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November 21, 2024
(24-3918)

Vision Plumbing LLC
Attn: Mr. Trevor Easterling
1677 Snyder Road
East Lansing, Michigan 48823

**SUBJECT: *Phase II Environmental Site Assessment
 409 Lentz Court, Lansing, Michigan 48917***

Dear Mr. Easterling,

Triterra has prepared this correspondence following the completion of a Phase II Environmental Site Assessment (ESA) on the parcel of land located at 409 Lentz Court in the City of Lansing, Michigan 48917 (the subject property). The subject property consists of approximately 0.35 acres developed with an approximately 7,046-square foot, single-story commercial building utilized for automobile repair services.

A subject property Location diagram is presented as Figure 1. subject property layout and boundaries are depicted on the subject property Orientation Diagram (Figure 2).

BACKGROUND

The historical and current uses of the subject property were evaluated as part of Triterra's Phase I ESA, dated October 28, 2024.

Based on Triterra's review of historical information, the subject property appears to be undeveloped land as early as 1938 and is heavily forested. The subject property continued to be undeveloped until the existing commercial structure is constructed in 1972. Known historical occupants include Paramount PTO Chip (1977), Purdlator Courier (1977), Westside Car Care (1995 – 2020). Currently, the subject property building is vacant.

The Phase I ESA identified the recognized environmental concern (REC) listed below.

- **The potential for contamination on the subject property from historical operations.** The subject property historically operated as an automotive repair from at least 1995 until approximately 2020. Available records indicated the storage of various hazardous substances on the subject property. There is potential a leak or release has occurred during operation. Staining was observed on the concrete flooring within the former shop area of the building.



PHASE II ESA SAMPLING ACTIVITIES

On November 7, 2024, Triterra completed a subsurface investigation on the subject property. Triterra, in conjunction with North American Probing Services (NAPS), advanced a total of six soil borings to a maximum depth of 15 feet below grade. Triterra collected soil samples for visual classification, field screening and for evidence of contamination. The soil boring locations were placed in areas of suspected impact from historical operations.

The soil boring and sample locations are depicted in Figure 3. The location and purpose of each boring/sample is summarized in the table below.

BORING/SAMPLE ID	LOCATION & PURPOSE OF BORING/SAMPLE
B-1	Approximate location of former parts washer solvent use
B-2	Approximate location of former 55-gallon antifreeze tanks (2)
B-3	Adjoining the trench drain within the workshop area
B-4	Approximate location of former bulk oil storage tanks (2 – 275 gallons)
B-5	Approximate location of former waste oil storage (2 – 275 gallons & 1 – 500 gallon)
B-6	General coverage

Triterra collected and submitted five soil samples and one groundwater sample to Merit Laboratories, Inc. (Merit) in East Lansing, Michigan for chemical analysis of one or more of the following target analytes: volatile organic compounds (VOCs), polynuclear aromatic hydrocarbons (PAHs), and select metals (cadmium, total chromium, and lead). The target parameters were selected to evaluate for hazardous constituents reasonably expected to be present based on historical subject property operations.

The soil conditions generally consist of medium to coarse sand to approximately five feet below grade, underlain by clay to approximately 15 feet below grade, with intermittent layers of sand located at approximately 10 to 11 feet below grade. No evidence of urban fill material (i.e. pieces of coal, brick, glass, and lumber pieces, etc) were observed during the investigation. No subsurface odors were noted, and no staining was observed during the investigation. The PID screening results of soil samples were below the detection limit of the instrument (one part per million). Groundwater was encountered at approximately 8.5 to 12 feet below grade.

Soil Boring Logs are included in Attachment 2. Stratification lines on the logs indicate a general transition between soil types and are not intended to show an area of exact geological change.

RESULTS

Triterra's soil and groundwater sample results are summarized in Table 1 and Table 2, respectively. The analytical laboratory reports prepared by Merit are included in Attachment 3.

The chemical analysis results were compared to the Part 201 Residential Generic Cleanup Criteria (GCC) to evaluate environmental liability management for the prospective purchaser, and to evaluate due care issues related to future use of the subject property.

Soil

According to the laboratory analytical results, no VOCs or PAHs were detected in the soil samples above the laboratory detection limits. Concentrations of chromium and lead were reported in soil samples above the laboratory method detection limits but below the Michigan Department of Environment, Great Lakes and Energy (EGLE) Part 201 Residential GCC.

Groundwater

According to the laboratory analytical results, no VOCs or PAHs were detected in the groundwater samples above the laboratory detection limits.

CONCLUSIONS

Based on the results of the Phase II ESA, in Triterra's opinion, preparation of a Baseline Environmental Assessment (BEA) would not be necessary prior to purchasing the subject property for the following reasons:

- The concentrations of various VOCs, PAHs, and metals were reported either below laboratory detection limits or below the Part 201 Residential GCC.
- Based on the results of the Phase II ESA, no chemical constituents are present in the soil at concentrations that pose a threat to human health. Therefore, there would be no due care activities that would need to be completed to protect human health during future use of the subject property.

It is Triterra's opinion additional subsurface investigations are not needed.

In the process of obtaining information in preparation of this letter report, procedures were followed that represent reasonable practices and principles in a manner consistent with that level of care and skill ordinarily exercised by members of this profession currently practicing under similar conditions. Site conditions may be encountered which have not been addressed by this and previous environmental assessments.

Should you have any questions or comments regarding this letter, please contact the undersigned at 517-702-0470.

Sincerely,

TRITERRA

Alexsis Bowen

Alexsis Bowen
Environmental Scientist

JP Buckingham

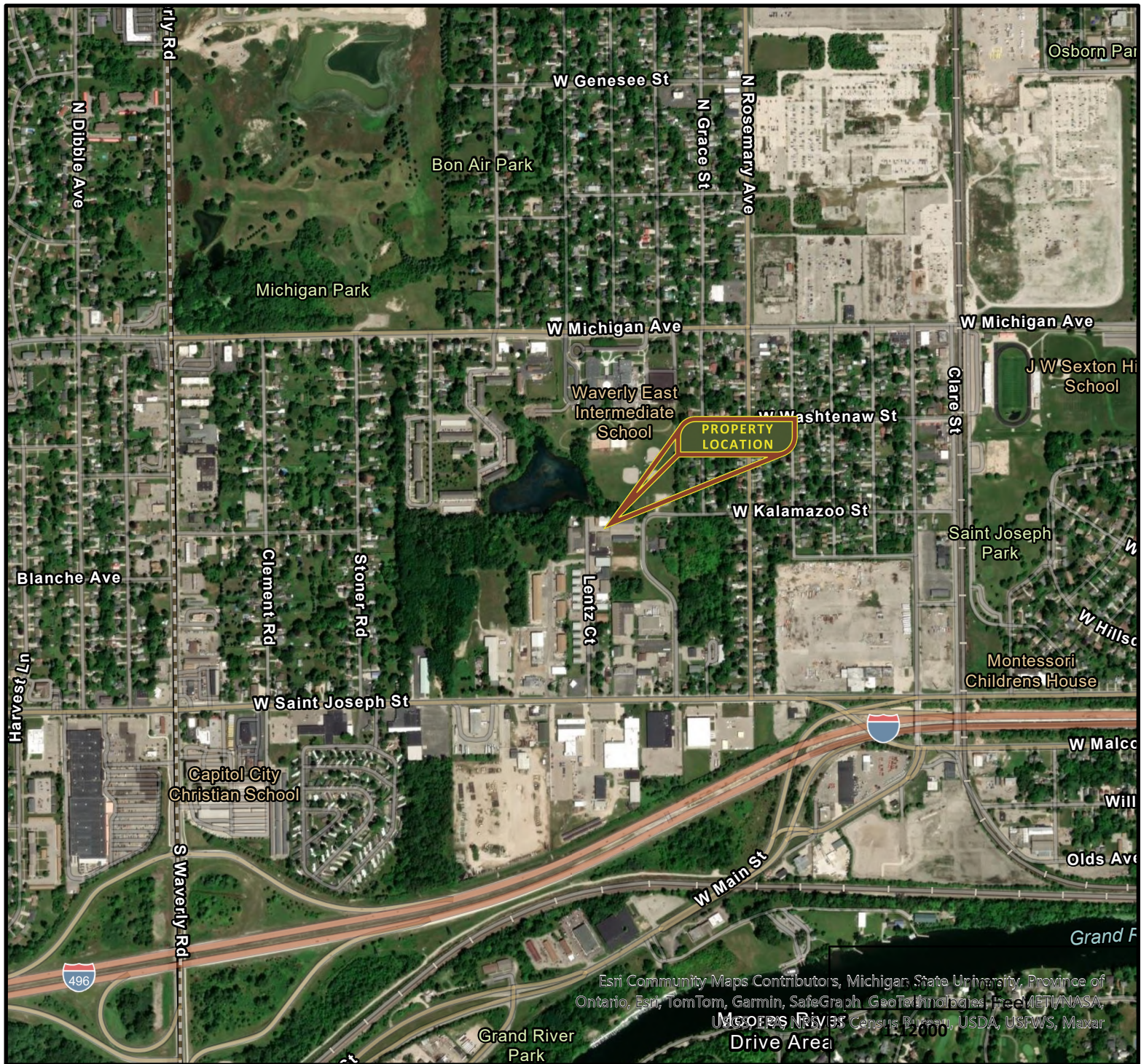
JP Buckingham
Professional Geologist | COO

Figure 1: Subject Property Location
Figure 2: Subject Property Orientation Diagram
Figure 3: Approximate Boring Locations

Table 1: Summary of Soil Analytical Results
Table 2: Summary of Groundwater Analytical Results

Attachment 1: Assessing Records
Attachment 2: Soil Boring Logs
Attachment 3: Analytical Laboratory Report
Attachment 4: Professional Qualifications

FIGURES



TRIOTERRA

FIGURE 1 SUBJECT PROPERTY LOCATION

409 LENTZ COURT
LANSING, MICHIGAN 48917
INGHAM COUNTY
T4N, R2W, S18

PROJECT NUMBER 24-3918





TRI TERRA

FIGURE 2

PROPERTY ORIENTATION DIAGRAM

PROJECT NUMBER 24-3918

**409 LENTZ COURT
LANSING, MICHIGAN 48917**

**CREATED BY: AFB
10/4/2024**



TRI TERRA

FIGURE 3

APPROXIMATE BORING LOCATIONS

PROJECT NUMBER 24-3918

**409 LENTZ COURT
LANSING, MICHIGAN 48917**

**CREATED BY: AFB
11/18/2024**

TABLES

TABLE 1
SUMMARY OF SOIL ANALYTICAL RESULTS
Project Number 24-3918
409 Lentz Court
Lansing, Michigan

Analyzed Constituents	Chemical Abstract Service Number	Statewide Default Background Levels	EGLE Part 201 Residential Generic Cleanup Criteria and Screening Levels						Volatilization to Indoor Air Pathway (VIAP) Screening Levels		Sample ID and Collection Date				
			Drinking Water Protection Criteria	Groundwater Surface Water Interface Protection Criteria	Soil Volatilization to Indoor Air Inhalation Criteria (SVIIC)	Infinite Source Volatile Soil Inhalation Criteria (VSIC)	Particulate Soil Inhalation Criteria	Direct Contact Criteria	Residential	Nonresidential	S68369.01	S68369.02	S68369.03	S68369.04	S68369.05
											B-2	B-3	B-4	B-5	B-6
											11/07/2024	11/07/2024	11/07/2024	11/07/2024	11/07/2024
(Refer to laboratory report for method reference data)															
Volatiles, VOCs ug/Kg															
Various other VOCs	Varies	NA	Vw/C	Vw/C	Vw/C	Vw/C	Vw/C	Vw/C	Vw/C	Vw/C	<RL	<RL	<RL	<RL	<RL
Semivolatiles, PAHs ug/Kg															
Various other PAHs	Varies	NA	Vw/C	Vw/C	Vw/C	Vw/C	Vw/C	Vw/C	Vw/C	Vw/C	<RL	<RL	<RL	<RL	<RL
Inorganics, Metals ug/Kg															
Cadmium*	7440439	1,200	6,000	3,600	NLV	NLV	1,700,000	550,000	NA	NA	<RL	<RL	<RL	<RL	<RL
Chromium III*	16065831	18,000 (total)	1,000,000,000	2,900,000,000	NLV	NLV	330,000,000	790,000,000	NA	NA	4,670	7,790	4,090	11,600	4,820
Lead, Total*	7439921	21,000	700,000	2,500,000	NLV	NLV	100,000,000	400,000	NA	NA	4,780	5,940	3,590	11,200	3,970

NOTES:

1. Analytical results compared to EGLE (formerly MDEQ) criteria presented in Administrative Rules for Part 201, Environmental Remediation, of the Natural Resources and Environmental Protection Act, 1994 PA 451, effective 12/30/2013.

2. Concentrations reported in ppb (parts per billion or ug/kg).

3. Detected results shown in **BOLD**. Exceedances are highlighted.

4. * = GSI Protection was calculated for the indicated metals using the EGLE spreadsheet for calculating GSI. A default water hardness value of 150 mg/kg as CaCO3 was used to calculate GSI. Results are presented for surface water receiving bodies that are protected as a drinking water source.

5. <RL = Result was less than the laboratory reporting limits, - = Constituent was not analyzed, NA = Not applicable, NLL = Not likely to leach under most soil conditions, NLV = Not likely to volatilize under most conditions, ID = Insufficient data to develop criterion, Vw/C = Varies with constituent.

6. VIAP = Volatilization to Indoor Air Pathway Screening Levels, September 2020.



TABLE 2

SUMMARY OF GROUNDWATER ANALYTICAL RESULTS

Project Number 24-3918

409 Lentz Court

Lansing, Michigan

Analyzed Constituents	Chemical Abstract Service Number	EGLE Part 201 Residential Generic Cleanup Criteria and Screening Levels							Volatilization to Indoor Air Pathway (VIAP) Screening Levels	Sample ID and Collection Date
		Residential Drinking Water Criteria	Non-Residential Drinking Water Criteria	Groundwater Surface Water Interface Criteria	Residential Groundwater Volatilization to Indoor Air Inhalation Criteria	Nonresidential Groundwater Volatilization to Indoor Air Inhalation Criteria	Water Solubility	Flammability and Explosivity Screening Level	Residential	
(Refer to laboratory report for method reference data)										S68369.06 GW-1 11/07/2024
Volatiles, VOCs ug/L										
Various other VOCs	Varies	Vw/C	Vw/C	Vw/C	Vw/C	Vw/C	Vw/C	Vw/C	Vw/C	<RL
Semivolatiles, PAHs ug/L										
Various other PAHS	Varies	Vw/C	Vw/C	Vw/C	Vw/C	Vw/C	Vw/C	Vw/C	Vw/C	<RL

NOTES:

1. Analytical results compared to EGLE (formerly MDEQ) criteria presented in Administrative Rules for Part 201, Environmental Remediation, of the Natural Resources and Environmental Protection Act, 1994 PA 451, effective December 21, 2020.
2. Concentrations reported in ppb (parts per billion or ug/L).
3. Detected results shown in **BOLD**. Exceedances are highlighted.
4. * = GSI Protection was calculated for the indicated metals using the EGLE spreadsheet for calculating GSI. A default water hardness value of 150 mg/kg as CaCO3 was used to calculate GSI. Results are presented for surface water receiving bodies that are **not** protected as a drinking water source.
5. <RL = Result was less than the laboratory reporting limits, - = Constituent was not analyzed, NA = Not applicable, NLL = Not likely to leach under most soil conditions, NLV = Not likely to volatilize under most conditions, ID = Insufficient data to develop criterion, Vw/C = Varies with constituent.
6. RIASL = Recommended Interim Action Screening Levels, August 2017.

ATTACHMENT 1

PROPERTY DESCRIPTION INFORMATION

409 LENTZ CT LANSING, MI 48917 (Property Address)

Parcel Number: 33-21-01-18-451-001



Item 1 of 6

[5 Images / 1 Sketch](#)**Property Owner: WESTSIDE CAR CARE INC****Summary Information**

- > Commercial/Industrial Building Summary
 - Yr Built: 1972
 - # of Buildings: 1
 - Total Sq.Ft.: 7,046
- > 4 Special Assessments found
- > Assessed Value: \$119,200 | Taxable Value: \$119,200
- > Property Tax information found

Owner and Taxpayer Information

Owner	WESTSIDE CAR CARE INC 409 LENTZ CT LANSING, MI 48917	Taxpayer	WESTSIDE CAR CARE INC 409 LENTZ CT LANSING, MI 48917
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General Information for Tax Year 2024

Property Class	201 COMMERCIAL-IMPROVED	Unit	21-01 LANSING CHARTER TWP
School District	WAVERLY SCHOOLS	Assessed Value	\$119,200
MAP #	1-18G	Taxable Value	\$119,200
USER NUM IDX	0	State Equalized Value	\$119,200
USER ALPHA 1	<i>Not Available</i>	Date of Last Name Change	09/23/2019
USER ALPHA 3	<i>Not Available</i>	Notes	<i>Not Available</i>
Historical District	<i>Not Available</i>	Census Block Group	<i>Not Available</i>
USER ALPHA 2	<i>Not Available</i>	Exemption	<i>No Data to Display</i>

Principal Residence Exemption Information**Homestead Date** *No Data to Display*

Principal Residence Exemption	June 1st	Final
2024	0.0000 %	0.0000 %

Previous Year Information

Year	MBOR Assessed	Final SEV	Final Taxable
2023	\$114,500	\$114,500	\$110,565
2022	\$105,300	\$105,300	\$105,300
2021	\$108,600	\$108,600	\$108,600

Land Information

Zoning Code	G GENER	Total Acres	0.348
Land Value	\$34,400	Land Improvements	\$12,609
Renaissance Zone	No	Renaissance Zone Expiration Date	<i>No Data to Display</i>
ECF Neighborhood	<i>Not Available</i>	Mortgage Code	<i>No Data to Display</i>
Lot Dimensions/Comments	<i>Not Available</i>	Neighborhood Enterprise Zone	No

Lot(s)	Frontage	Depth
No lots found.		
Total Frontage: 0.00 ft		Average Depth: 0.00 ft

Legal Description

LOT 1 FOX'S REPLAT OF LOT 29 SUPERVISORS PLAT OF BAILEY ACRES.

Date of Last Split/Combine	<i>No Data to Display</i>	Number of Splits Left	0
Date Form Filed	<i>No Data to Display</i>	Unallocated Div.s of Parent	0
Date Created	01/01/0001	Unallocated Div.s Transferred	0
Acreage of Parent	0.00	Rights Were Transferred	<i>Not Available</i>
Split Number	0	Courtesy Split	<i>Not Available</i>
Parent Parcel	<i>No Data to Display</i>		

Sale History

Sale Date	Sale Price	Instrument	Grantor	Grantee	Terms of Sale	Liber/Page
05/20/1996	\$150,000.00	WD	AMERICAN EDUCATION SERVICES	WESTSIDE CAR CARE, INC.	03-ARM'S LENGTH	2371/48

Building Information - 7046 sq ft Garages - Service/Fleet Facilities Repair (Commercial)

Floor Area	7,046 sq ft	Estimated TCV	\$177,501
Occupancy	Garages - Service/Fleet Facilities Repair	Class	D,Pole
Stories Above Ground	1	Average Story Height	14 ft
Basement Wall Height	<i>Not Available</i>	Identical Units	<i>Not Available</i>
Year Built	1972	Year Remodeled	<i>No Data to Display</i>
Percent Complete	0%	Heat	Space Heaters, Gas with Fan
Physical Percent Good	44%	Functional Percent Good	100%
Economic Percent Good	100%	Effective Age	20 yrs

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ATTACHMENT 2

SOIL BORING LOGS

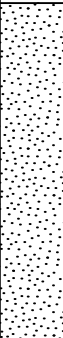
PROJECT NUMBER: 24-3918	DRILLING DATE: 11/7/2024	WATER LEVEL: 11
FIELD REP: Casey Heath	CONTRACTOR: NAPS	SCREEN INTERVAL: 8.5-12
CLIENT: Horizon Bank	DRILLING METHOD: Direct Push	SOIL GAS WELL DEPTH: NA
ADDRESS: 409 Lentz Court, Lansing, MI 48917	BORING SIZE: 2"	SOIL GAS SCREEN SIZE: NA
	TOTAL DEPTH: 15'	

COMMENTS Assessing the sub-slab conditions near former parts cleaner solvent station.	LOGGED BY CH CHECKED BY JB
--	---

Depth (FT)	Graphic Log	Material Description	PID	Well Diagram GW-1
1		CONCRETE: Concrete, hard, dry	<1	 concrete cement grout
2		SAND; Sand with gravel, medium-coarse grained, brown, damp.	<1	
3				
4			<1	 backfill
5		CLAY; Clay, organic material, black, damp.		
6		CLAY; Clay with trace silts, fine grained, grey, damp.	<1	
7				
8			<1	
9				
10		SAND; Sand with some gravel, some clay, medium-coarse grained, brown, saturated.	<1	 filter pack
11		CLAY; Clay with trace silts, fine grained, grey, damp.		
12			1.3	
13			1.7	 clay
14				
15		Termination Depth at: 15ft	1.5	

PROJECT NUMBER: 24-3918 FIELD REP: Casey Heath CLIENT: Horizon Bank ADDRESS: 409 Lentz Court, Lansing, MI 48917		DRILLING DATE: 11/7/2024 CONTRACTOR: NAPS DRILLING METHOD: Direct Push BORING SIZE: 2" TOTAL DEPTH: 5'		WATER LEVEL: NA SCREEN INTERVAL: NA SOIL GAS WELL DEPTH: NA SOIL GAS SCREEN SIZE: NA	
COMMENTS Assessing sub-slab conditions near former anti-freeze storage area.				LOGGED BY CH CHECKED BY JB	

Depth (FT)	Samples	Graphic Log	Material Description	PID
0.2			CONCRETE; Concrete, hard, dry.	
0.4			SAND; Sand with some gravel, medium-coarse grained, brown, damp.	
0.6				
0.8				
1				<1
1.2				
1.4				
1.6				
1.8				
2				<1
2.2				
2.4				
2.6	B-2 2.5-3.0' @ 1045			
2.8				
3				
3.2				
3.4				
3.6				
3.8				
4				<1
4.2				
4.4				
4.6				
4.8			CLAY; Clay with trace gravel and trace sand, grey, damp.	<1
5			Termination Depth at: 5ft	
5.2				

PROJECT NUMBER: 24-3918 FIELD REP: Casey Heath CLIENT: Horizon Bank ADDRESS: 409 Lentz Court, Lansing, MI 48917		DRILLING DATE: 11/7/2024 CONTRACTOR: NAPS DRILLING METHOD: Direct Push BORING SIZE: 2" TOTAL DEPTH: 5'		WATER LEVEL: NA SCREEN INTERVAL: NA SOIL GAS WELL DEPTH: NA SOIL GAS SCREEN SIZE: NA	
COMMENTS Assessing sub-slab conditions near in floor trench drains.				LOGGED BY CH CHECKED BY JB	
Depth (FT)	Samples	Graphic Log	Material Description	PID	
0.2			CONCRETE; Concrete, hard, dry.	<1	
0.4			SAND; Sand, medium-coarse grained, brown, damp.		
0.6					
0.8				<1	
1.0					
1.2					
1.4				<1	
1.6			CLAY; Sandy clay with some silt, brown, damp.		
1.8					
2.0	B-3 2-2.5' @ 1110			<1	
2.2					
2.4					
2.6				<1	
2.8					
3.0					
3.2				<1	
3.4					
3.6					
3.8				<1	
4.0					
4.2					
4.4				<1	
4.6					
4.8					
5.0			Termination Depth at: 5ft		
5.2					

PROJECT NUMBER: 24-3918 FIELD REP: Casey Heath CLIENT: Horizon Bank ADDRESS: 409 Lentz Court, Lansing, MI 48917		DRILLING DATE: 11/7/2024 CONTRACTOR: NAPS DRILLING METHOD: Direct Push BORING SIZE: 2" TOTAL DEPTH: 5'		WATER LEVEL: SCREEN INTERVAL: SOIL GAS WELL DEPTH: SOIL GAS SCREEN SIZE:	
COMMENTS Assessing area of former bulk storage of oil products.				LOGGED BY CH CHECKED BY JB	

Depth (FT)	Samples	Graphic Log	Material Description	PID
0.2			CONCRETE; Concrete, hard, dry.	
0.4			SAND; Sand with some gravel, medium-coarse grained, brown, damp.	
0.6				
0.8				
1				<1
1.2				
1.4				
1.6				
1.8				
2				<1
2.2				
2.4				
2.6	B-4 2.5-3.0' @ 1136			
2.8				
3				<1
3.2				
3.4				
3.6				
3.8				
4				
4.2				
4.4				
4.6				
4.8				<1
5			Termination Depth at: 5ft	
5.2				

PROJECT NUMBER: 24-3918 FIELD REP: Casey Heath CLIENT: Horizon Bank ADDRESS: 409 Lentz Court, Lansing, MI 48917		DRILLING DATE: 11/7/2024 CONTRACTOR: NAPS DRILLING METHOD: Direct Push BORING SIZE: 2" TOTAL DEPTH: 15'		WATER LEVEL: NA SCREEN INTERVAL: NA SOIL GAS WELL DEPTH: NA SOIL GAS SCREEN SIZE: NA	
COMMENTS Assessing area outside near former used oil bulk storage tanks.				LOGGED BY CH CHECKED BY JB	

Depth (FT)	Samples	Graphic Log	Material Description	PID
1			ASPHALT: Hard	<1
2			SANDY GRAVEL; Sand with gravel and some clay, medium-coarse grained, brown, damp.	
3	B-5 2.5-3.0' @ 1311		NO RETRIEVAL; Pushed a stone with macro head.	<1
4				
5			CLAY; CLay, dense, grey, damp.	<1
6				
7				
8				
9				
10				
11				
12				
13				
14				
15			Termination Depth at:15ft	

PROJECT NUMBER: 24-3918 FIELD REP: Casey Heath CLIENT: Horizon Bank ADDRESS: 409 Lentz Court, Lansing, MI 48917			DRILLING DATE: 11/7/2024 CONTRACTOR: NAPS DRILLING METHOD: Direct Push BORING SIZE: 2" TOTAL DEPTH: 15'			WATER LEVEL: 11 SCREEN INTERVAL: NA SOIL GAS WELL DEPTH: NA SOIL GAS SCREEN SIZE: NA		
COMMENTS Assessing southeastern region of parking lot. Small seam of silty clay saturated, not enough for recharge to sample.						LOGGED BY CH CHECKED BY JB		
Depth (FT)	Samples	Graphic Log	Material Description				PID	
			ASPHALT: Hard					
1			SANDY GRAVEL; Sand with gravel, fill material, medium-coarse, brown, damp.					
2	B-6 2-3' @ 1220						<1	
3			SANDY GRAVEL; Sand with gravel and some clay, fine-medium grained, brown, damp.				<1	
4								
5			CLAY; Clay with some organic black material, high plastic, grey, damp.					
6							<1	
7								
8							<1	
9								
10			SILTY CLAY; Clay with silt, fine grained, saturated at 11'					
11			CLAY; Clay with trace silts, grey, damp.				<1	
12								
13							<1	
14							<1	
15			Termination Depth at: 15ft					

***ATTACHMENT 3
ANALYTICAL
LABORATORY
REPORT***



Analytical Laboratory Report

Report ID: S68369.01(01)
Generated on 11/15/2024

Report to
Attention: JP Buckingham
TriTerra
1375 S. Washington Avenue, Suite 100
Lansing, MI 48910

Phone: 517-853-2151 FAX:
Email: jp.buckingham@triterra.us

Additional Contacts: Brad Buswell, Casey C. Heath

Report produced by
Merit Laboratories, Inc.
2680 East Lansing Drive
East Lansing, MI 48823

Phone: (517) 332-0167 FAX: (517) 332-6333

Contacts for report questions:
John Lavery (johnlavery@meritlabs.com)
Barbara Ball (bball@meritlabs.com)

Report Summary
Lab Sample ID(s): S68369.01-S68369.06
Project: 24-3918 Lentz
Collected Date(s): 11/07/2024
Submitted Date/Time: 11/08/2024 14:20
Sampled by: Casey C. Heath
P.O. #:

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- Sample Summary (Page 5)


Maya Murshak
Technical Director



Analytical Laboratory Report

General Report Notes

Analytical results relate only to the samples tested, in the condition received by the laboratory.

Methods may be modified for improved performance.

Results reported on a dry weight basis where applicable.

'Not detected' indicates that parameter was not found at a level equal to or greater than the reporting limit (RL).

When MDL results are provided, then 'Not detected' indicates that parameter was not found at a level equal to or greater than the MDL.

40 CFR Part 136 Table II Required Containers, Preservation Techniques and Holding Times for the Clean Water Act specify that samples for acrolein and acrylonitrile, and 2-chloroethylvinyl ether need to be preserved at a pH in the range of 4 to 5 or if not preserved, analyzed within 3 days of sampling.

QA/QC corresponding to this analytical report is a separate document with the same Merit ID reference and is available upon request.

Starred (*) analytes are not NY NELAP accredited.

Samples are held by the lab for 30 days from the final report date unless a written request to hold longer is provided by the client.

Report shall not be reproduced except in full, without the written approval of Merit Laboratories, Inc.

Limits for drinking water samples, are listed as the MCL Limits (Maximum Contaminant Level Concentrations)

PFAS requirement: Section 9.3.8 of U.S. EPA Method 537.1 states "If the method analyte(s) found in the Field Sample is present in the FRB at a concentration greater than 1/3 the MRL, then all samples collected with that FRB are invalid and must be recollected and reanalyzed."

Samples submitted without an accompanying FRB may not be acceptable for compliance purposes.

Wisconsin PFAs analysis: MDL = LOD; RL = LOQ. LOD and LOQ are adjusted for dilution.

All accreditations/certifications held by this laboratory are listed on page 3. Not all accreditations/certifications are applicable to this report.

For a specific list of accredited analytes, please feel free to contact the laboratory or visit <https://www.meritlabs.com/certifications>.

Report Narrative

There is no additional narrative for this analytical report

Laboratory Accreditations (For Reference Only)

Authority	Accreditation ID
Michigan DEQ	#9956
DOD ELAP & ISO/IEC 17025:2017	#69699 PJLA Testing
WBENC	#2005110032
Ohio VAP	#CL0002
Indiana DOH	#C-MI-07
New York NELAC	#11814
North Carolina DENR	#680
North Carolina DOH	#26702
Pennsylvania DEP	#68-05884
Wisconsin DNR	FID# 399147320

Qualifier Descriptions

Qualifier	Description
!	Result is outside of stated limit criteria
B	Compound also found in associated method blank
E	Concentration exceeds calibration range
F	Analysis run outside of holding time
G	Estimated result due to extraction run outside of holding time
H	Sample submitted and run outside of holding time
I	Matrix interference with internal standard
J	Estimated value less than reporting limit, but greater than MDL
L	Elevated reporting limit due to low sample amount
M	Result reported to MDL not RDL
O	Analysis performed by outside laboratory. See attached report.
R	Preliminary result
S	Surrogate recovery outside of control limits
T	No correction for total solids
X	Elevated reporting limit due to matrix interference
Y	Elevated reporting limit due to high target concentration
b	Value detected less than reporting limit, but greater than MDL
e	Reported value estimated due to interference
j	Analyte also found in associated method blank
o	Associated EIS outside of control limits
p	Benzo(b)Fluoranthene and Benzo(k)Fluoranthene integrated as one peak.
q	Qualifier ion ratio outside of control limits
x	Preserved from bulk sample

Glossary of Abbreviations

Abbreviation	Description
RL/RDL	Reporting Limit
MDL	Method Detection Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
SW	EPA SW 846 (Soil and Wastewater) Methods
E	EPA Methods
SM	Standard Methods
LN	Linear
BR	Branched



Analytical Laboratory Report

Method Summary

Method	Version
N/A	Not Applicable
SM2540B	Standard Method 2540 B 2020
SW3050B	SW 846 Method 3050B Revision 2 December 1996
SW3510C	SW 846 Method 3510C Revision 3 December 1996
SW3546	SW 846 Method 3546 Revision 0 February 2007
SW5030C/8260C	SW 846 Method 8260C Revision 3 August 2006 / 5030C Revision 3 May 2003
SW5035A	SW 846 Method 5035A Revision 1 July 2002
SW5035A/8260C	SW 846 Method 8260C Revision 3 August 2006 / 5035A Revision 1 July 2002
SW6020A	SW 846 Method 6020A Revision 1 February 2007
SW8270D	SW 846 Method 8270D Revision 4 February 2007



Analytical Laboratory Report

Sample Summary (6 samples)

Sample ID	Sample Tag	Matrix	Collected Date/Time
S68369.01	B-2	Soil	11/07/24 10:45
S68369.02	B-3	Soil	11/07/24 11:10
S68369.03	B-4	Soil	11/07/24 11:36
S68369.04	B-5	Soil	11/07/24 13:11
S68369.05	B-6	Soil	11/07/24 12:20
S68369.06	GW-1	Groundwater	11/07/24 10:15



Analytical Laboratory Report

Lab Sample ID: S68369.01

Sample Tag: B-2

Collected Date/Time: 11/07/2024 10:45

Matrix: Soil

COC Reference: 173332

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.9	IR
1	40mL Glass	MeOH	Yes	4.9	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Metal Digestion	Completed	SW3050B	11/12/24 10:10	JRH	
PNA Extraction*	Completed	SW3546	11/13/24 11:30	DJS	
Sample wt. (g) / Methanol (ml)*	10.139/10	SW5035A	11/08/24 17:00	BDO	

Inorganics

Method: SM2540B, Run Date: 11/11/24 13:13, Analyst: MAM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	93	1		%	1		

Metals

Method: SW6020A, Run Date: 11/12/24 11:33, Analyst: JRH

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Cadmium	Not detected	200		ug/kg	264	7440-43-9	
Chromium	4,670	500		ug/kg	264	7440-47-3	
Lead	4,780	300		ug/kg	264	7439-92-1	

Organics - Semi-Volatiles

Polynuclear Aromatics, Method: SW8270D, Run Date: 11/14/24 00:41, Analyst: PL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Acenaphthene	Not detected	300		ug/kg	10	83-32-9	
Acenaphthylene	Not detected	300		ug/kg	10	208-96-8	
Anthracene	Not detected	300		ug/kg	10	120-12-7	
Benzo(a)anthracene	Not detected	300		ug/kg	10	56-55-3	
Benzo(a)pyrene	Not detected	300		ug/kg	10	50-32-8	
Benzo(b)fluoranthene	Not detected	300		ug/kg	10	205-99-2	
Benzo(k)fluoranthene	Not detected	300		ug/kg	10	207-08-9	
Benzo(ghi)perylene	Not detected	300		ug/kg	10	191-24-2	
Chrysene	Not detected	300		ug/kg	10	218-01-9	
Dibenzo(ah)anthracene	Not detected	300		ug/kg	10	53-70-3	
Fluoranthene	Not detected	300		ug/kg	10	206-44-0	
Fluorene	Not detected	300		ug/kg	10	86-73-7	
Indeno(1,2,3-cd)pyrene	Not detected	300		ug/kg	10	193-39-5	
Naphthalene	Not detected	300		ug/kg	10	91-20-3	
Phenanthrene	Not detected	300		ug/kg	10	85-01-8	
Pyrene	Not detected	300		ug/kg	10	129-00-0	
2-Methylnaphthalene	Not detected	300		ug/kg	10	91-57-6	
1-Methylnaphthalene	Not detected	300		ug/kg	10	90-12-0	



Analytical Laboratory Report

Lab Sample ID: S68369.01 (continued)
Sample Tag: B-2

Organics - Volatiles

Volatile Organics 5035, Method: SW5035A/8260C, Run Date: 11/11/24 17:06, Analyst: KAG

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Diethyl ether	Not detected	200		ug/kg	56.8	60-29-7	
Acetone	Not detected	1,000		ug/kg	56.8	67-64-1	
Methyl iodide	Not detected	100		ug/kg	56.8	74-88-4	
Carbon disulfide	Not detected	300		ug/kg	56.8	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	200		ug/kg	56.8	1634-04-4	
Acrylonitrile	Not detected	100		ug/kg	56.8	107-13-1	
2-Butanone (MEK)	Not detected	850		ug/kg	56.8	78-93-3	
Dichlorodifluoromethane	Not detected	300		ug/kg	56.8	75-71-8	
Chloromethane	Not detected	300		ug/kg	56.8	74-87-3	
Vinyl chloride	Not detected	60		ug/kg	56.8	75-01-4	
Bromomethane	Not detected	200		ug/kg	56.8	74-83-9	
Chloroethane	Not detected	300		ug/kg	56.8	75-00-3	
Trichlorofluoromethane	Not detected	100		ug/kg	56.8	75-69-4	
1,1-Dichloroethene	Not detected	60		ug/kg	56.8	75-35-4	
Methylene chloride	Not detected	100		ug/kg	56.8	75-09-2	
trans-1,2-Dichloroethene	Not detected	60		ug/kg	56.8	156-60-5	
1,1-Dichloroethane	Not detected	60		ug/kg	56.8	75-34-3	
cis-1,2-Dichloroethene	Not detected	60		ug/kg	56.8	156-59-2	
Tetrahydrofuran	Not detected	1,000		ug/kg	56.8	109-99-9	
Chloroform	Not detected	60		ug/kg	56.8	67-66-3	
Bromochloromethane	Not detected	100		ug/kg	56.8	74-97-5	
1,1,1-Trichloroethane	Not detected	60		ug/kg	56.8	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	3,000		ug/kg	56.8	108-10-1	
2-Hexanone	Not detected	3,000		ug/kg	56.8	591-78-6	
Carbon tetrachloride	Not detected	60		ug/kg	56.8	56-23-5	
Benzene	Not detected	60		ug/kg	56.8	71-43-2	
1,2-Dichloroethane	Not detected	60		ug/kg	56.8	107-06-2	
Trichloroethene	Not detected	60		ug/kg	56.8	79-01-6	
1,2-Dichloropropane	Not detected	60		ug/kg	56.8	78-87-5	
Bromodichloromethane	Not detected	100		ug/kg	56.8	75-27-4	
Dibromomethane	Not detected	300		ug/kg	56.8	74-95-3	
cis-1,3-Dichloropropene	Not detected	60		ug/kg	56.8	10061-01-5	
Toluene	Not detected	60		ug/kg	56.8	108-88-3	
trans-1,3-Dichloropropene	Not detected	60		ug/kg	56.8	10061-02-6	
1,1,2-Trichloroethane	Not detected	60		ug/kg	56.8	79-00-5	
Tetrachloroethene	Not detected	60		ug/kg	56.8	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	60		ug/kg	56.8	110-57-6	
Dibromochloromethane	Not detected	100		ug/kg	56.8	124-48-1	
1,2-Dibromoethane	Not detected	20		ug/kg	56.8	106-93-4	M
Chlorobenzene	Not detected	60		ug/kg	56.8	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	100		ug/kg	56.8	630-20-6	
Ethylbenzene	Not detected	60		ug/kg	56.8	100-41-4	
p,m-Xylene	Not detected	100		ug/kg	56.8		
o-Xylene	Not detected	60		ug/kg	56.8	95-47-6	
Styrene	Not detected	60		ug/kg	56.8	100-42-5	
Isopropylbenzene	Not detected	300		ug/kg	56.8	98-82-8	
Bromoform	Not detected	100		ug/kg	56.8	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	60		ug/kg	56.8	79-34-5	

M-Result reported to MDL not RDL



Analytical Laboratory Report

Lab Sample ID: S68369.01 (continued)
Sample Tag: B-2

Volatile Organics 5035, Method: SW5035A/8260C, Run Date: 11/11/24 17:06, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
1,2,3-Trichloropropane	Not detected	100		ug/kg	56.8	96-18-4	
n-Propylbenzene	Not detected	60		ug/kg	56.8	103-65-1	
Bromobenzene	Not detected	100		ug/kg	56.8	108-86-1	
1,3,5-Trimethylbenzene	Not detected	60		ug/kg	56.8	108-67-8	
tert-Butylbenzene	Not detected	60		ug/kg	56.8	98-06-6	
1,2,4-Trimethylbenzene	Not detected	60		ug/kg	56.8	95-63-6	
sec-Butylbenzene	Not detected	60		ug/kg	56.8	135-98-8	
p-Isopropyltoluene	Not detected	100		ug/kg	56.8	99-87-6	
1,3-Dichlorobenzene	Not detected	100		ug/kg	56.8	541-73-1	
1,4-Dichlorobenzene	Not detected	100		ug/kg	56.8	106-46-7	
1,2-Dichlorobenzene	Not detected	100		ug/kg	56.8	95-50-1	
1,2,3-Trimethylbenzene	Not detected	60		ug/kg	56.8	526-73-8	
n-Butylbenzene	Not detected	60		ug/kg	56.8	104-51-8	
Hexachloroethane	Not detected	300		ug/kg	56.8	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	300		ug/kg	56.8	96-12-8	
1,2,4-Trichlorobenzene	Not detected	370		ug/kg	56.8	120-82-1	
1,2,3-Trichlorobenzene	Not detected	370		ug/kg	56.8	87-61-6	
Naphthalene	Not detected	300		ug/kg	56.8	91-20-3	
2-Methylnaphthalene	Not detected	100		ug/kg	56.8	91-57-6	



Analytical Laboratory Report

Lab Sample ID: S68369.02
Sample Tag: B-3
Collected Date/Time: 11/07/2024 11:10
Matrix: Soil
COC Reference: 173332

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.9	IR
1	40mL Glass	MeOH	Yes	4.9	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Metal Digestion	Completed	SW3050B	11/12/24 10:10	JRH	
PNA Extraction*	Completed	SW3546	11/13/24 11:30	DJS	
Sample wt. (g) / Methanol (ml)*	8.932/10	SW5035A	11/08/24 17:00	BDO	

Inorganics

Method: SM2540B, Run Date: 11/11/24 13:13, Analyst: MAM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	89	1		%	1		

Metals

Method: SW6020A, Run Date: 11/12/24 11:39, Analyst: JRH

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Cadmium	Not detected	200		ug/kg	259	7440-43-9	
Chromium	7,790	500		ug/kg	259	7440-47-3	
Lead	5,940	300		ug/kg	259	7439-92-1	

Organics - Semi-Volatiles

Polynuclear Aromatics, Method: SW8270D, Run Date: 11/14/24 00:58, Analyst: PL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Acenaphthene	Not detected	300		ug/kg	10	83-32-9	
Acenaphthylene	Not detected	300		ug/kg	10	208-96-8	
Anthracene	Not detected	300		ug/kg	10	120-12-7	
Benzo(a)anthracene	Not detected	300		ug/kg	10	56-55-3	
Benzo(a)pyrene	Not detected	300		ug/kg	10	50-32-8	
Benzo(b)fluoranthene	Not detected	300		ug/kg	10	205-99-2	
Benzo(k)fluoranthene	Not detected	300		ug/kg	10	207-08-9	
Benzo(ghi)perylene	Not detected	300		ug/kg	10	191-24-2	
Chrysene	Not detected	300		ug/kg	10	218-01-9	
Dibenzo(ah)anthracene	Not detected	300		ug/kg	10	53-70-3	
Fluoranthene	Not detected	300		ug/kg	10	206-44-0	
Fluorene	Not detected	300		ug/kg	10	86-73-7	
Indeno(1,2,3-cd)pyrene	Not detected	300		ug/kg	10	193-39-5	
Naphthalene	Not detected	300		ug/kg	10	91-20-3	
Phenanthrene	Not detected	300		ug/kg	10	85-01-8	
Pyrene	Not detected	300		ug/kg	10	129-00-0	
2-Methylnaphthalene	Not detected	300		ug/kg	10	91-57-6	
1-Methylnaphthalene	Not detected	300		ug/kg	10	90-12-0	



Analytical Laboratory Report

Lab Sample ID: S68369.02 (continued)

Sample Tag: B-3

Organics - Volatiles

Volatile Organics 5035, Method: SW5035A/8260C, Run Date: 11/11/24 17:30, Analyst: KAG

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Diethyl ether	Not detected	300		ug/kg	69.1	60-29-7	
Acetone	Not detected	1,000		ug/kg	69.1	67-64-1	
Methyl iodide	Not detected	100		ug/kg	69.1	74-88-4	
Carbon disulfide	Not detected	300		ug/kg	69.1	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	300		ug/kg	69.1	1634-04-4	
Acrylonitrile	Not detected	100		ug/kg	69.1	107-13-1	
2-Butanone (MEK)	Not detected	1,000		ug/kg	69.1	78-93-3	
Dichlorodifluoromethane	Not detected	300		ug/kg	69.1	75-71-8	
Chloromethane	Not detected	300		ug/kg	69.1	74-87-3	
Vinyl chloride	Not detected	70		ug/kg	69.1	75-01-4	
Bromomethane	Not detected	300		ug/kg	69.1	74-83-9	
Chloroethane	Not detected	300		ug/kg	69.1	75-00-3	
Trichlorofluoromethane	Not detected	100		ug/kg	69.1	75-69-4	
1,1-Dichloroethene	Not detected	70		ug/kg	69.1	75-35-4	
Methylene chloride	Not detected	100		ug/kg	69.1	75-09-2	
trans-1,2-Dichloroethene	Not detected	70		ug/kg	69.1	156-60-5	
1,1-Dichloroethane	Not detected	70		ug/kg	69.1	75-34-3	
cis-1,2-Dichloroethene	Not detected	70		ug/kg	69.1	156-59-2	
Tetrahydrofuran	Not detected	1,000		ug/kg	69.1	109-99-9	
Chloroform	Not detected	70		ug/kg	69.1	67-66-3	
Bromochloromethane	Not detected	100		ug/kg	69.1	74-97-5	
1,1,1-Trichloroethane	Not detected	70		ug/kg	69.1	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	3,000		ug/kg	69.1	108-10-1	
2-Hexanone	Not detected	3,000		ug/kg	69.1	591-78-6	
Carbon tetrachloride	Not detected	70		ug/kg	69.1	56-23-5	
Benzene	Not detected	70		ug/kg	69.1	71-43-2	
1,2-Dichloroethane	Not detected	70		ug/kg	69.1	107-06-2	
Trichloroethene	Not detected	70		ug/kg	69.1	79-01-6	
1,2-Dichloropropane	Not detected	70		ug/kg	69.1	78-87-5	
Bromodichloromethane	Not detected	100		ug/kg	69.1	75-27-4	
Dibromomethane	Not detected	300		ug/kg	69.1	74-95-3	
cis-1,3-Dichloropropene	Not detected	70		ug/kg	69.1	10061-01-5	
Toluene	Not detected	70		ug/kg	69.1	108-88-3	
trans-1,3-Dichloropropene	Not detected	70		ug/kg	69.1	10061-02-6	
1,1,2-Trichloroethane	Not detected	70		ug/kg	69.1	79-00-5	
Tetrachloroethene	Not detected	70		ug/kg	69.1	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	70		ug/kg	69.1	110-57-6	
Dibromochloromethane	Not detected	100		ug/kg	69.1	124-48-1	
1,2-Dibromoethane	Not detected	30		ug/kg	69.1	106-93-4	M
Chlorobenzene	Not detected	70		ug/kg	69.1	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	100		ug/kg	69.1	630-20-6	
Ethylbenzene	Not detected	70		ug/kg	69.1	100-41-4	
p,m-Xylene	Not detected	100		ug/kg	69.1		
o-Xylene	Not detected	70		ug/kg	69.1	95-47-6	
Styrene	Not detected	70		ug/kg	69.1	100-42-5	
Isopropylbenzene	Not detected	300		ug/kg	69.1	98-82-8	
Bromoform	Not detected	100		ug/kg	69.1	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	70		ug/kg	69.1	79-34-5	

M-Result reported to MDL not RDL



Analytical Laboratory Report

Lab Sample ID: S68369.02 (continued)
Sample Tag: B-3

Volatile Organics 5035, Method: SW5035A/8260C, Run Date: 11/11/24 17:30, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
1,2,3-Trichloropropane	Not detected	100		ug/kg	69.1	96-18-4	
n-Propylbenzene	Not detected	70		ug/kg	69.1	103-65-1	
Bromobenzene	Not detected	100		ug/kg	69.1	108-86-1	
1,3,5-Trimethylbenzene	Not detected	70		ug/kg	69.1	108-67-8	
tert-Butylbenzene	Not detected	70		ug/kg	69.1	98-06-6	
1,2,4-Trimethylbenzene	Not detected	70		ug/kg	69.1	95-63-6	
sec-Butylbenzene	Not detected	70		ug/kg	69.1	135-98-8	
p-Isopropyltoluene	Not detected	100		ug/kg	69.1	99-87-6	
1,3-Dichlorobenzene	Not detected	100		ug/kg	69.1	541-73-1	
1,4-Dichlorobenzene	Not detected	100		ug/kg	69.1	106-46-7	
1,2-Dichlorobenzene	Not detected	100		ug/kg	69.1	95-50-1	
1,2,3-Trimethylbenzene	Not detected	70		ug/kg	69.1	526-73-8	
n-Butylbenzene	Not detected	70		ug/kg	69.1	104-51-8	
Hexachloroethane	Not detected	400		ug/kg	69.1	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	300		ug/kg	69.1	96-12-8	
1,2,4-Trichlorobenzene	Not detected	460		ug/kg	69.1	120-82-1	
1,2,3-Trichlorobenzene	Not detected	460		ug/kg	69.1	87-61-6	
Naphthalene	Not detected	300		ug/kg	69.1	91-20-3	
2-Methylnaphthalene	Not detected	100		ug/kg	69.1	91-57-6	



Analytical Laboratory Report

Lab Sample ID: S68369.03
Sample Tag: B-4
Collected Date/Time: 11/07/2024 11:36
Matrix: Soil
COC Reference: 173332

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.9	IR
1	40mL Glass	MeOH	Yes	4.9	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Metal Digestion	Completed	SW3050B	11/12/24 10:10	JRH	
PNA Extraction*	Completed	SW3546	11/13/24 11:30	DJS	
Sample wt. (g) / Methanol (ml)*	9.218/10	SW5035A	11/08/24 17:00	BDO	

Inorganics

Method: SM2540B, Run Date: 11/11/24 13:13, Analyst: MAM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	94	1		%	1		

Metals

Method: SW6020A, Run Date: 11/12/24 11:40, Analyst: JRH

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Cadmium	Not detected	200		ug/kg	231	7440-43-9	
Chromium	4,090	500		ug/kg	231	7440-47-3	
Lead	3,590	300		ug/kg	231	7439-92-1	

Organics - Semi-Volatiles

Polynuclear Aromatics, Method: SW8270D, Run Date: 11/14/24 01:15, Analyst: PL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Acenaphthene	Not detected	300		ug/kg	10	83-32-9	
Acenaphthylene	Not detected	300		ug/kg	10	208-96-8	
Anthracene	Not detected	300		ug/kg	10	120-12-7	
Benzo(a)anthracene	Not detected	300		ug/kg	10	56-55-3	
Benzo(a)pyrene	Not detected	300		ug/kg	10	50-32-8	
Benzo(b)fluoranthene	Not detected	300		ug/kg	10	205-99-2	
Benzo(k)fluoranthene	Not detected	300		ug/kg	10	207-08-9	
Benzo(ghi)perylene	Not detected	300		ug/kg	10	191-24-2	
Chrysene	Not detected	300		ug/kg	10	218-01-9	
Dibenzo(ah)anthracene	Not detected	300		ug/kg	10	53-70-3	
Fluoranthene	Not detected	300		ug/kg	10	206-44-0	
Fluorene	Not detected	300		ug/kg	10	86-73-7	
Indeno(1,2,3-cd)pyrene	Not detected	300		ug/kg	10	193-39-5	
Naphthalene	Not detected	300		ug/kg	10	91-20-3	
Phenanthrene	Not detected	300		ug/kg	10	85-01-8	
Pyrene	Not detected	300		ug/kg	10	129-00-0	
2-Methylnaphthalene	Not detected	300		ug/kg	10	91-57-6	
1-Methylnaphthalene	Not detected	300		ug/kg	10	90-12-0	



Analytical Laboratory Report

Lab Sample ID: S68369.03 (continued)
Sample Tag: B-4

Organics - Volatiles

Volatile Organics 5035, Method: SW5035A/8260C, Run Date: 11/11/24 17:54, Analyst: KAG

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Diethyl ether	Not detected	200		ug/kg	60.9	60-29-7	
Acetone	Not detected	1,000		ug/kg	60.9	67-64-1	
Methyl iodide	Not detected	100		ug/kg	60.9	74-88-4	
Carbon disulfide	Not detected	300		ug/kg	60.9	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	200		ug/kg	60.9	1634-04-4	
Acrylonitrile	Not detected	100		ug/kg	60.9	107-13-1	
2-Butanone (MEK)	Not detected	910		ug/kg	60.9	78-93-3	
Dichlorodifluoromethane	Not detected	300		ug/kg	60.9	75-71-8	
Chloromethane	Not detected	300		ug/kg	60.9	74-87-3	
Vinyl chloride	Not detected	60		ug/kg	60.9	75-01-4	
Bromomethane	Not detected	200		ug/kg	60.9	74-83-9	
Chloroethane	Not detected	300		ug/kg	60.9	75-00-3	
Trichlorofluoromethane	Not detected	100		ug/kg	60.9	75-69-4	
1,1-Dichloroethene	Not detected	60		ug/kg	60.9	75-35-4	
Methylene chloride	Not detected	100		ug/kg	60.9	75-09-2	
trans-1,2-Dichloroethene	Not detected	60		ug/kg	60.9	156-60-5	
1,1-Dichloroethane	Not detected	60		ug/kg	60.9	75-34-3	
cis-1,2-Dichloroethene	Not detected	60		ug/kg	60.9	156-59-2	
Tetrahydrofuran	Not detected	1,000		ug/kg	60.9	109-99-9	
Chloroform	Not detected	60		ug/kg	60.9	67-66-3	
Bromochloromethane	Not detected	100		ug/kg	60.9	74-97-5	
1,1,1-Trichloroethane	Not detected	60		ug/kg	60.9	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	3,000		ug/kg	60.9	108-10-1	
2-Hexanone	Not detected	3,000		ug/kg	60.9	591-78-6	
Carbon tetrachloride	Not detected	60		ug/kg	60.9	56-23-5	
Benzene	Not detected	60		ug/kg	60.9	71-43-2	
1,2-Dichloroethane	Not detected	60		ug/kg	60.9	107-06-2	
Trichloroethene	Not detected	60		ug/kg	60.9	79-01-6	
1,2-Dichloropropane	Not detected	60		ug/kg	60.9	78-87-5	
Bromodichloromethane	Not detected	100		ug/kg	60.9	75-27-4	
Dibromomethane	Not detected	300		ug/kg	60.9	74-95-3	
cis-1,3-Dichloropropene	Not detected	60		ug/kg	60.9	10061-01-5	
Toluene	Not detected	60		ug/kg	60.9	108-88-3	
trans-1,3-Dichloropropene	Not detected	60		ug/kg	60.9	10061-02-6	
1,1,2-Trichloroethane	Not detected	60		ug/kg	60.9	79-00-5	
Tetrachloroethene	Not detected	60		ug/kg	60.9	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	60		ug/kg	60.9	110-57-6	
Dibromochloromethane	Not detected	100		ug/kg	60.9	124-48-1	
1,2-Dibromoethane	Not detected	20		ug/kg	60.9	106-93-4	M
Chlorobenzene	Not detected	60		ug/kg	60.9	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	100		ug/kg	60.9	630-20-6	
Ethylbenzene	Not detected	60		ug/kg	60.9	100-41-4	
p,m-Xylene	Not detected	100		ug/kg	60.9		
o-Xylene	Not detected	60		ug/kg	60.9	95-47-6	
Styrene	Not detected	60		ug/kg	60.9	100-42-5	
Isopropylbenzene	Not detected	300		ug/kg	60.9	98-82-8	
Bromoform	Not detected	100		ug/kg	60.9	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	60		ug/kg	60.9	79-34-5	

M-Result reported to MDL not RDL



Analytical Laboratory Report

Lab Sample ID: S68369.03 (continued)
Sample Tag: B-4

Volatile Organics 5035, Method: SW5035A/8260C, Run Date: 11/11/24 17:54, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
1,2,3-Trichloropropane	Not detected	100		ug/kg	60.9	96-18-4	
n-Propylbenzene	Not detected	60		ug/kg	60.9	103-65-1	
Bromobenzene	Not detected	100		ug/kg	60.9	108-86-1	
1,3,5-Trimethylbenzene	Not detected	60		ug/kg	60.9	108-67-8	
tert-Butylbenzene	Not detected	60		ug/kg	60.9	98-06-6	
1,2,4-Trimethylbenzene	Not detected	60		ug/kg	60.9	95-63-6	
sec-Butylbenzene	Not detected	60		ug/kg	60.9	135-98-8	
p-Isopropyltoluene	Not detected	100		ug/kg	60.9	99-87-6	
1,3-Dichlorobenzene	Not detected	100		ug/kg	60.9	541-73-1	
1,4-Dichlorobenzene	Not detected	100		ug/kg	60.9	106-46-7	
1,2-Dichlorobenzene	Not detected	100		ug/kg	60.9	95-50-1	
1,2,3-Trimethylbenzene	Not detected	60		ug/kg	60.9	526-73-8	
n-Butylbenzene	Not detected	60		ug/kg	60.9	104-51-8	
Hexachloroethane	Not detected	400		ug/kg	60.9	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	300		ug/kg	60.9	96-12-8	
1,2,4-Trichlorobenzene	Not detected	400		ug/kg	60.9	120-82-1	
1,2,3-Trichlorobenzene	Not detected	400		ug/kg	60.9	87-61-6	
Naphthalene	Not detected	300		ug/kg	60.9	91-20-3	
2-Methylnaphthalene	Not detected	100		ug/kg	60.9	91-57-6	



Analytical Laboratory Report

Lab Sample ID: S68369.04
Sample Tag: B-5
Collected Date/Time: 11/07/2024 13:11
Matrix: Soil
COC Reference: 173332

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.9	IR
1	40mL Glass	MeOH	Yes	4.9	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Metal Digestion	Completed	SW3050B	11/12/24 10:10	JRH	
PNA Extraction*	Completed	SW3546	11/13/24 11:30	DJS	
Sample wt. (g) / Methanol (ml)*	9.647/10	SW5035A	11/08/24 17:00	BDO	

Inorganics

Method: SM2540B, Run Date: 11/11/24 13:13, Analyst: MAM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	89	1		%	1		

Metals

Method: SW6020A, Run Date: 11/12/24 11:41, Analyst: JRH

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Cadmium	Not detected	200		ug/kg	258	7440-43-9	
Chromium	11,600	500		ug/kg	258	7440-47-3	
Lead	11,200	300		ug/kg	258	7439-92-1	

Organics - Semi-Volatiles

Polynuclear Aromatics, Method: SW8270D, Run Date: 11/14/24 01:32, Analyst: PL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Acenaphthene	Not detected	300		ug/kg	10	83-32-9	
Acenaphthylene	Not detected	300		ug/kg	10	208-96-8	
Anthracene	Not detected	300		ug/kg	10	120-12-7	
Benzo(a)anthracene	Not detected	300		ug/kg	10	56-55-3	
Benzo(a)pyrene	Not detected	300		ug/kg	10	50-32-8	
Benzo(b)fluoranthene	Not detected	300		ug/kg	10	205-99-2	
Benzo(k)fluoranthene	Not detected	300		ug/kg	10	207-08-9	
Benzo(ghi)perylene	Not detected	300		ug/kg	10	191-24-2	
Chrysene	Not detected	300		ug/kg	10	218-01-9	
Dibenzo(ah)anthracene	Not detected	300		ug/kg	10	53-70-3	
Fluoranthene	Not detected	300		ug/kg	10	206-44-0	
Fluorene	Not detected	300		ug/kg	10	86-73-7	
Indeno(1,2,3-cd)pyrene	Not detected	300		ug/kg	10	193-39-5	
Naphthalene	Not detected	300		ug/kg	10	91-20-3	
Phenanthrene	Not detected	300		ug/kg	10	85-01-8	
Pyrene	Not detected	300		ug/kg	10	129-00-0	
2-Methylnaphthalene	Not detected	300		ug/kg	10	91-57-6	
1-Methylnaphthalene	Not detected	300		ug/kg	10	90-12-0	



Analytical Laboratory Report

Lab Sample ID: S68369.04 (continued)

Sample Tag: B-5

Organics - Volatiles

Volatile Organics 5035, Method: SW5035A/8260C, Run Date: 11/12/24 15:18, Analyst: KAG

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Diethyl ether	Not detected	300		ug/kg	64.4	60-29-7	
Acetone	Not detected	1,000		ug/kg	64.4	67-64-1	
Methyl iodide	Not detected	100		ug/kg	64.4	74-88-4	
Carbon disulfide	Not detected	300		ug/kg	64.4	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	300		ug/kg	64.4	1634-04-4	
Acrylonitrile	Not detected	100		ug/kg	64.4	107-13-1	
2-Butanone (MEK)	Not detected	970		ug/kg	64.4	78-93-3	
Dichlorodifluoromethane	Not detected	300		ug/kg	64.4	75-71-8	
Chloromethane	Not detected	300		ug/kg	64.4	74-87-3	
Vinyl chloride	Not detected	60		ug/kg	64.4	75-01-4	
Bromomethane	Not detected	300		ug/kg	64.4	74-83-9	
Chloroethane	Not detected	300		ug/kg	64.4	75-00-3	
Trichlorofluoromethane	Not detected	100		ug/kg	64.4	75-69-4	
1,1-Dichloroethene	Not detected	60		ug/kg	64.4	75-35-4	
Methylene chloride	Not detected	100		ug/kg	64.4	75-09-2	
trans-1,2-Dichloroethene	Not detected	60		ug/kg	64.4	156-60-5	
1,1-Dichloroethane	Not detected	60		ug/kg	64.4	75-34-3	
cis-1,2-Dichloroethene	Not detected	60		ug/kg	64.4	156-59-2	
Tetrahydrofuran	Not detected	1,000		ug/kg	64.4	109-99-9	
Chloroform	Not detected	60		ug/kg	64.4	67-66-3	
Bromochloromethane	Not detected	100		ug/kg	64.4	74-97-5	
1,1,1-Trichloroethane	Not detected	60		ug/kg	64.4	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	3,000		ug/kg	64.4	108-10-1	
2-Hexanone	Not detected	3,000		ug/kg	64.4	591-78-6	
Carbon tetrachloride	Not detected	60		ug/kg	64.4	56-23-5	
Benzene	Not detected	60		ug/kg	64.4	71-43-2	
1,2-Dichloroethane	Not detected	60		ug/kg	64.4	107-06-2	
Trichloroethene	Not detected	60		ug/kg	64.4	79-01-6	
1,2-Dichloropropane	Not detected	60		ug/kg	64.4	78-87-5	
Bromodichloromethane	Not detected	100		ug/kg	64.4	75-27-4	
Dibromomethane	Not detected	300		ug/kg	64.4	74-95-3	
cis-1,3-Dichloropropene	Not detected	60		ug/kg	64.4	10061-01-5	
Toluene	Not detected	60		ug/kg	64.4	108-88-3	
trans-1,3-Dichloropropene	Not detected	60		ug/kg	64.4	10061-02-6	
1,1,2-Trichloroethane	Not detected	60		ug/kg	64.4	79-00-5	
Tetrachloroethene	Not detected	60		ug/kg	64.4	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	60		ug/kg	64.4	110-57-6	
Dibromochloromethane	Not detected	100		ug/kg	64.4	124-48-1	
1,2-Dibromoethane	Not detected	30		ug/kg	64.4	106-93-4	M
Chlorobenzene	Not detected	60		ug/kg	64.4	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	100		ug/kg	64.4	630-20-6	
Ethylbenzene	Not detected	60		ug/kg	64.4	100-41-4	
p,m-Xylene	Not detected	100		ug/kg	64.4		
o-Xylene	Not detected	60		ug/kg	64.4	95-47-6	
Styrene	Not detected	60		ug/kg	64.4	100-42-5	
Isopropylbenzene	Not detected	300		ug/kg	64.4	98-82-8	
Bromoform	Not detected	100		ug/kg	64.4	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	60		ug/kg	64.4	79-34-5	

M-Result reported to MDL not RDL



Analytical Laboratory Report

Lab Sample ID: S68369.04 (continued)
Sample Tag: B-5

Volatile Organics 5035, Method: SW5035A/8260C, Run Date: 11/12/24 15:18, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
1,2,3-Trichloropropane	Not detected	100		ug/kg	64.4	96-18-4	
n-Propylbenzene	Not detected	60		ug/kg	64.4	103-65-1	
Bromobenzene	Not detected	100		ug/kg	64.4	108-86-1	
1,3,5-Trimethylbenzene	Not detected	60		ug/kg	64.4	108-67-8	
tert-Butylbenzene	Not detected	60		ug/kg	64.4	98-06-6	
1,2,4-Trimethylbenzene	Not detected	60		ug/kg	64.4	95-63-6	
sec-Butylbenzene	Not detected	60		ug/kg	64.4	135-98-8	
p-Isopropyltoluene	Not detected	100		ug/kg	64.4	99-87-6	
1,3-Dichlorobenzene	Not detected	100		ug/kg	64.4	541-73-1	
1,4-Dichlorobenzene	Not detected	100		ug/kg	64.4	106-46-7	
1,2-Dichlorobenzene	Not detected	100		ug/kg	64.4	95-50-1	
1,2,3-Trimethylbenzene	Not detected	60		ug/kg	64.4	526-73-8	
n-Butylbenzene	Not detected	60		ug/kg	64.4	104-51-8	
Hexachloroethane	Not detected	400		ug/kg	64.4	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	300		ug/kg	64.4	96-12-8	
1,2,4-Trichlorobenzene	Not detected	430		ug/kg	64.4	120-82-1	
1,2,3-Trichlorobenzene	Not detected	430		ug/kg	64.4	87-61-6	
Naphthalene	Not detected	300		ug/kg	64.4	91-20-3	
2-Methylnaphthalene	Not detected	100		ug/kg	64.4	91-57-6	



Analytical Laboratory Report

Lab Sample ID: S68369.05
Sample Tag: B-6
Collected Date/Time: 11/07/2024 12:20
Matrix: Soil
COC Reference: 173332

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.9	IR
1	40mL Glass	MeOH	Yes	4.9	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Metal Digestion	Completed	SW3050B	11/12/24 10:10	JRH	
PNA Extraction*	Completed	SW3546	11/13/24 11:30	DJS	
Sample wt. (g) / Methanol (ml)*	10.026/10	SW5035A	11/08/24 17:00	BDO	

Inorganics

Method: SM2540B, Run Date: 11/11/24 13:13, Analyst: MAM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	92	1		%	1		

Metals

Method: SW6020A, Run Date: 11/12/24 11:43, Analyst: JRH

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Cadmium	Not detected	200		ug/kg	258	7440-43-9	
Chromium	4,820	500		ug/kg	258	7440-47-3	
Lead	3,970	300		ug/kg	258	7439-92-1	

Organics - Semi-Volatiles

Polynuclear Aromatics, Method: SW8270D, Run Date: 11/14/24 01:49, Analyst: PL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Acenaphthene	Not detected	300		ug/kg	10	83-32-9	
Acenaphthylene	Not detected	300		ug/kg	10	208-96-8	
Anthracene	Not detected	300		ug/kg	10	120-12-7	
Benzo(a)anthracene	Not detected	300		ug/kg	10	56-55-3	
Benzo(a)pyrene	Not detected	300		ug/kg	10	50-32-8	
Benzo(b)fluoranthene	Not detected	300		ug/kg	10	205-99-2	
Benzo(k)fluoranthene	Not detected	300		ug/kg	10	207-08-9	
Benzo(ghi)perylene	Not detected	300		ug/kg	10	191-24-2	
Chrysene	Not detected	300		ug/kg	10	218-01-9	
Dibenzo(ah)anthracene	Not detected	300		ug/kg	10	53-70-3	
Fluoranthene	Not detected	300		ug/kg	10	206-44-0	
Fluorene	Not detected	300		ug/kg	10	86-73-7	
Indeno(1,2,3-cd)pyrene	Not detected	300		ug/kg	10	193-39-5	
Naphthalene	Not detected	300		ug/kg	10	91-20-3	
Phenanthrene	Not detected	300		ug/kg	10	85-01-8	
Pyrene	Not detected	300		ug/kg	10	129-00-0	
2-Methylnaphthalene	Not detected	300		ug/kg	10	91-57-6	
1-Methylnaphthalene	Not detected	300		ug/kg	10	90-12-0	



Analytical Laboratory Report

Lab Sample ID: S68369.05 (continued)
Sample Tag: B-6

Organics - Volatiles

Volatile Organics 5035, Method: SW5035A/8260C, Run Date: 11/11/24 18:42, Analyst: KAG

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Diethyl ether	Not detected	200		ug/kg	58.6	60-29-7	
Acetone	Not detected	1,000		ug/kg	58.6	67-64-1	
Methyl iodide	Not detected	100		ug/kg	58.6	74-88-4	
Carbon disulfide	Not detected	300		ug/kg	58.6	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	200		ug/kg	58.6	1634-04-4	
Acrylonitrile	Not detected	100		ug/kg	58.6	107-13-1	
2-Butanone (MEK)	Not detected	880		ug/kg	58.6	78-93-3	
Dichlorodifluoromethane	Not detected	300		ug/kg	58.6	75-71-8	
Chloromethane	Not detected	300		ug/kg	58.6	74-87-3	
Vinyl chloride	Not detected	60		ug/kg	58.6	75-01-4	
Bromomethane	Not detected	200		ug/kg	58.6	74-83-9	
Chloroethane	Not detected	300		ug/kg	58.6	75-00-3	
Trichlorofluoromethane	Not detected	100		ug/kg	58.6	75-69-4	
1,1-Dichloroethene	Not detected	60		ug/kg	58.6	75-35-4	
Methylene chloride	Not detected	100		ug/kg	58.6	75-09-2	
trans-1,2-Dichloroethene	Not detected	60		ug/kg	58.6	156-60-5	
1,1-Dichloroethane	Not detected	60		ug/kg	58.6	75-34-3	
cis-1,2-Dichloroethene	Not detected	60		ug/kg	58.6	156-59-2	
Tetrahydrofuran	Not detected	1,000		ug/kg	58.6	109-99-9	
Chloroform	Not detected	60		ug/kg	58.6	67-66-3	
Bromochloromethane	Not detected	100		ug/kg	58.6	74-97-5	
1,1,1-Trichloroethane	Not detected	60		ug/kg	58.6	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	3,000		ug/kg	58.6	108-10-1	
2-Hexanone	Not detected	3,000		ug/kg	58.6	591-78-6	
Carbon tetrachloride	Not detected	60		ug/kg	58.6	56-23-5	
Benzene	Not detected	60		ug/kg	58.6	71-43-2	
1,2-Dichloroethane	Not detected	60		ug/kg	58.6	107-06-2	
Trichloroethene	Not detected	60		ug/kg	58.6	79-01-6	
1,2-Dichloropropane	Not detected	60		ug/kg	58.6	78-87-5	
Bromodichloromethane	Not detected	100		ug/kg	58.6	75-27-4	
Dibromomethane	Not detected	300		ug/kg	58.6	74-95-3	
cis-1,3-Dichloropropene	Not detected	60		ug/kg	58.6	10061-01-5	
Toluene	Not detected	60		ug/kg	58.6	108-88-3	
trans-1,3-Dichloropropene	Not detected	60		ug/kg	58.6	10061-02-6	
1,1,2-Trichloroethane	Not detected	60		ug/kg	58.6	79-00-5	
Tetrachloroethene	Not detected	60		ug/kg	58.6	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	60		ug/kg	58.6	110-57-6	
Dibromochloromethane	Not detected	100		ug/kg	58.6	124-48-1	
1,2-Dibromoethane	Not detected	20		ug/kg	58.6	106-93-4	M
Chlorobenzene	Not detected	60		ug/kg	58.6	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	100		ug/kg	58.6	630-20-6	
Ethylbenzene	Not detected	60		ug/kg	58.6	100-41-4	
p,m-Xylene	Not detected	100		ug/kg	58.6		
o-Xylene	Not detected	60		ug/kg	58.6	95-47-6	
Styrene	Not detected	60		ug/kg	58.6	100-42-5	
Isopropylbenzene	Not detected	300		ug/kg	58.6	98-82-8	
Bromoform	Not detected	100		ug/kg	58.6	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	60		ug/kg	58.6	79-34-5	

M-Result reported to MDL not RDL



Analytical Laboratory Report

Lab Sample ID: S68369.05 (continued)
Sample Tag: B-6

Volatile Organics 5035, Method: SW5035A/8260C, Run Date: 11/11/24 18:42, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
1,2,3-Trichloropropane	Not detected	100		ug/kg	58.6	96-18-4	
n-Propylbenzene	Not detected	60		ug/kg	58.6	103-65-1	
Bromobenzene	Not detected	100		ug/kg	58.6	108-86-1	
1,3,5-Trimethylbenzene	Not detected	60		ug/kg	58.6	108-67-8	
tert-Butylbenzene	Not detected	60		ug/kg	58.6	98-06-6	
1,2,4-Trimethylbenzene	Not detected	60		ug/kg	58.6	95-63-6	
sec-Butylbenzene	Not detected	60		ug/kg	58.6	135-98-8	
p-Isopropyltoluene	Not detected	100		ug/kg	58.6	99-87-6	
1,3-Dichlorobenzene	Not detected	100		ug/kg	58.6	541-73-1	
1,4-Dichlorobenzene	Not detected	100		ug/kg	58.6	106-46-7	
1,2-Dichlorobenzene	Not detected	100		ug/kg	58.6	95-50-1	
1,2,3-Trimethylbenzene	Not detected	60		ug/kg	58.6	526-73-8	
n-Butylbenzene	Not detected	60		ug/kg	58.6	104-51-8	
Hexachloroethane	Not detected	400		ug/kg	58.6	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	300		ug/kg	58.6	96-12-8	
1,2,4-Trichlorobenzene	Not detected	390		ug/kg	58.6	120-82-1	
1,2,3-Trichlorobenzene	Not detected	390		ug/kg	58.6	87-61-6	
Naphthalene	Not detected	300		ug/kg	58.6	91-20-3	
2-Methylnaphthalene	Not detected	100		ug/kg	58.6	91-57-6	



Analytical Laboratory Report

Lab Sample ID: S68369.06

Sample Tag: GW-1

Collected Date/Time: 11/07/2024 10:15

Matrix: Groundwater

COC Reference: 173332

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	1L Amber	None	Yes	4.9	IR
2	40mL Glass	HCL	Yes	4.9	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
pH check for VOCs*	>2	N/A	11/12/24 10:55	NDK	
PNA Extraction	Completed	SW3510C	11/13/24 15:00	JWR	

Organics - Semi-Volatiles

Polynuclear Aromatic Hydrocarbon, Method: SW8270D, Run Date: 11/14/24 19:16, Analyst: PL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Acenaphthene	Not detected	5		ug/L	2	83-32-9	
Acenaphthylene	Not detected	5		ug/L	2	208-96-8	
Anthracene	Not detected	5		ug/L	2	120-12-7	
Benzo(a)anthracene	Not detected	1		ug/L	2	56-55-3	
Benzo(a)pyrene	Not detected	1		ug/L	2	50-32-8	
Benzo(b)fluoranthene	Not detected	1		ug/L	2	205-99-2	
Benzo(k)fluoranthene	Not detected	1		ug/L	2	207-08-9	
Benzo(ghi)perylene	Not detected	1		ug/L	2	191-24-2	
Chrysene	Not detected	1		ug/L	2	218-01-9	
Dibenzo(ah)anthracene	Not detected	2		ug/L	2	53-70-3	
Fluoranthene	Not detected	1		ug/L	2	206-44-0	
Fluorene	Not detected	5		ug/L	2	86-73-7	
Indeno(1,2,3-cd)pyrene	Not detected	2		ug/L	2	193-39-5	
Naphthalene	Not detected	5		ug/L	2	91-20-3	
Phenanthrene	Not detected	2		ug/L	2	85-01-8	
Pyrene	Not detected	5		ug/L	2	129-00-0	
2-Methylnaphthalene	Not detected	5		ug/L	2	91-57-6	
1-Methylnaphthalene	Not detected	5		ug/L	2	90-12-0	

Organics - Volatiles

Volatile Organics - DEQ List, Method: SW5030C/8260C, Run Date: 11/11/24 16:33, Analyst: NDK

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Diethyl ether	Not detected	10		ug/L	1	60-29-7	
Acetone	Not detected	50		ug/L	1	67-64-1	
Methyl iodide	Not detected	1		ug/L	1	74-88-4	
Carbon disulfide	Not detected	5		ug/L	1	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	5		ug/L	1	1634-04-4	
Acrylonitrile	Not detected	2		ug/L	1	107-13-1	
2-Butanone (MEK)	Not detected	25		ug/L	1	78-93-3	
Dichlorodifluoromethane	Not detected	5		ug/L	1	75-71-8	
Chloromethane	Not detected	5		ug/L	1	74-87-3	
Vinyl chloride	Not detected	1		ug/L	1	75-01-4	
Bromomethane	Not detected	5		ug/L	1	74-83-9	
Chloroethane	Not detected	5		ug/L	1	75-00-3	
Trichlorofluoromethane	Not detected	1		ug/L	1	75-69-4	



Analytical Laboratory Report

Lab Sample ID: S68369.06 (continued)

Sample Tag: GW-1

Volatile Organics - DEQ List, Method: SW5030C/8260C, Run Date: 11/11/24 16:33, Analyst: NDK (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
1,1-Dichloroethene	Not detected	1		ug/L	1	75-35-4	
Methylene chloride	Not detected	5		ug/L	1	75-09-2	
trans-1,2-Dichloroethene	Not detected	1		ug/L	1	156-60-5	
1,1-Dichloroethane	Not detected	1		ug/L	1	75-34-3	
cis-1,2-Dichloroethene	Not detected	1		ug/L	1	156-59-2	
Tetrahydrofuran	Not detected	90		ug/L	1	109-99-9	
Chloroform	Not detected	1		ug/L	1	67-66-3	
Bromochloromethane	Not detected	1		ug/L	1	74-97-5	
1,1,1-Trichloroethane	Not detected	1		ug/L	1	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	50		ug/L	1	108-10-1	
2-Hexanone	Not detected	50		ug/L	1	591-78-6	
Carbon tetrachloride	Not detected	1		ug/L	1	56-23-5	
Benzene	Not detected	1		ug/L	1	71-43-2	
1,2-Dichloroethane	Not detected	1		ug/L	1	107-06-2	
Trichloroethene	Not detected	1		ug/L	1	79-01-6	
1,2-Dichloropropane	Not detected	1		ug/L	1	78-87-5	
Bromodichloromethane	Not detected	1		ug/L	1	75-27-4	
Dibromomethane	Not detected	5		ug/L	1	74-95-3	
cis-1,3-Dichloropropene	Not detected	1		ug/L	1	10061-01-5	
Toluene	Not detected	1		ug/L	1	108-88-3	
trans-1,3-Dichloropropene	Not detected	1		ug/L	1	10061-02-6	
1,1,2-Trichloroethane	Not detected	1		ug/L	1	79-00-5	
Tetrachloroethene	Not detected	1		ug/L	1	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	1		ug/L	1	110-57-6	
Dibromochloromethane	Not detected	5		ug/L	1	124-48-1	
1,2-Dibromoethane	Not detected	1		ug/L	1	106-93-4	
Chlorobenzene	Not detected	1		ug/L	1	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	1		ug/L	1	630-20-6	
Ethylbenzene	Not detected	1		ug/L	1	100-41-4	
p,m-Xylene	Not detected	2		ug/L	1		
o-Xylene	Not detected	1		ug/L	1	95-47-6	
Styrene	Not detected	1		ug/L	1	100-42-5	
Isopropylbenzene	Not detected	5		ug/L	1	98-82-8	
Bromoform	Not detected	1		ug/L	1	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	1		ug/L	1	79-34-5	
1,2,3-Trichloropropane	Not detected	1		ug/L	1	96-18-4	
n-Propylbenzene	Not detected	1		ug/L	1	103-65-1	
Bromobenzene	Not detected	1		ug/L	1	108-86-1	
1,3,5-Trimethylbenzene	Not detected	1		ug/L	1	108-67-8	
tert-Butylbenzene	Not detected	1		ug/L	1	98-06-6	
1,2,4-Trimethylbenzene	Not detected	1		ug/L	1	95-63-6	
sec-Butylbenzene	Not detected	1		ug/L	1	135-98-8	
p-Isopropyltoluene	Not detected	5		ug/L	1	99-87-6	
1,3-Dichlorobenzene	Not detected	1		ug/L	1	541-73-1	
1,4-Dichlorobenzene	Not detected	1		ug/L	1	106-46-7	
1,2-Dichlorobenzene	Not detected	1		ug/L	1	95-50-1	
1,2,3-Trimethylbenzene	Not detected	1		ug/L	1	526-73-8	
n-Butylbenzene	Not detected	1		ug/L	1	104-51-8	
Hexachloroethane	Not detected	5		ug/L	1	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	5		ug/L	1	96-12-8	



Analytical Laboratory Report

Lab Sample ID: S68369.06 (continued)
Sample Tag: GW-1

Volatile Organics - DEQ List, Method: SW5030C/8260C, Run Date: 11/11/24 16:33, Analyst: NDK (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
1,2,4-Trichlorobenzene	Not detected	5		ug/L	1	120-82-1	
1,2,3-Trichlorobenzene	Not detected	5		ug/L	1	87-61-6	
Naphthalene	Not detected	5		ug/L	1	91-20-3	
2-Methylnaphthalene	Not detected	5		ug/L	1	91-57-6	

Merit Laboratories Login Checklist

Lab Set ID:S68369

Client:TRITERRA (TriTerra)

Project: 24-3918 Lentz

Submitted: 11/08/2024 14:20 Login User: MMC

Attention: JP Buckingham

Address: TriTerra

1375 S. Washington Avenue, Suite 100
Lansing, MI 48910

Phone: 517-853-2151

FAX:

Email:jp.buckingham@triterra.us

Selection	Description	Note
Sample Receiving		
01.	☒ Yes ☐ No ☐ N/A	Samples are received at 4C +/- 2C Thermometer # IR 4.9
02.	☒ Yes ☐ No ☐ N/A	Received on ice/ cooling process begun
03.	☐ Yes ☒ No ☐ N/A	Samples shipped
04.	☐ Yes ☒ No ☐ N/A	Samples left in 24 hr. drop box
05.	☐ Yes ☐ No ☒ N/A	Are there custody seals/tape or is the drop box locked
Chain of Custody		
06.	☒ Yes ☐ No ☐ N/A	COC adequately filled out
07.	☒ Yes ☐ No ☐ N/A	COC signed and relinquished to the lab
08.	☒ Yes ☐ No ☐ N/A	Sample tag on bottles match COC
09.	☐ Yes ☒ No ☐ N/A	Subcontracting needed? Subcontacted to:
Preservation		
10.	☒ Yes ☐ No ☐ N/A	Do sample have correct chemical preservation
11.	☐ Yes ☐ No ☒ N/A	Completed pH checks on preserved samples? (no VOAs)
12.	☐ Yes ☒ No ☐ N/A	Did any samples need to be preserved in the lab?
Bottle Conditions		
13.	☒ Yes ☐ No ☐ N/A	All bottles intact
14.	☒ Yes ☐ No ☐ N/A	Appropriate analytical bottles are used
15.	☒ Yes ☐ No ☐ N/A	Merit bottles used
16.	☒ Yes ☐ No ☐ N/A	Sufficient sample volume received
17.	☐ Yes ☒ No ☐ N/A	Samples require laboratory filtration
18.	☒ Yes ☐ No ☐ N/A	Samples submitted within holding time
19.	☐ Yes ☒ No ☐ N/A	Do water VOC, TOX, DO or Alkalinity bottles contain

Corrective action for all exceptions is to call the client and to notify the project manager.

Client Review By: _____ Date: _____

ATTACHMENT 4
PROFESSIONAL QUALIFICATIONS



ALEXSIS BOWEN

ENVIRONMENTAL SCIENTIST



Alexis Bowen is an Environmental Scientist with Triterra. Her work focuses on Environmental Due Diligence Services. Alexis also supports the Remediation Group and Natural Resources Group. Alexis conducts Phase I Environmental Site Assessments (ESAs) and helps clients understand environmental risk associated properties. She conducts field assignments, data analysis, and technical report preparation. Alexis understands regulatory requirements and considerations necessary for environmental due diligence projects.

AREAS OF EXPERTISE

- ▣ ASTM International Phase I ESAs, and Environmental Transaction Screens
- ▣ ASTM International Vapor Encroachment Screening
- ▣ BEAs and Due Care Evaluations
- ▣ Borehole Logging and Soil Classification
- ▣ Soil, Groundwater, Soil Gas, and Indoor Air sampling
- ▣ NEPA Part 50 & Part 58 Environmental Assessments

NOTABLE PROJECT EXPERIENCE

- ▣ Records Search with Risk Assessments
- ▣ Conducted Numerous Phase I ESAs, Subsurface Assessments, and BEAs for Residential and Commercial Sites, Including Auto Repair and Body Shop Sites
- ▣ MSHDA pre-approved Group A & B Consultant

EDUCATION

- ▣ BS Earth Science – 2020
Tennessee Technological University – Cookeville, TN

CERTIFICATIONS

- ▣ Hazardous Waste Operations & Emergency Response (HAZWOPER) Training

CREATING HEALTHIER COMMUNITIES

517.853.5712 | alexsis.bowen@triterra.us | Lansing, MI





J.P. BUCKINGHAM, CPG

COO | INTEGRATOR

TRITERRA

J.P. Buckingham is a partner at Triterra and serves as the Integrator and Principal Geologist. His responsibilities include overseeing work completed in the service group while managing and assisting staff with Phase I/II Environmental Site Assessments (ESAs), Environmental Transaction Screens (ETS), Baseline Environmental Assessments (BEAs), Due Care Evaluations/Plans, State and Local Brownfield Tax Increment Finance (TIF) Plans, Site Assessment and Brownfield Redevelopment Grant/Loan Applications, and building inspections associated with property transactions.

AREAS OF EXPERTISE

- ▣ ASTM Phase I and II Environmental Site Assessments (ESAs)
- ▣ Baseline Environmental Assessments (BEAs) and Due Care Plans
- ▣ Evaluating Soil and Groundwater Data for Due Care Obligations
- ▣ Brownfield Redevelopment Planning and Implementation
- ▣ Brownfield Tax Increment Financing Work Plans and Incentive Evaluations
- ▣ Brownfield Grant and Loan Application Preparation
- ▣ Hazardous Materials Assessments (Asbestos, Mold, and Lead)
- ▣ NEPA Part 50 & Part 58 Environmental Assessments

EDUCATION

- ▣ BS in Geology - 1999
Hope College, Holland, Michigan

NOTABLE PROJECT EXPERIENCE

- ▣ 25 years of experience in the manufacturing industry and environmental consulting
- ▣ Over 20 years working directly with property owners, banks, developers, construction companies, real estate agents, and communities dealing with the challenges associated with acquiring and developing property
- ▣ Conducted numerous Phase I ESAs, subsurface assessments, BEAs, and Due Care Plans for residential, commercial, and industrial sites
- ▣ MSHDA pre-approved Group A & B Consultant

CERTIFICATIONS

- ▣ Certified Professional Geologist –Michigan (#11556)
- ▣ Hazardous Waste Operations & Emergency Response (HAZWOPER) Training

CREATING HEALTHIER COMMUNITIES

517.853.2151 | jp.buckingham@tritererra.us | Lansing, MI

