1000		87.4	51-115			
Vinyl chloride (Chloroethene)	1030	µg/kg	30.0	1000		103	43-128			
<i>Surr: 1,2-Dichloroethane-d4</i>	960	<i>µg/kg</i>		1000		96.0	80-120			
<i>Surr: 4-Bromofluorobenzene</i>	990	<i>µg/kg</i>		1000		99.0	80-120			
<i>Surr: Dibromofluoromethane</i>	980	<i>µg/kg</i>		1000		98.0	72-120			
<i>Surr: Toluene-d8</i>	980	<i>µg/kg</i>		1000		98.0	80-120			

The following samples were analyzed in this batch: HN2511283-001, HN2511283-002, HN2511283-003

ANALYST SUMMARY



Client: The Mannik & Smith Group, Inc.
Project: 13800_Tacoma

Work Order: HN2511283

Sample Name: 13800 SB01 (1-2)
Laboratory Code: HN2511283-001
Sample Matrix: SOIL/SOLID

Date Collected: 08/11/25
Date Received: 08/12/25

Analysis Method	Preparation Method	Container ID	Preparation Lot	Prepared By	Analysis Lot	Analyzed By
EPA 3550C		001-AC	2158508		3397652	Nicole Maleski
EPA 6020B	EPA 3050B	001-AC	2162042	Chloe Patrick	3405977	Dale Schipper
EPA 6020B	EPA 3050B	001-AC	2162042	Chloe Patrick	3410505	Dale Schipper
EPA 7471B	Method	001-AC	2162145	Maxx Richey	3405106	Dale Schipper
EPA 8081B		001-AD			3456080	Bill Carey
EPA 8082A		001-AD			3456080	Bill Carey
EPA 8151A		001-AD			3456080	Bill Carey
EPA 8260D	EPA 5035A	001-AA	2156052	Jonathan Vazquez	3403304	Dale Schipper
EPA 8260D	EPA 5035A	001-AA	2156052	Jonathan Vazquez	3404823	Dale Schipper
EPA 8260D	EPA 5035A	001-AA	2166362	John Garvale	3410072	Dale Schipper
EPA 8270E		001-AD			3456080	Bill Carey
EPA 9056A	EPA 9056A	001-AC	2158565	Sage Hansen	3400098	Dale Schipper

Sample Name: 13800 SB02 (3-4)
Laboratory Code: HN2511283-002
Sample Matrix: SOIL/SOLID

Date Collected: 08/11/25
Date Received: 08/12/25

Analysis Method	Preparation Method	Container ID	Preparation Lot	Prepared By	Analysis Lot	Analyzed By
EPA 3550C		002-AC	2158508		3397652	Nicole Maleski
EPA 6020B	EPA 3050B	002-AC	2162042	Chloe Patrick	3405977	Dale Schipper
EPA 7471B	Method	002-AC	2162145	Maxx Richey	3405106	Dale Schipper
EPA 8081B		002-AD			3456080	Bill Carey
EPA 8082A		002-AD			3456080	Bill Carey
EPA 8151A		002-AD			3456080	Bill Carey
EPA 8260D	EPA 5035A	002-AA	2156052	Jonathan Vazquez	3403304	Dale Schipper
EPA 8260D	EPA 5035A	002-AA	2156052	Jonathan Vazquez	3404823	Dale Schipper
EPA 8260D	EPA 5035A	002-AA	2166362	John Garvale	3410072	Dale Schipper
EPA 8270E		002-AD			3456080	Bill Carey
EPA 9056A	EPA 9056A	002-AC	2158565	Sage Hansen	3400098	Dale Schipper

ANALYST SUMMARY



Client: The Mannik & Smith Group, Inc.
Project: 13800_Tacoma

Work Order: HN2511283

Sample Name: 13800 SB03 (5-6)
Laboratory Code: HN2511283-003
Sample Matrix: SOIL/SOLID

Date Collected: 08/11/25
Date Received: 08/12/25

Analysis Method	Preparation Method	Container ID	Preparation Lot	Prepared By	Analysis Lot	Analyzed By
EPA 3550C	EPA 3050B Method	003-AC	2158508	Chloe Patrick Maxx Richey	3397652	Nicole Maleski
EPA 6020B		003-AC	2162042		3405977	Dale Schipper
EPA 7471B		003-AC	2162145		3405106	Dale Schipper
EPA 8081B		003-AD			3456080	Bill Carey
EPA 8082A		003-AD			3456080	Bill Carey
EPA 8151A	EPA 5035A	003-AD		Jonathan Vazquez Jonathan Vazquez John Garvale	3456080	Bill Carey
EPA 8260D		003-AA	2156052		3403304	Dale Schipper
EPA 8260D		003-AA	2156052		3404823	Dale Schipper
EPA 8260D		003-AA	2166362		3410072	Dale Schipper
EPA 8270E		003-AD			3456080	Bill Carey
EPA 9056A	EPA 9056A	003-AC	2163330	Quoc Nguyen	3405747	Dale Schipper



ALS Environmental

Laboratory location:

Chain of Custody Form

Page 1 of 1

Customer Information		Project Information					Parameter/Method Request for Analysis													
Purchase Order		Project Name	13800_Tacoma				A	VOCs (U.S. EPA Method 8260C (or Method 8260))												
Work Order		Project Number	DETR0060				B	SVOCs (U.S. EPA Method 8270D (or Method 8270))												
Company Name	The Mannik and Smith Group	Billed To Company	The Mannik and Smith Group				C	PCBs (U.S. EPA Method 8082)												
Send Report To	Ryan Montri	Invoice Attn.					D	Mi 10 Metals (U.S. EPA 6000/7000 Series Methods)												
Address	2365 Haggerty Rd South Suite 100	Address	2365 Haggerty Rd South Suite 100				E	Chorides (U.S. EPA Method 9056A)												
							F	Pesticides (U.S. EPA Method 8081B (or Method 8081))												
City/State/Zip	Canton, MI 48188	City/State/Zip	Canton, MI 48188				G	Herbicides (U.S. EPA Method 8151A (or Method 8151))												
Phone	734-397-3100	Phone	734-397-3100				H													
Fax		Fax					I													
e-Mail Address	RMontri@manniksmithgroup.com	e-Mail Address					J													
No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J				
1	13800 SB01 (1-2)	8/11/25	11:11	Soil	7	3	X	X	X	X	X	X	X							
2	13800 SB02 (3-4)	8/11/25	11:20	Soil	7	3	X	X	X	X	X	X	X							
3	13800 SB03 (5-6)	8/11/25	11:35	Soil	7	3	X	X	X	X	X	X	X							
4																				
5																				
6																				
7																				
8																				
9																				
10																				
Sampler(s): Please Print & Sign		Shipment Method:		Required Turnaround Time:			☐ STD 10 Wk Days			☒ 5 Wk Days			☐ 2 Wk Days			☐ 24 Hour			Results Due Date:	
Relinquished by:		Date:	Time:	Received by:			Notes:			Quote# HN-061825-M&S-MA			8/12/25			0700				
Relinquished by:		Date:	Time:	Received by (Laboratory):			Cooler Temp.			QC Package: (Check Box Below)			Level II: Standard QC			TRRP-Checklist				
Logged by (Laboratory):		Date:	Time:	Checked by (Laboratory):			IRG 5.6C			Level III: Std QC + Raw Data			Level IV: SW846 CLP-Like			TRRP Level IV				
Preservative Key: 1-HCL 2-HNO3 3-H2SO4 4-NaOH 5-Na2S2O3 6-NaHSO4 7-Other 8-4 degrees C 9-5035																	Other:			

Environmental Division
Holland
Work Order Reference
HN2511283

Telephone : +1 616 399 6070

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

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

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ALS Holland Sample Receiving Checklist

Received by:

BC

Date/Time:

8/14/25 0800

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):

9.6°C

Thermometer(s):

IR6

Sample(s) received on ice?

☒ Yes / No

Matrix/Matrices:

Soil

Cooler(s)/Kit(s):

Date/Time sample(s) sent to storage:

8/14/25 13:55

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:



November 19, 2025

Service Request No:R2510153

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

Laboratory Results for: 13800_Tacoma

Dear Bill,

Enclosed are the results of the sample(s) submitted to our laboratory August 20, 2025
For your reference, these analyses have been assigned our service request number **R2510153**.

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

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

Respectfully submitted,

ALS Group USA, Corp. dba ALS Environmental

Christopher Leavy
Project Manager

ADDRESS

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

PHONE

+1 585 288 5380

FAX

+1 585 288 8475

ALS Group USA, Corp.
dba ALS Environmental



Narrative Documents

ALS Environmental—Rochester Laboratory

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

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

www.alsglobal.com

Client: ALS Environmental - US
Project: 13800_Tacoma
Sample Matrix: Soil

Service Request: R2510153
Date Received: 08/20/2025

CASE NARRATIVE

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

Sample Receipt:

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

Semivolatiles by GC/MS:

Method 8270E, 890799: The reporting limit is elevated for one or more analytes. The sample extract was diluted prior to instrumental analysis due to relatively high levels of non-target background components. The extract was highly colored and viscous, which indicated the need to perform a dilution prior to injection into the instrument. The result(s) are flagged to indicate the matrix interference.

Method 8270E, 08/25/2025: The upper control limit was exceeded for one or more analytes in the Continuing Calibration Verification (CCV). The field samples analyzed in this sequence did not contain the analyte(s) in question above the Method Reporting Limit (MRL). Since the exceedance equates to a potential high bias, the data quality was not significantly affected and no further corrective action was taken.

Method 8270E, 891027: The reporting limit is elevated for one or more analytes. The sample extract was diluted prior to instrumental analysis due to relatively high levels of non-target background components. The extract was highly colored and viscous, which indicated the need to perform a dilution prior to injection into the instrument. The result(s) are flagged to indicate the matrix interference.

Semivolatile GC:

Method 8081B, 08/25/2025: The control limits were exceeded for analytes in the Continuing Calibration Verification (CCV). The QC failure was most likely due to the composition of the sample(s) immediately preceding the failing CCV. In order to protect the integrity of the instrument, no further corrective action was taken. Results should be considered estimated.

Method 8082A, 08/25/2025: The control limit was exceeded for one or more surrogates in the Continuing Calibration Verification (CCV). The surrogates were within acceptance limits for the associated field samples. The data quality was not significantly affected and no further corrective action was taken.

General Chemistry:

No significant anomalies were noted with this analysis.

Approved by 

Date 11/19/2025

SAMPLE DETECTION SUMMARY

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

CLIENT ID: 13800 SB01 (1-2)	Lab ID: R2510153-001
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Analyte	Results	Flag	MDL	MRL	Units	Method
4,4'-DDD	14		1.4	2.8	ug/Kg	8081B
4,4'-DDE	44		1.4	2.8	ug/Kg	8081B
4,4'-DDT	14		1.4	2.8	ug/Kg	8081B
alpha-Chlordane	46		1.4	2.8	ug/Kg	8081B
gamma-Chlordane	19		1.4	2.8	ug/Kg	8081B
Total Solids	90.1				Percent	ALS SOP

CLIENT ID: 13800 SB02 (3-4)	Lab ID: R2510153-002
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Analyte	Results	Flag	MDL	MRL	Units	Method
4,4'-DDD	5.8		1.4	2.8	ug/Kg	8081B
4,4'-DDE	6.2		1.4	2.8	ug/Kg	8081B
4,4'-DDT	4.4	P	1.4	2.8	ug/Kg	8081B
alpha-Chlordane	5.1		1.4	2.8	ug/Kg	8081B
Aroclor 1248	76		30	53	ug/Kg	8082A
Dieldrin	3.4		1.4	2.8	ug/Kg	8081B
gamma-Chlordane	5.7		1.4	2.8	ug/Kg	8081B
Total Solids	90.5				Percent	ALS SOP

CLIENT ID: 13800 SB03 (5-6)	Lab ID: R2510153-003
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Analyte	Results	Flag	MDL	MRL	Units	Method
4,4'-DDE	14		1.6	3.1	ug/Kg	8081B
alpha-Chlordane	9.1		1.6	3.1	ug/Kg	8081B
gamma-Chlordane	4.4		1.6	3.1	ug/Kg	8081B
Total Solids	83.0				Percent	ALS SOP



Sample Receipt Information

ALS Environmental—Rochester Laboratory

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

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

www.alsglobal.com

Client: ALS Environmental - US
Project: 13800_Tacoma

Service Request:R2510153

SAMPLE CROSS-REFERENCE

<u>SAMPLE #</u>	<u>CLIENT SAMPLE ID</u>	<u>DATE</u>	<u>TIME</u>
R2510153-001	13800 SB01 (1-2)	8/11/2025	1111
R2510153-002	13800 SB02 (3-4)	8/11/2025	1120
R2510153-003	13800 SB03 (5-6)	8/11/2025	1135

ALS Group USA, Corp.

3352 128th Ave Holland Michigan 49424 United States
T+1 616 399 6070 | F



right solutions.
right partner.

Subcontract Chain of Custody

SAMPLING STATE:

COC ID: HN2511283

Subcontract To:

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

Due Date: 08/21/2025

Analysis Report Format: ALS Standard – Level II

Electronic Data Deliverable:

Customer Information		Project Information		Parameter/Method Request for Analysis					
Purchase Order		Project Name	13800_Tacoma	A	EPA 8081B-3546-S (INT SUB)				
Work Order	HN2511283			B	EPA 8082A-3546-S (INT SUB)				
Company Name	Holland - Environmental	Bill To Company	Holland - Environmental	C	EPA 8151A-S (INT SUB)				
Send Report To	Bill Carey	Inv Attn	Accounts Payable	D	EPA 8270E-TCL-3546-S (INT SUB)				
Address	3352 128th Ave	Address	3352 128th Ave	E					
				F					
City/State/Zip	Holland Michigan 49424	City/State/Zip	Holland Michigan 49424	G					
Phone	+1 616 399 6070	Phone	+1 616 399 6070	H					
Fax		Fax		I					
Email Address	bill.carey@alsglobal.com			J					

ALS Sample ID	Client Sample ID	Matrix	Collection Date	Bottle	A	B	C	D	E	F	G	H	I	J
HN2511283-001	13800 SB01 (1-2)	Soil/Solid	08/11/2025 11:11	001-AD	x	x	x	x						
HN2511283-002	13800 SB02 (3-4)	Soil/Solid	08/11/2025 11:20	002-AD	x	x	x	x						
HN2511283-003	13800 SB03 (5-6)	Soil/Solid	08/11/2025 11:35	003-AD	x	x	x	x						

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

Received by
8/20/25 9:30

8/20/25 9:30

R2510153 **5**

ALS Environmental - Holland
13800_Tacoma





Cooler Receipt and Preservation Check Form

R2510153

ALS Environmental - Holland
13800_Tacoma

5



Project/Client _____ Folder Number _____

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

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

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

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

Temp (°C)	<u>4.7</u>	<u>4.5</u>	<u>5.5</u>				
Within 0-6°C?	<u>Y</u> N	<u>Y</u> N	<u>Y</u> N	Y N	Y N	Y N	Y N
If <0°C, were samples frozen?	Y N	Y N	Y N	Y N	Y N	Y N	Y N

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

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

All samples held in storage location: SMO by RM on 8/20 at 12:16
5035 samples placed in storage location: _____ by _____ on _____ at _____ within 48 hours of sampling? Y NCooler Breakdown/Preservation Check**: Date: 8/20/25 Time: 15:06 by: MM

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

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

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

Bottle lot numbers: 002325-1SR

Explain all Discrepancies/ Other Comments:

HPROD	BULK
HTR	FLDT
SUB	HGFB
ALS	LL3541

Labels secondary reviewed by: MM

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



Miscellaneous Forms

ALS Environmental—Rochester Laboratory

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

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

www.alsglobal.com



REPORT QUALIFIERS AND DEFINITIONS

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

Rochester Lab ID # for State Accreditations¹



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

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

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

ALS Laboratory Group

Acronyms

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

Client: ALS Environmental - US
Project: 13800_Tacoma

Service Request: R2510153

Non-Certified Analytes

Certifying Agency: New York Department of Health

Method	Matrix	Analyte
8270E	Soil	1-Methylnaphthalene
ALS SOP	Soil	Total Solids

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Analyst Summary report

Client: ALS Environmental - US
Project: 13800_Tacoma/

Service Request: R2510153

Sample Name: 13800 SB01 (1-2)
Lab Code: R2510153-001
Sample Matrix: Soil

Date Collected: 08/11/25
Date Received: 08/20/25

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

Sample Name: 13800 SB02 (3-4)
Lab Code: R2510153-002
Sample Matrix: Soil

Date Collected: 08/11/25
Date Received: 08/20/25

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

Sample Name: 13800 SB03 (5-6)
Lab Code: R2510153-003
Sample Matrix: Soil

Date Collected: 08/11/25
Date Received: 08/20/25

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



PREPARATION METHODS

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

INORGANIC

Water/Liquid Matrix

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

Solid/Soil/Non-Aqueous Matrix

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

ORGANIC

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

Regarding "Bulk/5035A":

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



Sample Results

ALS Environmental—Rochester Laboratory

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

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Semivolatile Organic Compounds by GC/MS

ALS Environmental—Rochester Laboratory

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

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

www.alsglobal.com

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: ALS Environmental - US
Project: 13800_Tacoma
Sample Matrix: Soil

Service Request: R2510153
Date Collected: 08/11/25 11:11
Date Received: 08/20/25 09:30

Sample Name: 13800 SB01 (1-2)
Lab Code: R2510153-001

Units: ug/Kg
Basis: Dry

Semivolatile Organic Compounds by GC/MS using Microwave Digestion

Analysis Method: 8270E
Prep Method: EPA 3546

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
1,2,4,5-Tetrachlorobenzene	810 U	3700	810	10	08/25/25 10:38	8/21/25	
1-Methylnaphthalene	670 U	3700	670	10	08/25/25 10:38	8/21/25	
2-Methylnaphthalene	1300 U	3700	1300	10	08/25/25 10:38	8/21/25	
Acenaphthene	690 U	3700	690	10	08/25/25 10:38	8/21/25	
Acenaphthylene	740 U	3700	740	10	08/25/25 10:38	8/21/25	
Anthracene	610 U	3700	610	10	08/25/25 10:38	8/21/25	
Benz(a)anthracene	550 U	3700	550	10	08/25/25 10:38	8/21/25	
Benzo(a)pyrene	970 U	3700	970	10	08/25/25 10:38	8/21/25	
Benzo(b)fluoranthene	610 U	3700	610	10	08/25/25 10:38	8/21/25	
Benzo(g,h,i)perylene	840 U	3700	840	10	08/25/25 10:38	8/21/25	
Benzo(k)fluoranthene	590 U	3700	590	10	08/25/25 10:38	8/21/25	
1,4-Dichlorobenzene	610 U	3700	610	10	08/25/25 10:38	8/21/25	
Biphenyl	1100 U	3700	1100	10	08/25/25 10:38	8/21/25	
Chrysene	540 U	3700	540	10	08/25/25 10:38	8/21/25	
Dibenz(a,h)anthracene	800 U	3700	800	10	08/25/25 10:38	8/21/25	
1,4-Dioxane	360 U	740	360	10	08/25/25 10:38	8/21/25	
Dibenzofuran	670 U	3700	670	10	08/25/25 10:38	8/21/25	
Fluoranthene	920 U	3700	920	10	08/25/25 10:38	8/21/25	
Fluorene	690 U	3700	690	10	08/25/25 10:38	8/21/25	
Indeno(1,2,3-cd)pyrene	1200 U	3700	1200	10	08/25/25 10:38	8/21/25	
Naphthalene	690 U	3700	690	10	08/25/25 10:38	8/21/25	
Phenanthrene	520 U	3700	520	10	08/25/25 10:38	8/21/25	
Pyrene	610 U	3700	610	10	08/25/25 10:38	8/21/25	
2,3,4,6-Tetrachlorophenol	1300 U	3700	1300	10	08/25/25 10:38	8/21/25	
2,4,5-Trichlorophenol	900 U	3700	900	10	08/25/25 10:38	8/21/25	
2,4,6-Trichlorophenol	820 U	3700	820	10	08/25/25 10:38	8/21/25	
2,4-Dichlorophenol	710 U	3700	710	10	08/25/25 10:38	8/21/25	
2,4-Dimethylphenol	660 U	3700	660	10	08/25/25 10:38	8/21/25	
2,4-Dinitrophenol	6200 U	19000	6200	10	08/25/25 10:38	8/21/25	
2,4-Dinitrotoluene	1500 U	3700	1500	10	08/25/25 10:38	8/21/25	
2,6-Dinitrotoluene	800 U	3700	800	10	08/25/25 10:38	8/21/25	
2-Chloronaphthalene	730 U	3700	730	10	08/25/25 10:38	8/21/25	
2-Chlorophenol	610 U	3700	610	10	08/25/25 10:38	8/21/25	
2-Methylphenol	760 U	3700	760	10	08/25/25 10:38	8/21/25	
2-Nitroaniline	870 U	19000	870	10	08/25/25 10:38	8/21/25	
2-Nitrophenol	850 U	3700	850	10	08/25/25 10:38	8/21/25	
3,3'-Dichlorobenzidine	1400 U	3700	1400	10	08/25/25 10:38	8/21/25	
3- and 4-Methylphenol Coelution	700 U	3700	700	10	08/25/25 10:38	8/21/25	
3-Nitroaniline	740 U	19000	740	10	08/25/25 10:38	8/21/25	
4,6-Dinitro-2-methylphenol	2100 U	19000	2100	10	08/25/25 10:38	8/21/25	
4-Bromophenyl Phenyl Ether	960 U	3700	960	10	08/25/25 10:38	8/21/25	
4-Chloro-3-methylphenol	740 U	3700	740	10	08/25/25 10:38	8/21/25	
4-Chloroaniline	1400 U	3700	1400	10	08/25/25 10:38	8/21/25	

ALS Group USA, Corp.
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Analytical Report

Client: ALS Environmental - US
Project: 13800_Tacoma
Sample Matrix: Soil

Service Request: R2510153
Date Collected: 08/11/25 11:11
Date Received: 08/20/25 09:30

Sample Name: 13800 SB01 (1-2)
Lab Code: R2510153-001

Units: ug/Kg
Basis: Dry

Semivolatile Organic Compounds by GC/MS using Microwave Digestion

Analysis Method: 8270E
Prep Method: EPA 3546

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
4-Chlorophenyl Phenyl Ether	780 U	3700	780	10	08/25/25 10:38	8/21/25	
4-Nitroaniline	790 U	19000	790	10	08/25/25 10:38	8/21/25	
4-Nitrophenol	1900 U	19000	1900	10	08/25/25 10:38	8/21/25	
Acetophenone	1100 U	3700	1100	10	08/25/25 10:38	8/21/25	
Atrazine	1100 U	3700	1100	10	08/25/25 10:38	8/21/25	
Benzaldehyde	890 U	19000	890	10	08/25/25 10:38	8/21/25	
Benzoic Acid	5800 U	19000	5800	10	08/25/25 10:38	8/21/25	
Bis(1-chloroisopropyl) Ether	750 U	3700	750	10	08/25/25 10:38	8/21/25	
Bis(2-chloroethoxy)methane	900 U	3700	900	10	08/25/25 10:38	8/21/25	
Bis(2-chloroethyl) Ether	720 U	3700	720	10	08/25/25 10:38	8/21/25	
Bis(2-ethylhexyl) Phthalate	670 U	5500	670	10	08/25/25 10:38	8/21/25	
Butyl Benzyl Phthalate	1100 U	3700	1100	10	08/25/25 10:38	8/21/25	
Caprolactam	810 U	3700	810	10	08/25/25 10:38	8/21/25	
Carbazole	600 U	3700	600	10	08/25/25 10:38	8/21/25	
Di-n-butyl Phthalate	590 U	3700	590	10	08/25/25 10:38	8/21/25	
Di-n-octyl Phthalate	1300 U	3700	1300	10	08/25/25 10:38	8/21/25	
Diethyl Phthalate	650 U	3700	650	10	08/25/25 10:38	8/21/25	
Dimethyl Phthalate	700 U	3700	700	10	08/25/25 10:38	8/21/25	
Hexachlorobenzene	880 U	3700	880	10	08/25/25 10:38	8/21/25	
Hexachlorobutadiene	1300 U	3700	1300	10	08/25/25 10:38	8/21/25	
Hexachlorocyclopentadiene	1200 U	3700	1200	10	08/25/25 10:38	8/21/25	
Hexachloroethane	690 U	3700	690	10	08/25/25 10:38	8/21/25	
Isophorone	770 U	3700	770	10	08/25/25 10:38	8/21/25	
N-Nitrosodi-n-propylamine	1200 U	3700	1200	10	08/25/25 10:38	8/21/25	
N-Nitrosodiphenylamine	2300 U	3700	2300	10	08/25/25 10:38	8/21/25	
Nitrobenzene	660 U	3700	660	10	08/25/25 10:38	8/21/25	
Pentachlorophenol (PCP)	3700 U	19000	3700	10	08/25/25 10:38	8/21/25	
Phenol	740 U	3700	740	10	08/25/25 10:38	8/21/25	
Pyridine	490 U	19000	490	10	08/25/25 10:38	8/21/25	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2-Fluorobiphenyl	70	18 - 104	08/25/25 10:38	
Nitrobenzene-d5	70	12 - 98	08/25/25 10:38	
p-Terphenyl-d14	83	26 - 134	08/25/25 10:38	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: ALS Environmental - US
Project: 13800_Tacoma
Sample Matrix: Soil

Service Request: R2510153
Date Collected: 08/11/25 11:20
Date Received: 08/20/25 09:30

Sample Name: 13800 SB02 (3-4)
Lab Code: R2510153-002

Units: ug/Kg
Basis: Dry

Semivolatile Organic Compounds by GC/MS using Microwave Digestion

Analysis Method: 8270E
Prep Method: EPA 3546

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
1-Methylnaphthalene	340 U	1800	340	5	08/21/25 16:35	8/21/25	
1,2,4,5-Tetrachlorobenzene	410 U	1800	410	5	08/21/25 16:35	8/21/25	
2-Methylnaphthalene	640 U	1800	640	5	08/21/25 16:35	8/21/25	
Acenaphthene	350 U	1800	350	5	08/21/25 16:35	8/21/25	
Acenaphthylene	370 U	1800	370	5	08/21/25 16:35	8/21/25	
Anthracene	310 U	1800	310	5	08/21/25 16:35	8/21/25	
Benz(a)anthracene	270 U	1800	270	5	08/21/25 16:35	8/21/25	
Benzo(a)pyrene	490 U	1800	490	5	08/21/25 16:35	8/21/25	
Benzo(b)fluoranthene	310 U	1800	310	5	08/21/25 16:35	8/21/25	
Benzo(g,h,i)perylene	420 U	1800	420	5	08/21/25 16:35	8/21/25	
1,4-Dichlorobenzene	310 U	1800	310	5	08/21/25 16:35	8/21/25	
Benzo(k)fluoranthene	300 U	1800	300	5	08/21/25 16:35	8/21/25	
Biphenyl	540 U	1800	540	5	08/21/25 16:35	8/21/25	
Chrysene	270 U	1800	270	5	08/21/25 16:35	8/21/25	
1,4-Dioxane	180 U	370	180	5	08/21/25 16:35	8/21/25	
Dibenz(a,h)anthracene	400 U	1800	400	5	08/21/25 16:35	8/21/25	
Dibenzofuran	330 U	1800	330	5	08/21/25 16:35	8/21/25	
Fluoranthene	460 U	1800	460	5	08/21/25 16:35	8/21/25	
Fluorene	340 U	1800	340	5	08/21/25 16:35	8/21/25	
Indeno(1,2,3-cd)pyrene	590 U	1800	590	5	08/21/25 16:35	8/21/25	
Naphthalene	340 U	1800	340	5	08/21/25 16:35	8/21/25	
Phenanthrene	260 U	1800	260	5	08/21/25 16:35	8/21/25	
Pyrene	310 U	1800	310	5	08/21/25 16:35	8/21/25	
2,3,4,6-Tetrachlorophenol	640 U	1800	640	5	08/21/25 16:35	8/21/25	
2,4,5-Trichlorophenol	450 U	1800	450	5	08/21/25 16:35	8/21/25	
2,4,6-Trichlorophenol	410 U	1800	410	5	08/21/25 16:35	8/21/25	
2,4-Dichlorophenol	350 U	1800	350	5	08/21/25 16:35	8/21/25	
2,4-Dimethylphenol	330 U	1800	330	5	08/21/25 16:35	8/21/25	
2,4-Dinitrophenol	3100 U	9300	3100	5	08/21/25 16:35	8/21/25	
2,4-Dinitrotoluene	700 U	1800	700	5	08/21/25 16:35	8/21/25	
2,6-Dinitrotoluene	400 U	1800	400	5	08/21/25 16:35	8/21/25	
2-Chloronaphthalene	370 U	1800	370	5	08/21/25 16:35	8/21/25	
2-Chlorophenol	310 U	1800	310	5	08/21/25 16:35	8/21/25	
2-Methylphenol	380 U	1800	380	5	08/21/25 16:35	8/21/25	
2-Nitroaniline	430 U	9300	430	5	08/21/25 16:35	8/21/25	
2-Nitrophenol	420 U	1800	420	5	08/21/25 16:35	8/21/25	
3,3'-Dichlorobenzidine	660 U	1800	660	5	08/21/25 16:35	8/21/25	
3- and 4-Methylphenol Coelution	350 U	1800	350	5	08/21/25 16:35	8/21/25	
3-Nitroaniline	370 U	9300	370	5	08/21/25 16:35	8/21/25	
4,6-Dinitro-2-methylphenol	1100 U	9300	1100	5	08/21/25 16:35	8/21/25	
4-Bromophenyl Phenyl Ether	480 U	1800	480	5	08/21/25 16:35	8/21/25	
4-Chloro-3-methylphenol	370 U	1800	370	5	08/21/25 16:35	8/21/25	
4-Chloroaniline	660 U	1800	660	5	08/21/25 16:35	8/21/25	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: ALS Environmental - US
Project: 13800_Tacoma
Sample Matrix: Soil

Service Request: R2510153
Date Collected: 08/11/25 11:20
Date Received: 08/20/25 09:30

Sample Name: 13800 SB02 (3-4)
Lab Code: R2510153-002

Units: ug/Kg
Basis: Dry

Semivolatile Organic Compounds by GC/MS using Microwave Digestion

Analysis Method: 8270E
Prep Method: EPA 3546

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
4-Chlorophenyl Phenyl Ether	390 U	1800	390	5	08/21/25 16:35	8/21/25	
4-Nitroaniline	400 U	9300	400	5	08/21/25 16:35	8/21/25	
4-Nitrophenol	940 U	9300	940	5	08/21/25 16:35	8/21/25	
Acetophenone	530 U	1800	530	5	08/21/25 16:35	8/21/25	
Atrazine	540 U	1800	540	5	08/21/25 16:35	8/21/25	
Benzaldehyde	440 U	9300	440	5	08/21/25 16:35	8/21/25	
Benzoic Acid	2900 U	9300	2900	5	08/21/25 16:35	8/21/25	
Bis(1-chloroisopropyl) Ether	380 U	1800	380	5	08/21/25 16:35	8/21/25	
Bis(2-chloroethoxy)methane	450 U	1800	450	5	08/21/25 16:35	8/21/25	
Bis(2-chloroethyl) Ether	360 U	1800	360	5	08/21/25 16:35	8/21/25	
Bis(2-ethylhexyl) Phthalate	340 U	2700	340	5	08/21/25 16:35	8/21/25	
Butyl Benzyl Phthalate	530 U	1800	530	5	08/21/25 16:35	8/21/25	
Caprolactam	400 U	1800	400	5	08/21/25 16:35	8/21/25	
Carbazole	300 U	1800	300	5	08/21/25 16:35	8/21/25	
Di-n-butyl Phthalate	300 U	1800	300	5	08/21/25 16:35	8/21/25	
Di-n-octyl Phthalate	640 U	1800	640	5	08/21/25 16:35	8/21/25	
Diethyl Phthalate	330 U	1800	330	5	08/21/25 16:35	8/21/25	
Dimethyl Phthalate	350 U	1800	350	5	08/21/25 16:35	8/21/25	
Hexachlorobenzene	440 U	1800	440	5	08/21/25 16:35	8/21/25	
Hexachlorobutadiene	640 U	1800	640	5	08/21/25 16:35	8/21/25	
Hexachlorocyclopentadiene	580 U	1800	580	5	08/21/25 16:35	8/21/25	
Hexachloroethane	340 U	1800	340	5	08/21/25 16:35	8/21/25	
Isophorone	380 U	1800	380	5	08/21/25 16:35	8/21/25	
N-Nitrosodi-n-propylamine	560 U	1800	560	5	08/21/25 16:35	8/21/25	
N-Nitrosodiphenylamine	1200 U	1800	1200	5	08/21/25 16:35	8/21/25	
Nitrobenzene	330 U	1800	330	5	08/21/25 16:35	8/21/25	
Pentachlorophenol (PCP)	1800 U	9300	1800	5	08/21/25 16:35	8/21/25	
Phenol	370 U	1800	370	5	08/21/25 16:35	8/21/25	
Pyridine	250 U	9300	250	5	08/21/25 16:35	8/21/25	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2-Fluorobiphenyl	62	18 - 104	08/21/25 16:35	
Nitrobenzene-d5	54	12 - 98	08/21/25 16:35	
p-Terphenyl-d14	74	26 - 134	08/21/25 16:35	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: ALS Environmental - US
Project: 13800_Tacoma
Sample Matrix: Soil

Service Request: R2510153
Date Collected: 08/11/25 11:35
Date Received: 08/20/25 09:30

Sample Name: 13800 SB03 (5-6)
Lab Code: R2510153-003

Units: ug/Kg
Basis: Dry

Semivolatile Organic Compounds by GC/MS using Microwave Digestion

Analysis Method: 8270E
Prep Method: EPA 3546

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
1,2,4,5-Tetrachlorobenzene	88 U	390	88	1	08/21/25 16:59	8/21/25	
1-Methylnaphthalene	73 U	390	73	1	08/21/25 16:59	8/21/25	
2-Methylnaphthalene	140 U	390	140	1	08/21/25 16:59	8/21/25	
Acenaphthene	75 U	390	75	1	08/21/25 16:59	8/21/25	
Acenaphthylene	80 U	390	80	1	08/21/25 16:59	8/21/25	
Anthracene	66 U	390	66	1	08/21/25 16:59	8/21/25	
Benz(a)anthracene	59 U	390	59	1	08/21/25 16:59	8/21/25	
Benzo(a)pyrene	110 U	390	110	1	08/21/25 16:59	8/21/25	
Benzo(b)fluoranthene	66 U	390	66	1	08/21/25 16:59	8/21/25	
Benzo(g,h,i)perylene	91 U	390	91	1	08/21/25 16:59	8/21/25	
Benzo(k)fluoranthene	64 U	390	64	1	08/21/25 16:59	8/21/25	
1,4-Dichlorobenzene	66 U	390	66	1	08/21/25 16:59	8/21/25	
Biphenyl	120 U	390	120	1	08/21/25 16:59	8/21/25	
Chrysene	58 U	390	58	1	08/21/25 16:59	8/21/25	
Dibenz(a,h)anthracene	86 U	390	86	1	08/21/25 16:59	8/21/25	
1,4-Dioxane	39 U	80	39	1	08/21/25 16:59	8/21/25	
Dibenzofuran	72 U	390	72	1	08/21/25 16:59	8/21/25	
Fluoranthene	99 U	390	99	1	08/21/25 16:59	8/21/25	
Fluorene	74 U	390	74	1	08/21/25 16:59	8/21/25	
Indeno(1,2,3-cd)pyrene	130 U	390	130	1	08/21/25 16:59	8/21/25	
Naphthalene	74 U	390	74	1	08/21/25 16:59	8/21/25	
Phenanthrene	56 U	390	56	1	08/21/25 16:59	8/21/25	
Pyrene	66 U	390	66	1	08/21/25 16:59	8/21/25	
2,3,4,6-Tetrachlorophenol	140 U	390	140	1	08/21/25 16:59	8/21/25	
2,4,5-Trichlorophenol	98 U	390	98	1	08/21/25 16:59	8/21/25	
2,4,6-Trichlorophenol	88 U	390	88	1	08/21/25 16:59	8/21/25	
2,4-Dichlorophenol	76 U	390	76	1	08/21/25 16:59	8/21/25	
2,4-Dimethylphenol	71 U	390	71	1	08/21/25 16:59	8/21/25	
2,4-Dinitrophenol	670 U	2000	670	1	08/21/25 16:59	8/21/25	
2,4-Dinitrotoluene	160 U	390	160	1	08/21/25 16:59	8/21/25	
2,6-Dinitrotoluene	86 U	390	86	1	08/21/25 16:59	8/21/25	
2-Chloronaphthalene	79 U	390	79	1	08/21/25 16:59	8/21/25	
2-Chlorophenol	66 U	390	66	1	08/21/25 16:59	8/21/25	
2-Methylphenol	82 U	390	82	1	08/21/25 16:59	8/21/25	
2-Nitroaniline	94 U	2000	94	1	08/21/25 16:59	8/21/25	
2-Nitrophenol	92 U	390	92	1	08/21/25 16:59	8/21/25	
3,3'-Dichlorobenzidine	150 U	390	150	1	08/21/25 16:59	8/21/25	
3- and 4-Methylphenol Coelution	76 U	390	76	1	08/21/25 16:59	8/21/25	
3-Nitroaniline	80 U	2000	80	1	08/21/25 16:59	8/21/25	
4,6-Dinitro-2-methylphenol	230 U	2000	230	1	08/21/25 16:59	8/21/25	
4-Bromophenyl Phenyl Ether	110 U	390	110	1	08/21/25 16:59	8/21/25	
4-Chloro-3-methylphenol	80 U	390	80	1	08/21/25 16:59	8/21/25	
4-Chloroaniline	150 U	390	150	1	08/21/25 16:59	8/21/25	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: ALS Environmental - US
Project: 13800_Tacoma
Sample Matrix: Soil

Service Request: R2510153
Date Collected: 08/11/25 11:35
Date Received: 08/20/25 09:30

Sample Name: 13800 SB03 (5-6)
Lab Code: R2510153-003

Units: ug/Kg
Basis: Dry

Semivolatile Organic Compounds by GC/MS using Microwave Digestion

Analysis Method: 8270E
Prep Method: EPA 3546

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
4-Chlorophenyl Phenyl Ether	85 U	390	85	1	08/21/25 16:59	8/21/25	
4-Nitroaniline	85 U	2000	85	1	08/21/25 16:59	8/21/25	
4-Nitrophenol	210 U	2000	210	1	08/21/25 16:59	8/21/25	
Acetophenone	120 U	390	120	1	08/21/25 16:59	8/21/25	
Atrazine	120 U	390	120	1	08/21/25 16:59	8/21/25	
Benzaldehyde	96 U	2000	96	1	08/21/25 16:59	8/21/25	
Benzoic Acid	620 U	2000	620	1	08/21/25 16:59	8/21/25	
Bis(1-chloroisopropyl) Ether	81 U	390	81	1	08/21/25 16:59	8/21/25	
Bis(2-chloroethoxy)methane	97 U	390	97	1	08/21/25 16:59	8/21/25	
Bis(2-chloroethyl) Ether	78 U	390	78	1	08/21/25 16:59	8/21/25	
Bis(2-ethylhexyl) Phthalate	72 U	600	72	1	08/21/25 16:59	8/21/25	
Butyl Benzyl Phthalate	120 U	390	120	1	08/21/25 16:59	8/21/25	
Caprolactam	87 U	390	87	1	08/21/25 16:59	8/21/25	
Carbazole	64 U	390	64	1	08/21/25 16:59	8/21/25	
Di-n-butyl Phthalate	64 U	390	64	1	08/21/25 16:59	8/21/25	
Di-n-octyl Phthalate	140 U	390	140	1	08/21/25 16:59	8/21/25	
Diethyl Phthalate	70 U	390	70	1	08/21/25 16:59	8/21/25	
Dimethyl Phthalate	75 U	390	75	1	08/21/25 16:59	8/21/25	
Hexachlorobenzene	95 U	390	95	1	08/21/25 16:59	8/21/25	
Hexachlorobutadiene	140 U	390	140	1	08/21/25 16:59	8/21/25	
Hexachlorocyclopentadiene	130 U	390	130	1	08/21/25 16:59	8/21/25	
Hexachloroethane	74 U	390	74	1	08/21/25 16:59	8/21/25	
Isophorone	83 U	390	83	1	08/21/25 16:59	8/21/25	
N-Nitrosodi-n-propylamine	130 U	390	130	1	08/21/25 16:59	8/21/25	
N-Nitrosodiphenylamine	250 U	390	250	1	08/21/25 16:59	8/21/25	
Nitrobenzene	71 U	390	71	1	08/21/25 16:59	8/21/25	
Pentachlorophenol (PCP)	400 U	2000	400	1	08/21/25 16:59	8/21/25	
Phenol	80 U	390	80	1	08/21/25 16:59	8/21/25	
Pyridine	53 U	2000	53	1	08/21/25 16:59	8/21/25	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2-Fluorobiphenyl	58	18 - 104	08/21/25 16:59	
Nitrobenzene-d5	54	12 - 98	08/21/25 16:59	
p-Terphenyl-d14	72	26 - 134	08/21/25 16:59	



Semivolatile Organic Compounds by GC

ALS Environmental—Rochester Laboratory

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Analytical Report

Client: ALS Environmental - US
Project: 13800_Tacoma
Sample Matrix: Soil

Service Request: R2510153
Date Collected: 08/11/25 11:11
Date Received: 08/20/25 09:30

Sample Name: 13800 SB01 (1-2)
Lab Code: R2510153-001

Units: ug/Kg
Basis: Dry

Organochlorine Pesticides by Gas Chromatography using Microwave Extraction

Analysis Method: 8081B
Prep Method: EPA 3546

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
4,4'-DDD	14	2.8	1.4	1	08/25/25 14:28	8/21/25	
4,4'-DDE	44	2.8	1.4	1	08/25/25 14:28	8/21/25	
4,4'-DDT	14	2.8	1.4	1	08/25/25 14:28	8/21/25	
Aldrin	1.4 U	2.8	1.4	1	08/25/25 14:28	8/21/25	
Chlordane	7.0 U	14	7.0	1	08/25/25 14:28	8/21/25	
Dieldrin	1.4 U	2.8	1.4	1	08/25/25 14:28	8/21/25	
Endosulfan I	1.4 U	2.8	1.4	1	08/25/25 14:28	8/21/25	
Endosulfan II	1.4 U	2.8	1.4	1	08/25/25 14:28	8/21/25	
Endosulfan Sulfate	1.4 U	2.8	1.4	1	08/25/25 14:28	8/21/25	
Endrin	1.4 U	2.8	1.4	1	08/25/25 14:28	8/21/25	
Endrin Aldehyde	1.4 U	2.8	1.4	1	08/25/25 14:28	8/21/25	
Endrin Ketone	1.4 U	2.8	1.4	1	08/25/25 14:28	8/21/25	
Heptachlor	1.4 U	2.8	1.4	1	08/25/25 14:28	8/21/25	
Heptachlor Epoxide	1.4 U	2.8	1.4	1	08/25/25 14:28	8/21/25	
Methoxychlor	1.4 U	2.8	1.4	1	08/25/25 14:28	8/21/25	
Toxaphene	32 U	54	32	1	08/25/25 14:28	8/21/25	
alpha-BHC	1.4 U	2.8	1.4	1	08/25/25 14:28	8/21/25	
alpha-Chlordane	46	2.8	1.4	1	08/25/25 14:28	8/21/25	
beta-BHC	1.4 U	2.8	1.4	1	08/25/25 14:28	8/21/25	
delta-BHC	1.4 U	2.8	1.4	1	08/25/25 14:28	8/21/25	
gamma-BHC (Lindane)	1.4 U	2.8	1.4	1	08/25/25 14:28	8/21/25	
gamma-Chlordane	19	2.8	1.4	1	08/25/25 14:28	8/21/25	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	49	10 - 159	08/25/25 14:28	
Tetrachloro-m-xylene	52	10 - 132	08/25/25 14:28	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: ALS Environmental - US
Project: 13800_Tacoma
Sample Matrix: Soil

Service Request: R2510153
Date Collected: 08/11/25 11:20
Date Received: 08/20/25 09:30

Sample Name: 13800 SB02 (3-4)
Lab Code: R2510153-002

Units: ug/Kg
Basis: Dry

Organochlorine Pesticides by Gas Chromatography using Microwave Extraction

Analysis Method: 8081B
Prep Method: EPA 3546

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
4,4'-DDD	5.8	2.8	1.4	1	08/25/25 14:46	8/21/25	
4,4'-DDE	6.2	2.8	1.4	1	08/25/25 14:46	8/21/25	
4,4'-DDT	4.4 P	2.8	1.4	1	08/25/25 14:46	8/21/25	
Aldrin	1.4 U	2.8	1.4	1	08/25/25 14:46	8/21/25	
Chlordane	6.8 U	13	6.8	1	08/25/25 14:46	8/21/25	
Dieldrin	3.4	2.8	1.4	1	08/25/25 14:46	8/21/25	
Endosulfan I	1.4 U	2.8	1.4	1	08/25/25 14:46	8/21/25	
Endosulfan II	1.4 U	2.8	1.4	1	08/25/25 14:46	8/21/25	
Endosulfan Sulfate	1.4 U	2.8	1.4	1	08/25/25 14:46	8/21/25	
Endrin	1.4 U	2.8	1.4	1	08/25/25 14:46	8/21/25	
Endrin Aldehyde	1.4 U	2.8	1.4	1	08/25/25 14:46	8/21/25	
Endrin Ketone	1.4 U	2.8	1.4	1	08/25/25 14:46	8/21/25	
Heptachlor	1.4 U	2.8	1.4	1	08/25/25 14:46	8/21/25	
Heptachlor Epoxide	1.4 U	2.8	1.4	1	08/25/25 14:46	8/21/25	
Methoxychlor	1.4 U	2.8	1.4	1	08/25/25 14:46	8/21/25	
Toxaphene	31 U	53	31	1	08/25/25 14:46	8/21/25	
alpha-BHC	1.4 U	2.8	1.4	1	08/25/25 14:46	8/21/25	
alpha-Chlordane	5.1	2.8	1.4	1	08/25/25 14:46	8/21/25	
beta-BHC	1.4 U	2.8	1.4	1	08/25/25 14:46	8/21/25	
delta-BHC	1.4 U	2.8	1.4	1	08/25/25 14:46	8/21/25	
gamma-BHC (Lindane)	1.4 U	2.8	1.4	1	08/25/25 14:46	8/21/25	
gamma-Chlordane	5.7	2.8	1.4	1	08/25/25 14:46	8/21/25	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	44	10 - 159	08/25/25 14:46	
Tetrachloro-m-xylene	53	10 - 132	08/25/25 14:46	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: ALS Environmental - US
Project: 13800_Tacoma
Sample Matrix: Soil

Service Request: R2510153
Date Collected: 08/11/25 11:35
Date Received: 08/20/25 09:30

Sample Name: 13800 SB03 (5-6)
Lab Code: R2510153-003

Units: ug/Kg
Basis: Dry

Organochlorine Pesticides by Gas Chromatography using Microwave Extraction

Analysis Method: 8081B
Prep Method: EPA 3546

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
4,4'-DDD	1.6 U	3.1	1.6	1	08/25/25 15:03	8/21/25	
4,4'-DDE	14	3.1	1.6	1	08/25/25 15:03	8/21/25	
4,4'-DDT	1.6 U	3.1	1.6	1	08/25/25 15:03	8/21/25	
Aldrin	1.6 U	3.1	1.6	1	08/25/25 15:03	8/21/25	
Chlordane	7.6 U	15	7.6	1	08/25/25 15:03	8/21/25	
Dieldrin	1.6 U	3.1	1.6	1	08/25/25 15:03	8/21/25	
Endosulfan I	1.6 U	3.1	1.6	1	08/25/25 15:03	8/21/25	
Endosulfan II	1.6 U	3.1	1.6	1	08/25/25 15:03	8/21/25	
Endosulfan Sulfate	1.6 U	3.1	1.6	1	08/25/25 15:03	8/21/25	
Endrin	1.6 U	3.1	1.6	1	08/25/25 15:03	8/21/25	
Endrin Aldehyde	1.6 U	3.1	1.6	1	08/25/25 15:03	8/21/25	
Endrin Ketone	1.6 U	3.1	1.6	1	08/25/25 15:03	8/21/25	
Heptachlor	1.6 U	3.1	1.6	1	08/25/25 15:03	8/21/25	
Heptachlor Epoxide	1.6 U	3.1	1.6	1	08/25/25 15:03	8/21/25	
Methoxychlor	1.6 U	3.1	1.6	1	08/25/25 15:03	8/21/25	
Toxaphene	35 U	59	35	1	08/25/25 15:03	8/21/25	
alpha-BHC	1.6 U	3.1	1.6	1	08/25/25 15:03	8/21/25	
alpha-Chlordane	9.1	3.1	1.6	1	08/25/25 15:03	8/21/25	
beta-BHC	1.6 U	3.1	1.6	1	08/25/25 15:03	8/21/25	
delta-BHC	1.6 U	3.1	1.6	1	08/25/25 15:03	8/21/25	
gamma-BHC (Lindane)	1.6 U	3.1	1.6	1	08/25/25 15:03	8/21/25	
gamma-Chlordane	4.4	3.1	1.6	1	08/25/25 15:03	8/21/25	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	67	10 - 159	08/25/25 15:03	
Tetrachloro-m-xylene	58	10 - 132	08/25/25 15:03	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: ALS Environmental - US
Project: 13800_Tacoma
Sample Matrix: Soil

Service Request: R2510153
Date Collected: 08/11/25 11:11
Date Received: 08/20/25 09:30

Sample Name: 13800 SB01 (1-2)
Lab Code: R2510153-001

Units: ug/Kg
Basis: Dry

Polychlorinated Biphenyls (PCBs) by GC using Microwave Extraction

Analysis Method: 8082A
Prep Method: EPA 3546

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Aroclor 1016	29 U	54	29	1	08/25/25 01:11	8/21/25	
Aroclor 1221	43 U	110	43	1	08/25/25 01:11	8/21/25	
Aroclor 1232	32 U	54	32	1	08/25/25 01:11	8/21/25	
Aroclor 1242	29 U	54	29	1	08/25/25 01:11	8/21/25	
Aroclor 1248	30 U	54	30	1	08/25/25 01:11	8/21/25	
Aroclor 1254	29 U	54	29	1	08/25/25 01:11	8/21/25	
Aroclor 1260	29 U	54	29	1	08/25/25 01:11	8/21/25	
Aroclor 1262	29 U	54	29	1	08/25/25 01:11	8/21/25	
Aroclor 1268	29 U	54	29	1	08/25/25 01:11	8/21/25	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	62	10 - 138	08/25/25 01:11	
Tetrachloro-m-xylene	52	11 - 122	08/25/25 01:11	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: ALS Environmental - US
Project: 13800_Tacoma
Sample Matrix: Soil

Service Request: R2510153
Date Collected: 08/11/25 11:20
Date Received: 08/20/25 09:30

Sample Name: 13800 SB02 (3-4)
Lab Code: R2510153-002

Units: ug/Kg
Basis: Dry

Polychlorinated Biphenyls (PCBs) by GC using Microwave Extraction

Analysis Method: 8082A
Prep Method: EPA 3546

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Aroclor 1016	28 U	53	28	1	08/25/25 01:24	8/21/25	
Aroclor 1221	43 U	110	43	1	08/25/25 01:24	8/21/25	
Aroclor 1232	31 U	53	31	1	08/25/25 01:24	8/21/25	
Aroclor 1242	28 U	53	28	1	08/25/25 01:24	8/21/25	
Aroclor 1248	76	53	30	1	08/25/25 01:24	8/21/25	
Aroclor 1254	28 U	53	28	1	08/25/25 01:24	8/21/25	
Aroclor 1260	28 U	53	28	1	08/25/25 01:24	8/21/25	
Aroclor 1262	28 U	53	28	1	08/25/25 01:24	8/21/25	
Aroclor 1268	28 U	53	28	1	08/25/25 01:24	8/21/25	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	55	10 - 138	08/25/25 01:24	
Tetrachloro-m-xylene	54	11 - 122	08/25/25 01:24	

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Analytical Report

Client: ALS Environmental - US
Project: 13800_Tacoma
Sample Matrix: Soil

Service Request: R2510153
Date Collected: 08/11/25 11:35
Date Received: 08/20/25 09:30

Sample Name: 13800 SB03 (5-6)
Lab Code: R2510153-003

Units: ug/Kg
Basis: Dry

Polychlorinated Biphenyls (PCBs) by GC using Microwave Extraction

Analysis Method: 8082A
Prep Method: EPA 3546

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Aroclor 1016	31 U	59	31	1	08/25/25 01:38	8/21/25	
Aroclor 1221	47 U	120	47	1	08/25/25 01:38	8/21/25	
Aroclor 1232	35 U	59	35	1	08/25/25 01:38	8/21/25	
Aroclor 1242	31 U	59	31	1	08/25/25 01:38	8/21/25	
Aroclor 1248	33 U	59	33	1	08/25/25 01:38	8/21/25	
Aroclor 1254	31 U	59	31	1	08/25/25 01:38	8/21/25	
Aroclor 1260	31 U	59	31	1	08/25/25 01:38	8/21/25	
Aroclor 1262	31 U	59	31	1	08/25/25 01:38	8/21/25	
Aroclor 1268	31 U	59	31	1	08/25/25 01:38	8/21/25	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	76	10 - 138	08/25/25 01:38	
Tetrachloro-m-xylene	54	11 - 122	08/25/25 01:38	

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Analytical Report

Client: ALS Environmental - US
Project: 13800_Tacoma
Sample Matrix: Soil

Service Request: R2510153
Date Collected: 08/11/25 11:11
Date Received: 08/20/25 09:30

Sample Name: 13800 SB01 (1-2)
Lab Code: R2510153-001

Units: ug/Kg
Basis: Dry

Chlorinated Herbicides by GC

Analysis Method: 8151A
Prep Method: Method

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
2,4,5-T	5.7 U	11	5.7	1	08/26/25 21:06	8/22/25	
2,4,5-TP	5.1 U	11	5.1	1	08/26/25 21:06	8/22/25	
2,4-D	7.4 U	11	7.4	1	08/26/25 21:06	8/22/25	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
DCAA	67	10 - 151	08/26/25 21:06	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: ALS Environmental - US
Project: 13800_Tacoma
Sample Matrix: Soil

Service Request: R2510153
Date Collected: 08/11/25 11:20
Date Received: 08/20/25 09:30

Sample Name: 13800 SB02 (3-4)
Lab Code: R2510153-002

Units: ug/Kg
Basis: Dry

Chlorinated Herbicides by GC

Analysis Method: 8151A
Prep Method: Method

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
2,4,5-T	5.6 U	11	5.6	1	08/26/25 22:01	8/22/25	
2,4,5-TP	5.0 U	11	5.0	1	08/26/25 22:01	8/22/25	
2,4-D	7.3 U	11	7.3	1	08/26/25 22:01	8/22/25	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
DCAA	66	10 - 151	08/26/25 22:01	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: ALS Environmental - US
Project: 13800_Tacoma
Sample Matrix: Soil

Service Request: R2510153
Date Collected: 08/11/25 11:35
Date Received: 08/20/25 09:30

Sample Name: 13800 SB03 (5-6)
Lab Code: R2510153-003

Units: ug/Kg
Basis: Dry

Chlorinated Herbicides by GC

Analysis Method: 8151A
Prep Method: Method

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
2,4,5-T	17 U	33	17	1	08/27/25 02:54	8/25/25	
2,4,5-TP	15 U	33	15	1	08/27/25 02:54	8/25/25	
2,4-D	22 U	33	22	1	08/27/25 02:54	8/25/25	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
DCAA	56	10 - 151	08/27/25 02:54	



General Chemistry

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Analytical Report

Client: ALS Environmental - US
Project: 13800_Tacoma
Sample Matrix: Soil

Sample Name: 13800 SB01 (1-2)
Lab Code: R2510153-001

Service Request: R2510153
Date Collected: 08/11/25 11:11
Date Received: 08/20/25 09:30

Basis: As Received

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Q
Total Solids	ALS SOP	90.1	Percent	-	-	1	08/29/25 10:00	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: ALS Environmental - US
Project: 13800_Tacoma
Sample Matrix: Soil

Sample Name: 13800 SB02 (3-4)
Lab Code: R2510153-002

Service Request: R2510153
Date Collected: 08/11/25 11:20
Date Received: 08/20/25 09:30

Basis: As Received

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Q
Total Solids	ALS SOP	90.5	Percent	-	-	1	08/29/25 10:00	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: ALS Environmental - US
Project: 13800_Tacoma
Sample Matrix: Soil

Sample Name: 13800 SB03 (5-6)
Lab Code: R2510153-003

Service Request: R2510153
Date Collected: 08/11/25 11:35
Date Received: 08/20/25 09:30

Basis: As Received

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Q
Total Solids	ALS SOP	83.0	Percent	-	-	1	08/29/25 10:00	



QC Summary Forms

ALS Environmental—Rochester Laboratory

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

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Semivolatile Organic Compounds by GC/MS

ALS Environmental—Rochester Laboratory

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QA/QC Report

Client: ALS Environmental - US
Project: 13800_Tacoma
Sample Matrix: Soil

Service Request: R2510153

SURROGATE RECOVERY SUMMARY

Semivolatile Organic Compounds by GC/MS using Microwave Digestion

Analysis Method: 8270E
Extraction Method: EPA 3546

Sample Name	Lab Code	2-Fluorobiphenyl	Nitrobenzene-d5	p-Terphenyl-d14
		18 - 104	12 - 98	26 - 134
13800 SB01 (1-2)	R2510153-001	70	70	83
13800 SB02 (3-4)	R2510153-002	62	54	74
13800 SB03 (5-6)	R2510153-003	58	54	72
Method Blank	RQ2511066-01	54	51	70
Lab Control Sample	RQ2511066-02	61	52	75
Duplicate Lab Control Sample	RQ2511066-03	58	50	74

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Analytical Report

Client: ALS Environmental - US
Project: 13800_Tacoma
Sample Matrix: Soil

Service Request: R2510153
Date Collected: NA
Date Received: NA

Sample Name: Method Blank
Lab Code: RQ2511066-01

Units: ug/Kg
Basis: Dry

Semivolatile Organic Compounds by GC/MS using Microwave Digestion

Analysis Method: 8270E
Prep Method: EPA 3546

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
1,2,4,5-Tetrachlorobenzene	74 U	330	74	1	08/21/25 13:25	8/21/25	
1-Methylnaphthalene	61 U	330	61	1	08/21/25 13:25	8/21/25	
2-Methylnaphthalene	120 U	330	120	1	08/21/25 13:25	8/21/25	
Acenaphthene	63 U	330	63	1	08/21/25 13:25	8/21/25	
Acenaphthylene	67 U	330	67	1	08/21/25 13:25	8/21/25	
Anthracene	55 U	330	55	1	08/21/25 13:25	8/21/25	
Benz(a)anthracene	49 U	330	49	1	08/21/25 13:25	8/21/25	
Benzo(a)pyrene	88 U	330	88	1	08/21/25 13:25	8/21/25	
Benzo(b)fluoranthene	55 U	330	55	1	08/21/25 13:25	8/21/25	
Benzo(g,h,i)perylene	76 U	330	76	1	08/21/25 13:25	8/21/25	
1,4-Dichlorobenzene	55 U	330	55	1	08/21/25 13:25	8/21/25	
Benzo(k)fluoranthene	54 U	330	54	1	08/21/25 13:25	8/21/25	
Biphenyl	98 U	330	98	1	08/21/25 13:25	8/21/25	
Chrysene	49 U	330	49	1	08/21/25 13:25	8/21/25	
Dibenz(a,h)anthracene	72 U	330	72	1	08/21/25 13:25	8/21/25	
1,4-Dioxane	32 U	67	32	1	08/21/25 13:25	8/21/25	
Dibenzofuran	60 U	330	60	1	08/21/25 13:25	8/21/25	
Fluoranthene	83 U	330	83	1	08/21/25 13:25	8/21/25	
Fluorene	62 U	330	62	1	08/21/25 13:25	8/21/25	
Indeno(1,2,3-cd)pyrene	110 U	330	110	1	08/21/25 13:25	8/21/25	
Naphthalene	62 U	330	62	1	08/21/25 13:25	8/21/25	
Phenanthrene	47 U	330	47	1	08/21/25 13:25	8/21/25	
Pyrene	55 U	330	55	1	08/21/25 13:25	8/21/25	
2,3,4,6-Tetrachlorophenol	120 U	330	120	1	08/21/25 13:25	8/21/25	
2,4,5-Trichlorophenol	82 U	330	82	1	08/21/25 13:25	8/21/25	
2,4,6-Trichlorophenol	74 U	330	74	1	08/21/25 13:25	8/21/25	
2,4-Dichlorophenol	64 U	330	64	1	08/21/25 13:25	8/21/25	
2,4-Dimethylphenol	59 U	330	59	1	08/21/25 13:25	8/21/25	
2,4-Dinitrophenol	560 U	1700	560	1	08/21/25 13:25	8/21/25	
2,4-Dinitrotoluene	130 U	330	130	1	08/21/25 13:25	8/21/25	
2,6-Dinitrotoluene	72 U	330	72	1	08/21/25 13:25	8/21/25	
2-Chloronaphthalene	66 U	330	66	1	08/21/25 13:25	8/21/25	
2-Chlorophenol	55 U	330	55	1	08/21/25 13:25	8/21/25	
2-Methylphenol	69 U	330	69	1	08/21/25 13:25	8/21/25	
2-Nitroaniline	78 U	1700	78	1	08/21/25 13:25	8/21/25	
2-Nitrophenol	77 U	330	77	1	08/21/25 13:25	8/21/25	
3,3'-Dichlorobenzidine	120 U	330	120	1	08/21/25 13:25	8/21/25	
3- and 4-Methylphenol Coelution	63 U	330	63	1	08/21/25 13:25	8/21/25	
3-Nitroaniline	67 U	1700	67	1	08/21/25 13:25	8/21/25	
4,6-Dinitro-2-methylphenol	190 U	1700	190	1	08/21/25 13:25	8/21/25	
4-Bromophenyl Phenyl Ether	87 U	330	87	1	08/21/25 13:25	8/21/25	
4-Chloro-3-methylphenol	67 U	330	67	1	08/21/25 13:25	8/21/25	
4-Chloroaniline	120 U	330	120	1	08/21/25 13:25	8/21/25	

ALS Group USA, Corp.
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Analytical Report

Client: ALS Environmental - US
Project: 13800_Tacoma
Sample Matrix: Soil

Service Request: R2510153
Date Collected: NA
Date Received: NA

Sample Name: Method Blank
Lab Code: RQ2511066-01

Units: ug/Kg
Basis: Dry

Semivolatile Organic Compounds by GC/MS using Microwave Digestion

Analysis Method: 8270E
Prep Method: EPA 3546

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
4-Chlorophenyl Phenyl Ether	71 U	330	71	1	08/21/25 13:25	8/21/25	
4-Nitroaniline	71 U	1700	71	1	08/21/25 13:25	8/21/25	
4-Nitrophenol	170 U	1700	170	1	08/21/25 13:25	8/21/25	
Acetophenone	95 U	330	95	1	08/21/25 13:25	8/21/25	
Atrazine	98 U	330	98	1	08/21/25 13:25	8/21/25	
Benzaldehyde	80 U	1700	80	1	08/21/25 13:25	8/21/25	
Benzoic Acid	520 U	1700	520	1	08/21/25 13:25	8/21/25	
Bis(1-chloroisopropyl) Ether	68 U	330	68	1	08/21/25 13:25	8/21/25	
Bis(2-chloroethoxy)methane	81 U	330	81	1	08/21/25 13:25	8/21/25	
Bis(2-chloroethyl) Ether	65 U	330	65	1	08/21/25 13:25	8/21/25	
Bis(2-ethylhexyl) Phthalate	61 U	500	61	1	08/21/25 13:25	8/21/25	
Butyl Benzyl Phthalate	96 U	330	96	1	08/21/25 13:25	8/21/25	
Caprolactam	73 U	330	73	1	08/21/25 13:25	8/21/25	
Carbazole	54 U	330	54	1	08/21/25 13:25	8/21/25	
Di-n-butyl Phthalate	54 U	330	54	1	08/21/25 13:25	8/21/25	
Di-n-octyl Phthalate	120 U	330	120	1	08/21/25 13:25	8/21/25	
Diethyl Phthalate	59 U	330	59	1	08/21/25 13:25	8/21/25	
Dimethyl Phthalate	63 U	330	63	1	08/21/25 13:25	8/21/25	
Hexachlorobenzene	79 U	330	79	1	08/21/25 13:25	8/21/25	
Hexachlorobutadiene	120 U	330	120	1	08/21/25 13:25	8/21/25	
Hexachlorocyclopentadiene	110 U	330	110	1	08/21/25 13:25	8/21/25	
Hexachloroethane	62 U	330	62	1	08/21/25 13:25	8/21/25	
Isophorone	69 U	330	69	1	08/21/25 13:25	8/21/25	
N-Nitrosodi-n-propylamine	110 U	330	110	1	08/21/25 13:25	8/21/25	
N-Nitrosodiphenylamine	210 U	330	210	1	08/21/25 13:25	8/21/25	
Nitrobenzene	59 U	330	59	1	08/21/25 13:25	8/21/25	
Pentachlorophenol (PCP)	330 U	1700	330	1	08/21/25 13:25	8/21/25	
Phenol	67 U	330	67	1	08/21/25 13:25	8/21/25	
Pyridine	45 U	1700	45	1	08/21/25 13:25	8/21/25	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2-Fluorobiphenyl	54	18 - 104	08/21/25 13:25	
Nitrobenzene-d5	51	12 - 98	08/21/25 13:25	
p-Terphenyl-d14	70	26 - 134	08/21/25 13:25	

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QA/QC Report

Client: ALS Environmental - US
Project: 13800_Tacoma
Sample Matrix: Soil

Service Request: R2510153
Date Analyzed: 08/21/25

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

Units:ug/Kg
Basis:Dry

Analyte Name	Lab Control Sample RQ2511066-02				Duplicate Lab Control Sample RQ2511066-03				RPD	RPD Limit
	Analytical Method	Result	Spike Amount	% Rec	Result	Spike Amount	% Rec	% Rec Limits		
1-Methylnaphthalene	8270E	1630	3320	49	1740	3330	52	29-100	6	30
1,2,4,5-Tetrachlorobenzene	8270E	1830	3320	55	1650	3330	49	20-126	10	30
2-Methylnaphthalene	8270E	1540	3320	46	1660	3330	50	29-99	7	30
Acenaphthene	8270E	1850	3320	56	1990	3330	60	41-110	7	30
Acenaphthylene	8270E	2090	3320	63	2230	3330	67	44-122	6	30
Anthracene	8270E	1950	3320	59	2070	3330	62	41-123	6	30
Benz(a)anthracene	8270E	1990	3320	60	2140	3330	64	44-116	8	30
Benzo(a)pyrene	8270E	2270	3320	68	2420	3330	73	56-146	7	30
Benzo(b)fluoranthene	8270E	1860	3320	56	2000	3330	60	47-120	7	30
Benzo(g,h,i)perylene	8270E	1920	3320	58	2060	3330	62	41-129	7	30
Benzo(k)fluoranthene	8270E	2020	3320	61	2170	3330	65	49-124	7	30
1,4-Dichlorobenzene	8270E	1430	3320	43	1610	3330	48	16-83	12	30
Biphenyl	8270E	1920	3320	58	1720	3330	52	24-112	11	30
Chrysene	8270E	2030	3320	61	2180	3330	65	44-119	7	30
1,4-Dioxane	8270E	1070	3320	32	1050	3330	32	10-58	2	30
Dibenz(a,h)anthracene	8270E	2030	3320	61	2160	3330	65	18-146	6	30
Dibenzofuran	8270E	1940	3320	58	2070	3330	62	43-113	7	30
Fluoranthene	8270E	2000	3320	60	2140	3330	64	39-128	6	30
Fluorene	8270E	1960	3320	59	2070	3330	62	40-117	5	30
Indeno(1,2,3-cd)pyrene	8270E	2120	3320	64	2290	3330	69	43-129	8	30
Naphthalene	8270E	1550	3320	47	1660	3330	50	31-93	7	30
Phenanthrene	8270E	1810	3320	54	1920	3330	58	39-120	6	30
Pyrene	8270E	1960	3320	59	2130	3330	64	45-125	8	30
2,3,4,6-Tetrachlorophenol	8270E	2300	3320	69	2440	3330	73	42-117	6	30
2,4,5-Trichlorophenol	8270E	2080	3320	63	2180	3330	66	40-114	5	30
2,4,6-Trichlorophenol	8270E	1970	3320	59	2130	3330	64	33-108	8	30
2,4-Dichlorophenol	8270E	1820	3320	55	1930	3330	58	30-103	6	30
2,4-Dimethylphenol	8270E	1810	3320	54	1900	3330	57	32-100	5	30
2,4-Dinitrophenol	8270E	1540 J	3320	46	1700 J	3330	51	10-97	9	30
2,4-Dinitrotoluene	8270E	2060	3320	62	2210	3330	67	53-120	7	30
2,6-Dinitrotoluene	8270E	2060	3320	62	2220	3330	67	48-119	7	30
2-Chloronaphthalene	8270E	1850	3320	56	1980	3330	60	33-103	7	30
2-Chlorophenol	8270E	1780	3320	53	1910	3330	57	26-90	7	30

ALS Group USA, Corp.
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QA/QC Report

Client: ALS Environmental - US
Project: 13800_Tacoma
Sample Matrix: Soil

Service Request: R2510153
Date Analyzed: 08/21/25

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

Units:ug/Kg
Basis:Dry

Lab Control Sample RQ2511066-02					Duplicate Lab Control Sample RQ2511066-03					
Analyte Name	Analytical Method	Result	Spike Amount	% Rec	Result	Spike Amount	% Rec	% Rec Limits	RPD	RPD Limit
2-Methylphenol	8270E	1950	3320	59	2080	3330	63	33-99	7	30
2-Nitroaniline	8270E	1970	3320	59	2110	3330	63	41-119	7	30
2-Nitrophenol	8270E	1660	3320	50	1780	3330	53	24-98	7	30
3- and 4-Methylphenol Coelution	8270E	2030	3320	61	2210	3330	66	32-100	9	30
3-Nitroaniline	8270E	1700	3320	51	1750	3330	53	29-105	3	30
4,6-Dinitro-2-methylphenol	8270E	1960	3320	59	2110	3330	64	20-105	7	30
4-Bromophenyl Phenyl Ether	8270E	2000	3320	60	2130	3330	64	37-116	7	30
4-Chloro-3-methylphenol	8270E	1900	3320	57	2000	3330	60	40-116	5	30
4-Chloroaniline	8270E	1330	3320	40	1230	3330	37	10-87	8	30
4-Chlorophenyl Phenyl Ether	8270E	1920	3320	58	2050	3330	62	42-111	6	30
4-Nitroaniline	8270E	1600 J	3320	48	1880	3330	57	43-120	16	30
4-Nitrophenol	8270E	1760	3320	53	1810	3330	54	34-116	2	30
Acetophenone	8270E	1830	3320	55	1640	3330	49	23-87	11	30
Benzoic Acid	8270E	1960	3320	59	2120	3330	64	10-126	8	30
Bis(1-chloroisopropyl) Ether	8270E	1760	3320	53	1930	3330	58	22-99	9	30
Bis(2-chloroethoxy)methane	8270E	1820	3320	55	1930	3330	58	38-119	6	30
Bis(2-chloroethyl) Ether	8270E	1630	3320	49	1780	3330	53	23-94	9	30
Bis(2-ethylhexyl) Phthalate	8270E	2190	3320	66	2370	3330	71	38-139	8	30
Butyl Benzyl Phthalate	8270E	2080	3320	63	2240	3330	67	40-134	8	30
Caprolactam	8270E	1890	3320	57	1630	3330	49	21-128	15	30
Carbazole	8270E	1960	3320	59	2140	3330	64	42-131	9	30
Di-n-butyl Phthalate	8270E	2170	3320	65	2340	3330	70	42-141	8	30
Di-n-octyl Phthalate	8270E	2290	3320	69	2470	3330	74	38-143	8	30
Diethyl Phthalate	8270E	1980	3320	60	2100	3330	63	43-118	6	30
Dimethyl Phthalate	8270E	1990	3320	60	2140	3330	64	40-118	7	30
Hexachlorobenzene	8270E	1940	3320	59	2070	3330	62	35-122	6	30
Hexachlorobutadiene	8270E	1510	3320	45	1650	3330	49	28-96	9	30
Hexachlorocyclopentadiene	8270E	1670	3320	50	1850	3330	55	10-111	10	30
Hexachloroethane	8270E	1460	3320	44	1660	3330	50	18-85	13	30
Isophorone	8270E	1800	3320	54	1920	3330	58	39-104	6	30
N-Nitrosodi-n-propylamine	8270E	1790	3320	54	1910	3330	57	30-98	7	30
N-Nitrosodiphenylamine	8270E	2220	3320	67	2380	3330	72	43-130	7	30
Nitrobenzene	8270E	1640	3320	49	1760	3330	53	31-99	7	30

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Superset Reference:25-0000742901 rev 00

ALS Group USA, Corp.
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QA/QC Report

Client: ALS Environmental - US
Project: 13800_Tacoma
Sample Matrix: Soil

Service Request: R2510153
Date Analyzed: 08/21/25

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

Units:ug/Kg
Basis:Dry

Analyte Name	Lab Control Sample				Duplicate Lab Control Sample					
	RQ2511066-02				RQ2511066-03					
	Analytical Method	Result	Spike Amount	% Rec	Result	Spike Amount	% Rec	% Rec Limits	RPD	RPD Limit
Pentachlorophenol (PCP)	8270E	1680 J	3320	51	1770	3330	53	36-138	5	30
Phenol	8270E	1850	3320	56	1980	3330	60	31-100	7	30
Pyridine	8270E	2760	6640	42	2910	6660	44	12-80	5	30



Semivolatile Organic Compounds by GC

ALS Environmental—Rochester Laboratory

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ALS Group USA, Corp.
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QA/QC Report

Client: ALS Environmental - US
Project: 13800_Tacoma
Sample Matrix: Soil

Service Request: R2510153

SURROGATE RECOVERY SUMMARY

Organochlorine Pesticides by Gas Chromatography using Microwave Extraction

Analysis Method: 8081B
Extraction Method: EPA 3546

Sample Name	Lab Code	Decachlorobiphenyl	Tetrachloro-m-xylene
		10 - 159	10 - 132
13800 SB01 (1-2)	R2510153-001	49	52
13800 SB02 (3-4)	R2510153-002	44	53
13800 SB03 (5-6)	R2510153-003	67	58
Method Blank	RQ2511079-01	64	54
Lab Control Sample	RQ2511079-02	68	61
Duplicate Lab Control Sample	RQ2511079-03	69	58

ALS Group USA, Corp.
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Analytical Report

Client: ALS Environmental - US
Project: 13800_Tacoma
Sample Matrix: Soil

Service Request: R2510153
Date Collected: NA
Date Received: NA

Sample Name: Method Blank
Lab Code: RQ2511079-01

Units: ug/Kg
Basis: Dry

Organochlorine Pesticides by Gas Chromatography using Microwave Extraction

Analysis Method: 8081B
Prep Method: EPA 3546

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
4,4'-DDD	0.84 U	1.7	0.84	1	08/25/25 12:41	8/21/25	
4,4'-DDE	0.84 U	1.7	0.84	1	08/25/25 12:41	8/21/25	
4,4'-DDT	0.84 U	1.7	0.84	1	08/25/25 12:41	8/21/25	
Aldrin	0.84 U	1.7	0.84	1	08/25/25 12:41	8/21/25	
Chlordane	4.2 U	8.3	4.2	1	08/25/25 12:41	8/21/25	
Dieldrin	0.84 U	1.7	0.84	1	08/25/25 12:41	8/21/25	
Endosulfan I	0.84 U	1.7	0.84	1	08/25/25 12:41	8/21/25	
Endosulfan II	0.84 U	1.7	0.84	1	08/25/25 12:41	8/21/25	
Endosulfan Sulfate	0.84 U	1.7	0.84	1	08/25/25 12:41	8/21/25	
Endrin	0.84 U	1.7	0.84	1	08/25/25 12:41	8/21/25	
Endrin Aldehyde	0.84 U	1.7	0.84	1	08/25/25 12:41	8/21/25	
Endrin Ketone	0.84 U	1.7	0.84	1	08/25/25 12:41	8/21/25	
Heptachlor	0.84 U	1.7	0.84	1	08/25/25 12:41	8/21/25	
Heptachlor Epoxide	0.84 U	1.7	0.84	1	08/25/25 12:41	8/21/25	
Methoxychlor	0.84 U	1.7	0.84	1	08/25/25 12:41	8/21/25	
Toxaphene	19 U	33	19	1	08/25/25 12:41	8/21/25	
alpha-BHC	0.84 U	1.7	0.84	1	08/25/25 12:41	8/21/25	
alpha-Chlordane	0.84 U	1.7	0.84	1	08/25/25 12:41	8/21/25	
beta-BHC	0.84 U	1.7	0.84	1	08/25/25 12:41	8/21/25	
delta-BHC	0.84 U	1.7	0.84	1	08/25/25 12:41	8/21/25	
gamma-BHC (Lindane)	0.84 U	1.7	0.84	1	08/25/25 12:41	8/21/25	
gamma-Chlordane	0.84 U	1.7	0.84	1	08/25/25 12:41	8/21/25	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	64	10 - 159	08/25/25 12:41	
Tetrachloro-m-xylene	54	10 - 132	08/25/25 12:41	

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: ALS Environmental - US
Project: 13800_Tacoma
Sample Matrix: Soil

Service Request: R2510153
Date Analyzed: 08/25/25

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

Units:ug/Kg
Basis:Dry

Lab Control Sample RQ2511079-02					Duplicate Lab Control Sample RQ2511079-03					
Analyte Name	Analytical Method	Result	Spike Amount	% Rec	Result	Spike Amount	% Rec	% Rec Limits	RPD	RPD Limit
4,4'-DDD	8081B	5.86	6.57	89	5.89	6.64	89	48-121	<1	30
4,4'-DDE	8081B	5.52	6.57	84	5.24	6.64	79	51-119	5	30
4,4'-DDT	8081B	6.01	6.57	92	6.09	6.64	92	51-126	1	30
Aldrin	8081B	4.95	6.57	75	4.64	6.64	70	45-109	6	30
Dieldrin	8081B	5.28	6.57	80	5.11	6.64	77	56-111	3	30
Endosulfan I	8081B	4.60	6.57	70	4.55	6.64	68	54-109	1	30
Endosulfan II	8081B	5.12	6.57	78	5.16	6.64	78	50-116	<1	30
Endosulfan Sulfate	8081B	5.30	6.57	81	5.31	6.64	80	55-115	<1	30
Endrin	8081B	5.41	6.57	82	5.24	6.64	79	49-124	3	30
Endrin Aldehyde	8081B	5.42	6.57	83	5.44	6.64	82	21-139	<1	30
Endrin Ketone	8081B	5.52	6.57	84	5.44	6.64	82	50-124	1	30
Heptachlor	8081B	5.17	6.57	79	4.88	6.64	73	43-115	6	30
Heptachlor Epoxide	8081B	5.38	6.57	82	5.07	6.64	76	53-113	6	30
Methoxychlor	8081B	6.41	6.57	98	6.17	6.64	93	47-141	4	30
alpha-BHC	8081B	5.00	6.57	76	4.55	6.64	68	44-109	10	30
alpha-Chlordane	8081B	5.23	6.57	80	5.09	6.64	77	52-114	3	30
beta-BHC	8081B	5.76	6.57	88	5.22	6.64	79	49-119	10	30
delta-BHC	8081B	5.50	6.57	84	5.32	6.64	80	49-113	3	30
gamma-BHC (Lindane)	8081B	4.88	6.57	74	4.55	6.64	69	43-112	7	30
gamma-Chlordane	8081B	5.37	6.57	82	5.12	6.64	77	51-117	5	30

ALS Group USA, Corp.
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QA/QC Report

Client: ALS Environmental - US
Project: 13800_Tacoma
Sample Matrix: Soil

Service Request: R2510153

SURROGATE RECOVERY SUMMARY
Polychlorinated Biphenyls (PCBs) by GC using Microwave Extraction

Analysis Method: 8082A
Extraction Method: EPA 3546

Sample Name	Lab Code	Decachlorobiphenyl	Tetrachloro-m-xylene
		10 - 138	11 - 122
13800 SB01 (1-2)	R2510153-001	62	52
13800 SB02 (3-4)	R2510153-002	55	54
13800 SB03 (5-6)	R2510153-003	76	54
Method Blank	RQ2511079-01	71	54
Lab Control Sample	RQ2511079-04	77	65
Duplicate Lab Control Sample	RQ2511079-05	84	62

ALS Group USA, Corp.
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Analytical Report

Client: ALS Environmental - US
Project: 13800_Tacoma
Sample Matrix: Soil

Service Request: R2510153
Date Collected: NA
Date Received: NA

Sample Name: Method Blank
Lab Code: RQ2511079-01

Units: ug/Kg
Basis: Dry

Polychlorinated Biphenyls (PCBs) by GC using Microwave Extraction

Analysis Method: 8082A
Prep Method: EPA 3546

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Aroclor 1016	17 U	32	17	1	08/24/25 23:50	8/21/25	
Aroclor 1221	26 U	66	26	1	08/24/25 23:50	8/21/25	
Aroclor 1232	19 U	32	19	1	08/24/25 23:50	8/21/25	
Aroclor 1242	17 U	32	17	1	08/24/25 23:50	8/21/25	
Aroclor 1248	18 U	32	18	1	08/24/25 23:50	8/21/25	
Aroclor 1254	17 U	32	17	1	08/24/25 23:50	8/21/25	
Aroclor 1260	17 U	32	17	1	08/24/25 23:50	8/21/25	
Aroclor 1262	17 U	32	17	1	08/24/25 23:50	8/21/25	
Aroclor 1268	17 U	32	17	1	08/24/25 23:50	8/21/25	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	71	10 - 138	08/24/25 23:50	
Tetrachloro-m-xylene	54	11 - 122	08/24/25 23:50	

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QA/QC Report

Client: ALS Environmental - US
Project: 13800_Tacoma
Sample Matrix: Soil

Service Request: R2510153
Date Analyzed: 08/25/25

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

Units:ug/Kg
Basis:Dry

			Lab Control Sample			Duplicate Lab Control Sample				
			RQ2511079-04			RQ2511079-05				
Analyte Name	Analytical Method	Result	Spike Amount	% Rec	Result	Spike Amount	% Rec	% Rec Limits	RPD	RPD Limit
Aroclor 1016	8082A	131	166	79	126	166	76	34-141	4	30
Aroclor 1260	8082A	140	166	85	144	166	87	30-158	3	30

ALS Group USA, Corp.
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QA/QC Report

Client: ALS Environmental - US
Project: 13800_Tacoma
Sample Matrix: Soil

Service Request: R2510153

SURROGATE RECOVERY SUMMARY
Chlorinated Herbicides by GC

Analysis Method: 8151A
Extraction Method: Method

Sample Name	Lab Code	DCAA
		10 - 151
13800 SB01 (1-2)	R2510153-001	67
13800 SB02 (3-4)	R2510153-002	66
13800 SB03 (5-6)	R2510153-003	56
Method Blank	RQ2511152-01	63
Lab Control Sample	RQ2511152-02	59
Duplicate Lab Control Sample	RQ2511152-03	65
Method Blank	RQ2511241-01	54
Lab Control Sample	RQ2511241-02	54
Duplicate Lab Control Sample	RQ2511241-03	62

ALS Group USA, Corp.
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Analytical Report

Client: ALS Environmental - US
Project: 13800_Tacoma
Sample Matrix: Soil

Service Request: R2510153
Date Collected: NA
Date Received: NA

Sample Name: Method Blank
Lab Code: RQ2511152-01

Units: ug/Kg
Basis: Dry

Chlorinated Herbicides by GC

Analysis Method: 8151A
Prep Method: Method

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
2,4,5-T	5.0 U	9.9	5.0	1	08/26/25 19:16	8/22/25	
2,4,5-TP	4.5 U	9.9	4.5	1	08/26/25 19:16	8/22/25	
2,4-D	6.5 U	9.9	6.5	1	08/26/25 19:16	8/22/25	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
DCAA	63	10 - 151	08/26/25 19:16	

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Analytical Report

Client: ALS Environmental - US
Project: 13800_Tacoma
Sample Matrix: Soil

Service Request: R2510153
Date Collected: NA
Date Received: NA

Sample Name: Method Blank
Lab Code: RQ2511241-01

Units: ug/Kg
Basis: Dry

Chlorinated Herbicides by GC

Analysis Method: 8151A
Prep Method: Method

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
2,4,5-T	5.1 U	10	5.1	1	08/27/25 01:59	8/25/25	
2,4,5-TP	4.6 U	10	4.6	1	08/27/25 01:59	8/25/25	
2,4-D	6.6 U	10	6.6	1	08/27/25 01:59	8/25/25	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
DCAA	54	10 - 151	08/27/25 01:59	

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QA/QC Report

Client: ALS Environmental - US
Project: 13800_Tacoma
Sample Matrix: Soil

Service Request: R2510153
Date Analyzed: 08/26/25

Duplicate Lab Control Sample Summary
Chlorinated Herbicides by GC

Units:ug/Kg
Basis:Dry

Lab Control Sample
RQ2511152-02

Duplicate Lab Control Sample
RQ2511152-03

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	Result	Spike Amount	% Rec	% Rec Limits	RPD	RPD Limit
2,4,5-T	8151A	16.3	25.0	65	19.0	25.2	75	19-127	15	30
2,4,5-TP	8151A	13.9	25.0	56	16.4	25.2	65	18-122	16	30
2,4-D	8151A	12.7	25.0	51	14.7	25.2	58	31-119	15	30

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QA/QC Report

Client: ALS Environmental - US
Project: 13800_Tacoma
Sample Matrix: Soil

Service Request: R2510153
Date Analyzed: 08/27/25

Duplicate Lab Control Sample Summary
Chlorinated Herbicides by GC

Units:ug/Kg
Basis:Dry

Lab Control Sample					Duplicate Lab Control Sample					
RQ2511241-02					RQ2511241-03					
Analyte Name	Analytical Method	Result	Spike Amount	% Rec	Result	Spike Amount	% Rec	% Rec Limits	RPD	RPD Limit
2,4,5-T	8151A	17.4	25.1	69	19.2	24.8	78	19-127	10	30
2,4,5-TP	8151A	14.1	25.1	56	16.2	24.8	65	18-122	14	30
2,4-D	8151A	13.6	25.1	54	15.0	24.8	61	31-119	10	30

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Confirmation Results

Client: ALS Environmental - US
Project: 13800_Tacoma
Matrix: Soil

Service Request: R2510153

Date Collected: NA

Date Received:

Sample Name: Lab Control Sample

Lab Code: RQ2511152-02

Units: ug/Kg

Basis: Dry

Chlorinated Herbicides by GC

Analytical Method: 8151A

Prep Method: Method

	MDL	Primary Result	Confirmation Result	RPD	Q	Dilution Factor	Date Analyzed
2,4,5-T	5.1	16.3	16.7	2		1	08/26/25 19:34
2,4,5-TP	4.6	13.9	14.4	4		1	08/26/25 19:34
2,4-D	6.6	12.7	15.2	18		1	08/26/25 19:34

ALS Group USA, Corp.
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Confirmation Results

Client: ALS Environmental - US
Project: 13800_Tacoma
Matrix: Soil

Sample Name: Duplicate Lab Control Sample
Lab Code: RQ2511152-03

Service Request: R2510153
Date Collected: NA
Date Received:

Units: ug/Kg
Basis: Dry

Chlorinated Herbicides by GC

Analytical Method: 8151A
Prep Method: Method

	MDL	Primary Result	Confirmation Result	RPD	Q	Dilution Factor	Date Analyzed
2,4,5-T	5.1	19.0	18.1	5		1	08/26/25 19:52
2,4,5-TP	4.6	16.4	16.5	<1		1	08/26/25 19:52
2,4-D	6.6	14.7	17.7	19		1	08/26/25 19:52

ALS Group USA, Corp.
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Confirmation Results

Client: ALS Environmental - US
Project: 13800_Tacoma
Matrix: Soil

Service Request: R2510153

Date Collected: NA

Date Received:

Sample Name: Lab Control Sample

Lab Code: RQ2511241-02

Units: ug/Kg

Basis: Dry

Chlorinated Herbicides by GC

Analytical Method: 8151A

Prep Method: Method

	MDL	Primary Result	Confirmation Result	RPD	Q	Dilution Factor	Date Analyzed
2,4,5-T	5.1	17.4	16.4	6		1	08/27/25 02:17
2,4,5-TP	4.6	14.1	14.7	4		1	08/27/25 02:17
2,4-D	6.6	13.6	16.2	17		1	08/27/25 02:17

ALS Group USA, Corp.
dba ALS Environmental

Confirmation Results

Client: ALS Environmental - US
Project: 13800_Tacoma
Matrix: Soil

Service Request: R2510153
Date Collected: NA
Date Received:

Sample Name: Duplicate Lab Control Sample
Lab Code: RQ2511241-03

Units: ug/Kg
Basis: Dry

Chlorinated Herbicides by GC

Analytical Method: 8151A
Prep Method: Method

	MDL	Primary Result	Confirmation Result	RPD	Q	Dilution Factor	Date Analyzed
2,4,5-T	5.0	19.2	18.7	3		1	08/27/25 02:36
2,4,5-TP	4.5	16.2	16.7	3		1	08/27/25 02:36
2,4-D	6.5	15.0	17.7	17		1	08/27/25 02:36