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ENVIRONMENTAL SERVICES

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Memorandum – Galloway Creek Sampling

To: City of Auburn Hills Brownfield Redevelopment Authority

From: Megan Napier, P.E., Regional Manager, AKT Peerless

Date: March 25, 2024

Subject: Galloway Creek in Auburn Hills, Michigan – 1st Quarter 2024 Results

AKT Peerless Project No. 13038f-5-20

The City of Auburn Hills retained AKT Peerless to coordinate and conduct sampling of the Galloway Creek within the city limits for four quarters, beginning in the 1st Quarter of 2024. One surface water and one sediment sample were collected from each predetermined location (refer to attached Figures).

This memorandum documents the results from the sampling event conducted in March 2024.

Sampling Activities

On March 7, 2024, four surface water and four sediment samples were collected from predetermined locations along Galloway Creek within the city limits and submitted to Quantum Laboratories, Inc. for analysis of volatile organic compounds (VOCs), semi-volatile organic compounds (SVOCs), Michigan 10 Metals (arsenic, barium, cadmium, chromium, copper, lead, mercury, selenium, silver, and zinc), hexavalent chromium, polychlorinated biphenyls (PCBs), herbicides, and pesticides.

Samples were collected from the following locations (refer to attached Figures):

- Location A: Galloway Creek north of 4470 Castlewood Drive.
- Location B: Galloway Creek along Hole #12 at the Fieldstone Golf Club.
- Location C: Galloway Creek west of 1361 N Opdyke Road.
- Location D: Galloway Creek west of 1400 N Squirrel Road.

Sediment and surface water samples were collected using a stainless steel sampling dipper. The dipper was decontaminated by washing and scrubbing the equipment with non-phosphate detergent, rinsing, and air drying the dipper between uses.

AKT Peerless collected samples according to USEPA Publication SW-846, “Test Methods for Evaluating Solid Waste.” All samples were collected in laboratory-supplied containers, stored on ice or at approximately four degrees Celsius.

Sediment samples collected for VOC analyses were field preserved with methanol in accordance with USEPA Method 5035. Sediment samples collected for SVOCs, PCBs, metals, pesticides, and herbicides analyses were stored in unpreserved, four-ounce, wide-mouth jars.

Surface water samples for VOC analyses were collected with zero headspace into 40 ml glass vials and preserved with hydrochloric acid. Surface water samples collected for analysis of SVOCs, PCBs, metals, pesticides, and herbicides were collected into 1-liter amber glass jars.

The laboratory analyzed the samples for: (1) VOCs in accordance with USEPA Methods 8260C and 5035; (2) SVOCs in accordance with USEPA Method 8270C; (3) metals in accordance with USEPA Methods 7471B, 6020B, and 7196A; (4) PCBs in accordance with USEPA Method 8082A; (5) pesticides in accordance with USEPA Method 8081B; (6) herbicides in accordance with USEPA Method 8151A; and (7) hexavalent chromium in accordance with USEPA Methods 7196 and 3060. The surface water samples were laboratory filtered with a 0.45 micron filter prior to digestion and analysis of metals.

Sampling Results

Laboratory samples were compared to Michigan Department of Environment, Great Lakes, & Energy (EGLE) Residential Cleanup Criteria (RCC) for soil and groundwater promulgated under Part 201, Environmental Remediation, of the Natural Resources and Environmental Protection Act, 1994 PA 451, as amended and the Rule 57 Surface Water Quality Values promulgated under Part 31, Water Resources Protection, of NREPA 1994 PA 451, as amended. Rule 57 Water Quality Values are the generic Groundwater Surface Water Interface (GSI) cleanup criteria under Part 201.

Sediment Results

- Concentrations of arsenic, copper, lead, and zinc were detected above laboratory method detection limits (MDLs) but below RCC in all four sediment samples.
- Barium was detected at concentrations above EGLE Groundwater Surface Water Interface Protection (GSIP) Criterion in the sediment sample collected from Locations A and C. Concentrations of barium were above laboratory MDLs but below RCC in the sediment samples collected at Locations B and D.
- Chromium (total) was detected above laboratory MDLs in sediment samples from Locations A and C. According to EGLE, it is assumed that hexavalent chromium (chromium VI) and trivalent chromium (chromium III) are the only forms of chromium found in the environment, and the concentrations of chromium III can be calculated by subtracting chromium VI results from total chromium results. Concentrations of chromium VI were not present in the sediment samples above laboratory MDLs. Therefore, the identified chromium is in the form of chromium III. The chromium III concentrations were detected below EGLE RCC.
- Concentrations of VOCs, SVOCS, PCBs, herbicides, pesticides and the remaining metals were below laboratory MDLs in all four sediment samples.

Surface Water Results:

- Barium was detected at concentrations exceeding GSI criteria in the surface water samples collected from all four locations.
- Copper was detected at concentrations above EGLE GSI criteria in surface water samples collected from Locations A and D.
- Concentrations of VOCs, SVOCs, PCBs, herbicides, pesticides, and the remaining metals were below laboratory MDLs in all four surface water samples.

Next Actions

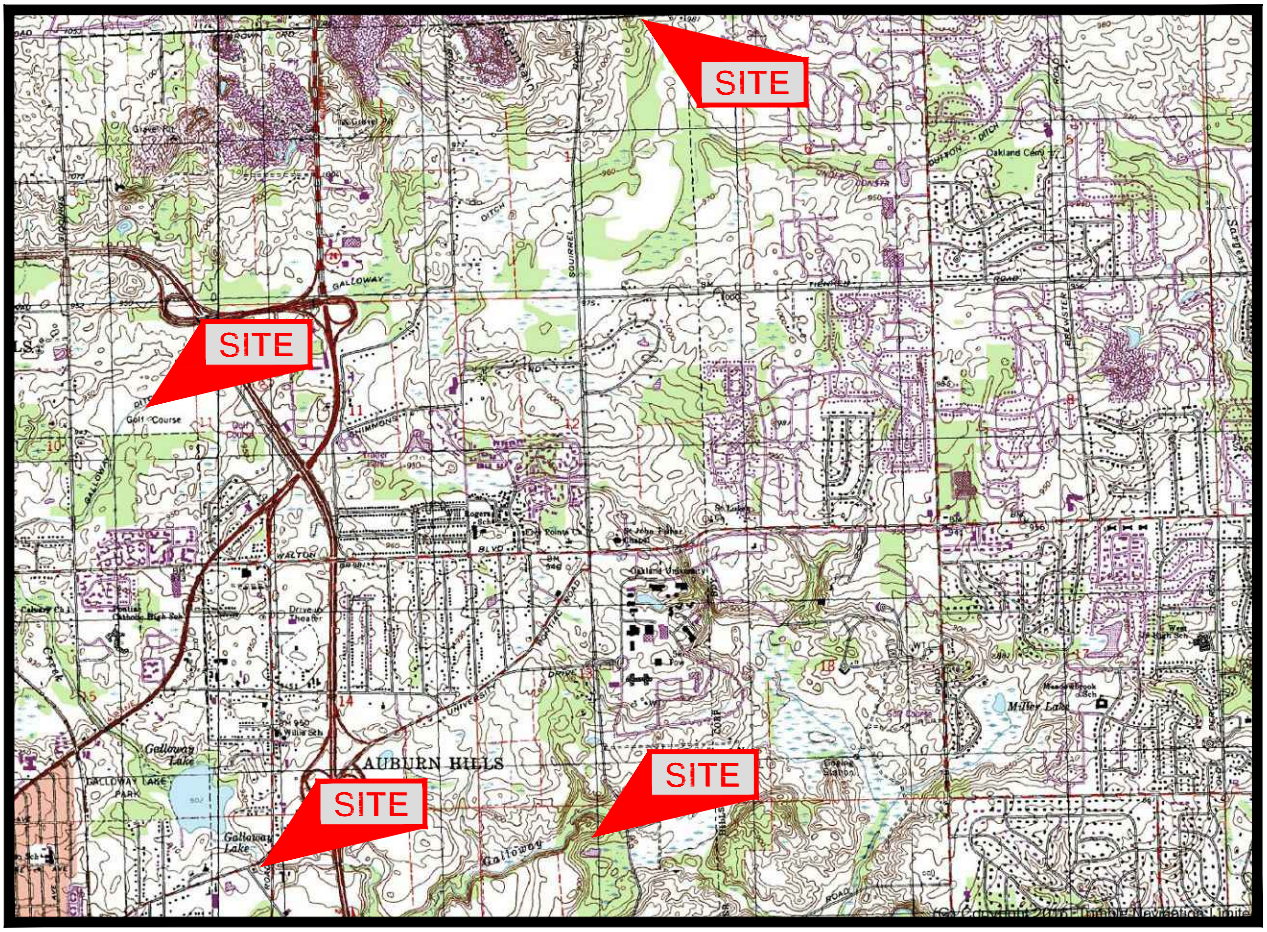
Future sampling will be conducted on a quarterly basis thru 2024.

Figures

ROCHESTER QUADRANGLE

MICHIGAN - OAKLAND COUNTY

7.5 MINUTE SERIES (TOPOGRAPHIC)



T.3 N.-R.10 E.

1 0 1 MILE

1000 0 1000 2000 3000 4000 5000 6000 7000 FEET

1 0 1 KILOMETER

MICHIGAN
QUADRANGLE LOCATION

IMAGE TAKEN FROM 1997 U.S.G.S. TOPOGRAPHIC MAP

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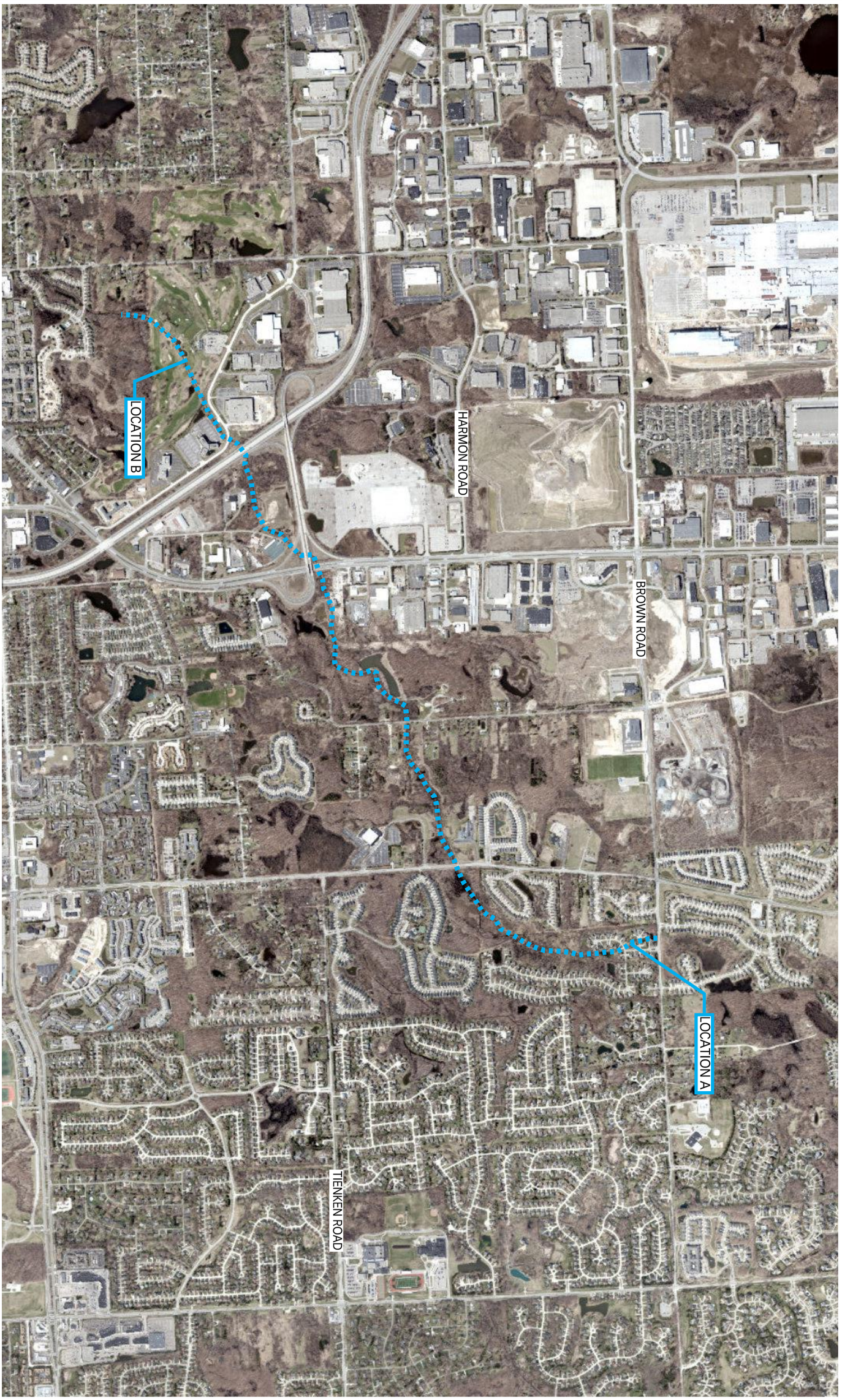
TOPOGRAPHIC LOCATION MAP

4470 CASTLEWOOD DRIVE, FIELDSTONE GOLF COURSE
HOLE #12, NEAR 1592 NORTH OPDYKE ROAD, AND NEAR
1400 NORTH SQUIRREL ROAD
AUBURN HILLS, MICHIGAN
PROJECT NUMBER: 13038F-4-20

DRAWN BY: SES
DATE: 04/05/2023

FIGURE 1



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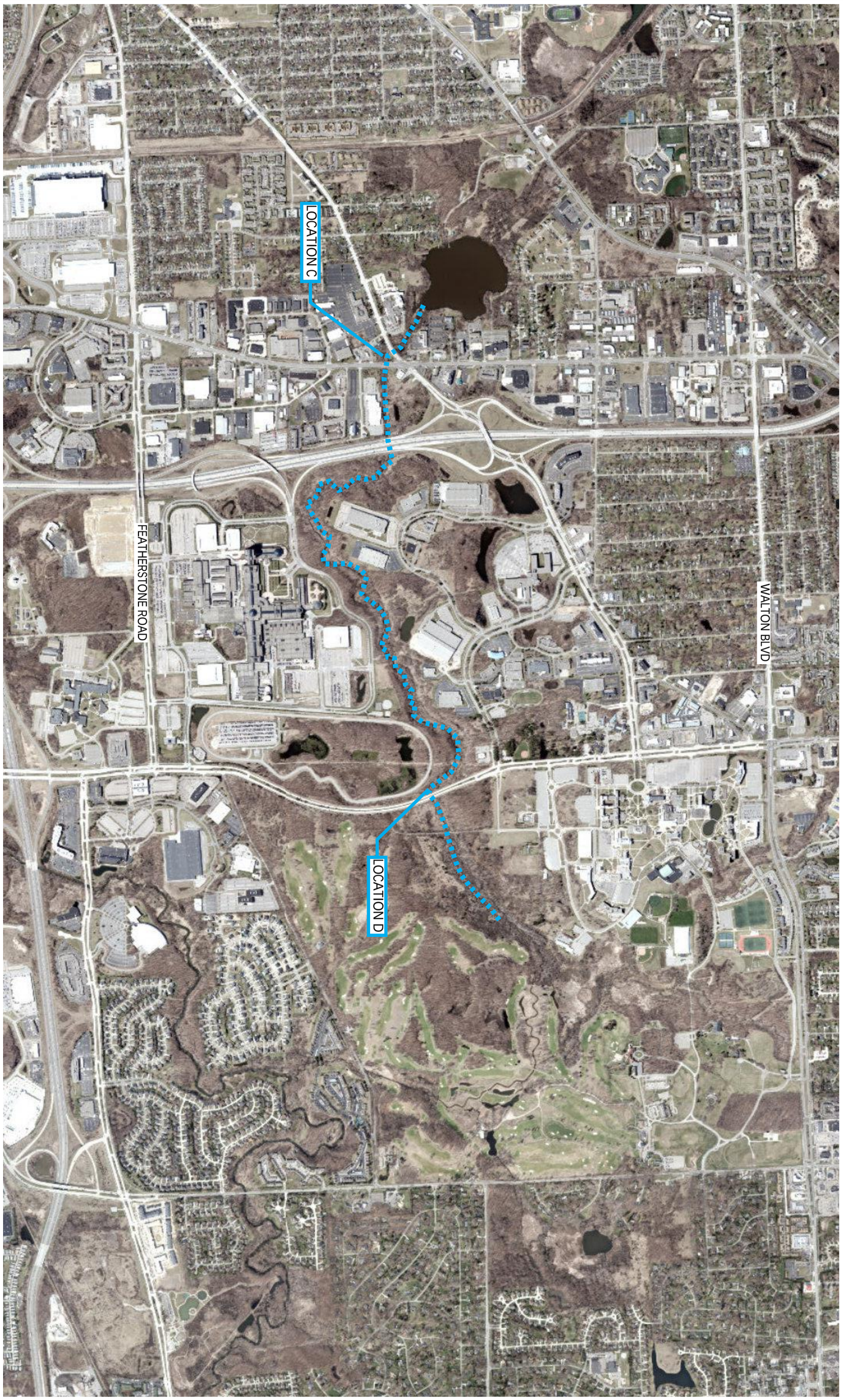
SAMPLE LOCATION MAP

GALLOWAY CREEK
AUBURN HILLS, MICHIGAN
PROJECT NUMBER: 13038F-

NOT TO SCALE

FIGURE 2



AKTPEERLESS™
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SAMPLE LOCATION MAP

GALLOWAY CREEK
AUBURN HILLS, MICHIGAN
PROJECT NUMBER: 13038F-

NOT TO SCALE

FIGURE 3

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Tables

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Table 1 - Summary of Sediment Analytical Results
Galloway Creek
Auburn Hills, Michigan
AKT Peerless Project No. 13038F-5-20

		EGLE Part 201 Residential Cleanup Criteria														
Parameters (Refer to detailed laboratory report for method reference data)	**Chemical Abstract Service Number**	**Statewide Default Background Levels**	**Drinking Water Protection Criteria**	**Groundwater Surface Water Interface Protection Criteria**	**Soil Volatilization to Indoor Air Inhalation Criteria**	**Infinite Source Volatile Soil Inhalation Criteria (VSIC)**	**Finite VSIC for 5 Meter Source Thickness**	**Finite VSIC for 2 Meter Source Thickness**	**Particulate Soil Inhalation Criteria**	**Direct Contact Criteria**	**Soil Saturation Concentration Screening Levels**	**Sample Location**	**Location A**	**Location B**	**Location C**	**Location D**
												Collection Date	**03/07/24**	**03/07/24**	**03/07/24**	**03/07/24**
												Depth	**Surface**	**Surface**	**Surface**	**Surface**
Metals		ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg		ug/Kg	ug/Kg	ug/Kg	ug/Kg
Arsenic	7440-38-2	5,800	4,600	4,600	NLV	NLV	NLV	NLV	7.2E+5	7,600	NA		**2,340**	**986**	**1,220**	**2,370**
Barium (B)	7440-39-3	75,000	1.3E+6	**1.7E+5 (G)**	NLV	NLV	NLV	NLV	3.3E+8	3.7E+7	NA		**187,000**	**59,900**	**207,000**	**67,400**
Cadmium (B)	7440-43-9	1,200	6,000	1,900 (G,X)	NLV	NLV	NLV	NLV	1.7E+6	5.5E+5	NA		<200	<200	<200	<200
Chromium, Total	7440-47-3	18,000 (total)	30,000	NA	NLV	NLV	NLV	NLV	2.6E+5	2.5E+6	NA		**4,240***	<2,000	**6,830***	<2000
Chromium III (B,H)	16065-83-1	18,000 (total)	1.0E+9 (D)	1.4E+9 (G,X)	NLV	NLV	NLV	NLV	3.3E+8	7.9E+8	NA		**4,240**	<2,000	**6,830**	<2,000
Chromium VI	18540-29-9	NA	30,000	3,300	NLV	NLV	NLV	NLV	2.6E+5	2.5E+6	NA		<2,000	<2,000	<2,000	<2,000
Copper (B)	7440-50-8	32,000	5.8E+6	3.4E+4 (G)	NLV	NLV	NLV	NLV	1.3E+8	2.0E+7	NA		**4,980**	**2,400**	**11,200**	**2,860**
Lead (B)	7439-92-1	21,000	7.0E+5	3.0E+6 (G,X)	NLV	NLV	NLV	NLV	1.0E+8	4.0E+5	NA		**3,630**	**1,670**	**2,720**	**2,050**
Mercury, Total	7439-97-6	130	1,700	50 (M); 1.2	48,000	52,000	52,000	52,000	2.0E+7	1.6E+5	NA		<50	<50	<50	<50
Selenium (B)	7782-49-2	410	4,000	400	NLV	NLV	NLV	NLV	1.3E+8	2.6E+6	NA		<200	<200	<200	<200
Silver (B)	7440-22-4	1,000	4,500	100 (M); 27	NLV	NLV	NLV	NLV	6.7E+6	2.5E+6	NA		<100	<100	<100	<2,000
Zinc (B)	7440-66-6	47,000	2.4E+6	7.7E+4 (G)	NLV	NLV	NLV	NLV	ID	1.7E+8	NA		**14,200**	**8,400**	**15,600**	**11,200**
Polychlorinated biphenyls (PCBs)																
PCB, Aroclor 1016	12674-11-2	NA	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV		<100	<100	<100	<100
PCB, Aroclor 1221	11104-28-2	NA	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV		<100	<100	<100	<100
PCB, Aroclor 1232	11141-16-5	NA	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV		<100	<100	<100	<100
PCB, Aroclor 1242	53469-21-9	NA	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV		<100	<100	<100	<100
PCB, Aroclor 1248	12672-29-6	NA	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV		<100	<100	<100	<100
PCB, Aroclor 1254	11097-69-1	NA	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV		<100	<100	<100	<100
PCB, Aroclor 1260	11096-82-5	NA	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV		<100	<100	<100	<100
PCB, Aroclor 1262	37324-23-5	NA	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV		NS	NS	NS	NS
PCB, Aroclor 1268	11100-14-4	NA	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV		NS	NS	NS	NS
Polychlorinated biphenyls (PCBs) (J,T)	1336-36-3	NA	NLL	NLL	3.0E+6	2.4E+5	7.9E+6	7.9E+6	5.2E+6	(T)	NA		<700	<700	<700	<700
Organochlorine Herbicides																
2,4-DB	94826	NLS	NLS	NLS	NLS	NLS	NLS	NLS	NLS	NLS	NLS		<200	<200	<200	<200
2,4,5-T	93721	NLS	NLS	NLS	NLS	NLS	NLS	NLS	NLS	NLS	NLS		<500	<500	<500	<500
Dalapon	75-99-0	NA	4,000	NA	NLV	NLV	NLV	NLV	ID	1.9E+7	5.9E+7		<500	<500	<500	<500
Dicamba	1918-00-9	NA	4,400	NA	NA	NLV	NLV	NLV	ID	3.4E+6	NA		<50	<50	<50	<50
2,4-Dichlorophenoxyacetic acid	94-75-7	NA	1,400	4,400	NLV	NLV	NLV	NLV	6.7E+9	2.5E+6	NA		<200	<200	<200	<200
Dichloroprop	15165670	NLS	NLS	NLS	NLS	NLS	NLS	NLS	NLS	NLS	NLS		<50	<50	<50	<50
Dinoseb	88-85-7	NA	300	200 (M); 43	NLV	NLV	NLV	NLV	2.7E+8	66,000 (DD)	1.4E+5		<200	<200	<200	<200
2-Methyl-4-chlorophenoxyacetic acid	94-74-6	NA	390	NA	NLV	NLV	NLV	NLV	ID	2.3E+5	NA		<5,000	<5,000	<5,000	<5,000
MCPP	7085190	NLS	NLS	NLS	NLS	NLS	NLS	NLS	NLS	NLS	NLS		<5,000	<5,000	<5,000	<5,000
Silvex (2,4,5-TP)	93-72-1	NA	3,600	2,200	NLV	NLV	NLV	NLV	ID	1.7E+6	NA		<300	<300	<300	<300
Organochlorine Pesticides																
Aldrin	309-00-2	NA	NLL	NLL	1.3E+6	58,000	58,000	58,000	6.4E+5	1,000	NA		<20	<20	<20	<20
Chlordane (J)	57-74-9	NA	NLL	NLL	1.1E+7	1.2E+6	1.2E+6	1.2E+6	3.1E+7	31,000	NA		<30	<30	<30	<30
4-4'-DDD	72-54-8	NA	NLL	NLL	NLV	NLV	NLV	NLV	4.4E+7	95,000	NA		<20	<20	<20	<20
4-4'-DDE	72-55-9	NA	NLL	NLL	NLV	NLV	NLV	NLV	3.2E+7	45,000	NA		<20	<20	<20	<20
4-4'-DDT	50-29-3	NA	NLL	NLL	NLV	NLV	NLV	NLV	3.2E+7	57,000	NA		<20	<20	<20	<20
Dieldrin	60-57-1	NA	NLL	NLL	1.4E+5	19,000	19,000	19,000	6.8E+5	1,100	NA		<20	<20	<20	<20
Endosulfan I	959-98-8	NA	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV		<20	<20	<20	<20
Endosulfan II	33213-65-9	NA	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV		<20	<20	<20	<20
Endosulfan (J)	115-29-7	NA	NLL	NLL	ID	ID	ID	ID	ID	1.4E+6	NA		<40	<40	<40	<40
Endosulfan Sulfate	1031078	NLS	NLS	NLS	NLS	NLS	NLS	NLS	NLS	NLS	NLS		<20	<20	<20	<20
Endrin	72-20-8	NA	NLL	NLL	NLV	NLV	NLV	NLV	ID	65,000	NA		<20	<20	<20	<20
Endrin aldehyde	7421934	NLS	NLS	NLS	NLS	NLS	NLS	NLS	NLS	NLS	NLS		<20	<20	<20	<20

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Auburn Hills, Michigan
AKT Peerless Project No. 13038F-5-20

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												Collection Date	**03/07/24**	**03/07/24**	**03/07/24**	**03/07/24**
												Depth	**Surface**	**Surface**	**Surface**	**Surface**
Heptachlor	76-44-8	NA	NLL	NLL	3.5E+5	62,000	62,000	62,000	2.4E+6	5,600	NA		<20	<20	<20	<20
Heptachlor epoxide	1024-57-3	NA	NLL	NLL	NLV	NLV	NLV	NLV	1.2E+6	3,100	NA		<20	<20	<20	<20
Hexachlorobutadiene (C-46)	87-68-3	NA	26,000	91	1.3E+5	1.3E+5	1.3E+5	1.3E+5	1.4E+8	1.0E+5	3.5E+5		<50	<50	<50	<50
alpha-Hexachlorocyclohexane	319-84-6	NA	18	ID	30,000	12,000	22,000	25,000	1.7E+6	2,600	NA		<10	<10	<10	<10
beta-Hexachlorocyclohexane	319-85-7	NA	37	ID	NLV	NLV	NLV	NLV	5.9E+6	5,400	NA		<20	<20	<20	<20
delta-Hexachlorocyclohexane	319868	NLS	NLS	NLS	NLS	NLS	NLS	NLS	NLS	NLS	NLS		<20	<20	<20	<20
Lindane	58-89-9	NA	20 (M); 7.0	20 (M); 1.1	ID	ID	ID	ID	ID	8,300	NA		<20	<20	<20	<20
Methoxychlor	72-43-5	NA	16,000	NA	ID	ID	ID	ID	ID	1.9E+6	NA		<50	<50	<50	<50
Semivolatile Organic Compounds (SVOCs)																
Aniline	62-53-3	NA	1,100	330 (M); 80	NLV	NLV	NLV	NLV	6.7E+7	3.3E+5	4.5E+6		<330	<330	<330	<330
Azobenzene	103-33-3	NA	4,200	ID	6.1E+6	6.3E+5	6.3E+5	6.3E+5	1.0E+8	1.4E+5	NA		<200	<200	<200	<200
Benzidine	92-87-5	NA	1,000 (M); 6.0	1,000 (M); 6.0	NLV	NLV	NLV	NLV	46,000	1,000 (M); 23	NA		<1,000	<1,000	<1,000	<1,000
Benzyl alcohol	100-51-6	NA	2.0E+5	NA	NLV	NLV	NLV	NLV	3.3E+11	3.2E+8 (C)	5.8E+6		<3,300	<3,300	<3,300	<3,300
4-Bromophenyl Phenylether	101-55-3	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV		<330	<330	<330	<330
Butyl benzyl phthalate	85-68-7	NA	2.2E+6 (C)	1.2E+5 (X)	NLV	NLV	NLV	NLV	4.7E+10	3.6E+7 (C)	3.1E+5		<330	<330	<330	<330
Carbazole	86-74-8	NA	9,400	1,100	NLV	NLV	NLV	NLV	6.2E+7	5.3E+5	NA		<330	<330	<330	<330
4-Chloroaniline	106-47-8	NLS	NLS	NLS	NLS	NLS	NLS	NLS	NLS	NLS	NLS		<330	<330	<330	<330
4-Chloro-3-methylphenol	59-50-7	NA	5,800	280	NLV	NLV	NLV	NLV	ID	4.5E+6	NA		<280	<280	<280	<280
Bis(2-chloroethoxy)methane	111-91-1	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV		<330	<330	<330	<330
bis(2-Chloroethyl)ether (I)	111-44-4	NA	100	100 (M); 20	8,300	3,800	3,800	3,800	9.4E+6	13,000	2.2E+6		<100	<100	<100	<100
Bis(2-chloroisopropyl) Ether	108-60-1	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV		<330	<330	<330	<330
beta-Chloronaphthalene	91-58-7	NA	6.2E+5	NA	ID	ID	ID	ID	ID	5.6E+7	NA		<330	<330	<330	<330
2-Chlorophenol	95-57-8	NA	900	360	4.3E+5	9.6E+5	9.6E+5	9.6E+5	1.2E+9	1.4E+6	1.9E+7		<330	<330	<330	<330
4-Chlorophenyl Phenylether	7005-72-3	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV		<330	<330	<330	<330
Dibenzofuran	132-64-9	NA	ID	1,700	2.0E+6	1.3E+5	1.3E+5	1.3E+5	6.7E+6	ID	NA		<330	<330	<330	<330
3,3'-Dichlorobenzidine	91-94-1	NA	2,000 (M); 28	2,000 (M); 7.4	NLV	NLV	NLV	NLV	6.5E+6	6,600	NA		<2,000	<2,000	<2,000	<2,000
2,4-Dichlorophenol	120-83-2	NA	1,500	330 (M); 220	NLV	NLV	NLV	NLV	5.1E+9	6.6E+5 (DD)	1.8E+6		<330	<330	<330	<330
Diethyl phthalate	84-66-2	NA	1.1E+5	2,200	NLV	NLV	NLV	NLV	3.3E+9	1.7E+8 (C)	7.4E+5		<330	<330	<330	<330
2,4-Dimethylphenol	105-67-9	NA	7,400	7,600	NLV	NLV	NLV	NLV	4.7E+9	1.1E+7	NA		<330	<330	<330	<330
Dimethyl phthalate	131-11-3	NA	1.5E+6 (C)	NA	NLV	NLV	NLV	NLV	3.3E+9	1.0E+9 (C,D)	7.9E+5		<330	<330	<330	<330
Di-n-butyl phthalate	84-74-2	NA	9.6E+5 (C)	11,000	NLV	NLV	NLV	NLV	3.3E+9	2.7E+7 (C)	7.6E+5		<330	<330	<330	<330
2,4-Dinitrophenol	51-28-5	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV		<830	<830	<830	<830
2,4-Dinitrotoluene	121-14-2	NA	430	NA	NLV	NLV	NLV	NLV	1.6E+7	48,000	NA		<330	<330	<330	<330
2,6-Dinitrotoluene	606-20-2	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV		<330	<330	<330	<330
Di-n-octyl phthalate	117-84-0	NA	1.0E+8	ID	NLV	NLV	NLV	NLV	3.1E+10	6.9E+6	1.4E+8		<330	<330	<330	<330
bis(2-Ethylhexyl)phthalate	117-81-7	NA	NLL	NLL	NLV	NLV	NLV	NLV	7.0E+8	2.8E+6	1.0E+7		<330	<330	<330	<330
Hexachlorobenzene (C-66)	118-74-1	NA	1,800	350	41,000	17,000	17,000	17,000	6.8E+6	8,900	NA		<330	<330	<330	<330
Hexachlorocyclopentadiene (C-56)	77-47-4	NA	3.2E+5	ID	30,000	50,000	50,000	50,000	1.3E+7	2.3E+6 (C)	7.2E+5		<330	<330	<330	<330
Hexachloroethane	67-72-1	NA	430	1,800 (X)	40,000	5.5E+5	9.3E+5	9.3E+5	2.3E+8	2.3E+5	NA		<300	<300	<300	<300
Isophorone	78-59-1	NA	15,000	26,000 (X)	NLV	NLV	NLV	NLV	1.2E+10	4.8E+6 (C)	2.4E+6		<330	<330	<330	<330
2-Methyl-4,6-dinitrophenol	534-52-1	NA	830 (M); 400	NA	NLV	NLV	NLV	NLV	1.3E+8	79,000	NA		<830	<830	<830	<830
Methylphenol, 2-	95-48-7	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV		<330	<330	<330	<330
Methylphenol, 3- and 4-	MEPH1314	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV		<330	<330	<330	<330
Methylphenols (J)	1319-77-3	NA	7,400	1,000 (M); 600	NLV	NLV	NLV	NLV	6.7E+9	1.1E+7	NA		<1,000	<1,000	<1,000	<1,000
2-Nitroaniline	88-74-4	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV		<830	<830	<830	<830
3-Nitroaniline	99-09-2	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV		<830	<830	<830	<830
4-Nitroaniline	100-01-6	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV		<830	<830	<830	<830

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Table 1 - Summary of Sediment Analytical Results
Galloway Creek
Auburn Hills, Michigan
AKT Peerless Project No. 13038F-5-20

		EGLE Part 201 Residential Cleanup Criteria														
Parameters (Refer to detailed laboratory report for method reference data)	**Chemical Abstract Service Number**	**Statewide Default Background Levels**	**Drinking Water Protection Criteria**	**Groundwater Surface Water Interface Protection Criteria**	**Soil Volatilization to Indoor Air Inhalation Criteria**	**Infinite Source Volatile Soil Inhalation Criteria (VSIC)**	**Finite VSIC for 5 Meter Source Thickness**	**Finite VSIC for 2 Meter Source Thickness**	**Particulate Soil Inhalation Criteria**	**Direct Contact Criteria**	**Soil Saturation Concentration Screening Levels**	**Sample Location**	**Location A**	**Location B**	**Location C**	**Location D**
												Collection Date	**03/07/24**	**03/07/24**	**03/07/24**	**03/07/24**
												Depth	**Surface**	**Surface**	**Surface**	**Surface**
Nitrobenzene (I)	98-95-3	NA	330 (M); 68	3,600 (X)	91,000	54,000	54,000	54,000	4.7E+7	1.0E+5	4.9E+5		<330	<330	<330	<330
2-Nitrophenol	88-75-5	NA	400	ID	NLV	NLV	NLV	NLV	ID	6.3E+5	NA		<330	<330	<330	<330
4-Nitrophenol	100-02-7	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV		<830	<830	<830	<830
N-Nitrosodimethylamine	62-75-9	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV		<330	<330	<330	<330
n-Nitroso-di-n-propylamine	621-64-7	NA	330 (M); 100	NA	NLV	NLV	NLV	NLV	1.6E+6	1,200	1.5E+6		<330	<330	<330	<330
N-Nitrosodiphenylamine	86-30-6	NA	5,400	NA	NLV	NLV	NLV	NLV	2.2E+9	1.7E+6	NA		<330	<330	<330	<330
Pentachlorophenol	87-86-5	NA	22	(G,X)	NLV	NLV	NLV	NLV	1.0E+8	90,000	NA		<20	<20	<20	<20
Phenol	108-95-2	NA	88,000	9,000	NLV	NLV	NLV	NLV	4.0E+10	4.0E+7 (C,DD)	1.2E+7		<330	<330	<330	<330
Pyridine (I)	110-86-1	NA	400	NA	1,100	8,200	40,000	97,000	2.3E+8	2.3E+5 (C)	37,000		<330	<330	<330	<330
2,4,5-Trichlorophenol	95-95-4	NA	39,000	NA	NLV	NLV	NLV	NLV	2.3E+10	2.3E+7	NA		<330	<330	<330	<330
2,4,6-Trichlorophenol	88-06-2	NA	2,400	330 (M); 100	NLV	NLV	NLV	NLV	1.0E+9	7.1E+5	NA		<330	<330	<330	<330
SVOCs, Polynuclear Aromatic Hydrocarbons (PNAs)																
Acenaphthene	83-32-9	NA	3.0E+5	8,700	1.9E+8	8.1E+7	8.1E+7	8.1E+7	1.4E+10	4.1E+7	NA		<330	<330	<330	<330
Acenaphthylene	208-96-8	NA	5,900	ID	1.6E+6	2.2E+6	2.2E+6	2.2E+6	2.3E+9	1.6E+6	NA		<330	<330	<330	<330
Anthracene	120-12-7	NA	41,000	ID	1.0E+9 (D)	1.4E+9	1.4E+9	1.4E+9	6.7E+10	2.3E+8	NA		<330	<330	<330	<330
Benzo(a)anthracene (Q)	56-55-3	NA	NLL	NLL	NLV	NLV	NLV	NLV	ID	20,000	NA		<330	<330	<330	<330
Benzo(a)pyrene (Q)	50-32-8	NA	NLL	NLL	NLV	NLV	NLV	NLV	1.5E+6	2,000	NA		<330	<330	<330	<330
Benzo(b)fluoranthene (Q)	205-99-2	NA	NLL	NLL	ID	ID	ID	ID	ID	20,000	NA		<330	<330	<330	<330
Benzo(g,h,i)perylene	191-24-2	NA	NLL	NLL	NLV	NLV	NLV	NLV	8.0E+8	2.5E+6	NA		<330	<330	<330	<330
Benzo(k)fluoranthene (Q)	207-08-9	NA	NLL	NLL	NLV	NLV	NLV	NLV	ID	2.0E+5	NA		<330	<330	<330	<330
Chrysene (Q)	218-01-9	NA	NLL	NLL	ID	ID	ID	ID	ID	2.0E+6	NA		<330	<330	<330	<330
Dibenzo(a,h)anthracene (Q)	53-70-3	NA	NLL	NLL	NLV	NLV	NLV	NLV	ID	2,000	NA		<330	<330	<330	<330
Fluoranthene	206-44-0	NA	7.3E+5	5,500	1.0E+9 (D)	7.4E+8	7.4E+8	7.4E+8	9.3E+9	4.6E+7	NA		<330	<330	<330	<330
Fluorene	86-73-7	NA	3.9E+5	5,300	5.8E+8	1.3E+8	1.3E+8	1.3E+8	9.3E+9	2.7E+7	NA		<330	<330	<330	<330
Indeno(1,2,3-cd)pyrene (Q)	193-39-5	NA	NLL	NLL	NLV	NLV	NLV	NLV	ID	20,000	NA		<330	<330	<330	<330
2-Methylnaphthalene	91-57-6	NA	57,000	4,200	2.7E+6	1.5E+6	1.5E+6	1.5E+6	6.7E+8	8.1E+6	NA		<330	<330	<330	<330
Phenanthrene	85-01-8	NA	56,000	2,100	2.8E+6	1.6E+5	1.6E+5	1.6E+5	6.7E+6	1.6E+6	NA		<330	<330	<330	<330
Pyrene	129-00-0	NA	4.8E+5	ID	1.0E+9 (D)	6.5E+8	6.5E+8	6.5E+8	6.7E+9	2.9E+7	NA		<330	<330	<330	<330
Toxaphene																
Toxaphene	8001-35-2	NA	24,000	8,200	NLV	NLV	NLV	NLV	9.7E+6	20,000	NA		<170	<170	<170	<170
Volatile Organic Compounds (VOCs)																
Acetone (I)	67-64-1	NA	15,000	34,000	2.9E+8 (C)	1.3E+8	1.3E+8	1.9E+8	3.9E+11	2.3E+7	1.1E+8		<1,000	<1,000	<1,000	<1,000
Benzene (I)	71-43-2	NA	100	4,000 (X)	1,600	13,000	34,000	79,000	3.8E+8	1.8E+5	4.0E+5		<50	<50	<50	<50
Bromobenzene (I)	108-86-1	NA	550	NA	3.1E+5	4.5E+5	4.5E+5	4.5E+5	5.3E+8	5.4E+5	7.6E+5		<100	<100	<100	<100
Bromochloromethane	74-97-5	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV		<100	<100	<100	<100
Bromodichloromethane	75-27-4	NA	1,600 (W)	ID	1,200	9,100	9,700	19,000	8.4E+7	1.1E+5	1.5E+6		<100	<100	<100	<100
Bromoform	75-25-2	NA	1,600 (W)	ID	1.5E+5	9.0E+5	9.0E+5	9.0E+5	2.8E+9	8.2E+5	8.7E+5		<100	<100	<100	<100
Bromomethane	74-83-9	NA	200	100	860	11,000	57,000	1.4E+5	3.3E+8	3.2E+5	2.2E+6		<200	<200	<200	<200
2-Butanone (MEK) (I)	78-93-3	NA	2.6E+5	44,000	5.4E+7 (C)	2.9E+7	2.9E+7	3.5E+7	6.7E+10	1.2E+8 (C,DD)	2.7E+7		<750	<750	<750	<750
n-Butylbenzene	104-51-8	NA	1,600	ID	ID	ID	ID	ID	2.0E+9	2.5E+6	1.0E+7		<50	<50	<50	<50
sec-Butylbenzene	135-98-8	NA	1,600	ID	ID	ID	ID	ID	4.0E+8	2.5E+6	1.0E+7		<50	<50	<50	<50
tert-Butylbenzene (I)	98-06-6	NA	1,600	ID	ID	ID	ID	ID	6.7E+8	2.5E+6	1.0E+7		<50	<50	<50	<50
Carbon disulfide (I,R)	75-15-0	NA	16,000	ID	76,000	1.3E+6	7.9E+6	1.9E+7	4.7E+10	7.2E+6 (C,DD)	2.8E+5		<250	<250	<250	<250
Carbon tetrachloride	56-23-5	NA	100	760 (X)	190	3,500	12,000	28,000	1.3E+8	96,000	3.9E+5		<50	<50	<50	<50
Chlorobenzene (I)	108-90-7	NA	2,000	500	1.2E+5	7.7E+5	9.9E+5	2.1E+6	4.7E+9	4.3E+6 (C)	2.6E+5		<50	<50	<50	<50
Chloroethane	75-00-3	NA	8,600	22,000 (X)	2.9E+6 (C)	3.0E+7	1.2E+8	2.8E+8	6.7E+11	2.6E+6 (C)	9.5E+5		<250	<250	<250	<250
Chloroform	67-66-3	NA	1,600 (W)	7,000	7,200	45,000	1.2E+5	2.7E+5	1.3E+9	1.2E+6	1.5E+6		<50	<50	<50	<50

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Table 1 - Summary of Sediment Analytical Results
Galloway Creek
Auburn Hills, Michigan
AKT Peerless Project No. 13038F-5-20

		EGLE Part 201 Residential Cleanup Criteria														
Parameters (Refer to detailed laboratory report for method reference data)	**Chemical Abstract Service Number**	**Statewide Default Background Levels**	**Drinking Water Protection Criteria**	**Groundwater Surface Water Interface Protection Criteria**	**Soil Volatilization to Indoor Air Inhalation Criteria**	**Infinite Source Volatile Soil Inhalation Criteria (VSIC)**	**Finite VSIC for 5 Meter Source Thickness**	**Finite VSIC for 2 Meter Source Thickness**	**Particulate Soil Inhalation Criteria**	**Direct Contact Criteria**	**Soil Saturation Concentration Screening Levels**	**Sample Location**	**Location A**	**Location B**	**Location C**	**Location D**
												Collection Date	**03/07/24**	**03/07/24**	**03/07/24**	**03/07/24**
												Depth	**Surface**	**Surface**	**Surface**	**Surface**
Chloromethane (I)	74-87-3	NA	5,200	ID	2,300	40,000	4.1E+5	1.0E+6	4.9E+9	1.6E+6 (C)	1.1E+6		<250	<250	<250	<250
2-Chlorotoluene (I)	95-49-8	NA	3,300	ID	2.7E+5	1.2E+6	2.9E+6	6.3E+6	4.7E+9	4.5E+6 (C)	5.0E+5		<50	<50	<50	<50
4-Chlorotoluene (I)	106-43-4	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV		<50	<50	<50	<50
Dibromochloromethane	124-48-1	NA	1,600 (W)	ID	3,900	24,000	24,000	33,000	1.3E+8	1.1E+5	6.1E+5		<100	<100	<100	<100
Dibromochloropropane	96-12-8	NA	10 (M); 4.0	ID	220	260	260	260	5.6E+5	4,400 (C)	1,200		<10	<10	<10	<10
Dibromomethane	74-95-3	NA	1,600	NA	ID	ID	ID	ID	ID	2.5E+6 (C)	2.0E+6		<250	<250	<250	<250
1,2-Dichlorobenzene	95-50-1	NA	14,000	280	1.1E+7 (C)	3.9E+7	3.9E+7	5.2E+7	1.0E+11	1.9E+7 (C)	2.1E+5		<100	<100	<100	<100
1,3-Dichlorobenzene	541-73-1	NA	170	680	26,000	79,000	79,000	1.1E+5	2.0E+8	2.0E+5 (C)	1.7E+5		<100	<100	<100	<100
1,4-Dichlorobenzene	106-46-7	NA	1,700	360	19,000	77,000	77,000	1.1E+5	4.5E+8	4.0E+5	NA		<100	<100	<100	<100
Dichlorodifluoromethane	75-71-8	NA	95,000	ID	9.0E+5	5.3E+7	5.5E+8	1.4E+9	3.3E+12	5.2E+7 (C)	1.0E+6		<250	<250	<250	<250
1,1-Dichloroethane	75-34-3	NA	18,000	15,000	2.3E+5	2.1E+6	5.9E+6	1.4E+7	3.3E+10	2.7E+7 (C)	8.9E+5		<50	<50	<50	<50
1,2-Dichloroethane (I)	107-06-2	NA	100	7,200 (X)	2,100	6,200	11,000	26,000	1.2E+8	91,000	1.2E+6		<50	<50	<50	<50
cis-1,2-Dichloroethylene	156-59-2	NA	1,400	12,000	22,000	1.8E+5	4.2E+5	9.9E+5	2.3E+9	2.5E+6 (C)	6.4E+5		<50	<50	<50	<50
trans-1,2-Dichloroethylene	156-60-5	NA	2,000	30,000 (X)	23,000	2.8E+5	8.3E+5	2.0E+6	4.7E+9	3.8E+6 (C)	1.4E+6		<50	<50	<50	<50
1,1-Dichloroethylene (I)	75-35-4	NA	140	2,600	62	1,100	5,300	13,000	6.2E+7	2.0E+5	5.7E+5		<50	<50	<50	<50
1,2-Dichloropropane (I)	78-87-5	NA	100	4,600 (X)	4,000	25,000	50,000	1.1E+5	2.7E+8	1.4E+5	5.5E+5		<50	<50	<50	<50
1,3-Dichloropropane	142-28-9	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV		<50	<50	<50	<50
2,2-Dichloropropane	594-20-7	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV		<50	<50	<50	<50
1,1-Dichloropropene	563-58-6	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV		<50	<50	<50	<50
1,3-Dichloropropene	542-75-6	NA	170	180 (X)	1,000	18,000	68,000	1.6E+5	7.8E+8	10,000	6.2E+5		<50	<50	<50	<50
Ethylbenzene (I)	100-41-4	NA	1,500	360	87,000	7.2E+5	1.0E+6	2.2E+6	1.0E+10	2.2E+7 (C)	1.4E+5		<50	<50	<50	<50
Ethylene dibromide	106-93-4	NA	20 (M); 1.0	110 (X)	670	1,700	1,700	3,300	1.4E+7	92	8.9E+5		<20	<20	<20	<20
2-Hexanone	591-78-6	NA	20,000	ID	9.9E+5	1.1E+6	1.1E+6	1.4E+6	2.7E+9	3.2E+7 (C)	2.5E+6		<2,500	<2,500	<2,500	<2,500
Isopropyl benzene	98-82-8	NA	91,000	3,200	4.0E+5 (C)	1.7E+6	1.7E+6	2.8E+6	5.8E+9	2.5E+7 (C)	3.9E+5		<250	<250	<250	<250
4-Methyl-2-pentanone (MIBK) (I)	108-10-1	NA	36,000	ID	3.7E+7 (C)	4.5E+7	4.5E+7	6.7E+7	1.4E+11	5.6E+7 (C)	2.7E+6		<2,500	<2,500	<2,500	<2,500
Methylene chloride	75-09-2	NA	100	30,000 (X)	45,000	2.1E+5	5.9E+5	1.4E+6	6.6E+9	1.3E+6	2.3E+6		<250	<250	<250	<250
Methyl-tert-butyl ether (MTBE)	1634-04-4	NA	800	1.4E+5 (X)	9.9E+6 (C)	2.5E+7	3.9E+7	8.7E+7	2.0E+11	1.5E+6	5.9E+6		<250	<250	<250	<250
Naphthalene	91-20-3	NA	35,000	730	2.5E+5	3.0E+5	3.0E+5	3.0E+5	2.0E+8	1.6E+7	NA		<250	<250	<250	<250
n-Propylbenzene (I)	103-65-1	NA	1,600	ID	ID	ID	ID	ID	1.3E+9	2.5E+6	1.0E+7		<100	<100	<100	<100
Styrene	100-42-5	NA	2,700	2,100 (X)	2.5E+5	9.7E+5	9.7E+5	1.4E+6	5.5E+9	4.0E+5	5.2E+5		<50	<50	<50	<50
1,1,1,2-Tetrachloroethane	630-20-6	NA	1,500	ID	6,200	36,000	54,000	1.0E+5	4.2E+8	4.8E+5 (C)	4.4E+5		<100	<100	<100	<100
1,1,2,2-Tetrachloroethane	79-34-5	NA	170	1,600 (X)	4,300	10,000	10,000	14,000	5.4E+7	53,000	8.7E+5		<50	<50	<50	<50
Tetrachloroethylene	127-18-4	NA	100	1,200 (X)	11,000	1.7E+5	4.8E+5	1.1E+6	2.7E+9	2.0E+5 (C)	88,000		<50	<50	<50	<50
Tetrahydrofuran	109-99-9	NA	1,900	2.2E+5 (X)	1.3E+6	1.3E+7	6.7E+7	1.6E+8	3.9E+11	2.9E+6	1.2E+8		<1,000	<1,000	<1,000	<1,000
Toluene (I)	108-88-3	NA	16,000	5,400	3.3E+5 (C)	2.8E+6	5.1E+6	1.2E+7	2.7E+10	5.0E+7 (C)	2.5E+5		<100	<100	<100	<100
1,2,3-Trichlorobenzene	87-61-6	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV		<250	<250	<250	<250
1,2,4-Trichlorobenzene	120-82-1	NA	4,200	5,900 (X)	9.6E+6 (C)	2.8E+7	2.8E+7	2.8E+7	2.5E+10	9.9E+5 (DD)	1.1E+6		<250	<250	<250	<250
1,1,1-Trichloroethane	71-55-6	NA	4,000	1,800	2.5E+5	3.8E+6	1.2E+7	2.8E+7	6.7E+10	5.0E+8 (C)	4.6E+5		<50	<50	<50	<50
1,1,2-Trichloroethane	79-00-5	NA	100	6,600 (X)	4,600	17,000	21,000	44,000	1.9E+8	1.8E+5	9.2E+5		<50	<50	<50	<50
Trichloroethylene	79-01-6	NA	100	4,000 (X)	1,000	11,000	25,000	57,000	1.3E+8	1.1E+5 (DD)	5.0E+5		<50	<50	<50	<50
Trichlorofluoromethane	75-69-4	NA	52,000	NA	2.8E+6 (C)	9.2E+7	6.3E+8	1.5E+9	3.8E+12	7.9E+7 (C)	5.6E+5		<100	<100	<100	<100
1,2,3-Trichloropropane	96-18-4	NA	840	NA	4,000	9,200	9,200	11,000	2.0E+7	1.3E+6 (C)	8.3E+5		<100	<100	<100	<100
1,2,3-Trimethylbenzene	526-73-8	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV		<100	<100	<100	<100
1,2,4-Trimethylbenzene (I)	95-63-6	NA	2,100	570	4.3E+6 (C)	2.1E+7	5.0E+8	5.0E+8	8.2E+10	3.2E+7 (C)	1.1E+5		<100	<100	<100	<100
1,3,5-Trimethylbenzene (I)	108-67-8	NA	1,800	1,100	2.6E+6 (C)	1.6E+7	3.8E+8	3.8E+8	8.2E+10	3.2E+7 (C)	94,000		<100	<100	<100	<100
Vinyl acetate (I)	108-05-4	NA	13,000	NA	7.9E+5	1.7E+6	2.6E+6	5.8E+6	1.3E+10	5.8E+6 (C,DD)	2.4E+6		<5,000	<5,000	<5,000	<5,000
Vinyl chloride	75-01-4	NA	40	260 (X)	270	4,200	30,000	73,000	3.5E+8	3,800	4.9E+5		<40	<40	<40	<40
Xylenes (I)	1330-20-7	NA	5,600	980	6.3E+6 (C)	4.6E+7	6.1E+7	1.3E+8	2.9E+11	4.1E+8 (C)	1.5E+5		<150	<150	<150	<150

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Table 2: Summary of Surface Water Analytical Results
Galloway Creek
Auburn Hills, Michigan
AKT Peerless Project No. 13038F-5-20

Parameters (Refer to detailed laboratory report for method reference data)	Chemical Abstract Service Number	EGLE Part 201 Residential/Part 31					Sample Location	Location A	Location B	Location C	Location D
		Drinking Water Criteria	Groundwater Surface Water Interface Criteria	Groundwater Volatilization to Indoor Air Inhalation Criteria	Water Solubility	Flammability and Explosivity Screening Level	Collection Date	03/07/24	03/07/24	03/07/24	03/07/24
							Screen Depth	Surface	Surface	Surface	Surface
UNITS	NA	ug/L	ug/L	ug/L	ug/L	ug/L		ug/L	ug/L	ug/L	ug/L
Metals											
Arsenic	7440-38-2	10 (A)	10	NLV	NA	ID		<5.0	<5.0	<5.0	<5.0
Barium (B)	7440-39-3	2,000 (A)	**260 (G)**	NLV	NA	ID		**301**	**447**	**499**	**564**
Cadmium (B)	7440-43-9	5.0 (A)	1.6 (G,X)	NLV	NA	ID		<1.0	<1.0	<1.0	<1.0
Chromium, Total	7440-47-3	100 (A)	NA	NLV	NA	ID		<5.0	<5.0	<5.0	<5.0
Chromium VI	18540-29-9	100 (A)	11	NLV	NA	ID		<10	<10	<10	<10
Copper (B)	7440-50-8	1,000 (E)	**5.9 (G)**	NLV	NA	ID		**9**	<4.0	<4.0	**7**
Lead (B)	7439-92-1	4.0 (L)	17 (G,X)	NLV	NA	ID		<3.0	<3.0	<3.0	<3.0
Mercury, Total	7439-97-6	2.0 (A)	0.0013	56 (S)	56	ID		<0.20	<0.20	<0.20	<0.20
Selenium (B)	7782-49-2	50 (A)	5.0	NLV	NA	ID		<5.0	<5.0	<5.0	<5.0
Silver (B)	7440-22-4	34	0.2 (M); 0.06	NLV	NA	ID		<0.20	<0.20	<0.20	<0.20
Zinc (B)	7440-66-6	2,400	78 (G)	NLV	NA	ID		<50	<50	<50	<50
Polychlorinated biphenyls (PCBs)											
PCB, Aroclor 1016	12674-11-2	NLV	NLV	NLV	NLV	NLV		<0.20	<0.20	<0.20	<0.20
PCB, Aroclor 1221	11104-28-2	NLV	NLV	NLV	NLV	NLV		<0.20	<0.20	<0.20	<0.20
PCB, Aroclor 1232	11141-16-5	NLV	NLV	NLV	NLV	NLV		<0.20	<0.20	<0.20	<0.20
PCB, Aroclor 1242	53469-21-9	NLV	NLV	NLV	NLV	NLV		<0.20	<0.20	<0.20	<0.20
PCB, Aroclor 1248	12672-29-6	NLV	NLV	NLV	NLV	NLV		<0.20	<0.20	<0.20	<0.20
PCB, Aroclor 1254	11097-69-1	NLV	NLV	NLV	NLV	NLV		<0.20	<0.20	<0.20	<0.20
PCB, Aroclor 1260	11096-82-5	NLV	NLV	NLV	NLV	NLV		<0.20	<0.20	<0.20	<0.20
PCB, Aroclor 1262	37324-23-5	NLV	NLV	NLV	NLV	NLV		NS	NS	NS	NS
PCB, Aroclor 1268	11100-14-4	NLV	NLV	NLV	NLV	NLV		NS	NS	NS	NS
Polychlorinated biphenyls (PCBs) (J,T)	1336-36-3	0.5 (A)	0.2 (M); 2.6E-5	45 (S)	44.7	ID		<2.0	<2.0	<2.0	<2.0
Organochlorine Herbicides											
2,4-DB	94826	NLV	NLV	NLV	NLV	NLV		<10	<10	<10	<10
2,4,5-T	93765	NLV	NLV	NLV	NLV	NLV		<10	<10	<10	<10
Dalapon	75-99-0	200 (A)	NA	NLV	5.02E+8	ID		<10	<10	<10	<10
Dicamba	1918-00-9	220	NA	NLV	4.5E+6	ID		<1.0	<1.0	<1.0	<1.0
2,4-Dichlorophenoxyacetic acid	94-75-7	70 (A)	220	NLV	6.80E+5	ID		<10	<10	<10	<10
Dichloroprop	15165670	NLV	NLV	NLV	NLV	NLV		<10	<10	<10	<10
Dinoseb	88-85-7	7.0 (A)	1.0 (M); 0.48	NLV	52,000	ID		<1.0	<1.0	<1.0	<1.0
MCPA	94746	7.3	NA	NLV	9.24E+05	ID		<100	<100	<100	<100
MCPP	7085190	NLV	NLV	NLV	NLV	NLV		<100	<100	<100	<100
Silvex (2,4,5-TP)	93-72-1	50 (A)	30	NLV	1.40E+5	ID		<30	<30	<30	<30
Organochlorine Pesticides											
Aldrin	309-00-2	0.098	0.01 (M); 8.7E-6	180 (S)	180	ID		<0.010	<0.010	<0.010	<0.010
Chlordane (J)	57-74-9	2.0 (A)	2.0 (M); 0.00025	56 (S)	56	ID		<0.050	<0.050	<0.050	<0.050
4-4'-DDD	72-54-8	9.1	NA	NLV	90	ID		<0.1	<0.1	<0.1	<0.1
4-4'-DDE	72-55-9	4.3	NA	NLV	120	ID		<0.1	<0.1	<0.1	<0.1
4-4'-DDT	50-29-3	3.6	0.02 (M); 1.1E-5	NLV	25	NA		<0.020	<0.020	<0.020	<0.020
Dieldrin	60-57-1	0.11	0.02 (M); 6.5E-6	200 (S)	195	ID		<0.020	<0.020	<0.020	<0.020
Endosulfan I	959-98-8	NLV	NLV	NLV	NLV	NLV		<0.015	<0.015	<0.015	<0.015
Endosulfan II	33213-65-9	NLV	NLV	NLV	NLV	NLV		<0.015	<0.015	<0.015	<0.015
Endosulfan (J)	115-29-7	44	0.03 (M); 0.029	ID	510	ID		<0.03	<0.03	<0.03	<0.03
Endosulfan sulfate	1031078	NLV	NLV	NLV	NLV	NLV		<0.050	<0.050	<0.050	<0.050

Table 2: Summary of Surface Water Analytical Results
Galloway Creek
Auburn Hills, Michigan
AKT Peerless Project No. 13038F-5-20

Parameters (Refer to detailed laboratory report for method reference data)	Chemical Abstract Service Number	EGLE Part 201 Residential/Part 31					Sample Location	Location A	Location B	Location C	Location D
		Drinking Water Criteria	Groundwater Surface Water Interface Criteria	Groundwater Volatilization to Indoor Air Inhalation Criteria	Water Solubility	Flammability and Explosivity Screening Level	Collection Date	03/07/24	03/07/24	03/07/24	03/07/24
							Screen Depth	Surface	Surface	Surface	Surface
Endrin	72-20-8	2.0 (A)	ID	NLV	250	ID		<0.020	<0.020	<0.020	<0.020
Endrin aldehyde	7421934	NLV	NLV	NLV	NLV	NLV		<0.020	<0.020	<0.020	<0.020
Heptachlor	76-44-8	0.4 (A)	0.01 (M); 0.0018	180 (S)	180	ID		<0.010	<0.010	<0.010	<0.010
Heptachlor epoxide	1024-57-3	0.2 (A)	ID	NLV	200	ID		<0.010	<0.010	<0.010	<0.010
Hexachlorobutadiene (C-46)	87-68-3	15	0.053	1,600	3,230	ID		<0.2	<0.2	<0.2	<0.2
alpha-Hexachlorocyclohexane	319-84-6	0.43	ID	2,000 (S)	2,000	ID		<0.050	<0.050	<0.050	<0.050
beta-Hexachlorocyclohexane	319-85-7	0.88	ID	NLV	240	ID		<0.050	<0.050	<0.050	<0.050
delta-Hexachlorocyclohexane	319-86-8	NLV	NLV	NLV	NLV	NLV		<0.010	<0.010	<0.010	<0.010
Lindane	58-89-9	0.2 (A)	0.03 (M); 0.026	ID	6,800	ID		<0.030	<0.030	<0.030	<0.030
Methoxychlor	72-43-5	40 (A)	NA	ID	45	ID		<0.50	<0.50	<0.50	<0.50
Semivolatile Organic Compounds (SVOCs)											
Aniline	62-53-3	53	4.0 (M); 3.0	NLV	3.60E+7	NA		<4.0	<4.0	<4.0	<4.0
Azobenzene	103-33-3	23	ID	6,400 (S)	6,400	ID		<2.0	<2.0	<2.0	<2.0
Benzidine	92-87-5	0.3 (M); 0.0037	0.3 (M); 0.073	NLV	5.20E+5	ID		<2.0	<2.0	<2.0	<2.0
Benzyl alcohol	100-51-6	10,000	NA	NLV	4.40E+7	ID		<50	<50	<50	<50
4-Bromophenyl Phenylether	101-55-3	NLV	NLV	NLV	NLV	NLV		<5.0	<5.0	<5.0	<5.0
Butyl benzyl phthalate	85-68-7	1,200	67 (X)	NLV	2,690	ID		<5.0	<5.0	<5.0	<5.0
Carbazole	86-74-8	85	10 (M); 4.0	NLV	7,480	ID		<10	<10	<10	<10
4-Chloroaniline	106-47-8	NLS	NLS	NLS	NLS	NLS		<10	<10	<10	<10
4-Chloro-3-methylphenol	59-50-7	150	7.4	NLV	3.90E+6	ID		<5.0	<5.0	<5.0	<5.0
Bis(2-chloroethoxy)methane	111-91-1	NLV	NLV	NLV	NLV	NLV		<5.0	<5.0	<5.0	<5.0
bis(2-Chloroethyl)ether (I)	111-44-4	2.0	1.0 (M); 0.79	38,000	1.72E+7	1.7E+7 (S)		<1.0	<1.0	<1.0	<1.0
Bis(2-chloroisopropyl) Ether	108-60-1	NLV	NLV	NLV	NLV	NLV		<5.0	<5.0	<5.0	<5.0
beta-Chloronaphthalene	91-58-7	1,800	NA	ID	6,740	ID		<5.0	<5.0	<5.0	<5.0
2-Chlorophenol	95-57-8	45	18	4.9E+5	2.20E+7	ID		<10	<10	<10	<10
4-Chlorophenyl Phenylether	7005-72-3	NLV	NLV	NLV	NLV	NLV		<5.0	<5.0	<5.0	<5.0
Dibenzofuran	132-64-9	ID	4.0	10,000 (S)	10,000	ID		<4.0	<4.0	<4.0	<4.0
3,3'-Dichlorobenzidine	91-94-1	1.1	0.3 (M); 0.2	NLV	3,110	ID		<2.0	<2.0	<2.0	<2.0
2,4-Dichlorophenol	120-83-2	73	11	NLV	4.50E+6	ID		<10	<10	<10	<10
Diethyl phthalate	84-66-2	5,500	110	NLV	1.08E+6	NA		<5.0	<5.0	<5.0	<5.0
2,4-Dimethylphenol	105-67-9	370	380	NLV	7.87E+6	ID		<5.0	<5.0	<5.0	<5.0
Dimethyl phthalate	131-11-3	73,000	NA	NLV	4.19E+6	NA		<5.0	<5.0	<5.0	<5.0
Di-n-butyl phthalate	84-74-2	880	9.7	NLV	11,200	NA		<5.0	<5.0	<5.0	<5.0
2,4-Dinitrophenol	51-28-5	NLV	NLV	NLV	NLV	NLV		<25	<25	<25	<25
2,4-Dinitrotoluene	121-14-2	7.7	NA	NLV	2.70E+5	ID		<5.0	<5.0	<5.0	<5.0
2,6-Dinitrotoluene	606-20-2	NLV	NLV	NLV	NLV	NLV		<5.0	<5.0	<5.0	<5.0
Di-n-octyl phthalate	117-84-0	130	ID	NLV	3,000	ID		<5.0	<5.0	<5.0	<5.0
bis(2-Ethylhexyl)phthalate	117-81-7	6.0 (A)	14	NLV	340	NA		<5.0	<5.0	<5.0	<5.0
Hexachlorobenzene (C-66)	118-74-1	1.0 (A)	0.2 (M); 0.0003	440	6,200	ID		<1.0	<1.0	<1.0	<1.0
Hexachlorocyclopentadiene (C-56)	77-47-4	50 (A)	ID	130	1,800	ID		<5.0	<5.0	<5.0	<5.0
Hexachloroethane	67-72-1	7.3	6.7 (X)	27,000	50,000	ID		<5.0	<5.0	<5.0	<5.0
Isophorone	78-59-1	770	1,300 (X)	NLV	1.20E+7	ID		<5.0	<5.0	<5.0	<5.0
2-Methyl-4,6-dinitrophenol	534-52-1	20 (M); 2.6	NA	NLV	2.00E+5	ID		<20	<20	<20	<20
Methylphenol, 2-	95-48-7	NLV	82	NLV	NLV	NLV		<10	<10	<10	<10
Methylphenol, 3- and 4-	MEPH1314	NLV	25	NLV	NLV	NLV		<10	<10	<10	<10
Methylphenols (J)	1319-77-3	370	30 (M); 25	NLV	2.80E+7	NA		<30	<30	<30	<30
2-Nitroaniline	88-74-4	NLV	NLV	NLV	NLV	NLV		<25	<25	<25	<25
3-Nitroaniline	99-09-2	NLV	NLV	NLV	NLV	NLV		<25	<25	<25	<25
4-Nitroaniline	100-01-6	NLV	NLV	NLV	NLV	NLV		<25	<25	<25	<25

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		Drinking Water Criteria	Groundwater Surface Water Interface Criteria	Groundwater Volatilization to Indoor Air Inhalation Criteria	Water Solubility	Flammability and Explosivity Screening Level	Collection Date	03/07/24	03/07/24	03/07/24	03/07/24
							Screen Depth	Surface	Surface	Surface	Surface
Nitrobenzene (I)	98-95-3	3.4	180 (X)	2.8E+5	2.09E+6	NA		<3.0	<3.0	<3.0	<3.0
2-Nitrophenol	88-75-5	20	ID	NLV	2.50E+6	ID		<5.0	<5.0	<5.0	<5.0
4-Nitrophenol	100-02-7	NLV	NLV	NLV	NLV	NLV		<25	<25	<25	<25
N-Nitrosodimethylamine	62-75-9	NLV	NLV	NLV	NLV	NLV		NA	NA	NA	NA
n-Nitroso-di-n-propylamine	621-64-7	5.0 (M); 0.19	NA	NLV	9.89E+6	ID		<5.0	<5.0	<5.0	<5.0
N-Nitrosodiphenylamine	86-30-6	270	NA	NLV	35,100	ID		<5.0	<5.0	<5.0	<5.0
Pentachlorophenol	87-86-5	1.0 (A)	(G,X)	NLV	1.85E+6	ID		<1.0	<1.0	<1.0	<1.0
Phenol	108-95-2	4,400	450	NLV	8.28E+7	NA		<5.0	<5.0	<5.0	<5.0
Pyridine (I)	110-86-1	20 (M); 7.3	NA	5,500	3.00E+5	81,000		<20	<20	<20	<20
2,4,5-Trichlorophenol	95-95-4	730	NA	NLV	1.20E+6	ID		<5.0	<5.0	<5.0	<5.0
2,4,6-Trichlorophenol	88-06-2	120	5.0	NLV	8.00E+5	ID		<4.0	<4.0	<4.0	<4.0
SVOCs, Polynuclear Aromatic Hydrocarbons (PNAs)											
Acenaphthene	83-32-9	1,300	38	4,200 (S)	4,240	ID		<5.0	<5.0	<5.0	<5.0
Acenaphthylene	208-96-8	52	ID	3,900 (S)	3,930	ID		<5.0	<5.0	<5.0	<5.0
Anthracene	120-12-7	43 (S)	ID	43 (S)	43.4	ID		<5.0	<5.0	<5.0	<5.0
Benzo(a)anthracene (Q)	56-55-3	2.1	ID	NLV	9.4	ID		<1.0	<1.0	<1.0	<1.0
Benzo(a)pyrene (Q)	50-32-8	5.0 (A)	ID	NLV	1.62	ID		<1.0	<1.0	<1.0	<1.0
Benzo(b)fluoranthene (Q)	205-99-2	1.5 (S, AA)	ID	ID	1.5	ID		<1.0	<1.0	<1.0	<1.0
Benzo(g,h,i)perylene	191-24-2	1.0 (M); 0.26 (S)	ID	NLV	0.26	ID		<1.0	<1.0	<1.0	<1.0
Benzo(k)fluoranthene (Q)	207-08-9	1.0 (M); 0.8 (S)	NA	NLV	0.8	ID		<1.0	<1.0	<1.0	<1.0
Chrysene (Q)	218-01-9	1.6 (S)	ID	ID	1.6	ID		<1.0	<1.0	<1.0	<1.0
Dibenzo(a,h)anthracene (Q)	53-70-3	2.0 (M); 0.21	ID	NLV	2.49	ID		<2.0	<2.0	<2.0	<2.0
Fluoranthene	206-44-0	210 (S)	1.6	210 (S)	206	ID		<1.0	<1.0	<1.0	<1.0
Fluorene	86-73-7	880	12	2,000 (S)	1,980	ID		<5.0	<5.0	<5.0	<5.0
Indeno(1,2,3-cd)pyrene (Q)	193-39-5	2.0 (M); 0.022 (S)	ID	NLV	0.022	ID		<2.0	<2.0	<2.0	<2.0
2-Methylnaphthalene	91-57-6	260	19	25,000 (S)	24,600	ID		<5.0	<5.0	<5.0	<5.0
Phenanthrene	85-01-8	52	2.0 (M); 1.7	1,000 (S)	1,000	ID		<2.0	<2.0	<2.0	<2.0
Pyrene	129-00-0	140 (S)	ID	140 (S)	135	ID		<5.0	<5.0	<5.0	<5.0
Toxaphene											
Toxaphene	8001-35-2	3.0 (A)	1.0 (M); 6.8E-5	NLV	740	ID		<1.0	<1.0	<1.0	<1.0
Volatile Organic Compounds (VOCs)											
Acetone (I)	67-64-1	730	1,700	1.0E+9 (D,S)	1.0E+9	1.5E+7		<50.0	<50.0	<50.0	<50.0
Benzene (I)	71-43-2	5.0 (A)	200 (X)	5,600	1.75E+6	68,000		<1.0	<1.0	<1.0	<1.0
Bromobenzene (I)	108-86-1	18	NA	1.8E+5	4.13E+5	ID		<1.0	<1.0	<1.0	<1.0
Bromochloromethane	74-97-5	NLV	NLV	NLV	NLV	NLV		<1.0	<1.0	<1.0	<1.0
Bromodichloromethane	75-27-4	80 (A,W)	ID	4,800	6.74E+6	ID		<1.0	<1.0	<1.0	<1.0
Bromoform	75-25-2	80 (A,W)	ID	4.7E+5	3.10E+6	ID		<1.0	<1.0	<1.0	<1.0
Bromomethane	74-83-9	10	5.0 (M); 4.2	4,000	1.45E+7	ID		<5.0	<5.0	<5.0	<5.0
2-Butanone (MEK) (I)	78-93-3	13,000	2,200	2.4E+8 (S)	2.40E+8	ID		<25	<25	<25	<25
n-Butylbenzene	104-51-8	80	ID	ID	NA	ID		<1.0	<1.0	<1.0	<1.0
sec-Butylbenzene	135-98-8	80	ID	ID	NA	ID		<1.0	<1.0	<1.0	<1.0
tert-Butylbenzene (I)	98-06-6	80	ID	ID	NA	ID		<1.0	<1.0	<1.0	<1.0
Carbon disulfide (I,R)	75-15-0	800	ID	2.5E+5	1.19E+6	13,000		<5.0	<5.0	<5.0	<5.0
Carbon tetrachloride	56-23-5	5.0 (A)	38 (X)	370	7.93E+5	ID		<1.0	<1.0	<1.0	<1.0

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Auburn Hills, Michigan
AKT Peerless Project No. 13038F-5-20

Parameters (Refer to detailed laboratory report for method reference data)	Chemical Abstract Service Number	EGLE Part 201 Residential/Part 31					Sample Location	Location A	Location B	Location C	Location D
		Drinking Water Criteria	Groundwater Surface Water Interface Criteria	Groundwater Volatilization to Indoor Air Inhalation Criteria	Water Solubility	Flammability and Explosivity Screening Level	Collection Date	03/07/24	03/07/24	03/07/24	03/07/24
							Screen Depth	Surface	Surface	Surface	Surface
Chlorobenzene (I)	108-90-7	100 (A)	25	2.1E+5	4.72E+5	1.6E+5		<1.0	<1.0	<1.0	<1.0
Chloroethane	75-00-3	430	1,100 (X)	5.7E+6 (S)	5.74E+6	1.1E+5		<5.0	<5.0	<5.0	<5.0
Chloroform	67-66-3	80 (A,W)	350	28,000	7.92E+6	ID		<1.0	<1.0	<1.0	<1.0
Chloromethane (I)	74-87-3	260	ID	8,600	6.34E+6	36,000		<5.0	<5.0	<5.0	<5.0
2-Chlorotoluene (I)	95-49-8	150	ID	2.2E+5	3.73E+5	ID		<5.0	<5.0	<5.0	<5.0
4-Chlorotoulene (I)	106-43-4	NLV	NLV	NLV	NLV	NLV		<5.0	<5.0	<5.0	<5.0
Dibromochloromethane	124-48-1	80 (A,W)	ID	14,000	2.60E+6	ID		<5.0	<5.0	<5.0	<5.0
Dibromochloropropane	96-12-8	0.2 (A)	ID	220	1,230	NA		<0.2	<0.2	<0.2	<0.2
Dibromomethane	74-95-3	80	NA	ID	1.10E+7	ID		<5.0	<5.0	<5.0	<5.0
1,2-Dichlorobenzene	95-50-1	600 (A)	13	1.6E+5 (S)	1.56E+5	NA		<1.0	<1.0	<1.0	<1.0
1,3-Dichlorobenzene	541-73-1	6.6	28	18,000	1.11E+5	ID		<1.0	<1.0	<1.0	<1.0
1,4-Dichlorobenzene	106-46-7	75 (A)	17	16,000	73,800	NA		<1.0	<1.0	<1.0	<1.0
Dichlorodifluoromethane	75-71-8	1,700	ID	2.2E+5	3.00E+5	ID		<5.0	<5.0	<5.0	<5.0
1,1-Dichloroethane	75-34-3	880	740	1.0E+6	5.06E+6	3.8E+5		<1.0	<1.0	<1.0	<1.0
1,2-Dichloroethane (I)	107-06-2	5.0 (A)	360 (X)	9,600	8.52E+6	2.5E+6		<1.0	<1.0	<1.0	<1.0
cis-1,2-Dichloroethylene	156-59-2	70 (A)	620	93,000	3.50E+6	5.3E+5		<1.0	<1.0	<1.0	<1.0
trans-1,2-Dichloroethylene	156-60-5	100 (A)	1,500 (X)	85,000	6.30E+6	2.3E+5		<1.0	<1.0	<1.0	<1.0
1,1-Dichloroethylene (I)	75-35-4	7.0 (A)	130	200	2.25E+6	97,000		<1.0	<1.0	<1.0	<1.0
1,2-Dichloropropane (I)	78-87-5	5.0 (A)	230 (X)	16,000	2.80E+6	5.5E+5		<1.0	<1.0	<1.0	<1.0
1,3-Dichloropropane	142-28-9	NLV	NLV	NLV	NLV	NLV		<1.0	<1.0	<1.0	<1.0
2,2-Dichloropropane	594-20-7	NLV	NLV	NLV	NLV	NLV		<1.0	<1.0	<1.0	<1.0
1,1-Dichloropropene	563-58-6	NLV	NLV	NLV	NLV	NLV		<1.0	<1.0	<1.0	<1.0
1,3-Dichloropropene	542-75-6	8.5	9.0 (X)	3,900	2.80E+6	1.3E+5		<1.0	<1.0	<1.0	<1.0
Ethylbenzene (I)	100-41-4	74 (E)	18	1.1E+5	1.69E+5	43,000		<1.0	<1.0	<1.0	<1.0
Ethylene dibromide	106-93-4	0.05 (A)	5.7 (X)	2,400	4.20E+6	ID		<0.2	<0.2	<0.2	<0.2
2-Hexanone	591-78-6	1,000	ID	4.2E+6	1.60E+7	NA		<50.0	<50.0	<50.0	<50.0
Isopropyl benzene	98-82-8	800	28	56,000 (S)	56,000	29,000		<5.0	<5.0	<5.0	<5.0
4-Methyl-2-pentanone (MIBK) (I)	108-10-1	1,800	ID	2.0E+7 (S)	2.00E+7	ID		<50.0	<50.0	<50.0	<50.0
Methylene chloride	75-09-2	5.0 (A)	1,500 (X)	2.2E+5	1.70E+7	ID		<5.0	<5.0	<5.0	<5.0
Methyl-tert-butyl ether (MTBE)	1634-04-4	40 (E)	7,100 (X)	4.7E+7 (S)	4.68E+7	ID		<5.0	<5.0	<5.0	<5.0
Naphthalene	91-20-3	520	11	31,000 (S)	31,000	NA		<5.0	<5.0	<5.0	<5.0
n-Propylbenzene (I)	103-65-1	80	ID	ID	NA	ID		<1.0	<1.0	<1.0	<1.0
Styrene	100-42-5	100 (A)	80 (X)	1.7E+5	3.10E+5	1.4E+5		<1.0	<1.0	<1.0	<1.0
1,1,1,2-Tetrachloroethane	630-20-6	77	ID	15,000	1.10E+6	ID		<1.0	<1.0	<1.0	<1.0
1,1,2,2-Tetrachloroethane	79-34-5	8.5	78 (X)	12,000	2.97E+6	ID		<1.0	<1.0	<1.0	<1.0
Tetrachloroethylene	127-18-4	5.0 (A)	60 (X)	25,000	2.0E+5	ID		<1.0	<1.0	<1.0	<1.0
Tetrahydrofuran	109-99-9	95	11,000 (X)	6.9E+6	1.0E+9	60,000		<90	<90	<90	<90
Toluene (I)	108-88-3	790 (E)	270	5.3E+5 (S)	5.26E+5	61,000		<1.0	<1.0	<1.0	<1.0
1,2,3-Trichlorobenzene	87-61-6	NLV	NLV	NLV	NLV	NLV		<5.0	<5.0	<5.0	<5.0
1,2,4-Trichlorobenzene	120-82-1	70 (A)	99 (X)	3.0E+5 (S)	3.00E+5	NA		<5.0	<5.0	<5.0	<5.0
1,1,1-Trichloroethane	71-55-6	200 (A)	89	6.6E+5	1.33E+6	ID		<1.0	<1.0	<1.0	<1.0
1,1,2-Trichloroethane	79-00-5	5.0 (A)	330 (X)	17,000	4.42E+6	NA		<1.0	<1.0	<1.0	<1.0
Trichloroethylene	79-01-6	5.0 (A)	200 (X)	2,200	1.10E+6	ID		<1.0	<1.0	<1.0	<1.0
Trichlorofluoromethane	75-69-4	2,600	NA	1.1E+6 (S)	1.10E+6	ID		<1.0	<1.0	<1.0	<1.0
1,2,3-Trichloropropane	96-18-4	42	NA	8,300	1.90E+6	NA		<1.0	<1.0	<1.0	<1.0
1,2,3-Trimethylbenzene	526-73-8	NLV	NLV	NLV	NLV	NLV		<1.0	<1.0	<1.0	<1.0
1,2,4-Trimethylbenzene (I)	95-63-6	63 (E)	17	56,000 (S)	55,890	56,000 (S)		<1.0	<1.0	<1.0	<1.0
1,3,5-Trimethylbenzene (I)	108-67-8	72 (E)	45	61,000 (S)	61,150	ID		<1.0	<1.0	<1.0	<1.0
Vinyl acetate (I)	108-05-4	640	NA	4.1E+6	2.00E+7	1.8E+6		<100	<100	<100	<100
Vinyl chloride	75-01-4	2.0 (A)	13 (X)	1,100	2.76E+6	33,000		<1.0	<1.0	<1.0	<1.0
Xylenes (I)	1330-20-7	280 (E)	49	1.9E+5 (S)	1.86E+5	70,000		<3.0	<3.0	<3.0	<3.0

AKTPEERLESS ENVIRONMENTAL SERVICES

R 299.49 FOOTNOTES FOR GENERIC CLEANUP CRITERIA TABLES

Cleanup Criteria Requirements for Response Activity (formerly the Part 201 Generic Cleanup Criteria and Screening Levels)

(as last revised by EGLE on October 12, 2023)

(A) Criterion is the state of Michigan drinking water standard established pursuant to Section 5 of 1976 PA 399, MCL 325.1005.

(B) Background, as defined in R 299.1(b), may be substituted if higher than the calculated cleanup criterion. Background levels may be less than criteria for some inorganic compounds.

(C) The criterion developed under R 299.20 to R 299.26 exceeds the chemical-specific soil saturation screening level (Csat). The person proposing or implementing response activity shall document whether additional response activity is required to control free-phase liquids or NAPL to protect against risks associated with free-phase liquids by using methods appropriate for the free-phase liquids present. Development of a site-specific Csat or methods presented in R 299.22, R 299.24(5), and R 299.26(8) may be conducted for the relevant exposure pathways.

(D) Calculated criterion exceeds 100 percent, hence it is reduced to 100 percent or 1.0E+9 parts per billion (ppb).

(E) Criterion is the aesthetic drinking water value, as required by Section 20120a(5) of the Natural Resources and Environmental Protection Act, 1994 PA 451, as amended (NREPA). A notice of aesthetic impact may be employed as an institutional control mechanism if groundwater concentrations exceed the aesthetic drinking water criterion, but do not exceed the applicable health-based drinking water value [as provided in the table in Footnote (E) in R 299.49].

(F) Criterion is based on adverse impacts to plant life and phytotoxicity.

(G) Groundwater surface water interface (GSI) criterion depends on the pH or water hardness, or both, of the receiving surface water. The final chronic value (FCV) for the protection of aquatic life shall be calculated based on the pH or hardness of the receiving surface water. Where water hardness exceeds 400 mg CaCO3/L, use 400 mg CaCO3/L for the FCV calculation. The FCV formula provides values in units of ug/L or ppb. The generic GSI criterion is the lesser of the calculated FCV, the wildlife value (WV), and the surface water human non-drinking water value (HNDV). The soil GSI protection criteria for these hazardous substances are the greater of the 20 times the GSI criterion or the GSI soil-water partition values using the GSI criteria developed with the procedure described in this footnote [See table in Footnote (G) in R 299.49].

(H) Valence-specific chromium data (Cr III and Cr VI) shall be compared to the corresponding valence-specific cleanup criteria. If both Cr III and Cr VI are present in groundwater, the total concentration of both cannot exceed the drinking water criterion of 100 ug/L. If analytical data are provided for total chromium only, they shall be compared to the cleanup criteria for Cr VI. Cr III soil cleanup criterion for protection of drinking water can only be used at sites where groundwater is prevented from being used as a public water supply, currently and in the future, through an approved land or resource use restriction.

(I) Hazardous substance may exhibit the characteristic of ignitability as defined in 40 C.F.R. §261.21 (revised as of July 1, 2001), which is adopted by reference in these rules.

(J) Hazardous substance may be present in several isomer forms. Isomer-specific concentrations shall be added together for comparison to criteria.

(K) Hazardous substance may be flammable or explosive, or both.

(L) Criteria for lead are derived using a biologically based model, as allowed for under Section 20120a(9) of the NREPA, and are not calculated using the algorithms and assumptions specified in pathway-specific rules. The generic residential drinking water criterion of 4 ug/L is linked to the generic residential soil direct contact criterion of 400 mg/kg. A higher concentration in the drinking water, up to the state action level of 15 ug/L, may be allowed as a site-specific remedy and still allow for drinking water use, under Section 20120a(2) of the NREPA if soil concentrations are appropriately lower than 400 mg/kg. If a site-specific criterion is approved based on this subdivision, a notice shall be filed on the deed for all property where the groundwater concentrations will exceed 4 ug/L to provide notice of the potential for unacceptable risk if soil or groundwater concentrations increase. Acceptable concentrations of site-specific soil and drinking water concentrations are presented in the [See table in Footnote (L) in R 299.49].

(M) Calculated criterion is below the analytical target detection limit, therefore, the criterion defaults to the target detection limit.

(N) The concentrations of all potential sources of nitrate-nitrogen (e.g., ammonia-N, nitrite-N, nitrate-N) in groundwater that is used as a source of drinking water shall not, when added together, exceed the nitrate drinking water criterion of 10,000 ug/L. Where leaching to groundwater is a relevant pathway, soil concentrations of all potential sources of nitrate-nitrogen shall not, when added together, exceed the nitrate drinking water protection criterion of 2.0E+5 µg/kg.

(O) The concentrations of all potential sources of nitrate-nitrogen (e.g., ammonia-N, nitrite-N, nitrate-N) in groundwater that is used as a source of drinking water shall not, when added together, exceed the nitrate drinking water criterion of 10,000 ug/L. Where leaching to groundwater is a relevant pathway, soil concentrations of all potential sources of nitrate-nitrogen shall not, when added together, exceed the nitrate drinking water protection criterion of 2.0E+5 µg/kg.

(P) The concentrations of all potential sources of nitrate-nitrogen (e.g., ammonia-N, nitrite-N, nitrate-N) in groundwater that is used as a source of drinking water shall not, when added together, exceed the nitrate drinking water criterion of 10,000 ug/L. Where leaching to groundwater is a relevant pathway, soil concentrations of all potential sources of nitrate-nitrogen shall not, when added together, exceed the nitrate drinking water protection criterion of 2.0E+5 µg/kg.

(Q) Criteria for carcinogenic polycyclic aromatic hydrocarbons were developed using relative potential potencies to benzo(a)pyrene.

(R) Hazardous substance may exhibit the characteristic of reactivity as defined in 40 C.F.R. §261.23 (revised as of July 1, 2001), which is adopted by reference in these rules.

(S) Criterion defaults to the hazardous substance-specific water solubility limit.

(T) Refer to the federal Toxic Substances Control Act (TSCA), 40 C.F.R. §761, subpart D and 40 C.F.R. §761, Subpart G, to determine the applicability of TSCA cleanup standards. Subpart D and subpart G of 40 C.F.R. §761 (July 1, 2001) are adopted by reference in these rules. Alternatives to compliance with the TSCA standards listed below are possible under 40 C.F.R. §761 Subpart D. New releases may be subject to the standards identified in 40 C.F.R. §761, Subpart G. Use Part 201 soil direct contact cleanup criteria in the following table if TSCA standards are not applicable. [See table in Footnote (T) in R 299.49].

(U) Hazardous substance may exhibit the characteristic of corrosivity as defined in 40 C.F.R. §261.22 (revised as of July 1, 2001), which is adopted by reference in these rules.

(V) Criterion is the aesthetic drinking water value as required by Section 20120(a)(5) of the NREPA. Concentrations up to 200 ug/L may be acceptable, and still allow for drinking water use, as part of a site-specific cleanup under Section 20120a(2) and 20120b of the NREPA.

(W) Concentrations of trihalomethanes in groundwater shall be added together to determine compliance with the Michigan drinking water standard of 80 ug/L. Concentrations of trihalomethanes in soil shall be added together to determine compliance with the drinking water protection criterion of 1,600 ug/kg.

(X) The GSI criterion shown in the generic cleanup criteria tables is not protective for surface water that is used as a drinking water source. For a groundwater discharge to the Great Lakes and their connecting waters or discharge in close proximity to a water supply intake in inland surface waters, the generic GSI criterion shall be the surface water human drinking water value (HDV) listed in the [table in Footnote (X) in R 299.49], except for those HDV indicated with an asterisk. For HDV with an asterisk, the generic GSI criterion shall be the lowest of the HDV, the WV, and the calculated FCV. See formulas in [the table in Footnote (G) in R 299.49]. Soil protection criteria based on the HDV shall be as listed in the [table in Footnote (X) in R 299.49], except for those values with an asterisk. Soil GSI protection criteria based on the HDV shall be as listed in the [table in Footnote (X) in R 299.49], except for those values with an asterisk. Soil GSI protection criteria for compounds with an asterisk shall be the greater of 20 times the GSI criterion or the GSI soil-water partition values using the GSI criteria developed with the procedure described in this footnote.

(Y) Source size modifiers shown in the [See table in Footnote (Y) in R 299.49] shall be used to determine soil inhalation criteria for ambient air when the source size is not one-half acre. The modifier shall be multiplied by the generic soil inhalation criteria shown in the table of generic cleanup criteria to determine the applicable criterion. See Footnote (C) [in R 299.49].

(Z) Mercury is typically measured as total mercury. The generic cleanup criteria, however, are based on data for different species of mercury. Specifically, data for elemental mercury, chemical abstract service (CAS) number 7439976, serve as the basis for the soil volatilization to indoor air criteria, groundwater volatilization to indoor air, and soil inhalation criteria. Data for methyl mercury, CAS number 22967926, serve as the basis for the GSI criterion; and data for mercuric chloride, CAS number 7487947, serve as the basis for the drinking water, groundwater contact, soil direct contact, and the groundwater protection criteria. Comparison to criteria shall be based on species-specific analytical data only if sufficient facility characterization has been conducted to rule out the presence of other species of mercury.

(AA) Use 10,000 ug/L where groundwater enters a structure through the use of a water well, sump or other device. Use 28,000 ug/L for all other uses.

(BB) The state drinking water standard for asbestos (fibers greater than 10 micrometers in length) is in units of a million fibers per liter of water (MFL). Soil concentrations of asbestos are determined by polarized light microscopy.

(CC) Groundwater: The generic GSI criteria are based on the toxicity of unionized ammonia (NH_3); the criteria are 29 ug/L and 53 ug/L for cold water and warm water surface water, respectively. As a result, the GSI criterion shall be compared to the percent of the total ammonia concentration in the groundwater that will become NH_3 in the surface water. This percent NH_3 is a function of the pH and temperature of the receiving surface water and can be estimated using the [table in Footnote (CC) in R 299.49], taken from Emerson, et al., (Journal of the Fisheries Research Board of Canada, Volume 32(12):2382, 1975). The generic approach for estimating NH_3 assumes a default pH of 8 and default temperatures of 68 °F and 85 °F for cold water and warm water surface water, respectively. The resulting NH_3 is 3.8 percent and 7.2 percent for cold water and warm water, respectively. This default percentage shall be multiplied by the total ammonia-nitrogen (NH_3-N) concentration in the groundwater and the resulting NH_3 concentration compared to the applicable GSI criterion. As an alternative, the maximum pH and temperature data from the specific receiving surface water can be used to estimate, from the [table in Footnote (CC) in R 299.49], a lower percent unionized ammonia concentration for comparison to the generic GSI.
Soil: The generic soil GSI protection criteria for unionized ammonia are 580 ug/kg and 1,100 ug/kg for cold water and warm water surface water, respectively.

(DD) Hazardous substance causes developmental effects. Residential direct contact criteria are protective of both prenatal and postnatal exposure. Nonresidential direct contact criteria are protective for a pregnant adult receptor.

(EE) The [values listed in the table in Footnote (EE) in 299.49] are applicable generic GSI criteria as required by Section 20120e of the NREPA.

(FF) The chloride GSI criterion shall be 125 mg/L when the discharge is to surface waters of the state designated as public water supply sources or 50 mg/L when the discharge is to the Great Lakes or connecting waters. Chloride GSI criteria shall not apply for surface waters of the state that are not designated as a public water supply source, however, the total dissolved solids criterion is applicable.

(GG) Risk-based criteria are not available for methane due to insufficient toxicity data. An acceptable soil gas concentration (presented for both residential and nonresidential land uses) was derived utilizing 25 percent of the lower explosive level for methane. This equates to 1.25 percent or 8.4E+6 ug/m^3.

(HH) The residential criterion for sodium is 230,000 ug/L in accordance with the Sodium Advisory Council recommendation and revised Groundwater Discharge Standards.

(II) The residential drinking water criterion for 1,4-dioxane is not calculated using the equations of R 299.10 or the toxicological and chemical-physical data as shown in Table 4 of R 299.50. The drinking water criterion is calculated using the United States Environmental Protection Agency's (U.S. EPA) "Toxicological Review of 1,4-Dioxane" EPA/635/R-11/003F, September 2013, and the department's residential exposure algorithms to protect both children and adults from unsafe levels of the chemical.

ID Insufficient data to develop criterion.

NA A criterion or value is not available or, in the case of background and CAS numbers, not applicable.

NLL Hazardous substance is not likely to leach under most soil conditions.

NLV Hazardous substance is not likely to volatilize under most conditions.

ug/kg Micrograms per kilogram

ug/L Micrograms per liter

NS Not sampled

BDL Below Laboratory Method Detection Limits

BOLD Exceeds highlighted criteria.

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Laboratory Analytical Results

QUANTUM LABORATORIES, INC.
28221 Beck Road • Suite A-11
Wixom, Michigan 48393
248-348-TEST or 248-348-8378

ANALYTICAL REPORT

For: AKT Peerless
22725 Orchard Lake Rd
Farmington MI 48336

Report Number: 13434
Report Date: March 14, 2024
Project Name: Galloway Creek
Project Number: 13038f-s-20

Attn: Mr. Hunter Petz
Ms. Megan Napier

248-615-1333 Fax: 248-615-1334

Sample Description

Eight (8) samples reported to be Soil (4) and Water (4) and identified as “Galloway Creek”, Auburn Hills, MI, 3/7/24, Grab and:

1. Location D, 10:15 (Water)
2. Location D, 10:20 (Soil)
3. Location B, 10:50 (Water)
4. Location B, 10:55 (Soil)
5. Location C , 11:15 (Water)
6. Location C, 11:20 (Soil)
7. Location A, 12:05 (Water)
8. Location A, 12:10 (Soil)

Analysis Requested

Chemical Analysis per SW-846 (SW) for:

1. Volatile Organic Compounds (VOC), Methods 8260B and 5035 (Soil)
2. Semi-Volatile Organic Compounds (SVOC), Method 8270C
3. Polychlorinated Biphenyls (PCB), Method 8082A
4. Pesticides, Method 8081B
5. Herbicides, Method 8151A
6. 10 Michigan Metals
   a) Arsenic, Method 7010
   b) Barium, Method 7010
   c) Cadmium, Method 7010
   d) Chromium, Method 7010
   e) Copper, Method 7010
   f) Lead, Method 7010
   g) Mercury, Method 7470A (Water) or Method 7471B (Soil)
   h) Selenium, Method 7010
   i) Silver, Method 7010
   j) Zinc, Method 7010
7. Hexavalent Chromium, Methods 7196 and 3060 (Soil)

Analytical Results

Sample Description:	Location D, 10:15, 3/7/24					
Laboratory ID:	13434-1	Reporting Limit	Units of Measure	Date of Analysis	Analyst	Data Qualifiers
Volatile Organic Compounds						
Acetone	Not Detected	50	µg/L	03/07/24	BD	
Benzene	Not Detected	1	µg/L	03/07/24	BD	
Bromobenzene	Not Detected	1	µg/L	03/07/24	BD	
Bromochloromethane	Not Detected	1	µg/L	03/07/24	BD	
Bromodichloromethane	Not Detected	1	µg/L	03/07/24	BD	
Bromoform	Not Detected	1	µg/L	03/07/24	BD	
Bromomethane	Not Detected	5	µg/L	03/07/24	BD	
2-Butanone (MEK)	Not Detected	25	µg/L	03/07/24	BD	
n-Butylbenzene	Not Detected	1	µg/L	03/07/24	BD	
sec-Butylbenzene	Not Detected	1	µg/L	03/07/24	BD	
tert-Butylbenzene	Not Detected	1	µg/L	03/07/24	BD	
Carbon disulfide	Not Detected	5	µg/L	03/07/24	BD	
Carbon tetrachloride	Not Detected	1	µg/L	03/07/24	BD	
Chlorobenzene	Not Detected	1	µg/L	03/07/24	BD	
Chloroethane	Not Detected	5	µg/L	03/07/24	BD	
Chloroform	Not Detected	1	µg/L	03/07/24	BD	
Chloromethane	Not Detected	5	µg/L	03/07/24	BD	
2-Chlorotoluene	Not Detected	5	µg/L	03/07/24	BD	
4-Chlorotoluene	Not Detected	5	µg/L	03/07/24	BD	
Dibromochloromethane	Not Detected	5	µg/L	03/07/24	BD	
1,2-Dibromo-3-chloropropane	Not Detected	0.2	µg/L	03/07/24	BD	
Dibromomethane	Not Detected	5	µg/L	03/07/24	BD	
1,2-Dichlorobenzene	Not Detected	1	µg/L	03/07/24	BD	
1,3-Dichlorobenzene	Not Detected	1	µg/L	03/07/24	BD	
1,4-Dichlorobenzene	Not Detected	1	µg/L	03/07/24	BD	
Dichlorodifluoromethane	Not Detected	5	µg/L	03/07/24	BD	
1,1-Dichloroethane	Not Detected	1	µg/L	03/07/24	BD	
1,2-Dichloroethane	Not Detected	1	µg/L	03/07/24	BD	
1,1-Dichloroethylene	Not Detected	1	µg/L	03/07/24	BD	
cis-1,2-Dichloroethylene	Not Detected	1	µg/L	03/07/24	BD	
trans-1,2-Dichloroethylene	Not Detected	1	µg/L	03/07/24	BD	
1,2-Dichloropropane	Not Detected	1	µg/L	03/07/24	BD	
1,3-Dichloropropane	Not Detected	1	µg/L	03/07/24	BD	
2,2-Dichloropropane	Not Detected	1	µg/L	03/07/24	BD	
1,1-Dichloropropene	Not Detected	1	µg/L	03/07/24	BD	
1,3-Dichloropropene	Not Detected	1	µg/L	03/07/24	BD	

continued

Data Qualifiers:
I Internal Standard results outside of acceptance limits
S QC spike recovery outside of acceptance limits
R RPD outside of acceptance limits
E Reporting limit is elevated
D Result is from a dilution
J Result should be considered estimated
M Matrix interference observed
F Matrix Spike four times rule applied
C See Case Narrative

Sample Description:	Location D, 10:15, 3/7/24					
Laboratory ID:	13434-1	Reporting Limit	Units of Measure	Date of Analysis	Analyst	Data Qualifiers
VOC's, Cont'd						
Ethylbenzene	Not Detected	1	µg/L	03/07/24	BD	
Ethylene Dibromide (1,2-Dibromoethane)	Not Detected	0.2	µg/L	03/07/24	BD	
Hexachlorobutadiene	Not Detected	0.2	µg/L	03/07/24	BD	
2-Hexanone	Not Detected	50	µg/L	03/07/24	BD	
Isopropyl benzene	Not Detected	5	µg/L	03/07/24	BD	
4-Methyl-2-pentanone (MIBK)	Not Detected	50	µg/L	03/07/24	BD	
Methyl-t-butyl ether (MTBE)	Not Detected	5	µg/L	03/07/24	BD	
Methylene chloride	Not Detected	5	µg/L	03/07/24	BD	
2-Methylnapthalene	Not Detected	5	µg/L	03/07/24	BD	
Naphthalene	Not Detected	5	µg/L	03/07/24	BD	
n-Propyl benzene	Not Detected	1	µg/L	03/07/24	BD	
Styrene	Not Detected	1	µg/L	03/07/24	BD	
1,1,1,2-Tetrachloroethane	Not Detected	1	µg/L	03/07/24	BD	
1,1,2,2-Tetrachloroethane	Not Detected	1	µg/L	03/07/24	BD	
Tetrachloroethylene	Not Detected	1	µg/L	03/07/24	BD	
Tetrahydrofuran	Not Detected	90	µg/L	03/07/24	BD	
Toluene	Not Detected	1	µg/L	03/07/24	BD	
1,2,3-Trichlorobenzene	Not Detected	5	µg/L	03/07/24	BD	
1,2,4-Trichlorobenzene	Not Detected	5	µg/L	03/07/24	BD	
1,1,1-Trichloroethane	Not Detected	1	µg/L	03/07/24	BD	
1,1,2-Trichloroethane	Not Detected	1	µg/L	03/07/24	BD	
Trichloroethylene	Not Detected	1	µg/L	03/07/24	BD	
Trichlorofluoromethane	Not Detected	1	µg/L	03/07/24	BD	
1,2,3-Trichloropropane	Not Detected	1	µg/L	03/07/24	BD	
1,2,3-Trimethylbenzene	Not Detected	1	µg/L	03/07/24	BD	
1,2,4-Trimethylbenzene	Not Detected	1	µg/L	03/07/24	BD	
1,3,5-Trimethylbenzene	Not Detected	1	µg/L	03/07/24	BD	
Vinyl Acetate	Not Detected	100	µg/L	03/07/24	BD	
Vinyl chloride	Not Detected	1	µg/L	03/07/24	BD	
Xylene (Total)	Not Detected	3	µg/L	03/07/24	BD	
Surrogate Standards						
1,2-Dichloroethane-d4	112%	-	% Recovery	03/07/24	BD	
Toluene-d8	101%	-	% Recovery	03/07/24	BD	
4-Bromofluorobenzene	110%	-	% Recovery	03/07/24	BD	

continued

Sample Description:	Location D, 10:15, 3/7/24					
Laboratory ID:	13434-1	Reporting Limit	Units of Measure	Date of Analysis	Analyst	Data Qualifiers
Semi-Volatile Organic Cmpds			□			
Acenaphthene	Not Detected	5	µg/L	03/07/24	BD	
Acenaphthylene	Not Detected	5	µg/L	03/07/24	BD	
Aniline	Not Detected	4	µg/L	03/07/24	BD	
Anthracene	Not Detected	5	µg/L	03/07/24	BD	
Azobenzene	Not Detected	2	µg/L	03/07/24	BD	
Benzidine	Not Detected	2	µg/L	03/07/24	BD	
Benzo(a)anthracene	Not Detected	1	µg/L	03/07/24	BD	
Benzo(b)fluoranthene	Not Detected	1	µg/L	03/07/24	BD	
Benzo(k)fluoranthene	Not Detected	1	µg/L	03/07/24	BD	
Benzo(g,h,i)perylene	Not Detected	1	µg/L	03/07/24	BD	
Benzo(a)pyrene	Not Detected	1	µg/L	03/07/24	BD	
Benzyl alcohol	Not Detected	50	µg/L	03/07/24	BD	
Bis(2-chloroethyl)ether	Not Detected	1	µg/L	03/07/24	BD	
Bis(2-chloroisopropyl)ether	Not Detected	5	µg/L	03/07/24	BD	
Bis(2-chloroethoxy)methane	Not Detected	5	µg/L	03/07/24	BD	
Bis(2-ethylhexyl)phthalate	Not Detected	5	µg/L	03/07/24	BD	
4-Bromophenyl phenyl ether	Not Detected	5	µg/L	03/07/24	BD	
Butyl benzyl phthalate	Not Detected	5	µg/L	03/07/24	BD	
Carbazole	Not Detected	10	µg/L	03/07/24	BD	
4-Chloroaniline	Not Detected	10	µg/L	03/07/24	BD	
4-Chloro-3-methylphenol	Not Detected	5	µg/L	03/07/24	BD	
2-Chloronaphthalene (beta)	Not Detected	5	µg/L	03/07/24	BD	
2-Chlorophenol	Not Detected	10	µg/L	03/07/24	BD	
4-Chlorophenyl phenyl ether	Not Detected	5	µg/L	03/07/24	BD	
Chrysene	Not Detected	1	µg/L	03/07/24	BD	
Di-n-butylphthalate	Not Detected	5	µg/L	03/07/24	BD	
Di-n-octyl phthalate	Not Detected	5	µg/L	03/07/24	BD	
Dibenzo(a,h)anthracene	Not Detected	2	µg/L	03/07/24	BD	
Dibenzofuran	Not Detected	4	µg/L	03/07/24	BD	
3,3'-Dichlorobenzidine	Not Detected	2	µg/L	03/07/24	BD	
2,4-Dichlorophenol	Not Detected	10	µg/L	03/07/24	BD	
Diethylphthalate	Not Detected	5	µg/L	03/07/24	BD	
Dimethyl phthalate	Not Detected	5	µg/L	03/07/24	BD	
2,4-Dimethylphenol	Not Detected	5	µg/L	03/07/24	BD	
2,4-Dinitrophenol	Not Detected	25	µg/L	03/07/24	BD	
2,4-Dinitrotoluene	Not Detected	5	µg/L	03/07/24	BD	
2,6-Dinitrotoluene	Not Detected	5	µg/L	03/07/24	BD	

continued

Sample Description:	Location D, 10:15, 3/7/24					
Laboratory ID:	13434-1	Reporting Limit	Units of Measure	Date of Analysis	Analyst	Data Qualifiers
SVOC's, Cont'd			□			
Fluoranthene	Not Detected	1	µg/L	03/07/24	BD	
Fluorene	Not Detected	5	µg/L	03/07/24	BD	
Hexachlorobenzene	Not Detected	1	µg/L	03/07/24	BD	
Hexachlorocyclopentadiene	Not Detected	5	µg/L	03/07/24	BD	
Hexachloroethane	Not Detected	5	µg/L	03/07/24	BD	
Indeno(1,2,3-cd)pyrene	Not Detected	2	µg/L	03/07/24	BD	
Isophorone	Not Detected	5	µg/L	03/07/24	BD	
2-Methyl-4,6-Dinitrophenol	Not Detected	20	µg/L	03/07/24	BD	
2-Methylnaphthalene	Not Detected	5	µg/L	03/07/24	BD	
2-Methylphenol	Not Detected	10	µg/L	03/07/24	BD	
4-Methylphenol	Not Detected	10	µg/L	03/07/24	BD	
Methylphenols (total)	Not Detected	30	µg/L	03/07/24	BD	
Naphthalene	Not Detected	5	µg/L	03/07/24	BD	
2-Nitroaniline	Not Detected	25	µg/L	03/07/24	BD	
3-Nitroaniline	Not Detected	25	µg/L	03/07/24	BD	
4-Nitroaniline	Not Detected	25	µg/L	03/07/24	BD	
Nitrobenzene	Not Detected	3	µg/L	03/07/24	BD	
2-Nitrophenol	Not Detected	5	µg/L	03/07/24	BD	
4-Nitrophenol	Not Detected	25	µg/L	03/07/24	BD	
N-Nitrosodi-n-propylamine	Not Detected	5	µg/L	03/07/24	BD	
N-Nitrosodiphenylamine	Not Detected	5	µg/L	03/07/24	BD	
Pentachlorophenol	Not Detected	1	µg/L	03/07/24	BD	
Phenanthrene	Not Detected	2	µg/L	03/07/24	BD	
Phenol	Not Detected	5	µg/L	03/07/24	BD	
Pyrene	Not Detected	5	µg/L	03/07/24	BD	
Pyridine	Not Detected	20	µg/L	03/07/24	BD	
2,4,5-Trichlorophenol	Not Detected	5	µg/L	03/07/24	BD	
2,4,6-Trichlorophenol	Not Detected	4	µg/L	03/07/24	BD	
Surrogate Standards						
2-Fluorophenol	62.1%	-	% Recovery	03/07/24	BD	
Phenol-d5	51.5%	-	% Recovery	03/07/24	BD	
Nitrobenzene-d5	71.1%	-	% Recovery	03/07/24	BD	
2-Fluorobiphenyl	66.4%	-	% Recovery	03/07/24	BD	
2,4,6-Tribromophenol	81.4%	-	% Recovery	03/07/24	BD	
Terphenyl-d14	86.6%	-	% Recovery	03/07/24	BD	

continued

Sample Description:	Location D, 10:15, 3/7/24					
Laboratory ID:	13434-1	Reporting Limit	Units of Measure	Date of Analysis	Analyst	Data Qualifiers
PCBs						
Aroclor 1016	Not Detected	0.2	µg/L	03/13/24	DS	
Aroclor 1221	Not Detected	0.2	µg/L	03/13/24	DS	
Aroclor 1232	Not Detected	0.2	µg/L	03/13/24	DS	
Aroclor 1242	Not Detected	0.2	µg/L	03/13/24	DS	
Aroclor 1248	Not Detected	0.2	µg/L	03/13/24	DS	
Aroclor 1254	Not Detected	0.2	µg/L	03/13/24	DS	
Aroclor 1260	Not Detected	0.2	µg/L	03/13/24	DS	
Polychlorinated biphenyls (Total)	Not Detected	2	µg/L	03/13/24	DS	
Surrogate Standards						
Tetrachloro-m-xylene	128%	-	% Recovery	03/13/24	DS	
Decachlorobiphenyl	116%	-	% Recovery	03/13/24	DS	
Herbicides						
2,4-D	Not Detected	10	µg/L	03/08/24	DS	
2,4-DB	Not Detected	10	µg/L	03/08/24	DS	
2,4,5-TP (Silvex)	Not Detected	30	µg/L	03/08/24	DS	
2,4,5-T	Not Detected	10	µg/L	03/08/24	DS	
Dalapon	Not Detected	10	µg/L	03/08/24	DS	
Dicamba	Not Detected	1	µg/L	03/08/24	DS	
Dichloroprop	Not Detected	10	µg/L	03/08/24	DS	
Dinoseb	Not Detected	1	µg/L	03/08/24	DS	
MCPA	Not Detected	100	µg/L	03/08/24	DS	
MCPP	Not Detected	100	µg/L	03/08/24	DS	
Surrogate Standards						
DCPAA	74.9%	-	% Recovery	03/08/24	DS	

continued

Data Qualifiers:
I Internal Standard results outside of acceptance limits
S QC spike recovery outside of acceptance limits
R RPD outside of acceptance limits
E Reporting limit is elevated
D Result is from a dilution
J Result should be considered estimated
M Matrix interference observed
F Matrix Spike four times rule applied
C See Case Narrative

Sample Description:	Location D, 10:15, 3/7/24					
Laboratory ID:	13434-1	Reporting Limit	Units of Measure	Date of Analysis	Analyst	Data Qualifiers
Pesticides						
Aldrin	Not Detected	0.01	µg/L	03/11/24	DS	
Chlordane	Not Detected	0.05	µg/L	03/11/24	DS	
4,4'-DDD	Not Detected	0.1	µg/L	03/11/24	DS	
4,4'-DDE	Not Detected	0.1	µg/L	03/11/24	DS	
4,4'-DDT	Not Detected	0.02	µg/L	03/11/24	DS	
Dieldrin	Not Detected	0.02	µg/L	03/11/24	DS	
Endosulfan-alpha	Not Detected	0.015	µg/L	03/11/24	DS	
Endosulfan-beta	Not Detected	0.015	µg/L	03/11/24	DS	
Endosulfan (Total)	Not Detected	0.03	µg/L	03/11/24	DS	
Endosulfan sulfate	Not Detected	0.05	µg/L	03/11/24	DS	
Endrin	Not Detected	0.02	µg/L	03/11/24	DS	
Endrin aldehyde	Not Detected	0.02	µg/L	03/11/24	DS	
Heptachlor	Not Detected	0.01	µg/L	03/11/24	DS	
Heptachlor Epoxide	Not Detected	0.01	µg/L	03/11/24	DS	
alpha-Hexachlorocyclohexane	Not Detected	0.05	µg/L	03/11/24	DS	
beta-Hexachlorocyclohexane	Not Detected	0.02	µg/L	03/11/24	DS	
delta-Hexachlorocyclohexane	Not Detected	0.01	µg/L	03/11/24	DS	
Lindane	Not Detected	0.03	µg/L	03/11/24	DS	
Methoxychlor	Not Detected	0.5	µg/L	03/11/24	DS	
Toxaphene	Not Detected	1	µg/L	03/11/24	DS	
Surrogate Standards						
Tetrachloro-m-xylene	136%	-	% Recovery	03/11/24	DS	
Decachlorobiphenyl	106%	-	% Recovery	03/11/24	DS	
Metals						
Arsenic	Not Detected	5	µg/L	03/08/24	DS	
Barium	564	100	µg/L	03/09/24	DS	
Cadmium	Not Detected	1	µg/L	03/08/24	DS	
Chromium	Not Detected	5	µg/L	03/08/24	DS	
Hexavalent Chromium	Not Detected	10	µg/L	03/06/24	LB	
Copper	7	4	µg/L	03/08/24	DS	
Lead	Not Detected	3	µg/L	03/08/24	DS	
Mercury	Not Detected	0.2	µg/L	03/13/24	DS	
Selenium	Not Detected	5	µg/L	03/08/24	DS	
Silver	Not Detected	0.2	µg/L	03/08/24	DS	
Zinc	Not Detected	50	µg/L	03/08/24	DS	

continued

Data Qualifiers:
I Internal Standard results outside of acceptance limits
S QC spike recovery outside of acceptance limits
R RPD outside of acceptance limits
E Reporting limit is elevated
D Result is from a dilution
J Result should be considered estimated
M Matrix interference observed
F Matrix Spike four times rule applied
C See Case Narrative

Sample Description:	Location D, 10:15, 3/7/24					
Laboratory ID:	13434-1	Reporting Limit	Units of Measure	Date of Analysis	Analyst	Data Qualifiers
Analysis Information						
SVOC Extraction	Completed	-	-	03/07/24	LB/BD	
PCB Extraction	Completed	-	-	03/07/24	LB	
Pesticide Extraction	Completed	-	-	03/07/24	LB	
Herbicide Extraction	Completed	-	-	03/07/24	LB/DS	
Mercury Digestion	Completed	-	-	03/12/24	LB	
Metals Digestion	Completed	-	-	03/07/24	LB	

Sample Description:	Location D, 10:20, 3/7/24					
Laboratory ID:	13434-2	Reporting Limit	Units of Measure	Date of Analysis	Analyst	Data Qualifiers
Volatile Organic Compounds						
Acetone	Not Detected	1,000	µg/Kg, dry wt.	03/08/24	BD	
Benzene	Not Detected	50	µg/Kg, dry wt.	03/08/24	BD	
Bromobenzene	Not Detected	100	µg/Kg, dry wt.	03/08/24	BD	
Bromochloromethane	Not Detected	100	µg/Kg, dry wt.	03/08/24	BD	
Bromodichloromethane	Not Detected	100	µg/Kg, dry wt.	03/08/24	BD	
Bromoform	Not Detected	100	µg/Kg, dry wt.	03/08/24	BD	
Bromomethane	Not Detected	200	µg/Kg, dry wt.	03/08/24	BD	
2-Butanone (MEK)	Not Detected	750	µg/Kg, dry wt.	03/08/24	BD	
n-Butylbenzene	Not Detected	50	µg/Kg, dry wt.	03/08/24	BD	
sec-Butylbenzene	Not Detected	50	µg/Kg, dry wt.	03/08/24	BD	
tert-Butylbenzene	Not Detected	50	µg/Kg, dry wt.	03/08/24	BD	
Carbon disulfide	Not Detected	250	µg/Kg, dry wt.	03/08/24	BD	
Carbon tetrachloride	Not Detected	50	µg/Kg, dry wt.	03/08/24	BD	
Chlorobenzene	Not Detected	50	µg/Kg, dry wt.	03/08/24	BD	
Chloroethane	Not Detected	250	µg/Kg, dry wt.	03/08/24	BD	
Chloroform	Not Detected	50	µg/Kg, dry wt.	03/08/24	BD	
Chloromethane	Not Detected	250	µg/Kg, dry wt.	03/08/24	BD	
2-Chlorotoluene	Not Detected	50	µg/Kg, dry wt.	03/08/24	BD	
4-Chlorotoluene	Not Detected	50	µg/Kg, dry wt.	03/08/24	BD	
Dibromochloromethane	Not Detected	100	µg/Kg, dry wt.	03/08/24	BD	
1,2-Dibromo-3-chloropropane	Not Detected	10	µg/Kg, dry wt.	03/08/24	BD	
Dibromomethane	Not Detected	250	µg/Kg, dry wt.	03/08/24	BD	
1,2-Dichlorobenzene	Not Detected	100	µg/Kg, dry wt.	03/08/24	BD	
1,3-Dichlorobenzene	Not Detected	100	µg/Kg, dry wt.	03/08/24	BD	
1,4-Dichlorobenzene	Not Detected	100	µg/Kg, dry wt.	03/08/24	BD	
Dichlorodifluoromethane	Not Detected	250	µg/Kg, dry wt.	03/08/24	BD	
1,1-Dichloroethane	Not Detected	50	µg/Kg, dry wt.	03/08/24	BD	
1,2-Dichloroethane	Not Detected	50	µg/Kg, dry wt.	03/08/24	BD	
1,1-Dichloroethylene	Not Detected	50	µg/Kg, dry wt.	03/08/24	BD	
cis-1,2-Dichloroethylene	Not Detected	50	µg/Kg, dry wt.	03/08/24	BD	
trans-1,2-Dichloroethylene	Not Detected	50	µg/Kg, dry wt.	03/08/24	BD	
1,2-Dichloropropane	Not Detected	50	µg/Kg, dry wt.	03/08/24	BD	
1,3-Dichloropropane	Not Detected	50	µg/Kg, dry wt.	03/08/24	BD	
2,2-Dichloropropane	Not Detected	50	µg/Kg, dry wt.	03/08/24	BD	
1,1-Dichloropropene	Not Detected	50	µg/Kg, dry wt.	03/08/24	BD	
1,3-Dichloropropene	Not Detected	50	µg/Kg, dry wt.	03/08/24	BD	

continued

Sample Description:	Location D, 10:20, 3/7/24					
Laboratory ID:	13434-2	Reporting Limit	Units of Measure	Date of Analysis	Analyst	Data Qualifiers
VOC's, Cont'd						
Ethylbenzene	Not Detected	50	µg/Kg, dry wt.	03/08/24	BD	
Ethylene Dibromide (1,2-Dibromoethane)	Not Detected	20	µg/Kg, dry wt.	03/08/24	BD	
Hexachlorobutadiene	Not Detected	50	µg/Kg, dry wt.	03/08/24	BD	
2-Hexanone	Not Detected	2,500	µg/Kg, dry wt.	03/08/24	BD	
Isopropyl benzene	Not Detected	250	µg/Kg, dry wt.	03/08/24	BD	
4-Methyl-2-pentanone (MIBK)	Not Detected	2,500	µg/Kg, dry wt.	03/08/24	BD	
Methyl-t-butyl ether (MTBE)	Not Detected	250	µg/Kg, dry wt.	03/08/24	BD	
Methylene chloride	Not Detected	250	µg/Kg, dry wt.	03/08/24	BD	
2-Methylnapthalene	Not Detected	250	µg/Kg, dry wt.	03/08/24	BD	
Naphthalene	Not Detected	250	µg/Kg, dry wt.	03/08/24	BD	
n-Propylbenzene	Not Detected	100	µg/Kg, dry wt.	03/08/24	BD	
Styrene	Not Detected	50	µg/Kg, dry wt.	03/08/24	BD	
1,1,1,2-Tetrachloroethane	Not Detected	100	µg/Kg, dry wt.	03/08/24	BD	
1,1,2,2-Tetrachloroethane	Not Detected	50	µg/Kg, dry wt.	03/08/24	BD	
Tetrachloroethylene	Not Detected	50	µg/Kg, dry wt.	03/08/24	BD	
Tetrahydrofuran	Not Detected	1,000	µg/Kg, dry wt.	03/08/24	BD	
Toluene	Not Detected	100	µg/Kg, dry wt.	03/08/24	BD	
1,2,3-Trichlorobenzene	Not Detected	250	µg/Kg, dry wt.	03/08/24	BD	
1,2,4-Trichlorobenzene	Not Detected	250	µg/Kg, dry wt.	03/08/24	BD	
1,1,1-Trichloroethane	Not Detected	50	µg/Kg, dry wt.	03/08/24	BD	
1,1,2-Trichloroethane	Not Detected	50	µg/Kg, dry wt.	03/08/24	BD	
Trichloroethylene	Not Detected	50	µg/Kg, dry wt.	03/08/24	BD	
Trichlorofluoromethane	Not Detected	100	µg/Kg, dry wt.	03/08/24	BD	
1,2,3-Trichloropropane	Not Detected	100	µg/Kg, dry wt.	03/08/24	BD	
1,2,3-Trimethylbenzene	Not Detected	100	µg/Kg, dry wt.	03/08/24	BD	
1,2,4-Trimethylbenzene	Not Detected	100	µg/Kg, dry wt.	03/08/24	BD	
1,3,5-Trimethylbenzene	Not Detected	100	µg/Kg, dry wt.	03/08/24	BD	
Vinyl Acetate	Not Detected	5,000	µg/Kg, dry wt.	03/08/24	BD	
Vinyl Chloride	Not Detected	40	µg/Kg, dry wt.	03/08/24	BD	
Xylene (Total)	Not Detected	150	µg/Kg, dry wt.	03/08/24	BD	
Surrogate Standards						
1,2-Dichloroethane-d4	115%	-	% Recovery	03/08/24	BD	
Toluene-d8	102%	-	% Recovery	03/08/24	BD	
4-Bromofluorobenzene	111%	-	% Recovery	03/08/24	BD	

continued

Sample Description:	Location D, 10:20, 3/7/24					
Laboratory ID:	13434-2	Reporting Limit	Units of Measure	Date of Analysis	Analyst	Data Qualifiers
Semi-Volatile Organic Cmpds						
Acenaphthene	Not Detected	330	µg/Kg, dry wt.	03/11/24	BD	
Acenaphthylene	Not Detected	330	µg/Kg, dry wt.	03/11/24	BD	
Aniline	Not Detected	330	µg/Kg, dry wt.	03/11/24	BD	
Anthracene	Not Detected	330	µg/Kg, dry wt.	03/11/24	BD	
Azobenzene	Not Detected	200	µg/Kg, dry wt.	03/11/24	BD	
Benzidine	Not Detected	1,000	µg/Kg, dry wt.	03/11/24	BD	
Benzo(a)anthracene	Not Detected	330	µg/Kg, dry wt.	03/11/24	BD	
Benzo(b)fluoranthene	Not Detected	330	µg/Kg, dry wt.	03/11/24	BD	
Benzo(k)fluoranthene	Not Detected	330	µg/Kg, dry wt.	03/11/24	BD	
Benzo(g,h,i)perylene	Not Detected	330	µg/Kg, dry wt.	03/11/24	BD	
Benzo(a)pyrene	Not Detected	330	µg/Kg, dry wt.	03/11/24	BD	
Benzyl alcohol	Not Detected	3,300	µg/Kg, dry wt.	03/11/24	BD	
Bis(2-chloroethyl)ether	Not Detected	100	µg/Kg, dry wt.	03/11/24	BD	
Bis(2-chloroisopropyl)ether	Not Detected	330	µg/Kg, dry wt.	03/11/24	BD	
Bis(2-chloroethoxy)methane	Not Detected	330	µg/Kg, dry wt.	03/11/24	BD	
Bis(2-ethylhexyl)phthalate	Not Detected	330	µg/Kg, dry wt.	03/11/24	BD	
4-Bromophenyl phenyl ether	Not Detected	330	µg/Kg, dry wt.	03/11/24	BD	
Butyl benzyl phthalate	Not Detected	330	µg/Kg, dry wt.	03/11/24	BD	
Carbazole	Not Detected	330	µg/Kg, dry wt.	03/11/24	BD	
4-Chloroaniline	Not Detected	330	µg/Kg, dry wt.	03/11/24	BD	
4-Chloro-3-methylphenol	Not Detected	280	µg/Kg, dry wt.	03/11/24	BD	
2-Chloronaphthalene (beta)	Not Detected	330	µg/Kg, dry wt.	03/11/24	BD	
2-Chlorophenol	Not Detected	330	µg/Kg, dry wt.	03/11/24	BD	
4-Chlorophenyl phenyl ether	Not Detected	330	µg/Kg, dry wt.	03/11/24	BD	
Chrysene	Not Detected	330	µg/Kg, dry wt.	03/11/24	BD	
Di-n-butylphthalate	Not Detected	330	µg/Kg, dry wt.	03/11/24	BD	
Di-n-octyl phthalate	Not Detected	330	µg/Kg, dry wt.	03/11/24	BD	
Dibenzo(a,h)anthracene	Not Detected	330	µg/Kg, dry wt.	03/11/24	BD	
Dibenzofuran	Not Detected	330	µg/Kg, dry wt.	03/11/24	BD	
3,3'-Dichlorobenzidine	Not Detected	2,000	µg/Kg, dry wt.	03/11/24	BD	
2,4-Dichlorophenol	Not Detected	330	µg/Kg, dry wt.	03/11/24	BD	
Diethylphthalate	Not Detected	330	µg/Kg, dry wt.	03/11/24	BD	
Dimethyl phthalate	Not Detected	330	µg/Kg, dry wt.	03/11/24	BD	
2,4-Dimethylphenol	Not Detected	330	µg/Kg, dry wt.	03/11/24	BD	
2,4-Dinitrophenol	Not Detected	830	µg/Kg, dry wt.	03/11/24	BD	
2,4-Dinitrotoluene	Not Detected	330	µg/Kg, dry wt.	03/11/24	BD	
2,6-Dinitrotoluene	Not Detected	330	µg/Kg, dry wt.	03/11/24	BD	

continued

Sample Description:	Location D, 10:20, 3/7/24					
Laboratory ID:	13434-2	Reporting Limit	Units of Measure	Date of Analysis	Analyst	Data Qualifiers
SVOC's, Cont'd						
Fluoranthene	Not Detected	330	µg/Kg, dry wt.	03/11/24	BD	
Fluorene	Not Detected	330	µg/Kg, dry wt.	03/11/24	BD	
Hexachlorobenzene	Not Detected	330	µg/Kg, dry wt.	03/11/24	BD	
Hexachlorocyclopentadiene	Not Detected	330	µg/Kg, dry wt.	03/11/24	BD	
Hexachloroethane	Not Detected	300	µg/Kg, dry wt.	03/11/24	BD	
Indeno(1,2,3-cd)pyrene	Not Detected	330	µg/Kg, dry wt.	03/11/24	BD	
Isophorone	Not Detected	330	µg/Kg, dry wt.	03/11/24	BD	
2-Methyl-4,6-Dinitrophenol	Not Detected	830	µg/Kg, dry wt.	03/11/24	BD	
2-Methylnaphthalene	Not Detected	330	µg/Kg, dry wt.	03/11/24	BD	
2-Methylphenol	Not Detected	330	µg/Kg, dry wt.	03/11/24	BD	
4-Methylphenol	Not Detected	330	µg/Kg, dry wt.	03/11/24	BD	
Methylphenols (total)	Not Detected	1,000	µg/Kg, dry wt.	03/11/24	BD	
Naphthalene	Not Detected	330	µg/Kg, dry wt.	03/11/24	BD	
2-Nitroaniline	Not Detected	830	µg/Kg, dry wt.	03/11/24	BD	
3-Nitroaniline	Not Detected	830	µg/Kg, dry wt.	03/11/24	BD	
4-Nitroaniline	Not Detected	830	µg/Kg, dry wt.	03/11/24	BD	
Nitrobenzene	Not Detected	330	µg/Kg, dry wt.	03/11/24	BD	
2-Nitrophenol	Not Detected	330	µg/Kg, dry wt.	03/11/24	BD	
4-Nitrophenol	Not Detected	830	µg/Kg, dry wt.	03/11/24	BD	
N-Nitrosodi-n-propylamine	Not Detected	330	µg/Kg, dry wt.	03/11/24	BD	
N-Nitrosodiphenylamine	Not Detected	330	µg/Kg, dry wt.	03/11/24	BD	
Pentachlorophenol	Not Detected	20	µg/Kg, dry wt.	03/11/24	BD	
Phenanthrene	Not Detected	330	µg/Kg, dry wt.	03/11/24	BD	
Phenol	Not Detected	330	µg/Kg, dry wt.	03/11/24	BD	
Pyrene	Not Detected	330	µg/Kg, dry wt.	03/11/24	BD	
Pyridine	Not Detected	330	µg/Kg, dry wt.	03/11/24	BD	
2,4,5-Trichlorophenol	Not Detected	330	µg/Kg, dry wt.	03/11/24	BD	
2,4,6-Trichlorophenol	Not Detected	330	µg/Kg, dry wt.	03/11/24	BD	
Surrogate Standards						
2-Fluorophenol	84.7%	-	% Recovery	03/11/24	BD	
Phenol-d5	87.3%	-	% Recovery	03/11/24	BD	
Nitrobenzene-d5	64.9%	-	% Recovery	03/11/24	BD	
2-Fluorobiphenyl	63.9%	-	% Recovery	03/11/24	BD	
2,4,6-Tribromophenol	99.6%	-	% Recovery	03/11/24	BD	
Terphenyl-d14	76.4%	-	% Recovery	03/11/24	BD	

continued

Sample Description:	Location D, 10:20, 3/7/24					
Laboratory ID:	13434-2	Reporting Limit	Units of Measure	Date of Analysis	Analyst	Data Qualifiers
PCBs						
Aroclor 1016	Not Detected	100	µg/Kg, dry wt.	03/14/24	DS	
Aroclor 1221	Not Detected	100	µg/Kg, dry wt.	03/14/24	DS	
Aroclor 1232	Not Detected	100	µg/Kg, dry wt.	03/14/24	DS	
Aroclor 1242	Not Detected	100	µg/Kg, dry wt.	03/14/24	DS	
Aroclor 1248	Not Detected	100	µg/Kg, dry wt.	03/14/24	DS	
Aroclor 1254	Not Detected	100	µg/Kg, dry wt.	03/14/24	DS	
Aroclor 1260	Not Detected	100	µg/Kg, dry wt.	03/14/24	DS	
Polychlorinated biphenyls (Total)	Not Detected	700	µg/Kg, dry wt.	03/14/24	DS	
Surrogate Standards						
Tetrachloro-m-xylene	114%	-	% Recovery	03/14/24	DS	
Decachlorobiphenyl	137%	-	% Recovery	03/14/24	DS	
Herbicides						
2,4-D	Not Detected	200	µg/Kg, dry wt.	03/08/24	DS	
2,4-DB	Not Detected	200	µg/Kg, dry wt.	03/08/24	DS	
2,4,5-TP (Silvex)	Not Detected	300	µg/Kg, dry wt.	03/08/24	DS	
2,4,5-T	Not Detected	500	µg/Kg, dry wt.	03/08/24	DS	
Dalapon	Not Detected	500	µg/Kg, dry wt.	03/08/24	DS	
Dicamba	Not Detected	50	µg/Kg, dry wt.	03/08/24	DS	
Dichloroprop	Not Detected	50	µg/Kg, dry wt.	03/08/24	DS	
Dinoseb	Not Detected	200	µg/Kg, dry wt.	03/08/24	DS	
MCPA	Not Detected	5,000	µg/Kg, dry wt.	03/08/24	DS	
MCPP	Not Detected	5,000	µg/Kg, dry wt.	03/08/24	DS	
Surrogate Standards						
DCPAA	101%	-	% Recovery	03/08/24	DS	

continued

Data Qualifiers:
I Internal Standard results outside of acceptance limits
S QC spike recovery outside of acceptance limits
R RPD outside of acceptance limits
E Reporting limit is elevated
D Result is from a dilution
J Result should be considered estimated
M Matrix interference observed
F Matrix Spike four times rule applied
C See Case Narrative

Sample Description:	Location D, 10:20, 3/7/24					
Laboratory ID:	13434-2	Reporting Limit	Units of Measure	Date of Analysis	Analyst	Data Qualifiers
Pesticides						
Aldrin	Not Detected	20	µg/Kg, dry wt.	03/07/24	DS	
Chlordane	Not Detected	30	µg/Kg, dry wt.	03/07/24	DS	
4,4'-DDD	Not Detected	20	µg/Kg, dry wt.	03/07/24	DS	
4,4'-DDE	Not Detected	20	µg/Kg, dry wt.	03/07/24	DS	
4,4'-DDT	Not Detected	20	µg/Kg, dry wt.	03/07/24	DS	
Dieldrin	Not Detected	20	µg/Kg, dry wt.	03/07/24	DS	
Endosulfan-alpha	Not Detected	20	µg/Kg, dry wt.	03/07/24	DS	
Endosulfan-beta	Not Detected	20	µg/Kg, dry wt.	03/07/24	DS	
Endosulfan (Total)	Not Detected	40	µg/Kg, dry wt.	03/07/24	DS	
Endosulfan sulfate	Not Detected	20	µg/Kg, dry wt.	03/07/24	DS	
Endrin	Not Detected	20	µg/Kg, dry wt.	03/07/24	DS	
Endrin aldehyde	Not Detected	20	µg/Kg, dry wt.	03/07/24	DS	
Heptachlor	Not Detected	20	µg/Kg, dry wt.	03/07/24	DS	
Heptachlor Epoxide	Not Detected	20	µg/Kg, dry wt.	03/07/24	DS	
alpha-Hexachlorocyclohexane	Not Detected	10	µg/Kg, dry wt.	03/07/24	DS	
beta-Hexachlorocyclohexane	Not Detected	20	µg/Kg, dry wt.	03/07/24	DS	
delta-Hexachlorocyclohexane	Not Detected	20	µg/Kg, dry wt.	03/07/24	DS	
Lindane	Not Detected	20	µg/Kg, dry wt.	03/07/24	DS	
Methoxychlor	Not Detected	50	µg/Kg, dry wt.	03/07/24	DS	
Toxaphene	Not Detected	170	µg/Kg, dry wt.	03/07/24	DS	
Surrogate Standards						
Tetrachloro-m-xylene	98.3%	-	% Recovery	03/07/24	DS	
Decachlorobiphenyl	101%	-	% Recovery	03/07/24	DS	
Metals						
Arsenic	2,370	100	µg/Kg, dry wt.	03/12/24	DS	
Barium	67,400	1,000	µg/Kg, dry wt.	03/13/24	DS	
Cadmium	Not Detected	200	µg/Kg, dry wt.	03/12/24	DS	
Chromium	Not Detected	2,000	µg/Kg, dry wt.	03/12/24	DS	
Hexavalent Chromium	Not Detected	2,000	µg/Kg, dry wt.	03/12/24	LB	
Copper	2,860	1,000	µg/Kg, dry wt.	03/12/24	DS	
Lead	2,050	1,000	µg/Kg, dry wt.	03/12/24	DS	
Mercury	Not Detected	50	µg/Kg, dry wt.	03/13/24	DS	
Selenium	Not Detected	200	µg/Kg, dry wt.	03/12/24	DS	
Silver	Not Detected	100	µg/Kg, dry wt.	03/12/24	DS	
Zinc	11,200	1,000	µg/Kg, dry wt.	03/12/24	DS	

continued

Sample Description:	Location D, 10:20, 3/7/24					
Laboratory ID:	13434-2	Reporting Limit	Units of Measure	Date of Analysis	Analyst	Data Qualifiers
Analysis Information						
Dry Weight Solids	77.2%	-	% by weight	03/07/24	LB	
SVOC Extraction	Completed	-	-	03/11/24	LB	
PCB Extraction	Completed	-	-	03/07/24	LB	
Pesticide Extraction	Completed	-	-	03/07/24	LB	
Herbicide Extraction	Completed	-	-	03/08/24	LB	
Mercury Digestion	Completed	-	-	03/12/24	LB	
Metals Digestion	Completed	-	-	03/12/24	LB	

Sample Description:	Location B, 10:50, 3/7/24					
Laboratory ID:	13434-3	Reporting Limit	Units of Measure	Date of Analysis	Analyst	Data Qualifiers
Volatile Organic Compounds						
Acetone	Not Detected	50	µg/L	03/07/24	BD	
Benzene	Not Detected	1	µg/L	03/07/24	BD	
Bromobenzene	Not Detected	1	µg/L	03/07/24	BD	
Bromochloromethane	Not Detected	1	µg/L	03/07/24	BD	
Bromodichloromethane	Not Detected	1	µg/L	03/07/24	BD	
Bromoform	Not Detected	1	µg/L	03/07/24	BD	
Bromomethane	Not Detected	5	µg/L	03/07/24	BD	
2-Butanone (MEK)	Not Detected	25	µg/L	03/07/24	BD	
n-Butylbenzene	Not Detected	1	µg/L	03/07/24	BD	
sec-Butylbenzene	Not Detected	1	µg/L	03/07/24	BD	
tert-Butylbenzene	Not Detected	1	µg/L	03/07/24	BD	
Carbon disulfide	Not Detected	5	µg/L	03/07/24	BD	
Carbon tetrachloride	Not Detected	1	µg/L	03/07/24	BD	
Chlorobenzene	Not Detected	1	µg/L	03/07/24	BD	
Chloroethane	Not Detected	5	µg/L	03/07/24	BD	
Chloroform	Not Detected	1	µg/L	03/07/24	BD	
Chloromethane	Not Detected	5	µg/L	03/07/24	BD	
2-Chlorotoluene	Not Detected	5	µg/L	03/07/24	BD	
4-Chlorotoluene	Not Detected	5	µg/L	03/07/24	BD	
Dibromochloromethane	Not Detected	5	µg/L	03/07/24	BD	
1,2-Dibromo-3-chloropropane	Not Detected	0.2	µg/L	03/07/24	BD	
Dibromomethane	Not Detected	5	µg/L	03/07/24	BD	
1,2-Dichlorobenzene	Not Detected	1	µg/L	03/07/24	BD	
1,3-Dichlorobenzene	Not Detected	1	µg/L	03/07/24	BD	
1,4-Dichlorobenzene	Not Detected	1	µg/L	03/07/24	BD	
Dichlorodifluoromethane	Not Detected	5	µg/L	03/07/24	BD	
1,1-Dichloroethane	Not Detected	1	µg/L	03/07/24	BD	
1,2-Dichloroethane	Not Detected	1	µg/L	03/07/24	BD	
1,1-Dichloroethylene	Not Detected	1	µg/L	03/07/24	BD	
cis-1,2-Dichloroethylene	Not Detected	1	µg/L	03/07/24	BD	
trans-1,2-Dichloroethylene	Not Detected	1	µg/L	03/07/24	BD	
1,2-Dichloropropane	Not Detected	1	µg/L	03/07/24	BD	
1,3-Dichloropropane	Not Detected	1	µg/L	03/07/24	BD	
2,2-Dichloropropane	Not Detected	1	µg/L	03/07/24	BD	
1,1-Dichloropropene	Not Detected	1	µg/L	03/07/24	BD	
1,3-Dichloropropene	Not Detected	1	µg/L	03/07/24	BD	

continued

Sample Description:	Location B, 10:50, 3/7/24					
Laboratory ID:	13434-3	Reporting Limit	Units of Measure	Date of Analysis	Analyst	Data Qualifiers
VOC's, Cont'd						
Ethylbenzene	Not Detected	1	µg/L	03/07/24	BD	
Ethylene Dibromide (1,2-Dibromoethane)	Not Detected	0.2	µg/L	03/07/24	BD	
Hexachlorobutadiene	Not Detected	0.2	µg/L	03/07/24	BD	
2-Hexanone	Not Detected	50	µg/L	03/07/24	BD	
Isopropyl benzene	Not Detected	5	µg/L	03/07/24	BD	
4-Methyl-2-pentanone (MIBK)	Not Detected	50	µg/L	03/07/24	BD	
Methyl-t-butyl ether (MTBE)	Not Detected	5	µg/L	03/07/24	BD	
Methylene chloride	Not Detected	5	µg/L	03/07/24	BD	
2-Methylnapthalene	Not Detected	5	µg/L	03/07/24	BD	
Naphthalene	Not Detected	5	µg/L	03/07/24	BD	
n-Propyl benzene	Not Detected	1	µg/L	03/07/24	BD	
Styrene	Not Detected	1	µg/L	03/07/24	BD	
1,1,1,2-Tetrachloroethane	Not Detected	1	µg/L	03/07/24	BD	
1,1,2,2-Tetrachloroethane	Not Detected	1	µg/L	03/07/24	BD	
Tetrachloroethylene	Not Detected	1	µg/L	03/07/24	BD	
Tetrahydrofuran	Not Detected	90	µg/L	03/07/24	BD	
Toluene	Not Detected	1	µg/L	03/07/24	BD	
1,2,3-Trichlorobenzene	Not Detected	5	µg/L	03/07/24	BD	
1,2,4-Trichlorobenzene	Not Detected	5	µg/L	03/07/24	BD	
1,1,1-Trichloroethane	Not Detected	1	µg/L	03/07/24	BD	
1,1,2-Trichloroethane	Not Detected	1	µg/L	03/07/24	BD	
Trichloroethylene	Not Detected	1	µg/L	03/07/24	BD	
Trichlorofluoromethane	Not Detected	1	µg/L	03/07/24	BD	
1,2,3-Trichloropropane	Not Detected	1	µg/L	03/07/24	BD	
1,2,3-Trimethylbenzene	Not Detected	1	µg/L	03/07/24	BD	
1,2,4-Trimethylbenzene	Not Detected	1	µg/L	03/07/24	BD	
1,3,5-Trimethylbenzene	Not Detected	1	µg/L	03/07/24	BD	
Vinyl Acetate	Not Detected	100	µg/L	03/07/24	BD	
Vinyl chloride	Not Detected	1	µg/L	03/07/24	BD	
Xylene (Total)	Not Detected	3	µg/L	03/07/24	BD	
Surrogate Standards						
1,2-Dichloroethane-d4	114%	-	% Recovery	03/07/24	BD	
Toluene-d8	103%	-	% Recovery	03/07/24	BD	
4-Bromofluorobenzene	107%	-	% Recovery	03/07/24	BD	

continued

Sample Description:	Location B, 10:50, 3/7/24					
Laboratory ID:	13434-3	Reporting Limit	Units of Measure	Date of Analysis	Analyst	Data Qualifiers
Semi-Volatile Organic Cmpds			□			
Acenaphthene	Not Detected	5	µg/L	03/07/24	BD	
Acenaphthylene	Not Detected	5	µg/L	03/07/24	BD	
Aniline	Not Detected	4	µg/L	03/07/24	BD	
Anthracene	Not Detected	5	µg/L	03/07/24	BD	
Azobenzene	Not Detected	2	µg/L	03/07/24	BD	
Benzidine	Not Detected	2	µg/L	03/07/24	BD	
Benzo(a)anthracene	Not Detected	1	µg/L	03/07/24	BD	
Benzo(b)fluoranthene	Not Detected	1	µg/L	03/07/24	BD	
Benzo(k)fluoranthene	Not Detected	1	µg/L	03/07/24	BD	
Benzo(g,h,i)perylene	Not Detected	1	µg/L	03/07/24	BD	
Benzo(a)pyrene	Not Detected	1	µg/L	03/07/24	BD	
Benzyl alcohol	Not Detected	50	µg/L	03/07/24	BD	
Bis(2-chloroethyl)ether	Not Detected	1	µg/L	03/07/24	BD	
Bis(2-chloroisopropyl)ether	Not Detected	5	µg/L	03/07/24	BD	
Bis(2-chloroethoxy)methane	Not Detected	5	µg/L	03/07/24	BD	
Bis(2-ethylhexyl)phthalate	Not Detected	5	µg/L	03/07/24	BD	
4-Bromophenyl phenyl ether	Not Detected	5	µg/L	03/07/24	BD	
Butyl benzyl phthalate	Not Detected	5	µg/L	03/07/24	BD	
Carbazole	Not Detected	10	µg/L	03/07/24	BD	
4-Chloroaniline	Not Detected	10	µg/L	03/07/24	BD	
4-Chloro-3-methylphenol	Not Detected	5	µg/L	03/07/24	BD	
2-Chloronaphthalene (beta)	Not Detected	5	µg/L	03/07/24	BD	
2-Chlorophenol	Not Detected	10	µg/L	03/07/24	BD	
4-Chlorophenyl phenyl ether	Not Detected	5	µg/L	03/07/24	BD	
Chrysene	Not Detected	1	µg/L	03/07/24	BD	
Di-n-butylphthalate	Not Detected	5	µg/L	03/07/24	BD	
Di-n-octyl phthalate	Not Detected	5	µg/L	03/07/24	BD	
Dibenzo(a,h)anthracene	Not Detected	2	µg/L	03/07/24	BD	
Dibenzofuran	Not Detected	4	µg/L	03/07/24	BD	
3,3'-Dichlorobenzidine	Not Detected	2	µg/L	03/07/24	BD	
2,4-Dichlorophenol	Not Detected	10	µg/L	03/07/24	BD	
Diethylphthalate	Not Detected	5	µg/L	03/07/24	BD	
Dimethyl phthalate	Not Detected	5	µg/L	03/07/24	BD	
2,4-Dimethylphenol	Not Detected	5	µg/L	03/07/24	BD	
2,4-Dinitrophenol	Not Detected	25	µg/L	03/07/24	BD	
2,4-Dinitrotoluene	Not Detected	5	µg/L	03/07/24	BD	
2,6-Dinitrotoluene	Not Detected	5	µg/L	03/07/24	BD	

continued

Data Qualifiers:
I Internal Standard results outside of acceptance limits
S QC spike recovery outside of acceptance limits
R RPD outside of acceptance limits
E Reporting limit is elevated
D Result is from a dilution
J Result should be considered estimated
M Matrix interference observed
F Matrix Spike four times rule applied
C See Case Narrative

Sample Description:	Location B, 10:50, 3/7/24					
Laboratory ID:	13434-3	Reporting Limit	Units of Measure	Date of Analysis	Analyst	Data Qualifiers
SVOC's, Cont'd			□			
Fluoranthene	Not Detected	1	µg/L	03/07/24	BD	
Fluorene	Not Detected	5	µg/L	03/07/24	BD	
Hexachlorobenzene	Not Detected	1	µg/L	03/07/24	BD	
Hexachlorocyclopentadiene	Not Detected	5	µg/L	03/07/24	BD	
Hexachloroethane	Not Detected	5	µg/L	03/07/24	BD	
Indeno(1,2,3-cd)pyrene	Not Detected	2	µg/L	03/07/24	BD	
Isophorone	Not Detected	5	µg/L	03/07/24	BD	
2-Methyl-4,6-Dinitrophenol	Not Detected	20	µg/L	03/07/24	BD	
2-Methylnaphthalene	Not Detected	5	µg/L	03/07/24	BD	
2-Methylphenol	Not Detected	10	µg/L	03/07/24	BD	
4-Methylphenol	Not Detected	10	µg/L	03/07/24	BD	
Methylphenols (total)	Not Detected	30	µg/L	03/07/24	BD	
Naphthalene	Not Detected	5	µg/L	03/07/24	BD	
2-Nitroaniline	Not Detected	25	µg/L	03/07/24	BD	
3-Nitroaniline	Not Detected	25	µg/L	03/07/24	BD	
4-Nitroaniline	Not Detected	25	µg/L	03/07/24	BD	
Nitrobenzene	Not Detected	3	µg/L	03/07/24	BD	
2-Nitrophenol	Not Detected	5	µg/L	03/07/24	BD	
4-Nitrophenol	Not Detected	25	µg/L	03/07/24	BD	
N-Nitrosodi-n-propylamine	Not Detected	5	µg/L	03/07/24	BD	
N-Nitrosodiphenylamine	Not Detected	5	µg/L	03/07/24	BD	
Pentachlorophenol	Not Detected	1	µg/L	03/07/24	BD	
Phenanthrene	Not Detected	2	µg/L	03/07/24	BD	
Phenol	Not Detected	5	µg/L	03/07/24	BD	
Pyrene	Not Detected	5	µg/L	03/07/24	BD	
Pyridine	Not Detected	20	µg/L	03/07/24	BD	
2,4,5-Trichlorophenol	Not Detected	5	µg/L	03/07/24	BD	
2,4,6-Trichlorophenol	Not Detected	4	µg/L	03/07/24	BD	
Surrogate Standards						
2-Fluorophenol	61.7%	-	% Recovery	03/07/24	BD	
Phenol-d5	50.8%	-	% Recovery	03/07/24	BD	
Nitrobenzene-d5	68.9%	-	% Recovery	03/07/24	BD	
2-Fluorobiphenyl	65.1%	-	% Recovery	03/07/24	BD	
2,4,6-Tribromophenol	80.4%	-	% Recovery	03/07/24	BD	
Terphenyl-d14	84.4%	-	% Recovery	03/07/24	BD	

continued

Sample Description:	Location B, 10:50, 3/7/24					
Laboratory ID:	13434-3	Reporting Limit	Units of Measure	Date of Analysis	Analyst	Data Qualifiers
PCBs						
Aroclor 1016	Not Detected	0.2	µg/L	03/13/24	DS	
Aroclor 1221	Not Detected	0.2	µg/L	03/13/24	DS	
Aroclor 1232	Not Detected	0.2	µg/L	03/13/24	DS	
Aroclor 1242	Not Detected	0.2	µg/L	03/13/24	DS	
Aroclor 1248	Not Detected	0.2	µg/L	03/13/24	DS	
Aroclor 1254	Not Detected	0.2	µg/L	03/13/24	DS	
Aroclor 1260	Not Detected	0.2	µg/L	03/13/24	DS	
Polychlorinated biphenyls (Total)	Not Detected	2	µg/L	03/13/24	DS	
Surrogate Standards						
Tetrachloro-m-xylene	114%	-	% Recovery	03/13/24	DS	
Decachlorobiphenyl	115%	-	% Recovery	03/13/24	DS	
Herbicides						
2,4-D	Not Detected	10	µg/L	03/08/24	DS	
2,4-DB	Not Detected	10	µg/L	03/08/24	DS	
2,4,5-TP (Silvex)	Not Detected	30	µg/L	03/08/24	DS	
2,4,5-T	Not Detected	10	µg/L	03/08/24	DS	
Dalapon	Not Detected	10	µg/L	03/08/24	DS	
Dicamba	Not Detected	1	µg/L	03/08/24	DS	
Dichloroprop	Not Detected	10	µg/L	03/08/24	DS	
Dinoseb	Not Detected	1	µg/L	03/08/24	DS	
MCPA	Not Detected	100	µg/L	03/08/24	DS	
MCPP	Not Detected	100	µg/L	03/08/24	DS	
Surrogate Standards						
DCPAA	83.7%	-	% Recovery	03/08/24	DS	

continued

Data Qualifiers:
I Internal Standard results outside of acceptance limits
S QC spike recovery outside of acceptance limits
R RPD outside of acceptance limits
E Reporting limit is elevated
D Result is from a dilution
J Result should be considered estimated
M Matrix interference observed
F Matrix Spike four times rule applied
C See Case Narrative

Sample Description:	Location B, 10:50, 3/7/24					
Laboratory ID:	13434-3	Reporting Limit	Units of Measure	Date of Analysis	Analyst	Data Qualifiers
Pesticides						
Aldrin	Not Detected	0.01	µg/L	03/11/24	DS	
Chlordane	Not Detected	0.05	µg/L	03/11/24	DS	
4,4'-DDD	Not Detected	0.1	µg/L	03/11/24	DS	
4,4'-DDE	Not Detected	0.1	µg/L	03/11/24	DS	
4,4'-DDT	Not Detected	0.02	µg/L	03/11/24	DS	
Dieldrin	Not Detected	0.02	µg/L	03/11/24	DS	
Endosulfan-alpha	Not Detected	0.015	µg/L	03/11/24	DS	
Endosulfan-beta	Not Detected	0.015	µg/L	03/11/24	DS	
Endosulfan (Total)	Not Detected	0.03	µg/L	03/11/24	DS	
Endosulfan sulfate	Not Detected	0.05	µg/L	03/11/24	DS	
Endrin	Not Detected	0.02	µg/L	03/11/24	DS	
Endrin aldehyde	Not Detected	0.02	µg/L	03/11/24	DS	
Heptachlor	Not Detected	0.01	µg/L	03/11/24	DS	
Heptachlor Epoxide	Not Detected	0.01	µg/L	03/11/24	DS	
alpha-Hexachlorocyclohexane	Not Detected	0.05	µg/L	03/11/24	DS	
beta-Hexachlorocyclohexane	Not Detected	0.02	µg/L	03/11/24	DS	
delta-Hexachlorocyclohexane	Not Detected	0.01	µg/L	03/11/24	DS	
Lindane	Not Detected	0.03	µg/L	03/11/24	DS	
Methoxychlor	Not Detected	0.5	µg/L	03/11/24	DS	
Toxaphene	Not Detected	1	µg/L	03/11/24	DS	
Surrogate Standards						
Tetrachloro-m-xylene	120%	-	% Recovery	03/11/24	DS	
Decachlorobiphenyl	95.2%	-	% Recovery	03/11/24	DS	
Metals						
Arsenic	Not Detected	5	µg/L	03/08/24	DS	
Barium	447	100	µg/L	03/09/24	DS	
Cadmium	Not Detected	1	µg/L	03/08/24	DS	
Chromium	Not Detected	5	µg/L	03/08/24	DS	
Hexavalent Chromium	Not Detected	10	µg/L	03/06/24	LB	
Copper	Not Detected	4	µg/L	03/08/24	DS	
Lead	Not Detected	3	µg/L	03/08/24	DS	
Mercury	Not Detected	0.2	µg/L	03/13/24	DS	
Selenium	Not Detected	5	µg/L	03/08/24	DS	
Silver	Not Detected	0.2	µg/L	03/08/24	DS	
Zinc	Not Detected	50	µg/L	03/08/24	DS	

continued

Sample Description:	Location B, 10:50, 3/7/24					
Laboratory ID:	13434-3	Reporting Limit	Units of Measure	Date of Analysis	Analyst	Data Qualifiers
Analysis Information						
SVOC Extraction	Completed	-	-	03/07/24	LB/BD	
PCB Extraction	Completed	-	-	03/07/24	LB	
Pesticide Extraction	Completed	-	-	03/07/24	LB	
Herbicide Extraction	Completed	-	-	03/07/24	LB/DS	
Mercury Digestion	Completed	-	-	03/12/24	LB	
Metals Digestion	Completed	-	-	03/07/24	LB	

Sample Description:	Location B, 10:55, 3/7/24					
Laboratory ID:	13434-4	Reporting Limit	Units of Measure	Date of Analysis	Analyst	Data Qualifiers
Volatile Organic Compounds						
Acetone	Not Detected	1,000	µg/Kg, dry wt.	03/08/24	BD	
Benzene	Not Detected	50	µg/Kg, dry wt.	03/08/24	BD	
Bromobenzene	Not Detected	100	µg/Kg, dry wt.	03/08/24	BD	
Bromochloromethane	Not Detected	100	µg/Kg, dry wt.	03/08/24	BD	
Bromodichloromethane	Not Detected	100	µg/Kg, dry wt.	03/08/24	BD	
Bromoform	Not Detected	100	µg/Kg, dry wt.	03/08/24	BD	
Bromomethane	Not Detected	200	µg/Kg, dry wt.	03/08/24	BD	
2-Butanone (MEK)	Not Detected	750	µg/Kg, dry wt.	03/08/24	BD	
n-Butylbenzene	Not Detected	50	µg/Kg, dry wt.	03/08/24	BD	
sec-Butylbenzene	Not Detected	50	µg/Kg, dry wt.	03/08/24	BD	
tert-Butylbenzene	Not Detected	50	µg/Kg, dry wt.	03/08/24	BD	
Carbon disulfide	Not Detected	250	µg/Kg, dry wt.	03/08/24	BD	
Carbon tetrachloride	Not Detected	50	µg/Kg, dry wt.	03/08/24	BD	
Chlorobenzene	Not Detected	50	µg/Kg, dry wt.	03/08/24	BD	
Chloroethane	Not Detected	250	µg/Kg, dry wt.	03/08/24	BD	
Chloroform	Not Detected	50	µg/Kg, dry wt.	03/08/24	BD	
Chloromethane	Not Detected	250	µg/Kg, dry wt.	03/08/24	BD	
2-Chlorotoluene	Not Detected	50	µg/Kg, dry wt.	03/08/24	BD	
4-Chlorotoluene	Not Detected	50	µg/Kg, dry wt.	03/08/24	BD	
Dibromochloromethane	Not Detected	100	µg/Kg, dry wt.	03/08/24	BD	
1,2-Dibromo-3-chloropropane	Not Detected	10	µg/Kg, dry wt.	03/08/24	BD	
Dibromomethane	Not Detected	250	µg/Kg, dry wt.	03/08/24	BD	
1,2-Dichlorobenzene	Not Detected	100	µg/Kg, dry wt.	03/08/24	BD	
1,3-Dichlorobenzene	Not Detected	100	µg/Kg, dry wt.	03/08/24	BD	
1,4-Dichlorobenzene	Not Detected	100	µg/Kg, dry wt.	03/08/24	BD	
Dichlorodifluoromethane	Not Detected	250	µg/Kg, dry wt.	03/08/24	BD	
1,1-Dichloroethane	Not Detected	50	µg/Kg, dry wt.	03/08/24	BD	
1,2-Dichloroethane	Not Detected	50	µg/Kg, dry wt.	03/08/24	BD	
1,1-Dichloroethylene	Not Detected	50	µg/Kg, dry wt.	03/08/24	BD	
cis-1,2-Dichloroethylene	Not Detected	50	µg/Kg, dry wt.	03/08/24	BD	
trans-1,2-Dichloroethylene	Not Detected	50	µg/Kg, dry wt.	03/08/24	BD	
1,2-Dichloropropane	Not Detected	50	µg/Kg, dry wt.	03/08/24	BD	
1,3-Dichloropropane	Not Detected	50	µg/Kg, dry wt.	03/08/24	BD	
2,2-Dichloropropane	Not Detected	50	µg/Kg, dry wt.	03/08/24	BD	
1,1-Dichloropropene	Not Detected	50	µg/Kg, dry wt.	03/08/24	BD	
1,3-Dichloropropene	Not Detected	50	µg/Kg, dry wt.	03/08/24	BD	

continued

Sample Description:	Location B, 10:55, 3/7/24					
Laboratory ID:	13434-4	Reporting Limit	Units of Measure	Date of Analysis	Analyst	Data Qualifiers
VOC's, Cont'd						
Ethylbenzene	Not Detected	50	µg/Kg, dry wt.	03/08/24	BD	
Ethylene Dibromide (1,2-Dibromoethane)	Not Detected	20	µg/Kg, dry wt.	03/08/24	BD	
Hexachlorobutadiene	Not Detected	50	µg/Kg, dry wt.	03/08/24	BD	
2-Hexanone	Not Detected	2,500	µg/Kg, dry wt.	03/08/24	BD	
Isopropyl benzene	Not Detected	250	µg/Kg, dry wt.	03/08/24	BD	
4-Methyl-2-pentanone (MIBK)	Not Detected	2,500	µg/Kg, dry wt.	03/08/24	BD	
Methyl-t-butyl ether (MTBE)	Not Detected	250	µg/Kg, dry wt.	03/08/24	BD	
Methylene chloride	Not Detected	250	µg/Kg, dry wt.	03/08/24	BD	
2-Methylnapthalene	Not Detected	250	µg/Kg, dry wt.	03/08/24	BD	
Naphthalene	Not Detected	250	µg/Kg, dry wt.	03/08/24	BD	
n-Propylbenzene	Not Detected	100	µg/Kg, dry wt.	03/08/24	BD	
Styrene	Not Detected	50	µg/Kg, dry wt.	03/08/24	BD	
1,1,1,2-Tetrachloroethane	Not Detected	100	µg/Kg, dry wt.	03/08/24	BD	
1,1,2,2-Tetrachloroethane	Not Detected	50	µg/Kg, dry wt.	03/08/24	BD	
Tetrachloroethylene	Not Detected	50	µg/Kg, dry wt.	03/08/24	BD	
Tetrahydrofuran	Not Detected	1,000	µg/Kg, dry wt.	03/08/24	BD	
Toluene	Not Detected	100	µg/Kg, dry wt.	03/08/24	BD	
1,2,3-Trichlorobenzene	Not Detected	250	µg/Kg, dry wt.	03/08/24	BD	
1,2,4-Trichlorobenzene	Not Detected	250	µg/Kg, dry wt.	03/08/24	BD	
1,1,1-Trichloroethane	Not Detected	50	µg/Kg, dry wt.	03/08/24	BD	
1,1,2-Trichloroethane	Not Detected	50	µg/Kg, dry wt.	03/08/24	BD	
Trichloroethylene	Not Detected	50	µg/Kg, dry wt.	03/08/24	BD	
Trichlorofluoromethane	Not Detected	100	µg/Kg, dry wt.	03/08/24	BD	
1,2,3-Trichloropropane	Not Detected	100	µg/Kg, dry wt.	03/08/24	BD	
1,2,3-Trimethylbenzene	Not Detected	100	µg/Kg, dry wt.	03/08/24	BD	
1,2,4-Trimethylbenzene	Not Detected	100	µg/Kg, dry wt.	03/08/24	BD	
1,3,5-Trimethylbenzene	Not Detected	100	µg/Kg, dry wt.	03/08/24	BD	
Vinyl Acetate	Not Detected	5,000	µg/Kg, dry wt.	03/08/24	BD	
Vinyl Chloride	Not Detected	40	µg/Kg, dry wt.	03/08/24	BD	
Xylene (Total)	Not Detected	150	µg/Kg, dry wt.	03/08/24	BD	
Surrogate Standards						
1,2-Dichloroethane-d4	117%	-	% Recovery	03/08/24	BD	
Toluene-d8	102%	-	% Recovery	03/08/24	BD	
4-Bromofluorobenzene	110%	-	% Recovery	03/08/24	BD	

continued

Sample Description:	Location B, 10:55, 3/7/24					
Laboratory ID:	13434-4	Reporting Limit	Units of Measure	Date of Analysis	Analyst	Data Qualifiers
Semi-Volatile Organic Cmpds						
Acenaphthene	Not Detected	330	µg/Kg, dry wt.	03/11/24	BD	
Acenaphthylene	Not Detected	330	µg/Kg, dry wt.	03/11/24	BD	
Aniline	Not Detected	330	µg/Kg, dry wt.	03/11/24	BD	
Anthracene	Not Detected	330	µg/Kg, dry wt.	03/11/24	BD	
Azobenzene	Not Detected	200	µg/Kg, dry wt.	03/11/24	BD	
Benzidine	Not Detected	1,000	µg/Kg, dry wt.	03/11/24	BD	
Benzo(a)anthracene	Not Detected	330	µg/Kg, dry wt.	03/11/24	BD	
Benzo(b)fluoranthene	Not Detected	330	µg/Kg, dry wt.	03/11/24	BD	
Benzo(k)fluoranthene	Not Detected	330	µg/Kg, dry wt.	03/11/24	BD	
Benzo(g,h,i)perylene	Not Detected	330	µg/Kg, dry wt.	03/11/24	BD	
Benzo(a)pyrene	Not Detected	330	µg/Kg, dry wt.	03/11/24	BD	
Benzyl alcohol	Not Detected	3,300	µg/Kg, dry wt.	03/11/24	BD	
Bis(2-chloroethyl)ether	Not Detected	100	µg/Kg, dry wt.	03/11/24	BD	
Bis(2-chloroisopropyl)ether	Not Detected	330	µg/Kg, dry wt.	03/11/24	BD	
Bis(2-chloroethoxy)methane	Not Detected	330	µg/Kg, dry wt.	03/11/24	BD	
Bis(2-ethylhexyl)phthalate	Not Detected	330	µg/Kg, dry wt.	03/11/24	BD	
4-Bromophenyl phenyl ether	Not Detected	330	µg/Kg, dry wt.	03/11/24	BD	
Butyl benzyl phthalate	Not Detected	330	µg/Kg, dry wt.	03/11/24	BD	
Carbazole	Not Detected	330	µg/Kg, dry wt.	03/11/24	BD	
4-Chloroaniline	Not Detected	330	µg/Kg, dry wt.	03/11/24	BD	
4-Chloro-3-methylphenol	Not Detected	280	µg/Kg, dry wt.	03/11/24	BD	
2-Chloronaphthalene (beta)	Not Detected	330	µg/Kg, dry wt.	03/11/24	BD	
2-Chlorophenol	Not Detected	330	µg/Kg, dry wt.	03/11/24	BD	
4-Chlorophenyl phenyl ether	Not Detected	330	µg/Kg, dry wt.	03/11/24	BD	
Chrysene	Not Detected	330	µg/Kg, dry wt.	03/11/24	BD	
Di-n-butylphthalate	Not Detected	330	µg/Kg, dry wt.	03/11/24	BD	
Di-n-octyl phthalate	Not Detected	330	µg/Kg, dry wt.	03/11/24	BD	
Dibenzo(a,h)anthracene	Not Detected	330	µg/Kg, dry wt.	03/11/24	BD	
Dibenzofuran	Not Detected	330	µg/Kg, dry wt.	03/11/24	BD	
3,3'-Dichlorobenzidine	Not Detected	2,000	µg/Kg, dry wt.	03/11/24	BD	
2,4-Dichlorophenol	Not Detected	330	µg/Kg, dry wt.	03/11/24	BD	
Diethylphthalate	Not Detected	330	µg/Kg, dry wt.	03/11/24	BD	
Dimethyl phthalate	Not Detected	330	µg/Kg, dry wt.	03/11/24	BD	
2,4-Dimethylphenol	Not Detected	330	µg/Kg, dry wt.	03/11/24	BD	
2,4-Dinitrophenol	Not Detected	830	µg/Kg, dry wt.	03/11/24	BD	
2,4-Dinitrotoluene	Not Detected	330	µg/Kg, dry wt.	03/11/24	BD	
2,6-Dinitrotoluene	Not Detected	330	µg/Kg, dry wt.	03/11/24	BD	

continued

Sample Description:	Location B, 10:55, 3/7/24					
Laboratory ID:	13434-4	Reporting Limit	Units of Measure	Date of Analysis	Analyst	Data Qualifiers
SVOC's, Cont'd						
Fluoranthene	Not Detected	330	µg/Kg, dry wt.	03/11/24	BD	
Fluorene	Not Detected	330	µg/Kg, dry wt.	03/11/24	BD	
Hexachlorobenzene	Not Detected	330	µg/Kg, dry wt.	03/11/24	BD	
Hexachlorocyclopentadiene	Not Detected	330	µg/Kg, dry wt.	03/11/24	BD	
Hexachloroethane	Not Detected	300	µg/Kg, dry wt.	03/11/24	BD	
Indeno(1,2,3-cd)pyrene	Not Detected	330	µg/Kg, dry wt.	03/11/24	BD	
Isophorone	Not Detected	330	µg/Kg, dry wt.	03/11/24	BD	
2-Methyl-4,6-Dinitrophenol	Not Detected	830	µg/Kg, dry wt.	03/11/24	BD	
2-Methylnaphthalene	Not Detected	330	µg/Kg, dry wt.	03/11/24	BD	
2-Methylphenol	Not Detected	330	µg/Kg, dry wt.	03/11/24	BD	
4-Methylphenol	Not Detected	330	µg/Kg, dry wt.	03/11/24	BD	
Methylphenols (total)	Not Detected	1,000	µg/Kg, dry wt.	03/11/24	BD	
Naphthalene	Not Detected	330	µg/Kg, dry wt.	03/11/24	BD	
2-Nitroaniline	Not Detected	830	µg/Kg, dry wt.	03/11/24	BD	
3-Nitroaniline	Not Detected	830	µg/Kg, dry wt.	03/11/24	BD	
4-Nitroaniline	Not Detected	830	µg/Kg, dry wt.	03/11/24	BD	
Nitrobenzene	Not Detected	330	µg/Kg, dry wt.	03/11/24	BD	
2-Nitrophenol	Not Detected	330	µg/Kg, dry wt.	03/11/24	BD	
4-Nitrophenol	Not Detected	830	µg/Kg, dry wt.	03/11/24	BD	
N-Nitrosodi-n-propylamine	Not Detected	330	µg/Kg, dry wt.	03/11/24	BD	
N-Nitrosodiphenylamine	Not Detected	330	µg/Kg, dry wt.	03/11/24	BD	
Pentachlorophenol	Not Detected	20	µg/Kg, dry wt.	03/11/24	BD	
Phenanthrene	Not Detected	330	µg/Kg, dry wt.	03/11/24	BD	
Phenol	Not Detected	330	µg/Kg, dry wt.	03/11/24	BD	
Pyrene	Not Detected	330	µg/Kg, dry wt.	03/11/24	BD	
Pyridine	Not Detected	330	µg/Kg, dry wt.	03/11/24	BD	
2,4,5-Trichlorophenol	Not Detected	330	µg/Kg, dry wt.	03/11/24	BD	
2,4,6-Trichlorophenol	Not Detected	330	µg/Kg, dry wt.	03/11/24	BD	
Surrogate Standards						
2-Fluorophenol	83.5%	-	% Recovery	03/11/24	BD	
Phenol-d5	85.7%	-	% Recovery	03/11/24	BD	
Nitrobenzene-d5	64.9%	-	% Recovery	03/11/24	BD	
2-Fluorobiphenyl	64.4%	-	% Recovery	03/11/24	BD	
2,4,6-Tribromophenol	105%	-	% Recovery	03/11/24	BD	
Terphenyl-d14	81.3%	-	% Recovery	03/11/24	BD	

continued

Data Qualifiers:
I Internal Standard results outside of acceptance limits
S QC spike recovery outside of acceptance limits
R RPD outside of acceptance limits
E Reporting limit is elevated
D Result is from a dilution
J Result should be considered estimated
M Matrix interference observed
F Matrix Spike four times rule applied
C See Case Narrative

Sample Description:	Location B, 10:55, 3/7/24					
Laboratory ID:	13434-4	Reporting Limit	Units of Measure	Date of Analysis	Analyst	Data Qualifiers
PCBs						
Aroclor 1016	Not Detected	100	µg/Kg, dry wt.	03/14/24	DS	
Aroclor 1221	Not Detected	100	µg/Kg, dry wt.	03/14/24	DS	
Aroclor 1232	Not Detected	100	µg/Kg, dry wt.	03/14/24	DS	
Aroclor 1242	Not Detected	100	µg/Kg, dry wt.	03/14/24	DS	
Aroclor 1248	Not Detected	100	µg/Kg, dry wt.	03/14/24	DS	
Aroclor 1254	Not Detected	100	µg/Kg, dry wt.	03/14/24	DS	
Aroclor 1260	Not Detected	100	µg/Kg, dry wt.	03/14/24	DS	
Polychlorinated biphenyls (Total)	Not Detected	700	µg/Kg, dry wt.	03/14/24	DS	
Surrogate Standards						
Tetrachloro-m-xylene	123%	-	% Recovery	03/14/24	DS	
Decachlorobiphenyl	133%	-	% Recovery	03/14/24	DS	
Herbicides						
2,4-D	Not Detected	200	µg/Kg, dry wt.	03/08/24	DS	
2,4-DB	Not Detected	200	µg/Kg, dry wt.	03/08/24	DS	
2,4,5-TP (Silvex)	Not Detected	300	µg/Kg, dry wt.	03/08/24	DS	
2,4,5-T	Not Detected	500	µg/Kg, dry wt.	03/08/24	DS	
Dalapon	Not Detected	500	µg/Kg, dry wt.	03/08/24	DS	
Dicamba	Not Detected	50	µg/Kg, dry wt.	03/08/24	DS	
Dichloroprop	Not Detected	50	µg/Kg, dry wt.	03/08/24	DS	
Dinoseb	Not Detected	200	µg/Kg, dry wt.	03/08/24	DS	
MCPA	Not Detected	5,000	µg/Kg, dry wt.	03/08/24	DS	
MCPP	Not Detected	5,000	µg/Kg, dry wt.	03/08/24	DS	
Surrogate Standards						
DCPAA	109%	-	% Recovery	03/08/24	DS	

continued

Data Qualifiers:
I Internal Standard results outside of acceptance limits
S QC spike recovery outside of acceptance limits
R RPD outside of acceptance limits
E Reporting limit is elevated
D Result is from a dilution
J Result should be considered estimated
M Matrix interference observed
F Matrix Spike four times rule applied
C See Case Narrative

Sample Description:	Location B, 10:55, 3/7/24					
Laboratory ID:	13434-4	Reporting Limit	Units of Measure	Date of Analysis	Analyst	Data Qualifiers
Pesticides						
Aldrin	Not Detected	20	µg/Kg, dry wt.	03/07/24	DS	
Chlordane	Not Detected	30	µg/Kg, dry wt.	03/07/24	DS	
4,4'-DDD	Not Detected	20	µg/Kg, dry wt.	03/07/24	DS	
4,4'-DDE	Not Detected	20	µg/Kg, dry wt.	03/07/24	DS	
4,4'-DDT	Not Detected	20	µg/Kg, dry wt.	03/07/24	DS	
Dieldrin	Not Detected	20	µg/Kg, dry wt.	03/07/24	DS	
Endosulfan-alpha	Not Detected	20	µg/Kg, dry wt.	03/07/24	DS	
Endosulfan-beta	Not Detected	20	µg/Kg, dry wt.	03/07/24	DS	
Endosulfan (Total)	Not Detected	40	µg/Kg, dry wt.	03/07/24	DS	
Endosulfan sulfate	Not Detected	20	µg/Kg, dry wt.	03/07/24	DS	
Endrin	Not Detected	20	µg/Kg, dry wt.	03/07/24	DS	
Endrin aldehyde	Not Detected	20	µg/Kg, dry wt.	03/07/24	DS	
Heptachlor	Not Detected	20	µg/Kg, dry wt.	03/07/24	DS	
Heptachlor Epoxide	Not Detected	20	µg/Kg, dry wt.	03/07/24	DS	
alpha-Hexachlorocyclohexane	Not Detected	10	µg/Kg, dry wt.	03/07/24	DS	
beta-Hexachlorocyclohexane	Not Detected	20	µg/Kg, dry wt.	03/07/24	DS	
delta-Hexachlorocyclohexane	Not Detected	20	µg/Kg, dry wt.	03/07/24	DS	
Lindane	Not Detected	20	µg/Kg, dry wt.	03/07/24	DS	
Methoxychlor	Not Detected	50	µg/Kg, dry wt.	03/07/24	DS	
Toxaphene	Not Detected	170	µg/Kg, dry wt.	03/07/24	DS	
Surrogate Standards						
Tetrachloro-m-xylene	100%	-	% Recovery	03/07/24	DS	
Decachlorobiphenyl	97.1%	-	% Recovery	03/07/24	DS	
Metals						
Arsenic	986	100	µg/Kg, dry wt.	03/12/24	DS	
Barium	59,900	1,000	µg/Kg, dry wt.	03/13/24	DS	
Cadmium	Not Detected	200	µg/Kg, dry wt.	03/12/24	DS	
Chromium	Not Detected	2,000	µg/Kg, dry wt.	03/12/24	DS	
Hexavalent Chromium	Not Detected	2,000	µg/Kg, dry wt.	03/12/24	LB	
Copper	2,400	1,000	µg/Kg, dry wt.	03/12/24	DS	
Lead	1,670	1,000	µg/Kg, dry wt.	03/12/24	DS	
Mercury	Not Detected	50	µg/Kg, dry wt.	03/13/24	DS	
Selenium	Not Detected	200	µg/Kg, dry wt.	03/12/24	DS	
Silver	Not Detected	100	µg/Kg, dry wt.	03/12/24	DS	
Zinc	8,400	1,000	µg/Kg, dry wt.	03/12/24	DS	

continued

Data Qualifiers:
I Internal Standard results outside of acceptance limits
S QC spike recovery outside of acceptance limits
R RPD outside of acceptance limits
E Reporting limit is elevated
D Result is from a dilution
J Result should be considered estimated
M Matrix interference observed
F Matrix Spike four times rule applied
C See Case Narrative

Sample Description:	Location B, 10:55, 3/7/24					
Laboratory ID:	13434-4	Reporting Limit	Units of Measure	Date of Analysis	Analyst	Data Qualifiers
Analysis Information						
Dry Weight Solids	81.2%	-	% by weight	03/07/24	LB	
SVOC Extraction	Completed	-	-	03/11/24	LB	
PCB Extraction	Completed	-	-	03/07/24	LB	
Pesticide Extraction	Completed	-	-	03/07/24	LB	
Herbicide Extraction	Completed	-	-	03/08/24	LB	
Mercury Digestion	Completed	-	-	03/12/24	LB	
Metals Digestion	Completed	-	-	03/12/24	LB	

Sample Description:	Location C, 11:15, 3/7/24					
Laboratory ID:	13434-5	Reporting Limit	Units of Measure	Date of Analysis	Analyst	Data Qualifiers
Volatile Organic Compounds						
Acetone	Not Detected	50	µg/L	03/07/24	BD	
Benzene	Not Detected	1	µg/L	03/07/24	BD	
Bromobenzene	Not Detected	1	µg/L	03/07/24	BD	
Bromochloromethane	Not Detected	1	µg/L	03/07/24	BD	
Bromodichloromethane	Not Detected	1	µg/L	03/07/24	BD	
Bromoform	Not Detected	1	µg/L	03/07/24	BD	
Bromomethane	Not Detected	5	µg/L	03/07/24	BD	
2-Butanone (MEK)	Not Detected	25	µg/L	03/07/24	BD	
n-Butylbenzene	Not Detected	1	µg/L	03/07/24	BD	
sec-Butylbenzene	Not Detected	1	µg/L	03/07/24	BD	
tert-Butylbenzene	Not Detected	1	µg/L	03/07/24	BD	
Carbon disulfide	Not Detected	5	µg/L	03/07/24	BD	
Carbon tetrachloride	Not Detected	1	µg/L	03/07/24	BD	
Chlorobenzene	Not Detected	1	µg/L	03/07/24	BD	
Chloroethane	Not Detected	5	µg/L	03/07/24	BD	
Chloroform	Not Detected	1	µg/L	03/07/24	BD	
Chloromethane	Not Detected	5	µg/L	03/07/24	BD	
2-Chlorotoluene	Not Detected	5	µg/L	03/07/24	BD	
4-Chlorotoluene	Not Detected	5	µg/L	03/07/24	BD	
Dibromochloromethane	Not Detected	5	µg/L	03/07/24	BD	
1,2-Dibromo-3-chloropropane	Not Detected	0.2	µg/L	03/07/24	BD	
Dibromomethane	Not Detected	5	µg/L	03/07/24	BD	
1,2-Dichlorobenzene	Not Detected	1	µg/L	03/07/24	BD	
1,3-Dichlorobenzene	Not Detected	1	µg/L	03/07/24	BD	
1,4-Dichlorobenzene	Not Detected	1	µg/L	03/07/24	BD	
Dichlorodifluoromethane	Not Detected	5	µg/L	03/07/24	BD	
1,1-Dichloroethane	Not Detected	1	µg/L	03/07/24	BD	
1,2-Dichloroethane	Not Detected	1	µg/L	03/07/24	BD	
1,1-Dichloroethylene	Not Detected	1	µg/L	03/07/24	BD	
cis-1,2-Dichloroethylene	Not Detected	1	µg/L	03/07/24	BD	
trans-1,2-Dichloroethylene	Not Detected	1	µg/L	03/07/24	BD	
1,2-Dichloropropane	Not Detected	1	µg/L	03/07/24	BD	
1,3-Dichloropropane	Not Detected	1	µg/L	03/07/24	BD	
2,2-Dichloropropane	Not Detected	1	µg/L	03/07/24	BD	
1,1-Dichloropropene	Not Detected	1	µg/L	03/07/24	BD	
1,3-Dichloropropene	Not Detected	1	µg/L	03/07/24	BD	

continued

Sample Description:	Location C, 11:15, 3/7/24					
Laboratory ID:	13434-5	Reporting Limit	Units of Measure	Date of Analysis	Analyst	Data Qualifiers
VOC's, Cont'd						
Ethylbenzene	Not Detected	1	µg/L	03/07/24	BD	
Ethylene Dibromide (1,2-Dibromoethane)	Not Detected	0.2	µg/L	03/07/24	BD	
Hexachlorobutadiene	Not Detected	0.2	µg/L	03/07/24	BD	
2-Hexanone	Not Detected	50	µg/L	03/07/24	BD	
Isopropyl benzene	Not Detected	5	µg/L	03/07/24	BD	
4-Methyl-2-pentanone (MIBK)	Not Detected	50	µg/L	03/07/24	BD	
Methyl-t-butyl ether (MTBE)	Not Detected	5	µg/L	03/07/24	BD	
Methylene chloride	Not Detected	5	µg/L	03/07/24	BD	
2-Methylnapthalene	Not Detected	5	µg/L	03/07/24	BD	
Naphthalene	Not Detected	5	µg/L	03/07/24	BD	
n-Propyl benzene	Not Detected	1	µg/L	03/07/24	BD	
Styrene	Not Detected	1	µg/L	03/07/24	BD	
1,1,1,2-Tetrachloroethane	Not Detected	1	µg/L	03/07/24	BD	
1,1,2,2-Tetrachloroethane	Not Detected	1	µg/L	03/07/24	BD	
Tetrachloroethylene	Not Detected	1	µg/L	03/07/24	BD	
Tetrahydrofuran	Not Detected	90	µg/L	03/07/24	BD	
Toluene	Not Detected	1	µg/L	03/07/24	BD	
1,2,3-Trichlorobenzene	Not Detected	5	µg/L	03/07/24	BD	
1,2,4-Trichlorobenzene	Not Detected	5	µg/L	03/07/24	BD	
1,1,1-Trichloroethane	Not Detected	1	µg/L	03/07/24	BD	
1,1,2-Trichloroethane	Not Detected	1	µg/L	03/07/24	BD	
Trichloroethylene	Not Detected	1	µg/L	03/07/24	BD	
Trichlorofluoromethane	Not Detected	1	µg/L	03/07/24	BD	
1,2,3-Trichloropropane	Not Detected	1	µg/L	03/07/24	BD	
1,2,3-Trimethylbenzene	Not Detected	1	µg/L	03/07/24	BD	
1,2,4-Trimethylbenzene	Not Detected	1	µg/L	03/07/24	BD	
1,3,5-Trimethylbenzene	Not Detected	1	µg/L	03/07/24	BD	
Vinyl Acetate	Not Detected	100	µg/L	03/07/24	BD	
Vinyl chloride	Not Detected	1	µg/L	03/07/24	BD	
Xylene (Total)	Not Detected	3	µg/L	03/07/24	BD	
Surrogate Standards						
1,2-Dichloroethane-d4	117%	-	% Recovery	03/07/24	BD	
Toluene-d8	103%	-	% Recovery	03/07/24	BD	
4-Bromofluorobenzene	108%	-	% Recovery	03/07/24	BD	

continued

Sample Description:	Location C, 11:15, 3/7/24					
Laboratory ID:	13434-5	Reporting Limit	Units of Measure	Date of Analysis	Analyst	Data Qualifiers
Semi-Volatile Organic Cmpds			□			
Acenaphthene	Not Detected	5	µg/L	03/07/24	BD	
Acenaphthylene	Not Detected	5	µg/L	03/07/24	BD	
Aniline	Not Detected	4	µg/L	03/07/24	BD	
Anthracene	Not Detected	5	µg/L	03/07/24	BD	
Azobenzene	Not Detected	2	µg/L	03/07/24	BD	
Benzidine	Not Detected	2	µg/L	03/07/24	BD	
Benzo(a)anthracene	Not Detected	1	µg/L	03/07/24	BD	
Benzo(b)fluoranthene	Not Detected	1	µg/L	03/07/24	BD	
Benzo(k)fluoranthene	Not Detected	1	µg/L	03/07/24	BD	
Benzo(g,h,i)perylene	Not Detected	1	µg/L	03/07/24	BD	
Benzo(a)pyrene	Not Detected	1	µg/L	03/07/24	BD	
Benzyl alcohol	Not Detected	50	µg/L	03/07/24	BD	
Bis(2-chloroethyl)ether	Not Detected	1	µg/L	03/07/24	BD	
Bis(2-chloroisopropyl)ether	Not Detected	5	µg/L	03/07/24	BD	
Bis(2-chloroethoxy)methane	Not Detected	5	µg/L	03/07/24	BD	
Bis(2-ethylhexyl)phthalate	Not Detected	5	µg/L	03/07/24	BD	
4-Bromophenyl phenyl ether	Not Detected	5	µg/L	03/07/24	BD	
Butyl benzyl phthalate	Not Detected	5	µg/L	03/07/24	BD	
Carbazole	Not Detected	10	µg/L	03/07/24	BD	
4-Chloroaniline	Not Detected	10	µg/L	03/07/24	BD	
4-Chloro-3-methylphenol	Not Detected	5	µg/L	03/07/24	BD	
2-Chloronaphthalene (beta)	Not Detected	5	µg/L	03/07/24	BD	
2-Chlorophenol	Not Detected	10	µg/L	03/07/24	BD	
4-Chlorophenyl phenyl ether	Not Detected	5	µg/L	03/07/24	BD	
Chrysene	Not Detected	1	µg/L	03/07/24	BD	
Di-n-butylphthalate	Not Detected	5	µg/L	03/07/24	BD	
Di-n-octyl phthalate	Not Detected	5	µg/L	03/07/24	BD	
Dibenzo(a,h)anthracene	Not Detected	2	µg/L	03/07/24	BD	
Dibenzofuran	Not Detected	4	µg/L	03/07/24	BD	
3,3'-Dichlorobenzidine	Not Detected	2	µg/L	03/07/24	BD	
2,4-Dichlorophenol	Not Detected	10	µg/L	03/07/24	BD	
Diethylphthalate	Not Detected	5	µg/L	03/07/24	BD	
Dimethyl phthalate	Not Detected	5	µg/L	03/07/24	BD	
2,4-Dimethylphenol	Not Detected	5	µg/L	03/07/24	BD	
2,4-Dinitrophenol	Not Detected	25	µg/L	03/07/24	BD	
2,4-Dinitrotoluene	Not Detected	5	µg/L	03/07/24	BD	
2,6-Dinitrotoluene	Not Detected	5	µg/L	03/07/24	BD	

continued

Data Qualifiers:
I Internal Standard results outside of acceptance limits
S QC spike recovery outside of acceptance limits
R RPD outside of acceptance limits
E Reporting limit is elevated
D Result is from a dilution
J Result should be considered estimated
M Matrix interference observed
F Matrix Spike four times rule applied
C See Case Narrative

Sample Description:	Location C, 11:15, 3/7/24					
Laboratory ID:	13434-5	Reporting Limit	Units of Measure	Date of Analysis	Analyst	Data Qualifiers
SVOC's, Cont'd			□			
Fluoranthene	Not Detected	1	µg/L	03/07/24	BD	
Fluorene	Not Detected	5	µg/L	03/07/24	BD	
Hexachlorobenzene	Not Detected	1	µg/L	03/07/24	BD	
Hexachlorocyclopentadiene	Not Detected	5	µg/L	03/07/24	BD	
Hexachloroethane	Not Detected	5	µg/L	03/07/24	BD	
Indeno(1,2,3-cd)pyrene	Not Detected	2	µg/L	03/07/24	BD	
Isophorone	Not Detected	5	µg/L	03/07/24	BD	
2-Methyl-4,6-Dinitrophenol	Not Detected	20	µg/L	03/07/24	BD	
2-Methylnaphthalene	Not Detected	5	µg/L	03/07/24	BD	
2-Methylphenol	Not Detected	10	µg/L	03/07/24	BD	
4-Methylphenol	Not Detected	10	µg/L	03/07/24	BD	
Methylphenols (total)	Not Detected	30	µg/L	03/07/24	BD	
Naphthalene	Not Detected	5	µg/L	03/07/24	BD	
2-Nitroaniline	Not Detected	25	µg/L	03/07/24	BD	
3-Nitroaniline	Not Detected	25	µg/L	03/07/24	BD	
4-Nitroaniline	Not Detected	25	µg/L	03/07/24	BD	
Nitrobenzene	Not Detected	3	µg/L	03/07/24	BD	
2-Nitrophenol	Not Detected	5	µg/L	03/07/24	BD	
4-Nitrophenol	Not Detected	25	µg/L	03/07/24	BD	
N-Nitrosodi-n-propylamine	Not Detected	5	µg/L	03/07/24	BD	
N-Nitrosodiphenylamine	Not Detected	5	µg/L	03/07/24	BD	
Pentachlorophenol	Not Detected	1	µg/L	03/07/24	BD	
Phenanthrene	Not Detected	2	µg/L	03/07/24	BD	
Phenol	Not Detected	5	µg/L	03/07/24	BD	
Pyrene	Not Detected	5	µg/L	03/07/24	BD	
Pyridine	Not Detected	20	µg/L	03/07/24	BD	
2,4,5-Trichlorophenol	Not Detected	5	µg/L	03/07/24	BD	
2,4,6-Trichlorophenol	Not Detected	4	µg/L	03/07/24	BD	
Surrogate Standards						
2-Fluorophenol	40.6%	-	% Recovery	03/07/24	BD	
Phenol-d5	33.7%	-	% Recovery	03/07/24	BD	
Nitrobenzene-d5	67.4%	-	% Recovery	03/07/24	BD	
2-Fluorobiphenyl	65.9%	-	% Recovery	03/07/24	BD	
2,4,6-Tribromophenol	80.6%	-	% Recovery	03/07/24	BD	
Terphenyl-d14	78.6%	-	% Recovery	03/07/24	BD	
continued						

Sample Description:	Location C, 11:15, 3/7/24					
Laboratory ID:	13434-5	Reporting Limit	Units of Measure	Date of Analysis	Analyst	Data Qualifiers
PCBs						
Aroclor 1016	Not Detected	0.2	µg/L	03/13/24	DS	
Aroclor 1221	Not Detected	0.2	µg/L	03/13/24	DS	
Aroclor 1232	Not Detected	0.2	µg/L	03/13/24	DS	
Aroclor 1242	Not Detected	0.2	µg/L	03/13/24	DS	
Aroclor 1248	Not Detected	0.2	µg/L	03/13/24	DS	
Aroclor 1254	Not Detected	0.2	µg/L	03/13/24	DS	
Aroclor 1260	Not Detected	0.2	µg/L	03/13/24	DS	
Polychlorinated biphenyls (Total)	Not Detected	2	µg/L	03/13/24	DS	
Surrogate Standards						
Tetrachloro-m-xylene	109%	-	% Recovery	03/13/24	DS	
Decachlorobiphenyl	116%	-	% Recovery	03/13/24	DS	
Herbicides						
2,4-D	Not Detected	10	µg/L	03/08/24	DS	
2,4-DB	Not Detected	10	µg/L	03/08/24	DS	
2,4,5-TP (Silvex)	Not Detected	30	µg/L	03/08/24	DS	
2,4,5-T	Not Detected	10	µg/L	03/08/24	DS	
Dalapon	Not Detected	10	µg/L	03/08/24	DS	
Dicamba	Not Detected	1	µg/L	03/08/24	DS	
Dichloroprop	Not Detected	10	µg/L	03/08/24	DS	
Dinoseb	Not Detected	1	µg/L	03/08/24	DS	
MCPA	Not Detected	100	µg/L	03/08/24	DS	
MCPP	Not Detected	100	µg/L	03/08/24	DS	
Surrogate Standards						
DCPAA	80.7%	-	% Recovery	03/08/24	DS	

continued

Data Qualifiers:
I Internal Standard results outside of acceptance limits
S QC spike recovery outside of acceptance limits
R RPD outside of acceptance limits
E Reporting limit is elevated
D Result is from a dilution
J Result should be considered estimated
M Matrix interference observed
F Matrix Spike four times rule applied
C See Case Narrative

Sample Description:	Location C, 11:15, 3/7/24					
Laboratory ID:	13434-5	Reporting Limit	Units of Measure	Date of Analysis	Analyst	Data Qualifiers
Pesticides						
Aldrin	Not Detected	0.01	µg/L	03/11/24	DS	
Chlordane	Not Detected	0.05	µg/L	03/11/24	DS	
4,4'-DDD	Not Detected	0.1	µg/L	03/11/24	DS	
4,4'-DDE	Not Detected	0.1	µg/L	03/11/24	DS	
4,4'-DDT	Not Detected	0.02	µg/L	03/11/24	DS	
Dieldrin	Not Detected	0.02	µg/L	03/11/24	DS	
Endosulfan-alpha	Not Detected	0.015	µg/L	03/11/24	DS	
Endosulfan-beta	Not Detected	0.015	µg/L	03/11/24	DS	
Endosulfan (Total)	Not Detected	0.03	µg/L	03/11/24	DS	
Endosulfan sulfate	Not Detected	0.05	µg/L	03/11/24	DS	
Endrin	Not Detected	0.02	µg/L	03/11/24	DS	
Endrin aldehyde	Not Detected	0.02	µg/L	03/11/24	DS	
Heptachlor	Not Detected	0.01	µg/L	03/11/24	DS	
Heptachlor Epoxide	Not Detected	0.01	µg/L	03/11/24	DS	
alpha-Hexachlorocyclohexane	Not Detected	0.05	µg/L	03/11/24	DS	
beta-Hexachlorocyclohexane	Not Detected	0.02	µg/L	03/11/24	DS	
delta-Hexachlorocyclohexane	Not Detected	0.01	µg/L	03/11/24	DS	
Lindane	Not Detected	0.03	µg/L	03/11/24	DS	
Methoxychlor	Not Detected	0.5	µg/L	03/11/24	DS	
Toxaphene	Not Detected	1	µg/L	03/11/24	DS	
Surrogate Standards						
Tetrachloro-m-xylene	112%	-	% Recovery	03/11/24	DS	
Decachlorobiphenyl	89.5%	-	% Recovery	03/11/24	DS	
Metals						
Arsenic	Not Detected	5	µg/L	03/08/24	DS	
Barium	499	100	µg/L	03/09/24	DS	
Cadmium	Not Detected	1	µg/L	03/08/24	DS	
Chromium	Not Detected	5	µg/L	03/08/24	DS	
Hexavalent Chromium	Not Detected	10	µg/L	03/06/24	LB	
Copper	Not Detected	4	µg/L	03/08/24	DS	
Lead	Not Detected	3	µg/L	03/08/24	DS	
Mercury	Not Detected	0.2	µg/L	03/13/24	DS	
Selenium	Not Detected	5	µg/L	03/08/24	DS	
Silver	Not Detected	0.2	µg/L	03/08/24	DS	
Zinc	Not Detected	50	µg/L	03/08/24	DS	

continued

Sample Description:	Location C, 11:15, 3/7/24					
Laboratory ID:	13434-5	Reporting Limit	Units of Measure	Date of Analysis	Analyst	Data Qualifiers
Analysis Information						
SVOC Extraction	Completed	-	-	03/07/24	LB/BD	
PCB Extraction	Completed	-	-	03/07/24	LB	
Pesticide Extraction	Completed	-	-	03/07/24	LB	
Herbicide Extraction	Completed	-	-	03/07/24	LB/DS	
Mercury Digestion	Completed	-	-	03/12/24	LB	
Metals Digestion	Completed	-	-	03/07/24	LB	

Sample Description:	Location C, 11:20, 3/7/24					
Laboratory ID:	13434-6	Reporting Limit	Units of Measure	Date of Analysis	Analyst	Data Qualifiers
Volatile Organic Compounds						
Acetone	Not Detected	1,000	µg/Kg, dry wt.	03/08/24	BD	
Benzene	Not Detected	50	µg/Kg, dry wt.	03/08/24	BD	
Bromobenzene	Not Detected	100	µg/Kg, dry wt.	03/08/24	BD	
Bromochloromethane	Not Detected	100	µg/Kg, dry wt.	03/08/24	BD	
Bromodichloromethane	Not Detected	100	µg/Kg, dry wt.	03/08/24	BD	
Bromoform	Not Detected	100	µg/Kg, dry wt.	03/08/24	BD	
Bromomethane	Not Detected	200	µg/Kg, dry wt.	03/08/24	BD	
2-Butanone (MEK)	Not Detected	750	µg/Kg, dry wt.	03/08/24	BD	
n-Butylbenzene	Not Detected	50	µg/Kg, dry wt.	03/08/24	BD	
sec-Butylbenzene	Not Detected	50	µg/Kg, dry wt.	03/08/24	BD	
tert-Butylbenzene	Not Detected	50	µg/Kg, dry wt.	03/08/24	BD	
Carbon disulfide	Not Detected	250	µg/Kg, dry wt.	03/08/24	BD	
Carbon tetrachloride	Not Detected	50	µg/Kg, dry wt.	03/08/24	BD	
Chlorobenzene	Not Detected	50	µg/Kg, dry wt.	03/08/24	BD	
Chloroethane	Not Detected	250	µg/Kg, dry wt.	03/08/24	BD	
Chloroform	Not Detected	50	µg/Kg, dry wt.	03/08/24	BD	
Chloromethane	Not Detected	250	µg/Kg, dry wt.	03/08/24	BD	
2-Chlorotoluene	Not Detected	50	µg/Kg, dry wt.	03/08/24	BD	
4-Chlorotoluene	Not Detected	50	µg/Kg, dry wt.	03/08/24	BD	
Dibromochloromethane	Not Detected	100	µg/Kg, dry wt.	03/08/24	BD	
1,2-Dibromo-3-chloropropane	Not Detected	10	µg/Kg, dry wt.	03/08/24	BD	
Dibromomethane	Not Detected	250	µg/Kg, dry wt.	03/08/24	BD	
1,2-Dichlorobenzene	Not Detected	100	µg/Kg, dry wt.	03/08/24	BD	
1,3-Dichlorobenzene	Not Detected	100	µg/Kg, dry wt.	03/08/24	BD	
1,4-Dichlorobenzene	Not Detected	100	µg/Kg, dry wt.	03/08/24	BD	
Dichlorodifluoromethane	Not Detected	250	µg/Kg, dry wt.	03/08/24	BD	
1,1-Dichloroethane	Not Detected	50	µg/Kg, dry wt.	03/08/24	BD	
1,2-Dichloroethane	Not Detected	50	µg/Kg, dry wt.	03/08/24	BD	
1,1-Dichloroethylene	Not Detected	50	µg/Kg, dry wt.	03/08/24	BD	
cis-1,2-Dichloroethylene	Not Detected	50	µg/Kg, dry wt.	03/08/24	BD	
trans-1,2-Dichloroethylene	Not Detected	50	µg/Kg, dry wt.	03/08/24	BD	
1,2-Dichloropropane	Not Detected	50	µg/Kg, dry wt.	03/08/24	BD	
1,3-Dichloropropane	Not Detected	50	µg/Kg, dry wt.	03/08/24	BD	
2,2-Dichloropropane	Not Detected	50	µg/Kg, dry wt.	03/08/24	BD	
1,1-Dichloropropene	Not Detected	50	µg/Kg, dry wt.	03/08/24	BD	
1,3-Dichloropropene	Not Detected	50	µg/Kg, dry wt.	03/08/24	BD	

continued

Sample Description:	Location C, 11:20, 3/7/24					
Laboratory ID:	13434-6	Reporting Limit	Units of Measure	Date of Analysis	Analyst	Data Qualifiers
VOC's, Cont'd						
Ethylbenzene	Not Detected	50	µg/Kg, dry wt.	03/08/24	BD	
Ethylene Dibromide (1,2-Dibromoethane)	Not Detected	20	µg/Kg, dry wt.	03/08/24	BD	
Hexachlorobutadiene	Not Detected	50	µg/Kg, dry wt.	03/08/24	BD	
2-Hexanone	Not Detected	2,500	µg/Kg, dry wt.	03/08/24	BD	
Isopropyl benzene	Not Detected	250	µg/Kg, dry wt.	03/08/24	BD	
4-Methyl-2-pentanone (MIBK)	Not Detected	2,500	µg/Kg, dry wt.	03/08/24	BD	
Methyl-t-butyl ether (MTBE)	Not Detected	250	µg/Kg, dry wt.	03/08/24	BD	
Methylene chloride	Not Detected	250	µg/Kg, dry wt.	03/08/24	BD	
2-Methylnapthalene	Not Detected	250	µg/Kg, dry wt.	03/08/24	BD	
Naphthalene	Not Detected	250	µg/Kg, dry wt.	03/08/24	BD	
n-Propylbenzene	Not Detected	100	µg/Kg, dry wt.	03/08/24	BD	
Styrene	Not Detected	50	µg/Kg, dry wt.	03/08/24	BD	
1,1,1,2-Tetrachloroethane	Not Detected	100	µg/Kg, dry wt.	03/08/24	BD	
1,1,2,2-Tetrachloroethane	Not Detected	50	µg/Kg, dry wt.	03/08/24	BD	
Tetrachloroethylene	Not Detected	50	µg/Kg, dry wt.	03/08/24	BD	
Tetrahydrofuran	Not Detected	1,000	µg/Kg, dry wt.	03/08/24	BD	
Toluene	Not Detected	100	µg/Kg, dry wt.	03/08/24	BD	
1,2,3-Trichlorobenzene	Not Detected	250	µg/Kg, dry wt.	03/08/24	BD	
1,2,4-Trichlorobenzene	Not Detected	250	µg/Kg, dry wt.	03/08/24	BD	
1,1,1-Trichloroethane	Not Detected	50	µg/Kg, dry wt.	03/08/24	BD	
1,1,2-Trichloroethane	Not Detected	50	µg/Kg, dry wt.	03/08/24	BD	
Trichloroethylene	Not Detected	50	µg/Kg, dry wt.	03/08/24	BD	
Trichlorofluoromethane	Not Detected	100	µg/Kg, dry wt.	03/08/24	BD	
1,2,3-Trichloropropane	Not Detected	100	µg/Kg, dry wt.	03/08/24	BD	
1,2,3-Trimethylbenzene	Not Detected	100	µg/Kg, dry wt.	03/08/24	BD	
1,2,4-Trimethylbenzene	Not Detected	100	µg/Kg, dry wt.	03/08/24	BD	
1,3,5-Trimethylbenzene	Not Detected	100	µg/Kg, dry wt.	03/08/24	BD	
Vinyl Acetate	Not Detected	5,000	µg/Kg, dry wt.	03/08/24	BD	
Vinyl Chloride	Not Detected	40	µg/Kg, dry wt.	03/08/24	BD	
Xylene (Total)	Not Detected	150	µg/Kg, dry wt.	03/08/24	BD	
Surrogate Standards						
1,2-Dichloroethane-d4	115%	-	% Recovery	03/08/24	BD	
Toluene-d8	103%	-	% Recovery	03/08/24	BD	
4-Bromofluorobenzene	111%	-	% Recovery	03/08/24	BD	

continued

Sample Description:	Location C, 11:20, 3/7/24					
Laboratory ID:	13434-6	Reporting Limit	Units of Measure	Date of Analysis	Analyst	Data Qualifiers
Semi-Volatile Organic Cmpds						
Acenaphthene	Not Detected	330	µg/Kg, dry wt.	03/11/24	BD	
Acenaphthylene	Not Detected	330	µg/Kg, dry wt.	03/11/24	BD	
Aniline	Not Detected	330	µg/Kg, dry wt.	03/11/24	BD	
Anthracene	Not Detected	330	µg/Kg, dry wt.	03/11/24	BD	
Azobenzene	Not Detected	200	µg/Kg, dry wt.	03/11/24	BD	
Benzidine	Not Detected	1,000	µg/Kg, dry wt.	03/11/24	BD	
Benzo(a)anthracene	Not Detected	330	µg/Kg, dry wt.	03/11/24	BD	
Benzo(b)fluoranthene	Not Detected	330	µg/Kg, dry wt.	03/11/24	BD	
Benzo(k)fluoranthene	Not Detected	330	µg/Kg, dry wt.	03/11/24	BD	
Benzo(g,h,i)perylene	Not Detected	330	µg/Kg, dry wt.	03/11/24	BD	
Benzo(a)pyrene	Not Detected	330	µg/Kg, dry wt.	03/11/24	BD	
Benzyl alcohol	Not Detected	3,300	µg/Kg, dry wt.	03/11/24	BD	
Bis(2-chloroethyl)ether	Not Detected	100	µg/Kg, dry wt.	03/11/24	BD	
Bis(2-chloroisopropyl)ether	Not Detected	330	µg/Kg, dry wt.	03/11/24	BD	
Bis(2-chloroethoxy)methane	Not Detected	330	µg/Kg, dry wt.	03/11/24	BD	
Bis(2-ethylhexyl)phthalate	Not Detected	330	µg/Kg, dry wt.	03/11/24	BD	
4-Bromophenyl phenyl ether	Not Detected	330	µg/Kg, dry wt.	03/11/24	BD	
Butyl benzyl phthalate	Not Detected	330	µg/Kg, dry wt.	03/11/24	BD	
Carbazole	Not Detected	330	µg/Kg, dry wt.	03/11/24	BD	
4-Chloroaniline	Not Detected	330	µg/Kg, dry wt.	03/11/24	BD	
4-Chloro-3-methylphenol	Not Detected	280	µg/Kg, dry wt.	03/11/24	BD	
2-Chloronaphthalene (beta)	Not Detected	330	µg/Kg, dry wt.	03/11/24	BD	
2-Chlorophenol	Not Detected	330	µg/Kg, dry wt.	03/11/24	BD	
4-Chlorophenyl phenyl ether	Not Detected	330	µg/Kg, dry wt.	03/11/24	BD	
Chrysene	Not Detected	330	µg/Kg, dry wt.	03/11/24	BD	
Di-n-butylphthalate	Not Detected	330	µg/Kg, dry wt.	03/11/24	BD	
Di-n-octyl phthalate	Not Detected	330	µg/Kg, dry wt.	03/11/24	BD	
Dibenzo(a,h)anthracene	Not Detected	330	µg/Kg, dry wt.	03/11/24	BD	
Dibenzofuran	Not Detected	330	µg/Kg, dry wt.	03/11/24	BD	
3,3'-Dichlorobenzidine	Not Detected	2,000	µg/Kg, dry wt.	03/11/24	BD	
2,4-Dichlorophenol	Not Detected	330	µg/Kg, dry wt.	03/11/24	BD	
Diethylphthalate	Not Detected	330	µg/Kg, dry wt.	03/11/24	BD	
Dimethyl phthalate	Not Detected	330	µg/Kg, dry wt.	03/11/24	BD	
2,4-Dimethylphenol	Not Detected	330	µg/Kg, dry wt.	03/11/24	BD	
2,4-Dinitrophenol	Not Detected	830	µg/Kg, dry wt.	03/11/24	BD	
2,4-Dinitrotoluene	Not Detected	330	µg/Kg, dry wt.	03/11/24	BD	
2,6-Dinitrotoluene	Not Detected	330	µg/Kg, dry wt.	03/11/24	BD	

continued

Sample Description:	Location C, 11:20, 3/7/24					
Laboratory ID:	13434-6	Reporting Limit	Units of Measure	Date of Analysis	Analyst	Data Qualifiers
SVOC's, Cont'd						
Fluoranthene	Not Detected	330	µg/Kg, dry wt.	03/11/24	BD	
Fluorene	Not Detected	330	µg/Kg, dry wt.	03/11/24	BD	
Hexachlorobenzene	Not Detected	330	µg/Kg, dry wt.	03/11/24	BD	
Hexachlorocyclopentadiene	Not Detected	330	µg/Kg, dry wt.	03/11/24	BD	
Hexachloroethane	Not Detected	300	µg/Kg, dry wt.	03/11/24	BD	
Indeno(1,2,3-cd)pyrene	Not Detected	330	µg/Kg, dry wt.	03/11/24	BD	
Isophorone	Not Detected	330	µg/Kg, dry wt.	03/11/24	BD	
2-Methyl-4,6-Dinitrophenol	Not Detected	830	µg/Kg, dry wt.	03/11/24	BD	
2-Methylnaphthalene	Not Detected	330	µg/Kg, dry wt.	03/11/24	BD	
2-Methylphenol	Not Detected	330	µg/Kg, dry wt.	03/11/24	BD	
4-Methylphenol	Not Detected	330	µg/Kg, dry wt.	03/11/24	BD	
Methylphenols (total)	Not Detected	1,000	µg/Kg, dry wt.	03/11/24	BD	
Naphthalene	Not Detected	330	µg/Kg, dry wt.	03/11/24	BD	
2-Nitroaniline	Not Detected	830	µg/Kg, dry wt.	03/11/24	BD	
3-Nitroaniline	Not Detected	830	µg/Kg, dry wt.	03/11/24	BD	
4-Nitroaniline	Not Detected	830	µg/Kg, dry wt.	03/11/24	BD	
Nitrobenzene	Not Detected	330	µg/Kg, dry wt.	03/11/24	BD	
2-Nitrophenol	Not Detected	330	µg/Kg, dry wt.	03/11/24	BD	
4-Nitrophenol	Not Detected	830	µg/Kg, dry wt.	03/11/24	BD	
N-Nitrosodi-n-propylamine	Not Detected	330	µg/Kg, dry wt.	03/11/24	BD	
N-Nitrosodiphenylamine	Not Detected	330	µg/Kg, dry wt.	03/11/24	BD	
Pentachlorophenol	Not Detected	20	µg/Kg, dry wt.	03/11/24	BD	
Phenanthrene	Not Detected	330	µg/Kg, dry wt.	03/11/24	BD	
Phenol	Not Detected	330	µg/Kg, dry wt.	03/11/24	BD	
Pyrene	Not Detected	330	µg/Kg, dry wt.	03/11/24	BD	
Pyridine	Not Detected	330	µg/Kg, dry wt.	03/11/24	BD	
2,4,5-Trichlorophenol	Not Detected	330	µg/Kg, dry wt.	03/11/24	BD	
2,4,6-Trichlorophenol	Not Detected	330	µg/Kg, dry wt.	03/11/24	BD	
Surrogate Standards						
2-Fluorophenol	80.4%	-	% Recovery	03/11/24	BD	
Phenol-d5	82.2%	-	% Recovery	03/11/24	BD	
Nitrobenzene-d5	64.3%	-	% Recovery	03/11/24	BD	
2-Fluorobiphenyl	63.7%	-	% Recovery	03/11/24	BD	
2,4,6-Tribromophenol	99.3%	-	% Recovery	03/11/24	BD	
Terphenyl-d14	78.5%	-	% Recovery	03/11/24	BD	
continued						

Sample Description:	Location C, 11:20, 3/7/24					
Laboratory ID:	13434-6	Reporting Limit	Units of Measure	Date of Analysis	Analyst	Data Qualifiers
PCBs						
Aroclor 1016	Not Detected	100	µg/Kg, dry wt.	03/14/24	DS	
Aroclor 1221	Not Detected	100	µg/Kg, dry wt.	03/14/24	DS	
Aroclor 1232	Not Detected	100	µg/Kg, dry wt.	03/14/24	DS	
Aroclor 1242	Not Detected	100	µg/Kg, dry wt.	03/14/24	DS	
Aroclor 1248	Not Detected	100	µg/Kg, dry wt.	03/14/24	DS	
Aroclor 1254	Not Detected	100	µg/Kg, dry wt.	03/14/24	DS	
Aroclor 1260	Not Detected	100	µg/Kg, dry wt.	03/14/24	DS	
Polychlorinated biphenyls (Total)	Not Detected	700	µg/Kg, dry wt.	03/14/24	DS	
Surrogate Standards						
Tetrachloro-m-xylene	122%	-	% Recovery	03/14/24	DS	
Decachlorobiphenyl	133%	-	% Recovery	03/14/24	DS	
Herbicides						
2,4-D	Not Detected	200	µg/Kg, dry wt.	03/08/24	DS	
2,4-DB	Not Detected	200	µg/Kg, dry wt.	03/08/24	DS	
2,4,5-TP (Silvex)	Not Detected	300	µg/Kg, dry wt.	03/08/24	DS	
2,4,5-T	Not Detected	500	µg/Kg, dry wt.	03/08/24	DS	
Dalapon	Not Detected	500	µg/Kg, dry wt.	03/08/24	DS	
Dicamba	Not Detected	50	µg/Kg, dry wt.	03/08/24	DS	
Dichloroprop	Not Detected	50	µg/Kg, dry wt.	03/08/24	DS	
Dinoseb	Not Detected	200	µg/Kg, dry wt.	03/08/24	DS	
MCPA	Not Detected	5,000	µg/Kg, dry wt.	03/08/24	DS	
MCPP	Not Detected	5,000	µg/Kg, dry wt.	03/08/24	DS	
Surrogate Standards						
DCPAA	90.9%	-	% Recovery	03/08/24	DS	

continued

Data Qualifiers:
I Internal Standard results outside of acceptance limits
S QC spike recovery outside of acceptance limits
R RPD outside of acceptance limits
E Reporting limit is elevated
D Result is from a dilution
J Result should be considered estimated
M Matrix interference observed
F Matrix Spike four times rule applied
C See Case Narrative

Sample Description:	Location C, 11:20, 3/7/24					
Laboratory ID:	13434-6	Reporting Limit	Units of Measure	Date of Analysis	Analyst	Data Qualifiers
Pesticides						
Aldrin	Not Detected	20	µg/Kg, dry wt.	03/07/24	DS	
Chlordane	Not Detected	30	µg/Kg, dry wt.	03/07/24	DS	
4,4'-DDD	Not Detected	20	µg/Kg, dry wt.	03/07/24	DS	
4,4'-DDE	Not Detected	20	µg/Kg, dry wt.	03/07/24	DS	
4,4'-DDT	Not Detected	20	µg/Kg, dry wt.	03/07/24	DS	
Dieldrin	Not Detected	20	µg/Kg, dry wt.	03/07/24	DS	
Endosulfan-alpha	Not Detected	20	µg/Kg, dry wt.	03/07/24	DS	
Endosulfan-beta	Not Detected	20	µg/Kg, dry wt.	03/07/24	DS	
Endosulfan (Total)	Not Detected	40	µg/Kg, dry wt.	03/07/24	DS	
Endosulfan sulfate	Not Detected	20	µg/Kg, dry wt.	03/07/24	DS	
Endrin	Not Detected	20	µg/Kg, dry wt.	03/07/24	DS	
Endrin aldehyde	Not Detected	20	µg/Kg, dry wt.	03/07/24	DS	
Heptachlor	Not Detected	20	µg/Kg, dry wt.	03/07/24	DS	
Heptachlor Epoxide	Not Detected	20	µg/Kg, dry wt.	03/07/24	DS	
alpha-Hexachlorocyclohexane	Not Detected	10	µg/Kg, dry wt.	03/07/24	DS	
beta-Hexachlorocyclohexane	Not Detected	20	µg/Kg, dry wt.	03/07/24	DS	
delta-Hexachlorocyclohexane	Not Detected	20	µg/Kg, dry wt.	03/07/24	DS	
Lindane	Not Detected	20	µg/Kg, dry wt.	03/07/24	DS	
Methoxychlor	Not Detected	50	µg/Kg, dry wt.	03/07/24	DS	
Toxaphene	Not Detected	170	µg/Kg, dry wt.	03/07/24	DS	
Surrogate Standards						
Tetrachloro-m-xylene	106%	-	% Recovery	03/07/24	DS	
Decachlorobiphenyl	92.4%	-	% Recovery	03/07/24	DS	
Metals						
Arsenic	1,220	100	µg/Kg, dry wt.	03/12/24	DS	
Barium	207,000	1,000	µg/Kg, dry wt.	03/13/24	DS	
Cadmium	Not Detected	200	µg/Kg, dry wt.	03/12/24	DS	
Chromium	6,830	2,000	µg/Kg, dry wt.	03/12/24	DS	
Hexavalent Chromium	Not Detected	2,000	µg/Kg, dry wt.	03/12/24	LB	
Copper	11,200	1,000	µg/Kg, dry wt.	03/12/24	DS	
Lead	2,720	1,000	µg/Kg, dry wt.	03/12/24	DS	
Mercury	Not Detected	50	µg/Kg, dry wt.	03/13/24	DS	
Selenium	Not Detected	200	µg/Kg, dry wt.	03/12/24	DS	
Silver	Not Detected	100	µg/Kg, dry wt.	03/12/24	DS	
Zinc	15,600	1,000	µg/Kg, dry wt.	03/12/24	DS	

continued

Sample Description:	Location C, 11:20, 3/7/24					
Laboratory ID:	13434-6	Reporting Limit	Units of Measure	Date of Analysis	Analyst	Data Qualifiers
Analysis Information						
Dry Weight Solids	94.5%	-	% by weight	03/07/24	LB	
SVOC Extraction	Completed	-	-	03/11/24	LB	
PCB Extraction	Completed	-	-	03/07/24	LB	
Pesticide Extraction	Completed	-	-	03/07/24	LB	
Herbicide Extraction	Completed	-	-	03/08/24	LB	
Mercury Digestion	Completed	-	-	03/12/24	LB	
Metals Digestion	Completed	-	-	03/12/24	LB	

Sample Description:	Location A, 12:05, 3/7/24					
Laboratory ID:	13434-7	Reporting Limit	Units of Measure	Date of Analysis	Analyst	Data Qualifiers
Volatile Organic Compounds						
Acetone	Not Detected	50	µg/L	03/07/24	BD	
Benzene	Not Detected	1	µg/L	03/07/24	BD	
Bromobenzene	Not Detected	1	µg/L	03/07/24	BD	
Bromochloromethane	Not Detected	1	µg/L	03/07/24	BD	
Bromodichloromethane	Not Detected	1	µg/L	03/07/24	BD	
Bromoform	Not Detected	1	µg/L	03/07/24	BD	
Bromomethane	Not Detected	5	µg/L	03/07/24	BD	
2-Butanone (MEK)	Not Detected	25	µg/L	03/07/24	BD	
n-Butylbenzene	Not Detected	1	µg/L	03/07/24	BD	
sec-Butylbenzene	Not Detected	1	µg/L	03/07/24	BD	
tert-Butylbenzene	Not Detected	1	µg/L	03/07/24	BD	
Carbon disulfide	Not Detected	5	µg/L	03/07/24	BD	
Carbon tetrachloride	Not Detected	1	µg/L	03/07/24	BD	
Chlorobenzene	Not Detected	1	µg/L	03/07/24	BD	
Chloroethane	Not Detected	5	µg/L	03/07/24	BD	
Chloroform	Not Detected	1	µg/L	03/07/24	BD	
Chloromethane	Not Detected	5	µg/L	03/07/24	BD	
2-Chlorotoluene	Not Detected	5	µg/L	03/07/24	BD	
4-Chlorotoluene	Not Detected	5	µg/L	03/07/24	BD	
Dibromochloromethane	Not Detected	5	µg/L	03/07/24	BD	
1,2-Dibromo-3-chloropropane	Not Detected	0.2	µg/L	03/07/24	BD	
Dibromomethane	Not Detected	5	µg/L	03/07/24	BD	
1,2-Dichlorobenzene	Not Detected	1	µg/L	03/07/24	BD	
1,3-Dichlorobenzene	Not Detected	1	µg/L	03/07/24	BD	
1,4-Dichlorobenzene	Not Detected	1	µg/L	03/07/24	BD	
Dichlorodifluoromethane	Not Detected	5	µg/L	03/07/24	BD	
1,1-Dichloroethane	Not Detected	1	µg/L	03/07/24	BD	
1,2-Dichloroethane	Not Detected	1	µg/L	03/07/24	BD	
1,1-Dichloroethylene	Not Detected	1	µg/L	03/07/24	BD	
cis-1,2-Dichloroethylene	Not Detected	1	µg/L	03/07/24	BD	
trans-1,2-Dichloroethylene	Not Detected	1	µg/L	03/07/24	BD	
1,2-Dichloropropane	Not Detected	1	µg/L	03/07/24	BD	
1,3-Dichloropropane	Not Detected	1	µg/L	03/07/24	BD	
2,2-Dichloropropane	Not Detected	1	µg/L	03/07/24	BD	
1,1-Dichloropropene	Not Detected	1	µg/L	03/07/24	BD	
1,3-Dichloropropene	Not Detected	1	µg/L	03/07/24	BD	

continued

Sample Description:	Location A, 12:05, 3/7/24					
Laboratory ID:	13434-7	Reporting Limit	Units of Measure	Date of Analysis	Analyst	Data Qualifiers
VOC's, Cont'd						
Ethylbenzene	Not Detected	1	µg/L	03/07/24	BD	
Ethylene Dibromide (1,2-Dibromoethane)	Not Detected	0.2	µg/L	03/07/24	BD	
Hexachlorobutadiene	Not Detected	0.2	µg/L	03/07/24	BD	
2-Hexanone	Not Detected	50	µg/L	03/07/24	BD	
Isopropyl benzene	Not Detected	5	µg/L	03/07/24	BD	
4-Methyl-2-pentanone (MIBK)	Not Detected	50	µg/L	03/07/24	BD	
Methyl-t-butyl ether (MTBE)	Not Detected	5	µg/L	03/07/24	BD	
Methylene chloride	Not Detected	5	µg/L	03/07/24	BD	
2-Methylnapthalene	Not Detected	5	µg/L	03/07/24	BD	
Naphthalene	Not Detected	5	µg/L	03/07/24	BD	
n-Propyl benzene	Not Detected	1	µg/L	03/07/24	BD	
Styrene	Not Detected	1	µg/L	03/07/24	BD	
1,1,1,2-Tetrachloroethane	Not Detected	1	µg/L	03/07/24	BD	
1,1,2,2-Tetrachloroethane	Not Detected	1	µg/L	03/07/24	BD	
Tetrachloroethylene	Not Detected	1	µg/L	03/07/24	BD	
Tetrahydrofuran	Not Detected	90	µg/L	03/07/24	BD	
Toluene	Not Detected	1	µg/L	03/07/24	BD	
1,2,3-Trichlorobenzene	Not Detected	5	µg/L	03/07/24	BD	
1,2,4-Trichlorobenzene	Not Detected	5	µg/L	03/07/24	BD	
1,1,1-Trichloroethane	Not Detected	1	µg/L	03/07/24	BD	
1,1,2-Trichloroethane	Not Detected	1	µg/L	03/07/24	BD	
Trichloroethylene	Not Detected	1	µg/L	03/07/24	BD	
Trichlorofluoromethane	Not Detected	1	µg/L	03/07/24	BD	
1,2,3-Trichloropropane	Not Detected	1	µg/L	03/07/24	BD	
1,2,3-Trimethylbenzene	Not Detected	1	µg/L	03/07/24	BD	
1,2,4-Trimethylbenzene	Not Detected	1	µg/L	03/07/24	BD	
1,3,5-Trimethylbenzene	Not Detected	1	µg/L	03/07/24	BD	
Vinyl Acetate	Not Detected	100	µg/L	03/07/24	BD	
Vinyl chloride	Not Detected	1	µg/L	03/07/24	BD	
Xylene (Total)	Not Detected	3	µg/L	03/07/24	BD	
Surrogate Standards						
1,2-Dichloroethane-d4	114%	-	% Recovery	03/07/24	BD	
Toluene-d8	100%	-	% Recovery	03/07/24	BD	
4-Bromofluorobenzene	110%	-	% Recovery	03/07/24	BD	

continued

Sample Description:	Location A, 12:05, 3/7/24					
Laboratory ID:	13434-7	Reporting Limit	Units of Measure	Date of Analysis	Analyst	Data Qualifiers
Semi-Volatile Organic Cmpds			□			
Acenaphthene	Not Detected	5	µg/L	03/07/24	BD	
Acenaphthylene	Not Detected	5	µg/L	03/07/24	BD	
Aniline	Not Detected	4	µg/L	03/07/24	BD	
Anthracene	Not Detected	5	µg/L	03/07/24	BD	
Azobenzene	Not Detected	2	µg/L	03/07/24	BD	
Benzidine	Not Detected	2	µg/L	03/07/24	BD	
Benzo(a)anthracene	Not Detected	1	µg/L	03/07/24	BD	
Benzo(b)fluoranthene	Not Detected	1	µg/L	03/07/24	BD	
Benzo(k)fluoranthene	Not Detected	1	µg/L	03/07/24	BD	
Benzo(g,h,i)perylene	Not Detected	1	µg/L	03/07/24	BD	
Benzo(a)pyrene	Not Detected	1	µg/L	03/07/24	BD	
Benzyl alcohol	Not Detected	50	µg/L	03/07/24	BD	
Bis(2-chloroethyl)ether	Not Detected	1	µg/L	03/07/24	BD	
Bis(2-chloroisopropyl)ether	Not Detected	5	µg/L	03/07/24	BD	
Bis(2-chloroethoxy)methane	Not Detected	5	µg/L	03/07/24	BD	
Bis(2-ethylhexyl)phthalate	Not Detected	5	µg/L	03/07/24	BD	
4-Bromophenyl phenyl ether	Not Detected	5	µg/L	03/07/24	BD	
Butyl benzyl phthalate	Not Detected	5	µg/L	03/07/24	BD	
Carbazole	Not Detected	10	µg/L	03/07/24	BD	
4-Chloroaniline	Not Detected	10	µg/L	03/07/24	BD	
4-Chloro-3-methylphenol	Not Detected	5	µg/L	03/07/24	BD	
2-Chloronaphthalene (beta)	Not Detected	5	µg/L	03/07/24	BD	
2-Chlorophenol	Not Detected	10	µg/L	03/07/24	BD	
4-Chlorophenyl phenyl ether	Not Detected	5	µg/L	03/07/24	BD	
Chrysene	Not Detected	1	µg/L	03/07/24	BD	
Di-n-butylphthalate	Not Detected	5	µg/L	03/07/24	BD	
Di-n-octyl phthalate	Not Detected	5	µg/L	03/07/24	BD	
Dibenzo(a,h)anthracene	Not Detected	2	µg/L	03/07/24	BD	
Dibenzofuran	Not Detected	4	µg/L	03/07/24	BD	
3,3'-Dichlorobenzidine	Not Detected	2	µg/L	03/07/24	BD	
2,4-Dichlorophenol	Not Detected	10	µg/L	03/07/24	BD	
Diethylphthalate	Not Detected	5	µg/L	03/07/24	BD	
Dimethyl phthalate	Not Detected	5	µg/L	03/07/24	BD	
2,4-Dimethylphenol	Not Detected	5	µg/L	03/07/24	BD	
2,4-Dinitrophenol	Not Detected	25	µg/L	03/07/24	BD	
2,4-Dinitrotoluene	Not Detected	5	µg/L	03/07/24	BD	
2,6-Dinitrotoluene	Not Detected	5	µg/L	03/07/24	BD	

continued

Data Qualifiers:
I Internal Standard results outside of acceptance limits
S QC spike recovery outside of acceptance limits
R RPD outside of acceptance limits
E Reporting limit is elevated
D Result is from a dilution
J Result should be considered estimated
M Matrix interference observed
F Matrix Spike four times rule applied
C See Case Narrative

Sample Description:	Location A, 12:05, 3/7/24					
Laboratory ID:	13434-7	Reporting Limit	Units of Measure	Date of Analysis	Analyst	Data Qualifiers
SVOC's, Cont'd			□			
Fluoranthene	Not Detected	1	µg/L	03/07/24	BD	
Fluorene	Not Detected	5	µg/L	03/07/24	BD	
Hexachlorobenzene	Not Detected	1	µg/L	03/07/24	BD	
Hexachlorocyclopentadiene	Not Detected	5	µg/L	03/07/24	BD	
Hexachloroethane	Not Detected	5	µg/L	03/07/24	BD	
Indeno(1,2,3-cd)pyrene	Not Detected	2	µg/L	03/07/24	BD	
Isophorone	Not Detected	5	µg/L	03/07/24	BD	
2-Methyl-4,6-Dinitrophenol	Not Detected	20	µg/L	03/07/24	BD	
2-Methylnaphthalene	Not Detected	5	µg/L	03/07/24	BD	
2-Methylphenol	Not Detected	10	µg/L	03/07/24	BD	
4-Methylphenol	Not Detected	10	µg/L	03/07/24	BD	
Methylphenols (total)	Not Detected	30	µg/L	03/07/24	BD	
Naphthalene	Not Detected	5	µg/L	03/07/24	BD	
2-Nitroaniline	Not Detected	25	µg/L	03/07/24	BD	
3-Nitroaniline	Not Detected	25	µg/L	03/07/24	BD	
4-Nitroaniline	Not Detected	25	µg/L	03/07/24	BD	
Nitrobenzene	Not Detected	3	µg/L	03/07/24	BD	
2-Nitrophenol	Not Detected	5	µg/L	03/07/24	BD	
4-Nitrophenol	Not Detected	25	µg/L	03/07/24	BD	
N-Nitrosodi-n-propylamine	Not Detected	5	µg/L	03/07/24	BD	
N-Nitrosodiphenylamine	Not Detected	5	µg/L	03/07/24	BD	
Pentachlorophenol	Not Detected	1	µg/L	03/07/24	BD	
Phenanthrene	Not Detected	2	µg/L	03/07/24	BD	
Phenol	Not Detected	5	µg/L	03/07/24	BD	
Pyrene	Not Detected	5	µg/L	03/07/24	BD	
Pyridine	Not Detected	20	µg/L	03/07/24	BD	
2,4,5-Trichlorophenol	Not Detected	5	µg/L	03/07/24	BD	
2,4,6-Trichlorophenol	Not Detected	4	µg/L	03/07/24	BD	
Surrogate Standards						
2-Fluorophenol	39.7%	-	% Recovery	03/07/24	BD	
Phenol-d5	34.0%	-	% Recovery	03/07/24	BD	
Nitrobenzene-d5	70.3%	-	% Recovery	03/07/24	BD	
2-Fluorobiphenyl	69.9%	-	% Recovery	03/07/24	BD	
2,4,6-Tribromophenol	81.5%	-	% Recovery	03/07/24	BD	
Terphenyl-d14	80.7%	-	% Recovery	03/07/24	BD	

continued

Sample Description:	Location A, 12:05, 3/7/24					
Laboratory ID:	13434-7	Reporting Limit	Units of Measure	Date of Analysis	Analyst	Data Qualifiers
PCBs						
Aroclor 1016	Not Detected	0.2	µg/L	03/13/24	DS	
Aroclor 1221	Not Detected	0.2	µg/L	03/13/24	DS	
Aroclor 1232	Not Detected	0.2	µg/L	03/13/24	DS	
Aroclor 1242	Not Detected	0.2	µg/L	03/13/24	DS	
Aroclor 1248	Not Detected	0.2	µg/L	03/13/24	DS	
Aroclor 1254	Not Detected	0.2	µg/L	03/13/24	DS	
Aroclor 1260	Not Detected	0.2	µg/L	03/13/24	DS	
Polychlorinated biphenyls (Total)	Not Detected	2	µg/L	03/13/24	DS	
Surrogate Standards						
Tetrachloro-m-xylene	109%	-	% Recovery	03/13/24	DS	
Decachlorobiphenyl	115%	-	% Recovery	03/13/24	DS	
Herbicides						
2,4-D	Not Detected	10	µg/L	03/08/24	DS	
2,4-DB	Not Detected	10	µg/L	03/08/24	DS	
2,4,5-TP (Silvex)	Not Detected	30	µg/L	03/08/24	DS	
2,4,5-T	Not Detected	10	µg/L	03/08/24	DS	
Dalapon	Not Detected	10	µg/L	03/08/24	DS	
Dicamba	Not Detected	1	µg/L	03/08/24	DS	
Dichloroprop	Not Detected	10	µg/L	03/08/24	DS	
Dinoseb	Not Detected	1	µg/L	03/08/24	DS	
MCPA	Not Detected	100	µg/L	03/08/24	DS	
MCPP	Not Detected	100	µg/L	03/08/24	DS	
Surrogate Standards						
DCPAA	68.2%	-	% Recovery	03/08/24	DS	

continued

Data Qualifiers:
I Internal Standard results outside of acceptance limits
S QC spike recovery outside of acceptance limits
R RPD outside of acceptance limits
E Reporting limit is elevated
D Result is from a dilution
J Result should be considered estimated
M Matrix interference observed
F Matrix Spike four times rule applied
C See Case Narrative

Sample Description:	Location A, 12:05, 3/7/24					
Laboratory ID:	13434-7	Reporting Limit	Units of Measure	Date of Analysis	Analyst	Data Qualifiers
Pesticides						
Aldrin	Not Detected	0.01	µg/L	03/11/24	DS	
Chlordane	Not Detected	0.05	µg/L	03/11/24	DS	
4,4'-DDD	Not Detected	0.1	µg/L	03/11/24	DS	
4,4'-DDE	Not Detected	0.1	µg/L	03/11/24	DS	
4,4'-DDT	Not Detected	0.02	µg/L	03/11/24	DS	
Dieldrin	Not Detected	0.02	µg/L	03/11/24	DS	
Endosulfan-alpha	Not Detected	0.015	µg/L	03/11/24	DS	
Endosulfan-beta	Not Detected	0.015	µg/L	03/11/24	DS	
Endosulfan (Total)	Not Detected	0.03	µg/L	03/11/24	DS	
Endosulfan sulfate	Not Detected	0.05	µg/L	03/11/24	DS	
Endrin	Not Detected	0.02	µg/L	03/11/24	DS	
Endrin aldehyde	Not Detected	0.02	µg/L	03/11/24	DS	
Heptachlor	Not Detected	0.01	µg/L	03/11/24	DS	
Heptachlor Epoxide	Not Detected	0.01	µg/L	03/11/24	DS	
alpha-Hexachlorocyclohexane	Not Detected	0.05	µg/L	03/11/24	DS	
beta-Hexachlorocyclohexane	Not Detected	0.02	µg/L	03/11/24	DS	
delta-Hexachlorocyclohexane	Not Detected	0.01	µg/L	03/11/24	DS	
Lindane	Not Detected	0.03	µg/L	03/11/24	DS	
Methoxychlor	Not Detected	0.5	µg/L	03/11/24	DS	
Toxaphene	Not Detected	1	µg/L	03/11/24	DS	
Surrogate Standards						
Tetrachloro-m-xylene	113%	-	% Recovery	03/11/24	DS	
Decachlorobiphenyl	97.6%	-	% Recovery	03/11/24	DS	
Metals						
Arsenic	Not Detected	5	µg/L	03/08/24	DS	
Barium	301	100	µg/L	03/09/24	DS	
Cadmium	Not Detected	1	µg/L	03/08/24	DS	
Chromium	Not Detected	5	µg/L	03/08/24	DS	
Hexavalent Chromium	Not Detected	10	µg/L	03/06/24	LB	
Copper	9	4	µg/L	03/08/24	DS	
Lead	Not Detected	3	µg/L	03/08/24	DS	
Mercury	Not Detected	0.2	µg/L	03/13/24	DS	
Selenium	Not Detected	5	µg/L	03/08/24	DS	
Silver	Not Detected	0.2	µg/L	03/08/24	DS	
Zinc	Not Detected	50	µg/L	03/08/24	DS	

continued

Sample Description:	Location A, 12:05, 3/7/24					
Laboratory ID:	13434-7	Reporting Limit	Units of Measure	Date of Analysis	Analyst	Data Qualifiers
Analysis Information						
SVOC Extraction	Completed	-	-	03/07/24	LB/BD	
PCB Extraction	Completed	-	-	03/07/24	LB	
Pesticide Extraction	Completed	-	-	03/07/24	LB	
Herbicide Extraction	Completed	-	-	03/07/24	LB/DS	
Mercury Digestion	Completed	-	-	03/12/24	LB	
Metals Digestion	Completed	-	-	03/07/24	LB	

Sample Description:	Location A. 12:10, 3/7/24					
Laboratory ID:	13434-8	Reporting Limit	Units of Measure	Date of Analysis	Analyst	Data Qualifiers
Volatile Organic Compounds						
Acetone	Not Detected	1,000	µg/Kg, dry wt.	03/08/24	BD	
Benzene	Not Detected	50	µg/Kg, dry wt.	03/08/24	BD	
Bromobenzene	Not Detected	100	µg/Kg, dry wt.	03/08/24	BD	
Bromochloromethane	Not Detected	100	µg/Kg, dry wt.	03/08/24	BD	
Bromodichloromethane	Not Detected	100	µg/Kg, dry wt.	03/08/24	BD	
Bromoform	Not Detected	100	µg/Kg, dry wt.	03/08/24	BD	
Bromomethane	Not Detected	200	µg/Kg, dry wt.	03/08/24	BD	
2-Butanone (MEK)	Not Detected	750	µg/Kg, dry wt.	03/08/24	BD	
n-Butylbenzene	Not Detected	50	µg/Kg, dry wt.	03/08/24	BD	
sec-Butylbenzene	Not Detected	50	µg/Kg, dry wt.	03/08/24	BD	
tert-Butylbenzene	Not Detected	50	µg/Kg, dry wt.	03/08/24	BD	
Carbon disulfide	Not Detected	250	µg/Kg, dry wt.	03/08/24	BD	
Carbon tetrachloride	Not Detected	50	µg/Kg, dry wt.	03/08/24	BD	
Chlorobenzene	Not Detected	50	µg/Kg, dry wt.	03/08/24	BD	
Chloroethane	Not Detected	250	µg/Kg, dry wt.	03/08/24	BD	
Chloroform	Not Detected	50	µg/Kg, dry wt.	03/08/24	BD	
Chloromethane	Not Detected	250	µg/Kg, dry wt.	03/08/24	BD	
2-Chlorotoluene	Not Detected	50	µg/Kg, dry wt.	03/08/24	BD	
4-Chlorotoluene	Not Detected	50	µg/Kg, dry wt.	03/08/24	BD	
Dibromochloromethane	Not Detected	100	µg/Kg, dry wt.	03/08/24	BD	
1,2-Dibromo-3-chloropropane	Not Detected	10	µg/Kg, dry wt.	03/08/24	BD	
Dibromomethane	Not Detected	250	µg/Kg, dry wt.	03/08/24	BD	
1,2-Dichlorobenzene	Not Detected	100	µg/Kg, dry wt.	03/08/24	BD	
1,3-Dichlorobenzene	Not Detected	100	µg/Kg, dry wt.	03/08/24	BD	
1,4-Dichlorobenzene	Not Detected	100	µg/Kg, dry wt.	03/08/24	BD	
Dichlorodifluoromethane	Not Detected	250	µg/Kg, dry wt.	03/08/24	BD	
1,1-Dichloroethane	Not Detected	50	µg/Kg, dry wt.	03/08/24	BD	
1,2-Dichloroethane	Not Detected	50	µg/Kg, dry wt.	03/08/24	BD	
1,1-Dichloroethylene	Not Detected	50	µg/Kg, dry wt.	03/08/24	BD	
cis-1,2-Dichloroethylene	Not Detected	50	µg/Kg, dry wt.	03/08/24	BD	
trans-1,2-Dichloroethylene	Not Detected	50	µg/Kg, dry wt.	03/08/24	BD	
1,2-Dichloropropane	Not Detected	50	µg/Kg, dry wt.	03/08/24	BD	
1,3-Dichloropropane	Not Detected	50	µg/Kg, dry wt.	03/08/24	BD	
2,2-Dichloropropane	Not Detected	50	µg/Kg, dry wt.	03/08/24	BD	
1,1-Dichloropropene	Not Detected	50	µg/Kg, dry wt.	03/08/24	BD	
1,3-Dichloropropene	Not Detected	50	µg/Kg, dry wt.	03/08/24	BD	

continued

Sample Description:	Location A. 12:10, 3/7/24					
Laboratory ID:	13434-8	Reporting Limit	Units of Measure	Date of Analysis	Analyst	Data Qualifiers
VOC's, Cont'd						
Ethylbenzene	Not Detected	50	µg/Kg, dry wt.	03/08/24	BD	
Ethylene Dibromide (1,2-Dibromoethane)	Not Detected	20	µg/Kg, dry wt.	03/08/24	BD	
Hexachlorobutadiene	Not Detected	50	µg/Kg, dry wt.	03/08/24	BD	
2-Hexanone	Not Detected	2,500	µg/Kg, dry wt.	03/08/24	BD	
Isopropyl benzene	Not Detected	250	µg/Kg, dry wt.	03/08/24	BD	
4-Methyl-2-pentanone (MIBK)	Not Detected	2,500	µg/Kg, dry wt.	03/08/24	BD	
Methyl-t-butyl ether (MTBE)	Not Detected	250	µg/Kg, dry wt.	03/08/24	BD	
Methylene chloride	Not Detected	250	µg/Kg, dry wt.	03/08/24	BD	
2-Methylnapthalene	Not Detected	250	µg/Kg, dry wt.	03/08/24	BD	
Naphthalene	Not Detected	250	µg/Kg, dry wt.	03/08/24	BD	
n-Propylbenzene	Not Detected	100	µg/Kg, dry wt.	03/08/24	BD	
Styrene	Not Detected	50	µg/Kg, dry wt.	03/08/24	BD	
1,1,1,2-Tetrachloroethane	Not Detected	100	µg/Kg, dry wt.	03/08/24	BD	
1,1,2,2-Tetrachloroethane	Not Detected	50	µg/Kg, dry wt.	03/08/24	BD	
Tetrachloroethylene	Not Detected	50	µg/Kg, dry wt.	03/08/24	BD	
Tetrahydrofuran	Not Detected	1,000	µg/Kg, dry wt.	03/08/24	BD	
Toluene	Not Detected	100	µg/Kg, dry wt.	03/08/24	BD	
1,2,3-Trichlorobenzene	Not Detected	250	µg/Kg, dry wt.	03/08/24	BD	
1,2,4-Trichlorobenzene	Not Detected	250	µg/Kg, dry wt.	03/08/24	BD	
1,1,1-Trichloroethane	Not Detected	50	µg/Kg, dry wt.	03/08/24	BD	
1,1,2-Trichloroethane	Not Detected	50	µg/Kg, dry wt.	03/08/24	BD	
Trichloroethylene	Not Detected	50	µg/Kg, dry wt.	03/08/24	BD	
Trichlorofluoromethane	Not Detected	100	µg/Kg, dry wt.	03/08/24	BD	
1,2,3-Trichloropropane	Not Detected	100	µg/Kg, dry wt.	03/08/24	BD	
1,2,3-Trimethylbenzene	Not Detected	100	µg/Kg, dry wt.	03/08/24	BD	
1,2,4-Trimethylbenzene	Not Detected	100	µg/Kg, dry wt.	03/08/24	BD	
1,3,5-Trimethylbenzene	Not Detected	100	µg/Kg, dry wt.	03/08/24	BD	
Vinyl Acetate	Not Detected	5,000	µg/Kg, dry wt.	03/08/24	BD	
Vinyl Chloride	Not Detected	40	µg/Kg, dry wt.	03/08/24	BD	
Xylene (Total)	Not Detected	150	µg/Kg, dry wt.	03/08/24	BD	
Surrogate Standards						
1,2-Dichloroethane-d4	112%	-	% Recovery	03/08/24	BD	
Toluene-d8	104%	-	% Recovery	03/08/24	BD	
4-Bromofluorobenzene	111%	-	% Recovery	03/08/24	BD	

continued

Sample Description:	Location A. 12:10, 3/7/24					
Laboratory ID:	13434-8	Reporting Limit	Units of Measure	Date of Analysis	Analyst	Data Qualifiers
Semi-Volatile Organic Cmpds						
Acenaphthene	Not Detected	330	µg/Kg, dry wt.	03/11/24	BD	
Acenaphthylene	Not Detected	330	µg/Kg, dry wt.	03/11/24	BD	
Aniline	Not Detected	330	µg/Kg, dry wt.	03/11/24	BD	
Anthracene	Not Detected	330	µg/Kg, dry wt.	03/11/24	BD	
Azobenzene	Not Detected	200	µg/Kg, dry wt.	03/11/24	BD	
Benzidine	Not Detected	1,000	µg/Kg, dry wt.	03/11/24	BD	
Benzo(a)anthracene	Not Detected	330	µg/Kg, dry wt.	03/11/24	BD	
Benzo(b)fluoranthene	Not Detected	330	µg/Kg, dry wt.	03/11/24	BD	
Benzo(k)fluoranthene	Not Detected	330	µg/Kg, dry wt.	03/11/24	BD	
Benzo(g,h,i)perylene	Not Detected	330	µg/Kg, dry wt.	03/11/24	BD	
Benzo(a)pyrene	Not Detected	330	µg/Kg, dry wt.	03/11/24	BD	
Benzyl alcohol	Not Detected	3,300	µg/Kg, dry wt.	03/11/24	BD	
Bis(2-chloroethyl)ether	Not Detected	100	µg/Kg, dry wt.	03/11/24	BD	
Bis(2-chloroisopropyl)ether	Not Detected	330	µg/Kg, dry wt.	03/11/24	BD	
Bis(2-chloroethoxy)methane	Not Detected	330	µg/Kg, dry wt.	03/11/24	BD	
Bis(2-ethylhexyl)phthalate	Not Detected	330	µg/Kg, dry wt.	03/11/24	BD	
4-Bromophenyl phenyl ether	Not Detected	330	µg/Kg, dry wt.	03/11/24	BD	
Butyl benzyl phthalate	Not Detected	330	µg/Kg, dry wt.	03/11/24	BD	
Carbazole	Not Detected	330	µg/Kg, dry wt.	03/11/24	BD	
4-Chloroaniline	Not Detected	330	µg/Kg, dry wt.	03/11/24	BD	
4-Chloro-3-methylphenol	Not Detected	280	µg/Kg, dry wt.	03/11/24	BD	
2-Chloronaphthalene (beta)	Not Detected	330	µg/Kg, dry wt.	03/11/24	BD	
2-Chlorophenol	Not Detected	330	µg/Kg, dry wt.	03/11/24	BD	
4-Chlorophenyl phenyl ether	Not Detected	330	µg/Kg, dry wt.	03/11/24	BD	
Chrysene	Not Detected	330	µg/Kg, dry wt.	03/11/24	BD	
Di-n-butylphthalate	Not Detected	330	µg/Kg, dry wt.	03/11/24	BD	
Di-n-octyl phthalate	Not Detected	330	µg/Kg, dry wt.	03/11/24	BD	
Dibenzo(a,h)anthracene	Not Detected	330	µg/Kg, dry wt.	03/11/24	BD	
Dibenzofuran	Not Detected	330	µg/Kg, dry wt.	03/11/24	BD	
3,3'-Dichlorobenzidine	Not Detected	2,000	µg/Kg, dry wt.	03/11/24	BD	
2,4-Dichlorophenol	Not Detected	330	µg/Kg, dry wt.	03/11/24	BD	
Diethylphthalate	Not Detected	330	µg/Kg, dry wt.	03/11/24	BD	
Dimethyl phthalate	Not Detected	330	µg/Kg, dry wt.	03/11/24	BD	
2,4-Dimethylphenol	Not Detected	330	µg/Kg, dry wt.	03/11/24	BD	
2,4-Dinitrophenol	Not Detected	830	µg/Kg, dry wt.	03/11/24	BD	
2,4-Dinitrotoluene	Not Detected	330	µg/Kg, dry wt.	03/11/24	BD	
2,6-Dinitrotoluene	Not Detected	330	µg/Kg, dry wt.	03/11/24	BD	

continued

Sample Description:	Location A. 12:10, 3/7/24					
Laboratory ID:	13434-8	Reporting Limit	Units of Measure	Date of Analysis	Analyst	Data Qualifiers
SVOC's, Cont'd						
Fluoranthene	Not Detected	330	µg/Kg, dry wt.	03/11/24	BD	
Fluorene	Not Detected	330	µg/Kg, dry wt.	03/11/24	BD	
Hexachlorobenzene	Not Detected	330	µg/Kg, dry wt.	03/11/24	BD	
Hexachlorocyclopentadiene	Not Detected	330	µg/Kg, dry wt.	03/11/24	BD	
Hexachloroethane	Not Detected	300	µg/Kg, dry wt.	03/11/24	BD	
Indeno(1,2,3-cd)pyrene	Not Detected	330	µg/Kg, dry wt.	03/11/24	BD	
Isophorone	Not Detected	330	µg/Kg, dry wt.	03/11/24	BD	
2-Methyl-4,6-Dinitrophenol	Not Detected	830	µg/Kg, dry wt.	03/11/24	BD	
2-Methylnaphthalene	Not Detected	330	µg/Kg, dry wt.	03/11/24	BD	
2-Methylphenol	Not Detected	330	µg/Kg, dry wt.	03/11/24	BD	
4-Methylphenol	Not Detected	330	µg/Kg, dry wt.	03/11/24	BD	
Methylphenols (total)	Not Detected	1,000	µg/Kg, dry wt.	03/11/24	BD	
Naphthalene	Not Detected	330	µg/Kg, dry wt.	03/11/24	BD	
2-Nitroaniline	Not Detected	830	µg/Kg, dry wt.	03/11/24	BD	
3-Nitroaniline	Not Detected	830	µg/Kg, dry wt.	03/11/24	BD	
4-Nitroaniline	Not Detected	830	µg/Kg, dry wt.	03/11/24	BD	
Nitrobenzene	Not Detected	330	µg/Kg, dry wt.	03/11/24	BD	
2-Nitrophenol	Not Detected	330	µg/Kg, dry wt.	03/11/24	BD	
4-Nitrophenol	Not Detected	830	µg/Kg, dry wt.	03/11/24	BD	
N-Nitrosodi-n-propylamine	Not Detected	330	µg/Kg, dry wt.	03/11/24	BD	
N-Nitrosodiphenylamine	Not Detected	330	µg/Kg, dry wt.	03/11/24	BD	
Pentachlorophenol	Not Detected	20	µg/Kg, dry wt.	03/11/24	BD	
Phenanthrene	Not Detected	330	µg/Kg, dry wt.	03/11/24	BD	
Phenol	Not Detected	330	µg/Kg, dry wt.	03/11/24	BD	
Pyrene	Not Detected	330	µg/Kg, dry wt.	03/11/24	BD	
Pyridine	Not Detected	330	µg/Kg, dry wt.	03/11/24	BD	
2,4,5-Trichlorophenol	Not Detected	330	µg/Kg, dry wt.	03/11/24	BD	
2,4,6-Trichlorophenol	Not Detected	330	µg/Kg, dry wt.	03/11/24	BD	
Surrogate Standards						
2-Fluorophenol	77.8%	-	% Recovery	03/11/24	BD	
Phenol-d5	79.1%	-	% Recovery	03/11/24	BD	
Nitrobenzene-d5	61.6%	-	% Recovery	03/11/24	BD	
2-Fluorobiphenyl	59.2%	-	% Recovery	03/11/24	BD	
2,4,6-Tribromophenol	92.8%	-	% Recovery	03/11/24	BD	
Terphenyl-d14	72.8%	-	% Recovery	03/11/24	BD	

continued

Sample Description:	Location A. 12:10, 3/7/24					
Laboratory ID:	13434-8	Reporting Limit	Units of Measure	Date of Analysis	Analyst	Data Qualifiers
PCBs						
Aroclor 1016	Not Detected	100	µg/Kg, dry wt.	03/14/24	DS	
Aroclor 1221	Not Detected	100	µg/Kg, dry wt.	03/14/24	DS	
Aroclor 1232	Not Detected	100	µg/Kg, dry wt.	03/14/24	DS	
Aroclor 1242	Not Detected	100	µg/Kg, dry wt.	03/14/24	DS	
Aroclor 1248	Not Detected	100	µg/Kg, dry wt.	03/14/24	DS	
Aroclor 1254	Not Detected	100	µg/Kg, dry wt.	03/14/24	DS	
Aroclor 1260	Not Detected	100	µg/Kg, dry wt.	03/14/24	DS	
Polychlorinated biphenyls (Total)	Not Detected	700	µg/Kg, dry wt.	03/14/24	DS	
Surrogate Standards						
Tetrachloro-m-xylene	124%	-	% Recovery	03/14/24	DS	
Decachlorobiphenyl	137%	-	% Recovery	03/14/24	DS	
Herbicides						
2,4-D	Not Detected	200	µg/Kg, dry wt.	03/08/24	DS	
2,4-DB	Not Detected	200	µg/Kg, dry wt.	03/08/24	DS	
2,4,5-TP (Silvex)	Not Detected	300	µg/Kg, dry wt.	03/08/24	DS	
2,4,5-T	Not Detected	500	µg/Kg, dry wt.	03/08/24	DS	
Dalapon	Not Detected	500	µg/Kg, dry wt.	03/08/24	DS	
Dicamba	Not Detected	50	µg/Kg, dry wt.	03/08/24	DS	
Dichloroprop	Not Detected	50	µg/Kg, dry wt.	03/08/24	DS	
Dinoseb	Not Detected	200	µg/Kg, dry wt.	03/08/24	DS	
MCPA	Not Detected	5,000	µg/Kg, dry wt.	03/08/24	DS	
MCPP	Not Detected	5,000	µg/Kg, dry wt.	03/08/24	DS	
Surrogate Standards						
DCPAA	89.9%	-	% Recovery	03/08/24	DS	

continued

Data Qualifiers:
I Internal Standard results outside of acceptance limits
S QC spike recovery outside of acceptance limits
R RPD outside of acceptance limits
E Reporting limit is elevated
D Result is from a dilution
J Result should be considered estimated
M Matrix interference observed
F Matrix Spike four times rule applied
C See Case Narrative

Sample Description:	Location A. 12:10, 3/7/24					
Laboratory ID:	13434-8	Reporting Limit	Units of Measure	Date of Analysis	Analyst	Data Qualifiers
Pesticides						
Aldrin	Not Detected	20	µg/Kg, dry wt.	03/07/24	DS	
Chlordane	Not Detected	30	µg/Kg, dry wt.	03/07/24	DS	
4,4'-DDD	Not Detected	20	µg/Kg, dry wt.	03/07/24	DS	
4,4'-DDE	Not Detected	20	µg/Kg, dry wt.	03/07/24	DS	
4,4'-DDT	Not Detected	20	µg/Kg, dry wt.	03/07/24	DS	
Dieldrin	Not Detected	20	µg/Kg, dry wt.	03/07/24	DS	
Endosulfan-alpha	Not Detected	20	µg/Kg, dry wt.	03/07/24	DS	
Endosulfan-beta	Not Detected	20	µg/Kg, dry wt.	03/07/24	DS	
Endosulfan (Total)	Not Detected	40	µg/Kg, dry wt.	03/07/24	DS	
Endosulfan sulfate	Not Detected	20	µg/Kg, dry wt.	03/07/24	DS	
Endrin	Not Detected	20	µg/Kg, dry wt.	03/07/24	DS	
Endrin aldehyde	Not Detected	20	µg/Kg, dry wt.	03/07/24	DS	
Heptachlor	Not Detected	20	µg/Kg, dry wt.	03/07/24	DS	
Heptachlor Epoxide	Not Detected	20	µg/Kg, dry wt.	03/07/24	DS	
alpha-Hexachlorocyclohexane	Not Detected	10	µg/Kg, dry wt.	03/07/24	DS	
beta-Hexachlorocyclohexane	Not Detected	20	µg/Kg, dry wt.	03/07/24	DS	
delta-Hexachlorocyclohexane	Not Detected	20	µg/Kg, dry wt.	03/07/24	DS	
Lindane	Not Detected	20	µg/Kg, dry wt.	03/07/24	DS	
Methoxychlor	Not Detected	50	µg/Kg, dry wt.	03/07/24	DS	
Toxaphene	Not Detected	170	µg/Kg, dry wt.	03/07/24	DS	
Surrogate Standards						
Tetrachloro-m-xylene	102%	-	% Recovery	03/07/24	DS	
Decachlorobiphenyl	96.9%	-	% Recovery	03/07/24	DS	
Metals						
Arsenic	2,340	100	µg/Kg, dry wt.	03/12/24	DS	
Barium	187,000	1,000	µg/Kg, dry wt.	03/13/24	DS	
Cadmium	Not Detected	200	µg/Kg, dry wt.	03/12/24	DS	
Chromium	4,240	2,000	µg/Kg, dry wt.	03/12/24	DS	
Hexavalent Chromium	Not Detected	2,000	µg/Kg, dry wt.	03/12/24	LB	
Copper	4,980	1,000	µg/Kg, dry wt.	03/12/24	DS	
Lead	3,630	1,000	µg/Kg, dry wt.	03/12/24	DS	
Mercury	Not Detected	50	µg/Kg, dry wt.	03/13/24	DS	
Selenium	Not Detected	200	µg/Kg, dry wt.	03/12/24	DS	
Silver	Not Detected	100	µg/Kg, dry wt.	03/12/24	DS	
Zinc	14,200	1,000	µg/Kg, dry wt.	03/12/24	DS	

continued

Data Qualifiers:
I Internal Standard results outside of acceptance limits
S QC spike recovery outside of acceptance limits
R RPD outside of acceptance limits
E Reporting limit is elevated
D Result is from a dilution
J Result should be considered estimated
M Matrix interference observed
F Matrix Spike four times rule applied
C See Case Narrative

Sample Description:	Location A. 12:10, 3/7/24					
Laboratory ID:	13434-8	Reporting Limit	Units of Measure	Date of Analysis	Analyst	Data Qualifiers
Analysis Information						
Dry Weight Solids	74.1%	-	% by weight	03/07/24	LB	
SVOC Extraction	Completed	-	-	03/11/24	LB	
PCB Extraction	Completed	-	-	03/07/24	LB	
Pesticide Extraction	Completed	-	-	03/07/24	LB	
Herbicide Extraction	Completed	-	-	03/08/24	LB	
Mercury Digestion	Completed	-	-	03/12/24	LB	
Metals Digestion	Completed	-	-	03/12/24	LB	

Quality Control

VOC Matrix Spike Data

Spiked Sample: 13432-1	Matrix: Soil			Units: ppb in extract				
Parameter	Sample Result	Spike Added	MS Result	MSD Result	MS % Rec.	MSD % Rec.	RPD	Data Qualifiers
1,1-Dichloroethene	0.0	25	29	28	116	112	3.5	
Benzene	0.0	25	21	22	84	88	4.7	
Trichloroethene	0.0	25	21	23	84	92	9.1	
Toluene	0.0	25	20	21	80	84	4.9	
Chlorobenzene	0.0	25	24	25	96	100	4.1	

Spiked Sample: 13424 LCS	Matrix: Leachate			Units: ppb in solution				
Parameter	Sample Result	Spike Added	MS Result	MSD Result	MS % Rec.	MSD % Rec.	RPD	Data Qualifiers
1,1-Dichloroethene	0.0	25	27	25	108	100	7.7	
Benzene	0.0	25	21	21	84	84	0.0	
Trichloroethene	0.0	25	22	22	88	88	0.0	
Toluene	0.0	25	21	21	84	84	0.0	
Chlorobenzene	0.0	25	25	24	100	96	4.1	

SVOC Matrix Spike Data

Spiked Sample: 13428-11	Matrix: Soil			Units: ppm in extract				
Parameter	Sample Result	Spike Added	MS Result	MSD Result	MS % Rec.	MSD % Rec.	RPD	Data Qualifiers
2-Chlorophenol	0.0	100	79	82	79	82	3.7	
1,4-Dichlorobenzene	0.0	50	33	35	66	70	5.9	
1,2,4-Trichlorobenzene	0.0	50	36	37	72	74	2.7	
4-Chloro-3-methylphenol	0.0	100	77	80	77	80	3.8	
Acenaphthene	0.0	50	24	25	48	50	4.1	
Pentachlorophenol	0.0	100	93	95	93	95	2.1	

Spiked Sample: 13424 LCS	Matrix: Leachate			Units: ppm in extract				
Parameter	Sample Result	Spike Added	MS Result	MSD Result	MS % Rec.	MSD % Rec.	RPD	Data Qualifiers
2-Chlorophenol	0.0	100	65	65	65	65	0.0	
1,4-Dichlorobenzene	0.0	50	28	28	56	56	0.0	
1,2,4-Trichlorobenzene	0.0	50	63	63	126	126	0.0	
4-Chloro-3-methylphenol	0.0	100	63	63	63	63	0.0	
Acenaphthene	0.0	50	23	23	46	46	0.0	
Pentachlorophenol	0.0	100	66	75	66	75	12.8	

Data Qualifiers:
I Internal Standard results outside of acceptance limits
S QC spike recovery outside of acceptance limits
R RPD outside of acceptance limits
E Reporting limit is elevated
D Result is from a dilution
J Result should be considered estimated
M Matrix interference observed
F Matrix Spike four times rule applied
C See Case Narrative

Quality Control, Cont'd

Metals Matrix Spike Data

Spiked Sample: 13434-2 (13433-3 for Hg)					Matrix: Soil		Units: ppb in solution	
Parameter	Sample Result	Spike Added	MS Result	MSD Result	MS % Rec.	MSD % Rec.	RPD	Data Qualifiers
Arsenic	11.9	12.5	18.9	22.2	56	82	15.9	
Barium	337	100	1,000	1,040	663	703	3.9	S, M
Cadmium	0.1	1.3	1.3	1.3	94	97	3.4	
Chromium	9.3	10	19.9	21.9	105	126	9.8	
Copper	14.3	25	31.5	32.0	69	71	1.6	
Lead	10.3	25	31.9	30.6	87	81	4.2	
Mercury	0.6	5.0	5.9	5.9	106	106	0.0	
Selenium	0.0	25	10.4	8.9	42	35	16.5	
Silver	0.0	5.0	3.1	3.3	62	66	6.2	
Zinc	56	500	396	401	68	69	1.3	

Spiked Sample: 13428-12 (LCS for Hg)					Matrix: Water		Units: ppb in solution	
Parameter	Sample Result	Spike Added	MS Result	MSD Result	MS % Rec.	MSD % Rec.	RPD	Data Qualifiers
Arsenic	0.9	12.5	13.6	13.5	102	101	0.7	
Barium	277	100	867	826	590	549	4.8	S, M
Cadmium	0.0	1.3	1.1	1.1	90	89	0.9	
Chromium	0.0	10	9.3	9.0	93	90	2.7	
Copper	4.7	25	28.3	28.8	94	96	1.8	
Lead	2.3	25	24.2	26.0	88	95	7.2	
Mercury	0.0	5.0	4.7	4.7	94	93	1.3	
Selenium	0.0	25	16.6	16.1	66	64	3.2	
Silver	0.0	5.0	2.9	2.9	58	58	1.4	
Zinc	0	500	287	292	57	58	1.7	

Spiked Sample: 13434-2					Matrix: Soil		Units: ppb in solution	
Parameter	Sample Result	Spike Added	MS Result	MSD Result	MS % Rec.	MSD % Rec.	RPD	Data Qualifiers
Cr, Hexavalent	0	500	270	220	54	44	20.4	

Spiked Sample: 13428 LCS					Matrix: Water		Units: ppb in solution	
Parameter	Sample Result	Spike Added	MS Result	MSD Result	MS % Rec.	MSD % Rec.	RPD	Data Qualifiers
Cr, Hexavalent	0	500	520	490	104	98	5.9	

Data Qualifiers:
I Internal Standard results outside of acceptance limits
S QC spike recovery outside of acceptance limits
R RPD outside of acceptance limits
E Reporting limit is elevated
D Result is from a dilution
J Result should be considered estimated
M Matrix interference observed
F Matrix Spike four times rule applied
C See Case Narrative

Quality Control, Cont'd

PCB Matrix Spike Data

Spiked Sample: 13428-7	Matrix: Soil			Units: ppm in extract				
Parameter	Sample Result	Spike Added	MS Result	MSD Result	MS % Rec.	MSD % Rec.	RPD	Data Qualifiers
Aroclor 1260	0.000	0.200	0.207	0.207	104	104	0.1	

Spiked Sample: 13428 LCS	Matrix: Water			Units: ppm in extract				
Parameter	Sample Result	Spike Added	MS Result	MSD Result	MS % Rec.	MSD % Rec.	RPD	Data Qualifiers
Aroclor 1260	0.000	0.200	0.200	0.172	100	86	14.8	

Herbicides Matrix Spike Data

Spiked Sample: 13418-2	Matrix: Soil			Units: ppb in solution				
Parameter	Sample Result	Spike Added	MS Result	MSD Result	MS % Rec.	MSD % Rec.	RPD	Data Qualifiers
2,4-DB	0.0	250	202	212	81	85	4.8	
Dicamba	0.0	25	18.0	20.0	72	80	10.5	
Silvex	0.0	25	23.3	24.8	93	99	6.2	

Spiked Sample: 13428 LCS	Matrix: Water			Units: ppb in solution				
Parameter	Sample Result	Spike Added	MS Result	MSD Result	MS % Rec.	MSD % Rec.	RPD	Data Qualifiers
2,4-DB	0.0	250	219	223	88	89	1.8	
Dicamba	0.0	25	20.7	20.2	83	81	2.4	
Silvex	0.0	25	23.1	23.9	92	96	3.4	

Quality Control, Cont'd

Pesticides Matrix Spike Data

Spiked Sample: 13428-7		Matrix: Soil		Units: ppb in extract				
Parameter	Sample Result	Spike Added	MS Result	MSD Result	MS % Rec.	MSD % Rec.	RPD	Data Qualifiers
BHC-alpha	0.0	50	52.6	56.9	105	114	7.9	
BHC-beta	0.0	50	45.2	48.8	90	98	7.7	
Dieldrin	0.0	50	49.6	53.5	99	107	7.6	
Endosulfan I	0.0	50	48.9	52.3	98	105	6.7	
4,4'-DDD	0.0	50	45.4	48.3	91	97	6.2	

Spiked Sample: 13428 LCS		Matrix: Water		Units: ppb in extract				
Parameter	Sample Result	Spike Added	MS Result	MSD Result	MS % Rec.	MSD % Rec.	RPD	Data Qualifiers
BHC-alpha	0.0	50	45.7	53.3	91	107	15.4	
BHC-beta	0.0	50	43.8	51.1	88	102	15.4	
Dieldrin	0.0	50	41.0	50.5	82	101	20.8	
Endosulfan I	0.0	50	42.3	50.0	85	100	16.7	
4,4'-DDD	0.0	50	39.2	48.1	78	96	20.4	

Case Narrative

Samples 13434-1, 3, 5 and 7 were filtered with a 0.45μm filter prior to digestion and analysis of metals per client's request

All method protocols and quality control requirements were satisfied for all samples.

Notes

(1) Quality Control Limits available upon request.

(2) Results are applicable only to the sample tested.

(3) All samples will be discarded after 30 days unless the laboratory receives other instructions.

(4) Chain of Custody document attached.

QUANTUM LABORATORIES, INC.

David W. Starr
Analytical Chemistry Manager

Quantum Laboratories, Inc.

CHAIN OF CUSTODY RECORD

Women's Business Enterprise National Council
WBENC
Cert. No. 2005111505

QUANTUM LABORATORIES, INC.
28221 Beck Road I Suite A-11
Wixom, MI 48393
248-348-TEST or 248-348-8378

CLIENT INFO	
COMPANY	AKT Peerless
ADDRESS	22728 Orchard Lake Road
CITY, STATE, ZIP	Farmington, MI 48336
TELEPHONE	
FAX	
CONTACT	Hunter Petz, Megan Napier
ADDITIONAL PHONE	248-
EMAIL ADDRESS	petzh@aktpeerless.com napierm@aktpeerless.com

PROJECT INFO	
REPORT NO. (LAB USE)	13434 Page 1 of 1
P.O. NUMBER	
PROJECT NUMBER	13038f-s-20
PROJECT NAME	Galloway Creek
SAMPLING LOCATION	Auburn Hills, MI
SAMPLES COLLECTED BY	Hunter Petz
TURN AROUND TIME	☒ Standard ☐ Rush ☐ By Date:
SPECIAL INSTRUCTIONS	

* SAMPLE TYPE: S=Soil, W=Water, D=Drinking Water, O=Oil/Organic, M=Mixed, V=Vapor, A=Air U=Unknown or Other

** GRAB/COMP: G=Grab Sample, C=Composite Sample

LINE NO.	LAB USE	SAMPLE IDENTIFICATION	NUMBER OF CONTAINERS	TIME SAMPLED	DATE SAMPLED	SAMPLE TYPE *	GRAB / COMP **	VOCs	SVOCs	Michigan 10 metals	PCBs	Herbicides	Pesticides	Hex chromium				REMARKS / PRESERVATIVES
1		Location D	4	10:15	3/7/24	W	G	X	X	X	X	X	X	X				~~Field~~ lab filter metals
2		Location D	2	10:20	3/7/24	S	G	X	X	X	X	X	X	X				
3		Location B	4	10:50	3/7/24	W	G	X	X	X	X	X	X	X				
4		Location B	2	10:55	3/7/24	S	G	X	X	X	X	X	X	X				
5		Location C	4	11:15	3/7/24	W	G	X	X	X	X	X	X	X				
6		Location C	2	11:20	3/7/24	S	G	X	X	X	X	X	X	X				
7		Location A	4	12:05	3/7/24	W	G	X	X	X	X	X	X	X				
8		Location A	2	12:10	3/7/24	S	G	X	X	X	X	X	X	X				
9																		
10																		

XFER	RELINQUISHED BY	TIME / DATE	ACCEPTED BY
1		1:15 3/7/24	
2			
3			

SAMPLE RECEIVED
☐ Wet Ice
☐ Blue Ice

Distribution: White - Lab Copy Yellow - Client Report Pink - Sampler

Data Qualifiers:
I Internal Standard results outside of acceptance limits
S QC spike recovery outside of acceptance limits
R RPD outside of acceptance limits
E Reporting limit is elevated
D Result is from a dilution
J Result should be considered estimated
M Matrix interference observed
F Matrix Spike four times rule applied
C See Case Narrative

Quantum Laboratories, Inc.
Report Number: 13434
Report Date: March 14, 2024
Project Name: Galloway Creek
Project Number: 13038f-s-20
Page: 63 of 63