RAVI ENGINEERING & LAND SURVEYING, P.C.

September 10, 2024

Elizabeth Colvin
Wendel WD Architecture, Engineering, Surveying & Landscape Architecture, P.C.
237 Main Street, Suite 500
Buffalo, NY 14203

Re: Limited Phase II Environmental Site Assessment Report
631 Northland Avenue
Buffalo, New York

Dear Ms. Colvin:

Ravi Engineering & Land Surveying, P .C. (RE&LS) conducted additional surficial soil sampling to supplement our Limited Phase II Environmental Site Assessment (ESA) of 631 Northland Avenue, Erie County, Buffalo, New York (the "Site") (Figure 1). This report has been prepared to summarize field activities and observations, and analytical data of soil samples.

BACKGROUND

The subject site is an approximately 2.63-acre parcel on the south side of Northland Avenue in the City of Buffalo, New York (the "Site"). It was reportedly developed in 1953 in association with the Niagara Machine & Tool metal fabricating plant historically located on the eastern adjacent property at 683 Northland Avenue. It operated as a metal fabricating plant under the name Clearing Niagara, and has been vacant since operations ceased in 1992.

RE&LS performed a Phase I ESA in February 2024, and identified the use of the Site and adjacent properties for manufacturing of machinery and sheet metal, household and automotive polish, liquid and cement, electric control panels, and printed circuit boards as a Recognized Environmental Conditions (RECs). Additional investigation was recommended to determine if existing conditions at the Site meet the criteria necessary to enter into the New York State Department of Environmental Conservation (NYSDEC) Brownfield Cleanup Program.

Prior to conducting the Limited Phase II ESA, RE&LS reviewed a 2015 Phase II ESA report prepared by Fisher Associates. Fisher's Phase II was conducted at 631, 683, 741, and 777 Northland Avenue. Soil borings were installed within the subject building and around the eastern and western perimeter of the building as well as on the referenced adjacent properties. One soil sample exhibited exceedances of Benzo(a)pyrene and arsenic above the Industrial Use Soil Cleanup Objective (SCO) at the southeastern portion of the Site. No groundwater samples were collected at the Site.

The results of our Limited Phase II ESA determined that metals detected in three of the four soil samples were at concentrations below 6 NYCRR Part 375 Unrestricted Use SCO. With the exception of arsenic, all concentrations were below the Commercial Use SCO. The arsenic concentration exceeds all Part 375 Restricted Use SCOs.

Two petroleum-related VOCs (m,p-Xylene and methylcyclohexane) were detected in one soil sample, and one solvent-related VOC (trichloroethene) was detected in one soil sample. None of the detections exceed Unrestricted Use SCOs. One SVOC was detected in one soil sample. The concentration is above the Unrestricted Use SCO, but is below the Commercial Use SCO.

PCB-1254 was detected in two soil samples near the southeastern corner of the building above. The concentrations are above the Unrestricted Use SCO, but below the Commercial Use SCO.

Three bedrock wells were installed in April 2024. Groundwater was sampled and analyzed for TCL and CP51 VOCs and CP51 SVOCs. There were no analytes detected in any of the groundwater samples.

METHODOLOGY

Surficial Soil Sampling

RE&LS conducted a surficial soil investigation on August 20, 2024. Fourteen surficial soil samples (SS-1 through SS-14) were collected around the western exterior of the building and southern property boundary (Figure 1). Asphalt, where present, was first cut to expose the soils beneath. A four inch diameter hand auger was then used to bore down to a depth of between six to thirteen inches below ground surface (bgs) for sample collection. Soil samples were screened for volatile organic compounds (VOCs) with a photoionization detector (PID) for evidence of petroleum impacts.

One proposed fifteenth soil sample was attempted to be collected beneath a steel girder in the pit of the interior furnace. A nearly impenetrable layer of steel and cast iron was encountered at the bottom of the furnace pit, and the sample location was abandoned after multiple attempts were made to create an opening within which to expose the soils for sample collection.

Fourteen (14) soil samples were submitted and analyzed by Paradigm Environmental Services, Inc. (Paradigm) for New York State Department of Environmental Conservation (NYSDEC) Target Compound List (TCL) semivolatile organic compounds (SVOCs) by Method 8270, Target Analyte List (TAL) metals by Methods 7471B and 6010C, and polychlorinated biphenyls (PCB) by Method 8082A. Paradigm's Laboratory Analytical reports are provided as Attachment A.

Based on the current zoning of the Site for light industrial use, soil analytical results were compared to 6 NYCRR Part 375 Restricted Use Soil Cleanup Objectives for Commercial and Industrial Use.

RESULTS

Soil Screening Results

Soil borings generally consist of crush and run gravel directly below the asphalt, with sandy loam grading to clay loam with depth. No evidence of impacts, ie odors, staining, or PID readings that would indicate petroleum contamination were noted.

SOIL Analytical Results

TAL Metals

Metals were detected in four of the fourteen soil samples at concentrations above 6 NYCRR Part 375 Commercial Use SCOs (Table 1).

- Seven of the fourteen samples reported concentrations of metals that exceed the Unrestricted Use SCOs.
- SS-1 has a concentration of manganese that exceeds the Industrial Use SCO.
- SS-7 has a concentration of arsenic that exceeds the Industrial Use SCO.
- SS-9 and SS-10 have concentrations of copper that exceed Commercial Use SCOs.

SVOCs

Several SVOCs were detected in multiple locations along the southern boundary of the property and in proximity to the exterior furnace.

- Benzo (a) anthracene was detected at concentrations above the Industrial Use SCOs in sample SS-3. Concentrations exceeded Commercials Use SCOs in sample SS-1 and SS-4.
- Benzo (a) pyrene was detected at concentrations above the Industrial Use SCOs in nine soil samples (SS-1, SS-2, SS-3, SS-4, SS-7, SS-9, SS-10, SS-11, and SS-14).
- Benzo (b) fluoranthene was detected at concentrations above the Industrial Use SCOs in sample SS-3. Concentrations exceeded Commercials Use SCOs in four soil samples (SS-1, SS-4, SS-7, and SS-10)
- Dibenz (a,h) anthracene was detected at concentrations above the Industrial Use SCOs in six soil samples (SS-1, SS-3, SS-4, SS-7, SS-9, and SS-10). Concentrations exceeded Commercials Use SCOs in sample SS-2.
- Indeno (1,2,3-cd) pyrene was detected at concentrations above the Industrial Use SCOs in soil samples SS-3. Concentrations exceeded Commercials Use SCOs in soil samples SS-1 and SS-9.

PCBs

PCB-1254 was detected in six soil samples (SS-1, SS-3, SS-4, SS-9, SS-10, and SS-12) and PCB-1248 was detected in two soil samples (SS-1 and SS-4). The concentrations are above the Unrestricted Use SCOs, but below the Commercial Use SCOs.

Paradigm's Laboratory Analytical Reports are included as Attachment A.

CONCLUSIONS AND RECOMMENDATION

Soil at the southern portion of the Site and in proximity to the exterior furnace are impacted with SVOCs and TAL metals above Industrial and Commercial Use SCOs.

Based on these and previous Phase II results, we recommend completing the NYSDEC Brownfield Cleanup Program (BCP) Pre-Application Worksheet and submitting it to the Region 9 Environmental Remediation Division of the NYSDEC to determine if environmental site conditions meet the criteria for inclusion in the BCP.

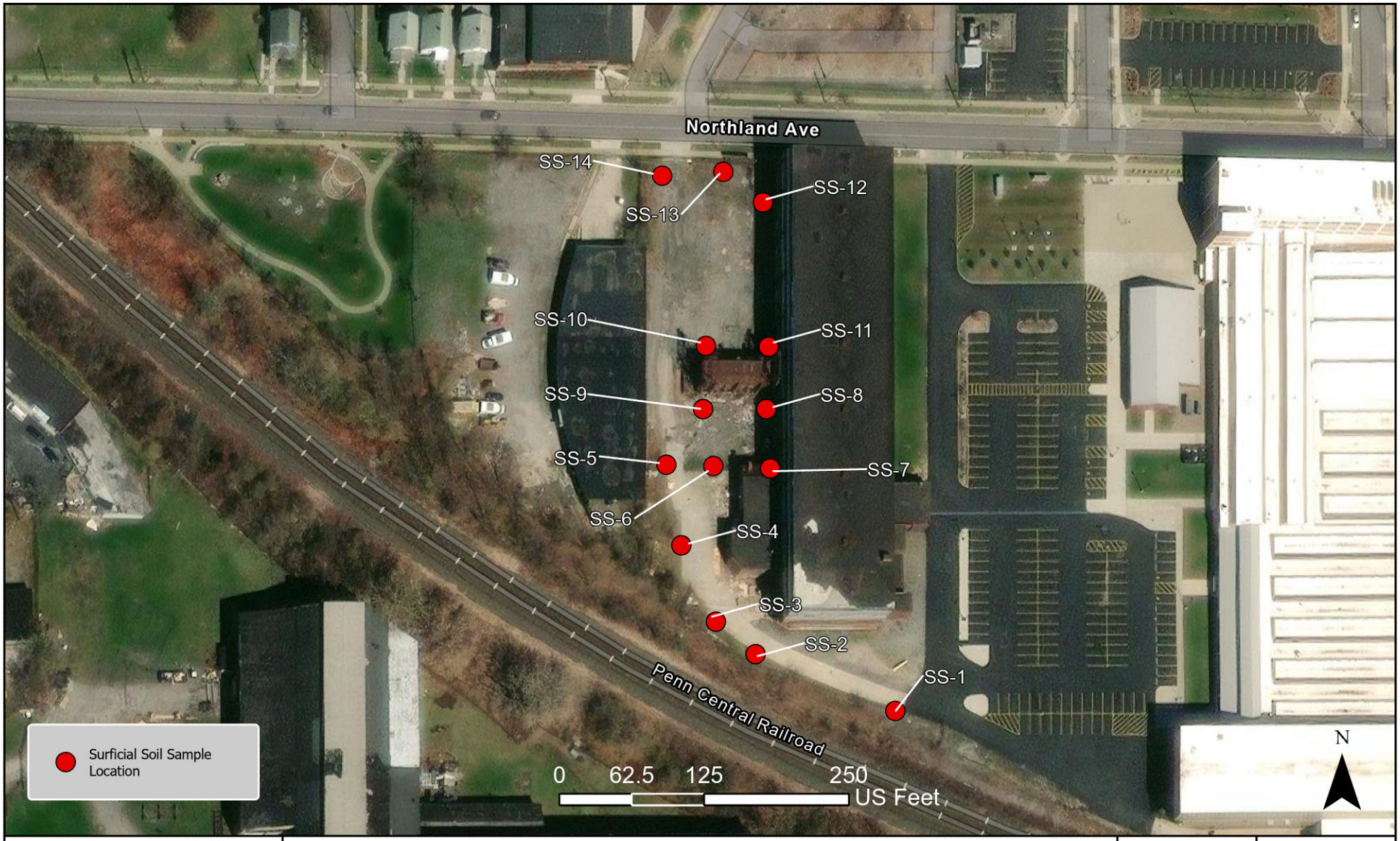
Sincerely,

Lynn Zicari

Environmental Project Manager

ATTACHMENTS

Figure 1	Site Location/Surficial Soil Sampling Locations Map
Figure 2	Surficial Soil Sample Results – Soil Cleanup Objective Exceedances (Metals)
Figure 3	Surficial Soil Sample Results – Soil Cleanup Objective Exceedances (SVOCs)
Table 1	Soil Analytical Results
Attachment A	Laboratory Analytical Report



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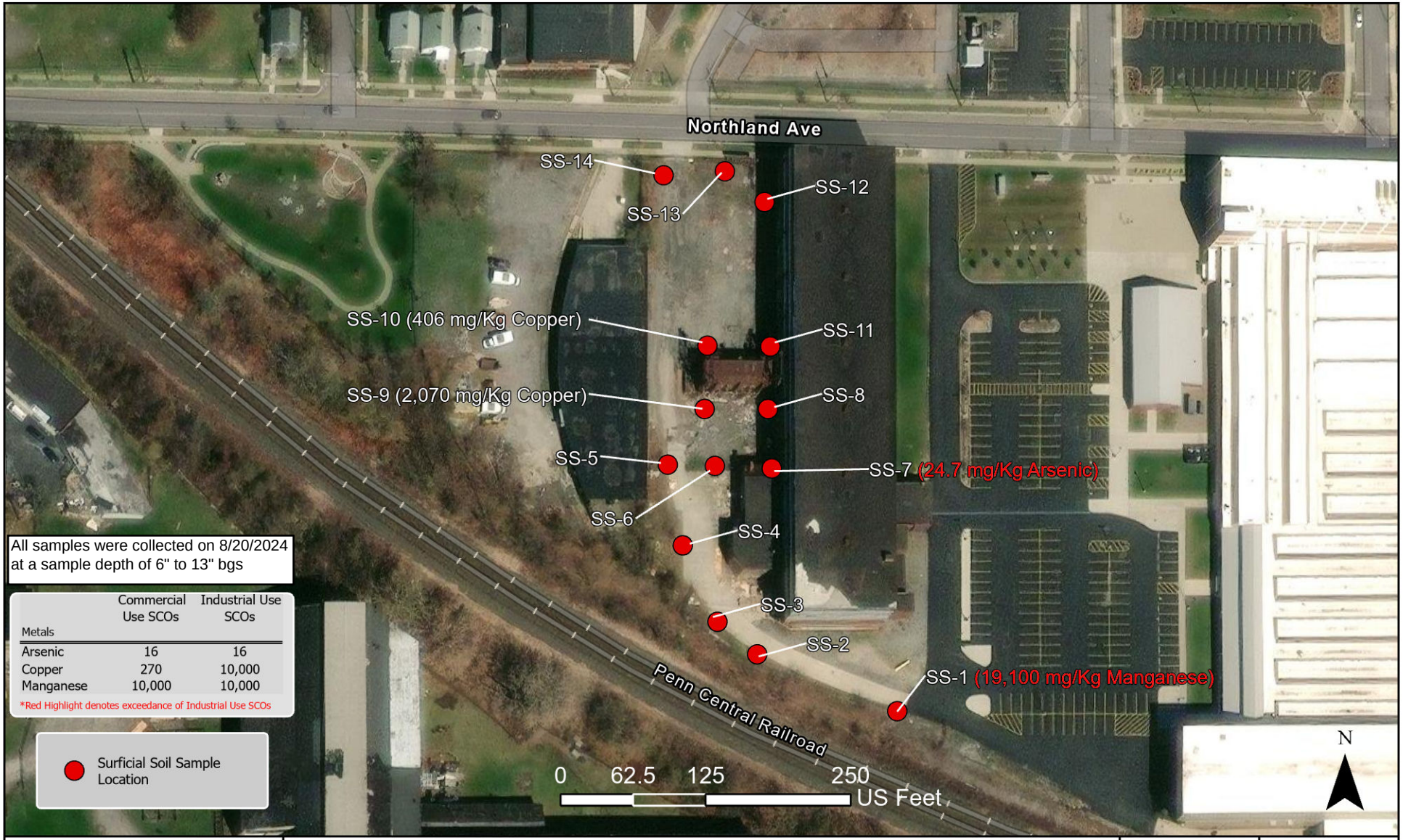
631 Northland Avenue
Buffalo, New York 14211

PROJECT NO.	DATE:
43-24-029	SEP. 2024

SITE LOCATION / SURFICIAL SOIL SAMPLING LOCATIONS

SCALE:	DRAWING NO:
N.T.S	1



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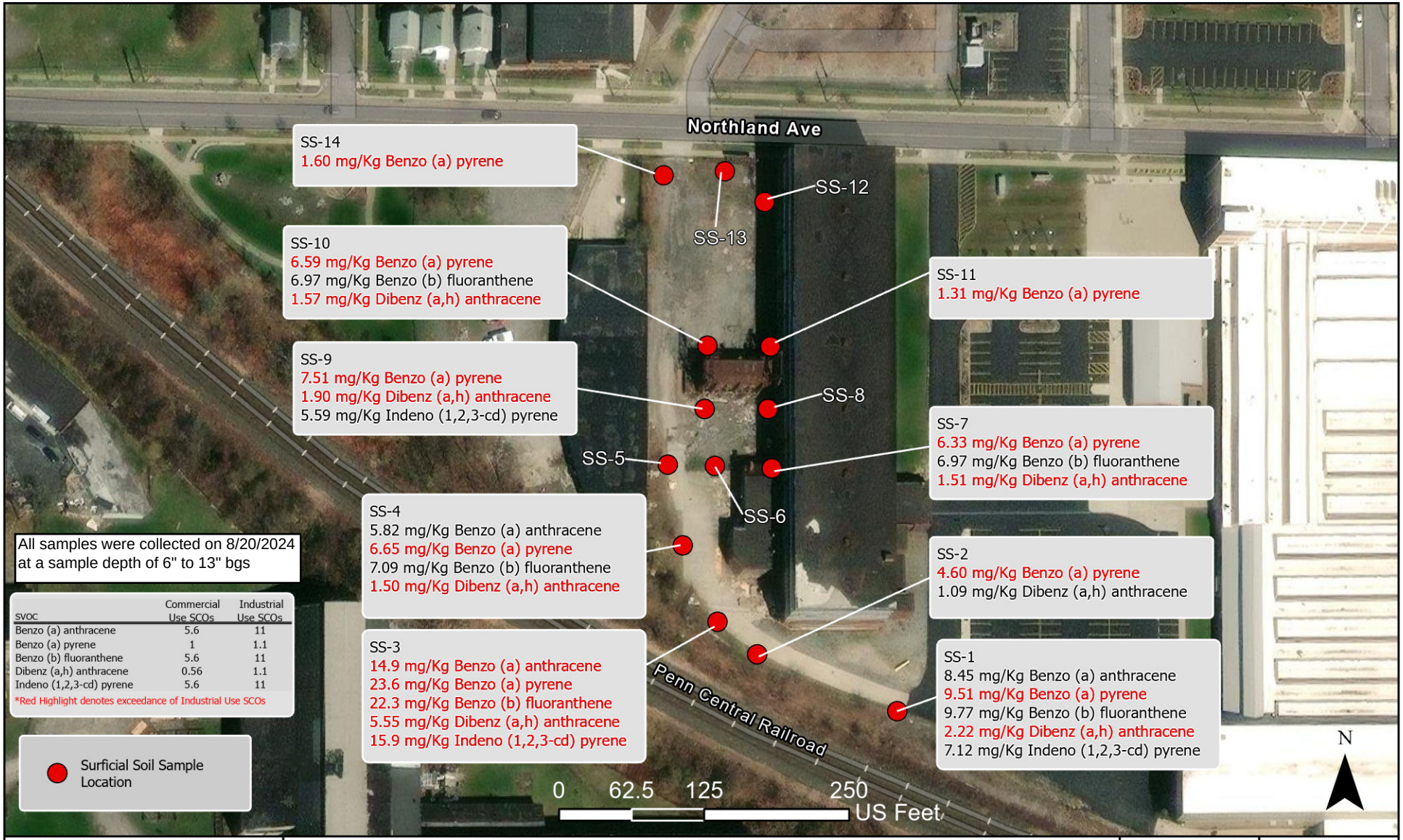
PROJECT NO. 43-24-029

DATE: SEP. 2024

SURFICIAL SOIL SAMPLE RESULTS
SOIL CLEANUP OBJECTIVE EXCEEDANCES - Metals

SCALE: N.T.S

DRAWING NO: 2



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SURFICIAL SOIL SAMPLE RESULTS
SOIL CLEANUP OBJECTIVE EXCEEDANCES - SVOCs

SCALE: N.T.S

DRAWING NO: 3

Table 1
Soil Analytical Results
631 Northland Avenue
Buffalo, New York

* All Surficial Soil samples were collected on 8/20/2024
at a sampling depth between 6" and 13" below ground surface (bgs)

Sample ID / Analyte	Unrestricted Use SCOs	Commercial Use SCOs	Industrial Use SCOs	SS-1	SS-2	SS-3	SS-4	SS-5	SS-6	SS-7	SS-8	SS-9	SS-10	SS-11	SS-12	SS-13	SS-14
SVOCs																	
1,1-Biphenyl				< 0.606	< 0.282	< 1.140	< 0.578	< 0.297	< 0.279	< 0.302	< 0.288	< 0.304	< 0.299	< 0.278	< 0.304	< 0.284	< 0.295
1,2,4,5-Tetrachlorobenzene				< 0.606	< 0.282	< 1.140	< 0.578	< 0.297	< 0.279	< 0.302	< 0.288	< 0.304	< 0.299	< 0.278	< 0.304	< 0.284	< 0.295
1,2,4-Trichlorobenzene				< 0.606	< 0.282	< 1.140	< 0.578	< 0.297	< 0.279	< 0.302	< 0.288	< 0.304	< 0.299	< 0.278	< 0.304	< 0.284	< 0.295
1,2-Dichlorobenzene	1.1	500		< 0.606	< 0.282	< 1.140	< 0.578	< 0.297	< 0.279	< 0.302	< 0.288	< 0.304	< 0.299	< 0.278	< 0.304	< 0.284	< 0.295
1,3-Dichlorobenzene	2.4	280		< 0.606	< 0.282	< 1.140	< 0.578	< 0.297	< 0.279	< 0.302	< 0.288	< 0.304	< 0.299	< 0.278	< 0.304	< 0.284	< 0.295
1,4-Dichlorobenzene	1.8	130		< 0.606	< 0.282	< 1.140	< 0.578	< 0.297	< 0.279	< 0.302	< 0.288	< 0.304	< 0.299	< 0.278	< 0.304	< 0.284	< 0.295
2,2-Oxybis (1-chloropropane)				< 0.606	< 0.282	< 1.140	< 0.578	< 0.297	< 0.279	< 0.302	< 0.288	< 0.304	< 0.299	< 0.278	< 0.304	< 0.284	< 0.295
2,3,4,6-Tetrachlorophenol				< 0.606	< 0.282	< 1.140	< 0.578	< 0.297	< 0.279	< 0.302	< 0.288	< 0.304	< 0.299	< 0.278	< 0.304	< 0.284	< 0.295
2,4,5-Trichlorophenol				< 0.606	< 0.282	< 1.140	< 0.578	< 0.297	< 0.279	< 0.302	< 0.288	< 0.304	< 0.299	< 0.278	< 0.304	< 0.284	< 0.295
2,4,6-Trichlorophenol				< 0.606	< 0.282	< 1.140	< 0.578	< 0.297	< 0.279	< 0.302	< 0.288	< 0.304	< 0.299	< 0.278	< 0.304	< 0.284	< 0.295
2,4-Dichlorophenol				< 0.606	< 0.282	< 1.140	< 0.578	< 0.297	< 0.279	< 0.302	< 0.288	< 0.304	< 0.299	< 0.278	< 0.304	< 0.284	< 0.295
2,4-Dimethylphenol				< 0.606	< 0.282	< 1.140	< 0.578	< 0.297	< 0.279	< 0.302	< 0.288	< 0.304	< 0.299	< 0.278	< 0.304	< 0.284	< 0.295
2,4-Dinitrophenol				< 2.430	< 1.130	< 4.560	< 2.310	< 1.190	< 1.120	< 1.210	< 1.150	< 1.220	< 1.200	< 1.110	< 1.220	< 1.140	< 1.180
2,4-Dinitrotoluene				< 0.606	< 0.282	< 1.140	< 0.578	< 0.297	< 0.279	< 0.302	< 0.288	< 0.304	< 0.299	< 0.278	< 0.304	< 0.284	< 0.295
2,6-Dinitrotoluene				< 0.606	< 0.282	< 1.140	< 0.578	< 0.297	< 0.279	< 0.302	< 0.288	< 0.304	< 0.299	< 0.278	< 0.304	< 0.284	< 0.295
2-Chloronaphthalene				< 0.606	< 0.282	< 1.140	< 0.578	< 0.297	< 0.279	< 0.302	< 0.288	< 0.304	< 0.299	< 0.278	< 0.304	< 0.284	< 0.295
2-Chlorophenol				< 0.606	< 0.282	< 1.140	< 0.578	< 0.297	< 0.279	< 0.302	< 0.288	< 0.304	< 0.299	< 0.278	< 0.304	< 0.284	< 0.295
2-Methylnapthalene				< 0.606	0.342	< 1.140	< 0.578	< 0.297	< 0.279	< 0.302	< 0.288	0.333	0.393	< 0.278	< 0.304	< 0.284	< 0.295
2-Methylphenol				< 0.606	< 0.282	< 1.140	< 0.578	< 0.297	< 0.279	< 0.302	< 0.288	< 0.304	< 0.299	< 0.278	< 0.304	< 0.284	< 0.295
2-Nitroaniline				< 0.606	< 0.282	< 1.140	< 0.578	< 0.297	< 0.279	< 0.302	< 0.288	< 0.304	< 0.299	< 0.278	< 0.304	< 0.284	< 0.295
2-Nitrophenol				< 0.606	< 0.282	< 1.140	< 0.578	< 0.297	< 0.279	< 0.302	< 0.288	< 0.304	< 0.299	< 0.278	< 0.304	< 0.284	< 0.295
3&4-Methylphenol				< 0.606	< 0.282	< 1.140	< 0.578	< 0.297	< 0.279	< 0.302	< 0.288	< 0.304	< 0.299	< 0.278	< 0.304	< 0.284	< 0.295
3,3'-Dichlorobenzidine				< 0.606	< 0.282	< 1.140	< 0.578	< 0.297	< 0.279	< 0.302	< 0.288	< 0.304	< 0.299	< 0.278	< 0.304	< 0.284	< 0.295
3-Nitroaniline				< 0.606	< 0.282	< 1.140	< 0.578	< 0.297	< 0.279	< 0.302	< 0.288	< 0.304	< 0.299	< 0.278	< 0.304	< 0.284	< 0.295
4,6-Dinitro-2-methylphenol				< 1.210	< 0.563	< 2.280	< 1.160	< 0.594	< 0.559	< 0.604	< 0.576	< 0.609	< 0.599	< 0.556	< 0.609	< 0.569	< 0.590
4-Bromophenyl phenyl ether				< 0.606	< 0.282	< 1.140	< 0.578	< 0.297	< 0.279	< 0.302	< 0.288	< 0.304	< 0.299	< 0.278	< 0.304	< 0.284	< 0.295
4-Chloro-3-methylphenol				< 0.606	< 0.282	< 1.140	< 0.578	< 0.297	< 0.279	< 0.302	< 0.288	< 0.304	< 0.299	< 0.278	< 0.304	< 0.284	< 0.295
4-Chloroaniline				< 0.606	< 0.282	< 1.140	< 0.578	< 0.297	< 0.279	< 0.302	< 0.288	< 0.304	< 0.299	< 0.278	< 0.304	< 0.284	< 0.295
4-Chlorophenyl phenyl ether				< 0.606	< 0.282	< 1.140	< 0.578	< 0.297	< 0.279	< 0.302	< 0.288	< 0.304	< 0.299	< 0.278	< 0.304	< 0.284	< 0.295
4-Nitroaniline				< 0.606	< 0.282	< 1.140	< 0.578	< 0.297	< 0.279	< 0.302	< 0.288	< 0.304	< 0.299	< 0.278	< 0.304	< 0.284	< 0.295
4-Nitrophenol				< 0.606	< 0.282	< 1.140	< 0.578	< 0.297	< 0.279	< 0.302	< 0.288	< 0.304	< 0.299	< 0.278	< 0.304	< 0.284	< 0.295
Acenaphthene	20	500	1000	1.93	< 0.282	< 1.140	1.31	< 0.297	< 0.279	1.13	< 0.288	< 0.304	< 0.299	0.29	< 0.304	< 0.284	< 0.295
Acenaphthylene	100	500	1000	< 0.606	< 0.282	< 1.140	< 0.578	< 0.297	< 0.279	< 0.302	< 0.288	< 0.304	< 0.299	< 0.278	< 0.304	< 0.284	< 0.295
Acetophenone				< 0.606	< 0.282	< 1.140	< 0.578	< 0.297	< 0.279	< 0.302	< 0.288	< 0.304	< 0.299	< 0.278	< 0.304	< 0.284	< 0.295
Anthracene	100	500	1000	2.98	0.375	1.14	2.08	< 0.297	< 0.279	1.71	< 0.288	0.475	< 0.299	0.641	< 0.304	< 0.284	< 0.295
Atrazine				< 0.606	< 0.282	< 1.140	< 0.578	< 0.297	< 0.279	< 0.302	< 0.288	< 0.304	< 0.299	< 0.278	< 0.304	< 0.284	< 0.295
Benzaldehyde				< 0.606	< 0.282	< 1.140	< 0.578	< 0.297	< 0.279	< 0.302	< 0.288	< 0.304	< 0.299	< 0.278	< 0.304	< 0.284	< 0.295
Benzo (a) anthracene	1	5.6	11	**8.45**	**2.8**	**14.9**	**5.82**	0.447	0.532	**5.41**	< 0.288	**4.85**	**4.12**	**1.33**	0.447	< 0.284	0.592
Benzo (a) pyrene	1	1	1.1	**9.51**	**4.6**	**23.6**	**6.65**	0.741	0.815	**6.33**	< 0.288	**7.51**	**6.59**	**1.31**	0.717	< 0.284	**1.6**
Benzo (b) fluoranthene	1	5.6	11	**9.77**	**4.17**	**22.3**	**7.09**	0.739	0.722	**6.97**	< 0.288	**5.19**	**6.97**	**1.38**	0.597	< 0.284	0.997
Benzo (g,h,i) perylene	100	500	1000	6.21	3.31	16	4.47	0.508	0.552	3.98	< 0.288	4.75	4.52	0.836	0.484	< 0.284	0.754
Benzo (k) fluoranthene	0.8	56	110	**7.22**	**3.11**	**15.6**	**4.64**	0.426	0.528	**3.8**	< 0.288	< 0.304	3.65	0.987	0.553	< 0.284	0.697
Bis (2-chloroethoxy) methane				< 0.606	< 0.282	< 1.140	< 0.578	< 0.297	< 0.279	< 0.302	< 0.288	< 0.304	< 0.299	< 0.278	< 0.304	< 0.284	< 0.295
Bis (2-chloroethyl) ether				< 0.606	< 0.282	< 1.140	< 0.578	< 0.297	< 0.279	< 0.302	< 0.288	< 0.304	< 0.299	< 0.278	< 0.304	< 0.284	< 0.295
Bis (2-ethylhexyl) phthalate				< 0.606	< 0.282	< 1.140	< 0.578	< 0.297	< 0.279	< 0.302	< 0.288	< 0.304	< 0.299	< 0.278	< 0.304	< 0.284	< 0.295
Butylbenzylphthalate				< 0.606	< 0.282	< 1.140	< 0.578	< 0.297	< 0.279	< 0.302	< 0.288	< 0.304	< 0.299	< 0.278	< 0.304	< 0.284	< 0.295
Caprolactam				< 0.606	< 0.282	< 1.140	< 0.578	< 0.297	< 0.279	< 0.302	< 0.288	< 0.304	< 0.299	< 0.278	< 0.304	< 0.284	< 0.295
Carbazole				1.88	0.319	< 1.140	1.38	< 0.297	< 0.279	1.13	< 0.288	0.34	< 0.299	0.418	< 0.304	< 0.284	< 0.295
Chrysene	1	56	110	**9.97**	**3.98**	**19.4**	**6.64**	0.656	0.726	**6.52**	< 0.288	**6.17**	**5.36**	**1.52**	0.554	< 0.284	0.803
Dibenz (a,h) anthracene	0.33	0.56	1.1	**2.22**	**1.09**	**5.55**	**1.5**	< 0.297	< 0.279	**1.51**	< 0.288	**1.9**	**1.57**	0.307	< 0.304	< 0.284	< 0.295
Dibenzofuran		350		1.01	< 0.282	< 1.140	0.599	< 0.297	< 0.279	0.441	< 0.288	< 0.304	< 0.299	< 0.278	< 0.304	< 0.284	< 0.295
Diethyl phthalate				< 0.606	< 0.282	< 1.140	< 0.578	< 0.297	< 0.279	< 0.302	< 0.288	< 0.304	< 0.299	< 0.278	< 0.304	< 0.284	< 0.295
Dimethyl phthalate				< 0.606	< 0.282	< 1.140	< 0.578	< 0.297	< 0.279	< 0.302	< 0.288	< 0.304	< 0.299	< 0.278	< 0.304	< 0.284	< 0.295
Di-n-butyl phthalate				< 0.606	< 0.282	< 1.140	< 0.578	< 0.297	< 0.279	< 0.302	< 0.288	< 0.304	< 0.299	< 0.278	< 0.304	< 0.284	< 0.295
Di-n-octylphthalate				< 0.606	< 0.282	< 1.140	< 0.578	< 0.297	< 0.279	< 0.302	< 0.288	< 0.304	< 0.299	< 0.278	< 0.304	< 0.284	< 0.295
Fluoranthene	100	500	1000	22.1	4.36	17.9	12.7	0.534	0.583	12	< 0.288	6.54	4.75	3.27	0.58	< 0.284	0.713
Fluorene	30	500	1000	1.89	< 0.282	< 1.140	0.953	< 0.297	< 0.279	0.919	< 0.288	< 0.304	< 0.299	0.339	< 0.304	< 0.284	< 0.295
Hexachlorobenzene				< 0.606	< 0.282	< 1.140	< 0.578	< 0.297	< 0.279	< 0.302	< 0.288	< 0.304	< 0.299	< 0.278	< 0.304	< 0.284	< 0.295
Hexachlorobutadiene				< 0.606	< 0.282	< 1.140	< 0.578	< 0.297	< 0.279	< 0.302	< 0.288	< 0.304	< 0.299	< 0.278	< 0.304	< 0.284	< 0.295
Hexachlorocyclopentadiene				< 2.430	< 1.130	< 4.560	< 2.310	< 1.190	< 1.120	< 1.210	< 1.150	< 1.220	< 1.200	< 1.110	< 1.220	< 1.140	< 1.180
Hexachloroethane				< 0.606	< 0.282	< 1.140	< 0.578	< 0.297	< 0.279	< 0.302	< 0.288	< 0.304	< 0.299	< 0.278	< 0.304	< 0.284	< 0.295

Table 1
Soil Analytical Results
631 Northland Avenue
Buffalo, New York

* All Surficial Soil samples were collected on 8/20/2024
at a sampling depth between 6" and 13" below ground surface (bgs)

Sample ID / Analyte	Unrestricted Use SCOs	Commercial Use SCOs	Industrial Use SCOs	SS-1	SS-2	SS-3	SS-4	SS-5	SS-6	SS-7	SS-8	SS-9	SS-10	SS-11	SS-12	SS-13	SS-14
SVOCs																	
Indeno (1,2,3-cd) pyrene	0.5	5.6	11	**7.12**	**3.36**	**15.9**	**4.95**	**0.506**	**0.574**	**4.43**	< 0.288	**5.59**	**4.75**	**0.964**	0.504	< 0.284	0.767
Isophorone				< 0.606	< 0.282	< 1.140	< 0.578	< 0.297	< 0.279	< 0.302	< 0.288	< 0.304	< 0.299	< 0.278	< 0.304	< 0.284	< 0.295
Naphthalene	12	500	1000	< 0.606	< 0.282	< 1.140	0.655	< 0.297	< 0.279	< 0.302	< 0.288	< 0.304	0.3	< 0.278	< 0.304	< 0.284	< 0.295
Nitrobenzene				< 0.606	< 0.282	< 1.140	< 0.578	< 0.297	< 0.279	< 0.302	< 0.288	< 0.304	< 0.299	< 0.278	< 0.304	< 0.284	< 0.295
N-Nitroso-di-n-propylamine				< 0.606	< 0.282	< 1.140	< 0.578	< 0.297	< 0.279	< 0.302	< 0.288	< 0.304	< 0.299	< 0.278	< 0.304	< 0.284	< 0.295
N-Nitrosodiphenylamine				< 0.606	< 0.282	< 1.140	< 0.578	< 0.297	< 0.279	< 0.302	< 0.288	< 0.304	< 0.299	< 0.278	< 0.304	< 0.284	< 0.295
Pentachlorophenol	0.8	6.7	55	< 1.210	< 0.563	< 2.280	< 1.160	< 0.594	< 0.559	< 0.604	< 0.576	< 0.609	< 0.599	< 0.556	< 0.609	< 0.569	< 0.590
Phenanthrene	100	500	1000	17.3	2.31	6.5	8.99	< 0.297	0.297	9.04	< 0.288	2.29	1.51	3.14	< 0.304	< 0.284	< 0.295
Phenol	0.33	500	1000	< 0.606	< 0.282	< 1.140	< 0.578	< 0.297	< 0.279	< 0.302	< 0.288	< 0.304	< 0.299	< 0.278	< 0.304	< 0.284	< 0.295
Pyrene	100	500	1000	18.3	4.93	20.8	11.1	0.661	0.775	10.6	< 0.288	6.97	5.55	2.72	0.606	< 0.284	0.779
Metals																	
Aluminum				5610	2240	2110	7320	2740	1410	3660	856	8320	3120	6480	5180	1740	4810
Antimony				14.4	< 2.94	< 3.22	< 3.35	< 3.20	< 5.71	< 3.10	< 3.03	< 3.18	< 3.38	< 3.18	< 3.19	< 2.91	< 3.01
Arsenic	13	16	16	6.38	3.25	5.81	9.07	7.67	3.09	**24.7**	2.74	7.3	8.24	4.71	6.32	2.37	8.62
Barium	350	400	10000	136	94.5	255	124	20.8	83.2	79.6	< 5.05	90.9	33.4	44.2	48.8	6.2	21
Beryllium	7.2	590	2700	< 0.759	< 0.245	< 0.268	0.575	< 0.267	< 0.476	< 0.258	< 0.253	0.752	< 0.282	< 0.265	0.421	< 0.243	< 0.251
Cadmium	2.5	9.3	60	4.18	0.82	1.75	**2.64**	0.475	< 0.476	**4.59**	< 0.253	0.795	0.895	0.466	0.335	< 0.243	0.281
Calcium				147000	228000	240000	179000	193000	256000	144000	147000	127000	181000	179000	169000	136000	207000
Chromium	30	1500	6800	**948**	**31**	**83.05**	**94.9**	11.8	9.84	**171**	3.83	24.9	21.6	9.8	9.48	5.42	9.81
Cobalt				9.74	3.75	4.55	6.32	2.73	< 4.76	11.6	< 2.53	3.38	< 2.82	4.05	< 2.66	< 2.43	< 2.51
Copper	50	270	10000	**132**	36.1	**94.9**	**196**	24.2	13.5	**237**	6.23	**2070**	**406**	16.8	16.3	7.2	10.4
Iron				85700	15100	41700	56000	9590	8670	123000	2670	19400	19300	10000	6170	2940	5200
Lead	63	1000	3900	187	43.4	**98.9**	**101**	24.1	7.07	42.2	2.78	33.6	33.4	45.4	34.7	8.32	12
Magnesium				17400	7790	7150	17800	9340	8510	7700	4030	11400	8090	10200	8340	3620	8450
Manganese	1600	10000	10000	**19100**	1100	1470	1380	147	270	**3070**	52.2	**1770**	533	268	651	91.5	96.8
Mercury	0.18	2.8	5.7	0.101	0.0262	0.118	0.0561	0.0135	0.0129	0.0506	< 0.00706	0.0188	0.0264	0.0683	0.0279	0.0206	0.0165
Nickel	30	310	10000	**44.7**	16.4	**33.2**	**64.2**	16.3	7.92	**109**	7.6	16.4	20.6	11.2	7.42	7.14	9.99
Potassium				597	970	584	895	1100	607	1080	547	927	677	1730	909	836	2540
Selenium	3.9	1500	6800	< 3.04	< 0.982	< 1.07	< 1.12	< 1.07	< 1.90	< 1.03	< 1.01	< 1.06	< 1.13	< 1.06	< 1.06	< 0.971	< 1.00
Silver	2	1500	6800	< 1.52	< 0.491	< 0.537	< 0.558	< 0.533	< 0.952	< 0.517	< 0.505	< 0.530	< 0.563	< 0.530	< 0.532	< 0.485	< 0.502
Sodium				849	396	427	568	250	270	592	204	365	328	240	270	189	265
Thallium				< 3.80	< 1.23	< 1.34	< 1.40	< 1.33	< 2.38	< 1.29	< 1.26	< 1.32	< 1.41	< 1.32	< 1.33	< 1.21	< 1.26
Vanadium				402	14.1	19.4	16.4	7.35	4.42	16.9	3.22	8.56	7.19	13.7	6.94	6.55	12.2
Zinc	109	10000	10000	**699**	84.2	**172**	**222**	55	24.1	**115**	14.4	54	69.7	100	37.8	35.5	34.7
PCBs																	
PCB-1016	0.1			< 0.137	< 0.145	<0.156	< 0.125	< 0.164	< 0.165	< 0.134	< 0.142	< 0.163	< 0.131	< 0.150	< 0.164	< 0.163	< 0.131
PCB-1221	0.1			< 0.137	< 0.145	<0.156	< 0.125	< 0.164	< 0.165	< 0.134	< 0.142	< 0.163	< 0.131	< 0.150	< 0.164	< 0.163	< 0.131
PCB-1232	0.1			< 0.137	< 0.145	<0.156	< 0.125	< 0.164	< 0.165	< 0.134	< 0.142	< 0.163	< 0.131	< 0.150	< 0.164	< 0.163	< 0.131
PCB-1242	0.1	1		< 0.137	< 0.145	<0.156	< 0.125	< 0.164	< 0.165	< 0.134	< 0.142	< 0.163	< 0.131	< 0.150	< 0.164	< 0.163	< 0.131
PCB-1248	0.1	1		**0.490**	< 0.145	<0.156	**0.172**	< 0.164	< 0.165	< 0.134	< 0.142	< 0.163	< 0.131	< 0.150	< 0.164	< 0.163	< 0.131
PCB-1254	0.1	1		**0.356**	< 0.145	**0.218**	**0.223**	< 0.164	< 0.165	< 0.134	< 0.142	**0.449**	**0.179**	< 0.150	**0.186**	< 0.163	< 0.131
PCB-1260	0.1	1		< 0.137	< 0.145	<0.156	< 0.125	< 0.164	< 0.165	< 0.134	< 0.142	< 0.163	< 0.131	< 0.150	< 0.164	< 0.163	< 0.131
PCB-1262	0.1	1		< 0.137	< 0.145	<0.156	< 0.125	< 0.164	< 0.165	< 0.134	< 0.142	< 0.163	< 0.131	< 0.150	< 0.164	< 0.163	< 0.131
PCB-1268	0.1	1		< 0.137	< 0.145	<0.156	< 0.125	< 0.164	< 0.165	< 0.134	< 0.142	< 0.163	< 0.131	< 0.150	< 0.164	< 0.163	< 0.131
	Unrestricted Use SCOs	Commercial Use SCOs	Industrial Use SCOs	SS-1	SS-2	SS-3	SS-4	SS-5	SS-6	SS-7	SS-8	SS-9	SS-10	SS-11	SS-12	SS-13	SS-14

LEGEND
Units are in mg/Kg
NS = No standard listed in NYSDEC Part 375 for the associated analyte
Bold font denotes analyte exceeds Unrestricted Use SCO
Highlighted cell denotes analyte exceeds Commercial Use SCO
Red font denotes analyte exceeds Industrial Use SCO

ATTACHMENT A

Laboratory Analytical Report

631 Northland Avenue
Buffalo, Erie County, New York
RE&LS PN 43-24-029

PARADIGM

Analytical Report For

Ravi Engineering & Land Surveying, P.C.

For Lab Project ID

243844

Referencing

631 Northland Ave

Prepared

Friday, August 30, 2024

Any noncompliant QC parameters or other notes impacting data interpretation are flagged or documented on the final report or are noted below.

Emily Yaimen

Certifies that this report has been approved by the Technical Director or Designee

179 Lake Avenue • Rochester, NY 14608 • (585) 647-2530 • Fax (585) 647-3311 • ELAP ID# 10958

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 243844

Client: **Ravi Engineering & Land Surveying, P.C.**

Project Reference: 631 Northland Ave

Sample Identifier:	SS-1		
Lab Sample ID:	243844-01	**Date Sampled:**	8/20/2024 11:00
Matrix:	Soil	**Date Received**	8/21/2024

Mercury

Analyte	Result	Units	Qualifier	Date Analyzed
Mercury	**0.101**	mg/Kg		8/26/2024 15:47

Method Reference(s): EPA 7471B
Preparation Date: 8/26/2024
Data File: Hg240826B

TAL Metals (ICP)

Analyte	Result	Units	Qualifier	Date Analyzed
Aluminum	**5610**	mg/Kg		8/23/2024 16:29
Antimony	**14.4**	mg/Kg		8/23/2024 16:29
Arsenic	**6.38**	mg/Kg		8/23/2024 16:29
Barium	**136**	mg/Kg		8/23/2024 16:29
Beryllium	< 0.759	mg/Kg		8/23/2024 16:29
Cadmium	**4.18**	mg/Kg		8/23/2024 16:29
Calcium	**147000**	mg/Kg		8/23/2024 16:44
Chromium	**948**	mg/Kg		8/23/2024 16:29
Cobalt	**9.74**	mg/Kg		8/23/2024 16:29
Copper	**132**	mg/Kg		8/23/2024 16:29
Iron	**85700**	mg/Kg		8/23/2024 16:44
Lead	**187**	mg/Kg		8/23/2024 16:29
Magnesium	**17400**	mg/Kg		8/23/2024 16:29
Manganese	**19100**	mg/Kg		8/23/2024 16:44
Nickel	**44.7**	mg/Kg		8/23/2024 16:29
Potassium	**597**	mg/Kg		8/23/2024 16:29
Selenium	< 3.04	mg/Kg		8/23/2024 16:29
Silver	< 1.52	mg/Kg		8/23/2024 16:29
Sodium	**849**	mg/Kg		8/23/2024 16:29
Thallium	< 3.80	mg/Kg		8/23/2024 16:29
Vanadium	**402**	mg/Kg		8/23/2024 16:29

Sample Identifier: SS-1
Lab Sample ID: 243844-01 **Date Sampled:** 8/20/2024 11:00
Matrix: Soil **Date Received** 8/21/2024

Zinc	**699**	mg/Kg		8/23/2024 16:29

Method Reference(s): EPA 6010C
EPA 3050B
Preparation Date: 8/22/2024
Data File: 240823A

PCBs

Analyte	Result	Units	Qualifier	Date Analyzed
PCB-1016	< 0.137	mg/Kg		8/23/2024 18:05
PCB-1221	< 0.137	mg/Kg		8/23/2024 18:05
PCB-1232	< 0.137	mg/Kg		8/23/2024 18:05
PCB-1242	< 0.137	mg/Kg		8/23/2024 18:05
PCB-1248	**0.490**	mg/Kg		8/23/2024 18:05
PCB-1254	**0.356**	mg/Kg		8/23/2024 18:05
PCB-1260	< 0.137	mg/Kg		8/23/2024 18:05
PCB-1262	< 0.137	mg/Kg		8/23/2024 18:05
PCB-1268	< 0.137	mg/Kg		8/23/2024 18:05

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
Tetrachloro-m-xylene	**74.3**	16.1 - 102		8/23/2024 18:05

Method Reference(s): EPA 8082A
EPA 3546
Preparation Date: 8/22/2024

Semi-Volatile Organics (Acid/Base Neutrals)

Analyte	Result	Units	Qualifier	Date Analyzed
1,1-Biphenyl	< 606	ug/Kg		8/27/2024 18:22
1,2,4,5-Tetrachlorobenzene	< 606	ug/Kg		8/27/2024 18:22
1,2,4-Trichlorobenzene	< 606	ug/Kg		8/27/2024 18:22
1,2-Dichlorobenzene	< 606	ug/Kg		8/27/2024 18:22
1,3-Dichlorobenzene	< 606	ug/Kg		8/27/2024 18:22
1,4-Dichlorobenzene	< 606	ug/Kg		8/27/2024 18:22
2,2-Oxybis (1-chloropropane)	< 606	ug/Kg		8/27/2024 18:22
2,3,4,6-Tetrachlorophenol	< 606	ug/Kg		8/27/2024 18:22

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 243844

Client: **Ravi Engineering & Land Surveying, P.C.**

Project Reference: 631 Northland Ave

Sample Identifier:	SS-1		
Lab Sample ID:	243844-01	**Date Sampled:**	8/20/2024 11:00
Matrix:	Soil	**Date Received**	8/21/2024

2,4,5-Trichlorophenol	< 606	ug/Kg	8/27/2024 18:22
2,4,6-Trichlorophenol	< 606	ug/Kg	8/27/2024 18:22
2,4-Dichlorophenol	< 606	ug/Kg	8/27/2024 18:22
2,4-Dimethylphenol	< 606	ug/Kg	8/27/2024 18:22
2,4-Dinitrophenol	< 2430	ug/Kg	8/27/2024 18:22
2,4-Dinitrotoluene	< 606	ug/Kg	8/27/2024 18:22
2,6-Dinitrotoluene	< 606	ug/Kg	8/27/2024 18:22
2-Chloronaphthalene	< 606	ug/Kg	8/27/2024 18:22
2-Chlorophenol	< 606	ug/Kg	8/27/2024 18:22
2-Methylnapthalene	< 606	ug/Kg	8/27/2024 18:22
2-Methylphenol	< 606	ug/Kg	8/27/2024 18:22
2-Nitroaniline	< 606	ug/Kg	8/27/2024 18:22
2-Nitrophenol	< 606	ug/Kg	8/27/2024 18:22
3&4-Methylphenol	< 606	ug/Kg	8/27/2024 18:22
3,3'-Dichlorobenzidine	< 606	ug/Kg	8/27/2024 18:22
3-Nitroaniline	< 606	ug/Kg	8/27/2024 18:22
4,6-Dinitro-2-methylphenol	< 1210	ug/Kg	8/27/2024 18:22
4-Bromophenyl phenyl ether	< 606	ug/Kg	8/27/2024 18:22
4-Chloro-3-methylphenol	< 606	ug/Kg	8/27/2024 18:22
4-Chloroaniline	< 606	ug/Kg	8/27/2024 18:22
4-Chlorophenyl phenyl ether	< 606	ug/Kg	8/27/2024 18:22
4-Nitroaniline	< 606	ug/Kg	8/27/2024 18:22
4-Nitrophenol	< 606	ug/Kg	8/27/2024 18:22
Acenaphthene	**1930**	ug/Kg	8/27/2024 18:22
Acenaphthylene	< 606	ug/Kg	8/27/2024 18:22
Acetophenone	< 606	ug/Kg	8/27/2024 18:22
Anthracene	**2980**	ug/Kg	8/27/2024 18:22
Atrazine	< 606	ug/Kg	8/27/2024 18:22
Benzaldehyde	< 606	ug/Kg	8/27/2024 18:22
Benzo (a) anthracene	**8450**	ug/Kg	8/27/2024 18:22

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 243844

Client: **Ravi Engineering & Land Surveying, P.C.**

Project Reference: 631 Northland Ave

Sample Identifier:	SS-1		
Lab Sample ID:	243844-01	**Date Sampled:** 8/20/2024	11:00
Matrix:	Soil	**Date Received** 8/21/2024	

Benzo (a) pyrene	**9510**	ug/Kg	8/27/2024	18:22
Benzo (b) fluoranthene	**9770**	ug/Kg	8/27/2024	18:22
Benzo (g,h,i) perylene	**6210**	ug/Kg	8/27/2024	18:22
Benzo (k) fluoranthene	**7220**	ug/Kg	8/27/2024	18:22
Bis (2-chloroethoxy) methane	< 606	ug/Kg	8/27/2024	18:22
Bis (2-chloroethyl) ether	< 606	ug/Kg	8/27/2024	18:22
Bis (2-ethylhexyl) phthalate	< 606	ug/Kg	8/27/2024	18:22
Butylbenzylphthalate	< 606	ug/Kg	8/27/2024	18:22
Caprolactam	< 606	ug/Kg	8/27/2024	18:22
Carbazole	**1880**	ug/Kg	8/27/2024	18:22
Chrysene	**9970**	ug/Kg	8/27/2024	18:22
Dibenz (a,h) anthracene	**2220**	ug/Kg	8/27/2024	18:22
Dibenzofuran	**1010**	ug/Kg	8/27/2024	18:22
Diethyl phthalate	< 606	ug/Kg	8/27/2024	18:22
Dimethyl phthalate	< 606	ug/Kg	8/27/2024	18:22
Di-n-butyl phthalate	< 606	ug/Kg	8/27/2024	18:22
Di-n-octylphthalate	< 606	ug/Kg	8/27/2024	18:22
Fluoranthene	**22100**	ug/Kg	8/27/2024	18:22
Fluorene	**1890**	ug/Kg	8/27/2024	18:22
Hexachlorobenzene	< 606	ug/Kg	8/27/2024	18:22
Hexachlorobutadiene	< 606	ug/Kg	8/27/2024	18:22
Hexachlorocyclopentadiene	< 2430	ug/Kg	8/27/2024	18:22
Hexachloroethane	< 606	ug/Kg	8/27/2024	18:22
Indeno (1,2,3-cd) pyrene	**7120**	ug/Kg	8/27/2024	18:22
Isophorone	< 606	ug/Kg	8/27/2024	18:22
Naphthalene	< 606	ug/Kg	8/27/2024	18:22
Nitrobenzene	< 606	ug/Kg	8/27/2024	18:22
N-Nitroso-di-n-propylamine	< 606	ug/Kg	8/27/2024	18:22
N-Nitrosodiphenylamine	< 606	ug/Kg	8/27/2024	18:22
Pentachlorophenol	< 1210	ug/Kg	8/27/2024	18:22

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 243844

Client: **Ravi Engineering & Land Surveying, P.C.**

Project Reference: 631 Northland Ave

Sample Identifier: SS-1
Lab Sample ID: 243844-01 **Date Sampled:** 8/20/2024 11:00
Matrix: Soil **Date Received** 8/21/2024

Phenanthrene	**17300**	ug/Kg		8/27/2024 18:22
Phenol	< 606	ug/Kg		8/27/2024 18:22
Pyrene	**18300**	ug/Kg		8/27/2024 18:22

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
2,4,6-Tribromophenol	**75.0**	34.3 - 95.6		8/27/2024 18:22
2-Fluorobiphenyl	**73.0**	37.9 - 87.2		8/27/2024 18:22
2-Fluorophenol	**73.2**	34.4 - 80.5		8/27/2024 18:22
Nitrobenzene-d5	**70.1**	33.2 - 82.1		8/27/2024 18:22
Phenol-d5	**80.2**	36.4 - 85.4		8/27/2024 18:22
Terphenyl-d14	**83.2**	45.9 - 96		8/27/2024 18:22

Method Reference(s): EPA 8270D
EPA 3546
Preparation Date: 8/22/2024
Data File: B73441.D

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 243844

Client: **Ravi Engineering & Land Surveying, P.C.**

Project Reference: 631 Northland Ave

Sample Identifier:	SS-2		
Lab Sample ID:	243844-02	**Date Sampled:**	8/20/2024 11:10
Matrix:	Soil	**Date Received**	8/21/2024

Mercury

Analyte	Result	Units	Qualifier	Date Analyzed
Mercury	**0.0262**	mg/Kg		8/26/2024 15:49

Method Reference(s): EPA 7471B
Preparation Date: 8/26/2024
Data File: Hg240826B

TAL Metals (ICP)

Analyte	Result	Units	Qualifier	Date Analyzed
Aluminum	**2240**	mg/Kg		8/23/2024 13:50
Antimony	< 2.94	mg/Kg		8/23/2024 13:50
Arsenic	**3.25**	mg/Kg		8/23/2024 13:50
Barium	**94.5**	mg/Kg		8/23/2024 13:50
Beryllium	< 0.245	mg/Kg		8/23/2024 13:50
Cadmium	**0.820**	mg/Kg		8/23/2024 13:50
Calcium	**228000**	mg/Kg		8/23/2024 15:40
Chromium	**31.0**	mg/Kg		8/23/2024 13:50
Cobalt	**3.75**	mg/Kg		8/23/2024 13:50
Copper	**36.1**	mg/Kg		8/23/2024 13:50
Iron	**15100**	mg/Kg		8/23/2024 13:50
Lead	**43.4**	mg/Kg		8/23/2024 13:50
Magnesium	**7790**	mg/Kg		8/23/2024 13:50
Manganese	**1100**	mg/Kg		8/23/2024 15:40
Nickel	**16.4**	mg/Kg		8/23/2024 13:50
Potassium	**970**	mg/Kg		8/23/2024 13:50
Selenium	< 0.982	mg/Kg		8/23/2024 13:50
Silver	< 0.491	mg/Kg		8/23/2024 13:50
Sodium	**396**	mg/Kg		8/23/2024 13:50
Thallium	< 1.23	mg/Kg		8/23/2024 13:50
Vanadium	**14.1**	mg/Kg		8/23/2024 13:50

Sample Identifier: SS-2
Lab Sample ID: 243844-02 **Date Sampled:** 8/20/2024 11:10
Matrix: Soil **Date Received** 8/21/2024

Zinc	**84.2**	mg/Kg		8/23/2024 13:50

Method Reference(s): EPA 6010C
EPA 3050B
Preparation Date: 8/22/2024
Data File: 240823A

PCBs

Analyte	Result	Units	Qualifier	Date Analyzed
PCB-1016	< 0.145	mg/Kg		8/23/2024 18:28
PCB-1221	< 0.145	mg/Kg		8/23/2024 18:28
PCB-1232	< 0.145	mg/Kg		8/23/2024 18:28
PCB-1242	< 0.145	mg/Kg		8/23/2024 18:28
PCB-1248	< 0.145	mg/Kg		8/23/2024 18:28
PCB-1254	< 0.145	mg/Kg		8/23/2024 18:28
PCB-1260	< 0.145	mg/Kg		8/23/2024 18:28
PCB-1262	< 0.145	mg/Kg		8/23/2024 18:28
PCB-1268	< 0.145	mg/Kg		8/23/2024 18:28

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
Tetrachloro-m-xylene	**77.2**	16.1 - 102		8/23/2024 18:28

Method Reference(s): EPA 8082A
EPA 3546
Preparation Date: 8/22/2024

Semi-Volatile Organics (Acid/Base Neutrals)

Analyte	Result	Units	Qualifier	Date Analyzed
1,1-Biphenyl	< 282	ug/Kg		8/23/2024 17:48
1,2,4,5-Tetrachlorobenzene	< 282	ug/Kg		8/23/2024 17:48
1,2,4-Trichlorobenzene	< 282	ug/Kg		8/23/2024 17:48
1,2-Dichlorobenzene	< 282	ug/Kg		8/23/2024 17:48
1,3-Dichlorobenzene	< 282	ug/Kg		8/23/2024 17:48
1,4-Dichlorobenzene	< 282	ug/Kg		8/23/2024 17:48
2,2-Oxybis (1-chloropropane)	< 282	ug/Kg		8/23/2024 17:48
2,3,4,6-Tetrachlorophenol	< 282	ug/Kg		8/23/2024 17:48

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 243844

Client: **Ravi Engineering & Land Surveying, P.C.**

Project Reference: 631 Northland Ave

Sample Identifier:	SS-2		
Lab Sample ID:	243844-02	**Date Sampled:** 8/20/2024	11:10
Matrix:	Soil	**Date Received** 8/21/2024	

2,4,5-Trichlorophenol	< 282	ug/Kg	8/23/2024	17:48
2,4,6-Trichlorophenol	< 282	ug/Kg	8/23/2024	17:48
2,4-Dichlorophenol	< 282	ug/Kg	8/23/2024	17:48
2,4-Dimethylphenol	< 282	ug/Kg	8/23/2024	17:48
2,4-Dinitrophenol	< 1130	ug/Kg	8/23/2024	17:48
2,4-Dinitrotoluene	< 282	ug/Kg	8/23/2024	17:48
2,6-Dinitrotoluene	< 282	ug/Kg	8/23/2024	17:48
2-Chloronaphthalene	< 282	ug/Kg	8/23/2024	17:48
2-Chlorophenol	< 282	ug/Kg	8/23/2024	17:48
2-Methylnapthalene	**342**	ug/Kg	8/23/2024	17:48
2-Methylphenol	< 282	ug/Kg	8/23/2024	17:48
2-Nitroaniline	< 282	ug/Kg	8/23/2024	17:48
2-Nitrophenol	< 282	ug/Kg	8/23/2024	17:48
3&4-Methylphenol	< 282	ug/Kg	8/23/2024	17:48
3,3'-Dichlorobenzidine	< 282	ug/Kg	8/23/2024	17:48
3-Nitroaniline	< 282	ug/Kg	8/23/2024	17:48
4,6-Dinitro-2-methylphenol	< 563	ug/Kg	8/23/2024	17:48
4-Bromophenyl phenyl ether	< 282	ug/Kg	8/23/2024	17:48
4-Chloro-3-methylphenol	< 282	ug/Kg	8/23/2024	17:48
4-Chloroaniline	< 282	ug/Kg	8/23/2024	17:48
4-Chlorophenyl phenyl ether	< 282	ug/Kg	8/23/2024	17:48
4-Nitroaniline	< 282	ug/Kg	8/23/2024	17:48
4-Nitrophenol	< 282	ug/Kg	8/23/2024	17:48
Acenaphthene	< 282	ug/Kg	8/23/2024	17:48
Acenaphthylene	< 282	ug/Kg	8/23/2024	17:48
Acetophenone	< 282	ug/Kg	8/23/2024	17:48
Anthracene	**375**	ug/Kg	8/23/2024	17:48
Atrazine	< 282	ug/Kg	8/23/2024	17:48
Benzaldehyde	< 282	ug/Kg	8/23/2024	17:48
Benzo (a) anthracene	**2800**	ug/Kg	8/23/2024	17:48

Client: **Ravi Engineering & Land Surveying, P.C.**

Project Reference: 631 Northland Ave

Sample Identifier: SS-2
Lab Sample ID: 243844-02 **Date Sampled:** 8/20/2024 11:10
Matrix: Soil **Date Received** 8/21/2024

Benzo (a) pyrene	**4600**	ug/Kg	8/23/2024 17:48
Benzo (b) fluoranthene	**4170**	ug/Kg	8/23/2024 17:48
Benzo (g,h,i) perylene	**3310**	ug/Kg	8/23/2024 17:48
Benzo (k) fluoranthene	**3110**	ug/Kg	8/23/2024 17:48
Bis (2-chloroethoxy) methane	< 282	ug/Kg	8/23/2024 17:48
Bis (2-chloroethyl) ether	< 282	ug/Kg	8/23/2024 17:48
Bis (2-ethylhexyl) phthalate	< 282	ug/Kg	8/23/2024 17:48
Butylbenzylphthalate	< 282	ug/Kg	8/23/2024 17:48
Caprolactam	< 282	ug/Kg	8/23/2024 17:48
Carbazole	**319**	ug/Kg	8/23/2024 17:48
Chrysene	**3980**	ug/Kg	8/23/2024 17:48
Dibenz (a,h) anthracene	**1090**	ug/Kg	8/23/2024 17:48
Dibenzofuran	< 282	ug/Kg	8/23/2024 17:48
Diethyl phthalate	< 282	ug/Kg	8/23/2024 17:48
Dimethyl phthalate	< 282	ug/Kg	8/23/2024 17:48
Di-n-butyl phthalate	< 282	ug/Kg	8/23/2024 17:48
Di-n-octylphthalate	< 282	ug/Kg	8/23/2024 17:48
Fluoranthene	**4360**	ug/Kg	8/23/2024 17:48
Fluorene	< 282	ug/Kg	8/23/2024 17:48
Hexachlorobenzene	< 282	ug/Kg	8/23/2024 17:48
Hexachlorobutadiene	< 282	ug/Kg	8/23/2024 17:48
Hexachlorocyclopentadiene	< 1130	ug/Kg	8/23/2024 17:48
Hexachloroethane	< 282	ug/Kg	8/23/2024 17:48
Indeno (1,2,3-cd) pyrene	**3360**	ug/Kg	8/23/2024 17:48
Isophorone	< 282	ug/Kg	8/23/2024 17:48
Naphthalene	< 282	ug/Kg	8/23/2024 17:48
Nitrobenzene	< 282	ug/Kg	8/23/2024 17:48
N-Nitroso-di-n-propylamine	< 282	ug/Kg	8/23/2024 17:48
N-Nitrosodiphenylamine	< 282	ug/Kg	8/23/2024 17:48
Pentachlorophenol	< 563	ug/Kg	8/23/2024 17:48

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 243844

Client: **Ravi Engineering & Land Surveying, P.C.**

Project Reference: 631 Northland Ave

Sample Identifier: SS-2
Lab Sample ID: 243844-02 **Date Sampled:** 8/20/2024 11:10
Matrix: Soil **Date Received** 8/21/2024

Phenanthrene	**2310**	ug/Kg		8/23/2024 17:48
Phenol	< 282	ug/Kg		8/23/2024 17:48
Pyrene	**4930**	ug/Kg		8/23/2024 17:48

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
2,4,6-Tribromophenol	**67.1**	34.3 - 95.6		8/23/2024 17:48
2-Fluorobiphenyl	**69.2**	37.9 - 87.2		8/23/2024 17:48
2-Fluorophenol	**66.4**	34.4 - 80.5		8/23/2024 17:48
Nitrobenzene-d5	**64.0**	33.2 - 82.1		8/23/2024 17:48
Phenol-d5	**71.1**	36.4 - 85.4		8/23/2024 17:48
Terphenyl-d14	**76.8**	45.9 - 96		8/23/2024 17:48

Method Reference(s): EPA 8270D
EPA 3546
Preparation Date: 8/22/2024
Data File: B73391.D

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 243844

Client: **Ravi Engineering & Land Surveying, P.C.**

Project Reference: 631 Northland Ave

Sample Identifier:	SS-3		
Lab Sample ID:	243844-03	**Date Sampled:**	8/20/2024 11:20
Matrix:	Soil	**Date Received**	8/21/2024

Mercury

Analyte	Result	Units	Qualifier	Date Analyzed
Mercury	**0.118**	mg/Kg		8/26/2024 15:51

Method Reference(s): EPA 7471B
Preparation Date: 8/26/2024
Data File: Hg240826B

TAL Metals (ICP)

Analyte	Result	Units	Qualifier	Date Analyzed
Aluminum	**2110**	mg/Kg		8/23/2024 13:54
Antimony	< 3.22	mg/Kg		8/23/2024 13:54
Arsenic	**5.81**	mg/Kg		8/23/2024 13:54
Barium	**255**	mg/Kg		8/23/2024 13:54
Beryllium	< 0.268	mg/Kg		8/23/2024 13:54
Cadmium	**1.75**	mg/Kg		8/23/2024 13:54
Calcium	**240000**	mg/Kg		8/23/2024 15:44
Chromium	**83.5**	mg/Kg		8/23/2024 13:54
Cobalt	**4.55**	mg/Kg		8/23/2024 13:54
Copper	**94.9**	mg/Kg		8/23/2024 13:54
Iron	**41700**	mg/Kg		8/23/2024 15:44
Lead	**98.9**	mg/Kg		8/23/2024 13:54
Magnesium	**7150**	mg/Kg		8/23/2024 13:54
Manganese	**1470**	mg/Kg		8/23/2024 15:44
Nickel	**33.2**	mg/Kg		8/23/2024 13:54
Potassium	**584**	mg/Kg		8/23/2024 13:54
Selenium	< 1.07	mg/Kg		8/23/2024 13:54
Silver	< 0.537	mg/Kg		8/23/2024 13:54
Sodium	**427**	mg/Kg		8/23/2024 13:54
Thallium	< 1.34	mg/Kg		8/23/2024 13:54
Vanadium	**19.4**	mg/Kg		8/23/2024 13:54

Sample Identifier: SS-3
Lab Sample ID: 243844-03 **Date Sampled:** 8/20/2024 11:20
Matrix: Soil **Date Received** 8/21/2024

Zinc	**172**	mg/Kg		8/23/2024 13:54

Method Reference(s): EPA 6010C
EPA 3050B
Preparation Date: 8/22/2024
Data File: 240823A

PCBs

Analyte	Result	Units	Qualifier	Date Analyzed
PCB-1016	< 0.156	mg/Kg		8/23/2024 18:51
PCB-1221	< 0.156	mg/Kg		8/23/2024 18:51
PCB-1232	< 0.156	mg/Kg		8/23/2024 18:51
PCB-1242	< 0.156	mg/Kg		8/23/2024 18:51
PCB-1248	< 0.156	mg/Kg		8/23/2024 18:51
PCB-1254	**0.218**	mg/Kg		8/23/2024 18:51
PCB-1260	< 0.156	mg/Kg		8/23/2024 18:51
PCB-1262	< 0.156	mg/Kg		8/23/2024 18:51
PCB-1268	< 0.156	mg/Kg		8/23/2024 18:51

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
Tetrachloro-m-xylene	**84.6**	16.1 - 102		8/23/2024 18:51

Method Reference(s): EPA 8082A
EPA 3546
Preparation Date: 8/22/2024

Semi-Volatile Organics (Acid/Base Neutrals)

Analyte	Result	Units	Qualifier	Date Analyzed
1,1-Biphenyl	< 1140	ug/Kg		8/28/2024 12:52
1,2,4,5-Tetrachlorobenzene	< 1140	ug/Kg		8/28/2024 12:52
1,2,4-Trichlorobenzene	< 1140	ug/Kg		8/28/2024 12:52
1,2-Dichlorobenzene	< 1140	ug/Kg		8/28/2024 12:52
1,3-Dichlorobenzene	< 1140	ug/Kg		8/28/2024 12:52
1,4-Dichlorobenzene	< 1140	ug/Kg		8/28/2024 12:52
2,2-Oxybis (1-chloropropane)	< 1140	ug/Kg		8/28/2024 12:52
2,3,4,6-Tetrachlorophenol	< 1140	ug/Kg		8/28/2024 12:52

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 243844

Client: Ravi Engineering & Land Surveying, P.C.

Project Reference: 631 Northland Ave

Sample Identifier: SS-3
Lab Sample ID: 243844-03 **Date Sampled:** 8/20/2024 11:20
Matrix: Soil **Date Received** 8/21/2024

2,4,5-Trichlorophenol	< 1140	ug/Kg	8/28/2024 12:52
2,4,6-Trichlorophenol	< 1140	ug/Kg	8/28/2024 12:52
2,4-Dichlorophenol	< 1140	ug/Kg	8/28/2024 12:52
2,4-Dimethylphenol	< 1140	ug/Kg	8/28/2024 12:52
2,4-Dinitrophenol	< 4560	ug/Kg	8/28/2024 12:52
2,4-Dinitrotoluene	< 1140	ug/Kg	8/28/2024 12:52
2,6-Dinitrotoluene	< 1140	ug/Kg	8/28/2024 12:52
2-Chloronaphthalene	< 1140	ug/Kg	8/28/2024 12:52
2-Chlorophenol	< 1140	ug/Kg	8/28/2024 12:52
2-Methylnapthalene	< 1140	ug/Kg	8/28/2024 12:52
2-Methylphenol	< 1140	ug/Kg	8/28/2024 12:52
2-Nitroaniline	< 1140	ug/Kg	8/28/2024 12:52
2-Nitrophenol	< 1140	ug/Kg	8/28/2024 12:52
3&4-Methylphenol	< 1140	ug/Kg	8/28/2024 12:52
3,3'-Dichlorobenzidine	< 1140	ug/Kg	8/28/2024 12:52
3-Nitroaniline	< 1140	ug/Kg	8/28/2024 12:52
4,6-Dinitro-2-methylphenol	< 2280	ug/Kg	8/28/2024 12:52
4-Bromophenyl phenyl ether	< 1140	ug/Kg	8/28/2024 12:52
4-Chloro-3-methylphenol	< 1140	ug/Kg	8/28/2024 12:52
4-Chloroaniline	< 1140	ug/Kg	8/28/2024 12:52
4-Chlorophenyl phenyl ether	< 1140	ug/Kg	8/28/2024 12:52
4-Nitroaniline	< 1140	ug/Kg	8/28/2024 12:52
4-Nitrophenol	< 1140	ug/Kg	8/28/2024 12:52
Acenaphthene	< 1140	ug/Kg	8/28/2024 12:52
Acenaphthylene	< 1140	ug/Kg	8/28/2024 12:52
Acetophenone	< 1140	ug/Kg	8/28/2024 12:52
Anthracene	**1140**	ug/Kg	8/28/2024 12:52
Atrazine	< 1140	ug/Kg	8/28/2024 12:52
Benzaldehyde	< 1140	ug/Kg	8/28/2024 12:52
Benzo (a) anthracene	**14900**	ug/Kg	8/28/2024 12:52

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 243844

Client: **Ravi Engineering & Land Surveying, P.C.**

Project Reference: 631 Northland Ave

Sample Identifier:	SS-3		
Lab Sample ID:	243844-03	**Date Sampled:** 8/20/2024	11:20
Matrix:	Soil	**Date Received** 8/21/2024	

Benzo (a) pyrene	**23600**	ug/Kg	8/28/2024	12:52
Benzo (b) fluoranthene	**22300**	ug/Kg	8/28/2024	12:52
Benzo (g,h,i) perylene	**16000**	ug/Kg	8/28/2024	12:52
Benzo (k) fluoranthene	**15600**	ug/Kg	8/28/2024	12:52
Bis (2-chloroethoxy) methane	< 1140	ug/Kg	8/28/2024	12:52
Bis (2-chloroethyl) ether	< 1140	ug/Kg	8/28/2024	12:52
Bis (2-ethylhexyl) phthalate	< 1140	ug/Kg	8/28/2024	12:52
Butylbenzylphthalate	< 1140	ug/Kg	8/28/2024	12:52
Caprolactam	< 1140	ug/Kg	8/28/2024	12:52
Carbazole	< 1140	ug/Kg	8/28/2024	12:52
Chrysene	**19400**	ug/Kg	8/28/2024	12:52
Dibenz (a,h) anthracene	**5550**	ug/Kg	8/28/2024	12:52
Dibenzofuran	< 1140	ug/Kg	8/28/2024	12:52
Diethyl phthalate	< 1140	ug/Kg	8/28/2024	12:52
Dimethyl phthalate	< 1140	ug/Kg	8/28/2024	12:52
Di-n-butyl phthalate	< 1140	ug/Kg	8/28/2024	12:52
Di-n-octylphthalate	< 1140	ug/Kg	8/28/2024	12:52
Fluoranthene	**17900**	ug/Kg	8/28/2024	12:52
Fluorene	< 1140	ug/Kg	8/28/2024	12:52
Hexachlorobenzene	< 1140	ug/Kg	8/28/2024	12:52
Hexachlorobutadiene	< 1140	ug/Kg	8/28/2024	12:52
Hexachlorocyclopentadiene	< 4560	ug/Kg	8/28/2024	12:52
Hexachloroethane	< 1140	ug/Kg	8/28/2024	12:52
Indeno (1,2,3-cd) pyrene	**15900**	ug/Kg	8/28/2024	12:52
Isophorone	< 1140	ug/Kg	8/28/2024	12:52
Naphthalene	< 1140	ug/Kg	8/28/2024	12:52
Nitrobenzene	< 1140	ug/Kg	8/28/2024	12:52
N-Nitroso-di-n-propylamine	< 1140	ug/Kg	8/28/2024	12:52
N-Nitrosodiphenylamine	< 1140	ug/Kg	8/28/2024	12:52
Pentachlorophenol	< 2280	ug/Kg	8/28/2024	12:52

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 243844

Client: **Ravi Engineering & Land Surveying, P.C.**

Project Reference: 631 Northland Ave

Sample Identifier: SS-3
Lab Sample ID: 243844-03 **Date Sampled:** 8/20/2024 11:20
Matrix: Soil **Date Received** 8/21/2024

Phenanthrene	**6500**	ug/Kg		8/28/2024 12:52
Phenol	< 1140	ug/Kg		8/28/2024 12:52
Pyrene	**20800**	ug/Kg		8/28/2024 12:52

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
2,4,6-Tribromophenol	**72.3**	34.3 - 95.6		8/28/2024 12:52
2-Fluorobiphenyl	**74.9**	37.9 - 87.2		8/28/2024 12:52
2-Fluorophenol	**75.7**	34.4 - 80.5		8/28/2024 12:52
Nitrobenzene-d5	**72.2**	33.2 - 82.1		8/28/2024 12:52
Phenol-d5	**81.7**	36.4 - 85.4		8/28/2024 12:52
Terphenyl-d14	**83.7**	45.9 - 96		8/28/2024 12:52

Method Reference(s): EPA 8270D
EPA 3546
Preparation Date: 8/22/2024
Data File: B73479.D

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 243844

Client: **Ravi Engineering & Land Surveying, P.C.**

Project Reference: 631 Northland Ave

Sample Identifier:	SS-4		
Lab Sample ID:	243844-04	**Date Sampled:**	8/20/2024 11:30
Matrix:	Soil	**Date Received**	8/21/2024

Mercury

Analyte	Result	Units	Qualifier	Date Analyzed
Mercury	**0.0561**	mg/Kg		8/26/2024 15:53

Method Reference(s): EPA 7471B
Preparation Date: 8/26/2024
Data File: Hg240826B

TAL Metals (ICP)

Analyte	Result	Units	Qualifier	Date Analyzed
Aluminum	**7320**	mg/Kg		8/23/2024 13:58
Antimony	< 3.35	mg/Kg		8/23/2024 13:58
Arsenic	**9.07**	mg/Kg		8/23/2024 13:58
Barium	**124**	mg/Kg		8/23/2024 13:58
Beryllium	**0.575**	mg/Kg		8/23/2024 13:58
Cadmium	**2.64**	mg/Kg		8/23/2024 13:58
Calcium	**179000**	mg/Kg		8/23/2024 15:47
Chromium	**94.9**	mg/Kg		8/23/2024 13:58
Cobalt	**6.32**	mg/Kg		8/23/2024 13:58
Copper	**196**	mg/Kg		8/23/2024 13:58
Iron	**56000**	mg/Kg		8/23/2024 15:47
Lead	**101**	mg/Kg		8/23/2024 13:58
Magnesium	**17800**	mg/Kg		8/23/2024 13:58
Manganese	**1380**	mg/Kg		8/23/2024 15:47
Nickel	**64.2**	mg/Kg		8/23/2024 13:58
Potassium	**895**	mg/Kg		8/23/2024 13:58
Selenium	< 1.12	mg/Kg		8/23/2024 13:58
Silver	< 0.558	mg/Kg		8/23/2024 13:58
Sodium	**568**	mg/Kg		8/23/2024 13:58
Thallium	< 1.40	mg/Kg		8/23/2024 13:58
Vanadium	**16.4**	mg/Kg		8/23/2024 13:58

Sample Identifier: SS-4
Lab Sample ID: 243844-04 **Date Sampled:** 8/20/2024 11:30
Matrix: Soil **Date Received** 8/21/2024

Zinc	**222**	mg/Kg		8/23/2024 13:58

Method Reference(s): EPA 6010C
EPA 3050B
Preparation Date: 8/22/2024
Data File: 240823A

PCBs

Analyte	Result	Units	Qualifier	Date Analyzed
PCB-1016	< 0.125	mg/Kg		8/23/2024 19:14
PCB-1221	< 0.125	mg/Kg		8/23/2024 19:14
PCB-1232	< 0.125	mg/Kg		8/23/2024 19:14
PCB-1242	< 0.125	mg/Kg		8/23/2024 19:14
PCB-1248	**0.172**	mg/Kg		8/23/2024 19:14
PCB-1254	**0.223**	mg/Kg		8/23/2024 19:14
PCB-1260	< 0.125	mg/Kg		8/23/2024 19:14
PCB-1262	< 0.125	mg/Kg		8/23/2024 19:14
PCB-1268	< 0.125	mg/Kg		8/23/2024 19:14

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
Tetrachloro-m-xylene	**73.7**	16.1 - 102		8/23/2024 19:14

Method Reference(s): EPA 8082A
EPA 3546
Preparation Date: 8/22/2024

Semi-Volatile Organics (Acid/Base Neutrals)

Analyte	Result	Units	Qualifier	Date Analyzed
1,1-Biphenyl	< 578	ug/Kg		8/27/2024 22:15
1,2,4,5-Tetrachlorobenzene	< 578	ug/Kg		8/27/2024 22:15
1,2,4-Trichlorobenzene	< 578	ug/Kg		8/27/2024 22:15
1,2-Dichlorobenzene	< 578	ug/Kg		8/27/2024 22:15
1,3-Dichlorobenzene	< 578	ug/Kg		8/27/2024 22:15
1,4-Dichlorobenzene	< 578	ug/Kg		8/27/2024 22:15
2,2-Oxybis (1-chloropropane)	< 578	ug/Kg		8/27/2024 22:15
2,3,4,6-Tetrachlorophenol	< 578	ug/Kg		8/27/2024 22:15

Sample Identifier: SS-4
Lab Sample ID: 243844-04 **Date Sampled:** 8/20/2024 11:30
Matrix: Soil **Date Received** 8/21/2024

2,4,5-Trichlorophenol	< 578	ug/Kg	8/27/2024 22:15
2,4,6-Trichlorophenol	< 578	ug/Kg	8/27/2024 22:15
2,4-Dichlorophenol	< 578	ug/Kg	8/27/2024 22:15
2,4-Dimethylphenol	< 578	ug/Kg	8/27/2024 22:15
2,4-Dinitrophenol	< 2310	ug/Kg	8/27/2024 22:15
2,4-Dinitrotoluene	< 578	ug/Kg	8/27/2024 22:15
2,6-Dinitrotoluene	< 578	ug/Kg	8/27/2024 22:15
2-Chloronaphthalene	< 578	ug/Kg	8/27/2024 22:15
2-Chlorophenol	< 578	ug/Kg	8/27/2024 22:15
2-Methylnapthalene	< 578	ug/Kg	8/27/2024 22:15
2-Methylphenol	< 578	ug/Kg	8/27/2024 22:15
2-Nitroaniline	< 578	ug/Kg	8/27/2024 22:15
2-Nitrophenol	< 578	ug/Kg	8/27/2024 22:15
3&4-Methylphenol	< 578	ug/Kg	8/27/2024 22:15
3,3'-Dichlorobenzidine	< 578	ug/Kg	8/27/2024 22:15
3-Nitroaniline	< 578	ug/Kg	8/27/2024 22:15
4,6-Dinitro-2-methylphenol	< 1160	ug/Kg	8/27/2024 22:15
4-Bromophenyl phenyl ether	< 578	ug/Kg	8/27/2024 22:15
4-Chloro-3-methylphenol	< 578	ug/Kg	8/27/2024 22:15
4-Chloroaniline	< 578	ug/Kg	8/27/2024 22:15
4-Chlorophenyl phenyl ether	< 578	ug/Kg	8/27/2024 22:15
4-Nitroaniline	< 578	ug/Kg	8/27/2024 22:15
4-Nitrophenol	< 578	ug/Kg	8/27/2024 22:15
Acenaphthene	**1310**	ug/Kg	8/27/2024 22:15
Acenaphthylene	< 578	ug/Kg	8/27/2024 22:15
Acetophenone	< 578	ug/Kg	8/27/2024 22:15
Anthracene	**2080**	ug/Kg	8/27/2024 22:15
Atrazine	< 578	ug/Kg	8/27/2024 22:15
Benzaldehyde	< 578	ug/Kg	8/27/2024 22:15
Benzo (a) anthracene	**5820**	ug/Kg	8/27/2024 22:15

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 243844

Client: **Ravi Engineering & Land Surveying, P.C.**

Project Reference: 631 Northland Ave

Sample Identifier: SS-4
Lab Sample ID: 243844-04 **Date Sampled:** 8/20/2024 11:30
Matrix: Soil **Date Received** 8/21/2024

Benzo (a) pyrene	**6650**	ug/Kg	8/27/2024 22:15
Benzo (b) fluoranthene	**7090**	ug/Kg	8/27/2024 22:15
Benzo (g,h,i) perylene	**4470**	ug/Kg	8/27/2024 22:15
Benzo (k) fluoranthene	**4640**	ug/Kg	8/27/2024 22:15
Bis (2-chloroethoxy) methane	< 578	ug/Kg	8/27/2024 22:15
Bis (2-chloroethyl) ether	< 578	ug/Kg	8/27/2024 22:15
Bis (2-ethylhexyl) phthalate	< 578	ug/Kg	8/27/2024 22:15
Butylbenzylphthalate	< 578	ug/Kg	8/27/2024 22:15
Caprolactam	< 578	ug/Kg	8/27/2024 22:15
Carbazole	**1380**	ug/Kg	8/27/2024 22:15
Chrysene	**6640**	ug/Kg	8/27/2024 22:15
Dibenz (a,h) anthracene	**1500**	ug/Kg	8/27/2024 22:15
Dibenzofuran	**599**	ug/Kg	8/27/2024 22:15
Diethyl phthalate	< 578	ug/Kg	8/27/2024 22:15
Dimethyl phthalate	< 578	ug/Kg	8/27/2024 22:15
Di-n-butyl phthalate	< 578	ug/Kg	8/27/2024 22:15
Di-n-octylphthalate	< 578	ug/Kg	8/27/2024 22:15
Fluoranthene	**12700**	ug/Kg	8/27/2024 22:15
Fluorene	**953**	ug/Kg	8/27/2024 22:15
Hexachlorobenzene	< 578	ug/Kg	8/27/2024 22:15
Hexachlorobutadiene	< 578	ug/Kg	8/27/2024 22:15
Hexachlorocyclopentadiene	< 2310	ug/Kg	8/27/2024 22:15
Hexachloroethane	< 578	ug/Kg	8/27/2024 22:15
Indeno (1,2,3-cd) pyrene	**4950**	ug/Kg	8/27/2024 22:15
Isophorone	< 578	ug/Kg	8/27/2024 22:15
Naphthalene	**655**	ug/Kg	8/27/2024 22:15
Nitrobenzene	< 578	ug/Kg	8/27/2024 22:15
N-Nitroso-di-n-propylamine	< 578	ug/Kg	8/27/2024 22:15
N-Nitrosodiphenylamine	< 578	ug/Kg	8/27/2024 22:15
Pentachlorophenol	< 1160	ug/Kg	8/27/2024 22:15

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 243844

Client: **Ravi Engineering & Land Surveying, P.C.**

Project Reference: 631 Northland Ave

Sample Identifier: SS-4
Lab Sample ID: 243844-04 **Date Sampled:** 8/20/2024 11:30
Matrix: Soil **Date Received** 8/21/2024

Phenanthrene	**8990**	ug/Kg		8/27/2024 22:15
Phenol	< 578	ug/Kg		8/27/2024 22:15
Pyrene	**11100**	ug/Kg		8/27/2024 22:15

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
2,4,6-Tribromophenol	**58.8**	34.3 - 95.6		8/27/2024 22:15
2-Fluorobiphenyl	**57.0**	37.9 - 87.2		8/27/2024 22:15
2-Fluorophenol	**57.0**	34.4 - 80.5		8/27/2024 22:15
Nitrobenzene-d5	**53.9**	33.2 - 82.1		8/27/2024 22:15
Phenol-d5	**62.5**	36.4 - 85.4		8/27/2024 22:15
Terphenyl-d14	**63.9**	45.9 - 96		8/27/2024 22:15

Method Reference(s): EPA 8270D
EPA 3546
Preparation Date: 8/22/2024
Data File: B73449.D

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 243844

Client: **Ravi Engineering & Land Surveying, P.C.**

Project Reference: 631 Northland Ave

Sample Identifier:	SS-5		
Lab Sample ID:	243844-05	**Date Sampled:**	8/20/2024 11:35
Matrix:	Soil	**Date Received**	8/21/2024

Mercury

Analyte	Result	Units	Qualifier	Date Analyzed
Mercury	**0.0135**	mg/Kg		8/26/2024 15:55

Method Reference(s): EPA 7471B
Preparation Date: 8/26/2024
Data File: Hg240826B

TAL Metals (ICP)

Analyte	Result	Units	Qualifier	Date Analyzed
Aluminum	**2740**	mg/Kg		8/23/2024 14:01
Antimony	< 3.20	mg/Kg		8/23/2024 14:01
Arsenic	**7.67**	mg/Kg		8/23/2024 14:01
Barium	**20.8**	mg/Kg		8/23/2024 14:01
Beryllium	< 0.267	mg/Kg		8/23/2024 14:01
Cadmium	**0.475**	mg/Kg		8/23/2024 14:01
Calcium	**193000**	mg/Kg		8/23/2024 15:50
Chromium	**11.8**	mg/Kg		8/23/2024 14:01
Cobalt	**2.73**	mg/Kg		8/23/2024 14:01
Copper	**24.2**	mg/Kg		8/23/2024 14:01
Iron	**9590**	mg/Kg		8/23/2024 14:01
Lead	**24.1**	mg/Kg		8/23/2024 14:01
Magnesium	**9340**	mg/Kg		8/23/2024 14:01
Manganese	**147**	mg/Kg		8/23/2024 14:01
Nickel	**16.3**	mg/Kg		8/23/2024 14:01
Potassium	**1100**	mg/Kg		8/23/2024 14:01
Selenium	< 1.07	mg/Kg		8/23/2024 14:01
Silver	< 0.533	mg/Kg		8/23/2024 14:01
Sodium	**250**	mg/Kg		8/23/2024 14:01
Thallium	< 1.33	mg/Kg		8/23/2024 14:01
Vanadium	**7.35**	mg/Kg		8/23/2024 14:01

Sample Identifier: SS-5
Lab Sample ID: 243844-05 **Date Sampled:** 8/20/2024 11:35
Matrix: Soil **Date Received** 8/21/2024

Zinc	**55.0**	mg/Kg		8/23/2024 14:01

Method Reference(s): EPA 6010C
EPA 3050B
Preparation Date: 8/22/2024
Data File: 240823A

PCBs

Analyte	Result	Units	Qualifier	Date Analyzed
PCB-1016	< 0.164	mg/Kg		8/23/2024 19:37
PCB-1221	< 0.164	mg/Kg		8/23/2024 19:37
PCB-1232	< 0.164	mg/Kg		8/23/2024 19:37
PCB-1242	< 0.164	mg/Kg		8/23/2024 19:37
PCB-1248	< 0.164	mg/Kg		8/23/2024 19:37
PCB-1254	< 0.164	mg/Kg		8/23/2024 19:37
PCB-1260	< 0.164	mg/Kg		8/23/2024 19:37
PCB-1262	< 0.164	mg/Kg		8/23/2024 19:37
PCB-1268	< 0.164	mg/Kg		8/23/2024 19:37

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
Tetrachloro-m-xylene	**94.8**	16.1 - 102		8/23/2024 19:37

Method Reference(s): EPA 8082A
EPA 3546
Preparation Date: 8/22/2024

Semi-Volatile Organics (Acid/Base Neutrals)

Analyte	Result	Units	Qualifier	Date Analyzed
1,1-Biphenyl	< 297	ug/Kg		8/23/2024 19:15
1,2,4,5-Tetrachlorobenzene	< 297	ug/Kg		8/23/2024 19:15
1,2,4-Trichlorobenzene	< 297	ug/Kg		8/23/2024 19:15
1,2-Dichlorobenzene	< 297	ug/Kg		8/23/2024 19:15
1,3-Dichlorobenzene	< 297	ug/Kg		8/23/2024 19:15
1,4-Dichlorobenzene	< 297	ug/Kg		8/23/2024 19:15
2,2-Oxybis (1-chloropropane)	< 297	ug/Kg		8/23/2024 19:15
2,3,4,6-Tetrachlorophenol	< 297	ug/Kg		8/23/2024 19:15

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 243844

Client: **Ravi Engineering & Land Surveying, P.C.**

Project Reference: 631 Northland Ave

Sample Identifier:	SS-5		
Lab Sample ID:	243844-05	**Date Sampled:**	8/20/2024 11:35
Matrix:	Soil	**Date Received**	8/21/2024

2,4,5-Trichlorophenol	< 297	ug/Kg	8/23/2024 19:15
2,4,6-Trichlorophenol	< 297	ug/Kg	8/23/2024 19:15
2,4-Dichlorophenol	< 297	ug/Kg	8/23/2024 19:15
2,4-Dimethylphenol	< 297	ug/Kg	8/23/2024 19:15
2,4-Dinitrophenol	< 1190	ug/Kg	8/23/2024 19:15
2,4-Dinitrotoluene	< 297	ug/Kg	8/23/2024 19:15
2,6-Dinitrotoluene	< 297	ug/Kg	8/23/2024 19:15
2-Chloronaphthalene	< 297	ug/Kg	8/23/2024 19:15
2-Chlorophenol	< 297	ug/Kg	8/23/2024 19:15
2-Methylnapthalene	< 297	ug/Kg	8/23/2024 19:15
2-Methylphenol	< 297	ug/Kg	8/23/2024 19:15
2-Nitroaniline	< 297	ug/Kg	8/23/2024 19:15
2-Nitrophenol	< 297	ug/Kg	8/23/2024 19:15
3&4-Methylphenol	< 297	ug/Kg	8/23/2024 19:15
3,3'-Dichlorobenzidine	< 297	ug/Kg	8/23/2024 19:15
3-Nitroaniline	< 297	ug/Kg	8/23/2024 19:15
4,6-Dinitro-2-methylphenol	< 594	ug/Kg	8/23/2024 19:15
4-Bromophenyl phenyl ether	< 297	ug/Kg	8/23/2024 19:15
4-Chloro-3-methylphenol	< 297	ug/Kg	8/23/2024 19:15
4-Chloroaniline	< 297	ug/Kg	8/23/2024 19:15
4-Chlorophenyl phenyl ether	< 297	ug/Kg	8/23/2024 19:15
4-Nitroaniline	< 297	ug/Kg	8/23/2024 19:15
4-Nitrophenol	< 297	ug/Kg	8/23/2024 19:15
Acenaphthene	< 297	ug/Kg	8/23/2024 19:15
Acenaphthylene	< 297	ug/Kg	8/23/2024 19:15
Acetophenone	< 297	ug/Kg	8/23/2024 19:15
Anthracene	< 297	ug/Kg	8/23/2024 19:15
Atrazine	< 297	ug/Kg	8/23/2024 19:15
Benzaldehyde	< 297	ug/Kg	8/23/2024 19:15
Benzo (a) anthracene	**447**	ug/Kg	8/23/2024 19:15

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 243844

Client: Ravi Engineering & Land Surveying, P.C.

Project Reference: 631 Northland Ave

Sample Identifier: SS-5
Lab Sample ID: 243844-05 **Date Sampled:** 8/20/2024 11:35
Matrix: Soil **Date Received** 8/21/2024

Benzo (a) pyrene	**741**	ug/Kg	8/23/2024	19:15
Benzo (b) fluoranthene	**739**	ug/Kg	8/23/2024	19:15
Benzo (g,h,i) perylene	**508**	ug/Kg	8/23/2024	19:15
Benzo (k) fluoranthene	**426**	ug/Kg	8/23/2024	19:15
Bis (2-chloroethoxy) methane	< 297	ug/Kg	8/23/2024	19:15
Bis (2-chloroethyl) ether	< 297	ug/Kg	8/23/2024	19:15
Bis (2-ethylhexyl) phthalate	< 297	ug/Kg	8/23/2024	19:15
Butylbenzylphthalate	< 297	ug/Kg	8/23/2024	19:15
Caprolactam	< 297	ug/Kg	8/23/2024	19:15
Carbazole	< 297	ug/Kg	8/23/2024	19:15
Chrysene	**656**	ug/Kg	8/23/2024	19:15
Dibenz (a,h) anthracene	< 297	ug/Kg	8/23/2024	19:15
Dibenzofuran	< 297	ug/Kg	8/23/2024	19:15
Diethyl phthalate	< 297	ug/Kg	8/23/2024	19:15
Dimethyl phthalate	< 297	ug/Kg	8/23/2024	19:15
Di-n-butyl phthalate	< 297	ug/Kg	8/23/2024	19:15
Di-n-octylphthalate	< 297	ug/Kg	8/23/2024	19:15
Fluoranthene	**534**	ug/Kg	8/23/2024	19:15
Fluorene	< 297	ug/Kg	8/23/2024	19:15
Hexachlorobenzene	< 297	ug/Kg	8/23/2024	19:15
Hexachlorobutadiene	< 297	ug/Kg	8/23/2024	19:15
Hexachlorocyclopentadiene	< 1190	ug/Kg	8/23/2024	19:15
Hexachloroethane	< 297	ug/Kg	8/23/2024	19:15
Indeno (1,2,3-cd) pyrene	**506**	ug/Kg	8/23/2024	19:15
Isophorone	< 297	ug/Kg	8/23/2024	19:15
Naphthalene	< 297	ug/Kg	8/23/2024	19:15
Nitrobenzene	< 297	ug/Kg	8/23/2024	19:15
N-Nitroso-di-n-propylamine	< 297	ug/Kg	8/23/2024	19:15
N-Nitrosodiphenylamine	< 297	ug/Kg	8/23/2024	19:15
Pentachlorophenol	< 594	ug/Kg	8/23/2024	19:15

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 243844

Client: **Ravi Engineering & Land Surveying, P.C.**

Project Reference: 631 Northland Ave

Sample Identifier: SS-5
Lab Sample ID: 243844-05 **Date Sampled:** 8/20/2024 11:35
Matrix: Soil **Date Received** 8/21/2024

Phenanthrene	< 297	ug/Kg		8/23/2024 19:15
Phenol	< 297	ug/Kg		8/23/2024 19:15
Pyrene	**661**	ug/Kg		8/23/2024 19:15

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
2,4,6-Tribromophenol	**77.8**	34.3 - 95.6		8/23/2024 19:15
2-Fluorobiphenyl	**79.9**	37.9 - 87.2		8/23/2024 19:15
2-Fluorophenol	**75.6**	34.4 - 80.5		8/23/2024 19:15
Nitrobenzene-d5	**73.6**	33.2 - 82.1		8/23/2024 19:15
Phenol-d5	**77.4**	36.4 - 85.4		8/23/2024 19:15
Terphenyl-d14	**85.4**	45.9 - 96		8/23/2024 19:15

Method Reference(s): EPA 8270D
EPA 3546
Preparation Date: 8/22/2024
Data File: B73394.D

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 243844

Client: **Ravi Engineering & Land Surveying, P.C.**

Project Reference: 631 Northland Ave

Sample Identifier:	SS-6		
Lab Sample ID:	243844-06	**Date Sampled:**	8/20/2024 11:40
Matrix:	Soil	**Date Received**	8/21/2024

Mercury

Analyte	Result	Units	Qualifier	Date Analyzed
Mercury	**0.0129**	mg/Kg		8/26/2024 15:57

Method Reference(s): EPA 7471B
Preparation Date: 8/26/2024
Data File: Hg240826B

TAL Metals (ICP)

Analyte	Result	Units	Qualifier	Date Analyzed
Aluminum	**1410**	mg/Kg		8/23/2024 15:54
Antimony	< 5.71	mg/Kg		8/23/2024 15:54
Arsenic	**3.09**	mg/Kg		8/23/2024 15:54
Barium	**83.2**	mg/Kg		8/23/2024 15:54
Beryllium	< 0.476	mg/Kg		8/23/2024 15:54
Cadmium	< 0.476	mg/Kg		8/23/2024 15:54
Calcium	**256000**	mg/Kg		8/23/2024 16:35
Chromium	**9.84**	mg/Kg		8/23/2024 15:54
Cobalt	< 4.76	mg/Kg		8/23/2024 15:54
Copper	**13.5**	mg/Kg		8/23/2024 15:54
Iron	**8670**	mg/Kg		8/23/2024 15:54
Lead	**7.07**	mg/Kg		8/23/2024 15:54
Magnesium	**8510**	mg/Kg		8/23/2024 15:54
Manganese	**270**	mg/Kg		8/23/2024 15:54
Nickel	**7.92**	mg/Kg		8/23/2024 15:54
Potassium	**607**	mg/Kg		8/23/2024 15:54
Selenium	< 1.90	mg/Kg		8/23/2024 15:54
Silver	< 0.952	mg/Kg		8/23/2024 15:54
Sodium	**270**	mg/Kg		8/23/2024 15:54
Thallium	< 2.38	mg/Kg		8/23/2024 15:54
Vanadium	**4.42**	mg/Kg		8/23/2024 15:54

Sample Identifier:	SS-6		
Lab Sample ID:	243844-06	**Date Sampled:**	8/20/2024 11:40
Matrix:	Soil	**Date Received**	8/21/2024

Zinc		**24.1**	mg/Kg		8/23/2024 15:54

Method Reference(s): EPA 6010C
EPA 3050B
Preparation Date: 8/22/2024
Data File: 240823A

PCBs

Analyte	Result	Units	Qualifier	Date Analyzed
PCB-1016	< 0.165	mg/Kg		8/23/2024 20:01
PCB-1221	< 0.165	mg/Kg		8/23/2024 20:01
PCB-1232	< 0.165	mg/Kg		8/23/2024 20:01
PCB-1242	< 0.165	mg/Kg		8/23/2024 20:01
PCB-1248	< 0.165	mg/Kg		8/23/2024 20:01
PCB-1254	< 0.165	mg/Kg		8/23/2024 20:01
PCB-1260	< 0.165	mg/Kg		8/23/2024 20:01
PCB-1262	< 0.165	mg/Kg		8/23/2024 20:01
PCB-1268	< 0.165	mg/Kg		8/23/2024 20:01

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
Tetrachloro-m-xylene	**81.8**	16.1 - 102		8/23/2024 20:01

Method Reference(s): EPA 8082A
EPA 3546
Preparation Date: 8/22/2024

Semi-Volatile Organics (Acid/Base Neutrals)

Analyte	Result	Units	Qualifier	Date Analyzed
1,1-Biphenyl	< 279	ug/Kg		8/27/2024 12:59
1,2,4,5-Tetrachlorobenzene	< 279	ug/Kg		8/27/2024 12:59
1,2,4-Trichlorobenzene	< 279	ug/Kg		8/27/2024 12:59
1,2-Dichlorobenzene	< 279	ug/Kg		8/27/2024 12:59
1,3-Dichlorobenzene	< 279	ug/Kg		8/27/2024 12:59
1,4-Dichlorobenzene	< 279	ug/Kg		8/27/2024 12:59
2,2-Oxybis (1-chloropropane)	< 279	ug/Kg		8/27/2024 12:59
2,3,4,6-Tetrachlorophenol	< 279	ug/Kg		8/27/2024 12:59

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 243844

Client: Ravi Engineering & Land Surveying, P.C.

Project Reference: 631 Northland Ave

Sample Identifier: SS-6
Lab Sample ID: 243844-06 **Date Sampled:** 8/20/2024 11:40
Matrix: Soil **Date Received** 8/21/2024

2,4,5-Trichlorophenol	< 279	ug/Kg	8/27/2024	12:59
2,4,6-Trichlorophenol	< 279	ug/Kg	8/27/2024	12:59
2,4-Dichlorophenol	< 279	ug/Kg	8/27/2024	12:59
2,4-Dimethylphenol	< 279	ug/Kg	8/27/2024	12:59
2,4-Dinitrophenol	< 1120	ug/Kg	8/27/2024	12:59
2,4-Dinitrotoluene	< 279	ug/Kg	8/27/2024	12:59
2,6-Dinitrotoluene	< 279	ug/Kg	8/27/2024	12:59
2-Chloronaphthalene	< 279	ug/Kg	8/27/2024	12:59
2-Chlorophenol	< 279	ug/Kg	8/27/2024	12:59
2-Methylnapthalene	< 279	ug/Kg	8/27/2024	12:59
2-Methylphenol	< 279	ug/Kg	8/27/2024	12:59
2-Nitroaniline	< 279	ug/Kg	8/27/2024	12:59
2-Nitrophenol	< 279	ug/Kg	8/27/2024	12:59
3&4-Methylphenol	< 279	ug/Kg	8/27/2024	12:59
3,3'-Dichlorobenzidine	< 279	ug/Kg	8/27/2024	12:59
3-Nitroaniline	< 279	ug/Kg	8/27/2024	12:59
4,6-Dinitro-2-methylphenol	< 559	ug/Kg	8/27/2024	12:59
4-Bromophenyl phenyl ether	< 279	ug/Kg	8/27/2024	12:59
4-Chloro-3-methylphenol	< 279	ug/Kg	8/27/2024	12:59
4-Chloroaniline	< 279	ug/Kg	8/27/2024	12:59
4-Chlorophenyl phenyl ether	< 279	ug/Kg	8/27/2024	12:59
4-Nitroaniline	< 279	ug/Kg	8/27/2024	12:59
4-Nitrophenol	< 279	ug/Kg	8/27/2024	12:59
Acenaphthene	< 279	ug/Kg	8/27/2024	12:59
Acenaphthylene	< 279	ug/Kg	8/27/2024	12:59
Acetophenone	< 279	ug/Kg	8/27/2024	12:59
Anthracene	< 279	ug/Kg	8/27/2024	12:59
Atrazine	< 279	ug/Kg	8/27/2024	12:59
Benzaldehyde	< 279	ug/Kg	8/27/2024	12:59
Benzo (a) anthracene	**532**	ug/Kg	8/27/2024	12:59

Client: **Ravi Engineering & Land Surveying, P.C.**

Project Reference: 631 Northland Ave

Sample Identifier: SS-6
Lab Sample ID: 243844-06 **Date Sampled:** 8/20/2024 11:40
Matrix: Soil **Date Received** 8/21/2024

Benzo (a) pyrene	**815**	ug/Kg	8/27/2024 12:59
Benzo (b) fluoranthene	**722**	ug/Kg	8/27/2024 12:59
Benzo (g,h,i) perylene	**552**	ug/Kg	8/27/2024 12:59
Benzo (k) fluoranthene	**528**	ug/Kg	8/27/2024 12:59
Bis (2-chloroethoxy) methane	< 279	ug/Kg	8/27/2024 12:59
Bis (2-chloroethyl) ether	< 279	ug/Kg	8/27/2024 12:59
Bis (2-ethylhexyl) phthalate	< 279	ug/Kg	8/27/2024 12:59
Butylbenzylphthalate	< 279	ug/Kg	8/27/2024 12:59
Caprolactam	< 279	ug/Kg	8/27/2024 12:59
Carbazole	< 279	ug/Kg	8/27/2024 12:59
Chrysene	**726**	ug/Kg	8/27/2024 12:59
Dibenz (a,h) anthracene	< 279	ug/Kg	8/27/2024 12:59
Dibenzofuran	< 279	ug/Kg	8/27/2024 12:59
Diethyl phthalate	< 279	ug/Kg	8/27/2024 12:59
Dimethyl phthalate	< 279	ug/Kg	8/27/2024 12:59
Di-n-butyl phthalate	< 279	ug/Kg	8/27/2024 12:59
Di-n-octylphthalate	< 279	ug/Kg	8/27/2024 12:59
Fluoranthene	**583**	ug/Kg	8/27/2024 12:59
Fluorene	< 279	ug/Kg	8/27/2024 12:59
Hexachlorobenzene	< 279	ug/Kg	8/27/2024 12:59
Hexachlorobutadiene	< 279	ug/Kg	8/27/2024 12:59
Hexachlorocyclopentadiene	< 1120	ug/Kg	8/27/2024 12:59
Hexachloroethane	< 279	ug/Kg	8/27/2024 12:59
Indeno (1,2,3-cd) pyrene	**574**	ug/Kg	8/27/2024 12:59
Isophorone	< 279	ug/Kg	8/27/2024 12:59
Naphthalene	< 279	ug/Kg	8/27/2024 12:59
Nitrobenzene	< 279	ug/Kg	8/27/2024 12:59
N-Nitroso-di-n-propylamine	< 279	ug/Kg	8/27/2024 12:59
N-Nitrosodiphenylamine	< 279	ug/Kg	8/27/2024 12:59
Pentachlorophenol	< 559	ug/Kg	8/27/2024 12:59

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 243844

Client: **Ravi Engineering & Land Surveying, P.C.**

Project Reference: 631 Northland Ave

Sample Identifier: SS-6
Lab Sample ID: 243844-06 **Date Sampled:** 8/20/2024 11:40
Matrix: Soil **Date Received** 8/21/2024

Phenanthrene	**297**	ug/Kg		8/27/2024 12:59
Phenol	< 279	ug/Kg		8/27/2024 12:59
Pyrene	**775**	ug/Kg		8/27/2024 12:59

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
2,4,6-Tribromophenol	**70.5**	34.3 - 95.6		8/27/2024 12:59
2-Fluorobiphenyl	**72.0**	37.9 - 87.2		8/27/2024 12:59
2-Fluorophenol	**68.9**	34.4 - 80.5		8/27/2024 12:59
Nitrobenzene-d5	**66.5**	33.2 - 82.1		8/27/2024 12:59
Phenol-d5	**73.8**	36.4 - 85.4		8/27/2024 12:59
Terphenyl-d14	**76.3**	45.9 - 96		8/27/2024 12:59

Method Reference(s): EPA 8270D
EPA 3546
Preparation Date: 8/23/2024
Data File: B73430.D

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 243844

Client: Ravi Engineering & Land Surveying, P.C.

Project Reference: 631 Northland Ave

Sample Identifier:	SS-7		
Lab Sample ID:	243844-07	**Date Sampled:**	8/20/2024 11:50
Matrix:	Soil	**Date Received**	8/21/2024

Mercury

Analyte	Result	Units	Qualifier	Date Analyzed
Mercury	**0.0506**	mg/Kg		8/26/2024 15:59

Method Reference(s): EPA 7471B
Preparation Date: 8/26/2024
Data File: Hg240826B

TAL Metals (ICP)

Analyte	Result	Units	Qualifier	Date Analyzed
Aluminum	**3660**	mg/Kg		8/23/2024 14:14
Antimony	< 3.10	mg/Kg		8/23/2024 14:14
Arsenic	**24.7**	mg/Kg		8/23/2024 14:14
Barium	**79.6**	mg/Kg		8/23/2024 14:14
Beryllium	< 0.258	mg/Kg		8/23/2024 14:14
Cadmium	**4.59**	mg/Kg		8/23/2024 14:14
Calcium	**144000**	mg/Kg		8/23/2024 15:57
Chromium	**171**	mg/Kg		8/23/2024 14:14
Cobalt	**11.6**	mg/Kg		8/23/2024 14:14
Copper	**237**	mg/Kg		8/23/2024 14:14
Iron	**123000**	mg/Kg		8/23/2024 15:57
Lead	**42.2**	mg/Kg		8/23/2024 14:14
Magnesium	**7700**	mg/Kg		8/23/2024 14:14
Manganese	**3070**	mg/Kg		8/23/2024 15:57
Nickel	**109**	mg/Kg		8/23/2024 14:14
Potassium	**1080**	mg/Kg		8/23/2024 14:14
Selenium	< 1.03	mg/Kg		8/23/2024 14:14
Silver	< 0.517	mg/Kg		8/23/2024 14:14
Sodium	**592**	mg/Kg		8/23/2024 14:14
Thallium	< 1.29	mg/Kg		8/23/2024 14:14
Vanadium	**16.9**	mg/Kg		8/23/2024 14:14

Sample Identifier: SS-7
Lab Sample ID: 243844-07 **Date Sampled:** 8/20/2024 11:50
Matrix: Soil **Date Received** 8/21/2024

Zinc	**115**	mg/Kg		8/23/2024 14:14

Method Reference(s): EPA 6010C
EPA 3050B
Preparation Date: 8/22/2024
Data File: 240823A

PCBs

Analyte	Result	Units	Qualifier	Date Analyzed
PCB-1016	< 0.134	mg/Kg		8/23/2024 21:10
PCB-1221	< 0.134	mg/Kg		8/23/2024 21:10
PCB-1232	< 0.134	mg/Kg		8/23/2024 21:10
PCB-1242	< 0.134	mg/Kg		8/23/2024 21:10
PCB-1248	< 0.134	mg/Kg		8/23/2024 21:10
PCB-1254	< 0.134	mg/Kg		8/23/2024 21:10
PCB-1260	< 0.134	mg/Kg		8/23/2024 21:10
PCB-1262	< 0.134	mg/Kg		8/23/2024 21:10
PCB-1268	< 0.134	mg/Kg		8/23/2024 21:10

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
Tetrachloro-m-xylene	**83.2**	16.1 - 102		8/23/2024 21:10

Method Reference(s): EPA 8082A
EPA 3546
Preparation Date: 8/23/2024

Semi-Volatile Organics (Acid/Base Neutrals)

Analyte	Result	Units	Qualifier	Date Analyzed
1,1-Biphenyl	< 302	ug/Kg		8/27/2024 13:28
1,2,4,5-Tetrachlorobenzene	< 302	ug/Kg		8/27/2024 13:28
1,2,4-Trichlorobenzene	< 302	ug/Kg		8/27/2024 13:28
1,2-Dichlorobenzene	< 302	ug/Kg		8/27/2024 13:28
1,3-Dichlorobenzene	< 302	ug/Kg		8/27/2024 13:28
1,4-Dichlorobenzene	< 302	ug/Kg		8/27/2024 13:28
2,2-Oxybis (1-chloropropane)	< 302	ug/Kg		8/27/2024 13:28
2,3,4,6-Tetrachlorophenol	< 302	ug/Kg	M	8/27/2024 13:28

Client: **Ravi Engineering & Land Surveying, P.C.**

Project Reference: 631 Northland Ave

Sample Identifier: SS-7
Lab Sample ID: 243844-07 **Date Sampled:** 8/20/2024 11:50
Matrix: Soil **Date Received** 8/21/2024

2,4,5-Trichlorophenol	< 302	ug/Kg		8/27/2024	13:28
2,4,6-Trichlorophenol	< 302	ug/Kg		8/27/2024	13:28
2,4-Dichlorophenol	< 302	ug/Kg		8/27/2024	13:28
2,4-Dimethylphenol	< 302	ug/Kg	M	8/27/2024	13:28
2,4-Dinitrophenol	< 1210	ug/Kg		8/27/2024	13:28
2,4-Dinitrotoluene	< 302	ug/Kg		8/27/2024	13:28
2,6-Dinitrotoluene	< 302	ug/Kg		8/27/2024	13:28
2-Chloronaphthalene	< 302	ug/Kg		8/27/2024	13:28
2-Chlorophenol	< 302	ug/Kg		8/27/2024	13:28
2-Methylnapthalene	< 302	ug/Kg		8/27/2024	13:28
2-Methylphenol	< 302	ug/Kg		8/27/2024	13:28
2-Nitroaniline	< 302	ug/Kg		8/27/2024	13:28
2-Nitrophenol	< 302	ug/Kg	M	8/27/2024	13:28
3&4-Methylphenol	< 302	ug/Kg		8/27/2024	13:28
3,3'-Dichlorobenzidine	< 302	ug/Kg		8/27/2024	13:28
3-Nitroaniline	< 302	ug/Kg		8/27/2024	13:28
4,6-Dinitro-2-methylphenol	< 604	ug/Kg		8/27/2024	13:28
4-Bromophenyl phenyl ether	< 302	ug/Kg		8/27/2024	13:28
4-Chloro-3-methylphenol	< 302	ug/Kg		8/27/2024	13:28
4-Chloroaniline	< 302	ug/Kg		8/27/2024	13:28
4-Chlorophenyl phenyl ether	< 302	ug/Kg		8/27/2024	13:28
4-Nitroaniline	< 302	ug/Kg		8/27/2024	13:28
4-Nitrophenol	< 302	ug/Kg		8/27/2024	13:28
Acenaphthene	**1130**	ug/Kg	M	8/27/2024	13:28
Acenaphthylene	< 302	ug/Kg		8/27/2024	13:28
Acetophenone	< 302	ug/Kg		8/27/2024	13:28
Anthracene	**1710**	ug/Kg		8/27/2024	13:28
Atrazine	< 302	ug/Kg		8/27/2024	13:28
Benzaldehyde	< 302	ug/Kg		8/27/2024	13:28
Benzo (a) anthracene	**5410**	ug/Kg		8/27/2024	13:28

Client: **Ravi Engineering & Land Surveying, P.C.**

Project Reference: 631 Northland Ave

Sample Identifier: SS-7
Lab Sample ID: 243844-07 **Date Sampled:** 8/20/2024 11:50
Matrix: Soil **Date Received** 8/21/2024

Benzo (a) pyrene	**6330**	ug/Kg	8/27/2024	13:28
Benzo (b) fluoranthene	**6970**	ug/Kg	8/27/2024	13:28
Benzo (g,h,i) perylene	**3980**	ug/Kg	8/27/2024	13:28
Benzo (k) fluoranthene	**3800**	ug/Kg	8/27/2024	13:28
Bis (2-chloroethoxy) methane	< 302	ug/Kg	8/27/2024	13:28
Bis (2-chloroethyl) ether	< 302	ug/Kg	8/27/2024	13:28
Bis (2-ethylhexyl) phthalate	< 302	ug/Kg	8/27/2024	13:28
Butylbenzylphthalate	< 302	ug/Kg	8/27/2024	13:28
Caprolactam	< 302	ug/Kg	8/27/2024	13:28
Carbazole	**1130**	ug/Kg	8/27/2024	13:28
Chrysene	**6520**	ug/Kg	8/27/2024	13:28
Dibenz (a,h) anthracene	**1510**	ug/Kg	8/27/2024	13:28
Dibenzofuran	**441**	ug/Kg	8/27/2024	13:28
Diethyl phthalate	< 302	ug/Kg	8/27/2024	13:28
Dimethyl phthalate	< 302	ug/Kg	8/27/2024	13:28
Di-n-butyl phthalate	< 302	ug/Kg	8/27/2024	13:28
Di-n-octylphthalate	< 302	ug/Kg	8/27/2024	13:28
Fluoranthene	**12000**	ug/Kg	8/27/2024	13:28
Fluorene	**919**	ug/Kg	8/27/2024	13:28
Hexachlorobenzene	< 302	ug/Kg	8/27/2024	13:28
Hexachlorobutadiene	< 302	ug/Kg	8/27/2024	13:28
Hexachlorocyclopentadiene	< 1210	ug/Kg	8/27/2024	13:28
Hexachloroethane	< 302	ug/Kg	8/27/2024	13:28
Indeno (1,2,3-cd) pyrene	**4430**	ug/Kg	8/27/2024	13:28
Isophorone	< 302	ug/Kg	8/27/2024	13:28
Naphthalene	< 302	ug/Kg	8/27/2024	13:28
Nitrobenzene	< 302	ug/Kg	8/27/2024	13:28
N-Nitroso-di-n-propylamine	< 302	ug/Kg	8/27/2024	13:28
N-Nitrosodiphenylamine	< 302	ug/Kg	8/27/2024	13:28
Pentachlorophenol	< 604	ug/Kg	8/27/2024	13:28

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 243844

Client: **Ravi Engineering & Land Surveying, P.C.**

Project Reference: 631 Northland Ave

Sample Identifier: SS-7
Lab Sample ID: 243844-07 **Date Sampled:** 8/20/2024 11:50
Matrix: Soil **Date Received** 8/21/2024

Phenanthrene	**9040**	ug/Kg			8/27/2024 13:28
Phenol	< 302	ug/Kg			8/27/2024 13:28
Pyrene	**10600**	ug/Kg		D,M	8/27/2024 13:28

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
2,4,6-Tribromophenol	**46.9**	34.3 - 95.6		8/27/2024 13:28
2-Fluorobiphenyl	**58.5**	37.9 - 87.2		8/27/2024 13:28
2-Fluorophenol	**53.2**	34.4 - 80.5		8/27/2024 13:28
Nitrobenzene-d5	**52.8**	33.2 - 82.1		8/27/2024 13:28
Phenol-d5	**58.9**	36.4 - 85.4		8/27/2024 13:28
Terphenyl-d14	**64.6**	45.9 - 96		8/27/2024 13:28

Method Reference(s): EPA 8270D
EPA 3546
Preparation Date: 8/23/2024
Data File: B73431.D

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 243844

Client: Ravi Engineering & Land Surveying, P.C.

Project Reference: 631 Northland Ave

Sample Identifier:	SS-8		
Lab Sample ID:	243844-08	**Date Sampled:**	8/20/2024 11:55
Matrix:	Soil	**Date Received**	8/21/2024

Mercury

Analyte	Result	Units	Qualifier	Date Analyzed
Mercury	< 0.00706	mg/Kg		8/26/2024 16:05

Method Reference(s): EPA 7471B
Preparation Date: 8/26/2024
Data File: Hg240826B

TAL Metals (ICP)

Analyte	Result	Units	Qualifier	Date Analyzed
Aluminum	**856**	mg/Kg		8/23/2024 14:18
Antimony	< 3.03	mg/Kg		8/23/2024 14:18
Arsenic	**2.74**	mg/Kg		8/23/2024 14:18
Barium	< 5.05	mg/Kg		8/23/2024 14:18
Beryllium	< 0.253	mg/Kg		8/23/2024 14:18
Cadmium	< 0.253	mg/Kg		8/23/2024 14:18
Calcium	**147000**	mg/Kg		8/23/2024 16:00
Chromium	**3.83**	mg/Kg		8/23/2024 14:18
Cobalt	< 2.53	mg/Kg		8/23/2024 14:18
Copper	**6.23**	mg/Kg		8/23/2024 14:18
Iron	**2670**	mg/Kg		8/23/2024 14:18
Lead	**2.78**	mg/Kg		8/23/2024 14:18
Magnesium	**4030**	mg/Kg		8/23/2024 14:18
Manganese	**52.2**	mg/Kg		8/23/2024 14:18
Nickel	**7.60**	mg/Kg		8/23/2024 14:18
Potassium	**547**	mg/Kg		8/23/2024 14:18
Selenium	< 1.01	mg/Kg		8/23/2024 14:18
Silver	< 0.505	mg/Kg		8/23/2024 14:18
Sodium	**204**	mg/Kg		8/23/2024 14:18
Thallium	< 1.26	mg/Kg		8/23/2024 14:18
Vanadium	**3.22**	mg/Kg		8/23/2024 14:18

Sample Identifier: SS-8
Lab Sample ID: 243844-08 **Date Sampled:** 8/20/2024 11:55
Matrix: Soil **Date Received** 8/21/2024

Zinc	**14.4**	mg/Kg		8/23/2024 14:18

Method Reference(s): EPA 6010C
EPA 3050B
Preparation Date: 8/22/2024
Data File: 240823A

PCBs

Analyte	Result	Units	Qualifier	Date Analyzed
PCB-1016	< 0.142	mg/Kg		8/23/2024 21:33
PCB-1221	< 0.142	mg/Kg		8/23/2024 21:33
PCB-1232	< 0.142	mg/Kg		8/23/2024 21:33
PCB-1242	< 0.142	mg/Kg		8/23/2024 21:33
PCB-1248	< 0.142	mg/Kg		8/23/2024 21:33
PCB-1254	< 0.142	mg/Kg		8/23/2024 21:33
PCB-1260	< 0.142	mg/Kg		8/23/2024 21:33
PCB-1262	< 0.142	mg/Kg		8/23/2024 21:33
PCB-1268	< 0.142	mg/Kg		8/23/2024 21:33

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
Tetrachloro-m-xylene	**72.2**	16.1 - 102		8/23/2024 21:33

Method Reference(s): EPA 8082A
EPA 3546
Preparation Date: 8/23/2024

Semi-Volatile Organics (Acid/Base Neutrals)

Analyte	Result	Units	Qualifier	Date Analyzed
1,1-Biphenyl	< 288	ug/Kg		8/27/2024 14:56
1,2,4,5-Tetrachlorobenzene	< 288	ug/Kg		8/27/2024 14:56
1,2,4-Trichlorobenzene	< 288	ug/Kg		8/27/2024 14:56
1,2-Dichlorobenzene	< 288	ug/Kg		8/27/2024 14:56
1,3-Dichlorobenzene	< 288	ug/Kg		8/27/2024 14:56
1,4-Dichlorobenzene	< 288	ug/Kg		8/27/2024 14:56
2,2-Oxybis (1-chloropropane)	< 288	ug/Kg		8/27/2024 14:56
2,3,4,6-Tetrachlorophenol	< 288	ug/Kg		8/27/2024 14:56

Client: **Ravi Engineering & Land Surveying, P.C.**

Project Reference: 631 Northland Ave

Sample Identifier: SS-8
Lab Sample ID: 243844-08 **Date Sampled:** 8/20/2024 11:55
Matrix: Soil **Date Received** 8/21/2024

2,4,5-Trichlorophenol	< 288	ug/Kg	8/27/2024 14:56
2,4,6-Trichlorophenol	< 288	ug/Kg	8/27/2024 14:56
2,4-Dichlorophenol	< 288	ug/Kg	8/27/2024 14:56
2,4-Dimethylphenol	< 288	ug/Kg	8/27/2024 14:56
2,4-Dinitrophenol	< 1150	ug/Kg	8/27/2024 14:56
2,4-Dinitrotoluene	< 288	ug/Kg	8/27/2024 14:56
2,6-Dinitrotoluene	< 288	ug/Kg	8/27/2024 14:56
2-Chloronaphthalene	< 288	ug/Kg	8/27/2024 14:56
2-Chlorophenol	< 288	ug/Kg	8/27/2024 14:56
2-Methylnapthalene	< 288	ug/Kg	8/27/2024 14:56
2-Methylphenol	< 288	ug/Kg	8/27/2024 14:56
2-Nitroaniline	< 288	ug/Kg	8/27/2024 14:56
2-Nitrophenol	< 288	ug/Kg	8/27/2024 14:56
3&4-Methylphenol	< 288	ug/Kg	8/27/2024 14:56
3,3'-Dichlorobenzidine	< 288	ug/Kg	8/27/2024 14:56
3-Nitroaniline	< 288	ug/Kg	8/27/2024 14:56
4,6-Dinitro-2-methylphenol	< 576	ug/Kg	8/27/2024 14:56
4-Bromophenyl phenyl ether	< 288	ug/Kg	8/27/2024 14:56
4-Chloro-3-methylphenol	< 288	ug/Kg	8/27/2024 14:56
4-Chloroaniline	< 288	ug/Kg	8/27/2024 14:56
4-Chlorophenyl phenyl ether	< 288	ug/Kg	8/27/2024 14:56
4-Nitroaniline	< 288	ug/Kg	8/27/2024 14:56
4-Nitrophenol	< 288	ug/Kg	8/27/2024 14:56
Acenaphthene	< 288	ug/Kg	8/27/2024 14:56
Acenaphthylene	< 288	ug/Kg	8/27/2024 14:56
Acetophenone	< 288	ug/Kg	8/27/2024 14:56
Anthracene	< 288	ug/Kg	8/27/2024 14:56
Atrazine	< 288	ug/Kg	8/27/2024 14:56
Benzaldehyde	< 288	ug/Kg	8/27/2024 14:56
Benzo (a) anthracene	< 288	ug/Kg	8/27/2024 14:56

Lab Project ID: 243844

Client: **Ravi Engineering & Land Surveying, P.C.**

Project Reference: 631 Northland Ave

Sample Identifier:	SS-8		
Lab Sample ID:	243844-08	**Date Sampled:** 8/20/2024	11:55
Matrix:	Soil	**Date Received** 8/21/2024	

Benzo (a) pyrene	< 288	ug/Kg	8/27/2024	14:56
Benzo (b) fluoranthene	< 288	ug/Kg	8/27/2024	14:56
Benzo (g,h,i) perylene	< 288	ug/Kg	8/27/2024	14:56
Benzo (k) fluoranthene	< 288	ug/Kg	8/27/2024	14:56
Bis (2-chloroethoxy) methane	< 288	ug/Kg	8/27/2024	14:56
Bis (2-chloroethyl) ether	< 288	ug/Kg	8/27/2024	14:56
Bis (2-ethylhexyl) phthalate	< 288	ug/Kg	8/27/2024	14:56
Butylbenzylphthalate	< 288	ug/Kg	8/27/2024	14:56
Caprolactam	< 288	ug/Kg	8/27/2024	14:56
Carbazole	< 288	ug/Kg	8/27/2024	14:56
Chrysene	< 288	ug/Kg	8/27/2024	14:56
Dibenz (a,h) anthracene	< 288	ug/Kg	8/27/2024	14:56
Dibenzofuran	< 288	ug/Kg	8/27/2024	14:56
Diethyl phthalate	< 288	ug/Kg	8/27/2024	14:56
Dimethyl phthalate	< 288	ug/Kg	8/27/2024	14:56
Di-n-butyl phthalate	< 288	ug/Kg	8/27/2024	14:56
Di-n-octylphthalate	< 288	ug/Kg	8/27/2024	14:56
Fluoranthene	< 288	ug/Kg	8/27/2024	14:56
Fluorene	< 288	ug/Kg	8/27/2024	14:56
Hexachlorobenzene	< 288	ug/Kg	8/27/2024	14:56
Hexachlorobutadiene	< 288	ug/Kg	8/27/2024	14:56
Hexachlorocyclopentadiene	< 1150	ug/Kg	8/27/2024	14:56
Hexachloroethane	< 288	ug/Kg	8/27/2024	14:56
Indeno (1,2,3-cd) pyrene	< 288	ug/Kg	8/27/2024	14:56
Isophorone	< 288	ug/Kg	8/27/2024	14:56
Naphthalene	< 288	ug/Kg	8/27/2024	14:56
Nitrobenzene	< 288	ug/Kg	8/27/2024	14:56
N-Nitroso-di-n-propylamine	< 288	ug/Kg	8/27/2024	14:56
N-Nitrosodiphenylamine	< 288	ug/Kg	8/27/2024	14:56
Pentachlorophenol	< 576	ug/Kg	8/27/2024	14:56

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 243844

Client: **Ravi Engineering & Land Surveying, P.C.**

Project Reference: 631 Northland Ave

Sample Identifier: SS-8
Lab Sample ID: 243844-08 **Date Sampled:** 8/20/2024 11:55
Matrix: Soil **Date Received** 8/21/2024

Phenanthrene	< 288	ug/Kg		8/27/2024 14:56
Phenol	< 288	ug/Kg		8/27/2024 14:56
Pyrene	< 288	ug/Kg		8/27/2024 14:56

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
2,4,6-Tribromophenol	**64.0**	34.3 - 95.6		8/27/2024 14:56
2-Fluorobiphenyl	**70.0**	37.9 - 87.2		8/27/2024 14:56
2-Fluorophenol	**67.2**	34.4 - 80.5		8/27/2024 14:56
Nitrobenzene-d5	**64.9**	33.2 - 82.1		8/27/2024 14:56
Phenol-d5	**73.1**	36.4 - 85.4		8/27/2024 14:56
Terphenyl-d14	**78.5**	45.9 - 96		8/27/2024 14:56

Method Reference(s): EPA 8270D
EPA 3546
Preparation Date: 8/23/2024
Data File: B73434.D

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 243844

Client: **Ravi Engineering & Land Surveying, P.C.**

Project Reference: 631 Northland Ave

Sample Identifier:	SS-9		
Lab Sample ID:	243844-09	**Date Sampled:**	8/20/2024 12:00
Matrix:	Soil	**Date Received**	8/21/2024

Mercury

Analyte	Result	Units	Qualifier	Date Analyzed
Mercury	**0.0188**	mg/Kg		8/26/2024 16:07

Method Reference(s): EPA 7471B
Preparation Date: 8/26/2024
Data File: Hg240826B

TAL Metals (ICP)

Analyte	Result	Units	Qualifier	Date Analyzed
Aluminum	**8320**	mg/Kg		8/23/2024 14:21
Antimony	< 3.18	mg/Kg		8/23/2024 14:21
Arsenic	**7.30**	mg/Kg		8/23/2024 14:21
Barium	**90.9**	mg/Kg		8/23/2024 14:21
Beryllium	**0.752**	mg/Kg		8/23/2024 14:21
Cadmium	**0.795**	mg/Kg		8/23/2024 14:21
Calcium	**127000**	mg/Kg		8/23/2024 16:03
Chromium	**24.9**	mg/Kg		8/23/2024 14:21
Cobalt	**3.38**	mg/Kg		8/23/2024 14:21
Copper	**2070**	mg/Kg		8/23/2024 16:03
Iron	**19400**	mg/Kg		8/23/2024 14:21
Lead	**33.6**	mg/Kg		8/23/2024 14:21
Magnesium	**11400**	mg/Kg		8/23/2024 14:21
Manganese	**1770**	mg/Kg		8/23/2024 16:03
Nickel	**16.4**	mg/Kg		8/23/2024 14:21
Potassium	**927**	mg/Kg		8/23/2024 14:21
Selenium	< 1.06	mg/Kg		8/23/2024 14:21
Silver	< 0.530	mg/Kg		8/23/2024 14:21
Sodium	**365**	mg/Kg		8/23/2024 14:21
Thallium	< 1.32	mg/Kg		8/23/2024 14:21
Vanadium	**8.56**	mg/Kg		8/23/2024 14:21

Sample Identifier: SS-9
Lab Sample ID: 243844-09 **Date Sampled:** 8/20/2024 12:00
Matrix: Soil **Date Received** 8/21/2024

Zinc	**54.0**	mg/Kg		8/23/2024 14:21

Method Reference(s): EPA 6010C
EPA 3050B
Preparation Date: 8/22/2024
Data File: 240823A

PCBs

Analyte	Result	Units	Qualifier	Date Analyzed
PCB-1016	< 0.163	mg/Kg		8/23/2024 21:56
PCB-1221	< 0.163	mg/Kg		8/23/2024 21:56
PCB-1232	< 0.163	mg/Kg		8/23/2024 21:56
PCB-1242	< 0.163	mg/Kg		8/23/2024 21:56
PCB-1248	< 0.163	mg/Kg		8/23/2024 21:56
PCB-1254	**0.449**	mg/Kg		8/23/2024 21:56
PCB-1260	< 0.163	mg/Kg		8/23/2024 21:56
PCB-1262	< 0.163	mg/Kg		8/23/2024 21:56
PCB-1268	< 0.163	mg/Kg		8/23/2024 21:56

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
Tetrachloro-m-xylene	**86.6**	16.1 - 102		8/23/2024 21:56

Method Reference(s): EPA 8082A
EPA 3546
Preparation Date: 8/23/2024

Semi-Volatile Organics (Acid/Base Neutrals)

Analyte	Result	Units	Qualifier	Date Analyzed
1,1-Biphenyl	< 304	ug/Kg		8/27/2024 15:26
1,2,4,5-Tetrachlorobenzene	< 304	ug/Kg		8/27/2024 15:26
1,2,4-Trichlorobenzene	< 304	ug/Kg		8/27/2024 15:26
1,2-Dichlorobenzene	< 304	ug/Kg		8/27/2024 15:26
1,3-Dichlorobenzene	< 304	ug/Kg		8/27/2024 15:26
1,4-Dichlorobenzene	< 304	ug/Kg		8/27/2024 15:26
2,2-Oxybis (1-chloropropane)	< 304	ug/Kg		8/27/2024 15:26
2,3,4,6-Tetrachlorophenol	< 304	ug/Kg		8/27/2024 15:26

Lab Project ID: 243844

Client: **Ravi Engineering & Land Surveying, P.C.**

Project Reference: 631 Northland Ave

Sample Identifier: SS-9
Lab Sample ID: 243844-09 **Date Sampled:** 8/20/2024 12:00
Matrix: Soil **Date Received** 8/21/2024

2,4,5-Trichlorophenol	< 304	ug/Kg	8/27/2024 15:26
2,4,6-Trichlorophenol	< 304	ug/Kg	8/27/2024 15:26
2,4-Dichlorophenol	< 304	ug/Kg	8/27/2024 15:26
2,4-Dimethylphenol	< 304	ug/Kg	8/27/2024 15:26
2,4-Dinitrophenol	< 1220	ug/Kg	8/27/2024 15:26
2,4-Dinitrotoluene	< 304	ug/Kg	8/27/2024 15:26
2,6-Dinitrotoluene	< 304	ug/Kg	8/27/2024 15:26
2-Chloronaphthalene	< 304	ug/Kg	8/27/2024 15:26
2-Chlorophenol	< 304	ug/Kg	8/27/2024 15:26
2-Methylnapthalene	**333**	ug/Kg	8/27/2024 15:26
2-Methylphenol	< 304	ug/Kg	8/27/2024 15:26
2-Nitroaniline	< 304	ug/Kg	8/27/2024 15:26
2-Nitrophenol	< 304	ug/Kg	8/27/2024 15:26
3&4-Methylphenol	< 304	ug/Kg	8/27/2024 15:26
3,3'-Dichlorobenzidine	< 304	ug/Kg	8/27/2024 15:26
3-Nitroaniline	< 304	ug/Kg	8/27/2024 15:26
4,6-Dinitro-2-methylphenol	< 609	ug/Kg	8/27/2024 15:26
4-Bromophenyl phenyl ether	< 304	ug/Kg	8/27/2024 15:26
4-Chloro-3-methylphenol	< 304	ug/Kg	8/27/2024 15:26
4-Chloroaniline	< 304	ug/Kg	8/27/2024 15:26
4-Chlorophenyl phenyl ether	< 304	ug/Kg	8/27/2024 15:26
4-Nitroaniline	< 304	ug/Kg	8/27/2024 15:26
4-Nitrophenol	< 304	ug/Kg	8/27/2024 15:26
Acenaphthene	< 304	ug/Kg	8/27/2024 15:26
Acenaphthylene	< 304	ug/Kg	8/27/2024 15:26
Acetophenone	< 304	ug/Kg	8/27/2024 15:26
Anthracene	**475**	ug/Kg	8/27/2024 15:26
Atrazine	< 304	ug/Kg	8/27/2024 15:26
Benzaldehyde	< 304	ug/Kg	8/27/2024 15:26
Benzo (a) anthracene	**4850**	ug/Kg	8/27/2024 15:26

Client: **Ravi Engineering & Land Surveying, P.C.**

Project Reference: 631 Northland Ave

Sample Identifier: SS-9
Lab Sample ID: 243844-09 **Date Sampled:** 8/20/2024 12:00
Matrix: Soil **Date Received** 8/21/2024

Benzo (a) pyrene	**7510**	ug/Kg	8/27/2024 15:26
Benzo (b) fluoranthene	**7900**	ug/Kg	8/27/2024 15:26
Benzo (g,h,i) perylene	**5190**	ug/Kg	8/27/2024 15:26
Benzo (k) fluoranthene	**4750**	ug/Kg	8/27/2024 15:26
Bis (2-chloroethoxy) methane	< 304	ug/Kg	8/27/2024 15:26
Bis (2-chloroethyl) ether	< 304	ug/Kg	8/27/2024 15:26
Bis (2-ethylhexyl) phthalate	< 304	ug/Kg	8/27/2024 15:26
Butylbenzylphthalate	< 304	ug/Kg	8/27/2024 15:26
Caprolactam	< 304	ug/Kg	8/27/2024 15:26
Carbazole	**340**	ug/Kg	8/27/2024 15:26
Chrysene	**6170**	ug/Kg	8/27/2024 15:26
Dibenz (a,h) anthracene	**1900**	ug/Kg	8/27/2024 15:26
Dibenzofuran	< 304	ug/Kg	8/27/2024 15:26
Diethyl phthalate	< 304	ug/Kg	8/27/2024 15:26
Dimethyl phthalate	< 304	ug/Kg	8/27/2024 15:26
Di-n-butyl phthalate	< 304	ug/Kg	8/27/2024 15:26
Di-n-octylphthalate	< 304	ug/Kg	8/27/2024 15:26
Fluoranthene	**6540**	ug/Kg	8/27/2024 15:26
Fluorene	< 304	ug/Kg	8/27/2024 15:26
Hexachlorobenzene	< 304	ug/Kg	8/27/2024 15:26
Hexachlorobutadiene	< 304	ug/Kg	8/27/2024 15:26
Hexachlorocyclopentadiene	< 1220	ug/Kg	8/27/2024 15:26
Hexachloroethane	< 304	ug/Kg	8/27/2024 15:26
Indeno (1,2,3-cd) pyrene	**5590**	ug/Kg	8/27/2024 15:26
Isophorone	< 304	ug/Kg	8/27/2024 15:26
Naphthalene	< 304	ug/Kg	8/27/2024 15:26
Nitrobenzene	< 304	ug/Kg	8/27/2024 15:26
N-Nitroso-di-n-propylamine	< 304	ug/Kg	8/27/2024 15:26
N-Nitrosodiphenylamine	< 304	ug/Kg	8/27/2024 15:26
Pentachlorophenol	< 609	ug/Kg	8/27/2024 15:26

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 243844

Client: **Ravi Engineering & Land Surveying, P.C.**

Project Reference: 631 Northland Ave

Sample Identifier: SS-9
Lab Sample ID: 243844-09 **Date Sampled:** 8/20/2024 12:00
Matrix: Soil **Date Received** 8/21/2024

Phenanthrene	**2290**	ug/Kg		8/27/2024 15:26
Phenol	< 304	ug/Kg		8/27/2024 15:26
Pyrene	**6970**	ug/Kg		8/27/2024 15:26

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
2,4,6-Tribromophenol	**65.4**	34.3 - 95.6		8/27/2024 15:26
2-Fluorobiphenyl	**65.7**	37.9 - 87.2		8/27/2024 15:26
2-Fluorophenol	**65.2**	34.4 - 80.5		8/27/2024 15:26
Nitrobenzene-d5	**62.4**	33.2 - 82.1		8/27/2024 15:26
Phenol-d5	**70.0**	36.4 - 85.4		8/27/2024 15:26
Terphenyl-d14	**73.1**	45.9 - 96		8/27/2024 15:26

Method Reference(s): EPA 8270D
EPA 3546
Preparation Date: 8/23/2024
Data File: B73435.D

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 243844

Client: **Ravi Engineering & Land Surveying, P.C.**

Project Reference: 631 Northland Ave

Sample Identifier:	SS-10		
Lab Sample ID:	243844-10	**Date Sampled:**	8/20/2024 12:10
Matrix:	Soil	**Date Received**	8/21/2024

Mercury

Analyte	Result	Units	Qualifier	Date Analyzed
Mercury	**0.0264**	mg/Kg		8/26/2024 16:09

Method Reference(s): EPA 7471B
Preparation Date: 8/26/2024
Data File: Hg240826B

TAL Metals (ICP)

Analyte	Result	Units	Qualifier	Date Analyzed
Aluminum	**3120**	mg/Kg		8/23/2024 14:25
Antimony	< 3.38	mg/Kg		8/23/2024 14:25
Arsenic	**8.24**	mg/Kg		8/23/2024 14:25
Barium	**33.4**	mg/Kg		8/23/2024 14:25
Beryllium	< 0.282	mg/Kg		8/23/2024 14:25
Cadmium	**0.895**	mg/Kg		8/23/2024 14:25
Calcium	**181000**	mg/Kg		8/23/2024 16:06
Chromium	**21.6**	mg/Kg		8/23/2024 14:25
Cobalt	< 2.82	mg/Kg		8/23/2024 14:25
Copper	**40.6**	mg/Kg		8/23/2024 14:25
Iron	**19300**	mg/Kg		8/23/2024 14:25
Lead	**33.4**	mg/Kg		8/23/2024 14:25
Magnesium	**8090**	mg/Kg		8/23/2024 14:25
Manganese	**533**	mg/Kg		8/23/2024 14:25
Nickel	**20.6**	mg/Kg		8/23/2024 14:25
Potassium	**677**	mg/Kg		8/23/2024 14:25
Selenium	< 1.13	mg/Kg		8/23/2024 14:25
Silver	< 0.563	mg/Kg		8/23/2024 14:25
Sodium	**328**	mg/Kg		8/23/2024 14:25
Thallium	< 1.41	mg/Kg		8/23/2024 14:25
Vanadium	**7.19**	mg/Kg		8/23/2024 14:25

Sample Identifier:	SS-10		
Lab Sample ID:	243844-10	**Date Sampled:**	8/20/2024 12:10
Matrix:	Soil	**Date Received**	8/21/2024

Zinc	**69.7**	mg/Kg		8/23/2024 14:25

Method Reference(s): EPA 6010C
EPA 3050B
Preparation Date: 8/22/2024
Data File: 240823A

PCBs

Analyte	Result	Units	Qualifier	Date Analyzed
PCB-1016	< 0.131	mg/Kg		8/23/2024 22:19
PCB-1221	< 0.131	mg/Kg		8/23/2024 22:19
PCB-1232	< 0.131	mg/Kg		8/23/2024 22:19
PCB-1242	< 0.131	mg/Kg		8/23/2024 22:19
PCB-1248	< 0.131	mg/Kg		8/23/2024 22:19
PCB-1254	**0.179**	mg/Kg		8/23/2024 22:19
PCB-1260	< 0.131	mg/Kg		8/23/2024 22:19
PCB-1262	< 0.131	mg/Kg		8/23/2024 22:19
PCB-1268	< 0.131	mg/Kg		8/23/2024 22:19

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
Tetrachloro-m-xylene	**86.9**	16.1 - 102		8/23/2024 22:19

Method Reference(s): EPA 8082A
EPA 3546
Preparation Date: 8/23/2024

Semi-Volatile Organics (Acid/Base Neutrals)

Analyte	Result	Units	Qualifier	Date Analyzed
1,1-Biphenyl	< 299	ug/Kg		8/27/2024 15:56
1,2,4,5-Tetrachlorobenzene	< 299	ug/Kg		8/27/2024 15:56
1,2,4-Trichlorobenzene	< 299	ug/Kg		8/27/2024 15:56
1,2-Dichlorobenzene	< 299	ug/Kg		8/27/2024 15:56
1,3-Dichlorobenzene	< 299	ug/Kg		8/27/2024 15:56
1,4-Dichlorobenzene	< 299	ug/Kg		8/27/2024 15:56
2,2-Oxybis (1-chloropropane)	< 299	ug/Kg		8/27/2024 15:56
2,3,4,6-Tetrachlorophenol	< 299	ug/Kg		8/27/2024 15:56

Lab Project ID: 243844

Client: **Ravi Engineering & Land Surveying, P.C.**

Project Reference: 631 Northland Ave

Sample Identifier:	SS-10		
Lab Sample ID:	243844-10	**Date Sampled:** 8/20/2024	12:10
Matrix:	Soil	**Date Received** 8/21/2024	

2,4,5-Trichlorophenol	< 299	ug/Kg	8/27/2024	15:56
2,4,6-Trichlorophenol	< 299	ug/Kg	8/27/2024	15:56
2,4-Dichlorophenol	< 299	ug/Kg	8/27/2024	15:56
2,4-Dimethylphenol	< 299	ug/Kg	8/27/2024	15:56
2,4-Dinitrophenol	< 1200	ug/Kg	8/27/2024	15:56
2,4-Dinitrotoluene	< 299	ug/Kg	8/27/2024	15:56
2,6-Dinitrotoluene	< 299	ug/Kg	8/27/2024	15:56
2-Chloronaphthalene	< 299	ug/Kg	8/27/2024	15:56
2-Chlorophenol	< 299	ug/Kg	8/27/2024	15:56
2-Methylnapthalene	**393**	ug/Kg	8/27/2024	15:56
2-Methylphenol	< 299	ug/Kg	8/27/2024	15:56
2-Nitroaniline	< 299	ug/Kg	8/27/2024	15:56
2-Nitrophenol	< 299	ug/Kg	8/27/2024	15:56
3&4-Methylphenol	< 299	ug/Kg	8/27/2024	15:56
3,3'-Dichlorobenzidine	< 299	ug/Kg	8/27/2024	15:56
3-Nitroaniline	< 299	ug/Kg	8/27/2024	15:56
4,6-Dinitro-2-methylphenol	< 599	ug/Kg	8/27/2024	15:56
4-Bromophenyl phenyl ether	< 299	ug/Kg	8/27/2024	15:56
4-Chloro-3-methylphenol	< 299	ug/Kg	8/27/2024	15:56
4-Chloroaniline	< 299	ug/Kg	8/27/2024	15:56
4-Chlorophenyl phenyl ether	< 299	ug/Kg	8/27/2024	15:56
4-Nitroaniline	< 299	ug/Kg	8/27/2024	15:56
4-Nitrophenol	< 299	ug/Kg	8/27/2024	15:56
Acenaphthene	< 299	ug/Kg	8/27/2024	15:56
Acenaphthylene	< 299	ug/Kg	8/27/2024	15:56
Acetophenone	< 299	ug/Kg	8/27/2024	15:56
Anthracene	< 299	ug/Kg	8/27/2024	15:56
Atrazine	< 299	ug/Kg	8/27/2024	15:56
Benzaldehyde	< 299	ug/Kg	8/27/2024	15:56
Benzo (a) anthracene	**4120**	ug/Kg	8/27/2024	15:56

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 243844

Client: **Ravi Engineering & Land Surveying, P.C.**

Project Reference: 631 Northland Ave

Sample Identifier:	SS-10		
Lab Sample ID:	243844-10	**Date Sampled:**	8/20/2024 12:10
Matrix:	Soil	**Date Received**	8/21/2024

Benzo (a) pyrene	**6590**	ug/Kg	8/27/2024 15:56
Benzo (b) fluoranthene	**6970**	ug/Kg	8/27/2024 15:56
Benzo (g,h,i) perylene	**4520**	ug/Kg	8/27/2024 15:56
Benzo (k) fluoranthene	**3650**	ug/Kg	8/27/2024 15:56
Bis (2-chloroethoxy) methane	< 299	ug/Kg	8/27/2024 15:56
Bis (2-chloroethyl) ether	< 299	ug/Kg	8/27/2024 15:56
Bis (2-ethylhexyl) phthalate	< 299	ug/Kg	8/27/2024 15:56
Butylbenzylphthalate	< 299	ug/Kg	8/27/2024 15:56
Caprolactam	< 299	ug/Kg	8/27/2024 15:56
Carbazole	< 299	ug/Kg	8/27/2024 15:56
Chrysene	**5360**	ug/Kg	8/27/2024 15:56
Dibenz (a,h) anthracene	**1570**	ug/Kg	8/27/2024 15:56
Dibenzofuran	< 299	ug/Kg	8/27/2024 15:56
Diethyl phthalate	< 299	ug/Kg	8/27/2024 15:56
Dimethyl phthalate	< 299	ug/Kg	8/27/2024 15:56
Di-n-butyl phthalate	< 299	ug/Kg	8/27/2024 15:56
Di-n-octylphthalate	< 299	ug/Kg	8/27/2024 15:56
Fluoranthene	**4620**	ug/Kg	8/27/2024 15:56
Fluorene	< 299	ug/Kg	8/27/2024 15:56
Hexachlorobenzene	< 299	ug/Kg	8/27/2024 15:56
Hexachlorobutadiene	< 299	ug/Kg	8/27/2024 15:56
Hexachlorocyclopentadiene	< 1200	ug/Kg	8/27/2024 15:56
Hexachloroethane	< 299	ug/Kg	8/27/2024 15:56
Indeno (1,2,3-cd) pyrene	**4750**	ug/Kg	8/27/2024 15:56
Isophorone	< 299	ug/Kg	8/27/2024 15:56
Naphthalene	**300**	ug/Kg	8/27/2024 15:56
Nitrobenzene	< 299	ug/Kg	8/27/2024 15:56
N-Nitroso-di-n-propylamine	< 299	ug/Kg	8/27/2024 15:56
N-Nitrosodiphenylamine	< 299	ug/Kg	8/27/2024 15:56
Pentachlorophenol	< 599	ug/Kg	8/27/2024 15:56

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 243844

Client: **Ravi Engineering & Land Surveying, P.C.**

Project Reference: 631 Northland Ave

Sample Identifier: SS-10
Lab Sample ID: 243844-10 **Date Sampled:** 8/20/2024 12:10
Matrix: Soil **Date Received** 8/21/2024

Phenanthrene	**1510**	ug/Kg		8/27/2024 15:56
Phenol	< 299	ug/Kg		8/27/2024 15:56
Pyrene	**5550**	ug/Kg		8/27/2024 15:56

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
2,4,6-Tribromophenol	**66.8**	34.3 - 95.6		8/27/2024 15:56
2-Fluorobiphenyl	**65.6**	37.9 - 87.2		8/27/2024 15:56
2-Fluorophenol	**69.4**	34.4 - 80.5		8/27/2024 15:56
Nitrobenzene-d5	**63.3**	33.2 - 82.1		8/27/2024 15:56
Phenol-d5	**73.5**	36.4 - 85.4		8/27/2024 15:56
Terphenyl-d14	**71.6**	45.9 - 96		8/27/2024 15:56

Method Reference(s): EPA 8270D
EPA 3546
Preparation Date: 8/23/2024
Data File: B73436.D

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 243844

Client: **Ravi Engineering & Land Surveying, P.C.**

Project Reference: 631 Northland Ave

Sample Identifier:	SS-11		
Lab Sample ID:	243844-11	**Date Sampled:**	8/20/2024 12:20
Matrix:	Soil	**Date Received**	8/21/2024

Mercury

Analyte	Result	Units	Qualifier	Date Analyzed
Mercury	**0.0683**	mg/Kg		8/26/2024 16:11

Method Reference(s): EPA 7471B
Preparation Date: 8/26/2024
Data File: Hg240826B

TAL Metals (ICP)

Analyte	Result	Units	Qualifier	Date Analyzed
Aluminum	**6480**	mg/Kg		8/23/2024 14:29
Antimony	< 3.18	mg/Kg		8/23/2024 14:29
Arsenic	**4.71**	mg/Kg		8/23/2024 14:29
Barium	**44.2**	mg/Kg		8/23/2024 14:29
Beryllium	< 0.265	mg/Kg		8/23/2024 14:29
Cadmium	**0.466**	mg/Kg		8/23/2024 14:29
Calcium	**179000**	mg/Kg		8/23/2024 16:16
Chromium	**9.80**	mg/Kg		8/23/2024 14:29
Cobalt	**4.05**	mg/Kg		8/23/2024 14:29
Copper	**16.8**	mg/Kg		8/23/2024 14:29
Iron	**10000**	mg/Kg		8/23/2024 14:29
Lead	**45.4**	mg/Kg		8/23/2024 14:29
Magnesium	**10200**	mg/Kg		8/23/2024 14:29
Manganese	**268**	mg/Kg		8/23/2024 14:29
Nickel	**11.2**	mg/Kg		8/23/2024 14:29
Potassium	**1730**	mg/Kg		8/23/2024 14:29
Selenium	< 1.06	mg/Kg		8/23/2024 14:29
Silver	< 0.530	mg/Kg		8/23/2024 14:29
Sodium	**240**	mg/Kg		8/23/2024 14:29
Thallium	< 1.32	mg/Kg		8/23/2024 14:29
Vanadium	**13.7**	mg/Kg		8/23/2024 14:29

Lab Project ID: 243844

Client: Ravi Engineering & Land Surveying, P.C.

Project Reference: 631 Northland Ave

Sample Identifier: SS-11
Lab Sample ID: 243844-11 **Date Sampled:** 8/20/2024 12:20
Matrix: Soil **Date Received** 8/21/2024

Zinc	**100**	mg/Kg		8/23/2024 14:29

Method Reference(s): EPA 6010C
EPA 3050B
Preparation Date: 8/22/2024
Data File: 240823A

PCBs

Analyte	Result	Units	Qualifier	Date Analyzed
PCB-1016	< 0.150	mg/Kg		8/23/2024 22:42
PCB-1221	< 0.150	mg/Kg		8/23/2024 22:42
PCB-1232	< 0.150	mg/Kg		8/23/2024 22:42
PCB-1242	< 0.150	mg/Kg		8/23/2024 22:42
PCB-1248	< 0.150	mg/Kg		8/23/2024 22:42
PCB-1254	< 0.150	mg/Kg		8/23/2024 22:42
PCB-1260	< 0.150	mg/Kg		8/23/2024 22:42
PCB-1262	< 0.150	mg/Kg		8/23/2024 22:42
PCB-1268	< 0.150	mg/Kg		8/23/2024 22:42

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
Tetrachloro-m-xylene	**80.5**	16.1 - 102		8/23/2024 22:42

Method Reference(s): EPA 8082A
EPA 3546
Preparation Date: 8/23/2024

Semi-Volatile Organics (Acid/Base Neutrals)

Analyte	Result	Units	Qualifier	Date Analyzed
1,1-Biphenyl	< 278	ug/Kg		8/27/2024 16:25
1,2,4,5-Tetrachlorobenzene	< 278	ug/Kg		8/27/2024 16:25
1,2,4-Trichlorobenzene	< 278	ug/Kg		8/27/2024 16:25
1,2-Dichlorobenzene	< 278	ug/Kg		8/27/2024 16:25
1,3-Dichlorobenzene	< 278	ug/Kg		8/27/2024 16:25
1,4-Dichlorobenzene	< 278	ug/Kg		8/27/2024 16:25
2,2-Oxybis (1-chloropropane)	< 278	ug/Kg		8/27/2024 16:25
2,3,4,6-Tetrachlorophenol	< 278	ug/Kg		8/27/2024 16:25

Client: **Ravi Engineering & Land Surveying, P.C.**

Project Reference: 631 Northland Ave

Sample Identifier: SS-11
Lab Sample ID: 243844-11 **Date Sampled:** 8/20/2024 12:20
Matrix: Soil **Date Received** 8/21/2024

2,4,5-Trichlorophenol	< 278	ug/Kg	8/27/2024 16:25
2,4,6-Trichlorophenol	< 278	ug/Kg	8/27/2024 16:25
2,4-Dichlorophenol	< 278	ug/Kg	8/27/2024 16:25
2,4-Dimethylphenol	< 278	ug/Kg	8/27/2024 16:25
2,4-Dinitrophenol	< 1110	ug/Kg	8/27/2024 16:25
2,4-Dinitrotoluene	< 278	ug/Kg	8/27/2024 16:25
2,6-Dinitrotoluene	< 278	ug/Kg	8/27/2024 16:25
2-Chloronaphthalene	< 278	ug/Kg	8/27/2024 16:25
2-Chlorophenol	< 278	ug/Kg	8/27/2024 16:25
2-Methylnapthalene	< 278	ug/Kg	8/27/2024 16:25
2-Methylphenol	< 278	ug/Kg	8/27/2024 16:25
2-Nitroaniline	< 278	ug/Kg	8/27/2024 16:25
2-Nitrophenol	< 278	ug/Kg	8/27/2024 16:25
3&4-Methylphenol	< 278	ug/Kg	8/27/2024 16:25
3,3'-Dichlorobenzidine	< 278	ug/Kg	8/27/2024 16:25
3-Nitroaniline	< 278	ug/Kg	8/27/2024 16:25
4,6-Dinitro-2-methylphenol	< 556	ug/Kg	8/27/2024 16:25
4-Bromophenyl phenyl ether	< 278	ug/Kg	8/27/2024 16:25
4-Chloro-3-methylphenol	< 278	ug/Kg	8/27/2024 16:25
4-Chloroaniline	< 278	ug/Kg	8/27/2024 16:25
4-Chlorophenyl phenyl ether	< 278	ug/Kg	8/27/2024 16:25
4-Nitroaniline	< 278	ug/Kg	8/27/2024 16:25
4-Nitrophenol	< 278	ug/Kg	8/27/2024 16:25
Acenaphthene	**290**	ug/Kg	8/27/2024 16:25
Acenaphthylene	< 278	ug/Kg	8/27/2024 16:25
Acetophenone	< 278	ug/Kg	8/27/2024 16:25
Anthracene	**641**	ug/Kg	8/27/2024 16:25
Atrazine	< 278	ug/Kg	8/27/2024 16:25
Benzaldehyde	< 278	ug/Kg	8/27/2024 16:25
Benzo (a) anthracene	**1330**	ug/Kg	8/27/2024 16:25

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 243844

Client: **Ravi Engineering & Land Surveying, P.C.**

Project Reference: 631 Northland Ave

Sample Identifier:	SS-11		
Lab Sample ID:	243844-11	**Date Sampled:**	8/20/2024 12:20
Matrix:	Soil	**Date Received**	8/21/2024

Benzo (a) pyrene	**1310**	ug/Kg	8/27/2024	16:25
Benzo (b) fluoranthene	**1380**	ug/Kg	8/27/2024	16:25
Benzo (g,h,i) perylene	**836**	ug/Kg	8/27/2024	16:25
Benzo (k) fluoranthene	**987**	ug/Kg	8/27/2024	16:25
Bis (2-chloroethoxy) methane	< 278	ug/Kg	8/27/2024	16:25
Bis (2-chloroethyl) ether	< 278	ug/Kg	8/27/2024	16:25
Bis (2-ethylhexyl) phthalate	< 278	ug/Kg	8/27/2024	16:25
Butylbenzylphthalate	< 278	ug/Kg	8/27/2024	16:25
Caprolactam	< 278	ug/Kg	8/27/2024	16:25
Carbazole	**418**	ug/Kg	8/27/2024	16:25
Chrysene	**1520**	ug/Kg	8/27/2024	16:25
Dibenz (a,h) anthracene	**307**	ug/Kg	8/27/2024	16:25
Dibenzofuran	< 278	ug/Kg	8/27/2024	16:25
Diethyl phthalate	< 278	ug/Kg	8/27/2024	16:25
Dimethyl phthalate	< 278	ug/Kg	8/27/2024	16:25
Di-n-butyl phthalate	< 278	ug/Kg	8/27/2024	16:25
Di-n-octylphthalate	< 278	ug/Kg	8/27/2024	16:25
Fluoranthene	**3270**	ug/Kg	8/27/2024	16:25
Fluorene	**339**	ug/Kg	8/27/2024	16:25
Hexachlorobenzene	< 278	ug/Kg	8/27/2024	16:25
Hexachlorobutadiene	< 278	ug/Kg	8/27/2024	16:25
Hexachlorocyclopentadiene	< 1110	ug/Kg	8/27/2024	16:25
Hexachloroethane	< 278	ug/Kg	8/27/2024	16:25
Indeno (1,2,3-cd) pyrene	**964**	ug/Kg	8/27/2024	16:25
Isophorone	< 278	ug/Kg	8/27/2024	16:25
Naphthalene	< 278	ug/Kg	8/27/2024	16:25
Nitrobenzene	< 278	ug/Kg	8/27/2024	16:25
N-Nitroso-di-n-propylamine	< 278	ug/Kg	8/27/2024	16:25
N-Nitrosodiphenylamine	< 278	ug/Kg	8/27/2024	16:25
Pentachlorophenol	< 556	ug/Kg	8/27/2024	16:25

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 243844

Client: **Ravi Engineering & Land Surveying, P.C.**

Project Reference: 631 Northland Ave

Sample Identifier: SS-11
Lab Sample ID: 243844-11 **Date Sampled:** 8/20/2024 12:20
Matrix: Soil **Date Received** 8/21/2024

Phenanthrene	**3140**	ug/Kg		8/27/2024 16:25
Phenol	< 278	ug/Kg		8/27/2024 16:25
Pyrene	**2720**	ug/Kg		8/27/2024 16:25

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
2,4,6-Tribromophenol	**62.0**	34.3 - 95.6		8/27/2024 16:25
2-Fluorobiphenyl	**60.3**	37.9 - 87.2		8/27/2024 16:25
2-Fluorophenol	**59.0**	34.4 - 80.5		8/27/2024 16:25
Nitrobenzene-d5	**56.4**	33.2 - 82.1		8/27/2024 16:25
Phenol-d5	**62.6**	36.4 - 85.4		8/27/2024 16:25
Terphenyl-d14	**67.8**	45.9 - 96		8/27/2024 16:25

Method Reference(s): EPA 8270D
EPA 3546
Preparation Date: 8/23/2024
Data File: B73437.D

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 243844

Client: Ravi Engineering & Land Surveying, P.C.

Project Reference: 631 Northland Ave

Sample Identifier:	SS-12		
Lab Sample ID:	243844-12	**Date Sampled:** 8/20/2024	12:25
Matrix:	Soil	**Date Received** 8/21/2024	

Mercury

Analyte	Result	Units	Qualifier	Date Analyzed
Mercury	**0.0279**	mg/Kg		8/26/2024 16:14

Method Reference(s): EPA 7471B
Preparation Date: 8/26/2024
Data File: Hg240826B

TAL Metals (ICP)

Analyte	Result	Units	Qualifier	Date Analyzed
Aluminum	**5180**	mg/Kg		8/23/2024 14:32
Antimony	< 3.19	mg/Kg		8/23/2024 14:32
Arsenic	**6.32**	mg/Kg		8/23/2024 14:32
Barium	**48.8**	mg/Kg		8/23/2024 14:32
Beryllium	**0.421**	mg/Kg		8/23/2024 14:32
Cadmium	**0.335**	mg/Kg		8/23/2024 14:32
Calcium	**169000**	mg/Kg		8/23/2024 16:19
Chromium	**9.48**	mg/Kg		8/23/2024 14:32
Cobalt	< 2.66	mg/Kg		8/23/2024 14:32
Copper	**16.3**	mg/Kg		8/23/2024 14:32
Iron	**6170**	mg/Kg		8/23/2024 14:32
Lead	**34.7**	mg/Kg		8/23/2024 14:32
Magnesium	**8340**	mg/Kg		8/23/2024 14:32
Manganese	**651**	mg/Kg		8/23/2024 16:19
Nickel	**7.42**	mg/Kg		8/23/2024 14:32
Potassium	**909**	mg/Kg		8/23/2024 14:32
Selenium	< 1.06	mg/Kg		8/23/2024 14:32
Silver	< 0.532	mg/Kg		8/23/2024 14:32
Sodium	**270**	mg/Kg		8/23/2024 14:32
Thallium	< 1.33	mg/Kg		8/23/2024 14:32
Vanadium	**6.94**	mg/Kg		8/23/2024 14:32

Sample Identifier: SS-12
Lab Sample ID: 243844-12 **Date Sampled:** 8/20/2024 12:25
Matrix: Soil **Date Received** 8/21/2024

Zinc	**37.8**	mg/Kg		8/23/2024 14:32

Method Reference(s): EPA 6010C, EPA 3050B
Preparation Date: 8/22/2024
Data File: 240823A

PCBs

Analyte	Result	Units	Qualifier	Date Analyzed
PCB-1016	< 0.164	mg/Kg		8/23/2024 23:05
PCB-1221	< 0.164	mg/Kg		8/23/2024 23:05
PCB-1232	< 0.164	mg/Kg		8/23/2024 23:05
PCB-1242	< 0.164	mg/Kg		8/23/2024 23:05
PCB-1248	< 0.164	mg/Kg		8/23/2024 23:05
PCB-1254	**0.186**	mg/Kg		8/23/2024 23:05
PCB-1260	< 0.164	mg/Kg		8/23/2024 23:05
PCB-1262	< 0.164	mg/Kg		8/23/2024 23:05
PCB-1268	< 0.164	mg/Kg		8/23/2024 23:05

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
Tetrachloro-m-xylene	**87.5**	16.1 - 102		8/23/2024 23:05

Method Reference(s): EPA 8082A, EPA 3546
Preparation Date: 8/23/2024

Semi-Volatile Organics (Acid/Base Neutrals)

Analyte	Result	Units	Qualifier	Date Analyzed
1,1-Biphenyl	< 304	ug/Kg		8/27/2024 16:54
1,2,4,5-Tetrachlorobenzene	< 304	ug/Kg		8/27/2024 16:54
1,2,4-Trichlorobenzene	< 304	ug/Kg		8/27/2024 16:54
1,2-Dichlorobenzene	< 304	ug/Kg		8/27/2024 16:54
1,3-Dichlorobenzene	< 304	ug/Kg		8/27/2024 16:54
1,4-Dichlorobenzene	< 304	ug/Kg		8/27/2024 16:54
2,2-Oxybis (1-chloropropane)	< 304	ug/Kg		8/27/2024 16:54
2,3,4,6-Tetrachlorophenol	< 304	ug/Kg		8/27/2024 16:54

Client: **Ravi Engineering & Land Surveying, P.C.**

Project Reference: 631 Northland Ave

Sample Identifier: SS-12
Lab Sample ID: 243844-12 **Date Sampled:** 8/20/2024 12:25
Matrix: Soil **Date Received** 8/21/2024

2,4,5-Trichlorophenol	< 304	ug/Kg	8/27/2024 16:54
2,4,6-Trichlorophenol	< 304	ug/Kg	8/27/2024 16:54
2,4-Dichlorophenol	< 304	ug/Kg	8/27/2024 16:54
2,4-Dimethylphenol	< 304	ug/Kg	8/27/2024 16:54
2,4-Dinitrophenol	< 1220	ug/Kg	8/27/2024 16:54
2,4-Dinitrotoluene	< 304	ug/Kg	8/27/2024 16:54
2,6-Dinitrotoluene	< 304	ug/Kg	8/27/2024 16:54
2-Chloronaphthalene	< 304	ug/Kg	8/27/2024 16:54
2-Chlorophenol	< 304	ug/Kg	8/27/2024 16:54
2-Methylnapthalene	< 304	ug/Kg	8/27/2024 16:54
2-Methylphenol	< 304	ug/Kg	8/27/2024 16:54
2-Nitroaniline	< 304	ug/Kg	8/27/2024 16:54
2-Nitrophenol	< 304	ug/Kg	8/27/2024 16:54
3&4-Methylphenol	< 304	ug/Kg	8/27/2024 16:54
3,3'-Dichlorobenzidine	< 304	ug/Kg	8/27/2024 16:54
3-Nitroaniline	< 304	ug/Kg	8/27/2024 16:54
4,6-Dinitro-2-methylphenol	< 609	ug/Kg	8/27/2024 16:54
4-Bromophenyl phenyl ether	< 304	ug/Kg	8/27/2024 16:54
4-Chloro-3-methylphenol	< 304	ug/Kg	8/27/2024 16:54
4-Chloroaniline	< 304	ug/Kg	8/27/2024 16:54
4-Chlorophenyl phenyl ether	< 304	ug/Kg	8/27/2024 16:54
4-Nitroaniline	< 304	ug/Kg	8/27/2024 16:54
4-Nitrophenol	< 304	ug/Kg	8/27/2024 16:54
Acenaphthene	< 304	ug/Kg	8/27/2024 16:54
Acenaphthylene	< 304	ug/Kg	8/27/2024 16:54
Acetophenone	< 304	ug/Kg	8/27/2024 16:54
Anthracene	< 304	ug/Kg	8/27/2024 16:54
Atrazine	< 304	ug/Kg	8/27/2024 16:54
Benzaldehyde	< 304	ug/Kg	8/27/2024 16:54
Benzo (a) anthracene	**447**	ug/Kg	8/27/2024 16:54

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 243844

Client: **Ravi Engineering & Land Surveying, P.C.**

Project Reference: 631 Northland Ave

Sample Identifier:	SS-12		
Lab Sample ID:	243844-12	**Date Sampled:** 8/20/2024	12:25
Matrix:	Soil	**Date Received** 8/21/2024	

Benzo (a) pyrene	**717**	ug/Kg	8/27/2024	16:54
Benzo (b) fluoranthene	**597**	ug/Kg	8/27/2024	16:54
Benzo (g,h,i) perylene	**484**	ug/Kg	8/27/2024	16:54
Benzo (k) fluoranthene	**553**	ug/Kg	8/27/2024	16:54
Bis (2-chloroethoxy) methane	< 304	ug/Kg	8/27/2024	16:54
Bis (2-chloroethyl) ether	< 304	ug/Kg	8/27/2024	16:54
Bis (2-ethylhexyl) phthalate	< 304	ug/Kg	8/27/2024	16:54
Butylbenzylphthalate	< 304	ug/Kg	8/27/2024	16:54
Caprolactam	< 304	ug/Kg	8/27/2024	16:54
Carbazole	< 304	ug/Kg	8/27/2024	16:54
Chrysene	**554**	ug/Kg	8/27/2024	16:54
Dibenz (a,h) anthracene	< 304	ug/Kg	8/27/2024	16:54
Dibenzofuran	< 304	ug/Kg	8/27/2024	16:54
Diethyl phthalate	< 304	ug/Kg	8/27/2024	16:54
Dimethyl phthalate	< 304	ug/Kg	8/27/2024	16:54
Di-n-butyl phthalate	< 304	ug/Kg	8/27/2024	16:54
Di-n-octylphthalate	< 304	ug/Kg	8/27/2024	16:54
Fluoranthene	**580**	ug/Kg	8/27/2024	16:54
Fluorene	< 304	ug/Kg	8/27/2024	16:54
Hexachlorobenzene	< 304	ug/Kg	8/27/2024	16:54
Hexachlorobutadiene	< 304	ug/Kg	8/27/2024	16:54
Hexachlorocyclopentadiene	< 1220	ug/Kg	8/27/2024	16:54
Hexachloroethane	< 304	ug/Kg	8/27/2024	16:54
Indeno (1,2,3-cd) pyrene	**504**	ug/Kg	8/27/2024	16:54
Isophorone	< 304	ug/Kg	8/27/2024	16:54
Naphthalene	< 304	ug/Kg	8/27/2024	16:54
Nitrobenzene	< 304	ug/Kg	8/27/2024	16:54
N-Nitroso-di-n-propylamine	< 304	ug/Kg	8/27/2024	16:54
N-Nitrosodiphenylamine	< 304	ug/Kg	8/27/2024	16:54
Pentachlorophenol	< 609	ug/Kg	8/27/2024	16:54

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 243844

Client: **Ravi Engineering & Land Surveying, P.C.**

Project Reference: 631 Northland Ave

Sample Identifier: SS-12
Lab Sample ID: 243844-12 **Date Sampled:** 8/20/2024 12:25
Matrix: Soil **Date Received** 8/21/2024

Phenanthrene	< 304	ug/Kg		8/27/2024 16:54
Phenol	< 304	ug/Kg		8/27/2024 16:54
Pyrene	**606**	ug/Kg		8/27/2024 16:54

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
2,4,6-Tribromophenol	**68.1**	34.3 - 95.6		8/27/2024 16:54
2-Fluorobiphenyl	**66.5**	37.9 - 87.2		8/27/2024 16:54
2-Fluorophenol	**69.6**	34.4 - 80.5		8/27/2024 16:54
Nitrobenzene-d5	**61.0**	33.2 - 82.1		8/27/2024 16:54
Phenol-d5	**74.7**	36.4 - 85.4		8/27/2024 16:54
Terphenyl-d14	**73.5**	45.9 - 96		8/27/2024 16:54

Method Reference(s): EPA 8270D
EPA 3546
Preparation Date: 8/23/2024
Data File: B73438.D

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 243844

Client: **Ravi Engineering & Land Surveying, P.C.**

Project Reference: 631 Northland Ave

Sample Identifier:	SS-13		
Lab Sample ID:	243844-13	**Date Sampled:**	8/20/2024 12:30
Matrix:	Soil	**Date Received**	8/21/2024

Mercury

Analyte	Result	Units	Qualifier	Date Analyzed
Mercury	**0.0206**	mg/Kg		8/26/2024 16:16

Method Reference(s): EPA 7471B
Preparation Date: 8/26/2024
Data File: Hg240826B

TAL Metals (ICP)

Analyte	Result	Units	Qualifier	Date Analyzed
Aluminum	**1740**	mg/Kg		8/23/2024 14:35
Antimony	< 2.91	mg/Kg		8/23/2024 14:35
Arsenic	**2.37**	mg/Kg		8/23/2024 14:35
Barium	**6.20**	mg/Kg		8/23/2024 14:35
Beryllium	< 0.243	mg/Kg		8/23/2024 14:35
Cadmium	< 0.243	mg/Kg		8/23/2024 14:35
Calcium	**136000**	mg/Kg		8/23/2024 16:22
Chromium	**5.42**	mg/Kg		8/23/2024 14:35
Cobalt	< 2.43	mg/Kg		8/23/2024 14:35
Copper	**7.20**	mg/Kg		8/23/2024 14:35
Iron	**2940**	mg/Kg		8/23/2024 14:35
Lead	**8.32**	mg/Kg		8/23/2024 14:35
Magnesium	**3620**	mg/Kg		8/23/2024 14:35
Manganese	**91.5**	mg/Kg		8/23/2024 14:35
Nickel	**7.14**	mg/Kg		8/23/2024 14:35
Potassium	**836**	mg/Kg		8/23/2024 14:35
Selenium	< 0.971	mg/Kg		8/23/2024 14:35
Silver	< 0.485	mg/Kg		8/23/2024 14:35
Sodium	**189**	mg/Kg		8/23/2024 14:35
Thallium	< 1.21	mg/Kg		8/23/2024 14:35
Vanadium	**6.55**	mg/Kg		8/23/2024 14:35

Sample Identifier: SS-13
Lab Sample ID: 243844-13 **Date Sampled:** 8/20/2024 12:30
Matrix: Soil **Date Received** 8/21/2024

Zinc	**35.5**	mg/Kg		8/23/2024 14:35

Method Reference(s): EPA 6010C
EPA 3050B
Preparation Date: 8/22/2024
Data File: 240823A

PCBs

Analyte	Result	Units	Qualifier	Date Analyzed
PCB-1016	< 0.163	mg/Kg		8/24/2024 02:10
PCB-1221	< 0.163	mg/Kg		8/24/2024 02:10
PCB-1232	< 0.163	mg/Kg		8/24/2024 02:10
PCB-1242	< 0.163	mg/Kg		8/24/2024 02:10
PCB-1248	< 0.163	mg/Kg		8/24/2024 02:10
PCB-1254	< 0.163	mg/Kg		8/24/2024 02:10
PCB-1260	< 0.163	mg/Kg		8/24/2024 02:10
PCB-1262	< 0.163	mg/Kg		8/24/2024 02:10
PCB-1268	< 0.163	mg/Kg		8/24/2024 02:10

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
Tetrachloro-m-xylene	**85.4**	16.1 - 102		8/24/2024 02:10

Method Reference(s): EPA 8082A
EPA 3546
Preparation Date: 8/23/2024

Semi-Volatile Organics (Acid/Base Neutrals)

Analyte	Result	Units	Qualifier	Date Analyzed
1,1-Biphenyl	< 284	ug/Kg		8/27/2024 17:24
1,2,4,5-Tetrachlorobenzene	< 284	ug/Kg		8/27/2024 17:24
1,2,4-Trichlorobenzene	< 284	ug/Kg		8/27/2024 17:24
1,2-Dichlorobenzene	< 284	ug/Kg		8/27/2024 17:24
1,3-Dichlorobenzene	< 284	ug/Kg		8/27/2024 17:24
1,4-Dichlorobenzene	< 284	ug/Kg		8/27/2024 17:24
2,2-Oxybis (1-chloropropane)	< 284	ug/Kg		8/27/2024 17:24
2,3,4,6-Tetrachlorophenol	< 284	ug/Kg		8/27/2024 17:24

Sample Identifier: SS-13
Lab Sample ID: 243844-13 **Date Sampled:** 8/20/2024 12:30
Matrix: Soil **Date Received** 8/21/2024

2,4,5-Trichlorophenol	< 284	ug/Kg	8/27/2024 17:24
2,4,6-Trichlorophenol	< 284	ug/Kg	8/27/2024 17:24
2,4-Dichlorophenol	< 284	ug/Kg	8/27/2024 17:24
2,4-Dimethylphenol	< 284	ug/Kg	8/27/2024 17:24
2,4-Dinitrophenol	< 1140	ug/Kg	8/27/2024 17:24
2,4-Dinitrotoluene	< 284	ug/Kg	8/27/2024 17:24
2,6-Dinitrotoluene	< 284	ug/Kg	8/27/2024 17:24
2-Chloronaphthalene	< 284	ug/Kg	8/27/2024 17:24
2-Chlorophenol	< 284	ug/Kg	8/27/2024 17:24
2-Methylnapthalene	< 284	ug/Kg	8/27/2024 17:24
2-Methylphenol	< 284	ug/Kg	8/27/2024 17:24
2-Nitroaniline	< 284	ug/Kg	8/27/2024 17:24
2-Nitrophenol	< 284	ug/Kg	8/27/2024 17:24
3&4-Methylphenol	< 284	ug/Kg	8/27/2024 17:24
3,3'-Dichlorobenzidine	< 284	ug/Kg	8/27/2024 17:24
3-Nitroaniline	< 284	ug/Kg	8/27/2024 17:24
4,6-Dinitro-2-methylphenol	< 569	ug/Kg	8/27/2024 17:24
4-Bromophenyl phenyl ether	< 284	ug/Kg	8/27/2024 17:24
4-Chloro-3-methylphenol	< 284	ug/Kg	8/27/2024 17:24
4-Chloroaniline	< 284	ug/Kg	8/27/2024 17:24
4-Chlorophenyl phenyl ether	< 284	ug/Kg	8/27/2024 17:24
4-Nitroaniline	< 284	ug/Kg	8/27/2024 17:24
4-Nitrophenol	< 284	ug/Kg	8/27/2024 17:24
Acenaphthene	< 284	ug/Kg	8/27/2024 17:24
Acenaphthylene	< 284	ug/Kg	8/27/2024 17:24
Acetophenone	< 284	ug/Kg	8/27/2024 17:24
Anthracene	< 284	ug/Kg	8/27/2024 17:24
Atrazine	< 284	ug/Kg	8/27/2024 17:24
Benzaldehyde	< 284	ug/Kg	8/27/2024 17:24
Benzo (a) anthracene	< 284	ug/Kg	8/27/2024 17:24

Sample Identifier: SS-13
Lab Sample ID: 243844-13 **Date Sampled:** 8/20/2024 12:30
Matrix: Soil **Date Received** 8/21/2024

Benzo (a) pyrene	< 284	ug/Kg	8/27/2024 17:24
Benzo (b) fluoranthene	< 284	ug/Kg	8/27/2024 17:24
Benzo (g,h,i) perylene	< 284	ug/Kg	8/27/2024 17:24
Benzo (k) fluoranthene	< 284	ug/Kg	8/27/2024 17:24
Bis (2-chloroethoxy) methane	< 284	ug/Kg	8/27/2024 17:24
Bis (2-chloroethyl) ether	< 284	ug/Kg	8/27/2024 17:24
Bis (2-ethylhexyl) phthalate	< 284	ug/Kg	8/27/2024 17:24
Butylbenzylphthalate	< 284	ug/Kg	8/27/2024 17:24
Caprolactam	< 284	ug/Kg	8/27/2024 17:24
Carbazole	< 284	ug/Kg	8/27/2024 17:24
Chrysene	< 284	ug/Kg	8/27/2024 17:24
Dibenz (a,h) anthracene	< 284	ug/Kg	8/27/2024 17:24
Dibenzofuran	< 284	ug/Kg	8/27/2024 17:24
Diethyl phthalate	< 284	ug/Kg	8/27/2024 17:24
Dimethyl phthalate	< 284	ug/Kg	8/27/2024 17:24
Di-n-butyl phthalate	< 284	ug/Kg	8/27/2024 17:24
Di-n-octylphthalate	< 284	ug/Kg	8/27/2024 17:24
Fluoranthene	< 284	ug/Kg	8/27/2024 17:24
Fluorene	< 284	ug/Kg	8/27/2024 17:24
Hexachlorobenzene	< 284	ug/Kg	8/27/2024 17:24
Hexachlorobutadiene	< 284	ug/Kg	8/27/2024 17:24
Hexachlorocyclopentadiene	< 1140	ug/Kg	8/27/2024 17:24
Hexachloroethane	< 284	ug/Kg	8/27/2024 17:24
Indeno (1,2,3-cd) pyrene	< 284	ug/Kg	8/27/2024 17:24
Isophorone	< 284	ug/Kg	8/27/2024 17:24
Naphthalene	< 284	ug/Kg	8/27/2024 17:24
Nitrobenzene	< 284	ug/Kg	8/27/2024 17:24
N-Nitroso-di-n-propylamine	< 284	ug/Kg	8/27/2024 17:24
N-Nitrosodiphenylamine	< 284	ug/Kg	8/27/2024 17:24
Pentachlorophenol	< 569	ug/Kg	8/27/2024 17:24

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 243844

Client: **Ravi Engineering & Land Surveying, P.C.**

Project Reference: 631 Northland Ave

Sample Identifier:	SS-13		
Lab Sample ID:	243844-13	**Date Sampled:**	8/20/2024 12:30
Matrix:	Soil	**Date Received**	8/21/2024

Phenanthrene	< 284	ug/Kg			8/27/2024 17:24
Phenol	< 284	ug/Kg			8/27/2024 17:24
Pyrene	< 284	ug/Kg			8/27/2024 17:24

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
2,4,6-Tribromophenol	**77.1**	34.3 - 95.6		8/27/2024 17:24
2-Fluorobiphenyl	**71.4**	37.9 - 87.2		8/27/2024 17:24
2-Fluorophenol	**71.9**	34.4 - 80.5		8/27/2024 17:24
Nitrobenzene-d5	**67.3**	33.2 - 82.1		8/27/2024 17:24
Phenol-d5	**77.2**	36.4 - 85.4		8/27/2024 17:24
Terphenyl-d14	**79.0**	45.9 - 96		8/27/2024 17:24

Method Reference(s): EPA 8270D
EPA 3546
Preparation Date: 8/23/2024
Data File: B73439.D

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 243844

Client: **Ravi Engineering & Land Surveying, P.C.**

Project Reference: 631 Northland Ave

Sample Identifier:	SS-14		
Lab Sample ID:	243844-14	**Date Sampled:**	8/20/2024 12:40
Matrix:	Soil	**Date Received**	8/21/2024

Mercury

Analyte	Result	Units	Qualifier	Date Analyzed
Mercury	**0.0165**	mg/Kg		8/26/2024 16:18

Method Reference(s): EPA 7471B
Preparation Date: 8/26/2024
Data File: Hg240826B

TAL Metals (ICP)

Analyte	Result	Units	Qualifier	Date Analyzed
Aluminum	**4810**	mg/Kg		8/23/2024 14:39
Antimony	< 3.01	mg/Kg		8/23/2024 14:39
Arsenic	**8.62**	mg/Kg		8/23/2024 14:39
Barium	**21.0**	mg/Kg		8/23/2024 14:39
Beryllium	< 0.251	mg/Kg		8/23/2024 14:39
Cadmium	**0.281**	mg/Kg		8/23/2024 14:39
Calcium	**207000**	mg/Kg		8/23/2024 16:25
Chromium	**9.81**	mg/Kg		8/23/2024 14:39
Cobalt	< 2.51	mg/Kg		8/23/2024 14:39
Copper	**10.4**	mg/Kg		8/23/2024 14:39
Iron	**5200**	mg/Kg		8/23/2024 14:39
Lead	**12.0**	mg/Kg		8/23/2024 14:39
Magnesium	**8450**	mg/Kg		8/23/2024 14:39
Manganese	**96.8**	mg/Kg		8/23/2024 14:39
Nickel	**9.99**	mg/Kg		8/23/2024 14:39
Potassium	**2540**	mg/Kg		8/23/2024 14:39
Selenium	< 1.00	mg/Kg		8/23/2024 14:39
Silver	< 0.502	mg/Kg		8/23/2024 14:39
Sodium	**265**	mg/Kg		8/23/2024 14:39
Thallium	< 1.26	mg/Kg		8/23/2024 14:39
Vanadium	**12.2**	mg/Kg		8/23/2024 14:39

Sample Identifier: SS-14
Lab Sample ID: 243844-14 **Date Sampled:** 8/20/2024 12:40
Matrix: Soil **Date Received** 8/21/2024

Zinc	**34.7**	mg/Kg		8/23/2024 14:39

Method Reference(s): EPA 6010C
EPA 3050B
Preparation Date: 8/22/2024
Data File: 240823A

PCBs

Analyte	Result	Units	Qualifier	Date Analyzed
PCB-1016	< 0.131	mg/Kg		8/24/2024 02:33
PCB-1221	< 0.131	mg/Kg		8/24/2024 02:33
PCB-1232	< 0.131	mg/Kg		8/24/2024 02:33
PCB-1242	< 0.131	mg/Kg		8/24/2024 02:33
PCB-1248	< 0.131	mg/Kg		8/24/2024 02:33
PCB-1254	< 0.131	mg/Kg		8/24/2024 02:33
PCB-1260	< 0.131	mg/Kg		8/24/2024 02:33
PCB-1262	< 0.131	mg/Kg		8/24/2024 02:33
PCB-1268	< 0.131	mg/Kg		8/24/2024 02:33

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
Tetrachloro-m-xylene	**80.4**	16.1 - 102		8/24/2024 02:33

Method Reference(s): EPA 8082A
EPA 3546
Preparation Date: 8/23/2024

Semi-Volatile Organics (Acid/Base Neutrals)

Analyte	Result	Units	Qualifier	Date Analyzed
1,1-Biphenyl	< 295	ug/Kg		8/27/2024 17:53
1,2,4,5-Tetrachlorobenzene	< 295	ug/Kg		8/27/2024 17:53
1,2,4-Trichlorobenzene	< 295	ug/Kg		8/27/2024 17:53
1,2-Dichlorobenzene	< 295	ug/Kg		8/27/2024 17:53
1,3-Dichlorobenzene	< 295	ug/Kg		8/27/2024 17:53
1,4-Dichlorobenzene	< 295	ug/Kg		8/27/2024 17:53
2,2-Oxybis (1-chloropropane)	< 295	ug/Kg		8/27/2024 17:53
2,3,4,6-Tetrachlorophenol	< 295	ug/Kg		8/27/2024 17:53

Lab Project ID: 243844

Client: Ravi Engineering & Land Surveying, P.C.

Project Reference: 631 Northland Ave

Sample Identifier: SS-14
Lab Sample ID: 243844-14 **Date Sampled:** 8/20/2024 12:40
Matrix: Soil **Date Received** 8/21/2024

2,4,5-Trichlorophenol	< 295	ug/Kg	8/27/2024	17:53
2,4,6-Trichlorophenol	< 295	ug/Kg	8/27/2024	17:53
2,4-Dichlorophenol	< 295	ug/Kg	8/27/2024	17:53
2,4-Dimethylphenol	< 295	ug/Kg	8/27/2024	17:53
2,4-Dinitrophenol	< 1180	ug/Kg	8/27/2024	17:53
2,4-Dinitrotoluene	< 295	ug/Kg	8/27/2024	17:53
2,6-Dinitrotoluene	< 295	ug/Kg	8/27/2024	17:53
2-Chloronaphthalene	< 295	ug/Kg	8/27/2024	17:53
2-Chlorophenol	< 295	ug/Kg	8/27/2024	17:53
2-Methylnapthalene	< 295	ug/Kg	8/27/2024	17:53
2-Methylphenol	< 295	ug/Kg	8/27/2024	17:53
2-Nitroaniline	< 295	ug/Kg	8/27/2024	17:53
2-Nitrophenol	< 295	ug/Kg	8/27/2024	17:53
3&4-Methylphenol	< 295	ug/Kg	8/27/2024	17:53
3,3'-Dichlorobenzidine	< 295	ug/Kg	8/27/2024	17:53
3-Nitroaniline	< 295	ug/Kg	8/27/2024	17:53
4,6-Dinitro-2-methylphenol	< 590	ug/Kg	8/27/2024	17:53
4-Bromophenyl phenyl ether	< 295	ug/Kg	8/27/2024	17:53
4-Chloro-3-methylphenol	< 295	ug/Kg	8/27/2024	17:53
4-Chloroaniline	< 295	ug/Kg	8/27/2024	17:53
4-Chlorophenyl phenyl ether	< 295	ug/Kg	8/27/2024	17:53
4-Nitroaniline	< 295	ug/Kg	8/27/2024	17:53
4-Nitrophenol	< 295	ug/Kg	8/27/2024	17:53
Acenaphthene	< 295	ug/Kg	8/27/2024	17:53
Acenaphthylene	< 295	ug/Kg	8/27/2024	17:53
Acetophenone	< 295	ug/Kg	8/27/2024	17:53
Anthracene	< 295	ug/Kg	8/27/2024	17:53
Atrazine	< 295	ug/Kg	8/27/2024	17:53
Benzaldehyde	< 295	ug/Kg	8/27/2024	17:53
Benzo (a) anthracene	**592**	ug/Kg	8/27/2024	17:53

Sample Identifier:	SS-14		
Lab Sample ID:	243844-14	**Date Sampled:** 8/20/2024	12:40
Matrix:	Soil	**Date Received** 8/21/2024	

Benzo (a) pyrene	**1060**	ug/Kg	8/27/2024	17:53
Benzo (b) fluoranthene	**997**	ug/Kg	8/27/2024	17:53
Benzo (g,h,i) perylene	**754**	ug/Kg	8/27/2024	17:53
Benzo (k) fluoranthene	**697**	ug/Kg	8/27/2024	17:53
Bis (2-chloroethoxy) methane	< 295	ug/Kg	8/27/2024	17:53
Bis (2-chloroethyl) ether	< 295	ug/Kg	8/27/2024	17:53
Bis (2-ethylhexyl) phthalate	< 295	ug/Kg	8/27/2024	17:53
Butylbenzylphthalate	< 295	ug/Kg	8/27/2024	17:53
Caprolactam	< 295	ug/Kg	8/27/2024	17:53
Carbazole	< 295	ug/Kg	8/27/2024	17:53
Chrysene	**803**	ug/Kg	8/27/2024	17:53
Dibenz (a,h) anthracene	< 295	ug/Kg	8/27/2024	17:53
Dibenzofuran	< 295	ug/Kg	8/27/2024	17:53
Diethyl phthalate	< 295	ug/Kg	8/27/2024	17:53
Dimethyl phthalate	< 295	ug/Kg	8/27/2024	17:53
Di-n-butyl phthalate	< 295	ug/Kg	8/27/2024	17:53
Di-n-octylphthalate	< 295	ug/Kg	8/27/2024	17:53
Fluoranthene	**713**	ug/Kg	8/27/2024	17:53
Fluorene	< 295	ug/Kg	8/27/2024	17:53
Hexachlorobenzene	< 295	ug/Kg	8/27/2024	17:53
Hexachlorobutadiene	< 295	ug/Kg	8/27/2024	17:53
Hexachlorocyclopentadiene	< 1180	ug/Kg	8/27/2024	17:53
Hexachloroethane	< 295	ug/Kg	8/27/2024	17:53
Indeno (1,2,3-cd) pyrene	**767**	ug/Kg	8/27/2024	17:53
Isophorone	< 295	ug/Kg	8/27/2024	17:53
Naphthalene	< 295	ug/Kg	8/27/2024	17:53
Nitrobenzene	< 295	ug/Kg	8/27/2024	17:53
N-Nitroso-di-n-propylamine	< 295	ug/Kg	8/27/2024	17:53
N-Nitrosodiphenylamine	< 295	ug/Kg	8/27/2024	17:53
Pentachlorophenol	< 590	ug/Kg	8/27/2024	17:53

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 243844

Client: **Ravi Engineering & Land Surveying, P.C.**

Project Reference: 631 Northland Ave

Sample Identifier: SS-14
Lab Sample ID: 243844-14 **Date Sampled:** 8/20/2024 12:40
Matrix: Soil **Date Received** 8/21/2024

Phenanthrene	< 295	ug/Kg		8/27/2024 17:53
Phenol	< 295	ug/Kg		8/27/2024 17:53
Pyrene	**779**	ug/Kg		8/27/2024 17:53

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
2,4,6-Tribromophenol	**68.4**	34.3 - 95.6		8/27/2024 17:53
2-Fluorobiphenyl	**67.0**	37.9 - 87.2		8/27/2024 17:53
2-Fluorophenol	**65.5**	34.4 - 80.5		8/27/2024 17:53
Nitrobenzene-d5	**62.1**	33.2 - 82.1		8/27/2024 17:53
Phenol-d5	**70.7**	36.4 - 85.4		8/27/2024 17:53
Terphenyl-d14	**73.8**	45.9 - 96		8/27/2024 17:53

Method Reference(s): EPA 8270D
EPA 3546
Preparation Date: 8/23/2024
Data File: B73440.D

PARADIGM ENVIRONMENTAL SERVICES, INC.

Method Blank Report

Client: **Ravi Engineering & Land Surveying, P.C.**

Project Reference: 631 Northland Ave

Lab Project ID: 243844

Matrix: Soil

Semi-Volatile Organics (Acid/Base Neutrals)

Analyte	Result	Units	Qualifier	Date Analyzed	
1,1-Biphenyl	<282	ug/Kg		8/26/2024	18:57
1,2,4,5-Tetrachlorobenzene	<282	ug/Kg		8/26/2024	18:57
1,2,4-Trichlorobenzene	<282	ug/Kg		8/26/2024	18:57
1,2-Dichlorobenzene	<282	ug/Kg		8/26/2024	18:57
1,3-Dichlorobenzene	<282	ug/Kg		8/26/2024	18:57
1,4-Dichlorobenzene	<282	ug/Kg		8/26/2024	18:57
2,2-Oxybis (1-chloropropane)	<282	ug/Kg		8/26/2024	18:57
2,3,4,6-Tetrachlorophenol	<282	ug/Kg		8/26/2024	18:57
2,4,5-Trichlorophenol	<282	ug/Kg		8/26/2024	18:57
2,4,6-Trichlorophenol	<282	ug/Kg		8/26/2024	18:57
2,4-Dichlorophenol	<282	ug/Kg		8/26/2024	18:57
2,4-Dimethylphenol	<282	ug/Kg		8/26/2024	18:57
2,4-Dinitrophenol	<1130	ug/Kg		8/26/2024	18:57
2,4-Dinitrotoluene	<282	ug/Kg		8/26/2024	18:57
2,6-Dinitrotoluene	<282	ug/Kg		8/26/2024	18:57
2-Chloronaphthalene	<282	ug/Kg		8/26/2024	18:57
2-Chlorophenol	<282	ug/Kg		8/26/2024	18:57
2-Methylnapthalene	<282	ug/Kg		8/26/2024	18:57
2-Methylphenol	<282	ug/Kg		8/26/2024	18:57
2-Nitroaniline	<282	ug/Kg		8/26/2024	18:57
2-Nitrophenol	<282	ug/Kg		8/26/2024	18:57
3&4-Methylphenol	<282	ug/Kg		8/26/2024	18:57
3,3'-Dichlorobenzidine	<282	ug/Kg		8/26/2024	18:57
3-Nitroaniline	<282	ug/Kg		8/26/2024	18:57
4,6-Dinitro-2-methylphenol	<565	ug/Kg		8/26/2024	18:57
4-Bromophenyl phenyl ether	<282	ug/Kg		8/26/2024	18:57
4-Chloro-3-methylphenol	<282	ug/Kg		8/26/2024	18:57

PARADIGM ENVIRONMENTAL SERVICES, INC.

Method Blank Report

Client: **Ravi Engineering & Land Surveying, P.C.**

Project Reference: 631 Northland Ave

Lab Project ID: 243844

Matrix: Soil

Semi-Volatile Organics (Acid/Base Neutrals)

Analyte	Result	Units	Qualifier	Date Analyzed	
4-Chloroaniline	<282	ug/Kg		8/26/2024	18:57
4-Chlorophenyl phenyl ether	<282	ug/Kg		8/26/2024	18:57
4-Nitroaniline	<282	ug/Kg		8/26/2024	18:57
4-Nitrophenol	<282	ug/Kg		8/26/2024	18:57
Acenaphthene	<282	ug/Kg		8/26/2024	18:57
Acenaphthylene	<282	ug/Kg		8/26/2024	18:57
Acetophenone	<282	ug/Kg		8/26/2024	18:57
Anthracene	<282	ug/Kg		8/26/2024	18:57
Atrazine	<282	ug/Kg		8/26/2024	18:57
Benzaldehyde	<282	ug/Kg		8/26/2024	18:57
Benzo (a) anthracene	<282	ug/Kg		8/26/2024	18:57
Benzo (a) pyrene	<282	ug/Kg		8/26/2024	18:57
Benzo (b) fluoranthene	<282	ug/Kg		8/26/2024	18:57
Benzo (g,h,i) perylene	<282	ug/Kg		8/26/2024	18:57
Benzo (k) fluoranthene	<282	ug/Kg		8/26/2024	18:57
Bis (2-chloroethoxy) methane	<282	ug/Kg		8/26/2024	18:57
Bis (2-chloroethyl) ether	<282	ug/Kg		8/26/2024	18:57
Bis (2-ethylhexyl) phthalate	<282	ug/Kg		8/26/2024	18:57
Butylbenzylphthalate	<282	ug/Kg		8/26/2024	18:57
Caprolactam	<282	ug/Kg		8/26/2024	18:57
Carbazole	<282	ug/Kg		8/26/2024	18:57
Chrysene	<282	ug/Kg		8/26/2024	18:57
Dibenz (a,h) anthracene	<282	ug/Kg		8/26/2024	18:57
Dibenzofuran	<282	ug/Kg		8/26/2024	18:57
Diethyl phthalate	<282	ug/Kg		8/26/2024	18:57
Dimethyl phthalate	<282	ug/Kg		8/26/2024	18:57
Di-n-butyl phthalate	<282	ug/Kg		8/26/2024	18:57
Di-n-octylphthalate	<282	ug/Kg		8/26/2024	18:57

PARADIGM ENVIRONMENTAL SERVICES, INC.

Method Blank Report

Client: **Ravi Engineering & Land Surveying, P.C.**

Project Reference: 631 Northland Ave

Lab Project ID: 243844

Matrix: Soil

Semi-Volatile Organics (Acid/Base Neutrals)

Analyte	Result	Units	Qualifier	Date Analyzed
Fluoranthene	<282	ug/Kg		8/26/2024 18:57
Fluorene	<282	ug/Kg		8/26/2024 18:57
Hexachlorobenzene	<282	ug/Kg		8/26/2024 18:57
Hexachlorobutadiene	<282	ug/Kg		8/26/2024 18:57
Hexachlorocyclopentadiene	<1130	ug/Kg		8/26/2024 18:57
Hexachloroethane	<282	ug/Kg		8/26/2024 18:57
Indeno (1,2,3-cd) pyrene	<282	ug/Kg		8/26/2024 18:57
Isophorone	<282	ug/Kg		8/26/2024 18:57
Naphthalene	<282	ug/Kg		8/26/2024 18:57
Nitrobenzene	<282	ug/Kg		8/26/2024 18:57
N-Nitroso-di-n-propylamine	<282	ug/Kg		8/26/2024 18:57
N-Nitrosodiphenylamine	<282	ug/Kg		8/26/2024 18:57
Pentachlorophenol	<565	ug/Kg		8/26/2024 18:57
Phenanthrene	<282	ug/Kg		8/26/2024 18:57
Phenol	<282	ug/Kg		8/26/2024 18:57
Pyrene	<282	ug/Kg		8/26/2024 18:57

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
2,4,6-Tribromophenol	**65.5**	34.3 - 95.6		8/26/2024 18:57
2-Fluorobiphenyl	**61.8**	37.9 - 87.2		8/26/2024 18:57
2-Fluorophenol	**62.7**	34.4 - 80.5		8/26/2024 18:57
Nitrobenzene-d5	**59.4**	33.2 - 82.1		8/26/2024 18:57
Phenol-d5	**68.1**	36.4 - 85.4		8/26/2024 18:57
Terphenyl-d14	**75.4**	45.9 - 96		8/26/2024 18:57

Method Reference(s): EPA 8270D
EPA 3546
Preparation Date: 8/23/2024
Data File: B73413.D
QC Batch ID: QC240823ABNS
QC Number: Blk 1

PARADIGM ENVIRONMENTAL SERVICES, INC.

QC Report for Laboratory Control Sample

Client: Ravi Engineering & Land Surveying, P.C.

Project Reference: 631 Northland Ave

Lab Project ID: 243844

Matrix: Soil

Semi-Volatile Organics (Acid/Base Neutrals)

Analyte	Spike Added	Spike Units	LCS Result	LCS % Recovery	% Rec Limits	LCS Outliers	Date Analyzed
1,2,4-Trichlorobenzene	2630	ug/Kg	1190	45.2	37.7 - 80.4		8/26/2024
1,4-Dichlorobenzene	2630	ug/Kg	1110	42.3	34.3 - 75.3		8/26/2024
2,3,4,6-Tetrachlorophenol	3950	ug/Kg	2780	70.5	44.8 - 86.1		8/26/2024
2,4,6-Trichlorophenol	3950	ug/Kg	2830	71.7	46.6 - 92.6		8/26/2024
2,4-Dichlorophenol	3950	ug/Kg	2760	69.8	45.6 - 89.4		8/26/2024
2,4-Dimethylphenol	3950	ug/Kg	1860	47.2	31.6 - 93.8		8/26/2024
2,4-Dinitrophenol	3950	ug/Kg	2460	62.4	10 - 73.8		8/26/2024
2,4-Dinitrotoluene	2630	ug/Kg	1380	52.3	41 - 91.2		8/26/2024
2-Chlorophenol	3950	ug/Kg	2660	67.5	43.6 - 84.3		8/26/2024
2-Nitrophenol	3950	ug/Kg	2780	70.4	41.3 - 85.8		8/26/2024
4,6-Dinitro-2-methylphenol	3950	ug/Kg	2620	66.3	20.9 - 88.5		8/26/2024
4-Chloro-3-methylphenol	3950	ug/Kg	2980	75.4	47.7 - 92.8		8/26/2024
4-Nitrophenol	3950	ug/Kg	3070	77.8	37.1 - 94.4		8/26/2024
Acenaphthene	2630	ug/Kg	1300	49.4	42.5 - 87.3		8/26/2024
N-Nitroso-di-n-propylamine	2630	ug/Kg	1310	49.7	39.1 - 84.2		8/26/2024
Pentachlorophenol	3950	ug/Kg	3050	77.3	36.6 - 103		8/26/2024

Report Prepared Thursday, August 29, 2024

PARADIGM
ENVIRONMENTAL SERVICES, INC.

QC Report for Laboratory Control Sample

Client: **Ravi Engineering & Land Surveying, P.C.**

Project Reference: 631 Northland Ave

Lab Project ID: 243844

Matrix: Soil

Semi-Volatile Organics (Acid/Base Neutrals)

Analyte	Spike Added	Spike Units	LCS Result	LCS % Recovery	% Rec Limits	LCS Outliers	Date Analyzed
Phenol	3950	ug/Kg	2690	68.0	44.2 - 85.3		8/26/2024
Pyrene	2630	ug/Kg	1450	55.2	48 - 97		8/26/2024

Method Reference(s): EPA 8270D
EPA 3546
Preparation Date: 8/23/2024
Data File: B73414.D
QC Number: LCS 1
QC Batch ID: QC240823ABNS

Report Prepared Thursday, August 29, 2024

PARADIGM
ENVIRONMENTAL SERVICES, INC.

QC Report for Matrix Spike and Matrix Spike Duplicate

Client: Ravi Engineering & Land Surveying, P.C. **Lab Project ID:** 243844

Project Reference: 631 Northland Ave

Lab Sample ID: 243844-07
Sample Identifier: SS-7
Matrix: Soil

Date Sampled: 8/20/2024
Date Received: 8/21/2024
Date Analyzed: 8/27/2024

Semi-Volatile Organics (Acid/Base Neutrals)

Analyte	Sample Result	Result Units	MS Added	MS Result	MS % Recovery	MSD Added	MSD Result	MSD % Recovery	% Rec. Limits	MS Outlier	MSD Outlier	Relative % Diff.	RPD Limit	RPD Outlier
1,2,4-Trichlorobenzene	< 302	ug/Kg	3120	1920	61.5	2940	1540	52.3	37.7 - 80.4			16.1	55.2	
1,4-Dichlorobenzene	< 302	ug/Kg	3120	1740	55.8	2940	1390	47.3	34.3 - 75.3			16.5	60.9	
2,3,4,6-Tetrachlorophenol	< 302	ug/Kg	4690	2670	56.9	4410	1960	44.5	44.8 - 86.1		*	24.6	42.3	
2,4,6-Trichlorophenol	< 302	ug/Kg	4690	2980	63.6	4410	2190	49.6	46.6 - 92.6			24.7	43.6	
2,4-Dichlorophenol	< 302	ug/Kg	4690	3000	63.9	4410	2250	51.1	45.6 - 89.4			22.3	42.5	
2,4-Dimethylphenol	< 302	ug/Kg	4690	1760	37.6	4410	1240	28.1	31.6 - 93.8		*	29.0	59.4	
2,4-Dinitrophenol	< 1210	ug/Kg	4690	900	19.2	4410	659	14.9	10 - 73.8			25.1	114	
2,4-Dinitrotoluene	< 302	ug/Kg	3120	1920	61.5	2940	1360	46.3	41 - 91.2			28.1	53.6	
2-Chlorophenol	< 302	ug/Kg	4690	2870	61.3	4410	2100	47.6	43.6 - 84.3			25.2	42.8	
2-Nitrophenol	< 302	ug/Kg	4690	2740	58.5	4410	1820	41.2	41.3 - 85.8		*	34.7	44.5	
4,6-Dinitro-2-methylphenol	< 604	ug/Kg	4690	1500	32.0	4410	1010	22.9	20.9 - 88.5			33.2	92.8	
4-Chloro-3-methylphenol	< 302	ug/Kg	4690	3240	69.1	4410	2410	54.6	47.7 - 92.8			23.5	41.8	
4-Nitrophenol	< 302	ug/Kg	4690	3350	71.4	4410	2620	59.4	37.1 - 94.4			18.3	45.6	
Acenaphthene	**1130**	ug/Kg	3120	2670	49.3	2940	2050	31.5	42.5 - 87.3		*	44.1	50.3	

Any estimated values are displayed, and derived values calculated, based on numeric result only. See primary analytical report for data flags.

Report Prepared Thursday, August 29, 2024

PARADIGM ENVIRONMENTAL SERVICES, INC.

QC Report for Matrix Spike and Matrix Spike Duplicate

Client: Ravi Engineering & Land Surveying, P.C. **Lab Project ID:** 243844

Project Reference: 631 Northland Ave

Lab Sample ID: 243844-07
Sample Identifier: SS-7
Matrix: Soil

Date Sampled: 8/20/2024
Date Received: 8/21/2024
Date Analyzed: 8/27/2024

Semi-Volatile Organics (Acid/Base Neutrals)

Analyte	Sample Result	Result Units	MS Added	MS Result	MS % Recovery	MSD Added	MSD Result	MSD % Recovery	% Rec. Limits	MS Outlier	MSD Outlier	Relative % Diff.	RPD Limit	RPD Outlier
N-Nitroso-di-n-propylamine	< 302	ug/Kg	3120	2070	66.1	2940	1610	54.8	39.1 - 84.2			18.7	52.3	
Pentachlorophenol	< 604	ug/Kg	4690	2280	48.7	4410	1680	38.1	36.6 - 103			24.4	63.6	
Phenol	< 302	ug/Kg	4690	2990	63.9	4410	2240	50.9	44.2 - 85.3			22.7	41.7	
Pyrene	**10600**	ug/Kg	3120	8600	-64.7	2940	6540	-139	48 - 97	*	*	72.8	48	*

Method Reference(s): EPA 8270D
EPA 3546
Preparation Date: 8/23/2024
Data File(s): B73432.D
B73433.D
B73431.D
1
QC Batch ID: QC240823ABNS

Any estimated values are displayed, and derived values calculated, based on numeric result only. See primary analytical report for data flags.

Report Prepared Thursday, August 29, 2024

Analytical Report Appendix

The reported results relate only to the samples as they have been received by the laboratory.

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All soil/sludge samples have been reported on a dry weight basis, unless qualified “reported as received”. Other solids are reported as received.

Low level Volatiles blank reports for soil/solid matrix are based on a nominal 5 gram weight. Sample results and reporting limits are based on actual weight, which may be more or less than 5 grams.

The Chain of Custody provides additional information, including compliance with sample condition requirements upon receipt. Sample condition requirements are defined under the 2003 NELAC Standard, sections 5.5.8.3.1 and 5.5.8.3.2.

NYSDOH ELAP does not certify for all parameters. Paradigm Environmental Services or the indicated subcontracted laboratory does hold certification for all analytes where certification is offered by ELAP unless otherwise specified. Aliquots separated for certain tests, such as TCLP, are indicated on the Chain of Custody and final reports with an “A” suffix.

Data qualifiers are used, when necessary, to provide additional information about the data. This information may be communicated as a flag or as text at the bottom of the report. Please refer to the following list of analyte-specific, frequently used data flags and their meaning:

“<” = Analyzed for but not detected at or above the quantitation limit.
“E” = Result has been estimated, calibration limit exceeded.
“H” = Denotes a parameter analyzed outside of holding time.
“Z” = See case narrative.
“D” = Sample, Laboratory Control Sample, or Matrix Spike Duplicate results above Relative Percent Difference limit.
“M” = Matrix spike recoveries outside QC limits. Matrix bias indicated.
“B” = Method blank contained trace levels of analyte. Refer to included method blank report.
“J” = Result estimated between the quantitation limit and half the quantitation limit.
"L" = Laboratory Control Sample recovery outside accepted QC limits.
“P” = Concentration differs by more than 40% between the primary and secondary analytical columns.
"NC" = Not calculable. Applicable to RPD if sample or duplicate result is non-detect or estimated (see primary report for data flags). Applicable to MS if sample is greater or equal to ten times the spike added. Applicable to sample surrogates or MS if sample dilution is 10x or higher.
"" = Indicates any recoveries outside associated acceptance windows. Surrogate outliers in samples are presumed matrix effects. LCS demonstrates method compliance unless otherwise noted.*
"(1)" = Indicates data from primary column used for QC calculation.
"A" = denotes a parameter for which ELAP does not offer approval as part of their laboratory certification program.
"F" = denotes a parameter for which Paradigm does not carry certification, the results for which should therefore only be used where ELAP certification is not required, such as personal exposure assessment.

GENERAL TERMS AND CONDITIONS
LABORATORY SERVICES

These Terms and Conditions embody the whole agreement of the parties in the absence of a signed and executed contract between the Laboratory (LAB) and Client. They shall supersede all previous communications, representations, or agreements, either verbal or written, between the parties. The LAB specifically rejects all additional, inconsistent, or conflicting terms, whether printed or otherwise set forth in any purchase order or other communication from the Client to the LAB. The invalidity or unenforceability in whole or in part of any provision, term or condition hereof shall not affect in any way the validity or enforceability of the remainder of the Terms and Conditions. No waiver by LAB of any provision, term, or condition hereof or of any breach by or obligation of the Client hereunder shall constitute a waiver of such provision, term, or condition on any other occasion or a waiver of any other breach by or obligation of the Client. This agreement shall be administered and interpreted under the laws of the state which services are procured.

Warranty. Recognizing that the nature of many samples is unknown and that some may contain potentially hazardous components, LAB warrants only that it will perform testing services, obtain findings, and prepare reports in accordance with generally accepted analytical laboratory principles and practices at the time of performance of services. LAB makes no other warranty, express or implied.

Scope and Compensation. LAB agrees to perform the services described in the chain of custody to which these terms and conditions are attached. Unless the parties agree in writing to the contrary, the duties of LAB shall not be construed to exceed the services specifically described. LAB wi use LAB default method for all tests unless specified otherwise on the Work Order.
Payment terms are net 30 days from the date of invoice. All overdue payments are subject to an interest charge of one and one-half percent (1-1/2%) per month or a portion thereof. Client shall also be responsible for costs of collection, including payment of reasonable attorney fees if such expense is incurred. The prices, unless stated, do not include any sale, use or other taxes. Such taxes will be added to invoice prices when required.

Prices. Compensation for services performed will be based on the current Lab Analytical Fee Schedule or on quotations agreed to in writing by the parties. Turnaround time based charges are determined from the time of resolution of all work order questions. Testimony, court appearances or data compilation for legal action will be charged separately. Evaluation and reporting of initial screening runs may incur additional fees.

Limitations of Liability. In the event of any error, omission, or other professional negligence, the sole and exclusive responsibility of LAB shall be to re-perform the deficient work at its own expense and LAB shall have no other liability whatsoever. All claims shall be deemed waived unless made in writing and received by LAB within ninety (90) days following completion of services.
LAB shall have no liability, obligation, or responsibility of any kind for losses, costs, expenses, or other damages (including but not limited to any special, direct, incidental or consequential damages) with respect to LAB's services or results.
All results provided by LAB are strictly for the use of its clients and LAB is in no way responsible for the use of such results by clients or third parties. All reports should be considered in their entirety, and LAB is not responsible for the separation, detachment, or other use of any portion of these reports. Client may not assign the lab report without the written consent of the LAB.
Client covenants and agrees, at its/his/her sole expense, to indemnify, protect, defend, and save harmless the LAB from and against any and all damages, losses, liabilities, obligations, penalties, claims, litigation, demands, defenses, judgments, suits, actions, proceedings, costs, disbursements and/or expenses (including, without limitation attorneys' and experts' fees and disbursements) of any kind whatsoever which may at any time be imposed upon, incurred by or asserted or awarded against client relating to, resulting from or arising out of (a) the breach of this agreement by this client, (b) the negligence of the client in handling, delivering or disclosing any hazardous substance, (c) the violation of the Client of any applicable law, (d) non-compliance by the Client with any environmental permit or (e) a material misrepresentation in disclosing the materials to be tested.

Hazard Disclosure. Client represents and warrants that any sample delivered to LAB will be preceded or accompanied by complete written disclosure of the presence of any hazardous substances known or suspected by Client. Client further warrants that any sample containing any hazardous substance that is to be delivered to LAB will be packaged, labeled, transported, and delivered properly and in accordance with applicable laws.

Sample Handling. Prior to LAB's acceptance of any sample (or after any revocation of acceptance), the entire risk of loss or of damage to such sample remains with Client. Samples are accepted when receipt is acknowledged on chain of custody documentation. In no event will LAB have any responsibility for the action or inaction of any carrier shipping or delivering any sample to or from LAB premises.
Client authorizes LAB to proceed with the analysis of samples as received by the laboratory, recognizing that any samples not in compliance with all current DOH-ELAP-NELAP requirements for containers, preservation or holding time will be noted as such on th final report.
Disposal of hazardous waste samples is the responsibility of the Client. If the Client does not wish such samples returned, LAB may add storage and disposal fees to the final invoice. Maximum storage time for samples is 30 days after completion of analysis unless modified by applicable state or federal laws. Client will be required to give the LAB written instructions concerning disposal of these samples.
LAB reserves the absolute right, exercisable at any time, to refuse to receive delivery of, refuse to accept, or revoke acceptance of any sample, which, in the sole judgment of LAB (a) is of unsuitable volume, (b) may be or become unsuitable for or may pose a risk in handling, transport, or processing for any health, safety, environmental or other reason whether or not due to the presence in the sample of any hazardous substance, and whether or not such presence has been disclosed to LAB by Client or (c) if the condition or sample date make the sample unsuitable for analysis.

Legal Responsibility. LAB is solely responsible for performance of this contract, and no affiliated company, director, officer, employee, or agent shall have any legal responsibility hereunder, whether in contract or tort including negligence.

Assignment. LAB may assign its performance obligations under this contract to other parties, as it deems necessary. LAB shall disclose to Client any assignee (subcontractor) by ELAP ID # on the submitted final report.

Force Majeure. LAB shall have no responsibility or liability to the Client for any failure or delay in performance by LAB, which results in whole or in part from any cause or circumstance beyond the reasonable control of LAB. Such causes and circumstances shall include, but not limited to, acts of God, acts or orders of any government authority, strikes or other labor disputes, natural disasters, accidents, wars, civil disturbances, difficulties or delays in transportation, mail or delivery services, inability to obtain sufficient services or supplies from LAB's usual suppliers, or any other cause beyond LAB's reasonable control.

Law. This contract shall be continued under the laws of the State of New York without regard to its conflicts of laws provision.

179 Lake Avenue, Rochester, NY 14608 Office (585) 647-2530 Fax (585) 647-3311

CHAIN OF CUSTODY

PARADIGM
ENVIRONMENTAL SERVICES

REPORT TO:	INVOICE TO:	
COMPANY: RANI ENGINEERING	COMPANY: SAME	LAB PROJECT ID: 243844
address: 2110 S. CLINTON AVE SUITE 1	ADDRESS:	
CITY: ROCHESTER STATE: NY ZIP: 14618	CITY: STATE: ZIP:	Quotation #:
PHONE: FAX:	PHONE: FAX:	Email: lzicari@ranieng.com bkelly@ranieng.com
ATTN: BEN REDDY LYNN ZICARI	ATTN:	

PROJECT REFERENCE
631 NORTHLAND AVE

Matrix Codes:
AQ - Aqueous Liquid; NQ - Non-Aqueous Liquid; WA - Water; WG - Groundwater; DW - Drinking Water; WW - Wastewater; SO - Soil; SL - Sludge; SD - Solid; PT - Paint; WP - Wipe; CK - Caulk; OL - Oil; AR - Air

REQUESTED ANALYSIS

DATE COLLECTED	TIME COLLECTED	COMPOSITE	GRAB	SAMPLE IDENTIFIER	MATRIX CODES	NUMBER OF CONTAINERS	TCL SVOCs	TAL Metals	PCBs	REMARKS	PARADIGM LAB SAMPLE NUMBER
8/20/24	11:00 Am		X	SS-1	SO	1	X	X	X		01
	11:10		X	SS-2			X	X	X		02
	11:20		X	SS-3			X	X	X		03
	11:30		X	SS-4			X	X	X		04
	11:35		X	SS-5			X	X	X		05
	11:40		X	SS-6			X	X	X		06
	11:50		X	SS-7			X	X	X		07
	11:55		X	SS-8			X	X	X		08
	12:00		X	SS-9			X	X	X		09

Turnaround Time		Report Supplements		
Availability contingent upon lab approval; additional fees may apply.				
Standard 5 day	X	None Required		None Required
10 day		Batch QC		Basic EDD
Rush 3 day		Category A		NYSDEC EDD
Rush 2 day		Category B		
Rush 1 day				
Other		Other		Other EDD
please indicate date needed:		please indicate package needed:		please indicate EDD needed :

Sampled By	8/20/24 11:00 Am	Total Cost:
Relinquished By	8/21/24 10:15 Am	
Received By	8/21/24 10:15	P.I.F.
Received @ Lab By	8/21/24 12:50	

By signing this form, client agrees to Paradigm Terms and Conditions (reverse).

3 coiled 8/21/24 11:47

See additional page for sample conditions.

179 Lake Avenue, Rochester, NY 14608 Office (585) 647-2530 Fax (585) 647-3311

CHAIN OF CUSTODY

PARADIGM ENVIRONMENTAL SERVICES

REPORT TO:	INVOICE TO:	LAB PROJECT ID
COMPANY: RAVI ENGINEERING	COMPANY: SAME	243844
address: 2110 S. CLINTON AVE ST. 1	ADDRESS:	Quotation #:
CITY: ROCHESTER STATE: NY ZIP: 14618	CITY: STATE: ZIP:	Email: lzicari@raviveng.com
PHONE: FAX:	PHONE: FAX:	bfeddy@raviveng.com
ATTN: BEN REDDY LYNN ZICARI	ATTN:	

PROJECT REFERENCE
631 NORTHLAND AVE

Matrix Codes:
AQ - Aqueous Liquid; NQ - Non-Aqueous Liquid; WA - Water; WG - Groundwater; DW - Drinking Water; WW - Wastewater; SO - Soil; SL - Sludge; SD - Solid; PT - Paint; WP - Wipe; CK - Caulk; OL - Oil; AR - Air

REQUESTED ANALYSIS

DATE COLLECTED	TIME COLLECTED	COMPOSITE	GRAB	SAMPLE IDENTIFIER	MATRIX CODES	NUMBER OF CONTAINERS	TCL SVOCs	TAL METALS	PCBs	REMARKS	PARADIGM LAB SAMPLE NUMBER
8/20/24	12:10		X	SS-10	SO	1	X	X	X		10
	12:20		X	SS-11			X	X	X		11
	12:25		X	SS-12			X	X	X		12
	12:30		X	SS-13			X	X	X		13
	12:40		X	SS-14			X	X	X		14

Turnaround Time		Report Supplements		
Availability contingent upon lab approval; additional fees may apply.				
Standard 5 day	X	None Required		None Required	
10 day		Batch QC		Basic EDD	
Rush 3 day		Category A		NYSDEC EDD	
Rush 2 day		Category B			
Rush 1 day					
Other please indicate date needed:		Other please indicate package needed:		Other EDD please indicate EDD needed :	

Sampled By	8/20/24 11:20 AM	Total Cost:
Relinquished By	8/21/24 10:14 AM	
Received By	8/21/24 10:14	P.I.F.
Received @ Lab By	8/21/24 12:50	

By signing this form, client agrees to Paradigm Terms and Conditions (reverse).

See additional page for sample conditions.

PARADIGM

Chain of Custody Supplement

Client: Ravi Engineering **Completed by:** Cedric Mu

Lab Project ID: 243844 **Date:** 8/21/24

Sample Condition Requirements

Per NELAC/ELAP 210/241/242/243/244

Condition	NELAC compliance with the sample condition requirements upon receipt — Yes	No	N/A
Container Type	X		
Comments			
Transferred to method-compliant container	X (-07) g3 → g3 (brown jar)		X
Headspace (<1 mL)			X
Comments			
Preservation			X
Comments			
Chlorine Absent (<0.10 ppm per test strip)			X
Comments			
Holding Time	X		
Comments			
Temperature	X		X metals (except Hg)
Comments	3°C iced		
Compliant Sample Quantity/Type	X		
Comments			