AKT PEERLESS
ENVIRONMENTAL SERVICES

22725 Orchard Lake Road
Farmington, Michigan 48336
T (248) 615-1333 **F** (248) 615-1334
www.aktpeerless.com

Memorandum

TO: City of Auburn Hills Brownfield Redevelopment Authority

FROM: Brian Westhoff, Senior Project Manager, AKT Peerless

DATE: November 4, 2022

SUBJECT: Galloway Creek – 3rd Quarter 2022 Results

Galloway Creek Sampling

The City of Auburn Hills retained AKT Peerless to coordinate and conduct sampling of the Galloway Creek from four locations within the city limits. One surface water and one sediment sample were collected from each location (refer to attached Figure).

Sample Locations

- Location A: One surface water and one sediment sample were taken from the Galloway Creek north of 4470 Castlewood Drive.
- Location B: One surface water and one sediment sample were taken from the Galloway Creek along Hole #12 at the Fieldstone Golf Club.
- Location C: One surface water and one sediment sample were taken from the Galloway Creek west of 1361 N Opdyke Road.
- Location D: One surface water and one sediment sample were taken from the Galloway Creek west of 1400 N Squirrel Road.

Analytical Results

On August 8, 2022, four surface water and four sediment samples were collected and submitted to Fibertec Environmental Services for analysis of volatile organic compounds (VOCs), semi-volatile organic compounds (SVOCs), polychlorinated biphenyls (PCBs), herbicides, pesticides, Michigan 10 Metals, and hexavalent chromium.

Sediment Results:

- Chromium (total) detected at all four sediment locations was in the trivalent chromium form. Hexavalent chromium was not detected in any of the sediment samples at concentrations exceeding Residential Cleanup Criteria. Therefore, the Chromium (total) is not a concern.
- Location C exceeded Residential Drinking Water Protection Criteria and GSIP Criteria for Arsenic.
- Barium, Cadmium, Copper, Lead, and Zinc were above method detections limits but below Residential Cleanup Criteria from each of the four sediment samples.
- Location C had several SVOC detections above method detection limits as shown on **Table 1.** Of the SVOC constituents detected the following were above Residential Cleanup Criteria: carbazole, fluoranthene, and phenanthrene exceeded GSIP Criteria and benzo(a)anthracene exceed direct contact criteria.

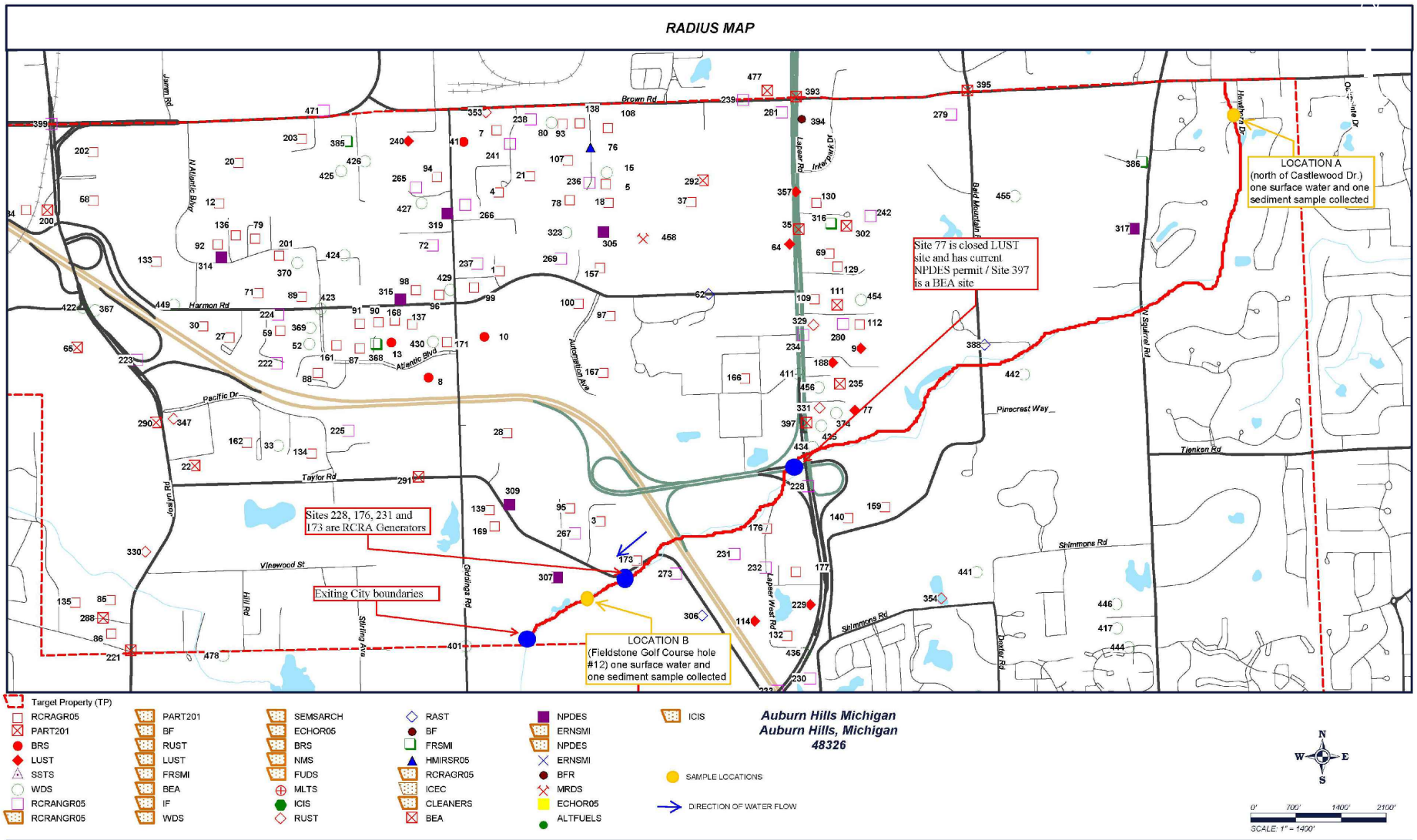
- The four sediment samples were below method detection limits for the remaining VOCs, SVOCs, PCBs, herbicides, pesticides, and Michigan 10 Metals.

Surface Water Results:

- The surface water samples were below method detection limits for VOCs, SVOCs, PCBs, herbicides, pesticides, Michigan 10 Metals, and hexavalent chromium.

Next Actions:

- Future sampling will be on a quarterly basis for the rest of 2022.
- Recommend sharing results with EGLE to identify source of SVOC impacted sediments around Location C.



JOB #: 199674 - 8/9/2017

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SAMPLE LOCATION MAP

NE CORNER OF LAPEER ROAD AND I-75 INTERCHANGE
AUBURN HILLS, MICHIGAN
PROJECT NUMBER: 13038F-3-20

DRAWN BY: MST
DATE: 10/07/2022

SCALE AS SHOWN

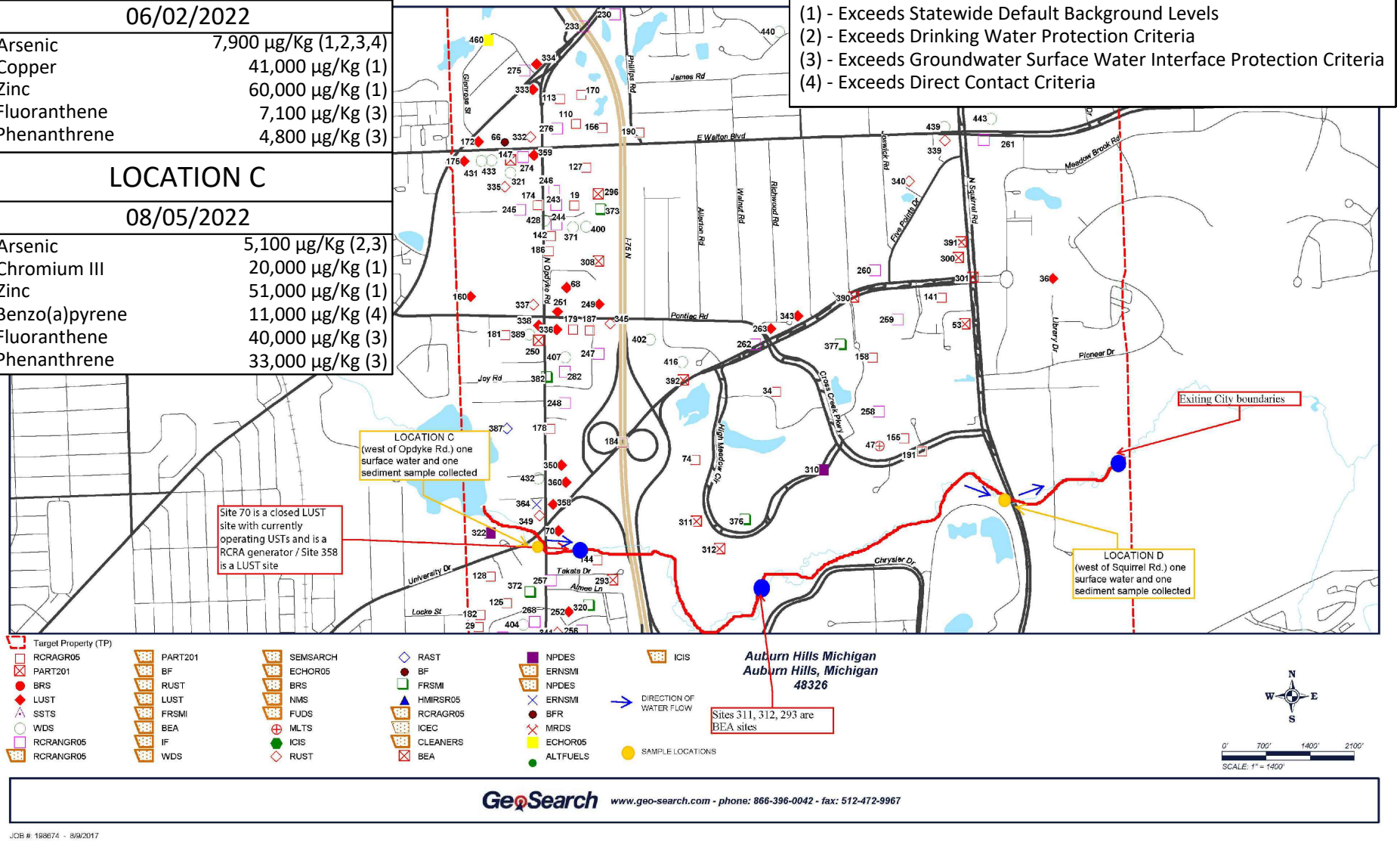
FIGURE 1

LOCATION C	
06/02/2022	
Arsenic	7,900 µg/Kg (1,2,3,4)
Copper	41,000 µg/Kg (1)
Zinc	60,000 µg/Kg (1)
Fluoranthene	7,100 µg/Kg (3)
Phenanthrene	4,800 µg/Kg (3)

LOCATION C	
08/05/2022	
Arsenic	5,100 µg/Kg (2,3)
Chromium III	20,000 µg/Kg (1)
Zinc	51,000 µg/Kg (1)
Benzo(a)pyrene	11,000 µg/Kg (4)
Fluoranthene	40,000 µg/Kg (3)
Phenanthrene	33,000 µg/Kg (3)

CRITERIA NOTE

(1) - Exceeds Statewide Default Background Levels
(2) - Exceeds Drinking Water Protection Criteria
(3) - Exceeds Groundwater Surface Water Interface Protection Criteria
(4) - Exceeds Direct Contact Criteria



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SAMPLE LOCATION MAP

NE CORNER OF LAPEER ROAD AND I-75 INTERCHANGE
AUBURN HILLS, MICHIGAN
PROJECT NUMBER: 13038F-3-20

DRAWN BY: MST
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SCALE AS SHOWN

FIGURE 2

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Table 1 - Summary of Sediment Analytical Results
Galloway Creek
Auburn Hills, Michigan
AKT Peerless Project No. 13038F-3-20

		Residential																					
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**	**Location A**	**Location B**	**Location C**	**Location D**	**Location A**	**Location B**	**Location C**	**Location D**
												Collection Date	**03/25/22**	**03/25/22**	**03/25/22**	**03/25/22**	**06/02/22**	**06/02/22**	**06/02/22**	**06/02/22**	**08/05/22**	**08/05/22**	**08/05/22**	**08/05/22**
												Depth	**Surface**	**Surface**	**Surface**	**Surface**	**Surface**	**Surface**	**Surface**	**Surface**	**Surface**	**Surface**	**Surface**	**Surface**
Metals		NA	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	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		**2,700**	**2,900**	**5,600**	**4,200**	**4,400**	**1,900**	**7,900**	**3,400**	**2,600**	**2,800**	**5,100**	**2,800**
Barium (B)	7440-39-3	75,000	1.3E+6	(G)	NLV	NLV	NLV	NLV	3.3E+8	3.7E+7	NA		**14,000**	**19,000**	**28,000**	**10,000**	**24,000**	**12,000**	**29,000**	**11,000**	**13,000**	**13,000**	**22,000**	**6,500**
Cadmium (B)	7440-43-9	1,200	6,000	(G,X)	NLV	NLV	NLV	NLV	1.7E+6	5.5E+5	NA		**51**	**100**	**230**	<50	**78**	**63**	**200**	<50	<50	**61**	100	<50
Chromium III (B,H)	16065-83-1	**18,000 (total)**	1.0E+9 (D)	(G,X)	NLV	NLV	NLV	NLV	3.3E+8	7.9E+8	NA		**5,800**	**8,700**	**23,000**	**5,900**	**10,000**	**16,000**	**36,000**	**4,700**	**5,900**	**9,600**	**20,000**	**5,000**
Chromium VI	18540-29-9	NA	30,000	3,300	NLV	NLV	NLV	NLV	2.6E+5	2.5E+6	NA		<520	570	<510	<490	**1,800**	**1,300**	<500	<510	<490	<500	<540	<490
Copper (B)	7440-50-8	**32,000**	5.8E+6	(G)	NLV	NLV	NLV	NLV	1.3E+8	2.0E+7	NA		**3,900**	**6,800**	**29,000**	**3,900**	**6,900**	**3,300**	**41,000**	**4,000**	**3,600**	**3,400**	**22,000**	**3,800**
Lead (B)	7439-92-1	21,000	7.0E+5	(G,X)	NLV	NLV	NLV	NLV	1.0E+8	4.0E+5	NA		**3,000**	**14,000**	**12,000**	**3,200**	**4,500**	**2,500**	**10,000**	**2,300**	**2,700**	**13,000**	**7,200**	**2,300**
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	<50	<50	<50	<50	<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	<200	<200	<200	<200	<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	<100	<100	<100	<100	<100	<100	<100	<100	<100
Zinc (B)	7440-66-6	**47,000**	2.4E+6	(G)	NLV	NLV	NLV	NLV	ID	1.7E+8	NA		**18,000**	**35,000**	**57,000**	**19,000**	**28,000**	**20,000**	**60,000**	**16,000**	**18,000**	**36,000**	**51,000**	**13,000**
		NA																						
PCBs ug/Kg		NA																						
PCB, Aroclor 1016	12674-11-2	NA											<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
PCB, Aroclor 1221	11104-28-2	NA											<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
PCB, Aroclor 1232	11141-16-5	NA											<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
PCB, Aroclor 1242	53469-21-9	NA											<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
PCB, Aroclor 1248	12672-29-6	NA											<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
PCB, Aroclor 1254	11097-69-1	NA											<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
PCB, Aroclor 1260	11096-82-5	NA											<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
PCB, Aroclor 1262	37324-23-5	NA											<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
PCB, Aroclor 1268	11100-14-4	NA											<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
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		<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
Organochlorine Herbicides		NA																						
Dalapon	75-99-0	NA	4,000	NA	NLV	NLV	NLV	NLV	ID	1.9E+7	5.9E+7		<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
Dicamba	1918-00-9	NA	4,400	NA	NA	NLV	NLV	NLV	ID	3.4E+6	NA		<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
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	<200	<200	<200	<200	<200	<200	<200	<200
Dinoseb	88-85-7	NA	300	200 (M); 43	NLV	NLV	NLV	NLV	2.7E+8	66,000 (DD)	1.4E+5		<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
Silvex (2,4,5-TP)	93-72-1	NA	3,600	2,200	NLV	NLV	NLV	NLV	ID	1.7E+6	NA		<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200
Organochlorine Pesticides		NA																						
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	<20	<20	<20	<20	<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		<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
4-4'-DDD	72-54-8	NA	NLL	NLL	NLV	NLV	NLV	NLV	4.4E+7	95,000	NA		<20	<20	<20	<20	<20	<20	<20	<20	<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	<20	<20	<20	<20	<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	<20	<20	<20	<20	<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	<20	<20	<20	<20	<20	<20	<20	<20
Endosulfan I	959-98-8	NA											<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20
Endosulfan II	33213-65-9	NA											<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20
Endrin	72-20-8	NA	NLL	NLL	NLV	NLV	NLV	NLV	ID	65,000	NA		<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20
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	<20	<20	<20	<20	<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	<20	<20	<20	<20	<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		<330	<450	<430	<330	<330	<450	<430	<330	<330	<330	<900	<330
alpha-Hexachlorocyclohexane	319-84-6	NA	18	ID	30,000	12,000	22,000	25,000	1.7E+6	2,600	NA		<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20
beta-Hexachlorocyclohexane	319-85-7	NA	37	ID	NLV	NLV	NLV	NLV	5.9E+6	5,400	NA		<20	<20	<20	<20	<20	<20	<20	<20	<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	<20	<20	<20	<20	<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	<50	<50	<50	<50	<50	<50	<50	<50
Semivolatiles																								
Aniline	62-53-3	NA	1,100	330 (M); 80	NLV	NLV	NLV	NLV	6.7E+7	3.3E+5	4.5E+6		<330	<2,300	<2,100	<330	<330	<2,300	<2,100	<330	<1,000	<1,000	<4,500	<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		<330	<450	<430	<330	<330	<450	<430	<330	<330	<330	<900	<330

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Table 1 - Summary of Sediment Analytical Results
Galloway Creek
Auburn Hills, Michigan
AKT Peerless Project No. 13038F-3-20

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	<3,300	<3,300	<3,300	<3,300	<3,300	<3,300	<4,500	<3,300
4-Bromophenyl Phenylether	101-55-3											<330	<450	<430	<330	<330	<450	<430	<330	<330	<330	<900	<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	<450	<430	<330	<330	<450	<430	<330	<1,000	<1,000	<4,500	<330
Carbazole	86-74-8	NA	9,400	**1,100**	NLV	NLV	NLV	NLV	6.2E+7	5.3E+5	NA	<330	<450	<430	<330	<330	<450	<430	<330	<330	<330	**4,700**	<330
4-Chloro-3-methylphenol	59-50-7	NA	5,800	280	NLV	NLV	NLV	NLV	ID	4.5E+6	NA	<280	<450	<430	<280	<280	<450	<430	<280	<1,000	<1,000	<4,500	<280
Bis(2-chloroethoxy)methane	111-91-1											<330	<450	<430	<330	<330	<450	<430	<330	<330	<330	<900	<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	<450	<430	<100	<100	<450	<430	<100	<200	<210	<900	<100
Bis(2-chloroisopropyl) Ether	108-60-1											<330	<450	<430	<330	<330	<450	<430	<330	<330	<330	<900	<330
beta-Chloronaphthalene	91-58-7	NA	6.2E+5	NA	ID	ID	ID	ID	ID	5.6E+7	NA	<330	<450	<430	<330	<330	<450	<430	<330	<330	<330	<900	<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	<450	<430	<330	<330	<450	<430	<330	<330	<330	<900	<330
4-Chlorophenyl Phenylether	7005-72-3											<330	<450	<430	<330	<330	<450	<430	<330	<330	<330	<900	<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	<450	<430	<330	<330	<450	<430	<330	<330	<330	**1,700**	<330
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	<450	<430	<330	<330	<450	<430	<330	<330	<330	<900	<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	<450	<430	<330	<330	<450	<430	<330	<330	<330	<900	<330
2,4-Dimethylphenol	105-67-9	NA	7,400	7,600	NLV	NLV	NLV	NLV	4.7E+9	1.1E+7	NA	<330	<2,300	<2,100	<330	<330	<2,300	<2,100	<330	<330	<330	<900	<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	<450	<430	<330	<330	<450	<430	<330	<330	<330	<900	<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	<450	<430	<330	<330	<450	<430	<330	<330	<330	<900	<330
2,4-Dinitrophenol	51-28-5											<870	<9,100	<8,500	<830	<870	<9,100	<8,500	<830	<4,100	<4,200	<18,000	<830
2,4-Dinitrotoluene	121-14-2	NA	430	NA	NLV	NLV	NLV	NLV	1.6E+7	48,000	NA	<330	<910	<850	<330	<330	<910	<850	<330	<330	<330	<900	<330
2,6-Dinitrotoluene	606-20-2											<330	<450	<430	<330	<330	<450	<430	<330	<330	<330	<900	<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	<2,300	<2,100	<330	<330	<2,300	<2,100	<330	<330	<330	<900	<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	<2,300	<2,100	<330	<330	<2,300	<2,100	<330	<330	<330	<900	<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	<450	<430	<330	<330	<450	<430	<330	<330	<330	<900	<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	<2,300	<2,100	<330	<330	<2,300	<2,100	<330	<1,000	<1,000	<4,500	<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	<330	<450	<430	<330	<330	<450	<430	<330	<330	<330	<900	<330
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	<450	<430	<330	<330	<450	<430	<330	<330	<330	<900	<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	<4,500	<4,300	<830	<830	<4,500	<4,300	<830	<1,000	<1,000	<4,500	<830
Methylphenol, 2-	95-48-7											<330	<450	<430	<330	<330	<450	<430	<330	<330	<330	<900	<330
Methylphenol, 3- and 4-	MEPH1314											<660	<660	<660	<660	<660	<660	<660	<660	<660	<660	<900	<660
2-Nitroaniline	88-74-4											<330	<450	<430	<330	<330	<450	<430	<330	<330	<330	<900	<330
3-Nitroaniline	99-09-2											<830	<830	<830	<830	<830	<830	<830	<830	<830	<830	<900	<830
4-Nitroaniline	100-01-6											<830	<830	<830	<830	<830	<830	<830	<830	<830	<830	<900	<830
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	<450	<430	<330	<330	<450	<430	<330	<330	<330	<900	<330
2-Nitrophenol	88-75-5	NA	400	ID	NLV	NLV	NLV	NLV	ID	6.3E+5	NA	<330	<450	<430	<330	<330	<450	<430	<330	<330	<330	<900	<330
4-Nitrophenol	100-02-7											<830	<2,300	<2,100	<830	<830	<2,300	<2,100	<830	<4,100	<4,200	<18,000	<830
N-Nitrosodimethylamine	62-75-9											<330	<2,300	<2,100	<330	<330	<2,300	<2,100	<330	<330	<330	<900	<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	<450	<430	<330	<330	<450	<430	<330	<330	<330	<900	<330
N-Nitrosodiphenylamine	86-30-6	NA	5,400	NA	NLV	NLV	NLV	NLV	2.2E+9	1.7E+6	NA	<330	<450	<430	<330	<330	<450	<430	<330	<330	<330	<900	<330
Pentachlorophenol	87-86-5	NA	22	(G,X)	NLV	NLV	NLV	NLV	1.0E+8	90,000	NA	<800	<2,300	<2,100	<800	<800	<2,300	<2,100	<800	<4,100	<4,200	<18,000	<820
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	<450	<430	<330	<330	<450	<430	<330	<330	<330	<900	<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	<2,300	<2,100	<330	<330	<2,300	<2,100	<330	<330	<330	<900	<330
2,4,5-Trichlorophenol	95-95-4	NA	39,000	NA	NLV	NLV	NLV	NLV	2.3E+10	2.3E+7	NA	<330	<450	<430	<330	<330	<450	<430	<330	<330	<330	<900	<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	<450	<430	<330	<330	<450	<430	<330	<330	<330	<900	<330
Semivolatiles, 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	<450	<430	<330	<330	<450	<430	<330	<330	<330	**2,700**	<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	<450	<430	<330	<330	<450	<430	<330	<330	<330	<900	<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	<450	<430	<330	<330	<450	<430	<330	<330	<330	**4,700**	<330
Benzo(a)anthracene (Q)	56-55-3	NA	NLL	NLL	NLV	NLV	NLV	NLV	ID	20,000	NA	<330	<450	<430	<330	<330	<450	<430	<330	<330	<330	**13,000**	<330
Benzo(a)pyrene (Q)	50-32-8	NA	NLL	NLL	NLV	NLV	NLV	NLV	1.5E+6	**2,000**	NA	<330	<450	<430	<330	<330	<450	<430	<330	<330	<330	**11,000**	<330
Benzo(b)fluoranthene (Q)	205-99-2	NA	NLL	NLL	ID	ID	ID	ID	ID	20,000	NA	<330	<450	<430	<330	<330	<450	<430	<330	<330	<330	**18,000**	<330
Benzo(g,h,i)perylene	191-24-2	NA	NLL	NLL	NLV	NLV	NLV	NLV	8.0E+8	2.5E+6	NA	<330	<450	<430	<330	<330	<450	<430	<330	<330	<330	**8,800**	<330
Benzo(k)fluoranthene (Q)	207-08-9	NA	NLL	NLL	NLV	NLV	NLV	NLV	ID	2.0E+5	NA	<330	<450	<430	<330	<330	<450	<430	<330	<330	<330	**6,200**	<330
Chrysene (Q)	218-01-9	NA	NLL	NLL	ID	ID	ID	ID	ID	2.0E+6	NA	<330	<450	<430	<330	<330	<450	<430	<330	<330	<330	**15,000**	<330
Dibenzo(a,h)anthracene (Q)	53-70-3	NA	NLL	NLL	NLV	NLV	NLV	NLV	ID	2,000	NA	<330	<450	<430	<330	<330	<450	<430	<330	<330	<330	**1,900**	<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	<450	**470**	<330	<330	<450	**7,100**	<330	<330	<330	**40,000**	<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	<450	<430	<330	<330	<450	<430	<330	<330	<330	**2,500**	<330
Indeno(1,2,3-cd)pyrene (Q)	193-39-5	NA	NLL	NLL	NLV	NLV	NLV	NLV	ID	20,000	NA	<330	<450	<430	<330	<330	<450	<430	<330	<330	<330	**8,100**	<330

AKTPEERLESS

Table 1 - Summary of Sediment Analytical Results
Galloway Creek
Auburn Hills, Michigan
AKT Peerless Project No. 13038F-3-20

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	<450	<430	<330	<330	<450	<430	<330	<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	<450	<430	<330	<330	<450	**4,800**	<330	<330	<330	**33,000**	<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	<450	<430	<330	<330	<450	<430	<330	<330	<330	**32,000**	<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	<170	<170	<170	<170	<170	<170	<170	<170
Volatiles																							
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	<1,000	<1,000	<1,000	<1,000	<1,000	<1,000	<1,000	<1,000
Acrylonitrile (I)	107-13-1	NA	100 (M); 52	100 (M); 40	6,600	5,000	5,100	10,000	4.6E+7	16,000	8.3E+6	<160	<170	<160	<140	<160	<170	<160	<140	<100	<100	<100	<100
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	<50	<50	<50	<50	<50	<76	<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	<100	<100	<100	<100	<100	<100	<100	<100
Bromochloromethane	74-97-5											<100	<100	<100	<100	<100	<100	<100	<100	<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	<100	<100	<100	<100	<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	<160	<170	<160	<140	<160	<170	<160	<140	<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	<200	<200	<200	<200	<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	<820	<840	<780	<750	<820	<840	<780	<750	<750	<760	<750	<750
n-Butylbenzene	104-51-8	NA	1,600	ID	ID	ID	ID	ID	2.0E+9	2.5E+6	1.0E+7	<82	<84	<78	<71	<82	<84	<78	<71	<50	<76	<50	<50
sec-Butylbenzene	135-98-8	NA	1,600	ID	ID	ID	ID	ID	4.0E+8	2.5E+6	1.0E+7	<82	<84	<78	<71	<82	<84	<78	<71	<50	<76	<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	<82	<84	<78	<71	<82	<84	<78	<71	<50	<76	<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	<250	<250	<250	<250	<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	<50	<50	<50	<50	<50	<76	<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	<50	<50	<50	<50	<50	<76	<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	<250	<250	<250	<250	<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	<50	<50	<50	<50	<50	<76	<50	<50
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	<250	<250	<250	<250	<250	<250	<250	<250
o-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	<50	<50	<50	<50	<50	<76	<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	<160	<170	<160	<140	<160	<170	<160	<140	<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	<250	<250	<250	<250	<250	<250	<250	<250	<250	<250	<250	<250
Dibromomethane	74-95-3	NA	1,600	NA	ID	ID	ID	ID	ID	2.5E+6 (C)	2.0E+6	<250	<250	<250	<250	<250	<250	<250	<250	<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	<100	<100	<100	<100	<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	<100	<100	<100	<100	<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	<100	<100	<100	<100	<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	<410	<420	<390	<350	<410	<420	<390	<350	<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	<82	<84	<78	<71	<82	<84	<78	<71	<50	<76	<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	<82	<84	<78	<71	<82	<84	<78	<71	<50	<76	<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	<50	<50	<50	<50	<50	<76	<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	<50	<50	<50	<50	<50	<76	<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	<50	<50	<50	<50	<50	<76	<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	<82	<84	<78	<71	<82	<84	<78	<71	<50	<76	<50	<50
cis-1,3-Dichloropropylene	10061-01-5											<82	<84	<78	<71	<82	<84	<78	<71	<50	<76	<50	<50
trans-1,3-Dichloropropylene	10061-02-6											<82	<84	<78	<71	<82	<84	<78	<71	<50	<76	<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	<50	<50	<50	<50	<50	<76	<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	<50	<50	<50	<50	<50	<50	<50	<50	<50	<76	<50	<50
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	<2,500	<2,500	<2,500	<2,500	<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	<250	<250	<250	<250	<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	<2,500	<2,500	<2,500	<2,500	<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	<160	<170	<160	<140	<160	<170	<160	<140	<100	<100	<100	<100
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	<250	<250	<250	<250	<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	<330	<330	<330	<330	<330	<330	<330	<330	<330	<900	<330	
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	<100	<100	<100	<100	<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	<82	<84	<78	<71	<82	<84	<78	<71	<50	<76	<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	<100	<100	<100	<100	<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	<82	<84	<78	<71	<82	<84	<78	<71	<50	<76	<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	<82	<84	<78	<71	<82	<84	<78	<71	<50	<76	<50	<50
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	<50	<50	<50	<50	<50	<50	<50	<50	<50	<76	<50	<50
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	<250	<250	<250	<250	<330	<330	<900	<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	<82	<84	<78	<71	<82	<84	<78	<71	<50	<76	<50	<50

AKTPEERLESS

Table 1 - Summary of Sediment Analytical Results
Galloway Creek
Auburn Hills, Michigan
AKT Peerless Project No. 13038F-3-20

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	<50	<50	<50	<50	<50	<76	<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		<82	<84	<78	<71	<82	<84	<78	<71	<50	<76	<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	<100	<100	<100	<100	<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		<160	<170	<160	<140	<160	<170	<160	<140	<100	<110	<100	<100
1,2,3-Trimethylbenzene	526-73-8												<100	<100	<100	<100	<100	<100	<100	<100	<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	<100	<100	<100	<100	<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	<100	<100	<100	<100	<100	<100	<100	<100
Vinyl chloride	75-01-4	NA	40	260 (X)	270	4,200	30,000	73,000	3.5E+8	3,800	4.9E+5		<41	<42	<40	<40	<41	<42	<40	<40	<40	<76	<43	<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	<150	<150	<150	<150	<150	<230	<150	<150

AKT PEERLESS

Table 2: Summary of Surface Water Analytical Results
Galloway Creek
Auburn Hills, Michigan
AKT Peerless Project No. 13038F-3-20

Residential																		
Parameters	**Chemical Abstract Service Number**	**Drinking Water Criteria**	**Groundwater Surface Water Interface Criteria**	**Groundwater Volatilization to Indoor Air Inhalation Criteria**	**Water Solubility**	**Flammability and Explosivity Screening Level**	**Sample Location**	Location A	Location B	Location C	Location D	Location A	Location B	Location C	Location D	Location A	Location B	Location C	Location D
(Refer to detailed laboratory report for method reference data)							**Collection Date**	03/25/22	03/25/22	03/25/22	03/25/22	06/02/22	06/02/22	06/02/22	06/02/22	08/05/22	08/05/22	08/05/22	08/05/22
							Screen Depth	Surface	Surface	Surface	Surface	Surface	Surface	Surface	Surface	Surface	Surface	Surface	Surface
Metals																			
Arsenic	7440-38-2	10 (A)	10	NLV	NA	ID		<5.0	<5.0	<5.0	<5.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Barium (B)	7440-39-3	2,000 (A)	(G)	NLV	NA	ID		<100	<100	<100	<100	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Cadmium (B)	7440-43-9	5.0 (A)	(G,X)	NLV	NA	ID		<1.0	<1.0	<1.0	<1.0	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Chromium, Total	7440-47-3	100 (A)	11	NLV	NA	ID		<10	<10	<10	<10	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Chromium VI	18540-29-9	100 (A)	11	NLV	NA	ID		<5.0	<5.0	<5.0	<5.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Copper (B)	7440-50-8	1,000 (E)	(G)	NLV	NA	ID		<4.0	<4.0	<4.0	<4.0	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040
Lead (B)	7439-92-1	4.0 (L)	(G,X)	NLV	NA	ID		<3.0	<3.0	<3.0	<3.0	<0.0030	<0.0030	<0.0030	<0.0030	<0.0030	<0.0030	<0.0030	<0.0030
Mercury, Total	7439-97-6	2.0 (A)	0.0013	56 (S)	56	ID		<0.20	<0.20	<0.20	<0.20	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Selenium (B)	7782-49-2	50 (A)	5.0	NLV	NA	ID		<5.0	<5.0	<5.0	<5.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Silver (B)	7440-22-4	34	0.2 (M); 0.06	NLV	NA	ID		<0.20	<0.20	<0.20	<0.20	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Zinc (B)	7440-66-6	2,400	(G)	NLV	NA	ID		<50	<50	<50	<50	**0.054**	<0.050	<0.050	**0.059**	<0.050	<0.050	<0.050	<0.050
PCBs																			
PCB, Aroclor 1016	12674-11-2							<0.20	<0.20	<0.20	<0.20	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200
PCB, Aroclor 1221	11104-28-2							<0.20	<0.20	<0.20	<0.20	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200
PCB, Aroclor 1232	11141-16-5							<0.20	<0.20	<0.20	<0.20	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200
PCB, Aroclor 1242	53469-21-9							<0.20	<0.20	<0.20	<0.20	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200
PCB, Aroclor 1248	12672-29-6							<0.20	<0.20	<0.20	<0.20	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200
PCB, Aroclor 1254	11097-69-1							<0.20	<0.20	<0.20	<0.20	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200
PCB, Aroclor 1260	11096-82-5							<0.20	<0.20	<0.20	<0.20	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200
PCB, Aroclor 1262	37324-23-5							<0.20	<0.20	<0.20	<0.20	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200
PCB, Aroclor 1268	11100-14-4							<0.20	<0.20	<0.20	<0.20	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200
Polychlorinated biphenyls (PCBs) (J,T)	1336-36-3	0.5 (A)	0.2 (M); 2.6E-5	45 (S)	44.7	ID		<0.20	<0.20	<0.20	<0.20	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200
Pesticides																			
Dalapon	75-99-0	200 (A)	NA	NLV	5.02E+8	ID		<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Dicamba	1918-00-9	220	NA	NLV	4.5E+6	ID		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<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	<10	<10	<10	<10	<10	<10	<10	<10
Dinoseb	88-85-7	7.0 (A)	1.0 (M); 0.48	NLV	52,000	ID		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Silvex (2,4,5-TP)	93-72-1	50 (A)	30	NLV	1.40E+5	ID		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Pesticides, Chlorinated																			
Aldrin	309-00-2	0.098	0.01 (M); 8.7E-6	180 (S)	180	ID		<0.010	<0.010	<0.010	<0.010	<0.0000100	<0.0000100	<0.0000100	<0.0000100	<0.0000100	<0.0000100	<0.0000100	<0.0000100
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	<0.0000500	<0.0000500	<0.0000500	<0.0000500	<0.0000500	<0.0000500	<0.0000500	<0.0000500
4-4'-DDD	72-54-8	9.1	NA	NLV	90	ID		<0.020	<0.020	<0.020	<0.020	<0.0000200	<0.0000200	<0.0000200	<0.0000200	<0.0000200	<0.0000200	<0.0000200	<0.0000200
4-4'-DDE	72-55-9	4.3	NA	NLV	120	ID		<0.020	<0.020	<0.020	<0.020	<0.0000200	<0.0000200	<0.0000200	<0.0000200	<0.0000200	<0.0000200	<0.0000200	<0.0000200
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	<0.0000200	<0.0000200	<0.0000200	<0.0000200	<0.0000200	<0.0000200	<0.0000200	<0.0000200
Dieldrin	60-57-1	0.11	0.02 (M); 6.5E-6	200 (S)	195	ID		<0.020	<0.020	<0.020	<0.020	<0.0000200	<0.0000200	<0.0000200	<0.0000200	<0.0000200	<0.0000200	<0.0000200	<0.0000200
Endosulfan I	959-98-8							<0.030	<0.030	<0.030	<0.030	<0.000500	<0.000500	<0.000500	<0.000500	<0.000500	<0.000500	<0.000500	<0.000500
Endosulfan II	33213-65-9							<0.020	<0.020	<0.020	<0.020	<0.0000200	<0.0000200	<0.0000200	<0.0000200	<0.0000200	<0.0000200	<0.0000200	<0.0000200
Endrin	72-20-8	2.0 (A)	ID	NLV	250	ID		<0.020	<0.020	<0.020	<0.020	<0.0000200	<0.0000200	<0.0000200	<0.0000200	<0.0000200	<0.0000200	<0.0000200	<0.0000200
Heptachlor	76-44-8	0.4 (A)	0.01 (M); 0.0018	180 (S)	180	ID		<0.010	<0.010	<0.010	<0.010	<0.0000100	<0.0000100	<0.0000100	<0.0000100	<0.0000100	<0.0000100	<0.0000100	<0.0000100
Heptachlor epoxide	1024-57-3	0.2 (A)	ID	NLV	200	ID		<0.010	<0.010	<0.010	<0.010	<0.0000100	<0.0000100	<0.0000100	<0.0000100	<0.0000100	<0.0000100	<0.0000100	<0.0000100
Hexachlorobutadiene (C-46)	87-68-3	15	0.053	1,600	3,230	ID		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
alpha-Hexachlorocyclohexane	319-84-6	0.43	ID	2,000 (S)	2,000	ID		<0.010	<0.010	<0.010	<0.010	<0.0000100	<0.0000100	<0.0000100	<0.0000100	<0.0000100	<0.0000100	<0.0000100	<0.0000100
beta-Hexachlorocyclohexane	319-85-7	0.88	ID	NLV	240	ID		<0.010	<0.010	<0.010	<0.010	<0.0000100	<0.0000100	<0.0000100	<0.0000100	<0.0000100	<0.0000100	<0.0000100	<0.0000100
Lindane	58-89-9	0.2 (A)	0.03 (M); 0.026	ID	6,800	ID		<0.010	<0.010	<0.010	<0.010	<0.0000100	<0.0000100	<0.0000100	<0.0000100	<0.0000100	<0.0000100	<0.0000100	<0.0000100
Methoxychlor	72-43-5	40 (A)	NA	ID	45	ID		<0.50	<0.50	<0.50	<0.50	<0.000500	<0.000500	<0.000500	<0.000500	<0.000500	<0.000500	<0.000500	<0.000500
Semivolatiles																			

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Table 2: Summary of Surface Water Analytical Results
Galloway Creek
Auburn Hills, Michigan
AKT Peerless Project No. 13038F-3-20

Residential																		
Parameters *(Refer to detailed laboratory report for method reference data)*	**Chemical Abstract Service Number**	**Drinking Water Criteria**	**Groundwater Surface Water Interface Criteria**	**Groundwater Volatilization to Indoor Air Inhalation Criteria**	**Water Solubility**	**Flammability and Explosivity Screening Level**	**Sample Location**	Location A	Location B	Location C	Location D	Location A	Location B	Location C	Location D	Location A	Location B	Location C	Location D
							Collection Date	03/25/22	03/25/22	03/25/22	03/25/22	06/02/22	06/02/22	06/02/22	06/02/22	08/05/22	08/05/22	08/05/22	08/05/22
							Screen Depth	Surface	Surface	Surface	Surface	Surface	Surface	Surface	Surface	Surface	Surface	Surface	Surface
Aniline	62-53-3	53	4.0 (M); 3.0	NLV	3.60E+7	NA		<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Azobenzene	103-33-3	23	ID	6,400 (S)	6,400	ID		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Benzyl alcohol	100-51-6	10,000	NA	NLV	4.40E+7	ID		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
4-Bromophenyl Phenylether	101-55-3							<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<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	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Carbazole	86-74-8	85	10 (M); 4.0	NLV	7,480	ID		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
4-Chloro-3-methylphenol	59-50-7	150	7.4	NLV	3.90E+6	ID		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Bis(2-chloroethoxy)methane	111-91-1							<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<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	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Bis(2-chloroisopropyl) Ether	108-60-1							<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<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	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
2-Chlorophenol	95-57-8	45	18	4.9E+5	2.20E+7	ID		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
4-Chlorophenyl Phenylether	7005-72-3							<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<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	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
2,4-Dichlorophenol	120-83-2	73	11	NLV	4.50E+6	ID		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Diethyl phthalate	84-66-2	5,500	110	NLV	1.08E+6	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<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	<5.0	<5.0	<5.0	<5.0	<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	<5.0	<5.0	<5.0	<5.0	<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	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
2,4-Dinitrophenol	51-28-5							<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20
2,4-Dinitrotoluene	121-14-2	7.7	NA	NLV	2.70E+5	ID		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
2,6-Dinitrotoluene	606-20-2							<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<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	<5.0	<5.0	<5.0	<5.0	<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	<5.0	<5.0	<5.0	<5.0	<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		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Hexachlorocyclopentadiene (C-56)	77-47-4	50 (A)	ID	130	1,800	ID		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<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	<5.0	<5.0	<5.0	<5.0	<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	<5.0	<5.0	<5.0	<5.0	<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	<20	<20	<20	<20	<20	<20	<20	<20
Methylphenol, 2-	95-48-7		82					<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Methylphenol, 3- and 4-	MEPH1314		25					<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
2-Nitroaniline	88-74-4							<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20
3-Nitroaniline	99-09-2							<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20
4-Nitroaniline	100-01-6							<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20
Nitrobenzene (I)	98-95-3	3.4	180 (X)	2.8E+5	2.09E+6	NA		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<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	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
4-Nitrophenol	100-02-7							<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20
N-Nitrosodimethylamine	62-75-9							<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
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	<5.0	<5.0	<5.0	<5.0	<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	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Pentachlorophenol	87-86-5	1.0 (A)	(G,X)	NLV	1.85E+6	ID		<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20
Phenol	108-95-2	4,400	450	NLV	8.28E+7	NA		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<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		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
2,4,5-Trichlorophenol	95-95-4	730	NA	NLV	1.20E+6	ID		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<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	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Semivolatiles, PNAs																			
Acenaphthene	83-32-9	1,300	38	4,200 (S)	4,240	ID		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<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	<5.0	<5.0	<5.0	<5.0	<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	<5.0	<5.0	<5.0	<5.0	<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	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0

Table 2: Summary of Surface Water Analytical Results
Galloway Creek
Auburn Hills, Michigan
AKT Peerless Project No. 13038F-3-20

Residential																		
Parameters *(Refer to detailed laboratory report for method reference data)*	**Chemical Abstract Service Number**	**Drinking Water Criteria**	**Groundwater Surface Water Interface Criteria**	**Groundwater Volatilization to Indoor Air Inhalation Criteria**	**Water Solubility**	**Flammability and Explosivity Screening Level**	**Sample Location**	Location A	Location B	Location C	Location D	Location A	Location B	Location C	Location D	Location A	Location B	Location C	Location D
							Collection Date	03/25/22	03/25/22	03/25/22	03/25/22	06/02/22	06/02/22	06/02/22	06/02/22	08/05/22	08/05/22	08/05/22	08/05/22
							Screen Depth	Surface	Surface	Surface	Surface	Surface	Surface	Surface	Surface	Surface	Surface	Surface	Surface
Benzo(a)pyrene (Q)	50-32-8	5.0 (A)	ID	NLV	1.62	ID		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<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	<1.0	<1.0	<1.0	<1.0	<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	<1.0	<1.0	<1.0	<1.0	<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	<1.0	<1.0	<1.0	<1.0	<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	<1.0	<1.0	<1.0	<1.0	<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	<2.0	<2.0	<2.0	<2.0	<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	<1.0	<1.0	<1.0	<1.0	<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	<5.0	<5.0	<5.0	<5.0	<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	<2.0	<2.0	<2.0	<2.0	<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	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<0.00500	<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	<2.0	<2.0	<2.0	<2.0	<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	<5.0	<5.0	<5.0	<5.0	<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	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
Volatiles																			
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	<0.0500	<0.0500	<0.0500	<0.0500	<0.0500	<0.0500	<0.0500	<0.0500
Acrylonitrile (I)	107-13-1	2.6	2.0 (M); 1.2	34,000	7.50E+7	6.4E+6		<2.0	<2.0	<2.0	<2.0	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200
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	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
Bromobenzene (I)	108-86-1	18	NA	1.8E+5	4.13E+5	ID		<1.0	<1.0	<1.0	<1.0	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
Bromochloromethane	74-97-5							<1.0	<1.0	<1.0	<1.0	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
Bromodichloromethane	75-27-4	80 (A,W)	ID	4,800	6.74E+6	ID		<1.0	<1.0	<1.0	<1.0	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
Bromoform	75-25-2	80 (A,W)	ID	4.7E+5	3.10E+6	ID		<1.0	<1.0	<1.0	<1.0	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
Bromomethane	74-83-9	10	5.0 (M); 4.2	4,000	1.45E+7	ID		<5.0	<5.0	<5.0	<5.0	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
2-Butanone (MEK) (I)	78-93-3	13,000	2,200	2.4E+8 (S)	2.40E+8	ID		<25	<25	<25	<25	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250
n-Butylbenzene	104-51-8	80	ID	ID	NA	ID		<1.0	<1.0	<1.0	<1.0	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100

AKT PEERLESS

Table 2: Summary of Surface Water Analytical Results
Galloway Creek
Auburn Hills, Michigan
AKT Peerless Project No. 13038F-3-20

Residential																		
Parameters *(Refer to detailed laboratory report for method reference data)*	**Chemical Abstract Service Number**	**Drinking Water Criteria**	**Groundwater Surface Water Interface Criteria**	**Groundwater Volatilization to Indoor Air Inhalation Criteria**	**Water Solubility**	**Flammability and Explosivity Screening Level**	**Sample Location**	Location A	Location B	Location C	Location D	Location A	Location B	Location C	Location D	Location A	Location B	Location C	Location D
							Collection Date	03/25/22	03/25/22	03/25/22	03/25/22	06/02/22	06/02/22	06/02/22	06/02/22	08/05/22	08/05/22	08/05/22	08/05/22
							Screen Depth	Surface	Surface	Surface	Surface	Surface	Surface	Surface	Surface	Surface	Surface	Surface	Surface
sec-Butylbenzene	135-98-8	80	ID	ID	NA	ID		<1.0	<1.0	<1.0	<1.0	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
tert-Butylbenzene (I)	98-06-6	80	ID	ID	NA	ID		<1.0	<1.0	<1.0	<1.0	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
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	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
Carbon tetrachloride	56-23-5	5.0 (A)	38 (X)	370	7.93E+5	ID		<1.0	<1.0	<1.0	<1.0	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
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	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
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	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
Chloroform	67-66-3	80 (A,W)	350	28,000	7.92E+6	ID		<1.0	<1.0	<1.0	<1.0	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
Chloromethane (I)	74-87-3	260	ID	8,600	6.34E+6	36,000		<5.0	<5.0	<5.0	<5.0	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
o-Chlorotoluene (I)	95-49-8	150	ID	2.2E+5	3.73E+5	ID		<1.0	<1.0	<1.0	<1.0	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
Dibromochloromethane	124-48-1	80 (A,W)	ID	14,000	2.60E+6	ID		<5.0	<5.0	<5.0	<5.0	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
Dibromochloropropane	96-12-8	0.2 (A)	ID	220	1,230	NA		<1.0	<1.0	<1.0	<1.0	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
Dibromomethane	74-95-3	80	NA	ID	1.10E+7	ID		<5.0	<5.0	<5.0	<5.0	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
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	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
1,3-Dichlorobenzene	541-73-1	6.6	28	18,000	1.11E+5	ID		<1.0	<1.0	<1.0	<1.0	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
1,4-Dichlorobenzene	106-46-7	75 (A)	17	16,000	73,800	NA		<1.0	<1.0	<1.0	<1.0	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
Dichlorodifluoromethane	75-71-8	1,700	ID	2.2E+5	3.00E+5	ID		<5.0	<5.0	<5.0	<5.0	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
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	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
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	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
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	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
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	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
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	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
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	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
cis-1,3-Dichloropropylene	10061-01-5							<1.0	<1.0	<1.0	<1.0	<0.000500	<0.000500	<0.000500	<0.000500	<0.000500	<0.000500	<0.000500	<0.000500
trans-1,3-Dichloropropylene	10061-02-6							<1.0	<1.0	<1.0	<1.0	<0.000500	<0.000500	<0.000500	<0.000500	<0.000500	<0.000500	<0.000500	<0.000500
Ethylbenzene (I)	100-41-4	74 (E)	18	1.1E+5	1.69E+5	43,000		<1.0	<1.0	<1.0	<1.0	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
Ethylene dibromide	106-93-4	0.05 (A)	5.7 (X)	2,400	4.20E+6	ID		<1.0	<1.0	<1.0	<1.0	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
2-Hexanone	591-78-6	1,000	ID	4.2E+6	1.60E+7	NA		<5.0	<5.0	<5.0	<5.0	<0.0500	<0.0500	<0.0500	<0.0500	<0.0500	<0.0500	<0.0500	<0.0500
Isopropyl benzene	98-82-8	800	28	56,000 (S)	56,000	29,000		<1.0	<1.0	<1.0	<1.0	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
4-Methyl-2-pentanone (MIBK) (I)	108-10-1	1,800	ID	2.0E+7 (S)	2.00E+7	ID		<1.0	<1.0	<1.0	<1.0	<0.0500	<0.0500	<0.0500	<0.0500	<0.0500	<0.0500	<0.0500	<0.0500
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	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
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	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
Naphthalene	91-20-3	520	11	31,000 (S)	31,000	NA		<5.0	<5.0	<5.0	<5.0	<0.00500	<0.00500	<0.00500	<0.00500	<5.0	<0.00500	<0.00500	<5.0
n-Propylbenzene (I)	103-65-1	80	ID	ID	NA	ID		<1.0	<1.0	<1.0	<1.0	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
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	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
1,1,1,2-Tetrachloroethane	630-20-6	77	ID	15,000	1.10E+6	ID		<1.0	<1.0	<1.0	<1.0	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
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	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
Tetrachloroethylene	127-18-4	5.0 (A)	60 (X)	25,000	2.0E+5	ID		<1.0	<1.0	<1.0	<1.0	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
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	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
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	<0.00500	<0.00500	<0.00500	<0.00500	<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	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
Trichlorofluoromethane	75-69-4	2,600	NA	1.1E+6 (S)	1.10E+6	ID		<1.0	<1.0	<1.0	<1.0	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
1,2,3-Trichloropropane	96-18-4	42	NA	8,300	1.90E+6	NA		<1.0	<1.0	<1.0	<1.0	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
1,2,3-Trimethylbenzene	526-73-8							<5.0	<5.0	<5.0	<5.0	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
1,2,4-Trimethylbenzene (I)	95-63-6	63 (E)	17	56,000 (S)	55,890	56,000 (S)		<5.0	<5.0	<5.0	<5.0	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
1,3,5-Trimethylbenzene (I)	108-67-8	72 (E)	45	61,000 (S)	61,150	ID		<5.0	<5.0	<5.0	<5.0	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
Vinyl chloride	75-01-4	2.0 (A)	13 (X)	1,100	2.76E+6	33,000		<5.0	<5.0	<5.0	<5.0	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
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	<0.00300	<0.00300	<0.00300	<0.00300	<0.00300	<0.00300	<0.00300	<0.00300

R 299.49 FOOTNOTES
(as last revised by MDEQ on December 30, 2013)
FOR GENERIC CLEANUP CRITERIA TABLES
Cleanup Criteria Requirements for Response Activity (formerly the Part 201 Generic Cleanup Criteria and Screening Levels)

(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 (C_{sat}). 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 C_{sat} 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 $CaCO_3$/L, use 400 mg $CaCO_3$/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 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 [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 ug/kg.
(O) The concentration of all polychlorinated and polybrominated dibenzodioxin and dibenzofuran isomers present at a facility, expressed as an equivalent concentration of 2,3,7,8-tetrachlorodibenzo-p-dioxin based upon their relative potency, shall be added together and compared to the criteria for 2,3,7,8-tetrachlorodibenzo-p-dioxin. The generic cleanup criteria for 2,3,7,8-tetrachlorodibenzo-p-dioxin are not calculated according to the algorithms presented in R 299.14 to R 299.26. The generic cleanup criteria are being held at the values that the DEQ has used since August 1998, in recognition of the fact that national efforts to reassess risks posed by dioxin are not yet complete. Until these studies are complete, it is premature to select a revised slope factor and/or reference dose for calculation of generic cleanup criteria.
(P) Amenable cyanide methods or method OIA-1677 shall be used to quantify cyanide concentrations for compliance with all groundwater criteria. Total cyanide methods or method OIA-1677 shall be used to quantify cyanide concentrations for compliance with soil criteria. Nonresidential direct contact criteria may not be protective of the potential for release of hydrogen cyanide gas. Additional land or resource use restrictions may be necessary to protect for the acute inhalation concerns associated with hydrogen cyanide gas.
(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 [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.
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.

Fibertec
environmental
services

Tuesday, August 23, 2022

Fibertec Project Number:	A10144
Project Identification:	13038F-3-20 /13038F-3-20
Submittal Date:	08/05/2022

Mr. Brian Westhoff
AKT Peerless Environ. Svcs, Inc. - Farm. Hills
22725 Orchard Lake Road
Farmington Hills, MI 48336

Dear Mr. Westhoff,

Thank you for selecting Fibertec Environmental Services as your analytical laboratory. The samples you submitted have been analyzed in accordance with NELAC standards and the results compiled in the attached report. Any exceptions to NELAC compliance are noted in the report. These results apply only to those samples submitted. Please note TO-15 samples will be disposed of 7 calendar days after the reporting date. All other samples will be disposed of 30 days after the reporting date.

If you have any questions regarding these results or if we may be of further assistance to you, please contact me at (517) 699-0345.

Sincerely,

By Katherine Jones at 1:15 PM, Aug 23, 2022

For Daryl P. Strandbergh
Laboratory Director

Enclosures

Fibertec environmental services

Analytical Laboratory Report
Laboratory Project Number: A10144
Laboratory Sample Number: A10144-001

Order: A10144
Date: 08/23/22

Client Identification:	**AKT Peerless Environ. Svcs, Inc. - Farm. Hills**	Sample Description:	**Location A**	Chain of Custody:	**206311**
Client Project Name:	**13038F-3-20**	Sample No:		Collect Date:	**08/05/22**
Client Project No:	**13038F-3-20**	Sample Matrix:	**Soil/Solid**	Collect Time:	**12:11**

Sample Comments: **Soil results have been calculated and reported on a dry weight basis unless otherwise noted.**

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable ‡: Parameter not included in NELAC Scope of Analysis.

Water (Moisture) Content Dried at 105 ± 5°C **Aliquot ID: A10144-001** **Matrix: Soil/Solid**
Method: ASTM D2216-10 **Description: Location A**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation P. Date	Preparation P. Batch	Analysis A. Date	Analysis A. Batch	Init.
‡ 1. Percent Moisture (Water Content)	**19**		%	1	1.0	08/09/22	MC220809	08/10/22	MC220809	LJK

Michigan 10 Elements by ICP/MS **Aliquot ID: A10144-001** **Matrix: Soil/Solid**
Method: EPA 0200.2/EPA 6020A **Description: Location A**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation P. Date	Preparation P. Batch	Analysis A. Date	Analysis A. Batch	Init.
1. Arsenic	**2600**		µg/kg	100	20	08/11/22	PT22H11B	08/12/22	T422H12A	CJA
2. Barium	**13000**		µg/kg	1000	20	08/11/22	PT22H11B	08/12/22	T422H12A	CJA
3. Cadmium	U		µg/kg	50	20	08/11/22	PT22H11B	08/12/22	T422H12A	CJA
4. Chromium	**5900**		µg/kg	500	20	08/11/22	PT22H11B	08/12/22	T422H12A	CJA
5. Copper	**3600**		µg/kg	1000	20	08/11/22	PT22H11B	08/12/22	T422H12A	CJA
6. Lead	**2700**		µg/kg	1000	20	08/11/22	PT22H11B	08/12/22	T422H12A	CJA
7. Selenium	U		µg/kg	200	20	08/11/22	PT22H11B	08/12/22	T422H12A	CJA
8. Silver	U		µg/kg	100	20	08/11/22	PT22H11B	08/12/22	T422H12A	CJA
9. Zinc	**18000**		µg/kg	1000	20	08/11/22	PT22H11B	08/12/22	T422H12A	CJA

Chromium, Hexavalent **Aliquot ID: A10144-001** **Matrix: Soil/Solid**
Method: EPA 3060A/EPA 7196A **Description: Location A**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation P. Date	Preparation P. Batch	Analysis A. Date	Analysis A. Batch	Init.
1. Chromium VI	U		µg/kg	490	1.0	08/08/22	W322H08B	08/09/22	W322H08B	MJS

Mercury by CVAAS **Aliquot ID: A10144-001** **Matrix: Soil/Solid**
Method: EPA 7471B **Description: Location A**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation P. Date	Preparation P. Batch	Analysis A. Date	Analysis A. Batch	Init.
1. Mercury	U		µg/kg	50	10	08/09/22	PM22H09B	08/11/22	M722H11A	JLH

Organochlorine Pesticides **Aliquot ID: A10144-001** **Matrix: Soil/Solid**
Method: EPA 3546/EPA 8081B **Description: Location A**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation P. Date	Preparation P. Batch	Analysis A. Date	Analysis A. Batch	Init.
1. Aldrin	U		µg/kg	20	5.0	08/10/22	PS22H10B	08/11/22 09:34	SO22H11A	TKT
2. alpha-BHC	U	F-	µg/kg	20	5.0	08/10/22	PS22H10B	08/11/22 09:34	SO22H11A	TKT

1914 Holloway Drive, Holt, MI 48842, T: (517) 699-0345, F: (517) 699-0388
11766 E Grand River, Brighton, MI 48116, T: (810) 220-3300, F: (810) 220-3311
8660 S Mackinaw Trail, Cadillac, MI 49601, T: (231) 775-8368, F: (231) 775-8584
lab@fibertec.us

Fibertec environmental services

Analytical Laboratory Report
Laboratory Project Number: A10144
Laboratory Sample Number: A10144-001

Order: A10144
Date: 08/23/22

Client Identification:	**AKT Peerless Environ. Svcs, Inc. - Farm. Hills**	Sample Description:	**Location A**	Chain of Custody:	**206311**
Client Project Name:	**13038F-3-20**	Sample No:		Collect Date:	**08/05/22**
Client Project No:	**13038F-3-20**	Sample Matrix:	**Soil/Solid**	Collect Time:	**12:11**

Sample Comments: **Soil results have been calculated and reported on a dry weight basis unless otherwise noted.**

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable ‡: Parameter not included in NELAC Scope of Analysis.

Organochlorine Pesticides **Aliquot ID: A10144-001** **Matrix: Soil/Solid**
Method: EPA 3546/EPA 8081B **Description: Location A**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation P. Date	Preparation P. Batch	Analysis A. Date	Analysis A. Batch	Init.
3. beta-BHC	U	*	µg/kg	20	5.0	08/10/22	PS22H10B	08/11/22 09:34	SO22H11A	TKT
4. delta-BHC	U		µg/kg	20	5.0	08/10/22	PS22H10B	08/11/22 09:34	SO22H11A	TKT
5. gamma-BHC	U		µg/kg	20	5.0	08/10/22	PS22H10B	08/11/22 09:34	SO22H11A	TKT
6. Chlordane	U		µg/kg	25	5.0	08/10/22	PS22H10B	08/11/22 09:34	SO22H11A	TKT
7. 4,4'-DDD	U		µg/kg	20	5.0	08/10/22	PS22H10B	08/11/22 09:34	SO22H11A	TKT
8. 4,4'-DDE	U		µg/kg	20	5.0	08/10/22	PS22H10B	08/11/22 09:34	SO22H11A	TKT
9. 4,4'-DDT	U	*	µg/kg	20	5.0	08/10/22	PS22H10B	08/11/22 09:34	SO22H11A	TKT
10. Dieldrin	U	F-	µg/kg	20	5.0	08/10/22	PS22H10B	08/11/22 09:34	SO22H11A	TKT
11. Endosulfan I	U	L- F-	µg/kg	20	5.0	08/10/22	PS22H10B	08/11/22 09:34	SO22H11A	TKT
12. Endosulfan II	U	F-	µg/kg	20	5.0	08/10/22	PS22H10B	08/11/22 09:34	SO22H11A	TKT
13. Endosulfan Sulfate	U		µg/kg	20	5.0	08/10/22	PS22H10B	08/11/22 09:34	SO22H11A	TKT
14. Endrin	U		µg/kg	20	5.0	08/10/22	PS22H10B	08/11/22 09:34	SO22H11A	TKT
15. Endrin Aldehyde	U		µg/kg	20	5.0	08/10/22	PS22H10B	08/11/22 09:34	SO22H11A	TKT
16. Heptachlor	U	F-	µg/kg	20	5.0	08/10/22	PS22H10B	08/11/22 09:34	SO22H11A	TKT
17. Heptachlor Epoxide	U	F-	µg/kg	20	5.0	08/10/22	PS22H10B	08/11/22 09:34	SO22H11A	TKT
18. Methoxychlor	U	L- *	µg/kg	50	5.0	08/10/22	PS22H10B	08/11/22 09:34	SO22H11A	TKT
19. Toxaphene	U		µg/kg	170	5.0	08/10/22	PS22H10B	08/11/22 09:34	SO22H11A	TKT

Polychlorinated Biphenyls (PCBs) **Aliquot ID: A10144-001** **Matrix: Soil/Solid**
Method: EPA 3546/EPA 8082A **Description: Location A**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation P. Date	Preparation P. Batch	Analysis A. Date	Analysis A. Batch	Init.
1. Aroclor-1016	U		µg/kg	100	5.0	08/10/22	PS22H10B	08/10/22 15:56	SO22H10A	TKT
2. Aroclor-1221	U		µg/kg	100	5.0	08/10/22	PS22H10B	08/10/22 15:56	SO22H10A	TKT
3. Aroclor-1232	U		µg/kg	100	5.0	08/10/22	PS22H10B	08/10/22 15:56	SO22H10A	TKT
4. Aroclor-1242	U		µg/kg	100	5.0	08/10/22	PS22H10B	08/10/22 15:56	SO22H10A	TKT
5. Aroclor-1248	U		µg/kg	100	5.0	08/10/22	PS22H10B	08/10/22 15:56	SO22H10A	TKT
6. Aroclor-1254	U		µg/kg	100	5.0	08/10/22	PS22H10B	08/10/22 15:56	SO22H10A	TKT
7. Aroclor-1260	U		µg/kg	100	5.0	08/10/22	PS22H10B	08/10/22 15:56	SO22H10A	TKT
‡ 8. Aroclor-1262	U		µg/kg	100	5.0	08/10/22	PS22H10B	08/10/22 15:56	SO22H10A	TKT
‡ 9. Aroclor-1268	U		µg/kg	100	5.0	08/10/22	PS22H10B	08/10/22 15:56	SO22H10A	TKT

Client Identification:	**AKT Peerless Environ. Svcs, Inc. - Farm. Hills**	Sample Description:	**Location A**	Chain of Custody:	**206311**
Client Project Name:	**13038F-3-20**	Sample No:		Collect Date:	**08/05/22**
Client Project No:	**13038F-3-20**	Sample Matrix:	**Soil/Solid**	Collect Time:	**12:11**

Sample Comments: **Soil results have been calculated and reported on a dry weight basis unless otherwise noted.**

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable ‡: Parameter not included in NELAC Scope of Analysis.

Organochlorine Herbicides **Aliquot ID: A10144-001** **Matrix: Soil/Solid**
Method: EPA 8151A **Description: Location A**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation P. Date	Preparation P. Batch	Analysis A. Date	Analysis A. Batch	Init.
‡ 1. 2,4-D	U	F- *	µg/kg	200	5.0	08/09/22	PS22H09E	08/11/22 00:14	SC22H10A	TKT
‡ 2. Dalapon	U	F-	µg/kg	100	5.0	08/09/22	PS22H09E	08/11/22 00:14	SC22H10A	TKT
‡ 3. 2,4-DB	U	L+ *	µg/kg	200	5.0	08/09/22	PS22H09E	08/11/22 00:14	SC22H10A	TKT
‡ 4. Dicamba	U	F- *	µg/kg	100	5.0	08/09/22	PS22H09E	08/11/22 00:14	SC22H10A	TKT
‡ 5. Dichlorprop	U	*	µg/kg	200	5.0	08/09/22	PS22H09E	08/11/22 00:14	SC22H10A	TKT
‡ 6. Dinoseb	U	V+ L+ *	µg/kg	100	5.0	08/09/22	PS22H09E	08/11/22 00:14	SC22H10A	TKT
‡ 7. 2,4,5-T	U	F- *	µg/kg	200	5.0	08/09/22	PS22H09E	08/11/22 00:14	SC22H10A	TKT
‡ 8. 2,4,5-TP	U	*	µg/kg	200	5.0	08/09/22	PS22H09E	08/11/22 00:14	SC22H10A	TKT

Volatile Organic Compounds (VOCs) by GC/MS, 5035 **Aliquot ID: A10144-001A** **Matrix: Soil/Solid**
Method: EPA 5035A/EPA 8260D **Description: Location A**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation P. Date	Preparation P. Batch	Analysis A. Date	Analysis A. Batch	Init.
1. Acetone	U		µg/kg	1000	1.0	08/09/22	VJ22H09A	08/09/22 20:44	VJ22H09A	BRC
‡ 2. Acrylonitrile	U		µg/kg	100	1.0	08/09/22	VJ22H09A	08/09/22 20:44	VJ22H09A	BRC
3. Benzene	U		µg/kg	50	1.0	08/09/22	VJ22H09A	08/09/22 20:44	VJ22H09A	BRC
4. Bromobenzene	U		µg/kg	100	1.0	08/09/22	VJ22H09A	08/09/22 20:44	VJ22H09A	BRC
5. Bromochloromethane	U		µg/kg	100	1.0	08/09/22	VJ22H09A	08/09/22 20:44	VJ22H09A	BRC
6. Bromodichloromethane	U		µg/kg	100	1.0	08/09/22	VJ22H09A	08/09/22 20:44	VJ22H09A	BRC
7. Bromoform	U		µg/kg	100	1.0	08/09/22	VJ22H09A	08/09/22 20:44	VJ22H09A	BRC
8. Bromomethane	U		µg/kg	200	1.0	08/09/22	VJ22H09A	08/09/22 20:44	VJ22H09A	BRC
9. 2-Butanone	U		µg/kg	750	1.0	08/09/22	VJ22H09A	08/09/22 20:44	VJ22H09A	BRC
10. n-Butylbenzene	U		µg/kg	50	1.0	08/09/22	VJ22H09A	08/09/22 20:44	VJ22H09A	BRC
11. sec-Butylbenzene	U		µg/kg	50	1.0	08/09/22	VJ22H09A	08/09/22 20:44	VJ22H09A	BRC
12. tert-Butylbenzene	U		µg/kg	50	1.0	08/09/22	VJ22H09A	08/09/22 20:44	VJ22H09A	BRC
13. Carbon Disulfide	U		µg/kg	250	1.0	08/09/22	VJ22H09A	08/09/22 20:44	VJ22H09A	BRC
14. Carbon Tetrachloride	U		µg/kg	50	1.0	08/09/22	VJ22H09A	08/09/22 20:44	VJ22H09A	BRC
15. Chlorobenzene	U		µg/kg	50	1.0	08/09/22	VJ22H09A	08/09/22 20:44	VJ22H09A	BRC
16. Chloroethane	U		µg/kg	250	1.0	08/09/22	VJ22H09A	08/09/22 20:44	VJ22H09A	BRC
17. Chloroform	U		µg/kg	50	1.0	08/09/22	VJ22H09A	08/09/22 20:44	VJ22H09A	BRC
18. Chloromethane	U		µg/kg	250	1.0	08/09/22	VJ22H09A	08/09/22 20:44	VJ22H09A	BRC
19. 2-Chlorotoluene	U		µg/kg	50	1.0	08/09/22	VJ22H09A	08/09/22 20:44	VJ22H09A	BRC

Client Identification:	**AKT Peerless Environ. Svcs, Inc. - Farm. Hills**	Sample Description:	**Location A**	Chain of Custody:	**206311**
Client Project Name:	**13038F-3-20**	Sample No:		Collect Date:	**08/05/22**
Client Project No:	**13038F-3-20**	Sample Matrix:	**Soil/Solid**	Collect Time:	**12:11**

Sample Comments: **Soil results have been calculated and reported on a dry weight basis unless otherwise noted.**

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable ‡: Parameter not included in NELAC Scope of Analysis.

Volatile Organic Compounds (VOCs) by GC/MS, 5035 **Aliquot ID: A10144-001A** **Matrix: Soil/Solid**
Method: EPA 5035A/EPA 8260D **Description: Location A**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation P. Date	Preparation P. Batch	Analysis A. Date	Analysis A. Batch	Init.
‡ 20. 1,2-Dibromo-3-chloropropane (SIM)	U		µg/kg	250	1.0	08/09/22	VJ22H09A	08/09/22 20:44	VJ22H09A	BRC
21. Dibromochloromethane	U		µg/kg	100	1.0	08/09/22	VJ22H09A	08/09/22 20:44	VJ22H09A	BRC
22. Dibromomethane	U		µg/kg	250	1.0	08/09/22	VJ22H09A	08/09/22 20:44	VJ22H09A	BRC
23. 1,2-Dichlorobenzene	U		µg/kg	100	1.0	08/09/22	VJ22H09A	08/09/22 20:44	VJ22H09A	BRC
24. 1,3-Dichlorobenzene	U		µg/kg	100	1.0	08/09/22	VJ22H09A	08/09/22 20:44	VJ22H09A	BRC
25. 1,4-Dichlorobenzene	U		µg/kg	100	1.0	08/09/22	VJ22H09A	08/09/22 20:44	VJ22H09A	BRC
26. Dichlorodifluoromethane	U		µg/kg	250	1.0	08/09/22	VJ22H09A	08/09/22 20:44	VJ22H09A	BRC
27. 1,1-Dichloroethane	U		µg/kg	50	1.0	08/09/22	VJ22H09A	08/09/22 20:44	VJ22H09A	BRC
28. 1,2-Dichloroethane	U		µg/kg	50	1.0	08/09/22	VJ22H09A	08/09/22 20:44	VJ22H09A	BRC
29. 1,1-Dichloroethene	U		µg/kg	50	1.0	08/09/22	VJ22H09A	08/09/22 20:44	VJ22H09A	BRC
30. cis-1,2-Dichloroethene	U		µg/kg	50	1.0	08/09/22	VJ22H09A	08/09/22 20:44	VJ22H09A	BRC
31. trans-1,2-Dichloroethene	U		µg/kg	50	1.0	08/09/22	VJ22H09A	08/09/22 20:44	VJ22H09A	BRC
32. 1,2-Dichloropropane	U		µg/kg	50	1.0	08/09/22	VJ22H09A	08/09/22 20:44	VJ22H09A	BRC
33. cis-1,3-Dichloropropene	U		µg/kg	50	1.0	08/09/22	VJ22H09A	08/09/22 20:44	VJ22H09A	BRC
34. trans-1,3-Dichloropropene	U		µg/kg	50	1.0	08/09/22	VJ22H09A	08/09/22 20:44	VJ22H09A	BRC
35. Ethylbenzene	U		µg/kg	50	1.0	08/09/22	VJ22H09A	08/09/22 20:44	VJ22H09A	BRC
36. Ethylene Dibromide	U		µg/kg	50	1.0	08/09/22	VJ22H09A	08/09/22 20:44	VJ22H09A	BRC
37. 2-Hexanone	U		µg/kg	2500	1.0	08/09/22	VJ22H09A	08/09/22 20:44	VJ22H09A	BRC
38. Isopropylbenzene	U		µg/kg	250	1.0	08/09/22	VJ22H09A	08/09/22 20:44	VJ22H09A	BRC
39. 4-Methyl-2-pentanone	U		µg/kg	2500	1.0	08/09/22	VJ22H09A	08/09/22 20:44	VJ22H09A	BRC
40. Methylene Chloride	U		µg/kg	100	1.0	08/09/22	VJ22H09A	08/09/22 20:44	VJ22H09A	BRC
‡ 41. 2-Methylnaphthalene	U		µg/kg	330	1.0	08/09/22	VJ22H09A	08/09/22 20:44	VJ22H09A	BRC
42. MTBE	U		µg/kg	250	1.0	08/09/22	VJ22H09A	08/09/22 20:44	VJ22H09A	BRC
43. Naphthalene	U		µg/kg	330	1.0	08/09/22	VJ22H09A	08/09/22 20:44	VJ22H09A	BRC
44. n-Propylbenzene	U		µg/kg	100	1.0	08/09/22	VJ22H09A	08/09/22 20:44	VJ22H09A	BRC
45. Styrene	U		µg/kg	50	1.0	08/09/22	VJ22H09A	08/09/22 20:44	VJ22H09A	BRC
46. 1,1,1,2-Tetrachloroethane	U		µg/kg	100	1.0	08/09/22	VJ22H09A	08/09/22 20:44	VJ22H09A	BRC
47. 1,1,2,2-Tetrachloroethane	U		µg/kg	50	1.0	08/09/22	VJ22H09A	08/09/22 20:44	VJ22H09A	BRC
48. Tetrachloroethene	U		µg/kg	50	1.0	08/09/22	VJ22H09A	08/09/22 20:44	VJ22H09A	BRC
49. Toluene	U		µg/kg	50	1.0	08/09/22	VJ22H09A	08/09/22 20:44	VJ22H09A	BRC
50. 1,2,4-Trichlorobenzene	U		µg/kg	250	1.0	08/09/22	VJ22H09A	08/09/22 20:44	VJ22H09A	BRC
51. 1,1,1-Trichloroethane	U		µg/kg	50	1.0	08/09/22	VJ22H09A	08/09/22 20:44	VJ22H09A	BRC
52. 1,1,2-Trichloroethane	U		µg/kg	50	1.0	08/09/22	VJ22H09A	08/09/22 20:44	VJ22H09A	BRC
53. Trichloroethene	U		µg/kg	50	1.0	08/09/22	VJ22H09A	08/09/22 20:44	VJ22H09A	BRC
54. Trichlorofluoromethane	U		µg/kg	100	1.0	08/09/22	VJ22H09A	08/09/22 20:44	VJ22H09A	BRC
55. 1,2,3-Trichloropropane	U		µg/kg	100	1.0	08/09/22	VJ22H09A	08/09/22 20:44	VJ22H09A	BRC
‡ 56. 1,2,3-Trimethylbenzene	U		µg/kg	100	1.0	08/09/22	VJ22H09A	08/09/22 20:44	VJ22H09A	BRC

Client Identification:	**AKT Peerless Environ. Svcs, Inc. - Farm. Hills**	Sample Description:	**Location A**	Chain of Custody:	**206311**
Client Project Name:	**13038F-3-20**	Sample No:		Collect Date:	**08/05/22**
Client Project No:	**13038F-3-20**	Sample Matrix:	**Soil/Solid**	Collect Time:	**12:11**

Sample Comments: **Soil results have been calculated and reported on a dry weight basis unless otherwise noted.**

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable ‡: Parameter not included in NELAC Scope of Analysis.

Volatile Organic Compounds (VOCs) by GC/MS, 5035 **Aliquot ID: A10144-001A** **Matrix: Soil/Solid**
Method: EPA 5035A/EPA 8260D **Description: Location A**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation P. Date	Preparation P. Batch	Analysis A. Date	Analysis A. Batch	Init.
57. 1,2,4-Trimethylbenzene	U		µg/kg	100	1.0	08/09/22	VJ22H09A	08/09/22 20:44	VJ22H09A	BRC
58. 1,3,5-Trimethylbenzene	U		µg/kg	100	1.0	08/09/22	VJ22H09A	08/09/22 20:44	VJ22H09A	BRC
59. Vinyl Chloride	U		µg/kg	40	1.0	08/09/22	VJ22H09A	08/09/22 20:44	VJ22H09A	BRC
60. m&p-Xylene	U		µg/kg	100	1.0	08/09/22	VJ22H09A	08/09/22 20:44	VJ22H09A	BRC
61. o-Xylene	U		µg/kg	50	1.0	08/09/22	VJ22H09A	08/09/22 20:44	VJ22H09A	BRC
‡ 62. Xylenes	U		µg/kg	150	1.0	08/09/22	VJ22H09A	08/09/22 20:44	VJ22H09A	BRC

Base/Neutral/Acid Semivolatiles by GC/MS **Aliquot ID: A10144-001** **Matrix: Soil/Solid**
Method: EPA 3550C/EPA 8270E **Description: Location A**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation P. Date	Preparation P. Batch	Analysis A. Date	Analysis A. Batch	Init.
1. Acenaphthene	U		µg/kg	330	5.0	08/16/22	PS22H10K	08/17/22 05:14	S622H16B	ALS
2. Acenaphthylene	U		µg/kg	330	5.0	08/16/22	PS22H10K	08/17/22 05:14	S622H16B	ALS
3. Aniline	U	Y1	µg/kg	1000	5.0	08/16/22	PS22H10K	08/17/22 05:14	S622H16B	ALS
4. Anthracene	U		µg/kg	330	5.0	08/16/22	PS22H10K	08/17/22 05:14	S622H16B	ALS
‡ 5. Azobenzene	U		µg/kg	330	5.0	08/16/22	PS22H10K	08/17/22 05:14	S622H16B	ALS
6. Benzo(a)anthracene	U		µg/kg	330	5.0	08/16/22	PS22H10K	08/17/22 05:14	S622H16B	ALS
7. Benzo(a)pyrene	U		µg/kg	330	5.0	08/16/22	PS22H10K	08/17/22 05:14	S622H16B	ALS
8. Benzo(b)fluoranthene	U		µg/kg	330	5.0	08/16/22	PS22H10K	08/17/22 05:14	S622H16B	ALS
9. Benzo(ghi)perylene	U		µg/kg	330	5.0	08/16/22	PS22H10K	08/17/22 05:14	S622H16B	ALS
10. Benzo(k)fluoranthene	U		µg/kg	330	5.0	08/16/22	PS22H10K	08/17/22 05:14	S622H16B	ALS
11. Benzyl Alcohol	U		µg/kg	3300	5.0	08/16/22	PS22H10K	08/17/22 05:14	S622H16B	ALS
12. Bis(2-chloroethoxy)methane	U		µg/kg	330	5.0	08/16/22	PS22H10K	08/17/22 05:14	S622H16B	ALS
13. Bis(2-chloroethyl)ether	U		µg/kg	200	5.0	08/16/22	PS22H10K	08/17/22 05:14	S622H16B	ALS
14. Bis(2-ethylhexyl)phthalate	U		µg/kg	330	5.0	08/16/22	PS22H10K	08/17/22 05:14	S622H16B	ALS
15. 4-Bromophenyl Phenylether	U		µg/kg	330	5.0	08/16/22	PS22H10K	08/17/22 05:14	S622H16B	ALS
16. Butyl Benzyl Phthalate	U	Y1	µg/kg	1000	5.0	08/16/22	PS22H10K	08/17/22 05:14	S622H16B	ALS
17. Di-n-butyl Phthalate	U		µg/kg	330	5.0	08/16/22	PS22H10K	08/17/22 05:14	S622H16B	ALS
‡ 18. Carbazole	U		µg/kg	330	5.0	08/16/22	PS22H10K	08/17/22 05:14	S622H16B	ALS
19. 4-Chloro-3-methylphenol	U	Y1	µg/kg	1000	5.0	08/16/22	PS22H10K	08/17/22 05:14	S622H16B	ALS
20. 2-Chloronaphthalene	U		µg/kg	330	5.0	08/16/22	PS22H10K	08/17/22 05:14	S622H16B	ALS
21. 2-Chlorophenol	U		µg/kg	330	5.0	08/16/22	PS22H10K	08/17/22 05:14	S622H16B	ALS
22. 4-Chlorophenyl Phenylether	U		µg/kg	330	5.0	08/16/22	PS22H10K	08/17/22 05:14	S622H16B	ALS
23. Chrysene	U		µg/kg	330	5.0	08/16/22	PS22H10K	08/17/22 05:14	S622H16B	ALS
24. Dibenzo(a,h)anthracene	U		µg/kg	330	5.0	08/16/22	PS22H10K	08/17/22 05:14	S622H16B	ALS
25. Dibenzofuran	U		µg/kg	330	5.0	08/16/22	PS22H10K	08/17/22 05:14	S622H16B	ALS

Client Identification:	**AKT Peerless Environ. Svcs, Inc. - Farm. Hills**	Sample Description:	**Location A**	Chain of Custody:	**206311**
Client Project Name:	**13038F-3-20**	Sample No:		Collect Date:	**08/05/22**
Client Project No:	**13038F-3-20**	Sample Matrix:	**Soil/Solid**	Collect Time:	**12:11**

Sample Comments: **Soil results have been calculated and reported on a dry weight basis unless otherwise noted.**

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable ‡: Parameter not included in NELAC Scope of Analysis.

Base/Neutral/Acid Semivolatiles by GC/MS **Aliquot ID: A10144-001** **Matrix: Soil/Solid**
Method: EPA 3550C/EPA 8270E **Description: Location A**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation P. Date	Preparation P. Batch	Analysis A. Date	Analysis A. Batch	Init.
26. 2,4-Dichlorophenol	U		µg/kg	330	5.0	08/16/22	PS22H10K	08/17/22 05:14	S622H16B	ALS
27. Diethyl Phthalate	U		µg/kg	330	5.0	08/16/22	PS22H10K	08/17/22 05:14	S622H16B	ALS
28. 2,4-Dimethylphenol	U		µg/kg	330	5.0	08/16/22	PS22H10K	08/17/22 05:14	S622H16B	ALS
29. Dimethyl Phthalate	U		µg/kg	330	5.0	08/16/22	PS22H10K	08/17/22 05:14	S622H16B	ALS
30. 2,4-Dinitrophenol	U	Y1	µg/kg	4100	5.0	08/16/22	PS22H10K	08/17/22 05:14	S622H16B	ALS
‡ 31. 2,4-Dinitrotoluene	U		µg/kg	330	5.0	08/16/22	PS22H10K	08/17/22 05:14	S622H16B	ALS
‡ 32. 2,6-Dinitrotoluene	U		µg/kg	330	5.0	08/16/22	PS22H10K	08/17/22 05:14	S622H16B	ALS
33. Fluoranthene	U		µg/kg	330	5.0	08/16/22	PS22H10K	08/17/22 05:14	S622H16B	ALS
34. Fluorene	U		µg/kg	330	5.0	08/16/22	PS22H10K	08/17/22 05:14	S622H16B	ALS
35. Hexachlorobenzene	U		µg/kg	330	5.0	08/16/22	PS22H10K	08/17/22 05:14	S622H16B	ALS
36. Hexachlorobutadiene	U		µg/kg	330	5.0	08/16/22	PS22H10K	08/17/22 05:14	S622H16B	ALS
37. Hexachlorocyclopentadiene	U	F-Y1	µg/kg	1000	5.0	08/16/22	PS22H10K	08/17/22 05:14	S622H16B	ALS
38. Hexachloroethane	U		µg/kg	330	5.0	08/16/22	PS22H10K	08/17/22 05:14	S622H16B	ALS
39. Indeno(1,2,3-cd)pyrene	U		µg/kg	330	5.0	08/16/22	PS22H10K	08/17/22 05:14	S622H16B	ALS
‡ 40. Isophorone	U	L+F+	µg/kg	330	5.0	08/16/22	PS22H10K	08/17/22 05:14	S622H16B	ALS
41. 2-Methyl-4,6-dinitrophenol	U	F-	µg/kg	1000	5.0	08/16/22	PS22H10K	08/17/22 05:14	S622H16B	ALS
42. 2-Methylnaphthalene	U		µg/kg	330	5.0	08/16/22	PS22H10K	08/17/22 05:14	S622H16B	ALS
43. 2-Methylphenol	U		µg/kg	330	5.0	08/16/22	PS22H10K	08/17/22 05:14	S622H16B	ALS
‡ 44. 3&4-Methylphenol	U		µg/kg	660	5.0	08/16/22	PS22H10K	08/17/22 05:14	S622H16B	ALS
45. Naphthalene	U		µg/kg	330	5.0	08/16/22	PS22H10K	08/17/22 05:14	S622H16B	ALS
46. 2-Nitroaniline	U		µg/kg	330	5.0	08/16/22	PS22H10K	08/17/22 05:14	S622H16B	ALS
47. 3-Nitroaniline	U		µg/kg	830	5.0	08/16/22	PS22H10K	08/17/22 05:14	S622H16B	ALS
48. 4-Nitroaniline	U		µg/kg	830	5.0	08/16/22	PS22H10K	08/17/22 05:14	S622H16B	ALS
49. Nitrobenzene	U		µg/kg	330	5.0	08/16/22	PS22H10K	08/17/22 05:14	S622H16B	ALS
50. 2-Nitrophenol	U		µg/kg	330	5.0	08/16/22	PS22H10K	08/17/22 05:14	S622H16B	ALS
51. 4-Nitrophenol	U	L-Y1	µg/kg	4100	5.0	08/16/22	PS22H10K	08/17/22 05:14	S622H16B	ALS
52. N-Nitrosodimethylamine	U		µg/kg	330	5.0	08/16/22	PS22H10K	08/17/22 05:14	S622H16B	ALS
53. N-Nitrosodi-n-propylamine	U		µg/kg	330	5.0	08/16/22	PS22H10K	08/17/22 05:14	S622H16B	ALS
54. N-Nitrosodiphenylamine	U		µg/kg	330	5.0	08/16/22	PS22H10K	08/17/22 05:14	S622H16B	ALS
55. Di-n-octyl Phthalate	U		µg/kg	330	5.0	08/16/22	PS22H10K	08/17/22 05:14	S622H16B	ALS
56. 2,2'-Oxybis(1-chloropropane)	U		µg/kg	330	5.0	08/16/22	PS22H10K	08/17/22 05:14	S622H16B	ALS
57. Pentachlorophenol	U	L-F-Y1	µg/kg	4100	5.0	08/16/22	PS22H10K	08/17/22 05:14	S622H16B	ALS
58. Phenanthrene	U		µg/kg	330	5.0	08/16/22	PS22H10K	08/17/22 05:14	S622H16B	ALS

Client Identification:	**AKT Peerless Environ. Svcs, Inc. - Farm. Hills**	Sample Description:	**Location A**	Chain of Custody:	**206311**
Client Project Name:	**13038F-3-20**	Sample No:		Collect Date:	**08/05/22**
Client Project No:	**13038F-3-20**	Sample Matrix:	**Soil/Solid**	Collect Time:	**12:11**

Sample Comments: **Soil results have been calculated and reported on a dry weight basis unless otherwise noted.**

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable ‡: Parameter not included in NELAC Scope of Analysis.

Base/Neutral/Acid Semivolatiles by GC/MS **Aliquot ID: A10144-001** **Matrix: Soil/Solid**
Method: EPA 3550C/EPA 8270E **Description: Location A**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation P. Date	Preparation P. Batch	Analysis A. Date	Analysis A. Batch	Init.
59. Phenol	U		µg/kg	330	5.0	08/16/22	PS22H10K	08/17/22 05:14	S622H16B	ALS
60. Pyrene	U		µg/kg	330	5.0	08/16/22	PS22H10K	08/17/22 05:14	S622H16B	ALS
61. Pyridine	U		µg/kg	330	5.0	08/16/22	PS22H10K	08/17/22 05:14	S622H16B	ALS
‡ 62. 1,2,4-Trichlorobenzene	U		µg/kg	330	5.0	08/16/22	PS22H10K	08/17/22 05:14	S622H16B	ALS
63. 2,4,5-Trichlorophenol	U		µg/kg	330	5.0	08/16/22	PS22H10K	08/17/22 05:14	S622H16B	ALS
64. 2,4,6-Trichlorophenol	U		µg/kg	330	5.0	08/16/22	PS22H10K	08/17/22 05:14	S622H16B	ALS

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Analytical Laboratory Report
Laboratory Project Number: A10144
Laboratory Sample Number: A10144-002

Order: A10144
Date: 08/23/22

Client Identification:	**AKT Peerless Environ. Svcs, Inc. - Farm. Hills**	Sample Description:	**Loaction A**	Chain of Custody:	**206311**
Client Project Name:	**13038F-3-20**	Sample No:		Collect Date:	**08/05/22**
Client Project No:	**13038F-3-20**	Sample Matrix:	**Surface Water**	Collect Time:	**11:57**

Sample Comments:

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable ‡: Parameter not included in NELAC Scope of Analysis.

Michigan 10 Elements by ICP/MS, Dissolved **Aliquot ID: A10144-002C** **Matrix: Surface Water**
Method: EPA 0200.8 (Dissolved)/EPA 0200.8 **Description: Loaction A**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation P. Date	Preparation P. Batch	Analysis A. Date	Analysis A. Batch	Init.
1. Arsenic	U		mg/L	0.0050	10	08/09/22	PT22H09B	08/09/22	T422H09B	CJA
2. Barium	U		mg/L	0.10	10	08/09/22	PT22H09B	08/09/22	T422H09B	CJA
3. Cadmium	U		mg/L	0.0010	10	08/09/22	PT22H09B	08/09/22	T422H09B	CJA
4. Chromium	U		mg/L	0.010	10	08/09/22	PT22H09B	08/09/22	T422H09B	CJA
5. Copper	U		mg/L	0.0040	10	08/09/22	PT22H09B	08/09/22	T422H09B	CJA
6. Lead	U		mg/L	0.0030	10	08/09/22	PT22H09B	08/09/22	T422H09B	CJA
7. Selenium	U		mg/L	0.0050	10	08/09/22	PT22H09B	08/09/22	T422H09B	CJA
8. Silver	U		mg/L	0.00020	10	08/09/22	PT22H09B	08/09/22	T422H09B	CJA
9. Zinc	U		mg/L	0.050	10	08/09/22	PT22H09B	08/09/22	T422H09B	CJA

Mercury by CVAAS, Dissolved **Aliquot ID: A10144-002C** **Matrix: Surface Water**
Method: EPA 0245.1 **Description: Loaction A**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation P. Date	Preparation P. Batch	Analysis A. Date	Analysis A. Batch	Init.
1. Mercury	U		mg/L	0.00020	1.0	08/10/22	PM22H10B	08/10/22	M722H10A	JLH

Polychlorinated Biphenyls (PCBs) **Aliquot ID: A10144-002** **Matrix: Surface Water**
Method: EPA 0608.3 **Description: Loaction A**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation P. Date	Preparation P. Batch	Analysis A. Date	Analysis A. Batch	Init.
1. Aroclor-1016	U		mg/L	0.000200	1.0	08/09/22	PS22H09G	08/10/22 14:23	SO22H10A	TKT
2. Aroclor-1221	U		mg/L	0.000200	1.0	08/09/22	PS22H09G	08/10/22 14:23	SO22H10A	TKT
3. Aroclor-1232	U		mg/L	0.000200	1.0	08/09/22	PS22H09G	08/10/22 14:23	SO22H10A	TKT
4. Aroclor-1242	U		mg/L	0.000200	1.0	08/09/22	PS22H09G	08/10/22 14:23	SO22H10A	TKT
5. Aroclor-1248	U		mg/L	0.000200	1.0	08/09/22	PS22H09G	08/10/22 14:23	SO22H10A	TKT
6. Aroclor-1254	U		mg/L	0.000200	1.0	08/09/22	PS22H09G	08/10/22 14:23	SO22H10A	TKT
7. Aroclor-1260	U		mg/L	0.000200	1.0	08/09/22	PS22H09G	08/10/22 14:23	SO22H10A	TKT
‡ 8. Aroclor-1262	U		mg/L	0.000200	1.0	08/09/22	PS22H09G	08/10/22 14:23	SO22H10A	TKT
‡ 9. Aroclor-1268	U		mg/L	0.000200	1.0	08/09/22	PS22H09G	08/10/22 14:23	SO22H10A	TKT

Organochlorine Pesticides **Aliquot ID: A10144-002** **Matrix: Surface Water**
Method: EPA 0608.3 **Description: Loaction A**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation P. Date	Preparation P. Batch	Analysis A. Date	Analysis A. Batch	Init.
1. Aldrin	U		mg/L	0.0000100	1.0	08/09/22	PS22H09G	08/09/22 18:01	SO22H09C	TKT

Client Identification:	**AKT Peerless Environ. Svcs, Inc. - Farm. Hills**	Sample Description:	**Loaction A**	Chain of Custody:	**206311**
Client Project Name:	**13038F-3-20**	Sample No:		Collect Date:	**08/05/22**
Client Project No:	**13038F-3-20**	Sample Matrix:	**Surface Water**	Collect Time:	**11:57**

Sample Comments:

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable ‡: Parameter not included in NELAC Scope of Analysis.

Organochlorine Pesticides **Aliquot ID: A10144-002** **Matrix: Surface Water**
Method: EPA 0608.3 **Description: Loaction A**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation P. Date	Preparation P. Batch	Analysis A. Date	Analysis A. Batch	Init.
2. alpha-BHC	U		mg/L	0.0000100	1.0	08/09/22	PS22H09G	08/09/22 18:01	SO22H09C	TKT
3. beta-BHC	U	L+	mg/L	0.0000100	1.0	08/09/22	PS22H09G	08/09/22 18:01	SO22H09C	TKT
4. delta-BHC	U	L+	mg/L	0.0000100	1.0	08/09/22	PS22H09G	08/09/22 18:01	SO22H09C	TKT
5. gamma-BHC	U		mg/L	0.0000100	1.0	08/09/22	PS22H09G	08/09/22 18:01	SO22H09C	TKT
6. Chlordane	U		mg/L	0.0000500	1.0	08/09/22	PS22H09G	08/09/22 18:01	SO22H09C	TKT
7. 4,4'-DDD	U		mg/L	0.0000200	1.0	08/09/22	PS22H09G	08/09/22 18:01	SO22H09C	TKT
8. 4,4'-DDE	U		mg/L	0.0000200	1.0	08/09/22	PS22H09G	08/09/22 18:01	SO22H09C	TKT
9. 4,4'-DDT	U	L+	mg/L	0.0000200	1.0	08/09/22	PS22H09G	08/09/22 18:01	SO22H09C	TKT
10. Dieldrin	U		mg/L	0.0000200	1.0	08/09/22	PS22H09G	08/09/22 18:01	SO22H09C	TKT
11. Endosulfan I	U		mg/L	0.000500	1.0	08/09/22	PS22H09G	08/09/22 18:01	SO22H09C	TKT
12. Endosulfan II	U		mg/L	0.0000200	1.0	08/09/22	PS22H09G	08/09/22 18:01	SO22H09C	TKT
13. Endosulfan Sulfate	U		mg/L	0.0000500	1.0	08/09/22	PS22H09G	08/09/22 18:01	SO22H09C	TKT
14. Endrin	U		mg/L	0.0000200	1.0	08/09/22	PS22H09G	08/09/22 18:01	SO22H09C	TKT
15. Endrin Aldehyde	U		mg/L	0.0000200	1.0	08/09/22	PS22H09G	08/09/22 18:01	SO22H09C	TKT
16. Heptachlor	U		mg/L	0.0000100	1.0	08/09/22	PS22H09G	08/09/22 18:01	SO22H09C	TKT
17. Heptachlor Epoxide	U		mg/L	0.0000100	1.0	08/09/22	PS22H09G	08/09/22 18:01	SO22H09C	TKT
18. Methoxychlor	U	L+	mg/L	0.000500	1.0	08/09/22	PS22H09G	08/09/22 18:01	SO22H09C	TKT
19. Toxaphene	U		mg/L	0.00100	1.0	08/09/22	PS22H09G	08/09/22 18:01	SO22H09C	TKT

Organochlorine Herbicides **Aliquot ID: A10144-002** **Matrix: Surface Water**
Method: EPA 0615 **Description: Loaction A**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation P. Date	Preparation P. Batch	Analysis A. Date	Analysis A. Batch	Init.
‡ 1. 2,4-D	U		µg/L	10	5.0	08/09/22	PS22H09H	08/10/22 18:45	SC22H10A	TKT
‡ 2. Dalapon	U	V+	µg/L	10	5.0	08/09/22	PS22H09H	08/10/22 18:45	SC22H10A	TKT
‡ 3. 2,4-DB	U		µg/L	10	5.0	08/09/22	PS22H09H	08/10/22 18:45	SC22H10A	TKT
‡ 4. Dicamba	U		µg/L	1.0	5.0	08/09/22	PS22H09H	08/10/22 18:45	SC22H10A	TKT
‡ 5. Dichlorprop	U		µg/L	10	5.0	08/09/22	PS22H09H	08/10/22 18:45	SC22H10A	TKT
‡ 6. Dinoseb	U	V+	µg/L	5.0	5.0	08/09/22	PS22H09H	08/10/22 18:45	SC22H10A	TKT
‡ 7. 2,4,5-T	U		µg/L	1.0	5.0	08/09/22	PS22H09H	08/10/22 18:45	SC22H10A	TKT
‡ 8. 2,4,5-TP	U		µg/L	1.0	5.0	08/09/22	PS22H09H	08/10/22 18:45	SC22H10A	TKT

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Analytical Laboratory Report
Laboratory Project Number: A10144
Laboratory Sample Number: A10144-002

Order: A10144
Date: 08/23/22

Client Identification:	**AKT Peerless Environ. Svcs, Inc. - Farm. Hills**	Sample Description:	**Loaction A**	Chain of Custody:	**206311**
Client Project Name:	**13038F-3-20**	Sample No:		Collect Date:	**08/05/22**
Client Project No:	**13038F-3-20**	Sample Matrix:	**Surface Water**	Collect Time:	**11:57**

Sample Comments:

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable ‡: Parameter not included in NELAC Scope of Analysis.

Volatile Organic Compounds (VOCs) by GC/MS **Aliquot ID: A10144-002B** **Matrix: Surface Water**
Method: EPA 0624.1 **Description: Loaction A**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation P. Date	Preparation P. Batch	Analysis A. Date	Analysis A. Batch	Init.
1. Acetone	U		mg/L	0.0500	1.0	08/12/22	VM22H12A	08/12/22 18:53	VM22H12A	SNC
2. Acrylonitrile	U		mg/L	0.00200	1.0	08/12/22	VM22H12A	08/12/22 18:53	VM22H12A	SNC
3. Benzene	U		mg/L	0.00100	1.0	08/12/22	VM22H12A	08/12/22 18:53	VM22H12A	SNC
‡ 4. Bromobenzene	U		mg/L	0.00100	1.0	08/12/22	VM22H12A	08/12/22 18:53	VM22H12A	SNC
‡ 5. Bromochloromethane	U		mg/L	0.00100	1.0	08/12/22	VM22H12A	08/12/22 18:53	VM22H12A	SNC
6. Bromodichloromethane	U		mg/L	0.00100	1.0	08/12/22	VM22H12A	08/12/22 18:53	VM22H12A	SNC
7. Bromoform	U		mg/L	0.00100	1.0	08/12/22	VM22H12A	08/12/22 18:53	VM22H12A	SNC
8. Bromomethane	U		mg/L	0.00500	1.0	08/12/22	VM22H12A	08/12/22 18:53	VM22H12A	SNC
9. 2-Butanone	U		mg/L	0.0250	1.0	08/12/22	VM22H12A	08/12/22 18:53	VM22H12A	SNC
‡ 10. n-Butylbenzene	U		mg/L	0.00100	1.0	08/12/22	VM22H12A	08/12/22 18:53	VM22H12A	SNC
‡ 11. sec-Butylbenzene	U		mg/L	0.00100	1.0	08/12/22	VM22H12A	08/12/22 18:53	VM22H12A	SNC
‡ 12. tert-Butylbenzene	U		mg/L	0.00100	1.0	08/12/22	VM22H12A	08/12/22 18:53	VM22H12A	SNC
‡ 13. Carbon Disulfide	U		mg/L	0.00500	1.0	08/12/22	VM22H12A	08/12/22 18:53	VM22H12A	SNC
14. Carbon Tetrachloride	U	V+	mg/L	0.00100	1.0	08/12/22	VM22H12A	08/12/22 18:53	VM22H12A	SNC
15. Chlorobenzene	U		mg/L	0.00100	1.0	08/12/22	VM22H12A	08/12/22 18:53	VM22H12A	SNC
16. Chloroethane	U		mg/L	0.00500	1.0	08/12/22	VM22H12A	08/12/22 18:53	VM22H12A	SNC
17. Chloroform	U		mg/L	0.00100	1.0	08/12/22	VM22H12A	08/12/22 18:53	VM22H12A	SNC
18. Chloromethane	U		mg/L	0.00500	1.0	08/12/22	VM22H12A	08/12/22 18:53	VM22H12A	SNC
‡ 19. 2-Chlorotoluene	U		mg/L	0.00500	1.0	08/12/22	VM22H12A	08/12/22 18:53	VM22H12A	SNC
‡ 20. 1,2-Dibromo-3-chloropropane (SIM)	U		mg/L	0.00100	1.0	08/12/22	VM22H12A	08/12/22 18:53	VM22H12A	SNC
21. Dibromochloromethane	U	V+	mg/L	0.00500	1.0	08/12/22	VM22H12A	08/12/22 18:53	VM22H12A	SNC
‡ 22. Dibromomethane	U		mg/L	0.00500	1.0	08/12/22	VM22H12A	08/12/22 18:53	VM22H12A	SNC
23. 1,2-Dichlorobenzene	U		mg/L	0.00100	1.0	08/12/22	VM22H12A	08/12/22 18:53	VM22H12A	SNC
24. 1,3-Dichlorobenzene	U		mg/L	0.00100	1.0	08/12/22	VM22H12A	08/12/22 18:53	VM22H12A	SNC
25. 1,4-Dichlorobenzene	U		mg/L	0.00100	1.0	08/12/22	VM22H12A	08/12/22 18:53	VM22H12A	SNC
‡ 26. Dichlorodifluoromethane	U		mg/L	0.00500	1.0	08/12/22	VM22H12A	08/12/22 18:53	VM22H12A	SNC
27. 1,1-Dichloroethane	U		mg/L	0.00100	1.0	08/12/22	VM22H12A	08/12/22 18:53	VM22H12A	SNC
28. 1,2-Dichloroethane	U		mg/L	0.00100	1.0	08/12/22	VM22H12A	08/12/22 18:53	VM22H12A	SNC
29. 1,1-Dichloroethene	U		mg/L	0.00100	1.0	08/12/22	VM22H12A	08/12/22 18:53	VM22H12A	SNC
30. cis-1,2-Dichloroethene	U		mg/L	0.00100	1.0	08/12/22	VM22H12A	08/12/22 18:53	VM22H12A	SNC
31. trans-1,2-Dichloroethene	U		mg/L	0.00100	1.0	08/12/22	VM22H12A	08/12/22 18:53	VM22H12A	SNC
32. 1,2-Dichloropropane	U		mg/L	0.00100	1.0	08/12/22	VM22H12A	08/12/22 18:53	VM22H12A	SNC
33. cis-1,3-Dichloropropene	U		mg/L	0.000500	1.0	08/12/22	VM22H12A	08/12/22 18:53	VM22H12A	SNC
34. trans-1,3-Dichloropropene	U		mg/L	0.000500	1.0	08/12/22	VM22H12A	08/12/22 18:53	VM22H12A	SNC
35. Ethylbenzene	U		mg/L	0.00100	1.0	08/12/22	VM22H12A	08/12/22 18:53	VM22H12A	SNC
36. Ethylene Dibromide	U		mg/L	0.00100	1.0	08/12/22	VM22H12A	08/12/22 18:53	VM22H12A	SNC
‡ 37. 2-Hexanone	U		mg/L	0.0500	1.0	08/12/22	VM22H12A	08/12/22 18:53	VM22H12A	SNC

Client Identification:	**AKT Peerless Environ. Svcs, Inc. - Farm. Hills**	Sample Description:	**Loaction A**	Chain of Custody:	**206311**
Client Project Name:	**13038F-3-20**	Sample No:		Collect Date:	**08/05/22**
Client Project No:	**13038F-3-20**	Sample Matrix:	**Surface Water**	Collect Time:	**11:57**

Sample Comments:

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable ‡: Parameter not included in NELAC Scope of Analysis.

Volatile Organic Compounds (VOCs) by GC/MS **Aliquot ID: A10144-002B** **Matrix: Surface Water**
Method: EPA 0624.1 **Description: Loaction A**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation P. Date	Preparation P. Batch	Analysis A. Date	Analysis A. Batch	Init.
‡ 38. Isopropylbenzene	U		mg/L	0.00500	1.0	08/12/22	VM22H12A	08/12/22 18:53	VM22H12A	SNC
‡ 39. 4-Methyl-2-pentanone	U		mg/L	0.0500	1.0	08/12/22	VM22H12A	08/12/22 18:53	VM22H12A	SNC
40. Methylene Chloride	U		mg/L	0.00500	1.0	08/12/22	VM22H12A	08/12/22 18:53	VM22H12A	SNC
‡ 41. 2-Methylnaphthalene	U		mg/L	0.00500	1.0	08/12/22	VM22H12A	08/12/22 18:53	VM22H12A	SNC
42. MTBE	U		mg/L	0.00500	1.0	08/12/22	VM22H12A	08/12/22 18:53	VM22H12A	SNC
43. Naphthalene	U		mg/L	0.00500	1.0	08/12/22	VM22H12A	08/12/22 18:53	VM22H12A	SNC
‡ 44. n-Propylbenzene	U		mg/L	0.00100	1.0	08/12/22	VM22H12A	08/12/22 18:53	VM22H12A	SNC
‡ 45. Styrene	U		mg/L	0.00100	1.0	08/12/22	VM22H12A	08/12/22 18:53	VM22H12A	SNC
‡ 46. 1,1,1,2-Tetrachloroethane	U		mg/L	0.00100	1.0	08/12/22	VM22H12A	08/12/22 18:53	VM22H12A	SNC
47. 1,1,2,2-Tetrachloroethane	U		mg/L	0.00100	1.0	08/12/22	VM22H12A	08/12/22 18:53	VM22H12A	SNC
48. Tetrachloroethene	U		mg/L	0.00100	1.0	08/12/22	VM22H12A	08/12/22 18:53	VM22H12A	SNC
49. Toluene	U		mg/L	0.00100	1.0	08/12/22	VM22H12A	08/12/22 18:53	VM22H12A	SNC
‡ 50. 1,2,4-Trichlorobenzene	U		mg/L	0.00500	1.0	08/12/22	VM22H12A	08/12/22 18:53	VM22H12A	SNC
51. 1,1,1-Trichloroethane	U		mg/L	0.00100	1.0	08/12/22	VM22H12A	08/12/22 18:53	VM22H12A	SNC
52. 1,1,2-Trichloroethane	U		mg/L	0.00100	1.0	08/12/22	VM22H12A	08/12/22 18:53	VM22H12A	SNC
53. Trichloroethene	U		mg/L	0.00100	1.0	08/12/22	VM22H12A	08/12/22 18:53	VM22H12A	SNC
54. Trichlorofluoromethane	U		mg/L	0.00100	1.0	08/12/22	VM22H12A	08/12/22 18:53	VM22H12A	SNC
‡ 55. 1,2,3-Trichloropropane	U		mg/L	0.00100	1.0	08/12/22	VM22H12A	08/12/22 18:53	VM22H12A	SNC
‡ 56. 1,2,3-Trimethylbenzene	U		mg/L	0.00100	1.0	08/12/22	VM22H12A	08/12/22 18:53	VM22H12A	SNC
‡ 57. 1,2,4-Trimethylbenzene	U		mg/L	0.00100	1.0	08/12/22	VM22H12A	08/12/22 18:53	VM22H12A	SNC
‡ 58. 1,3,5-Trimethylbenzene	U		mg/L	0.00100	1.0	08/12/22	VM22H12A	08/12/22 18:53	VM22H12A	SNC
59. Vinyl Chloride	U		mg/L	0.00100	1.0	08/12/22	VM22H12A	08/12/22 18:53	VM22H12A	SNC
60. m&p-Xylene	U		mg/L	0.00200	1.0	08/12/22	VM22H12A	08/12/22 18:53	VM22H12A	SNC
61. o-Xylene	U		mg/L	0.00100	1.0	08/12/22	VM22H12A	08/12/22 18:53	VM22H12A	SNC
62. Xylenes	U		mg/L	0.00300	1.0	08/12/22	VM22H12A	08/12/22 18:53	VM22H12A	SNC

Base/Neutral/Acid Semivolatiles by GC/MS **Aliquot ID: A10144-002** **Matrix: Surface Water**
Method: EPA 0625.1 **Description: Loaction A**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation P. Date	Preparation P. Batch	Analysis A. Date	Analysis A. Batch	Init.
1. Acenaphthene	U		µg/L	5.0	1.0	08/11/22	PS22H11F	08/17/22 10:28	S622H17A	ALS
2. Acenaphthylene	U		µg/L	5.0	1.0	08/11/22	PS22H11F	08/17/22 10:28	S622H17A	ALS
‡ 3. Aniline	U		µg/L	4.0	1.0	08/11/22	PS22H11F	08/17/22 10:28	S622H17A	ALS
4. Anthracene	U		µg/L	5.0	1.0	08/11/22	PS22H11F	08/17/22 10:28	S622H17A	ALS
‡ 5. Azobenzene	U		µg/L	5.0	1.0	08/11/22	PS22H11F	08/17/22 10:28	S622H17A	ALS
6. Benzo(a)anthracene	U		µg/L	1.0	1.0	08/11/22	PS22H11F	08/17/22 10:28	S622H17A	ALS

Client Identification:	**AKT Peerless Environ. Svcs, Inc. - Farm. Hills**	Sample Description:	**Loaction A**	Chain of Custody:	**206311**
Client Project Name:	**13038F-3-20**	Sample No:		Collect Date:	**08/05/22**
Client Project No:	**13038F-3-20**	Sample Matrix:	**Surface Water**	Collect Time:	**11:57**

Sample Comments:

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable ‡: Parameter not included in NELAC Scope of Analysis.

Base/Neutral/Acid Semivolatiles by GC/MS **Aliquot ID: A10144-002** **Matrix: Surface Water**
Method: EPA 0625.1 **Description: Loaction A**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation P. Date	Preparation P. Batch	Analysis A. Date	Analysis A. Batch	Init.
7. Benzo(a)pyrene	U		µg/L	1.0	1.0	08/11/22	PS22H11F	08/17/22 10:28	S622H17A	ALS
8. Benzo(b)fluoranthene	U		µg/L	1.0	1.0	08/11/22	PS22H11F	08/17/22 10:28	S622H17A	ALS
9. Benzo(ghi)perylene	U		µg/L	1.0	1.0	08/11/22	PS22H11F	08/17/22 10:28	S622H17A	ALS
10. Benzo(k)fluoranthene	U		µg/L	1.0	1.0	08/11/22	PS22H11F	08/17/22 10:28	S622H17A	ALS
‡ 11. Benzyl Alcohol	U		µg/L	5.0	1.0	08/11/22	PS22H11F	08/17/22 10:28	S622H17A	ALS
12. Bis(2-chloroethoxy)methane	U		µg/L	5.0	1.0	08/11/22	PS22H11F	08/17/22 10:28	S622H17A	ALS
13. Bis(2-chloroethyl)ether	U		µg/L	1.0	1.0	08/11/22	PS22H11F	08/17/22 10:28	S622H17A	ALS
14. Bis(2-ethylhexyl)phthalate	U		µg/L	5.0	1.0	08/11/22	PS22H11F	08/17/22 10:28	S622H17A	ALS
15. 4-Bromophenyl Phenylether	U		µg/L	5.0	1.0	08/11/22	PS22H11F	08/17/22 10:28	S622H17A	ALS
16. Butyl Benzyl Phthalate	U		µg/L	5.0	1.0	08/11/22	PS22H11F	08/17/22 10:28	S622H17A	ALS
17. Di-n-butyl Phthalate	U		µg/L	5.0	1.0	08/11/22	PS22H11F	08/17/22 10:28	S622H17A	ALS
‡ 18. Carbazole	U		µg/L	5.0	1.0	08/11/22	PS22H11F	08/17/22 10:28	S622H17A	ALS
19. 4-Chloro-3-methylphenol	U		µg/L	5.0	1.0	08/11/22	PS22H11F	08/17/22 10:28	S622H17A	ALS
20. 2-Chloronaphthalene	U		µg/L	5.0	1.0	08/11/22	PS22H11F	08/17/22 10:28	S622H17A	ALS
21. 2-Chlorophenol	U		µg/L	5.0	1.0	08/11/22	PS22H11F	08/17/22 10:28	S622H17A	ALS
22. 4-Chlorophenyl Phenylether	U		µg/L	5.0	1.0	08/11/22	PS22H11F	08/17/22 10:28	S622H17A	ALS
23. Chrysene	U		µg/L	1.0	1.0	08/11/22	PS22H11F	08/17/22 10:28	S622H17A	ALS
24. Dibenzo(a,h)anthracene	U		µg/L	2.0	1.0	08/11/22	PS22H11F	08/17/22 10:28	S622H17A	ALS
‡ 25. Dibenzofuran	U		µg/L	4.0	1.0	08/11/22	PS22H11F	08/17/22 10:28	S622H17A	ALS
26. 2,4-Dichlorophenol	U		µg/L	5.0	1.0	08/11/22	PS22H11F	08/17/22 10:28	S622H17A	ALS
27. Diethyl Phthalate	U		µg/L	5.0	1.0	08/11/22	PS22H11F	08/17/22 10:28	S622H17A	ALS
28. 2,4-Dimethylphenol	U		µg/L	5.0	1.0	08/11/22	PS22H11F	08/17/22 10:28	S622H17A	ALS
29. Dimethyl Phthalate	U		µg/L	5.0	1.0	08/11/22	PS22H11F	08/17/22 10:28	S622H17A	ALS
30. 2,4-Dinitrophenol	U	L-*	µg/L	20	1.0	08/11/22	PS22H11F	08/17/22 10:28	S622H17A	ALS
‡ 31. 2,4-Dinitrotoluene	U		µg/L	5.0	1.0	08/11/22	PS22H11F	08/17/22 10:28	S622H17A	ALS
‡ 32. 2,6-Dinitrotoluene	U		µg/L	5.0	1.0	08/11/22	PS22H11F	08/17/22 10:28	S622H17A	ALS
33. Fluoranthene	U		µg/L	1.0	1.0	08/11/22	PS22H11F	08/17/22 10:28	S622H17A	ALS
34. Fluorene	U		µg/L	5.0	1.0	08/11/22	PS22H11F	08/17/22 10:28	S622H17A	ALS
35. Hexachlorobenzene	U		µg/L	5.0	1.0	08/11/22	PS22H11F	08/17/22 10:28	S622H17A	ALS
36. Hexachlorobutadiene	U		µg/L	5.0	1.0	08/11/22	PS22H11F	08/17/22 10:28	S622H17A	ALS
37. Hexachlorocyclopentadiene	U		µg/L	5.0	1.0	08/11/22	PS22H11F	08/17/22 10:28	S622H17A	ALS
38. Hexachloroethane	U		µg/L	5.0	1.0	08/11/22	PS22H11F	08/17/22 10:28	S622H17A	ALS
39. Indeno(1,2,3-cd)pyrene	U		µg/L	2.0	1.0	08/11/22	PS22H11F	08/17/22 10:28	S622H17A	ALS
‡ 40. Isophorone	U		µg/L	5.0	1.0	08/11/22	PS22H11F	08/17/22 10:28	S622H17A	ALS
41. 2-Methyl-4,6-dinitrophenol	U		µg/L	20	1.0	08/11/22	PS22H11F	08/17/22 10:28	S622H17A	ALS
‡ 42. 2-Methylnaphthalene	U		µg/L	5.0	1.0	08/11/22	PS22H11F	08/17/22 10:28	S622H17A	ALS

Client Identification:	**AKT Peerless Environ. Svcs, Inc. - Farm. Hills**	Sample Description:	**Loaction A**	Chain of Custody:	**206311**
Client Project Name:	**13038F-3-20**	Sample No:		Collect Date:	**08/05/22**
Client Project No:	**13038F-3-20**	Sample Matrix:	**Surface Water**	Collect Time:	**11:57**

Sample Comments:

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable ‡: Parameter not included in NELAC Scope of Analysis.

Base/Neutral/Acid Semivolatiles by GC/MS **Aliquot ID: A10144-002** **Matrix: Surface Water**
Method: EPA 0625.1 **Description: Loaction A**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation P. Date	Preparation P. Batch	Analysis A. Date	Analysis A. Batch	Init.
43. 2-Methylphenol	U		µg/L	5.0	1.0	08/11/22	PS22H11F	08/17/22 10:28	S622H17A	ALS
‡ 44. 3&4-Methylphenol	U		µg/L	10	1.0	08/11/22	PS22H11F	08/17/22 10:28	S622H17A	ALS
45. Naphthalene	U		µg/L	5.0	1.0	08/11/22	PS22H11F	08/17/22 10:28	S622H17A	ALS
‡ 46. 2-Nitroaniline	U		µg/L	20	1.0	08/11/22	PS22H11F	08/17/22 10:28	S622H17A	ALS
‡ 47. 3-Nitroaniline	U		µg/L	20	1.0	08/11/22	PS22H11F	08/17/22 10:28	S622H17A	ALS
‡ 48. 4-Nitroaniline	U		µg/L	20	1.0	08/11/22	PS22H11F	08/17/22 10:28	S622H17A	ALS
49. Nitrobenzene	U		µg/L	3.0	1.0	08/11/22	PS22H11F	08/17/22 10:28	S622H17A	ALS
50. 2-Nitrophenol	U		µg/L	5.0	1.0	08/11/22	PS22H11F	08/17/22 10:28	S622H17A	ALS
51. 4-Nitrophenol	U	L-	µg/L	20	1.0	08/11/22	PS22H11F	08/17/22 10:28	S622H17A	ALS
52. N-Nitrosodimethylamine	U		µg/L	5.0	1.0	08/11/22	PS22H11F	08/17/22 10:28	S622H17A	ALS
53. N-Nitrosodi-n-propylamine	U		µg/L	5.0	1.0	08/11/22	PS22H11F	08/17/22 10:28	S622H17A	ALS
54. N-Nitrosodiphenylamine	U		µg/L	5.0	1.0	08/11/22	PS22H11F	08/17/22 10:28	S622H17A	ALS
55. Di-n-octyl Phthalate	U		µg/L	5.0	1.0	08/11/22	PS22H11F	08/17/22 10:28	S622H17A	ALS
56. 2,2'-Oxybis(1-chloropropane)	U		µg/L	5.0	1.0	08/11/22	PS22H11F	08/17/22 10:28	S622H17A	ALS
57. Pentachlorophenol	U	L-	µg/L	20	1.0	08/11/22	PS22H11F	08/17/22 10:28	S622H17A	ALS
58. Phenanthrene	U		µg/L	2.0	1.0	08/11/22	PS22H11F	08/17/22 10:28	S622H17A	ALS
59. Phenol	U		µg/L	5.0	1.0	08/11/22	PS22H11F	08/17/22 10:28	S622H17A	ALS
60. Pyrene	U		µg/L	5.0	1.0	08/11/22	PS22H11F	08/17/22 10:28	S622H17A	ALS
61. Pyridine	U		µg/L	5.0	1.0	08/11/22	PS22H11F	08/17/22 10:28	S622H17A	ALS
62. 1,2,4-Trichlorobenzene	U		µg/L	5.0	1.0	08/11/22	PS22H11F	08/17/22 10:28	S622H17A	ALS
63. 2,4,5-Trichlorophenol	U		µg/L	5.0	1.0	08/11/22	PS22H11F	08/17/22 10:28	S622H17A	ALS
64. 2,4,6-Trichlorophenol	U		µg/L	4.0	1.0	08/11/22	PS22H11F	08/17/22 10:28	S622H17A	ALS

Chromium, Hexavalent, Dissolved **Aliquot ID: A10144-002A** **Matrix: Surface Water**
Method: SM 3500-Cr B-2011 **Description: Loaction A**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation P. Date	Preparation P. Batch	Analysis A. Date	Analysis A. Batch	Init.
1. Chromium VI	U		mg/L	0.0050	1.0	NA	NA	08/05/22 16:23	W322H05A	TDJ

Fibertec environmental services

Analytical Laboratory Report
Laboratory Project Number: A10144
Laboratory Sample Number: A10144-003

Order: A10144
Date: 08/23/22

Client Identification:	**AKT Peerless Environ. Svcs, Inc. - Farm. Hills**	Sample Description:	**Location B**	Chain of Custody:	**206311**
Client Project Name:	**13038F-3-20**	Sample No:		Collect Date:	**08/05/22**
Client Project No:	**13038F-3-20**	Sample Matrix:	**Soil/Solid**	Collect Time:	**10:49**

Sample Comments: **Soil results have been calculated and reported on a dry weight basis unless otherwise noted.**

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable ‡: Parameter not included in NELAC Scope of Analysis.

Water (Moisture) Content Dried at 105 ± 5°C **Aliquot ID: A10144-003** **Matrix: Soil/Solid**
Method: ASTM D2216-10 **Description: Location B**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation P. Date	Preparation P. Batch	Analysis A. Date	Analysis A. Batch	Init.
‡ 1. Percent Moisture (Water Content)	**20**		%	1	1.0	08/09/22	MC220809	08/10/22	MC220809	LJK

Michigan 10 Elements by ICP/MS **Aliquot ID: A10144-003** **Matrix: Soil/Solid**
Method: EPA 0200.2/EPA 6020A **Description: Location B**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation P. Date	Preparation P. Batch	Analysis A. Date	Analysis A. Batch	Init.
1. Arsenic	**2800**		µg/kg	100	20	08/11/22	PT22H11B	08/12/22	T422H12A	CJA
2. Barium	**13000**		µg/kg	1000	20	08/11/22	PT22H11B	08/12/22	T422H12A	CJA
3. Cadmium	**61**		µg/kg	50	20	08/11/22	PT22H11B	08/12/22	T422H12A	CJA
4. Chromium	**9600**		µg/kg	500	20	08/11/22	PT22H11B	08/12/22	T422H12A	CJA
5. Copper	**3400**		µg/kg	1000	20	08/11/22	PT22H11B	08/12/22	T422H12A	CJA
6. Lead	**13000**		µg/kg	1000	20	08/11/22	PT22H11B	08/12/22	T422H12A	CJA
7. Selenium	U		µg/kg	200	20	08/11/22	PT22H11B	08/12/22	T422H12A	CJA
8. Silver	U		µg/kg	100	20	08/11/22	PT22H11B	08/12/22	T422H12A	CJA
9. Zinc	**36000**		µg/kg	1000	20	08/11/22	PT22H11B	08/12/22	T422H12A	CJA

Chromium, Hexavalent **Aliquot ID: A10144-003** **Matrix: Soil/Solid**
Method: EPA 3060A/EPA 7196A **Description: Location B**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation P. Date	Preparation P. Batch	Analysis A. Date	Analysis A. Batch	Init.
1. Chromium VI	U		µg/kg	500	1.0	08/08/22	W322H08B	08/09/22	W322H08B	MJS

Mercury by CVAAS **Aliquot ID: A10144-003** **Matrix: Soil/Solid**
Method: EPA 7471B **Description: Location B**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation P. Date	Preparation P. Batch	Analysis A. Date	Analysis A. Batch	Init.
1. Mercury	U		µg/kg	50	10	08/09/22	PM22H09B	08/11/22	M722H11A	JLH

Organochlorine Pesticides **Aliquot ID: A10144-003** **Matrix: Soil/Solid**
Method: EPA 3546/EPA 8081B **Description: Location B**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation P. Date	Preparation P. Batch	Analysis A. Date	Analysis A. Batch	Init.
1. Aldrin	U		µg/kg	20	5.0	08/10/22	PS22H10B	08/11/22 09:47	SO22H11A	TKT
2. alpha-BHC	U		µg/kg	20	5.0	08/10/22	PS22H10B	08/11/22 09:47	SO22H11A	TKT

Client Identification:	**AKT Peerless Environ. Svcs, Inc. - Farm. Hills**	Sample Description:	**Location B**	Chain of Custody:	**206311**
Client Project Name:	**13038F-3-20**	Sample No:		Collect Date:	**08/05/22**
Client Project No:	**13038F-3-20**	Sample Matrix:	**Soil/Solid**	Collect Time:	**10:49**

Sample Comments: **Soil results have been calculated and reported on a dry weight basis unless otherwise noted.**

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable ‡: Parameter not included in NELAC Scope of Analysis.

Organochlorine Pesticides **Aliquot ID: A10144-003** **Matrix: Soil/Solid**
Method: EPA 3546/EPA 8081B **Description: Location B**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation P. Date	Preparation P. Batch	Analysis A. Date	Analysis A. Batch	Init.
3. beta-BHC	U		µg/kg	20	5.0	08/10/22	PS22H10B	08/11/22 09:47	SO22H11A	TKT
4. delta-BHC	U		µg/kg	20	5.0	08/10/22	PS22H10B	08/11/22 09:47	SO22H11A	TKT
5. gamma-BHC	U		µg/kg	20	5.0	08/10/22	PS22H10B	08/11/22 09:47	SO22H11A	TKT
6. Chlordane	U		µg/kg	25	5.0	08/10/22	PS22H10B	08/11/22 09:47	SO22H11A	TKT
7. 4,4'-DDD	U		µg/kg	20	5.0	08/10/22	PS22H10B	08/11/22 09:47	SO22H11A	TKT
8. 4,4'-DDE	U		µg/kg	20	5.0	08/10/22	PS22H10B	08/11/22 09:47	SO22H11A	TKT
9. 4,4'-DDT	U		µg/kg	20	5.0	08/10/22	PS22H10B	08/11/22 09:47	SO22H11A	TKT
10. Dieldrin	U		µg/kg	20	5.0	08/10/22	PS22H10B	08/11/22 09:47	SO22H11A	TKT
11. Endosulfan I	U	L-	µg/kg	20	5.0	08/10/22	PS22H10B	08/11/22 09:47	SO22H11A	TKT
12. Endosulfan II	U		µg/kg	20	5.0	08/10/22	PS22H10B	08/11/22 09:47	SO22H11A	TKT
13. Endosulfan Sulfate	U		µg/kg	20	5.0	08/10/22	PS22H10B	08/11/22 09:47	SO22H11A	TKT
14. Endrin	U		µg/kg	20	5.0	08/10/22	PS22H10B	08/11/22 09:47	SO22H11A	TKT
15. Endrin Aldehyde	U		µg/kg	20	5.0	08/10/22	PS22H10B	08/11/22 09:47	SO22H11A	TKT
16. Heptachlor	U		µg/kg	20	5.0	08/10/22	PS22H10B	08/11/22 09:47	SO22H11A	TKT
17. Heptachlor Epoxide	U		µg/kg	20	5.0	08/10/22	PS22H10B	08/11/22 09:47	SO22H11A	TKT
18. Methoxychlor	U	L-	µg/kg	50	5.0	08/10/22	PS22H10B	08/11/22 09:47	SO22H11A	TKT
19. Toxaphene	U		µg/kg	170	5.0	08/10/22	PS22H10B	08/11/22 09:47	SO22H11A	TKT

Polychlorinated Biphenyls (PCBs) **Aliquot ID: A10144-003** **Matrix: Soil/Solid**
Method: EPA 3546/EPA 8082A **Description: Location B**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation P. Date	Preparation P. Batch	Analysis A. Date	Analysis A. Batch	Init.
1. Aroclor-1016	U		µg/kg	100	5.0	08/10/22	PS22H10B	08/10/22 16:08	SO22H10A	TKT
2. Aroclor-1221	U		µg/kg	100	5.0	08/10/22	PS22H10B	08/10/22 16:08	SO22H10A	TKT
3. Aroclor-1232	U		µg/kg	100	5.0	08/10/22	PS22H10B	08/10/22 16:08	SO22H10A	TKT
4. Aroclor-1242	U		µg/kg	100	5.0	08/10/22	PS22H10B	08/10/22 16:08	SO22H10A	TKT
5. Aroclor-1248	U		µg/kg	100	5.0	08/10/22	PS22H10B	08/10/22 16:08	SO22H10A	TKT
6. Aroclor-1254	U		µg/kg	100	5.0	08/10/22	PS22H10B	08/10/22 16:08	SO22H10A	TKT
7. Aroclor-1260	U		µg/kg	100	5.0	08/10/22	PS22H10B	08/10/22 16:08	SO22H10A	TKT
‡ 8. Aroclor-1262	U		µg/kg	100	5.0	08/10/22	PS22H10B	08/10/22 16:08	SO22H10A	TKT
‡ 9. Aroclor-1268	U		µg/kg	100	5.0	08/10/22	PS22H10B	08/10/22 16:08	SO22H10A	TKT

Client Identification:	**AKT Peerless Environ. Svcs, Inc. - Farm. Hills**	Sample Description:	**Location B**	Chain of Custody:	**206311**
Client Project Name:	**13038F-3-20**	Sample No:		Collect Date:	**08/05/22**
Client Project No:	**13038F-3-20**	Sample Matrix:	**Soil/Solid**	Collect Time:	**10:49**

Sample Comments: **Soil results have been calculated and reported on a dry weight basis unless otherwise noted.**

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable ‡: Parameter not included in NELAC Scope of Analysis.

Organochlorine Herbicides **Aliquot ID: A10144-003** **Matrix: Soil/Solid**
Method: EPA 8151A **Description: Location B**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation P. Date	Preparation P. Batch	Analysis A. Date	Analysis A. Batch	Init.
‡ 1. 2,4-D	U		µg/kg	200	5.0	08/09/22	PS22H09E	08/11/22 00:46	SC22H10A	TKT
‡ 2. Dalapon	U		µg/kg	100	5.0	08/09/22	PS22H09E	08/11/22 00:46	SC22H10A	TKT
‡ 3. 2,4-DB	U	L+	µg/kg	200	5.0	08/09/22	PS22H09E	08/11/22 00:46	SC22H10A	TKT
‡ 4. Dicamba	U		µg/kg	100	5.0	08/09/22	PS22H09E	08/11/22 00:46	SC22H10A	TKT
‡ 5. Dichlorprop	U		µg/kg	200	5.0	08/09/22	PS22H09E	08/11/22 00:46	SC22H10A	TKT
‡ 6. Dinoseb	U	V+ L+	µg/kg	100	5.0	08/09/22	PS22H09E	08/11/22 00:46	SC22H10A	TKT
‡ 7. 2,4,5-T	U		µg/kg	200	5.0	08/09/22	PS22H09E	08/11/22 00:46	SC22H10A	TKT
‡ 8. 2,4,5-TP	U		µg/kg	200	5.0	08/09/22	PS22H09E	08/11/22 00:46	SC22H10A	TKT

Volatile Organic Compounds (VOCs) by GC/MS, 5035 **Aliquot ID: A10144-003A** **Matrix: Soil/Solid**
Method: EPA 5035A/EPA 8260D **Description: Location B**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation P. Date	Preparation P. Batch	Analysis A. Date	Analysis A. Batch	Init.
1. Acetone	U	Y1	µg/kg	1000	2.0	08/09/22	VJ22H09A	08/09/22 21:09	VJ22H09A	BRC
‡ 2. Acrylonitrile	U	Y1	µg/kg	100	2.0	08/09/22	VJ22H09A	08/09/22 21:09	VJ22H09A	BRC
3. Benzene	U	Y1	µg/kg	76	2.0	08/09/22	VJ22H09A	08/09/22 21:09	VJ22H09A	BRC
4. Bromobenzene	U	Y1	µg/kg	100	2.0	08/09/22	VJ22H09A	08/09/22 21:09	VJ22H09A	BRC
5. Bromochloromethane	U	Y1	µg/kg	100	2.0	08/09/22	VJ22H09A	08/09/22 21:09	VJ22H09A	BRC
6. Bromodichloromethane	U	Y1	µg/kg	100	2.0	08/09/22	VJ22H09A	08/09/22 21:09	VJ22H09A	BRC
7. Bromoform	U	Y1	µg/kg	100	2.0	08/09/22	VJ22H09A	08/09/22 21:09	VJ22H09A	BRC
8. Bromomethane	U	Y1	µg/kg	200	2.0	08/09/22	VJ22H09A	08/09/22 21:09	VJ22H09A	BRC
9. 2-Butanone	U	Y1	µg/kg	760	2.0	08/09/22	VJ22H09A	08/09/22 21:09	VJ22H09A	BRC
10. n-Butylbenzene	U	Y1	µg/kg	76	2.0	08/09/22	VJ22H09A	08/09/22 21:09	VJ22H09A	BRC
11. sec-Butylbenzene	U	Y1	µg/kg	76	2.0	08/09/22	VJ22H09A	08/09/22 21:09	VJ22H09A	BRC
12. tert-Butylbenzene	U	Y1	µg/kg	76	2.0	08/09/22	VJ22H09A	08/09/22 21:09	VJ22H09A	BRC
13. Carbon Disulfide	U	Y1	µg/kg	250	2.0	08/09/22	VJ22H09A	08/09/22 21:09	VJ22H09A	BRC
14. Carbon Tetrachloride	U	Y1	µg/kg	76	2.0	08/09/22	VJ22H09A	08/09/22 21:09	VJ22H09A	BRC
15. Chlorobenzene	U	Y1	µg/kg	76	2.0	08/09/22	VJ22H09A	08/09/22 21:09	VJ22H09A	BRC
16. Chloroethane	U	Y1	µg/kg	250	2.0	08/09/22	VJ22H09A	08/09/22 21:09	VJ22H09A	BRC
17. Chloroform	U	Y1	µg/kg	76	2.0	08/09/22	VJ22H09A	08/09/22 21:09	VJ22H09A	BRC
18. Chloromethane	U	Y1	µg/kg	250	2.0	08/09/22	VJ22H09A	08/09/22 21:09	VJ22H09A	BRC
19. 2-Chlorotoluene	U	Y1	µg/kg	76	2.0	08/09/22	VJ22H09A	08/09/22 21:09	VJ22H09A	BRC
‡ 20. 1,2-Dibromo-3-chloropropane (SIM)	U	Y1	µg/kg	250	2.0	08/09/22	VJ22H09A	08/09/22 21:09	VJ22H09A	BRC
21. Dibromochloromethane	U	Y1	µg/kg	100	2.0	08/09/22	VJ22H09A	08/09/22 21:09	VJ22H09A	BRC
22. Dibromomethane	U	Y1	µg/kg	250	2.0	08/09/22	VJ22H09A	08/09/22 21:09	VJ22H09A	BRC

Client Identification:	**AKT Peerless Environ. Svcs, Inc. - Farm. Hills**	Sample Description:	**Location B**	Chain of Custody:	**206311**
Client Project Name:	**13038F-3-20**	Sample No:		Collect Date:	**08/05/22**
Client Project No:	**13038F-3-20**	Sample Matrix:	**Soil/Solid**	Collect Time:	**10:49**

Sample Comments: **Soil results have been calculated and reported on a dry weight basis unless otherwise noted.**

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable ‡: Parameter not included in NELAC Scope of Analysis.

Volatile Organic Compounds (VOCs) by GC/MS, 5035 **Aliquot ID: A10144-003A** **Matrix: Soil/Solid**
Method: EPA 5035A/EPA 8260D **Description: Location B**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation P. Date	Preparation P. Batch	Analysis A. Date	Analysis A. Batch	Init.
23. 1,2-Dichlorobenzene	U	Y1	µg/kg	100	2.0	08/09/22	VJ22H09A	08/09/22 21:09	VJ22H09A	BRC
24. 1,3-Dichlorobenzene	U	Y1	µg/kg	100	2.0	08/09/22	VJ22H09A	08/09/22 21:09	VJ22H09A	BRC
25. 1,4-Dichlorobenzene	U	Y1	µg/kg	100	2.0	08/09/22	VJ22H09A	08/09/22 21:09	VJ22H09A	BRC
26. Dichlorodifluoromethane	U	Y1	µg/kg	250	2.0	08/09/22	VJ22H09A	08/09/22 21:09	VJ22H09A	BRC
27. 1,1-Dichloroethane	U	Y1	µg/kg	76	2.0	08/09/22	VJ22H09A	08/09/22 21:09	VJ22H09A	BRC
28. 1,2-Dichloroethane	U	Y1	µg/kg	76	2.0	08/09/22	VJ22H09A	08/09/22 21:09	VJ22H09A	BRC
29. 1,1-Dichloroethene	U	Y1	µg/kg	76	2.0	08/09/22	VJ22H09A	08/09/22 21:09	VJ22H09A	BRC
30. cis-1,2-Dichloroethene	U	Y1	µg/kg	76	2.0	08/09/22	VJ22H09A	08/09/22 21:09	VJ22H09A	BRC
31. trans-1,2-Dichloroethene	U	Y1	µg/kg	76	2.0	08/09/22	VJ22H09A	08/09/22 21:09	VJ22H09A	BRC
32. 1,2-Dichloropropane	U	Y1	µg/kg	76	2.0	08/09/22	VJ22H09A	08/09/22 21:09	VJ22H09A	BRC
33. cis-1,3-Dichloropropene	U	Y1	µg/kg	76	2.0	08/09/22	VJ22H09A	08/09/22 21:09	VJ22H09A	BRC
34. trans-1,3-Dichloropropene	U	Y1	µg/kg	76	2.0	08/09/22	VJ22H09A	08/09/22 21:09	VJ22H09A	BRC
35. Ethylbenzene	U	Y1	µg/kg	76	2.0	08/09/22	VJ22H09A	08/09/22 21:09	VJ22H09A	BRC
36. Ethylene Dibromide	U	Y1	µg/kg	76	2.0	08/09/22	VJ22H09A	08/09/22 21:09	VJ22H09A	BRC
37. 2-Hexanone	U	Y1	µg/kg	2500	2.0	08/09/22	VJ22H09A	08/09/22 21:09	VJ22H09A	BRC
38. Isopropylbenzene	U	Y1	µg/kg	250	2.0	08/09/22	VJ22H09A	08/09/22 21:09	VJ22H09A	BRC
39. 4-Methyl-2-pentanone	U	Y1	µg/kg	2500	2.0	08/09/22	VJ22H09A	08/09/22 21:09	VJ22H09A	BRC
40. Methylene Chloride	U	Y1	µg/kg	100	2.0	08/09/22	VJ22H09A	08/09/22 21:09	VJ22H09A	BRC
‡ 41. 2-Methylnaphthalene	U	Y1	µg/kg	330	2.0	08/09/22	VJ22H09A	08/09/22 21:09	VJ22H09A	BRC
42. MTBE	U	Y1	µg/kg	250	2.0	08/09/22	VJ22H09A	08/09/22 21:09	VJ22H09A	BRC
43. Naphthalene	U	Y1	µg/kg	330	2.0	08/09/22	VJ22H09A	08/09/22 21:09	VJ22H09A	BRC
44. n-Propylbenzene	U	Y1	µg/kg	100	2.0	08/09/22	VJ22H09A	08/09/22 21:09	VJ22H09A	BRC
45. Styrene	U	Y1	µg/kg	76	2.0	08/09/22	VJ22H09A	08/09/22 21:09	VJ22H09A	BRC
46. 1,1,1,2-Tetrachloroethane	U	Y1	µg/kg	100	2.0	08/09/22	VJ22H09A	08/09/22 21:09	VJ22H09A	BRC
47. 1,1,2,2-Tetrachloroethane	U	Y1	µg/kg	76	2.0	08/09/22	VJ22H09A	08/09/22 21:09	VJ22H09A	BRC
48. Tetrachloroethene	U	Y1	µg/kg	76	2.0	08/09/22	VJ22H09A	08/09/22 21:09	VJ22H09A	BRC
49. Toluene	U	Y1	µg/kg	76	2.0	08/09/22	VJ22H09A	08/09/22 21:09	VJ22H09A	BRC
50. 1,2,4-Trichlorobenzene	U	Y1	µg/kg	250	2.0	08/09/22	VJ22H09A	08/09/22 21:09	VJ22H09A	BRC
51. 1,1,1-Trichloroethane	U	Y1	µg/kg	76	2.0	08/09/22	VJ22H09A	08/09/22 21:09	VJ22H09A	BRC
52. 1,1,2-Trichloroethane	U	Y1	µg/kg	76	2.0	08/09/22	VJ22H09A	08/09/22 21:09	VJ22H09A	BRC
53. Trichloroethene	U	Y1	µg/kg	76	2.0	08/09/22	VJ22H09A	08/09/22 21:09	VJ22H09A	BRC
54. Trichlorofluoromethane	U	Y1	µg/kg	100	2.0	08/09/22	VJ22H09A	08/09/22 21:09	VJ22H09A	BRC
55. 1,2,3-Trichloropropane	U	Y1	µg/kg	110	2.0	08/09/22	VJ22H09A	08/09/22 21:09	VJ22H09A	BRC
‡ 56. 1,2,3-Trimethylbenzene	U	Y1	µg/kg	100	2.0	08/09/22	VJ22H09A	08/09/22 21:09	VJ22H09A	BRC
57. 1,2,4-Trimethylbenzene	U	Y1	µg/kg	100	2.0	08/09/22	VJ22H09A	08/09/22 21:09	VJ22H09A	BRC
58. 1,3,5-Trimethylbenzene	U	Y1	µg/kg	100	2.0	08/09/22	VJ22H09A	08/09/22 21:09	VJ22H09A	BRC

Client Identification:	**AKT Peerless Environ. Svcs, Inc. - Farm. Hills**	Sample Description:	**Location B**	Chain of Custody:	**206311**
Client Project Name:	**13038F-3-20**	Sample No:		Collect Date:	**08/05/22**
Client Project No:	**13038F-3-20**	Sample Matrix:	**Soil/Solid**	Collect Time:	**10:49**

Sample Comments: **Soil results have been calculated and reported on a dry weight basis unless otherwise noted.**

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable ‡: Parameter not included in NELAC Scope of Analysis.

Volatile Organic Compounds (VOCs) by GC/MS, 5035 **Aliquot ID: A10144-003A** **Matrix: Soil/Solid**
Method: EPA 5035A/EPA 8260D **Description: Location B**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation P. Date	Preparation P. Batch	Analysis A. Date	Analysis A. Batch	Init.
59. Vinyl Chloride	U	Y1	µg/kg	76	2.0	08/09/22	VJ22H09A	08/09/22 21:09	VJ22H09A	BRC
60. m&p-Xylene	U	Y1	µg/kg	150	2.0	08/09/22	VJ22H09A	08/09/22 21:09	VJ22H09A	BRC
61. o-Xylene	U	Y1	µg/kg	76	2.0	08/09/22	VJ22H09A	08/09/22 21:09	VJ22H09A	BRC
‡ 62. Xylenes	U	Y1	µg/kg	230	2.0	08/09/22	VJ22H09A	08/09/22 21:09	VJ22H09A	BRC

Base/Neutral/Acid Semivolatiles by GC/MS **Aliquot ID: A10144-003** **Matrix: Soil/Solid**
Method: EPA 3550C/EPA 8270E **Description: Location B**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation P. Date	Preparation P. Batch	Analysis A. Date	Analysis A. Batch	Init.
1. Acenaphthene	U		µg/kg	330	5.0	08/16/22	PS22H10K	08/17/22 13:03	S622H17A	ALS
2. Acenaphthylene	U		µg/kg	330	5.0	08/16/22	PS22H10K	08/17/22 13:03	S622H17A	ALS
3. Aniline	U	Y1	µg/kg	1000	5.0	08/16/22	PS22H10K	08/17/22 13:03	S622H17A	ALS
4. Anthracene	U		µg/kg	330	5.0	08/16/22	PS22H10K	08/17/22 13:03	S622H17A	ALS
‡ 5. Azobenzene	U		µg/kg	330	5.0	08/16/22	PS22H10K	08/17/22 13:03	S622H17A	ALS
6. Benzo(a)anthracene	U		µg/kg	330	5.0	08/16/22	PS22H10K	08/17/22 13:03	S622H17A	ALS
7. Benzo(a)pyrene	U		µg/kg	330	5.0	08/16/22	PS22H10K	08/17/22 13:03	S622H17A	ALS
8. Benzo(b)fluoranthene	U		µg/kg	330	5.0	08/16/22	PS22H10K	08/17/22 13:03	S622H17A	ALS
9. Benzo(ghi)perylene	U		µg/kg	330	5.0	08/16/22	PS22H10K	08/17/22 13:03	S622H17A	ALS
10. Benzo(k)fluoranthene	U		µg/kg	330	5.0	08/16/22	PS22H10K	08/17/22 13:03	S622H17A	ALS
11. Benzyl Alcohol	U		µg/kg	3300	5.0	08/16/22	PS22H10K	08/17/22 13:03	S622H17A	ALS
12. Bis(2-chloroethoxy)methane	U		µg/kg	330	5.0	08/16/22	PS22H10K	08/17/22 13:03	S622H17A	ALS
13. Bis(2-chloroethyl)ether	U		µg/kg	210	5.0	08/16/22	PS22H10K	08/17/22 13:03	S622H17A	ALS
14. Bis(2-ethylhexyl)phthalate	U		µg/kg	330	5.0	08/16/22	PS22H10K	08/17/22 13:03	S622H17A	ALS
15. 4-Bromophenyl Phenylether	U		µg/kg	330	5.0	08/16/22	PS22H10K	08/17/22 13:03	S622H17A	ALS
16. Butyl Benzyl Phthalate	U	Y1	µg/kg	1000	5.0	08/16/22	PS22H10K	08/17/22 13:03	S622H17A	ALS
17. Di-n-butyl Phthalate	U		µg/kg	330	5.0	08/16/22	PS22H10K	08/17/22 13:03	S622H17A	ALS
‡ 18. Carbazole	U		µg/kg	330	5.0	08/16/22	PS22H10K	08/17/22 13:03	S622H17A	ALS
19. 4-Chloro-3-methylphenol	U	Y1	µg/kg	1000	5.0	08/16/22	PS22H10K	08/17/22 13:03	S622H17A	ALS
20. 2-Chloronaphthalene	U		µg/kg	330	5.0	08/16/22	PS22H10K	08/17/22 13:03	S622H17A	ALS
21. 2-Chlorophenol	U		µg/kg	330	5.0	08/16/22	PS22H10K	08/17/22 13:03	S622H17A	ALS
22. 4-Chlorophenyl Phenylether	U		µg/kg	330	5.0	08/16/22	PS22H10K	08/17/22 13:03	S622H17A	ALS
23. Chrysene	U		µg/kg	330	5.0	08/16/22	PS22H10K	08/17/22 13:03	S622H17A	ALS
24. Dibenzo(a,h)anthracene	U		µg/kg	330	5.0	08/16/22	PS22H10K	08/17/22 13:03	S622H17A	ALS
25. Dibenzofuran	U		µg/kg	330	5.0	08/16/22	PS22H10K	08/17/22 13:03	S622H17A	ALS
26. 2,4-Dichlorophenol	U		µg/kg	330	5.0	08/16/22	PS22H10K	08/17/22 13:03	S622H17A	ALS
27. Diethyl Phthalate	U		µg/kg	330	5.0	08/16/22	PS22H10K	08/17/22 13:03	S622H17A	ALS

Fibertec environmental services

Analytical Laboratory Report
Laboratory Project Number: A10144
Laboratory Sample Number: A10144-003

Order: A10144
Date: 08/23/22

Client Identification:	**AKT Peerless Environ. Svcs, Inc. - Farm. Hills**	Sample Description:	**Location B**	Chain of Custody:	**206311**
Client Project Name:	**13038F-3-20**	Sample No:		Collect Date:	**08/05/22**
Client Project No:	**13038F-3-20**	Sample Matrix:	**Soil/Solid**	Collect Time:	**10:49**

Sample Comments: **Soil results have been calculated and reported on a dry weight basis unless otherwise noted.**

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable ‡: Parameter not included in NELAC Scope of Analysis.

Base/Neutral/Acid Semivolatiles by GC/MS **Aliquot ID: A10144-003** **Matrix: Soil/Solid**
Method: EPA 3550C/EPA 8270E **Description: Location B**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation P. Date	Preparation P. Batch	Analysis A. Date	Analysis A. Batch	Init.
28. 2,4-Dimethylphenol	U		µg/kg	330	5.0	08/16/22	PS22H10K	08/17/22 13:03	S622H17A	ALS
29. Dimethyl Phthalate	U		µg/kg	330	5.0	08/16/22	PS22H10K	08/17/22 13:03	S622H17A	ALS
30. 2,4-Dinitrophenol	U	Y1	µg/kg	4200	5.0	08/16/22	PS22H10K	08/17/22 13:03	S622H17A	ALS
‡ 31. 2,4-Dinitrotoluene	U		µg/kg	330	5.0	08/16/22	PS22H10K	08/17/22 13:03	S622H17A	ALS
‡ 32. 2,6-Dinitrotoluene	U		µg/kg	330	5.0	08/16/22	PS22H10K	08/17/22 13:03	S622H17A	ALS
33. Fluoranthene	U		µg/kg	330	5.0	08/16/22	PS22H10K	08/17/22 13:03	S622H17A	ALS
34. Fluorene	U		µg/kg	330	5.0	08/16/22	PS22H10K	08/17/22 13:03	S622H17A	ALS
35. Hexachlorobenzene	U		µg/kg	330	5.0	08/16/22	PS22H10K	08/17/22 13:03	S622H17A	ALS
36. Hexachlorobutadiene	U		µg/kg	330	5.0	08/16/22	PS22H10K	08/17/22 13:03	S622H17A	ALS
37. Hexachlorocyclopentadiene	U	Y1	µg/kg	1000	5.0	08/16/22	PS22H10K	08/17/22 13:03	S622H17A	ALS
38. Hexachloroethane	U		µg/kg	330	5.0	08/16/22	PS22H10K	08/17/22 13:03	S622H17A	ALS
39. Indeno(1,2,3-cd)pyrene	U		µg/kg	330	5.0	08/16/22	PS22H10K	08/17/22 13:03	S622H17A	ALS
‡ 40. Isophorone	U	L+	µg/kg	330	5.0	08/16/22	PS22H10K	08/17/22 13:03	S622H17A	ALS
41. 2-Methyl-4,6-dinitrophenol	U		µg/kg	1000	5.0	08/16/22	PS22H10K	08/17/22 13:03	S622H17A	ALS
42. 2-Methylnaphthalene	U		µg/kg	330	5.0	08/16/22	PS22H10K	08/17/22 13:03	S622H17A	ALS
43. 2-Methylphenol	U		µg/kg	330	5.0	08/16/22	PS22H10K	08/17/22 13:03	S622H17A	ALS
‡ 44. 3&4-Methylphenol	U		µg/kg	660	5.0	08/16/22	PS22H10K	08/17/22 13:03	S622H17A	ALS
45. Naphthalene	U		µg/kg	330	5.0	08/16/22	PS22H10K	08/17/22 13:03	S622H17A	ALS
46. 2-Nitroaniline	U		µg/kg	330	5.0	08/16/22	PS22H10K	08/17/22 13:03	S622H17A	ALS
47. 3-Nitroaniline	U		µg/kg	830	5.0	08/16/22	PS22H10K	08/17/22 13:03	S622H17A	ALS
48. 4-Nitroaniline	U		µg/kg	830	5.0	08/16/22	PS22H10K	08/17/22 13:03	S622H17A	ALS
49. Nitrobenzene	U		µg/kg	330	5.0	08/16/22	PS22H10K	08/17/22 13:03	S622H17A	ALS
50. 2-Nitrophenol	U		µg/kg	330	5.0	08/16/22	PS22H10K	08/17/22 13:03	S622H17A	ALS
51. 4-Nitrophenol	U	L-Y1	µg/kg	4200	5.0	08/16/22	PS22H10K	08/17/22 13:03	S622H17A	ALS
52. N-Nitrosodimethylamine	U		µg/kg	330	5.0	08/16/22	PS22H10K	08/17/22 13:03	S622H17A	ALS
53. N-Nitrosodi-n-propylamine	U		µg/kg	330	5.0	08/16/22	PS22H10K	08/17/22 13:03	S622H17A	ALS
54. N-Nitrosodiphenylamine	U		µg/kg	330	5.0	08/16/22	PS22H10K	08/17/22 13:03	S622H17A	ALS
55. Di-n-octyl Phthalate	U		µg/kg	330	5.0	08/16/22	PS22H10K	08/17/22 13:03	S622H17A	ALS
56. 2,2'-Oxybis(1-chloropropane)	U		µg/kg	330	5.0	08/16/22	PS22H10K	08/17/22 13:03	S622H17A	ALS
57. Pentachlorophenol	U	L-Y1	µg/kg	4200	5.0	08/16/22	PS22H10K	08/17/22 13:03	S622H17A	ALS
58. Phenanthrene	U		µg/kg	330	5.0	08/16/22	PS22H10K	08/17/22 13:03	S622H17A	ALS
59. Phenol	U		µg/kg	330	5.0	08/16/22	PS22H10K	08/17/22 13:03	S622H17A	ALS
60. Pyrene	U		µg/kg	330	5.0	08/16/22	PS22H10K	08/17/22 13:03	S622H17A	ALS
61. Pyridine	U		µg/kg	330	5.0	08/16/22	PS22H10K	08/17/22 13:03	S622H17A	ALS
‡ 62. 1,2,4-Trichlorobenzene	U		µg/kg	330	5.0	08/16/22	PS22H10K	08/17/22 13:03	S622H17A	ALS

Fibertec environmental services

Analytical Laboratory Report
Laboratory Project Number: A10144
Laboratory Sample Number: A10144-003

Order: A10144
Date: 08/23/22

Client Identification:	**AKT Peerless Environ. Svcs, Inc. - Farm. Hills**	Sample Description:	**Location B**	Chain of Custody:	**206311**
Client Project Name:	**13038F-3-20**	Sample No:		Collect Date:	**08/05/22**
Client Project No:	**13038F-3-20**	Sample Matrix:	**Soil/Solid**	Collect Time:	**10:49**

Sample Comments: **Soil results have been calculated and reported on a dry weight basis unless otherwise noted.**

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable ‡: Parameter not included in NELAC Scope of Analysis.

Base/Neutral/Acid Semivolatiles by GC/MS **Aliquot ID: A10144-003** **Matrix: Soil/Solid**
Method: EPA 3550C/EPA 8270E **Description: Location B**

						Preparation		Analysis		
Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	P. Date	P. Batch	A. Date	A. Batch	Init.
63. 2,4,5-Trichlorophenol	U		µg/kg	330	5.0	08/16/22	PS22H10K	08/17/22 13:03	S622H17A	ALS
64. 2,4,6-Trichlorophenol	U		µg/kg	330	5.0	08/16/22	PS22H10K	08/17/22 13:03	S622H17A	ALS

Client Identification:	**AKT Peerless Environ. Svcs, Inc. - Farm. Hills**	Sample Description:	**Location B**	Chain of Custody:	**206311**
Client Project Name:	**13038F-3-20**	Sample No:		Collect Date:	**08/05/22**
Client Project No:	**13038F-3-20**	Sample Matrix:	**Surface Water**	Collect Time:	**10:36**

Sample Comments:

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable ‡: Parameter not included in NELAC Scope of Analysis.

Michigan 10 Elements by ICP/MS, Dissolved **Aliquot ID: A10144-004C** **Matrix: Surface Water**
Method: EPA 0200.8 (Dissolved)/EPA 0200.8 **Description: Location B**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation P. Date	Preparation P. Batch	Analysis A. Date	Analysis A. Batch	Init.
1. Arsenic	U		mg/L	0.0050	10	08/09/22	PT22H09B	08/09/22	T422H09B	CJA
2. Barium	U		mg/L	0.10	10	08/09/22	PT22H09B	08/09/22	T422H09B	CJA
3. Cadmium	U		mg/L	0.0010	10	08/09/22	PT22H09B	08/09/22	T422H09B	CJA
4. Chromium	U		mg/L	0.010	10	08/09/22	PT22H09B	08/09/22	T422H09B	CJA
5. Copper	U		mg/L	0.0040	10	08/09/22	PT22H09B	08/09/22	T422H09B	CJA
6. Lead	U		mg/L	0.0030	10	08/09/22	PT22H09B	08/09/22	T422H09B	CJA
7. Selenium	U		mg/L	0.0050	10	08/09/22	PT22H09B	08/09/22	T422H09B	CJA
8. Silver	U		mg/L	0.00020	10	08/09/22	PT22H09B	08/09/22	T422H09B	CJA
9. Zinc	U		mg/L	0.050	10	08/09/22	PT22H09B	08/09/22	T422H09B	CJA

Mercury by CVAAS, Dissolved **Aliquot ID: A10144-004C** **Matrix: Surface Water**
Method: EPA 0245.1 **Description: Location B**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation P. Date	Preparation P. Batch	Analysis A. Date	Analysis A. Batch	Init.
1. Mercury	U		mg/L	0.00020	1.0	08/10/22	PM22H10B	08/10/22	M722H10A	JLH

Polychlorinated Biphenyls (PCBs) **Aliquot ID: A10144-004** **Matrix: Surface Water**
Method: EPA 0608.3 **Description: Location B**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation P. Date	Preparation P. Batch	Analysis A. Date	Analysis A. Batch	Init.
1. Aroclor-1016	U		mg/L	0.000200	1.0	08/09/22	PS22H09G	08/10/22 14:35	SO22H10A	TKT
2. Aroclor-1221	U		mg/L	0.000200	1.0	08/09/22	PS22H09G	08/10/22 14:35	SO22H10A	TKT
3. Aroclor-1232	U		mg/L	0.000200	1.0	08/09/22	PS22H09G	08/10/22 14:35	SO22H10A	TKT
4. Aroclor-1242	U		mg/L	0.000200	1.0	08/09/22	PS22H09G	08/10/22 14:35	SO22H10A	TKT
5. Aroclor-1248	U		mg/L	0.000200	1.0	08/09/22	PS22H09G	08/10/22 14:35	SO22H10A	TKT
6. Aroclor-1254	U		mg/L	0.000200	1.0	08/09/22	PS22H09G	08/10/22 14:35	SO22H10A	TKT
7. Aroclor-1260	U		mg/L	0.000200	1.0	08/09/22	PS22H09G	08/10/22 14:35	SO22H10A	TKT
‡ 8. Aroclor-1262	U		mg/L	0.000200	1.0	08/09/22	PS22H09G	08/10/22 14:35	SO22H10A	TKT
‡ 9. Aroclor-1268	U		mg/L	0.000200	1.0	08/09/22	PS22H09G	08/10/22 14:35	SO22H10A	TKT

Organochlorine Pesticides **Aliquot ID: A10144-004** **Matrix: Surface Water**
Method: EPA 0608.3 **Description: Location B**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation P. Date	Preparation P. Batch	Analysis A. Date	Analysis A. Batch	Init.
1. Aldrin	U		mg/L	0.0000100	1.0	08/09/22	PS22H09G	08/09/22 18:13	SO22H09C	TKT

Client Identification:	**AKT Peerless Environ. Svcs, Inc. - Farm. Hills**	Sample Description:	**Location B**	Chain of Custody:	**206311**
Client Project Name:	**13038F-3-20**	Sample No:		Collect Date:	**08/05/22**
Client Project No:	**13038F-3-20**	Sample Matrix:	**Surface Water**	Collect Time:	**10:36**

Sample Comments:

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable ‡: Parameter not included in NELAC Scope of Analysis.

Organochlorine Pesticides **Aliquot ID: A10144-004** **Matrix: Surface Water**
Method: EPA 0608.3 **Description: Location B**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation P. Date	Preparation P. Batch	Analysis A. Date	Analysis A. Batch	Init.
2. alpha-BHC	U		mg/L	0.0000100	1.0	08/09/22	PS22H09G	08/09/22 18:13	SO22H09C	TKT
3. beta-BHC	U	L+	mg/L	0.0000100	1.0	08/09/22	PS22H09G	08/09/22 18:13	SO22H09C	TKT
4. delta-BHC	U	L+	mg/L	0.0000100	1.0	08/09/22	PS22H09G	08/09/22 18:13	SO22H09C	TKT
5. gamma-BHC	U		mg/L	0.0000100	1.0	08/09/22	PS22H09G	08/09/22 18:13	SO22H09C	TKT
6. Chlordane	U		mg/L	0.0000500	1.0	08/09/22	PS22H09G	08/09/22 18:13	SO22H09C	TKT
7. 4,4'-DDD	U		mg/L	0.0000200	1.0	08/09/22	PS22H09G	08/09/22 18:13	SO22H09C	TKT
8. 4,4'-DDE	U		mg/L	0.0000200	1.0	08/09/22	PS22H09G	08/09/22 18:13	SO22H09C	TKT
9. 4,4'-DDT	U	L+	mg/L	0.0000200	1.0	08/09/22	PS22H09G	08/09/22 18:13	SO22H09C	TKT
10. Dieldrin	U		mg/L	0.0000200	1.0	08/09/22	PS22H09G	08/09/22 18:13	SO22H09C	TKT
11. Endosulfan I	U		mg/L	0.000500	1.0	08/09/22	PS22H09G	08/09/22 18:13	SO22H09C	TKT
12. Endosulfan II	U		mg/L	0.0000200	1.0	08/09/22	PS22H09G	08/09/22 18:13	SO22H09C	TKT
13. Endosulfan Sulfate	U		mg/L	0.0000500	1.0	08/09/22	PS22H09G	08/09/22 18:13	SO22H09C	TKT
14. Endrin	U		mg/L	0.0000200	1.0	08/09/22	PS22H09G	08/09/22 18:13	SO22H09C	TKT
15. Endrin Aldehyde	U		mg/L	0.0000200	1.0	08/09/22	PS22H09G	08/09/22 18:13	SO22H09C	TKT
16. Heptachlor	U		mg/L	0.0000100	1.0	08/09/22	PS22H09G	08/09/22 18:13	SO22H09C	TKT
17. Heptachlor Epoxide	U		mg/L	0.0000100	1.0	08/09/22	PS22H09G	08/09/22 18:13	SO22H09C	TKT
18. Methoxychlor	U	L+	mg/L	0.000500	1.0	08/09/22	PS22H09G	08/09/22 18:13	SO22H09C	TKT
19. Toxaphene	U		mg/L	0.00100	1.0	08/09/22	PS22H09G	08/09/22 18:13	SO22H09C	TKT

Organochlorine Herbicides **Aliquot ID: A10144-004** **Matrix: Surface Water**
Method: EPA 0615 **Description: Location B**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation P. Date	Preparation P. Batch	Analysis A. Date	Analysis A. Batch	Init.
‡ 1. 2,4-D	U	V+	µg/L	10	5.0	08/09/22	PS22H09H	08/10/22 19:18	SC22H10A	TKT
‡ 2. Dalapon	U	V+	µg/L	10	5.0	08/09/22	PS22H09H	08/10/22 19:18	SC22H10A	TKT
‡ 3. 2,4-DB	U		µg/L	10	5.0	08/09/22	PS22H09H	08/10/22 19:18	SC22H10A	TKT
‡ 4. Dicamba	U	V+	µg/L	1.0	5.0	08/09/22	PS22H09H	08/10/22 19:18	SC22H10A	TKT
‡ 5. Dichlorprop	U		µg/L	10	5.0	08/09/22	PS22H09H	08/10/22 19:18	SC22H10A	TKT
‡ 6. Dinoseb	U	V+	µg/L	5.0	5.0	08/09/22	PS22H09H	08/10/22 19:18	SC22H10A	TKT
‡ 7. 2,4,5-T	U		µg/L	1.0	5.0	08/09/22	PS22H09H	08/10/22 19:18	SC22H10A	TKT
‡ 8. 2,4,5-TP	U		µg/L	1.0	5.0	08/09/22	PS22H09H	08/10/22 19:18	SC22H10A	TKT

Fibertec environmental services

Analytical Laboratory Report
Laboratory Project Number: A10144
Laboratory Sample Number: A10144-004

Order: A10144
Date: 08/23/22

Client Identification:	**AKT Peerless Environ. Svcs, Inc. - Farm. Hills**	Sample Description:	**Location B**	Chain of Custody:	**206311**
Client Project Name:	**13038F-3-20**	Sample No:		Collect Date:	**08/05/22**
Client Project No:	**13038F-3-20**	Sample Matrix:	**Surface Water**	Collect Time:	**10:36**

Sample Comments:

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable ‡: Parameter not included in NELAC Scope of Analysis.

Volatile Organic Compounds (VOCs) by GC/MS **Aliquot ID: A10144-004B** **Matrix: Surface Water**
Method: EPA 0624.1 **Description: Location B**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation P. Date	Preparation P. Batch	Analysis A. Date	Analysis A. Batch	Init.
1. Acetone	U		mg/L	0.0500	1.0	08/12/22	VM22H12A	08/12/22 19:22	VM22H12A	SNC
2. Acrylonitrile	U		mg/L	0.00200	1.0	08/12/22	VM22H12A	08/12/22 19:22	VM22H12A	SNC
3. Benzene	U		mg/L	0.00100	1.0	08/12/22	VM22H12A	08/12/22 19:22	VM22H12A	SNC
‡ 4. Bromobenzene	U		mg/L	0.00100	1.0	08/12/22	VM22H12A	08/12/22 19:22	VM22H12A	SNC
‡ 5. Bromochloromethane	U		mg/L	0.00100	1.0	08/12/22	VM22H12A	08/12/22 19:22	VM22H12A	SNC
6. Bromodichloromethane	U		mg/L	0.00100	1.0	08/12/22	VM22H12A	08/12/22 19:22	VM22H12A	SNC
7. Bromoform	U		mg/L	0.00100	1.0	08/12/22	VM22H12A	08/12/22 19:22	VM22H12A	SNC
8. Bromomethane	U		mg/L	0.00500	1.0	08/12/22	VM22H12A	08/12/22 19:22	VM22H12A	SNC
9. 2-Butanone	U		mg/L	0.0250	1.0	08/12/22	VM22H12A	08/12/22 19:22	VM22H12A	SNC
‡ 10. n-Butylbenzene	U		mg/L	0.00100	1.0	08/12/22	VM22H12A	08/12/22 19:22	VM22H12A	SNC
‡ 11. sec-Butylbenzene	U		mg/L	0.00100	1.0	08/12/22	VM22H12A	08/12/22 19:22	VM22H12A	SNC
‡ 12. tert-Butylbenzene	U		mg/L	0.00100	1.0	08/12/22	VM22H12A	08/12/22 19:22	VM22H12A	SNC
‡ 13. Carbon Disulfide	U		mg/L	0.00500	1.0	08/12/22	VM22H12A	08/12/22 19:22	VM22H12A	SNC
14. Carbon Tetrachloride	U	V+	mg/L	0.00100	1.0	08/12/22	VM22H12A	08/12/22 19:22	VM22H12A	SNC
15. Chlorobenzene	U		mg/L	0.00100	1.0	08/12/22	VM22H12A	08/12/22 19:22	VM22H12A	SNC
16. Chloroethane	U		mg/L	0.00500	1.0	08/12/22	VM22H12A	08/12/22 19:22	VM22H12A	SNC
17. Chloroform	U		mg/L	0.00100	1.0	08/12/22	VM22H12A	08/12/22 19:22	VM22H12A	SNC
18. Chloromethane	U		mg/L	0.00500	1.0	08/12/22	VM22H12A	08/12/22 19:22	VM22H12A	SNC
‡ 19. 2-Chlorotoluene	U		mg/L	0.00500	1.0	08/12/22	VM22H12A	08/12/22 19:22	VM22H12A	SNC
‡ 20. 1,2-Dibromo-3-chloropropane (SIM)	U		mg/L	0.00100	1.0	08/12/22	VM22H12A	08/12/22 19:22	VM22H12A	SNC
21. Dibromochloromethane	U	V+	mg/L	0.00500	1.0	08/12/22	VM22H12A	08/12/22 19:22	VM22H12A	SNC
‡ 22. Dibromomethane	U		mg/L	0.00500	1.0	08/12/22	VM22H12A	08/12/22 19:22	VM22H12A	SNC
23. 1,2-Dichlorobenzene	U		mg/L	0.00100	1.0	08/12/22	VM22H12A	08/12/22 19:22	VM22H12A	SNC
24. 1,3-Dichlorobenzene	U		mg/L	0.00100	1.0	08/12/22	VM22H12A	08/12/22 19:22	VM22H12A	SNC
25. 1,4-Dichlorobenzene	U		mg/L	0.00100	1.0	08/12/22	VM22H12A	08/12/22 19:22	VM22H12A	SNC
‡ 26. Dichlorodifluoromethane	U		mg/L	0.00500	1.0	08/12/22	VM22H12A	08/12/22 19:22	VM22H12A	SNC
27. 1,1-Dichloroethane	U		mg/L	0.00100	1.0	08/12/22	VM22H12A	08/12/22 19:22	VM22H12A	SNC
28. 1,2-Dichloroethane	U		mg/L	0.00100	1.0	08/12/22	VM22H12A	08/12/22 19:22	VM22H12A	SNC
29. 1,1-Dichloroethene	U		mg/L	0.00100	1.0	08/12/22	VM22H12A	08/12/22 19:22	VM22H12A	SNC
30. cis-1,2-Dichloroethene	U		mg/L	0.00100	1.0	08/12/22	VM22H12A	08/12/22 19:22	VM22H12A	SNC
31. trans-1,2-Dichloroethene	U		mg/L	0.00100	1.0	08/12/22	VM22H12A	08/12/22 19:22	VM22H12A	SNC
32. 1,2-Dichloropropane	U		mg/L	0.00100	1.0	08/12/22	VM22H12A	08/12/22 19:22	VM22H12A	SNC
33. cis-1,3-Dichloropropene	U		mg/L	0.000500	1.0	08/12/22	VM22H12A	08/12/22 19:22	VM22H12A	SNC
34. trans-1,3-Dichloropropene	U		mg/L	0.000500	1.0	08/12/22	VM22H12A	08/12/22 19:22	VM22H12A	SNC
35. Ethylbenzene	U		mg/L	0.00100	1.0	08/12/22	VM22H12A	08/12/22 19:22	VM22H12A	SNC
36. Ethylene Dibromide	U		mg/L	0.00100	1.0	08/12/22	VM22H12A	08/12/22 19:22	VM22H12A	SNC
‡ 37. 2-Hexanone	U		mg/L	0.0500	1.0	08/12/22	VM22H12A	08/12/22 19:22	VM22H12A	SNC

Fibertec environmental services

Analytical Laboratory Report
Laboratory Project Number: A10144
Laboratory Sample Number: A10144-004

Order: A10144
Date: 08/23/22

Client Identification:	**AKT Peerless Environ. Svcs, Inc. - Farm. Hills**	Sample Description:	**Location B**	Chain of Custody:	**206311**
Client Project Name:	**13038F-3-20**	Sample No:		Collect Date:	**08/05/22**
Client Project No:	**13038F-3-20**	Sample Matrix:	**Surface Water**	Collect Time:	**10:36**

Sample Comments:

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable ‡: Parameter not included in NELAC Scope of Analysis.

Volatile Organic Compounds (VOCs) by GC/MS **Aliquot ID: A10144-004B** **Matrix: Surface Water**
Method: EPA 0624.1 **Description: Location B**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation P. Date	Preparation P. Batch	Analysis A. Date	Analysis A. Batch	Init.
‡ 38. Isopropylbenzene	U		mg/L	0.00500	1.0	08/12/22	VM22H12A	08/12/22 19:22	VM22H12A	SNC
‡ 39. 4-Methyl-2-pentanone	U		mg/L	0.0500	1.0	08/12/22	VM22H12A	08/12/22 19:22	VM22H12A	SNC
40. Methylene Chloride	U		mg/L	0.00500	1.0	08/12/22	VM22H12A	08/12/22 19:22	VM22H12A	SNC
‡ 41. 2-Methylnaphthalene	U		mg/L	0.00500	1.0	08/12/22	VM22H12A	08/12/22 19:22	VM22H12A	SNC
42. MTBE	U		mg/L	0.00500	1.0	08/12/22	VM22H12A	08/12/22 19:22	VM22H12A	SNC
43. Naphthalene	U		mg/L	0.00500	1.0	08/12/22	VM22H12A	08/12/22 19:22	VM22H12A	SNC
‡ 44. n-Propylbenzene	U		mg/L	0.00100	1.0	08/12/22	VM22H12A	08/12/22 19:22	VM22H12A	SNC
‡ 45. Styrene	U		mg/L	0.00100	1.0	08/12/22	VM22H12A	08/12/22 19:22	VM22H12A	SNC
‡ 46. 1,1,1,2-Tetrachloroethane	U		mg/L	0.00100	1.0	08/12/22	VM22H12A	08/12/22 19:22	VM22H12A	SNC
47. 1,1,2,2-Tetrachloroethane	U		mg/L	0.00100	1.0	08/12/22	VM22H12A	08/12/22 19:22	VM22H12A	SNC
48. Tetrachloroethene	U		mg/L	0.00100	1.0	08/12/22	VM22H12A	08/12/22 19:22	VM22H12A	SNC
49. Toluene	U		mg/L	0.00100	1.0	08/12/22	VM22H12A	08/12/22 19:22	VM22H12A	SNC
‡ 50. 1,2,4-Trichlorobenzene	U		mg/L	0.00500	1.0	08/12/22	VM22H12A	08/12/22 19:22	VM22H12A	SNC
51. 1,1,1-Trichloroethane	U		mg/L	0.00100	1.0	08/12/22	VM22H12A	08/12/22 19:22	VM22H12A	SNC
52. 1,1,2-Trichloroethane	U		mg/L	0.00100	1.0	08/12/22	VM22H12A	08/12/22 19:22	VM22H12A	SNC
53. Trichloroethene	U		mg/L	0.00100	1.0	08/12/22	VM22H12A	08/12/22 19:22	VM22H12A	SNC
54. Trichlorofluoromethane	U		mg/L	0.00100	1.0	08/12/22	VM22H12A	08/12/22 19:22	VM22H12A	SNC
‡ 55. 1,2,3-Trichloropropane	U		mg/L	0.00100	1.0	08/12/22	VM22H12A	08/12/22 19:22	VM22H12A	SNC
‡ 56. 1,2,3-Trimethylbenzene	U		mg/L	0.00100	1.0	08/12/22	VM22H12A	08/12/22 19:22	VM22H12A	SNC
‡ 57. 1,2,4-Trimethylbenzene	U		mg/L	0.00100	1.0	08/12/22	VM22H12A	08/12/22 19:22	VM22H12A	SNC
‡ 58. 1,3,5-Trimethylbenzene	U		mg/L	0.00100	1.0	08/12/22	VM22H12A	08/12/22 19:22	VM22H12A	SNC
59. Vinyl Chloride	U		mg/L	0.00100	1.0	08/12/22	VM22H12A	08/12/22 19:22	VM22H12A	SNC
60. m&p-Xylene	U		mg/L	0.00200	1.0	08/12/22	VM22H12A	08/12/22 19:22	VM22H12A	SNC
61. o-Xylene	U		mg/L	0.00100	1.0	08/12/22	VM22H12A	08/12/22 19:22	VM22H12A	SNC
62. Xylenes	U		mg/L	0.00300	1.0	08/12/22	VM22H12A	08/12/22 19:22	VM22H12A	SNC

Base/Neutral/Acid Semivolatiles by GC/MS **Aliquot ID: A10144-004** **Matrix: Surface Water**
Method: EPA 0625.1 **Description: Location B**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation P. Date	Preparation P. Batch	Analysis A. Date	Analysis A. Batch	Init.
1. Acenaphthene	U		µg/L	5.0	1.0	08/11/22	PS22H11F	08/17/22 11:45	S622H17A	ALS
2. Acenaphthylene	U		µg/L	5.0	1.0	08/11/22	PS22H11F	08/17/22 11:45	S622H17A	ALS
‡ 3. Aniline	U		µg/L	4.0	1.0	08/11/22	PS22H11F	08/17/22 11:45	S622H17A	ALS
4. Anthracene	U		µg/L	5.0	1.0	08/11/22	PS22H11F	08/17/22 11:45	S622H17A	ALS
‡ 5. Azobenzene	U		µg/L	5.0	1.0	08/11/22	PS22H11F	08/17/22 11:45	S622H17A	ALS
6. Benzo(a)anthracene	U		µg/L	1.0	1.0	08/11/22	PS22H11F	08/17/22 11:45	S622H17A	ALS

Client Identification:	**AKT Peerless Environ. Svcs, Inc. - Farm. Hills**	Sample Description:	**Location B**	Chain of Custody:	**206311**
Client Project Name:	**13038F-3-20**	Sample No:		Collect Date:	**08/05/22**
Client Project No:	**13038F-3-20**	Sample Matrix:	**Surface Water**	Collect Time:	**10:36**

Sample Comments:

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable ‡: Parameter not included in NELAC Scope of Analysis.

Base/Neutral/Acid Semivolatiles by GC/MS **Aliquot ID: A10144-004** **Matrix: Surface Water**
Method: EPA 0625.1 **Description: Location B**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation P. Date	Preparation P. Batch	Analysis A. Date	Analysis A. Batch	Init.
7. Benzo(a)pyrene	U		µg/L	1.0	1.0	08/11/22	PS22H11F	08/17/22 11:45	S622H17A	ALS
8. Benzo(b)fluoranthene	U		µg/L	1.0	1.0	08/11/22	PS22H11F	08/17/22 11:45	S622H17A	ALS
9. Benzo(ghi)perylene	U		µg/L	1.0	1.0	08/11/22	PS22H11F	08/17/22 11:45	S622H17A	ALS
10. Benzo(k)fluoranthene	U		µg/L	1.0	1.0	08/11/22	PS22H11F	08/17/22 11:45	S622H17A	ALS
‡ 11. Benzyl Alcohol	U		µg/L	5.0	1.0	08/11/22	PS22H11F	08/17/22 11:45	S622H17A	ALS
12. Bis(2-chloroethoxy)methane	U		µg/L	5.0	1.0	08/11/22	PS22H11F	08/17/22 11:45	S622H17A	ALS
13. Bis(2-chloroethyl)ether	U		µg/L	1.0	1.0	08/11/22	PS22H11F	08/17/22 11:45	S622H17A	ALS
14. Bis(2-ethylhexyl)phthalate	U		µg/L	5.0	1.0	08/11/22	PS22H11F	08/17/22 11:45	S622H17A	ALS
15. 4-Bromophenyl Phenylether	U		µg/L	5.0	1.0	08/11/22	PS22H11F	08/17/22 11:45	S622H17A	ALS
16. Butyl Benzyl Phthalate	U		µg/L	5.0	1.0	08/11/22	PS22H11F	08/17/22 11:45	S622H17A	ALS
17. Di-n-butyl Phthalate	U		µg/L	5.0	1.0	08/11/22	PS22H11F	08/17/22 11:45	S622H17A	ALS
‡ 18. Carbazole	U		µg/L	5.0	1.0	08/11/22	PS22H11F	08/17/22 11:45	S622H17A	ALS
19. 4-Chloro-3-methylphenol	U		µg/L	5.0	1.0	08/11/22	PS22H11F	08/17/22 11:45	S622H17A	ALS
20. 2-Chloronaphthalene	U		µg/L	5.0	1.0	08/11/22	PS22H11F	08/17/22 11:45	S622H17A	ALS
21. 2-Chlorophenol	U		µg/L	5.0	1.0	08/11/22	PS22H11F	08/17/22 11:45	S622H17A	ALS
22. 4-Chlorophenyl Phenylether	U		µg/L	5.0	1.0	08/11/22	PS22H11F	08/17/22 11:45	S622H17A	ALS
23. Chrysene	U		µg/L	1.0	1.0	08/11/22	PS22H11F	08/17/22 11:45	S622H17A	ALS
24. Dibenzo(a,h)anthracene	U		µg/L	2.0	1.0	08/11/22	PS22H11F	08/17/22 11:45	S622H17A	ALS
‡ 25. Dibenzofuran	U		µg/L	4.0	1.0	08/11/22	PS22H11F	08/17/22 11:45	S622H17A	ALS
26. 2,4-Dichlorophenol	U		µg/L	5.0	1.0	08/11/22	PS22H11F	08/17/22 11:45	S622H17A	ALS
27. Diethyl Phthalate	U		µg/L	5.0	1.0	08/11/22	PS22H11F	08/17/22 11:45	S622H17A	ALS
28. 2,4-Dimethylphenol	U		µg/L	5.0	1.0	08/11/22	PS22H11F	08/17/22 11:45	S622H17A	ALS
29. Dimethyl Phthalate	U		µg/L	5.0	1.0	08/11/22	PS22H11F	08/17/22 11:45	S622H17A	ALS
30. 2,4-Dinitrophenol	U	L-*	µg/L	20	1.0	08/11/22	PS22H11F	08/17/22 11:45	S622H17A	ALS
‡ 31. 2,4-Dinitrotoluene	U		µg/L	5.0	1.0	08/11/22	PS22H11F	08/17/22 11:45	S622H17A	ALS
‡ 32. 2,6-Dinitrotoluene	U		µg/L	5.0	1.0	08/11/22	PS22H11F	08/17/22 11:45	S622H17A	ALS
33. Fluoranthene	U		µg/L	1.0	1.0	08/11/22	PS22H11F	08/17/22 11:45	S622H17A	ALS
34. Fluorene	U		µg/L	5.0	1.0	08/11/22	PS22H11F	08/17/22 11:45	S622H17A	ALS
35. Hexachlorobenzene	U		µg/L	5.0	1.0	08/11/22	PS22H11F	08/17/22 11:45	S622H17A	ALS
36. Hexachlorobutadiene	U		µg/L	5.0	1.0	08/11/22	PS22H11F	08/17/22 11:45	S622H17A	ALS
37. Hexachlorocyclopentadiene	U		µg/L	5.0	1.0	08/11/22	PS22H11F	08/17/22 11:45	S622H17A	ALS
38. Hexachloroethane	U		µg/L	5.0	1.0	08/11/22	PS22H11F	08/17/22 11:45	S622H17A	ALS
39. Indeno(1,2,3-cd)pyrene	U		µg/L	2.0	1.0	08/11/22	PS22H11F	08/17/22 11:45	S622H17A	ALS
‡ 40. Isophorone	U		µg/L	5.0	1.0	08/11/22	PS22H11F	08/17/22 11:45	S622H17A	ALS
41. 2-Methyl-4,6-dinitrophenol	U		µg/L	20	1.0	08/11/22	PS22H11F	08/17/22 11:45	S622H17A	ALS
‡ 42. 2-Methylnaphthalene	U		µg/L	5.0	1.0	08/11/22	PS22H11F	08/17/22 11:45	S622H17A	ALS

Client Identification:	**AKT Peerless Environ. Svcs, Inc. - Farm. Hills**	Sample Description:	**Location B**	Chain of Custody:	**206311**
Client Project Name:	**13038F-3-20**	Sample No:		Collect Date:	**08/05/22**
Client Project No:	**13038F-3-20**	Sample Matrix:	**Surface Water**	Collect Time:	**10:36**

Sample Comments:

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable ‡: Parameter not included in NELAC Scope of Analysis.

Base/Neutral/Acid Semivolatiles by GC/MS **Aliquot ID: A10144-004** **Matrix: Surface Water**
Method: EPA 0625.1 **Description: Location B**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation P. Date	Preparation P. Batch	Analysis A. Date	Analysis A. Batch	Init.
43. 2-Methylphenol	U		µg/L	5.0	1.0	08/11/22	PS22H11F	08/17/22 11:45	S622H17A	ALS
‡ 44. 3&4-Methylphenol	U		µg/L	10	1.0	08/11/22	PS22H11F	08/17/22 11:45	S622H17A	ALS
45. Naphthalene	U		µg/L	5.0	1.0	08/11/22	PS22H11F	08/17/22 11:45	S622H17A	ALS
‡ 46. 2-Nitroaniline	U		µg/L	20	1.0	08/11/22	PS22H11F	08/17/22 11:45	S622H17A	ALS
‡ 47. 3-Nitroaniline	U		µg/L	20	1.0	08/11/22	PS22H11F	08/17/22 11:45	S622H17A	ALS
‡ 48. 4-Nitroaniline	U		µg/L	20	1.0	08/11/22	PS22H11F	08/17/22 11:45	S622H17A	ALS
49. Nitrobenzene	U		µg/L	3.0	1.0	08/11/22	PS22H11F	08/17/22 11:45	S622H17A	ALS
50. 2-Nitrophenol	U		µg/L	5.0	1.0	08/11/22	PS22H11F	08/17/22 11:45	S622H17A	ALS
51. 4-Nitrophenol	U	L-	µg/L	20	1.0	08/11/22	PS22H11F	08/17/22 11:45	S622H17A	ALS
52. N-Nitrosodimethylamine	U		µg/L	5.0	1.0	08/11/22	PS22H11F	08/17/22 11:45	S622H17A	ALS
53. N-Nitrosodi-n-propylamine	U		µg/L	5.0	1.0	08/11/22	PS22H11F	08/17/22 11:45	S622H17A	ALS
54. N-Nitrosodiphenylamine	U		µg/L	5.0	1.0	08/11/22	PS22H11F	08/17/22 11:45	S622H17A	ALS
55. Di-n-octyl Phthalate	U		µg/L	5.0	1.0	08/11/22	PS22H11F	08/17/22 11:45	S622H17A	ALS
56. 2,2'-Oxybis(1-chloropropane)	U		µg/L	5.0	1.0	08/11/22	PS22H11F	08/17/22 11:45	S622H17A	ALS
57. Pentachlorophenol	U	L-	µg/L	20	1.0	08/11/22	PS22H11F	08/17/22 11:45	S622H17A	ALS
58. Phenanthrene	U		µg/L	2.0	1.0	08/11/22	PS22H11F	08/17/22 11:45	S622H17A	ALS
59. Phenol	U		µg/L	5.0	1.0	08/11/22	PS22H11F	08/17/22 11:45	S622H17A	ALS
60. Pyrene	U		µg/L	5.0	1.0	08/11/22	PS22H11F	08/17/22 11:45	S622H17A	ALS
61. Pyridine	U		µg/L	5.0	1.0	08/11/22	PS22H11F	08/17/22 11:45	S622H17A	ALS
62. 1,2,4-Trichlorobenzene	U		µg/L	5.0	1.0	08/11/22	PS22H11F	08/17/22 11:45	S622H17A	ALS
63. 2,4,5-Trichlorophenol	U		µg/L	5.0	1.0	08/11/22	PS22H11F	08/17/22 11:45	S622H17A	ALS
64. 2,4,6-Trichlorophenol	U		µg/L	4.0	1.0	08/11/22	PS22H11F	08/17/22 11:45	S622H17A	ALS

Chromium, Hexavalent, Dissolved **Aliquot ID: A10144-004A** **Matrix: Surface Water**
Method: SM 3500-Cr B-2011 **Description: Location B**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation P. Date	Preparation P. Batch	Analysis A. Date	Analysis A. Batch	Init.
1. Chromium VI	U		mg/L	0.0050	1.0	NA	NA	08/05/22 16:23	W322H05A	TDJ

Fibertec environmental services

Analytical Laboratory Report
Laboratory Project Number: A10144
Laboratory Sample Number: A10144-005

Order: A10144
Date: 08/23/22

Client Identification:	**AKT Peerless Environ. Svcs, Inc. - Farm. Hills**	Sample Description:	**Location C**	Chain of Custody:	**206311**
Client Project Name:	**13038F-3-20**	Sample No:		Collect Date:	**08/05/22**
Client Project No:	**13038F-3-20**	Sample Matrix:	**Soil/Solid**	Collect Time:	**11:32**

Sample Comments: **Soil results have been calculated and reported on a dry weight basis unless otherwise noted.**

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable ‡: Parameter not included in NELAC Scope of Analysis.

Water (Moisture) Content Dried at 105 ± 5°C **Aliquot ID: A10144-005** **Matrix: Soil/Solid**
Method: ASTM D2216-10 **Description: Location C**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation P. Date	Preparation P. Batch	Analysis A. Date	Analysis A. Batch	Init.
‡ 1. Percent Moisture (Water Content)	**26**		%	1	1.0	08/09/22	MC220809	08/10/22	MC220809	LJK

Michigan 10 Elements by ICP/MS **Aliquot ID: A10144-005** **Matrix: Soil/Solid**
Method: EPA 0200.2/EPA 6020A **Description: Location C**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation P. Date	Preparation P. Batch	Analysis A. Date	Analysis A. Batch	Init.
1. Arsenic	**5100**		µg/kg	100	20	08/11/22	PT22H11B	08/12/22	T422H12A	CJA
2. Barium	**22000**		µg/kg	1000	20	08/11/22	PT22H11B	08/12/22	T422H12A	CJA
3. Cadmium	**100**		µg/kg	50	20	08/11/22	PT22H11B	08/12/22	T422H12A	CJA
4. Chromium	**20000**		µg/kg	500	20	08/11/22	PT22H11B	08/12/22	T422H12A	CJA
5. Copper	**22000**		µg/kg	1000	20	08/11/22	PT22H11B	08/12/22	T422H12A	CJA
6. Lead	**7200**		µg/kg	1000	20	08/11/22	PT22H11B	08/12/22	T422H12A	CJA
7. Selenium	U		µg/kg	200	20	08/11/22	PT22H11B	08/12/22	T422H12A	CJA
8. Silver	U		µg/kg	100	20	08/11/22	PT22H11B	08/12/22	T422H12A	CJA
9. Zinc	**51000**		µg/kg	1000	20	08/11/22	PT22H11B	08/12/22	T422H12A	CJA

Chromium, Hexavalent **Aliquot ID: A10144-005** **Matrix: Soil/Solid**
Method: EPA 3060A/EPA 7196A **Description: Location C**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation P. Date	Preparation P. Batch	Analysis A. Date	Analysis A. Batch	Init.
1. Chromium VI	U		µg/kg	540	1.0	08/08/22	W322H08B	08/09/22	W322H08B	MJS

Mercury by CVAAS **Aliquot ID: A10144-005** **Matrix: Soil/Solid**
Method: EPA 7471B **Description: Location C**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation P. Date	Preparation P. Batch	Analysis A. Date	Analysis A. Batch	Init.
1. Mercury	U		µg/kg	50	10	08/09/22	PM22H09B	08/11/22	M722H11A	JLH

Organochlorine Pesticides **Aliquot ID: A10144-005** **Matrix: Soil/Solid**
Method: EPA 3546/EPA 8081B **Description: Location C**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation P. Date	Preparation P. Batch	Analysis A. Date	Analysis A. Batch	Init.
1. Aldrin	U		µg/kg	20	5.0	08/10/22	PS22H10B	08/11/22 09:59	SO22H11A	TKT
2. alpha-BHC	U		µg/kg	20	5.0	08/10/22	PS22H10B	08/11/22 09:59	SO22H11A	TKT

Fibertec environmental services

Analytical Laboratory Report
Laboratory Project Number: A10144
Laboratory Sample Number: A10144-005

Order: A10144
Date: 08/23/22

Client Identification:	**AKT Peerless Environ. Svcs, Inc. - Farm. Hills**	Sample Description:	**Location C**	Chain of Custody:	**206311**
Client Project Name:	**13038F-3-20**	Sample No:		Collect Date:	**08/05/22**
Client Project No:	**13038F-3-20**	Sample Matrix:	**Soil/Solid**	Collect Time:	**11:32**

Sample Comments: **Soil results have been calculated and reported on a dry weight basis unless otherwise noted.**

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable ‡: Parameter not included in NELAC Scope of Analysis.

Organochlorine Pesticides **Aliquot ID: A10144-005** **Matrix: Soil/Solid**
Method: EPA 3546/EPA 8081B **Description: Location C**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation P. Date	Preparation P. Batch	Analysis A. Date	Analysis A. Batch	Init.
3. beta-BHC	U		µg/kg	20	5.0	08/10/22	PS22H10B	08/11/22 09:59	SO22H11A	TKT
4. delta-BHC	U		µg/kg	20	5.0	08/10/22	PS22H10B	08/11/22 09:59	SO22H11A	TKT
5. gamma-BHC	U		µg/kg	20	5.0	08/10/22	PS22H10B	08/11/22 09:59	SO22H11A	TKT
6. Chlordane	U		µg/kg	25	5.0	08/10/22	PS22H10B	08/11/22 09:59	SO22H11A	TKT
7. 4,4'-DDD	U		µg/kg	20	5.0	08/10/22	PS22H10B	08/11/22 09:59	SO22H11A	TKT
8. 4,4'-DDE	U		µg/kg	20	5.0	08/10/22	PS22H10B	08/11/22 09:59	SO22H11A	TKT
9. 4,4'-DDT	U		µg/kg	20	5.0	08/10/22	PS22H10B	08/11/22 09:59	SO22H11A	TKT
10. Dieldrin	U		µg/kg	20	5.0	08/10/22	PS22H10B	08/11/22 09:59	SO22H11A	TKT
11. Endosulfan I	U	L-	µg/kg	20	5.0	08/10/22	PS22H10B	08/11/22 09:59	SO22H11A	TKT
12. Endosulfan II	U		µg/kg	20	5.0	08/10/22	PS22H10B	08/11/22 09:59	SO22H11A	TKT
13. Endosulfan Sulfate	U		µg/kg	20	5.0	08/10/22	PS22H10B	08/11/22 09:59	SO22H11A	TKT
14. Endrin	U		µg/kg	20	5.0	08/10/22	PS22H10B	08/11/22 09:59	SO22H11A	TKT
15. Endrin Aldehyde	U		µg/kg	20	5.0	08/10/22	PS22H10B	08/11/22 09:59	SO22H11A	TKT
16. Heptachlor	U		µg/kg	20	5.0	08/10/22	PS22H10B	08/11/22 09:59	SO22H11A	TKT
17. Heptachlor Epoxide	U		µg/kg	20	5.0	08/10/22	PS22H10B	08/11/22 09:59	SO22H11A	TKT
18. Methoxychlor	U	L-	µg/kg	50	5.0	08/10/22	PS22H10B	08/11/22 09:59	SO22H11A	TKT
19. Toxaphene	U		µg/kg	170	5.0	08/10/22	PS22H10B	08/11/22 09:59	SO22H11A	TKT

Polychlorinated Biphenyls (PCBs) **Aliquot ID: A10144-005** **Matrix: Soil/Solid**
Method: EPA 3546/EPA 8082A **Description: Location C**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation P. Date	Preparation P. Batch	Analysis A. Date	Analysis A. Batch	Init.
1. Aroclor-1016	U		µg/kg	100	5.0	08/10/22	PS22H10B	08/10/22 16:19	SO22H10A	TKT
2. Aroclor-1221	U		µg/kg	100	5.0	08/10/22	PS22H10B	08/10/22 16:19	SO22H10A	TKT
3. Aroclor-1232	U		µg/kg	100	5.0	08/10/22	PS22H10B	08/10/22 16:19	SO22H10A	TKT
4. Aroclor-1242	U		µg/kg	100	5.0	08/10/22	PS22H10B	08/10/22 16:19	SO22H10A	TKT
5. Aroclor-1248	U		µg/kg	100	5.0	08/10/22	PS22H10B	08/10/22 16:19	SO22H10A	TKT
6. Aroclor-1254	U		µg/kg	100	5.0	08/10/22	PS22H10B	08/10/22 16:19	SO22H10A	TKT
7. Aroclor-1260	U		µg/kg	100	5.0	08/10/22	PS22H10B	08/10/22 16:19	SO22H10A	TKT
‡ 8. Aroclor-1262	U		µg/kg	100	5.0	08/10/22	PS22H10B	08/10/22 16:19	SO22H10A	TKT
‡ 9. Aroclor-1268	U		µg/kg	100	5.0	08/10/22	PS22H10B	08/10/22 16:19	SO22H10A	TKT

Client Identification:	**AKT Peerless Environ. Svcs, Inc. - Farm. Hills**	Sample Description:	**Location C**	Chain of Custody:	**206311**
Client Project Name:	**13038F-3-20**	Sample No:		Collect Date:	**08/05/22**
Client Project No:	**13038F-3-20**	Sample Matrix:	**Soil/Solid**	Collect Time:	**11:32**

Sample Comments: **Soil results have been calculated and reported on a dry weight basis unless otherwise noted.**

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable ‡: Parameter not included in NELAC Scope of Analysis.

Organochlorine Herbicides **Aliquot ID: A10144-005** **Matrix: Soil/Solid**
Method: EPA 8151A **Description: Location C**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation P. Date	Preparation P. Batch	Analysis A. Date	Analysis A. Batch	Init.
‡ 1. 2,4-D	U		µg/kg	200	5.0	08/09/22	PS22H09E	08/11/22 01:20	SC22H10A	TKT
‡ 2. Dalapon	U		µg/kg	100	5.0	08/09/22	PS22H09E	08/11/22 01:20	SC22H10A	TKT
‡ 3. 2,4-DB	U	L+	µg/kg	200	5.0	08/09/22	PS22H09E	08/11/22 01:20	SC22H10A	TKT
‡ 4. Dicamba	U		µg/kg	100	5.0	08/09/22	PS22H09E	08/11/22 01:20	SC22H10A	TKT
‡ 5. Dichlorprop	U		µg/kg	200	5.0	08/09/22	PS22H09E	08/11/22 01:20	SC22H10A	TKT
‡ 6. Dinoseb	U	V+ L+	µg/kg	100	5.0	08/09/22	PS22H09E	08/11/22 01:20	SC22H10A	TKT
‡ 7. 2,4,5-T	U		µg/kg	200	5.0	08/09/22	PS22H09E	08/11/22 01:20	SC22H10A	TKT
‡ 8. 2,4,5-TP	U		µg/kg	200	5.0	08/09/22	PS22H09E	08/11/22 01:20	SC22H10A	TKT

Volatile Organic Compounds (VOCs) by GC/MS, 5035 **Aliquot ID: A10144-005A** **Matrix: Soil/Solid**
Method: EPA 5035A/EPA 8260D **Description: Location C**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation P. Date	Preparation P. Batch	Analysis A. Date	Analysis A. Batch	Init.
1. Acetone	U		µg/kg	1000	1.0	08/09/22	VJ22H09A	08/09/22 21:33	VJ22H09A	BRC
‡ 2. Acrylonitrile	U		µg/kg	100	1.0	08/09/22	VJ22H09A	08/09/22 21:33	VJ22H09A	BRC
3. Benzene	U		µg/kg	50	1.0	08/09/22	VJ22H09A	08/09/22 21:33	VJ22H09A	BRC
4. Bromobenzene	U		µg/kg	100	1.0	08/09/22	VJ22H09A	08/09/22 21:33	VJ22H09A	BRC
5. Bromochloromethane	U		µg/kg	100	1.0	08/09/22	VJ22H09A	08/09/22 21:33	VJ22H09A	BRC
6. Bromodichloromethane	U		µg/kg	100	1.0	08/09/22	VJ22H09A	08/09/22 21:33	VJ22H09A	BRC
7. Bromoform	U		µg/kg	100	1.0	08/09/22	VJ22H09A	08/09/22 21:33	VJ22H09A	BRC
8. Bromomethane	U		µg/kg	200	1.0	08/09/22	VJ22H09A	08/09/22 21:33	VJ22H09A	BRC
9. 2-Butanone	U		µg/kg	750	1.0	08/09/22	VJ22H09A	08/09/22 21:33	VJ22H09A	BRC
10. n-Butylbenzene	U		µg/kg	50	1.0	08/09/22	VJ22H09A	08/09/22 21:33	VJ22H09A	BRC
11. sec-Butylbenzene	U		µg/kg	50	1.0	08/09/22	VJ22H09A	08/09/22 21:33	VJ22H09A	BRC
12. tert-Butylbenzene	U		µg/kg	50	1.0	08/09/22	VJ22H09A	08/09/22 21:33	VJ22H09A	BRC
13. Carbon Disulfide	U		µg/kg	250	1.0	08/09/22	VJ22H09A	08/09/22 21:33	VJ22H09A	BRC
14. Carbon Tetrachloride	U		µg/kg	50	1.0	08/09/22	VJ22H09A	08/09/22 21:33	VJ22H09A	BRC
15. Chlorobenzene	U		µg/kg	50	1.0	08/09/22	VJ22H09A	08/09/22 21:33	VJ22H09A	BRC
16. Chloroethane	U		µg/kg	250	1.0	08/09/22	VJ22H09A	08/09/22 21:33	VJ22H09A	BRC
17. Chloroform	U		µg/kg	50	1.0	08/09/22	VJ22H09A	08/09/22 21:33	VJ22H09A	BRC
18. Chloromethane	U		µg/kg	250	1.0	08/09/22	VJ22H09A	08/09/22 21:33	VJ22H09A	BRC
19. 2-Chlorotoluene	U		µg/kg	50	1.0	08/09/22	VJ22H09A	08/09/22 21:33	VJ22H09A	BRC
‡ 20. 1,2-Dibromo-3-chloropropane (SIM)	U		µg/kg	250	1.0	08/09/22	VJ22H09A	08/09/22 21:33	VJ22H09A	BRC
21. Dibromochloromethane	U		µg/kg	100	1.0	08/09/22	VJ22H09A	08/09/22 21:33	VJ22H09A	BRC
22. Dibromomethane	U		µg/kg	250	1.0	08/09/22	VJ22H09A	08/09/22 21:33	VJ22H09A	BRC

Client Identification:	**AKT Peerless Environ. Svcs, Inc. - Farm. Hills**	Sample Description:	**Location C**	Chain of Custody:	**206311**
Client Project Name:	**13038F-3-20**	Sample No:		Collect Date:	**08/05/22**
Client Project No:	**13038F-3-20**	Sample Matrix:	**Soil/Solid**	Collect Time:	**11:32**

Sample Comments: **Soil results have been calculated and reported on a dry weight basis unless otherwise noted.**

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable ‡: Parameter not included in NELAC Scope of Analysis.

Volatile Organic Compounds (VOCs) by GC/MS, 5035 **Aliquot ID: A10144-005A** **Matrix: Soil/Solid**
Method: EPA 5035A/EPA 8260D **Description: Location C**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation P. Date	Preparation P. Batch	Analysis A. Date	Analysis A. Batch	Init.
23. 1,2-Dichlorobenzene	U		µg/kg	100	1.0	08/09/22	VJ22H09A	08/09/22 21:33	VJ22H09A	BRC
24. 1,3-Dichlorobenzene	U		µg/kg	100	1.0	08/09/22	VJ22H09A	08/09/22 21:33	VJ22H09A	BRC
25. 1,4-Dichlorobenzene	U		µg/kg	100	1.0	08/09/22	VJ22H09A	08/09/22 21:33	VJ22H09A	BRC
26. Dichlorodifluoromethane	U		µg/kg	250	1.0	08/09/22	VJ22H09A	08/09/22 21:33	VJ22H09A	BRC
27. 1,1-Dichloroethane	U		µg/kg	50	1.0	08/09/22	VJ22H09A	08/09/22 21:33	VJ22H09A	BRC
28. 1,2-Dichloroethane	U		µg/kg	50	1.0	08/09/22	VJ22H09A	08/09/22 21:33	VJ22H09A	BRC
29. 1,1-Dichloroethene	U		µg/kg	50	1.0	08/09/22	VJ22H09A	08/09/22 21:33	VJ22H09A	BRC
30. cis-1,2-Dichloroethene	U		µg/kg	50	1.0	08/09/22	VJ22H09A	08/09/22 21:33	VJ22H09A	BRC
31. trans-1,2-Dichloroethene	U		µg/kg	50	1.0	08/09/22	VJ22H09A	08/09/22 21:33	VJ22H09A	BRC
32. 1,2-Dichloropropane	U		µg/kg	50	1.0	08/09/22	VJ22H09A	08/09/22 21:33	VJ22H09A	BRC
33. cis-1,3-Dichloropropene	U		µg/kg	50	1.0	08/09/22	VJ22H09A	08/09/22 21:33	VJ22H09A	BRC
34. trans-1,3-Dichloropropene	U		µg/kg	50	1.0	08/09/22	VJ22H09A	08/09/22 21:33	VJ22H09A	BRC
35. Ethylbenzene	U		µg/kg	50	1.0	08/09/22	VJ22H09A	08/09/22 21:33	VJ22H09A	BRC
36. Ethylene Dibromide	U		µg/kg	50	1.0	08/09/22	VJ22H09A	08/09/22 21:33	VJ22H09A	BRC
37. 2-Hexanone	U		µg/kg	2500	1.0	08/09/22	VJ22H09A	08/09/22 21:33	VJ22H09A	BRC
38. Isopropylbenzene	U		µg/kg	250	1.0	08/09/22	VJ22H09A	08/09/22 21:33	VJ22H09A	BRC
39. 4-Methyl-2-pentanone	U		µg/kg	2500	1.0	08/09/22	VJ22H09A	08/09/22 21:33	VJ22H09A	BRC
40. Methylene Chloride	U		µg/kg	100	1.0	08/09/22	VJ22H09A	08/09/22 21:33	VJ22H09A	BRC
‡ 41. 2-Methylnaphthalene	U		µg/kg	330	1.0	08/09/22	VJ22H09A	08/09/22 21:33	VJ22H09A	BRC
42. MTBE	U		µg/kg	250	1.0	08/09/22	VJ22H09A	08/09/22 21:33	VJ22H09A	BRC
43. Naphthalene	U		µg/kg	330	1.0	08/09/22	VJ22H09A	08/09/22 21:33	VJ22H09A	BRC
44. n-Propylbenzene	U		µg/kg	100	1.0	08/09/22	VJ22H09A	08/09/22 21:33	VJ22H09A	BRC
45. Styrene	U		µg/kg	50	1.0	08/09/22	VJ22H09A	08/09/22 21:33	VJ22H09A	BRC
46. 1,1,1,2-Tetrachloroethane	U		µg/kg	100	1.0	08/09/22	VJ22H09A	08/09/22 21:33	VJ22H09A	BRC
47. 1,1,2,2-Tetrachloroethane	U		µg/kg	50	1.0	08/09/22	VJ22H09A	08/09/22 21:33	VJ22H09A	BRC
48. Tetrachloroethene	U		µg/kg	50	1.0	08/09/22	VJ22H09A	08/09/22 21:33	VJ22H09A	BRC
49. Toluene	U		µg/kg	50	1.0	08/09/22	VJ22H09A	08/09/22 21:33	VJ22H09A	BRC
50. 1,2,4-Trichlorobenzene	U		µg/kg	250	1.0	08/09/22	VJ22H09A	08/09/22 21:33	VJ22H09A	BRC
51. 1,1,1-Trichloroethane	U		µg/kg	50	1.0	08/09/22	VJ22H09A	08/09/22 21:33	VJ22H09A	BRC
52. 1,1,2-Trichloroethane	U		µg/kg	50	1.0	08/09/22	VJ22H09A	08/09/22 21:33	VJ22H09A	BRC
53. Trichloroethene	U		µg/kg	50	1.0	08/09/22	VJ22H09A	08/09/22 21:33	VJ22H09A	BRC
54. Trichlorofluoromethane	U		µg/kg	100	1.0	08/09/22	VJ22H09A	08/09/22 21:33	VJ22H09A	BRC
55. 1,2,3-Trichloropropane	U		µg/kg	100	1.0	08/09/22	VJ22H09A	08/09/22 21:33	VJ22H09A	BRC
‡ 56. 1,2,3-Trimethylbenzene	U		µg/kg	100	1.0	08/09/22	VJ22H09A	08/09/22 21:33	VJ22H09A	BRC
57. 1,2,4-Trimethylbenzene	U		µg/kg	100	1.0	08/09/22	VJ22H09A	08/09/22 21:33	VJ22H09A	BRC
58. 1,3,5-Trimethylbenzene	U		µg/kg	100	1.0	08/09/22	VJ22H09A	08/09/22 21:33	VJ22H09A	BRC
59. Vinyl Chloride	U		µg/kg	43	1.0	08/09/22	VJ22H09A	08/09/22 21:33	VJ22H09A	BRC

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Analytical Laboratory Report
Laboratory Project Number: A10144
Laboratory Sample Number: A10144-005

Order: A10144
Date: 08/23/22

Client Identification:	**AKT Peerless Environ. Svcs, Inc. - Farm. Hills**	Sample Description:	**Location C**	Chain of Custody:	**206311**
Client Project Name:	**13038F-3-20**	Sample No:		Collect Date:	**08/05/22**
Client Project No:	**13038F-3-20**	Sample Matrix:	**Soil/Solid**	Collect Time:	**11:32**

Sample Comments: **Soil results have been calculated and reported on a dry weight basis unless otherwise noted.**

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable ‡: Parameter not included in NELAC Scope of Analysis.

Volatile Organic Compounds (VOCs) by GC/MS, 5035 **Aliquot ID: A10144-005A** **Matrix: Soil/Solid**
Method: EPA 5035A/EPA 8260D **Description: Location C**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation P. Date	Preparation P. Batch	Analysis A. Date	Analysis A. Batch	Init.
60. m&p-Xylene	U		µg/kg	100	1.0	08/09/22	VJ22H09A	08/09/22 21:33	VJ22H09A	BRC
61. o-Xylene	U		µg/kg	50	1.0	08/09/22	VJ22H09A	08/09/22 21:33	VJ22H09A	BRC
‡ 62. Xylenes	U		µg/kg	150	1.0	08/09/22	VJ22H09A	08/09/22 21:33	VJ22H09A	BRC

Base/Neutral/Acid Semivolatiles by GC/MS **Aliquot ID: A10144-005** **Matrix: Soil/Solid**
Method: EPA 3550C/EPA 8270E **Description: Location C**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation P. Date	Preparation P. Batch	Analysis A. Date	Analysis A. Batch	Init.
1. Acenaphthene	**2700**		µg/kg	900	20	08/16/22	PS22H10K	08/17/22 12:24	S622H17A	ALS
2. Acenaphthylene	U	Y1	µg/kg	900	20	08/16/22	PS22H10K	08/17/22 12:24	S622H17A	ALS
3. Aniline	U	Y1	µg/kg	4500	20	08/16/22	PS22H10K	08/17/22 12:24	S622H17A	ALS
4. Anthracene	**4700**		µg/kg	900	20	08/16/22	PS22H10K	08/17/22 12:24	S622H17A	ALS
‡ 5. Azobenzene	U	Y1	µg/kg	900	20	08/16/22	PS22H10K	08/17/22 12:24	S622H17A	ALS
6. Benzo(a)anthracene	**13000**		µg/kg	900	20	08/16/22	PS22H10K	08/17/22 12:24	S622H17A	ALS
7. Benzo(a)pyrene	**11000**		µg/kg	900	20	08/16/22	PS22H10K	08/17/22 12:24	S622H17A	ALS
8. Benzo(b)fluoranthene	**18000**		µg/kg	900	20	08/16/22	PS22H10K	08/17/22 12:24	S622H17A	ALS
9. Benzo(ghi)perylene	**8800**		µg/kg	900	20	08/16/22	PS22H10K	08/17/22 12:24	S622H17A	ALS
10. Benzo(k)fluoranthene	**6200**		µg/kg	900	20	08/16/22	PS22H10K	08/17/22 12:24	S622H17A	ALS
11. Benzyl Alcohol	U		µg/kg	4500	20	08/16/22	PS22H10K	08/17/22 12:24	S622H17A	ALS
12. Bis(2-chloroethoxy)methane	U	Y1	µg/kg	900	20	08/16/22	PS22H10K	08/17/22 12:24	S622H17A	ALS
13. Bis(2-chloroethyl)ether	U	Y1	µg/kg	900	20	08/16/22	PS22H10K	08/17/22 12:24	S622H17A	ALS
14. Bis(2-ethylhexyl)phthalate	U	Y1	µg/kg	900	20	08/16/22	PS22H10K	08/17/22 12:24	S622H17A	ALS
15. 4-Bromophenyl Phenylether	U	Y1	µg/kg	900	20	08/16/22	PS22H10K	08/17/22 12:24	S622H17A	ALS
16. Butyl Benzyl Phthalate	U	Y1	µg/kg	4500	20	08/16/22	PS22H10K	08/17/22 12:24	S622H17A	ALS
17. Di-n-butyl Phthalate	U	Y1	µg/kg	900	20	08/16/22	PS22H10K	08/17/22 12:24	S622H17A	ALS
‡ 18. Carbazole	**4700**		µg/kg	900	20	08/16/22	PS22H10K	08/17/22 12:24	S622H17A	ALS
19. 4-Chloro-3-methylphenol	U	Y1	µg/kg	4500	20	08/16/22	PS22H10K	08/17/22 12:24	S622H17A	ALS
20. 2-Chloronaphthalene	U	Y1	µg/kg	900	20	08/16/22	PS22H10K	08/17/22 12:24	S622H17A	ALS
21. 2-Chlorophenol	U	Y1	µg/kg	900	20	08/16/22	PS22H10K	08/17/22 12:24	S622H17A	ALS
22. 4-Chlorophenyl Phenylether	U	Y1	µg/kg	900	20	08/16/22	PS22H10K	08/17/22 12:24	S622H17A	ALS
23. Chrysene	**15000**		µg/kg	900	20	08/16/22	PS22H10K	08/17/22 12:24	S622H17A	ALS
24. Dibenzo(a,h)anthracene	**1900**		µg/kg	900	20	08/16/22	PS22H10K	08/17/22 12:24	S622H17A	ALS
25. Dibenzofuran	**1700**		µg/kg	900	20	08/16/22	PS22H10K	08/17/22 12:24	S622H17A	ALS
26. 2,4-Dichlorophenol	U	Y1	µg/kg	900	20	08/16/22	PS22H10K	08/17/22 12:24	S622H17A	ALS
27. Diethyl Phthalate	U	Y1	µg/kg	900	20	08/16/22	PS22H10K	08/17/22 12:24	S622H17A	ALS
28. 2,4-Dimethylphenol	U	Y1	µg/kg	900	20	08/16/22	PS22H10K	08/17/22 12:24	S622H17A	ALS

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Analytical Laboratory Report
Laboratory Project Number: A10144
Laboratory Sample Number: A10144-005

Order: A10144
Date: 08/23/22

Client Identification:	**AKT Peerless Environ. Svcs, Inc. - Farm. Hills**	Sample Description:	**Location C**	Chain of Custody:	**206311**
Client Project Name:	**13038F-3-20**	Sample No:		Collect Date:	**08/05/22**
Client Project No:	**13038F-3-20**	Sample Matrix:	**Soil/Solid**	Collect Time:	**11:32**

Sample Comments: **Soil results have been calculated and reported on a dry weight basis unless otherwise noted.**

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable ‡: Parameter not included in NELAC Scope of Analysis.

Base/Neutral/Acid Semivolatiles by GC/MS **Aliquot ID: A10144-005** **Matrix: Soil/Solid**
Method: EPA 3550C/EPA 8270E **Description: Location C**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation P. Date	Preparation P. Batch	Analysis A. Date	Analysis A. Batch	Init.
29. Dimethyl Phthalate	U	Y1	µg/kg	900	20	08/16/22	PS22H10K	08/17/22 12:24	S622H17A	ALS
30. 2,4-Dinitrophenol	U	Y1	µg/kg	18000	20	08/16/22	PS22H10K	08/17/22 12:24	S622H17A	ALS
‡ 31. 2,4-Dinitrotoluene	U	Y1	µg/kg	900	20	08/16/22	PS22H10K	08/17/22 12:24	S622H17A	ALS
‡ 32. 2,6-Dinitrotoluene	U	Y1	µg/kg	900	20	08/16/22	PS22H10K	08/17/22 12:24	S622H17A	ALS
33. Fluoranthene	**40000**		µg/kg	900	20	08/16/22	PS22H10K	08/17/22 12:24	S622H17A	ALS
34. Fluorene	**2500**		µg/kg	900	20	08/16/22	PS22H10K	08/17/22 12:24	S622H17A	ALS
35. Hexachlorobenzene	U	Y1	µg/kg	900	20	08/16/22	PS22H10K	08/17/22 12:24	S622H17A	ALS
36. Hexachlorobutadiene	U	Y1	µg/kg	900	20	08/16/22	PS22H10K	08/17/22 12:24	S622H17A	ALS
37. Hexachlorocyclopentadiene	U	Y1	µg/kg	4500	20	08/16/22	PS22H10K	08/17/22 12:24	S622H17A	ALS
38. Hexachloroethane	U	Y1	µg/kg	900	20	08/16/22	PS22H10K	08/17/22 12:24	S622H17A	ALS
39. Indeno(1,2,3-cd)pyrene	**8100**		µg/kg	900	20	08/16/22	PS22H10K	08/17/22 12:24	S622H17A	ALS
‡ 40. Isophorone	U	Y1	µg/kg	900	20	08/16/22	PS22H10K	08/17/22 12:24	S622H17A	ALS
41. 2-Methyl-4,6-dinitrophenol	U	Y1	µg/kg	4500	20	08/16/22	PS22H10K	08/17/22 12:24	S622H17A	ALS
42. 2-Methylnaphthalene	U	Y1	µg/kg	900	20	08/16/22	PS22H10K	08/17/22 12:24	S622H17A	ALS
43. 2-Methylphenol	U	Y1	µg/kg	900	20	08/16/22	PS22H10K	08/17/22 12:24	S622H17A	ALS
‡ 44. 3&4-Methylphenol	U	Y1	µg/kg	900	20	08/16/22	PS22H10K	08/17/22 12:24	S622H17A	ALS
45. Naphthalene	U	Y1	µg/kg	900	20	08/16/22	PS22H10K	08/17/22 12:24	S622H17A	ALS
46. 2-Nitroaniline	U	Y1	µg/kg	900	20	08/16/22	PS22H10K	08/17/22 12:24	S622H17A	ALS
47. 3-Nitroaniline	U	Y1	µg/kg	900	20	08/16/22	PS22H10K	08/17/22 12:24	S622H17A	ALS
48. 4-Nitroaniline	U	Y1	µg/kg	900	20	08/16/22	PS22H10K	08/17/22 12:24	S622H17A	ALS
49. Nitrobenzene	U	Y1	µg/kg	900	20	08/16/22	PS22H10K	08/17/22 12:24	S622H17A	ALS
50. 2-Nitrophenol	U	Y1	µg/kg	900	20	08/16/22	PS22H10K	08/17/22 12:24	S622H17A	ALS
51. 4-Nitrophenol	U	L-Y1	µg/kg	18000	20	08/16/22	PS22H10K	08/17/22 12:24	S622H17A	ALS
52. N-Nitrosodimethylamine	U	Y1	µg/kg	900	20	08/16/22	PS22H10K	08/17/22 12:24	S622H17A	ALS
53. N-Nitrosodi-n-propylamine	U	Y1	µg/kg	900	20	08/16/22	PS22H10K	08/17/22 12:24	S622H17A	ALS
54. N-Nitrosodiphenylamine	U	Y1	µg/kg	900	20	08/16/22	PS22H10K	08/17/22 12:24	S622H17A	ALS
55. Di-n-octyl Phthalate	U	Y1	µg/kg	900	20	08/16/22	PS22H10K	08/17/22 12:24	S622H17A	ALS
56. 2,2'-Oxybis(1-chloropropane)	U	Y1	µg/kg	900	20	08/16/22	PS22H10K	08/17/22 12:24	S622H17A	ALS
57. Pentachlorophenol	U	L-Y1	µg/kg	18000	20	08/16/22	PS22H10K	08/17/22 12:24	S622H17A	ALS
58. Phenanthrene	**33000**		µg/kg	900	20	08/16/22	PS22H10K	08/17/22 12:24	S622H17A	ALS
59. Phenol	U	Y1	µg/kg	900	20	08/16/22	PS22H10K	08/17/22 12:24	S622H17A	ALS
60. Pyrene	**32000**		µg/kg	900	20	08/16/22	PS22H10K	08/17/22 12:24	S622H17A	ALS
61. Pyridine	U	Y1	µg/kg	900	20	08/16/22	PS22H10K	08/17/22 12:24	S622H17A	ALS
‡ 62. 1,2,4-Trichlorobenzene	U	Y1	µg/kg	900	20	08/16/22	PS22H10K	08/17/22 12:24	S622H17A	ALS
63. 2,4,5-Trichlorophenol	U	Y1	µg/kg	900	20	08/16/22	PS22H10K	08/17/22 12:24	S622H17A	ALS

Client Identification:	**AKT Peerless Environ. Svcs, Inc. - Farm. Hills**	Sample Description:	**Location C**	Chain of Custody:	**206311**
Client Project Name:	**13038F-3-20**	Sample No:		Collect Date:	**08/05/22**
Client Project No:	**13038F-3-20**	Sample Matrix:	**Soil/Solid**	Collect Time:	**11:32**

Sample Comments: **Soil results have been calculated and reported on a dry weight basis unless otherwise noted.**

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable ‡: Parameter not included in NELAC Scope of Analysis.

Base/Neutral/Acid Semivolatiles by GC/MS **Aliquot ID: A10144-005** **Matrix: Soil/Solid**
Method: EPA 3550C/EPA 8270E **Description: Location C**

						Preparation		Analysis		
Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	P. Date	P. Batch	A. Date	A. Batch	Init.
64. 2,4,6-Trichlorophenol	U	Y1	µg/kg	900	20	08/16/22	PS22H10K	08/17/22 12:24	S622H17A	ALS

Client Identification:	**AKT Peerless Environ. Svcs, Inc. - Farm. Hills**	Sample Description:	**Location C**	Chain of Custody:	**206311**
Client Project Name:	**13038F-3-20**	Sample No:		Collect Date:	**08/05/22**
Client Project No:	**13038F-3-20**	Sample Matrix:	**Surface Water**	Collect Time:	**11:16**

Sample Comments:

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable ‡: Parameter not included in NELAC Scope of Analysis.

Michigan 10 Elements by ICP/MS, Dissolved **Aliquot ID: A10144-006C** **Matrix: Surface Water**
Method: EPA 0200.8 (Dissolved)/EPA 0200.8 **Description: Location C**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation P. Date	Preparation P. Batch	Analysis A. Date	Analysis A. Batch	Init.
1. Arsenic	U		mg/L	0.0050	10	08/09/22	PT22H09B	08/09/22	T422H09B	CJA
2. Barium	U		mg/L	0.10	10	08/09/22	PT22H09B	08/09/22	T422H09B	CJA
3. Cadmium	U		mg/L	0.0010	10	08/09/22	PT22H09B	08/09/22	T422H09B	CJA
4. Chromium	U		mg/L	0.010	10	08/09/22	PT22H09B	08/09/22	T422H09B	CJA
5. Copper	U		mg/L	0.0040	10	08/09/22	PT22H09B	08/09/22	T422H09B	CJA
6. Lead	U		mg/L	0.0030	10	08/09/22	PT22H09B	08/09/22	T422H09B	CJA
7. Selenium	U		mg/L	0.0050	10	08/09/22	PT22H09B	08/09/22	T422H09B	CJA
8. Silver	U		mg/L	0.00020	10	08/09/22	PT22H09B	08/09/22	T422H09B	CJA
9. Zinc	U		mg/L	0.050	10	08/09/22	PT22H09B	08/09/22	T422H09B	CJA

Mercury by CVAAS, Dissolved **Aliquot ID: A10144-006C** **Matrix: Surface Water**
Method: EPA 0245.1 **Description: Location C**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation P. Date	Preparation P. Batch	Analysis A. Date	Analysis A. Batch	Init.
1. Mercury	U		mg/L	0.00020	1.0	08/10/22	PM22H10B	08/10/22	M722H10A	JLH

Polychlorinated Biphenyls (PCBs) **Aliquot ID: A10144-006** **Matrix: Surface Water**
Method: EPA 0608.3 **Description: Location C**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation P. Date	Preparation P. Batch	Analysis A. Date	Analysis A. Batch	Init.
1. Aroclor-1016	U		mg/L	0.000200	1.0	08/09/22	PS22H09G	08/10/22 14:46	SO22H10A	TKT
2. Aroclor-1221	U		mg/L	0.000200	1.0	08/09/22	PS22H09G	08/10/22 14:46	SO22H10A	TKT
3. Aroclor-1232	U		mg/L	0.000200	1.0	08/09/22	PS22H09G	08/10/22 14:46	SO22H10A	TKT
4. Aroclor-1242	U		mg/L	0.000200	1.0	08/09/22	PS22H09G	08/10/22 14:46	SO22H10A	TKT
5. Aroclor-1248	U		mg/L	0.000200	1.0	08/09/22	PS22H09G	08/10/22 14:46	SO22H10A	TKT
6. Aroclor-1254	U		mg/L	0.000200	1.0	08/09/22	PS22H09G	08/10/22 14:46	SO22H10A	TKT
7. Aroclor-1260	U		mg/L	0.000200	1.0	08/09/22	PS22H09G	08/10/22 14:46	SO22H10A	TKT
‡ 8. Aroclor-1262	U		mg/L	0.000200	1.0	08/09/22	PS22H09G	08/10/22 14:46	SO22H10A	TKT
‡ 9. Aroclor-1268	U		mg/L	0.000200	1.0	08/09/22	PS22H09G	08/10/22 14:46	SO22H10A	TKT

Organochlorine Pesticides **Aliquot ID: A10144-006** **Matrix: Surface Water**
Method: EPA 0608.3 **Description: Location C**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation P. Date	Preparation P. Batch	Analysis A. Date	Analysis A. Batch	Init.
1. Aldrin	U		mg/L	0.0000100	1.0	08/09/22	PS22H09G	08/09/22 18:26	SO22H09C	TKT

Client Identification:	**AKT Peerless Environ. Svcs, Inc. - Farm. Hills**	Sample Description:	**Location C**	Chain of Custody:	**206311**
Client Project Name:	**13038F-3-20**	Sample No:		Collect Date:	**08/05/22**
Client Project No:	**13038F-3-20**	Sample Matrix:	**Surface Water**	Collect Time:	**11:16**

Sample Comments:

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable ‡: Parameter not included in NELAC Scope of Analysis.

Organochlorine Pesticides **Aliquot ID: A10144-006** **Matrix: Surface Water**
Method: EPA 0608.3 **Description: Location C**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation P. Date	Preparation P. Batch	Analysis A. Date	Analysis A. Batch	Init.
2. alpha-BHC	U		mg/L	0.0000100	1.0	08/09/22	PS22H09G	08/09/22 18:26	SO22H09C	TKT
3. beta-BHC	U	L+	mg/L	0.0000100	1.0	08/09/22	PS22H09G	08/09/22 18:26	SO22H09C	TKT
4. delta-BHC	U	L+	mg/L	0.0000100	1.0	08/09/22	PS22H09G	08/09/22 18:26	SO22H09C	TKT
5. gamma-BHC	U		mg/L	0.0000100	1.0	08/09/22	PS22H09G	08/09/22 18:26	SO22H09C	TKT
6. Chlordane	U		mg/L	0.0000500	1.0	08/09/22	PS22H09G	08/09/22 18:26	SO22H09C	TKT
7. 4,4'-DDD	U		mg/L	0.0000200	1.0	08/09/22	PS22H09G	08/09/22 18:26	SO22H09C	TKT
8. 4,4'-DDE	U		mg/L	0.0000200	1.0	08/09/22	PS22H09G	08/09/22 18:26	SO22H09C	TKT
9. 4,4'-DDT	U	L+	mg/L	0.0000200	1.0	08/09/22	PS22H09G	08/09/22 18:26	SO22H09C	TKT
10. Dieldrin	U		mg/L	0.0000200	1.0	08/09/22	PS22H09G	08/09/22 18:26	SO22H09C	TKT
11. Endosulfan I	U		mg/L	0.000500	1.0	08/09/22	PS22H09G	08/09/22 18:26	SO22H09C	TKT
12. Endosulfan II	U		mg/L	0.0000200	1.0	08/09/22	PS22H09G	08/09/22 18:26	SO22H09C	TKT
13. Endosulfan Sulfate	U		mg/L	0.0000500	1.0	08/09/22	PS22H09G	08/09/22 18:26	SO22H09C	TKT
14. Endrin	U		mg/L	0.0000200	1.0	08/09/22	PS22H09G	08/09/22 18:26	SO22H09C	TKT
15. Endrin Aldehyde	U		mg/L	0.0000200	1.0	08/09/22	PS22H09G	08/09/22 18:26	SO22H09C	TKT
16. Heptachlor	U		mg/L	0.0000100	1.0	08/09/22	PS22H09G	08/09/22 18:26	SO22H09C	TKT
17. Heptachlor Epoxide	U		mg/L	0.0000100	1.0	08/09/22	PS22H09G	08/09/22 18:26	SO22H09C	TKT
18. Methoxychlor	U	L+	mg/L	0.000500	1.0	08/09/22	PS22H09G	08/09/22 18:26	SO22H09C	TKT
19. Toxaphene	U		mg/L	0.00100	1.0	08/09/22	PS22H09G	08/09/22 18:26	SO22H09C	TKT

Organochlorine Herbicides **Aliquot ID: A10144-006** **Matrix: Surface Water**
Method: EPA 0615 **Description: Location C**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation P. Date	Preparation P. Batch	Analysis A. Date	Analysis A. Batch	Init.
‡ 1. 2,4-D	U	V+	µg/L	10	5.0	08/09/22	PS22H09H	08/10/22 19:51	SC22H10A	TKT
‡ 2. Dalapon	U	V+	µg/L	10	5.0	08/09/22	PS22H09H	08/10/22 19:51	SC22H10A	TKT
‡ 3. 2,4-DB	U		µg/L	10	5.0	08/09/22	PS22H09H	08/10/22 19:51	SC22H10A	TKT
‡ 4. Dicamba	U	V+	µg/L	1.0	5.0	08/09/22	PS22H09H	08/10/22 19:51	SC22H10A	TKT
‡ 5. Dichlorprop	U		µg/L	10	5.0	08/09/22	PS22H09H	08/10/22 19:51	SC22H10A	TKT
‡ 6. Dinoseb	U	V+	µg/L	5.0	5.0	08/09/22	PS22H09H	08/10/22 19:51	SC22H10A	TKT
‡ 7. 2,4,5-T	U	V+	µg/L	1.0	5.0	08/09/22	PS22H09H	08/10/22 19:51	SC22H10A	TKT
‡ 8. 2,4,5-TP	U		µg/L	1.0	5.0	08/09/22	PS22H09H	08/10/22 19:51	SC22H10A	TKT

Fibertec environmental services

Analytical Laboratory Report
Laboratory Project Number: A10144
Laboratory Sample Number: A10144-006

Order: A10144
Date: 08/23/22

Client Identification:	**AKT Peerless Environ. Svcs, Inc. - Farm. Hills**	Sample Description:	**Location C**	Chain of Custody:	**206311**
Client Project Name:	**13038F-3-20**	Sample No:		Collect Date:	**08/05/22**
Client Project No:	**13038F-3-20**	Sample Matrix:	**Surface Water**	Collect Time:	**11:16**

Sample Comments:

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable ‡: Parameter not included in NELAC Scope of Analysis.

Volatile Organic Compounds (VOCs) by GC/MS **Aliquot ID: A10144-006B** **Matrix: Surface Water**
Method: EPA 0624.1 **Description: Location C**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation P. Date	Preparation P. Batch	Analysis A. Date	Analysis A. Batch	Init.
1. Acetone	U		mg/L	0.0500	1.0	08/12/22	VM22H12A	08/12/22 19:50	VM22H12A	SNC
2. Acrylonitrile	U		mg/L	0.00200	1.0	08/12/22	VM22H12A	08/12/22 19:50	VM22H12A	SNC
3. Benzene	U		mg/L	0.00100	1.0	08/12/22	VM22H12A	08/12/22 19:50	VM22H12A	SNC
‡ 4. Bromobenzene	U		mg/L	0.00100	1.0	08/12/22	VM22H12A	08/12/22 19:50	VM22H12A	SNC
‡ 5. Bromochloromethane	U		mg/L	0.00100	1.0	08/12/22	VM22H12A	08/12/22 19:50	VM22H12A	SNC
6. Bromodichloromethane	U		mg/L	0.00100	1.0	08/12/22	VM22H12A	08/12/22 19:50	VM22H12A	SNC
7. Bromoform	U		mg/L	0.00100	1.0	08/12/22	VM22H12A	08/12/22 19:50	VM22H12A	SNC
8. Bromomethane	U		mg/L	0.00500	1.0	08/12/22	VM22H12A	08/12/22 19:50	VM22H12A	SNC
9. 2-Butanone	U		mg/L	0.0250	1.0	08/12/22	VM22H12A	08/12/22 19:50	VM22H12A	SNC
‡ 10. n-Butylbenzene	U		mg/L	0.00100	1.0	08/12/22	VM22H12A	08/12/22 19:50	VM22H12A	SNC
‡ 11. sec-Butylbenzene	U		mg/L	0.00100	1.0	08/12/22	VM22H12A	08/12/22 19:50	VM22H12A	SNC
‡ 12. tert-Butylbenzene	U		mg/L	0.00100	1.0	08/12/22	VM22H12A	08/12/22 19:50	VM22H12A	SNC
‡ 13. Carbon Disulfide	U		mg/L	0.00500	1.0	08/12/22	VM22H12A	08/12/22 19:50	VM22H12A	SNC
14. Carbon Tetrachloride	U	V+	mg/L	0.00100	1.0	08/12/22	VM22H12A	08/12/22 19:50	VM22H12A	SNC
15. Chlorobenzene	U		mg/L	0.00100	1.0	08/12/22	VM22H12A	08/12/22 19:50	VM22H12A	SNC
16. Chloroethane	U		mg/L	0.00500	1.0	08/12/22	VM22H12A	08/12/22 19:50	VM22H12A	SNC
17. Chloroform	U		mg/L	0.00100	1.0	08/12/22	VM22H12A	08/12/22 19:50	VM22H12A	SNC
18. Chloromethane	U		mg/L	0.00500	1.0	08/12/22	VM22H12A	08/12/22 19:50	VM22H12A	SNC
‡ 19. 2-Chlorotoluene	U		mg/L	0.00500	1.0	08/12/22	VM22H12A	08/12/22 19:50	VM22H12A	SNC
‡ 20. 1,2-Dibromo-3-chloropropane (SIM)	U		mg/L	0.00100	1.0	08/12/22	VM22H12A	08/12/22 19:50	VM22H12A	SNC
21. Dibromochloromethane	U	V+	mg/L	0.00500	1.0	08/12/22	VM22H12A	08/12/22 19:50	VM22H12A	SNC
‡ 22. Dibromomethane	U		mg/L	0.00500	1.0	08/12/22	VM22H12A	08/12/22 19:50	VM22H12A	SNC
23. 1,2-Dichlorobenzene	U		mg/L	0.00100	1.0	08/12/22	VM22H12A	08/12/22 19:50	VM22H12A	SNC
24. 1,3-Dichlorobenzene	U		mg/L	0.00100	1.0	08/12/22	VM22H12A	08/12/22 19:50	VM22H12A	SNC
25. 1,4-Dichlorobenzene	U		mg/L	0.00100	1.0	08/12/22	VM22H12A	08/12/22 19:50	VM22H12A	SNC
‡ 26. Dichlorodifluoromethane	U		mg/L	0.00500	1.0	08/12/22	VM22H12A	08/12/22 19:50	VM22H12A	SNC
27. 1,1-Dichloroethane	U		mg/L	0.00100	1.0	08/12/22	VM22H12A	08/12/22 19:50	VM22H12A	SNC
28. 1,2-Dichloroethane	U		mg/L	0.00100	1.0	08/12/22	VM22H12A	08/12/22 19:50	VM22H12A	SNC
29. 1,1-Dichloroethene	U		mg/L	0.00100	1.0	08/12/22	VM22H12A	08/12/22 19:50	VM22H12A	SNC
30. cis-1,2-Dichloroethene	U		mg/L	0.00100	1.0	08/12/22	VM22H12A	08/12/22 19:50	VM22H12A	SNC
31. trans-1,2-Dichloroethene	U		mg/L	0.00100	1.0	08/12/22	VM22H12A	08/12/22 19:50	VM22H12A	SNC
32. 1,2-Dichloropropane	U		mg/L	0.00100	1.0	08/12/22	VM22H12A	08/12/22 19:50	VM22H12A	SNC
33. cis-1,3-Dichloropropene	U		mg/L	0.000500	1.0	08/12/22	VM22H12A	08/12/22 19:50	VM22H12A	SNC
34. trans-1,3-Dichloropropene	U		mg/L	0.000500	1.0	08/12/22	VM22H12A	08/12/22 19:50	VM22H12A	SNC
35. Ethylbenzene	U		mg/L	0.00100	1.0	08/12/22	VM22H12A	08/12/22 19:50	VM22H12A	SNC
36. Ethylene Dibromide	U		mg/L	0.00100	1.0	08/12/22	VM22H12A	08/12/22 19:50	VM22H12A	SNC
‡ 37. 2-Hexanone	U		mg/L	0.0500	1.0	08/12/22	VM22H12A	08/12/22 19:50	VM22H12A	SNC

Fibertec environmental services

Analytical Laboratory Report
Laboratory Project Number: A10144
Laboratory Sample Number: A10144-006

Order: A10144
Date: 08/23/22

Client Identification:	**AKT Peerless Environ. Svcs, Inc. - Farm. Hills**	Sample Description:	**Location C**	Chain of Custody:	**206311**
Client Project Name:	**13038F-3-20**	Sample No:		Collect Date:	**08/05/22**
Client Project No:	**13038F-3-20**	Sample Matrix:	**Surface Water**	Collect Time:	**11:16**

Sample Comments:

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable ‡: Parameter not included in NELAC Scope of Analysis.

Volatile Organic Compounds (VOCs) by GC/MS **Aliquot ID: A10144-006B** **Matrix: Surface Water**
Method: EPA 0624.1 **Description: Location C**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation P. Date	Preparation P. Batch	Analysis A. Date	Analysis A. Batch	Init.
‡ 38. Isopropylbenzene	U		mg/L	0.00500	1.0	08/12/22	VM22H12A	08/12/22 19:50	VM22H12A	SNC
‡ 39. 4-Methyl-2-pentanone	U		mg/L	0.0500	1.0	08/12/22	VM22H12A	08/12/22 19:50	VM22H12A	SNC
40. Methylene Chloride	U		mg/L	0.00500	1.0	08/12/22	VM22H12A	08/12/22 19:50	VM22H12A	SNC
‡ 41. 2-Methylnaphthalene	U		mg/L	0.00500	1.0	08/12/22	VM22H12A	08/12/22 19:50	VM22H12A	SNC
42. MTBE	U		mg/L	0.00500	1.0	08/12/22	VM22H12A	08/12/22 19:50	VM22H12A	SNC
43. Naphthalene	U		mg/L	0.00500	1.0	08/12/22	VM22H12A	08/12/22 19:50	VM22H12A	SNC
‡ 44. n-Propylbenzene	U		mg/L	0.00100	1.0	08/12/22	VM22H12A	08/12/22 19:50	VM22H12A	SNC
‡ 45. Styrene	U		mg/L	0.00100	1.0	08/12/22	VM22H12A	08/12/22 19:50	VM22H12A	SNC
‡ 46. 1,1,1,2-Tetrachloroethane	U		mg/L	0.00100	1.0	08/12/22	VM22H12A	08/12/22 19:50	VM22H12A	SNC
47. 1,1,2,2-Tetrachloroethane	U		mg/L	0.00100	1.0	08/12/22	VM22H12A	08/12/22 19:50	VM22H12A	SNC
48. Tetrachloroethene	U		mg/L	0.00100	1.0	08/12/22	VM22H12A	08/12/22 19:50	VM22H12A	SNC
49. Toluene	U		mg/L	0.00100	1.0	08/12/22	VM22H12A	08/12/22 19:50	VM22H12A	SNC
‡ 50. 1,2,4-Trichlorobenzene	U		mg/L	0.00500	1.0	08/12/22	VM22H12A	08/12/22 19:50	VM22H12A	SNC
51. 1,1,1-Trichloroethane	U		mg/L	0.00100	1.0	08/12/22	VM22H12A	08/12/22 19:50	VM22H12A	SNC
52. 1,1,2-Trichloroethane	U		mg/L	0.00100	1.0	08/12/22	VM22H12A	08/12/22 19:50	VM22H12A	SNC
53. Trichloroethene	U		mg/L	0.00100	1.0	08/12/22	VM22H12A	08/12/22 19:50	VM22H12A	SNC
54. Trichlorofluoromethane	U		mg/L	0.00100	1.0	08/12/22	VM22H12A	08/12/22 19:50	VM22H12A	SNC
‡ 55. 1,2,3-Trichloropropane	U		mg/L	0.00100	1.0	08/12/22	VM22H12A	08/12/22 19:50	VM22H12A	SNC
‡ 56. 1,2,3-Trimethylbenzene	U		mg/L	0.00100	1.0	08/12/22	VM22H12A	08/12/22 19:50	VM22H12A	SNC
‡ 57. 1,2,4-Trimethylbenzene	U		mg/L	0.00100	1.0	08/12/22	VM22H12A	08/12/22 19:50	VM22H12A	SNC
‡ 58. 1,3,5-Trimethylbenzene	U		mg/L	0.00100	1.0	08/12/22	VM22H12A	08/12/22 19:50	VM22H12A	SNC
59. Vinyl Chloride	U		mg/L	0.00100	1.0	08/12/22	VM22H12A	08/12/22 19:50	VM22H12A	SNC
60. m&p-Xylene	U		mg/L	0.00200	1.0	08/12/22	VM22H12A	08/12/22 19:50	VM22H12A	SNC
61. o-Xylene	U		mg/L	0.00100	1.0	08/12/22	VM22H12A	08/12/22 19:50	VM22H12A	SNC
62. Xylenes	U		mg/L	0.00300	1.0	08/12/22	VM22H12A	08/12/22 19:50	VM22H12A	SNC

Base/Neutral/Acid Semivolatiles by GC/MS **Aliquot ID: A10144-006** **Matrix: Surface Water**
Method: EPA 0625.1 **Description: Location C**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation P. Date	Preparation P. Batch	Analysis A. Date	Analysis A. Batch	Init.
1. Acenaphthene	U		µg/L	5.0	1.0	08/11/22	PS22H11F	08/17/22 09:50	S622H17A	ALS
2. Acenaphthylene	U		µg/L	5.0	1.0	08/11/22	PS22H11F	08/17/22 09:50	S622H17A	ALS
‡ 3. Aniline	U		µg/L	4.0	1.0	08/11/22	PS22H11F	08/17/22 09:50	S622H17A	ALS
4. Anthracene	U		µg/L	5.0	1.0	08/11/22	PS22H11F	08/17/22 09:50	S622H17A	ALS
‡ 5. Azobenzene	U		µg/L	5.0	1.0	08/11/22	PS22H11F	08/17/22 09:50	S622H17A	ALS
6. Benzo(a)anthracene	U		µg/L	1.0	1.0	08/11/22	PS22H11F	08/17/22 09:50	S622H17A	ALS

1914 Holloway Drive *Holt, MI 48842* *T: (517) 699-0345* *F: (517) 699-0388*
11766 E Grand River *Brighton, MI 48116* *T: (810) 220-3300* *F: (810) 220-3311*
8660 S Mackinaw Trail *Cadillac, MI 49601* *T: (231) 775-8368* *F: (231) 775-8584*
lab@fibertec.us

Client Identification:	**AKT Peerless Environ. Svcs, Inc. - Farm. Hills**	Sample Description:	**Location C**	Chain of Custody:	**206311**
Client Project Name:	**13038F-3-20**	Sample No:		Collect Date:	**08/05/22**
Client Project No:	**13038F-3-20**	Sample Matrix:	**Surface Water**	Collect Time:	**11:16**

Sample Comments:

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable ‡: Parameter not included in NELAC Scope of Analysis.

Base/Neutral/Acid Semivolatiles by GC/MS **Aliquot ID: A10144-006** **Matrix: Surface Water**
Method: EPA 0625.1 **Description: Location C**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation P. Date	Preparation P. Batch	Analysis A. Date	Analysis A. Batch	Init.
7. Benzo(a)pyrene	U		µg/L	1.0	1.0	08/11/22	PS22H11F	08/17/22 09:50	S622H17A	ALS
8. Benzo(b)fluoranthene	U		µg/L	1.0	1.0	08/11/22	PS22H11F	08/17/22 09:50	S622H17A	ALS
9. Benzo(ghi)perylene	U		µg/L	1.0	1.0	08/11/22	PS22H11F	08/17/22 09:50	S622H17A	ALS
10. Benzo(k)fluoranthene	U		µg/L	1.0	1.0	08/11/22	PS22H11F	08/17/22 09:50	S622H17A	ALS
‡ 11. Benzyl Alcohol	U		µg/L	5.0	1.0	08/11/22	PS22H11F	08/17/22 09:50	S622H17A	ALS
12. Bis(2-chloroethoxy)methane	U		µg/L	5.0	1.0	08/11/22	PS22H11F	08/17/22 09:50	S622H17A	ALS
13. Bis(2-chloroethyl)ether	U		µg/L	1.0	1.0	08/11/22	PS22H11F	08/17/22 09:50	S622H17A	ALS
14. Bis(2-ethylhexyl)phthalate	U		µg/L	5.0	1.0	08/11/22	PS22H11F	08/17/22 09:50	S622H17A	ALS
15. 4-Bromophenyl Phenylether	U		µg/L	5.0	1.0	08/11/22	PS22H11F	08/17/22 09:50	S622H17A	ALS
16. Butyl Benzyl Phthalate	U		µg/L	5.0	1.0	08/11/22	PS22H11F	08/17/22 09:50	S622H17A	ALS
17. Di-n-butyl Phthalate	U		µg/L	5.0	1.0	08/11/22	PS22H11F	08/17/22 09:50	S622H17A	ALS
‡ 18. Carbazole	U		µg/L	5.0	1.0	08/11/22	PS22H11F	08/17/22 09:50	S622H17A	ALS
19. 4-Chloro-3-methylphenol	U		µg/L	5.0	1.0	08/11/22	PS22H11F	08/17/22 09:50	S622H17A	ALS
20. 2-Chloronaphthalene	U		µg/L	5.0	1.0	08/11/22	PS22H11F	08/17/22 09:50	S622H17A	ALS
21. 2-Chlorophenol	U		µg/L	5.0	1.0	08/11/22	PS22H11F	08/17/22 09:50	S622H17A	ALS
22. 4-Chlorophenyl Phenylether	U		µg/L	5.0	1.0	08/11/22	PS22H11F	08/17/22 09:50	S622H17A	ALS
23. Chrysene	U		µg/L	1.0	1.0	08/11/22	PS22H11F	08/17/22 09:50	S622H17A	ALS
24. Dibenzo(a,h)anthracene	U		µg/L	2.0	1.0	08/11/22	PS22H11F	08/17/22 09:50	S622H17A	ALS
‡ 25. Dibenzofuran	U		µg/L	4.0	1.0	08/11/22	PS22H11F	08/17/22 09:50	S622H17A	ALS
26. 2,4-Dichlorophenol	U		µg/L	5.0	1.0	08/11/22	PS22H11F	08/17/22 09:50	S622H17A	ALS
27. Diethyl Phthalate	U		µg/L	5.0	1.0	08/11/22	PS22H11F	08/17/22 09:50	S622H17A	ALS
28. 2,4-Dimethylphenol	U		µg/L	5.0	1.0	08/11/22	PS22H11F	08/17/22 09:50	S622H17A	ALS
29. Dimethyl Phthalate	U		µg/L	5.0	1.0	08/11/22	PS22H11F	08/17/22 09:50	S622H17A	ALS
30. 2,4-Dinitrophenol	U	L-*	µg/L	20	1.0	08/11/22	PS22H11F	08/17/22 09:50	S622H17A	ALS
‡ 31. 2,4-Dinitrotoluene	U		µg/L	5.0	1.0	08/11/22	PS22H11F	08/17/22 09:50	S622H17A	ALS
‡ 32. 2,6-Dinitrotoluene	U		µg/L	5.0	1.0	08/11/22	PS22H11F	08/17/22 09:50	S622H17A	ALS
33. Fluoranthene	U		µg/L	1.0	1.0	08/11/22	PS22H11F	08/17/22 09:50	S622H17A	ALS
34. Fluorene	U		µg/L	5.0	1.0	08/11/22	PS22H11F	08/17/22 09:50	S622H17A	ALS
35. Hexachlorobenzene	U		µg/L	5.0	1.0	08/11/22	PS22H11F	08/17/22 09:50	S622H17A	ALS
36. Hexachlorobutadiene	U		µg/L	5.0	1.0	08/11/22	PS22H11F	08/17/22 09:50	S622H17A	ALS
37. Hexachlorocyclopentadiene	U		µg/L	5.0	1.0	08/11/22	PS22H11F	08/17/22 09:50	S622H17A	ALS
38. Hexachloroethane	U		µg/L	5.0	1.0	08/11/22	PS22H11F	08/17/22 09:50	S622H17A	ALS
39. Indeno(1,2,3-cd)pyrene	U		µg/L	2.0	1.0	08/11/22	PS22H11F	08/17/22 09:50	S622H17A	ALS
‡ 40. Isophorone	U		µg/L	5.0	1.0	08/11/22	PS22H11F	08/17/22 09:50	S622H17A	ALS
41. 2-Methyl-4,6-dinitrophenol	U		µg/L	20	1.0	08/11/22	PS22H11F	08/17/22 09:50	S622H17A	ALS
‡ 42. 2-Methylnaphthalene	U		µg/L	5.0	1.0	08/11/22	PS22H11F	08/17/22 09:50	S622H17A	ALS

Client Identification:	**AKT Peerless Environ. Svcs, Inc. - Farm. Hills**	Sample Description:	**Location C**	Chain of Custody:	**206311**
Client Project Name:	**13038F-3-20**	Sample No:		Collect Date:	**08/05/22**
Client Project No:	**13038F-3-20**	Sample Matrix:	**Surface Water**	Collect Time:	**11:16**

Sample Comments:

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable ‡: Parameter not included in NELAC Scope of Analysis.

Base/Neutral/Acid Semivolatiles by GC/MS **Aliquot ID: A10144-006** **Matrix: Surface Water**
Method: EPA 0625.1 **Description: Location C**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation P. Date	Preparation P. Batch	Analysis A. Date	Analysis A. Batch	Init.
43. 2-Methylphenol	U		µg/L	5.0	1.0	08/11/22	PS22H11F	08/17/22 09:50	S622H17A	ALS
‡ 44. 3&4-Methylphenol	U		µg/L	10	1.0	08/11/22	PS22H11F	08/17/22 09:50	S622H17A	ALS
45. Naphthalene	U		µg/L	5.0	1.0	08/11/22	PS22H11F	08/17/22 09:50	S622H17A	ALS
‡ 46. 2-Nitroaniline	U		µg/L	20	1.0	08/11/22	PS22H11F	08/17/22 09:50	S622H17A	ALS
‡ 47. 3-Nitroaniline	U		µg/L	20	1.0	08/11/22	PS22H11F	08/17/22 09:50	S622H17A	ALS
‡ 48. 4-Nitroaniline	U		µg/L	20	1.0	08/11/22	PS22H11F	08/17/22 09:50	S622H17A	ALS
49. Nitrobenzene	U		µg/L	3.0	1.0	08/11/22	PS22H11F	08/17/22 09:50	S622H17A	ALS
50. 2-Nitrophenol	U		µg/L	5.0	1.0	08/11/22	PS22H11F	08/17/22 09:50	S622H17A	ALS
51. 4-Nitrophenol	U	L-	µg/L	20	1.0	08/11/22	PS22H11F	08/17/22 09:50	S622H17A	ALS
52. N-Nitrosodimethylamine	U		µg/L	5.0	1.0	08/11/22	PS22H11F	08/17/22 09:50	S622H17A	ALS
53. N-Nitrosodi-n-propylamine	U		µg/L	5.0	1.0	08/11/22	PS22H11F	08/17/22 09:50	S622H17A	ALS
54. N-Nitrosodiphenylamine	U		µg/L	5.0	1.0	08/11/22	PS22H11F	08/17/22 09:50	S622H17A	ALS
55. Di-n-octyl Phthalate	U		µg/L	5.0	1.0	08/11/22	PS22H11F	08/17/22 09:50	S622H17A	ALS
56. 2,2'-Oxybis(1-chloropropane)	U		µg/L	5.0	1.0	08/11/22	PS22H11F	08/17/22 09:50	S622H17A	ALS
57. Pentachlorophenol	U	L-	µg/L	20	1.0	08/11/22	PS22H11F	08/17/22 09:50	S622H17A	ALS
58. Phenanthrene	U		µg/L	2.0	1.0	08/11/22	PS22H11F	08/17/22 09:50	S622H17A	ALS
59. Phenol	U		µg/L	5.0	1.0	08/11/22	PS22H11F	08/17/22 09:50	S622H17A	ALS
60. Pyrene	U		µg/L	5.0	1.0	08/11/22	PS22H11F	08/17/22 09:50	S622H17A	ALS
61. Pyridine	U		µg/L	5.0	1.0	08/11/22	PS22H11F	08/17/22 09:50	S622H17A	ALS
62. 1,2,4-Trichlorobenzene	U		µg/L	5.0	1.0	08/11/22	PS22H11F	08/17/22 09:50	S622H17A	ALS
63. 2,4,5-Trichlorophenol	U		µg/L	5.0	1.0	08/11/22	PS22H11F	08/17/22 09:50	S622H17A	ALS
64. 2,4,6-Trichlorophenol	U		µg/L	4.0	1.0	08/11/22	PS22H11F	08/17/22 09:50	S622H17A	ALS

Chromium, Hexavalent, Dissolved **Aliquot ID: A10144-006A** **Matrix: Surface Water**
Method: SM 3500-Cr B-2011 **Description: Location C**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation P. Date	Preparation P. Batch	Analysis A. Date	Analysis A. Batch	Init.
1. Chromium VI	U		mg/L	0.0050	1.0	NA	NA	08/05/22 16:24	W322H05A	TDJ

Client Identification:	**AKT Peerless Environ. Svcs, Inc. - Farm. Hills**	Sample Description:	**Location D**	Chain of Custody:	**206311**
Client Project Name:	**13038F-3-20**	Sample No:		Collect Date:	**08/05/22**
Client Project No:	**13038F-3-20**	Sample Matrix:	**Soil/Solid**	Collect Time:	**09:50**

Sample Comments: **Soil results have been calculated and reported on a dry weight basis unless otherwise noted.**

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable ‡: Parameter not included in NELAC Scope of Analysis.

Water (Moisture) Content Dried at 105 ± 5°C **Aliquot ID: A10144-007** **Matrix: Soil/Solid**
Method: ASTM D2216-10 **Description: Location D**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation P. Date	Preparation P. Batch	Analysis A. Date	Analysis A. Batch	Init.
‡ 1. Percent Moisture (Water Content)	**18**		%	1	1.0	08/09/22	MC220809	08/10/22	MC220809	LJK

Michigan 10 Elements by ICP/MS **Aliquot ID: A10144-007** **Matrix: Soil/Solid**
Method: EPA 0200.2/EPA 6020A **Description: Location D**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation P. Date	Preparation P. Batch	Analysis A. Date	Analysis A. Batch	Init.
1. Arsenic	**2800**		µg/kg	100	20	08/11/22	PT22H11B	08/12/22	T422H12A	CJA
2. Barium	**6500**		µg/kg	1000	20	08/11/22	PT22H11B	08/12/22	T422H12A	CJA
3. Cadmium	U		µg/kg	50	20	08/11/22	PT22H11B	08/12/22	T422H12A	CJA
4. Chromium	**5000**		µg/kg	500	20	08/11/22	PT22H11B	08/12/22	T422H12A	CJA
5. Copper	**3800**		µg/kg	1000	20	08/11/22	PT22H11B	08/12/22	T422H12A	CJA
6. Lead	**2300**		µg/kg	1000	20	08/11/22	PT22H11B	08/12/22	T422H12A	CJA
7. Selenium	U		µg/kg	200	20	08/11/22	PT22H11B	08/12/22	T422H12A	CJA
8. Silver	U		µg/kg	100	20	08/11/22	PT22H11B	08/12/22	T422H12A	CJA
9. Zinc	**13000**		µg/kg	1000	20	08/11/22	PT22H11B	08/12/22	T422H12A	CJA

Chromium, Hexavalent **Aliquot ID: A10144-007** **Matrix: Soil/Solid**
Method: EPA 3060A/EPA 7196A **Description: Location D**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation P. Date	Preparation P. Batch	Analysis A. Date	Analysis A. Batch	Init.
1. Chromium VI	U		µg/kg	490	1.0	08/08/22	W322H08B	08/09/22	W322H08B	MJS

Mercury by CVAAS **Aliquot ID: A10144-007** **Matrix: Soil/Solid**
Method: EPA 7471B **Description: Location D**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation P. Date	Preparation P. Batch	Analysis A. Date	Analysis A. Batch	Init.
1. Mercury	U		µg/kg	50	10	08/09/22	PM22H09B	08/11/22	M722H11A	JLH

Organochlorine Pesticides **Aliquot ID: A10144-007** **Matrix: Soil/Solid**
Method: EPA 3546/EPA 8081B **Description: Location D**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation P. Date	Preparation P. Batch	Analysis A. Date	Analysis A. Batch	Init.
1. Aldrin	U		µg/kg	20	5.0	08/10/22	PS22H10B	08/11/22 10:12	SO22H11A	TKT
2. alpha-BHC	U		µg/kg	20	5.0	08/10/22	PS22H10B	08/11/22 10:12	SO22H11A	TKT

Client Identification:	**AKT Peerless Environ. Svcs, Inc. - Farm. Hills**	Sample Description:	**Location D**	Chain of Custody:	**206311**
Client Project Name:	**13038F-3-20**	Sample No:		Collect Date:	**08/05/22**
Client Project No:	**13038F-3-20**	Sample Matrix:	**Soil/Solid**	Collect Time:	**09:50**

Sample Comments: **Soil results have been calculated and reported on a dry weight basis unless otherwise noted.**

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable ‡: Parameter not included in NELAC Scope of Analysis.

Organochlorine Pesticides **Aliquot ID: A10144-007** **Matrix: Soil/Solid**
Method: EPA 3546/EPA 8081B **Description: Location D**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation P. Date	Preparation P. Batch	Analysis A. Date	Analysis A. Batch	Init.
3. beta-BHC	U		µg/kg	20	5.0	08/10/22	PS22H10B	08/11/22 10:12	SO22H11A	TKT
4. delta-BHC	U		µg/kg	20	5.0	08/10/22	PS22H10B	08/11/22 10:12	SO22H11A	TKT
5. gamma-BHC	U		µg/kg	20	5.0	08/10/22	PS22H10B	08/11/22 10:12	SO22H11A	TKT
6. Chlordane	U		µg/kg	25	5.0	08/10/22	PS22H10B	08/11/22 10:12	SO22H11A	TKT
7. 4,4'-DDD	U		µg/kg	20	5.0	08/10/22	PS22H10B	08/11/22 10:12	SO22H11A	TKT
8. 4,4'-DDE	U		µg/kg	20	5.0	08/10/22	PS22H10B	08/11/22 10:12	SO22H11A	TKT
9. 4,4'-DDT	U		µg/kg	20	5.0	08/10/22	PS22H10B	08/11/22 10:12	SO22H11A	TKT
10. Dieldrin	U		µg/kg	20	5.0	08/10/22	PS22H10B	08/11/22 10:12	SO22H11A	TKT
11. Endosulfan I	U	L-	µg/kg	20	5.0	08/10/22	PS22H10B	08/11/22 10:12	SO22H11A	TKT
12. Endosulfan II	U		µg/kg	20	5.0	08/10/22	PS22H10B	08/11/22 10:12	SO22H11A	TKT
13. Endosulfan Sulfate	U		µg/kg	20	5.0	08/10/22	PS22H10B	08/11/22 10:12	SO22H11A	TKT
14. Endrin	U		µg/kg	20	5.0	08/10/22	PS22H10B	08/11/22 10:12	SO22H11A	TKT
15. Endrin Aldehyde	U		µg/kg	20	5.0	08/10/22	PS22H10B	08/11/22 10:12	SO22H11A	TKT
16. Heptachlor	U		µg/kg	20	5.0	08/10/22	PS22H10B	08/11/22 10:12	SO22H11A	TKT
17. Heptachlor Epoxide	U		µg/kg	20	5.0	08/10/22	PS22H10B	08/11/22 10:12	SO22H11A	TKT
18. Methoxychlor	U	L-	µg/kg	50	5.0	08/10/22	PS22H10B	08/11/22 10:12	SO22H11A	TKT
19. Toxaphene	U		µg/kg	170	5.0	08/10/22	PS22H10B	08/11/22 10:12	SO22H11A	TKT

Polychlorinated Biphenyls (PCBs) **Aliquot ID: A10144-007** **Matrix: Soil/Solid**
Method: EPA 3546/EPA 8082A **Description: Location D**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation P. Date	Preparation P. Batch	Analysis A. Date	Analysis A. Batch	Init.
1. Aroclor-1016	U		µg/kg	100	5.0	08/10/22	PS22H10B	08/10/22 16:31	SO22H10A	TKT
2. Aroclor-1221	U		µg/kg	100	5.0	08/10/22	PS22H10B	08/10/22 16:31	SO22H10A	TKT
3. Aroclor-1232	U		µg/kg	100	5.0	08/10/22	PS22H10B	08/10/22 16:31	SO22H10A	TKT
4. Aroclor-1242	U		µg/kg	100	5.0	08/10/22	PS22H10B	08/10/22 16:31	SO22H10A	TKT
5. Aroclor-1248	U		µg/kg	100	5.0	08/10/22	PS22H10B	08/10/22 16:31	SO22H10A	TKT
6. Aroclor-1254	U		µg/kg	100	5.0	08/10/22	PS22H10B	08/10/22 16:31	SO22H10A	TKT
7. Aroclor-1260	U		µg/kg	100	5.0	08/10/22	PS22H10B	08/10/22 16:31	SO22H10A	TKT
‡ 8. Aroclor-1262	U		µg/kg	100	5.0	08/10/22	PS22H10B	08/10/22 16:31	SO22H10A	TKT
‡ 9. Aroclor-1268	U		µg/kg	100	5.0	08/10/22	PS22H10B	08/10/22 16:31	SO22H10A	TKT

Fibertec environmental services

Analytical Laboratory Report
Laboratory Project Number: A10144
Laboratory Sample Number: A10144-007

Order: A10144
Date: 08/23/22

Client Identification:	**AKT Peerless Environ. Svcs, Inc. - Farm. Hills**	Sample Description:	**Location D**	Chain of Custody:	**206311**
Client Project Name:	**13038F-3-20**	Sample No:		Collect Date:	**08/05/22**
Client Project No:	**13038F-3-20**	Sample Matrix:	**Soil/Solid**	Collect Time:	**09:50**

Sample Comments: **Soil results have been calculated and reported on a dry weight basis unless otherwise noted.**

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable ‡: Parameter not included in NELAC Scope of Analysis.

Organochlorine Herbicides **Aliquot ID: A10144-007** **Matrix: Soil/Solid**
Method: EPA 8151A **Description: Location D**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation P. Date	Preparation P. Batch	Analysis A. Date	Analysis A. Batch	Init.
‡ 1. 2,4-D	U		µg/kg	200	5.0	08/09/22	PS22H09E	08/11/22 01:53	SC22H10A	TKT
‡ 2. Dalapon	U		µg/kg	100	5.0	08/09/22	PS22H09E	08/11/22 01:53	SC22H10A	TKT
‡ 3. 2,4-DB	U	L+	µg/kg	200	5.0	08/09/22	PS22H09E	08/11/22 01:53	SC22H10A	TKT
‡ 4. Dicamba	U		µg/kg	100	5.0	08/09/22	PS22H09E	08/11/22 01:53	SC22H10A	TKT
‡ 5. Dichlorprop	U		µg/kg	200	5.0	08/09/22	PS22H09E	08/11/22 01:53	SC22H10A	TKT
‡ 6. Dinoseb	U	V+ L+	µg/kg	100	5.0	08/09/22	PS22H09E	08/11/22 01:53	SC22H10A	TKT
‡ 7. 2,4,5-T	U		µg/kg	200	5.0	08/09/22	PS22H09E	08/11/22 01:53	SC22H10A	TKT
‡ 8. 2,4,5-TP	U		µg/kg	200	5.0	08/09/22	PS22H09E	08/11/22 01:53	SC22H10A	TKT

Volatile Organic Compounds (VOCs) by GC/MS, 5035 **Aliquot ID: A10144-007A** **Matrix: Soil/Solid**
Method: EPA 5035A/EPA 8260D **Description: Location D**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation P. Date	Preparation P. Batch	Analysis A. Date	Analysis A. Batch	Init.
1. Acetone	U		µg/kg	1000	1.0	08/09/22	VJ22H09B	08/10/22 00:49	VJ22H09B	ART
‡ 2. Acrylonitrile	U		µg/kg	100	1.0	08/09/22	VJ22H09B	08/10/22 00:49	VJ22H09B	ART
3. Benzene	U		µg/kg	50	1.0	08/09/22	VJ22H09B	08/10/22 00:49	VJ22H09B	ART
4. Bromobenzene	U		µg/kg	100	1.0	08/09/22	VJ22H09B	08/10/22 00:49	VJ22H09B	ART
5. Bromochloromethane	U		µg/kg	100	1.0	08/09/22	VJ22H09B	08/10/22 00:49	VJ22H09B	ART
6. Bromodichloromethane	U		µg/kg	100	1.0	08/09/22	VJ22H09B	08/10/22 00:49	VJ22H09B	ART
7. Bromoform	U		µg/kg	100	1.0	08/09/22	VJ22H09B	08/10/22 00:49	VJ22H09B	ART
8. Bromomethane	U		µg/kg	200	1.0	08/09/22	VJ22H09B	08/10/22 00:49	VJ22H09B	ART
9. 2-Butanone	U		µg/kg	750	1.0	08/09/22	VJ22H09B	08/10/22 00:49	VJ22H09B	ART
10. n-Butylbenzene	U		µg/kg	50	1.0	08/09/22	VJ22H09B	08/10/22 00:49	VJ22H09B	ART
11. sec-Butylbenzene	U		µg/kg	50	1.0	08/09/22	VJ22H09B	08/10/22 00:49	VJ22H09B	ART
12. tert-Butylbenzene	U		µg/kg	50	1.0	08/09/22	VJ22H09B	08/10/22 00:49	VJ22H09B	ART
13. Carbon Disulfide	U		µg/kg	250	1.0	08/09/22	VJ22H09B	08/10/22 00:49	VJ22H09B	ART
14. Carbon Tetrachloride	U		µg/kg	50	1.0	08/09/22	VJ22H09B	08/10/22 00:49	VJ22H09B	ART
15. Chlorobenzene	U		µg/kg	50	1.0	08/09/22	VJ22H09B	08/10/22 00:49	VJ22H09B	ART
16. Chloroethane	U		µg/kg	250	1.0	08/09/22	VJ22H09B	08/10/22 00:49	VJ22H09B	ART
17. Chloroform	U		µg/kg	50	1.0	08/09/22	VJ22H09B	08/10/22 00:49	VJ22H09B	ART
18. Chloromethane	U		µg/kg	250	1.0	08/09/22	VJ22H09B	08/10/22 00:49	VJ22H09B	ART
19. 2-Chlorotoluene	U		µg/kg	50	1.0	08/09/22	VJ22H09B	08/10/22 00:49	VJ22H09B	ART
‡ 20. 1,2-Dibromo-3-chloropropane (SIM)	U		µg/kg	250	1.0	08/09/22	VJ22H09B	08/10/22 00:49	VJ22H09B	ART
21. Dibromochloromethane	U		µg/kg	100	1.0	08/09/22	VJ22H09B	08/10/22 00:49	VJ22H09B	ART
22. Dibromomethane	U		µg/kg	250	1.0	08/09/22	VJ22H09B	08/10/22 00:49	VJ22H09B	ART

Client Identification:	**AKT Peerless Environ. Svcs, Inc. - Farm. Hills**	Sample Description:	**Location D**	Chain of Custody:	**206311**
Client Project Name:	**13038F-3-20**	Sample No:		Collect Date:	**08/05/22**
Client Project No:	**13038F-3-20**	Sample Matrix:	**Soil/Solid**	Collect Time:	**09:50**

Sample Comments: **Soil results have been calculated and reported on a dry weight basis unless otherwise noted.**

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable ‡: Parameter not included in NELAC Scope of Analysis.

Volatile Organic Compounds (VOCs) by GC/MS, 5035 **Aliquot ID: A10144-007A** **Matrix: Soil/Solid**
Method: EPA 5035A/EPA 8260D **Description: Location D**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation P. Date	Preparation P. Batch	Analysis A. Date	Analysis A. Batch	Init.
23. 1,2-Dichlorobenzene	U		µg/kg	100	1.0	08/09/22	VJ22H09B	08/10/22 00:49	VJ22H09B	ART
24. 1,3-Dichlorobenzene	U		µg/kg	100	1.0	08/09/22	VJ22H09B	08/10/22 00:49	VJ22H09B	ART
25. 1,4-Dichlorobenzene	U		µg/kg	100	1.0	08/09/22	VJ22H09B	08/10/22 00:49	VJ22H09B	ART
26. Dichlorodifluoromethane	U		µg/kg	250	1.0	08/09/22	VJ22H09B	08/10/22 00:49	VJ22H09B	ART
27. 1,1-Dichloroethane	U		µg/kg	50	1.0	08/09/22	VJ22H09B	08/10/22 00:49	VJ22H09B	ART
28. 1,2-Dichloroethane	U		µg/kg	50	1.0	08/09/22	VJ22H09B	08/10/22 00:49	VJ22H09B	ART
29. 1,1-Dichloroethene	U	V+	µg/kg	50	1.0	08/09/22	VJ22H09B	08/10/22 00:49	VJ22H09B	ART
30. cis-1,2-Dichloroethene	U		µg/kg	50	1.0	08/09/22	VJ22H09B	08/10/22 00:49	VJ22H09B	ART
31. trans-1,2-Dichloroethene	U		µg/kg	50	1.0	08/09/22	VJ22H09B	08/10/22 00:49	VJ22H09B	ART
32. 1,2-Dichloropropane	U		µg/kg	50	1.0	08/09/22	VJ22H09B	08/10/22 00:49	VJ22H09B	ART
33. cis-1,3-Dichloropropene	U		µg/kg	50	1.0	08/09/22	VJ22H09B	08/10/22 00:49	VJ22H09B	ART
34. trans-1,3-Dichloropropene	U		µg/kg	50	1.0	08/09/22	VJ22H09B	08/10/22 00:49	VJ22H09B	ART
35. Ethylbenzene	U		µg/kg	50	1.0	08/09/22	VJ22H09B	08/10/22 00:49	VJ22H09B	ART
36. Ethylene Dibromide	U		µg/kg	50	1.0	08/09/22	VJ22H09B	08/10/22 00:49	VJ22H09B	ART
37. 2-Hexanone	U		µg/kg	2500	1.0	08/09/22	VJ22H09B	08/10/22 00:49	VJ22H09B	ART
38. Isopropylbenzene	U		µg/kg	250	1.0	08/09/22	VJ22H09B	08/10/22 00:49	VJ22H09B	ART
39. 4-Methyl-2-pentanone	U		µg/kg	2500	1.0	08/09/22	VJ22H09B	08/10/22 00:49	VJ22H09B	ART
40. Methylene Chloride	U		µg/kg	100	1.0	08/09/22	VJ22H09B	08/10/22 00:49	VJ22H09B	ART
‡ 41. 2-Methylnaphthalene	U		µg/kg	330	1.0	08/09/22	VJ22H09B	08/10/22 00:49	VJ22H09B	ART
42. MTBE	U		µg/kg	250	1.0	08/09/22	VJ22H09B	08/10/22 00:49	VJ22H09B	ART
43. Naphthalene	U		µg/kg	330	1.0	08/09/22	VJ22H09B	08/10/22 00:49	VJ22H09B	ART
44. n-Propylbenzene	U		µg/kg	100	1.0	08/09/22	VJ22H09B	08/10/22 00:49	VJ22H09B	ART
45. Styrene	U		µg/kg	50	1.0	08/09/22	VJ22H09B	08/10/22 00:49	VJ22H09B	ART
46. 1,1,1,2-Tetrachloroethane	U		µg/kg	100	1.0	08/09/22	VJ22H09B	08/10/22 00:49	VJ22H09B	ART
47. 1,1,2,2-Tetrachloroethane	U		µg/kg	50	1.0	08/09/22	VJ22H09B	08/10/22 00:49	VJ22H09B	ART
48. Tetrachloroethene	U		µg/kg	50	1.0	08/09/22	VJ22H09B	08/10/22 00:49	VJ22H09B	ART
49. Toluene	U		µg/kg	50	1.0	08/09/22	VJ22H09B	08/10/22 00:49	VJ22H09B	ART
50. 1,2,4-Trichlorobenzene	U		µg/kg	250	1.0	08/09/22	VJ22H09B	08/10/22 00:49	VJ22H09B	ART
51. 1,1,1-Trichloroethane	U		µg/kg	50	1.0	08/09/22	VJ22H09B	08/10/22 00:49	VJ22H09B	ART
52. 1,1,2-Trichloroethane	U		µg/kg	50	1.0	08/09/22	VJ22H09B	08/10/22 00:49	VJ22H09B	ART
53. Trichloroethene	U		µg/kg	50	1.0	08/09/22	VJ22H09B	08/10/22 00:49	VJ22H09B	ART
54. Trichlorofluoromethane	U		µg/kg	100	1.0	08/09/22	VJ22H09B	08/10/22 00:49	VJ22H09B	ART
55. 1,2,3-Trichloropropane	U		µg/kg	100	1.0	08/09/22	VJ22H09B	08/10/22 00:49	VJ22H09B	ART
‡ 56. 1,2,3-Trimethylbenzene	U		µg/kg	100	1.0	08/09/22	VJ22H09B	08/10/22 00:49	VJ22H09B	ART
57. 1,2,4-Trimethylbenzene	U		µg/kg	100	1.0	08/09/22	VJ22H09B	08/10/22 00:49	VJ22H09B	ART
58. 1,3,5-Trimethylbenzene	U		µg/kg	100	1.0	08/09/22	VJ22H09B	08/10/22 00:49	VJ22H09B	ART
59. Vinyl Chloride	U		µg/kg	40	1.0	08/09/22	VJ22H09B	08/10/22 00:49	VJ22H09B	ART

Client Identification:	**AKT Peerless Environ. Svcs, Inc. - Farm. Hills**	Sample Description:	**Location D**	Chain of Custody:	**206311**
Client Project Name:	**13038F-3-20**	Sample No:		Collect Date:	**08/05/22**
Client Project No:	**13038F-3-20**	Sample Matrix:	**Soil/Solid**	Collect Time:	**09:50**

Sample Comments: **Soil results have been calculated and reported on a dry weight basis unless otherwise noted.**

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable ‡: Parameter not included in NELAC Scope of Analysis.

Volatile Organic Compounds (VOCs) by GC/MS, 5035 **Aliquot ID: A10144-007A** **Matrix: Soil/Solid**
Method: EPA 5035A/EPA 8260D **Description: Location D**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation P. Date	Preparation P. Batch	Analysis A. Date	Analysis A. Batch	Init.
60. m&p-Xylene	U		µg/kg	100	1.0	08/09/22	VJ22H09B	08/10/22 00:49	VJ22H09B	ART
61. o-Xylene	U		µg/kg	50	1.0	08/09/22	VJ22H09B	08/10/22 00:49	VJ22H09B	ART
‡ 62. Xylenes	U		µg/kg	150	1.0	08/09/22	VJ22H09B	08/10/22 00:49	VJ22H09B	ART

Base/Neutral/Acid Semivolatiles by GC/MS **Aliquot ID: A10144-007** **Matrix: Soil/Solid**
Method: EPA 3550C/EPA 8270E **Description: Location D**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation P. Date	Preparation P. Batch	Analysis A. Date	Analysis A. Batch	Init.
1. Acenaphthene	U		µg/kg	330	1.0	08/11/22	PS22H10K	08/17/22 13:42	S622H17A	ALS
2. Acenaphthylene	U		µg/kg	330	1.0	08/11/22	PS22H10K	08/17/22 13:42	S622H17A	ALS
3. Aniline	U		µg/kg	330	1.0	08/11/22	PS22H10K	08/17/22 13:42	S622H17A	ALS
4. Anthracene	U		µg/kg	330	1.0	08/11/22	PS22H10K	08/17/22 13:42	S622H17A	ALS
‡ 5. Azobenzene	U		µg/kg	330	1.0	08/11/22	PS22H10K	08/17/22 13:42	S622H17A	ALS
6. Benzo(a)anthracene	U		µg/kg	330	1.0	08/11/22	PS22H10K	08/17/22 13:42	S622H17A	ALS
7. Benzo(a)pyrene	U		µg/kg	330	1.0	08/11/22	PS22H10K	08/17/22 13:42	S622H17A	ALS
8. Benzo(b)fluoranthene	U		µg/kg	330	1.0	08/11/22	PS22H10K	08/17/22 13:42	S622H17A	ALS
9. Benzo(ghi)perylene	U		µg/kg	330	1.0	08/11/22	PS22H10K	08/17/22 13:42	S622H17A	ALS
10. Benzo(k)fluoranthene	U		µg/kg	330	1.0	08/11/22	PS22H10K	08/17/22 13:42	S622H17A	ALS
11. Benzyl Alcohol	U		µg/kg	3300	1.0	08/11/22	PS22H10K	08/17/22 13:42	S622H17A	ALS
12. Bis(2-chloroethoxy)methane	U		µg/kg	330	1.0	08/11/22	PS22H10K	08/17/22 13:42	S622H17A	ALS
13. Bis(2-chloroethyl)ether	U		µg/kg	100	1.0	08/11/22	PS22H10K	08/17/22 13:42	S622H17A	ALS
14. Bis(2-ethylhexyl)phthalate	U		µg/kg	330	1.0	08/11/22	PS22H10K	08/17/22 13:42	S622H17A	ALS
15. 4-Bromophenyl Phenylether	U		µg/kg	330	1.0	08/11/22	PS22H10K	08/17/22 13:42	S622H17A	ALS
16. Butyl Benzyl Phthalate	U		µg/kg	330	1.0	08/11/22	PS22H10K	08/17/22 13:42	S622H17A	ALS
17. Di-n-butyl Phthalate	U		µg/kg	330	1.0	08/11/22	PS22H10K	08/17/22 13:42	S622H17A	ALS
‡ 18. Carbazole	U		µg/kg	330	1.0	08/11/22	PS22H10K	08/17/22 13:42	S622H17A	ALS
19. 4-Chloro-3-methylphenol	U		µg/kg	280	1.0	08/11/22	PS22H10K	08/17/22 13:42	S622H17A	ALS
20. 2-Chloronaphthalene	U		µg/kg	330	1.0	08/11/22	PS22H10K	08/17/22 13:42	S622H17A	ALS
21. 2-Chlorophenol	U		µg/kg	330	1.0	08/11/22	PS22H10K	08/17/22 13:42	S622H17A	ALS
22. 4-Chlorophenyl Phenylether	U		µg/kg	330	1.0	08/11/22	PS22H10K	08/17/22 13:42	S622H17A	ALS
23. Chrysene	U		µg/kg	330	1.0	08/11/22	PS22H10K	08/17/22 13:42	S622H17A	ALS
24. Dibenzo(a,h)anthracene	U		µg/kg	330	1.0	08/11/22	PS22H10K	08/17/22 13:42	S622H17A	ALS
25. Dibenzofuran	U		µg/kg	330	1.0	08/11/22	PS22H10K	08/17/22 13:42	S622H17A	ALS
26. 2,4-Dichlorophenol	U		µg/kg	330	1.0	08/11/22	PS22H10K	08/17/22 13:42	S622H17A	ALS
27. Diethyl Phthalate	U		µg/kg	330	1.0	08/11/22	PS22H10K	08/17/22 13:42	S622H17A	ALS
28. 2,4-Dimethylphenol	U		µg/kg	330	1.0	08/11/22	PS22H10K	08/17/22 13:42	S622H17A	ALS

Client Identification:	**AKT Peerless Environ. Svcs, Inc. - Farm. Hills**	Sample Description:	**Location D**	Chain of Custody:	**206311**
Client Project Name:	**13038F-3-20**	Sample No:		Collect Date:	**08/05/22**
Client Project No:	**13038F-3-20**	Sample Matrix:	**Soil/Solid**	Collect Time:	**09:50**

Sample Comments: **Soil results have been calculated and reported on a dry weight basis unless otherwise noted.**

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable ‡: Parameter not included in NELAC Scope of Analysis.

Base/Neutral/Acid Semivolatiles by GC/MS **Aliquot ID: A10144-007** **Matrix: Soil/Solid**
Method: EPA 3550C/EPA 8270E **Description: Location D**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation P. Date	Preparation P. Batch	Analysis A. Date	Analysis A. Batch	Init.
29. Dimethyl Phthalate	U		µg/kg	330	1.0	08/11/22	PS22H10K	08/17/22 13:42	S622H17A	ALS
30. 2,4-Dinitrophenol	U		µg/kg	830	1.0	08/11/22	PS22H10K	08/17/22 13:42	S622H17A	ALS
‡ 31. 2,4-Dinitrotoluene	U		µg/kg	330	1.0	08/11/22	PS22H10K	08/17/22 13:42	S622H17A	ALS
‡ 32. 2,6-Dinitrotoluene	U		µg/kg	330	1.0	08/11/22	PS22H10K	08/17/22 13:42	S622H17A	ALS
33. Fluoranthene	U		µg/kg	330	1.0	08/11/22	PS22H10K	08/17/22 13:42	S622H17A	ALS
34. Fluorene	U		µg/kg	330	1.0	08/11/22	PS22H10K	08/17/22 13:42	S622H17A	ALS
35. Hexachlorobenzene	U		µg/kg	330	1.0	08/11/22	PS22H10K	08/17/22 13:42	S622H17A	ALS
36. Hexachlorobutadiene	U		µg/kg	330	1.0	08/11/22	PS22H10K	08/17/22 13:42	S622H17A	ALS
37. Hexachlorocyclopentadiene	U		µg/kg	330	1.0	08/11/22	PS22H10K	08/17/22 13:42	S622H17A	ALS
38. Hexachloroethane	U		µg/kg	330	1.0	08/11/22	PS22H10K	08/17/22 13:42	S622H17A	ALS
39. Indeno(1,2,3-cd)pyrene	U		µg/kg	330	1.0	08/11/22	PS22H10K	08/17/22 13:42	S622H17A	ALS
‡ 40. Isophorone	U	L+	µg/kg	330	1.0	08/11/22	PS22H10K	08/17/22 13:42	S622H17A	ALS
41. 2-Methyl-4,6-dinitrophenol	U		µg/kg	830	1.0	08/11/22	PS22H10K	08/17/22 13:42	S622H17A	ALS
42. 2-Methylnaphthalene	U		µg/kg	330	1.0	08/11/22	PS22H10K	08/17/22 13:42	S622H17A	ALS
43. 2-Methylphenol	U		µg/kg	330	1.0	08/11/22	PS22H10K	08/17/22 13:42	S622H17A	ALS
‡ 44. 3&4-Methylphenol	U		µg/kg	660	1.0	08/11/22	PS22H10K	08/17/22 13:42	S622H17A	ALS
45. Naphthalene	U		µg/kg	330	1.0	08/11/22	PS22H10K	08/17/22 13:42	S622H17A	ALS
46. 2-Nitroaniline	U		µg/kg	330	1.0	08/11/22	PS22H10K	08/17/22 13:42	S622H17A	ALS
47. 3-Nitroaniline	U		µg/kg	830	1.0	08/11/22	PS22H10K	08/17/22 13:42	S622H17A	ALS
48. 4-Nitroaniline	U		µg/kg	830	1.0	08/11/22	PS22H10K	08/17/22 13:42	S622H17A	ALS
49. Nitrobenzene	U		µg/kg	330	1.0	08/11/22	PS22H10K	08/17/22 13:42	S622H17A	ALS
50. 2-Nitrophenol	U		µg/kg	330	1.0	08/11/22	PS22H10K	08/17/22 13:42	S622H17A	ALS
51. 4-Nitrophenol	U	L-	µg/kg	830	1.0	08/11/22	PS22H10K	08/17/22 13:42	S622H17A	ALS
52. N-Nitrosodimethylamine	U		µg/kg	330	1.0	08/11/22	PS22H10K	08/17/22 13:42	S622H17A	ALS
53. N-Nitrosodi-n-propylamine	U		µg/kg	330	1.0	08/11/22	PS22H10K	08/17/22 13:42	S622H17A	ALS
54. N-Nitrosodiphenylamine	U		µg/kg	330	1.0	08/11/22	PS22H10K	08/17/22 13:42	S622H17A	ALS
55. Di-n-octyl Phthalate	U		µg/kg	330	1.0	08/11/22	PS22H10K	08/17/22 13:42	S622H17A	ALS
56. 2,2'-Oxybis(1-chloropropane)	U		µg/kg	330	1.0	08/11/22	PS22H10K	08/17/22 13:42	S622H17A	ALS
57. Pentachlorophenol	U	L-	µg/kg	820	1.0	08/11/22	PS22H10K	08/17/22 13:42	S622H17A	ALS
58. Phenanthrene	U		µg/kg	330	1.0	08/11/22	PS22H10K	08/17/22 13:42	S622H17A	ALS
59. Phenol	U		µg/kg	330	1.0	08/11/22	PS22H10K	08/17/22 13:42	S622H17A	ALS
60. Pyrene	U		µg/kg	330	1.0	08/11/22	PS22H10K	08/17/22 13:42	S622H17A	ALS
61. Pyridine	U		µg/kg	330	1.0	08/11/22	PS22H10K	08/17/22 13:42	S622H17A	ALS
‡ 62. 1,2,4-Trichlorobenzene	U		µg/kg	330	1.0	08/11/22	PS22H10K	08/17/22 13:42	S622H17A	ALS
63. 2,4,5-Trichlorophenol	U		µg/kg	330	1.0	08/11/22	PS22H10K	08/17/22 13:42	S622H17A	ALS
64. 2,4,6-Trichlorophenol	U		µg/kg	330	1.0	08/11/22	PS22H10K	08/17/22 13:42	S622H17A	ALS

Client Identification:	**AKT Peerless Environ. Svcs, Inc. - Farm. Hills**	Sample Description:	**Location D**	Chain of Custody:	**206311**
Client Project Name:	**13038F-3-20**	Sample No:		Collect Date:	**08/05/22**
Client Project No:	**13038F-3-20**	Sample Matrix:	**Surface Water**	Collect Time:	**09:38**

Sample Comments:

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable ‡: Parameter not included in NELAC Scope of Analysis.

Michigan 10 Elements by ICP/MS, Dissolved **Aliquot ID: A10144-008C** **Matrix: Surface Water**
Method: EPA 0200.8 (Dissolved)/EPA 0200.8 **Description: Location D**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation P. Date	Preparation P. Batch	Analysis A. Date	Analysis A. Batch	Init.
1. Arsenic	U		mg/L	0.0050	10	08/09/22	PT22H09B	08/09/22	T422H09B	CJA
2. Barium	U		mg/L	0.10	10	08/09/22	PT22H09B	08/09/22	T422H09B	CJA
3. Cadmium	U		mg/L	0.0010	10	08/09/22	PT22H09B	08/09/22	T422H09B	CJA
4. Chromium	U		mg/L	0.010	10	08/09/22	PT22H09B	08/09/22	T422H09B	CJA
5. Copper	U		mg/L	0.0040	10	08/09/22	PT22H09B	08/09/22	T422H09B	CJA
6. Lead	U		mg/L	0.0030	10	08/09/22	PT22H09B	08/09/22	T422H09B	CJA
7. Selenium	U		mg/L	0.0050	10	08/09/22	PT22H09B	08/09/22	T422H09B	CJA
8. Silver	U		mg/L	0.00020	10	08/09/22	PT22H09B	08/09/22	T422H09B	CJA
9. Zinc	U		mg/L	0.050	10	08/09/22	PT22H09B	08/09/22	T422H09B	CJA

Mercury by CVAAS, Dissolved **Aliquot ID: A10144-008C** **Matrix: Surface Water**
Method: EPA 0245.1 **Description: Location D**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation P. Date	Preparation P. Batch	Analysis A. Date	Analysis A. Batch	Init.
1. Mercury	U		mg/L	0.00020	1.0	08/10/22	PM22H10B	08/10/22	M722H10A	JLH

Polychlorinated Biphenyls (PCBs) **Aliquot ID: A10144-008** **Matrix: Surface Water**
Method: EPA 0608.3 **Description: Location D**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation P. Date	Preparation P. Batch	Analysis A. Date	Analysis A. Batch	Init.
1. Aroclor-1016	U		mg/L	0.000200	1.0	08/09/22	PS22H09G	08/10/22 14:58	SO22H10A	TKT
2. Aroclor-1221	U		mg/L	0.000200	1.0	08/09/22	PS22H09G	08/10/22 14:58	SO22H10A	TKT
3. Aroclor-1232	U		mg/L	0.000200	1.0	08/09/22	PS22H09G	08/10/22 14:58	SO22H10A	TKT
4. Aroclor-1242	U		mg/L	0.000200	1.0	08/09/22	PS22H09G	08/10/22 14:58	SO22H10A	TKT
5. Aroclor-1248	U		mg/L	0.000200	1.0	08/09/22	PS22H09G	08/10/22 14:58	SO22H10A	TKT
6. Aroclor-1254	U		mg/L	0.000200	1.0	08/09/22	PS22H09G	08/10/22 14:58	SO22H10A	TKT
7. Aroclor-1260	U		mg/L	0.000200	1.0	08/09/22	PS22H09G	08/10/22 14:58	SO22H10A	TKT
‡ 8. Aroclor-1262	U		mg/L	0.000200	1.0	08/09/22	PS22H09G	08/10/22 14:58	SO22H10A	TKT
‡ 9. Aroclor-1268	U		mg/L	0.000200	1.0	08/09/22	PS22H09G	08/10/22 14:58	SO22H10A	TKT

Organochlorine Pesticides **Aliquot ID: A10144-008** **Matrix: Surface Water**
Method: EPA 0608.3 **Description: Location D**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation P. Date	Preparation P. Batch	Analysis A. Date	Analysis A. Batch	Init.
1. Aldrin	U		mg/L	0.0000100	1.0	08/09/22	PS22H09G	08/09/22 18:39	SO22H09C	TKT

Client Identification:	**AKT Peerless Environ. Svcs, Inc. - Farm. Hills**	Sample Description:	**Location D**	Chain of Custody:	**206311**
Client Project Name:	**13038F-3-20**	Sample No:		Collect Date:	**08/05/22**
Client Project No:	**13038F-3-20**	Sample Matrix:	**Surface Water**	Collect Time:	**09:38**

Sample Comments:

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable ‡: Parameter not included in NELAC Scope of Analysis.

Organochlorine Pesticides **Aliquot ID: A10144-008** **Matrix: Surface Water**
Method: EPA 0608.3 **Description: Location D**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation P. Date	Preparation P. Batch	Analysis A. Date	Analysis A. Batch	Init.
2. alpha-BHC	U		mg/L	0.0000100	1.0	08/09/22	PS22H09G	08/09/22 18:39	SO22H09C	TKT
3. beta-BHC	U	L+	mg/L	0.0000100	1.0	08/09/22	PS22H09G	08/09/22 18:39	SO22H09C	TKT
4. delta-BHC	U	L+	mg/L	0.0000100	1.0	08/09/22	PS22H09G	08/09/22 18:39	SO22H09C	TKT
5. gamma-BHC	U		mg/L	0.0000100	1.0	08/09/22	PS22H09G	08/09/22 18:39	SO22H09C	TKT
6. Chlordane	U		mg/L	0.0000500	1.0	08/09/22	PS22H09G	08/09/22 18:39	SO22H09C	TKT
7. 4,4'-DDD	U		mg/L	0.0000200	1.0	08/09/22	PS22H09G	08/09/22 18:39	SO22H09C	TKT
8. 4,4'-DDE	U		mg/L	0.0000200	1.0	08/09/22	PS22H09G	08/09/22 18:39	SO22H09C	TKT
9. 4,4'-DDT	U	L+	mg/L	0.0000200	1.0	08/09/22	PS22H09G	08/09/22 18:39	SO22H09C	TKT
10. Dieldrin	U		mg/L	0.0000200	1.0	08/09/22	PS22H09G	08/09/22 18:39	SO22H09C	TKT
11. Endosulfan I	U		mg/L	0.000500	1.0	08/09/22	PS22H09G	08/09/22 18:39	SO22H09C	TKT
12. Endosulfan II	U		mg/L	0.0000200	1.0	08/09/22	PS22H09G	08/09/22 18:39	SO22H09C	TKT
13. Endosulfan Sulfate	U		mg/L	0.0000500	1.0	08/09/22	PS22H09G	08/09/22 18:39	SO22H09C	TKT
14. Endrin	U		mg/L	0.0000200	1.0	08/09/22	PS22H09G	08/09/22 18:39	SO22H09C	TKT
15. Endrin Aldehyde	U		mg/L	0.0000200	1.0	08/09/22	PS22H09G	08/09/22 18:39	SO22H09C	TKT
16. Heptachlor	U		mg/L	0.0000100	1.0	08/09/22	PS22H09G	08/09/22 18:39	SO22H09C	TKT
17. Heptachlor Epoxide	U		mg/L	0.0000100	1.0	08/09/22	PS22H09G	08/09/22 18:39	SO22H09C	TKT
18. Methoxychlor	U	L+	mg/L	0.000500	1.0	08/09/22	PS22H09G	08/09/22 18:39	SO22H09C	TKT
19. Toxaphene	U		mg/L	0.00100	1.0	08/09/22	PS22H09G	08/09/22 18:39	SO22H09C	TKT

Organochlorine Herbicides **Aliquot ID: A10144-008** **Matrix: Surface Water**
Method: EPA 0615 **Description: Location D**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation P. Date	Preparation P. Batch	Analysis A. Date	Analysis A. Batch	Init.
‡ 1. 2,4-D	U		µg/L	10	5.0	08/09/22	PS22H09H	08/10/22 20:24	SC22H10A	TKT
‡ 2. Dalapon	U	V+	µg/L	10	5.0	08/09/22	PS22H09H	08/10/22 20:24	SC22H10A	TKT
‡ 3. 2,4-DB	U		µg/L	10	5.0	08/09/22	PS22H09H	08/10/22 20:24	SC22H10A	TKT
‡ 4. Dicamba	U	V+	µg/L	1.0	5.0	08/09/22	PS22H09H	08/10/22 20:24	SC22H10A	TKT
‡ 5. Dichlorprop	U		µg/L	10	5.0	08/09/22	PS22H09H	08/10/22 20:24	SC22H10A	TKT
‡ 6. Dinoseb	U	V+	µg/L	5.0	5.0	08/09/22	PS22H09H	08/10/22 20:24	SC22H10A	TKT
‡ 7. 2,4,5-T	U		µg/L	1.0	5.0	08/09/22	PS22H09H	08/10/22 20:24	SC22H10A	TKT
‡ 8. 2,4,5-TP	U		µg/L	1.0	5.0	08/09/22	PS22H09H	08/10/22 20:24	SC22H10A	TKT

Fibertec environmental services

Analytical Laboratory Report
Laboratory Project Number: A10144
Laboratory Sample Number: A10144-008

Order: A10144
Date: 08/23/22

Client Identification:	**AKT Peerless Environ. Svcs, Inc. - Farm. Hills**	Sample Description:	**Location D**	Chain of Custody:	**206311**
Client Project Name:	**13038F-3-20**	Sample No:		Collect Date:	**08/05/22**
Client Project No:	**13038F-3-20**	Sample Matrix:	**Surface Water**	Collect Time:	**09:38**

Sample Comments:

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable ‡: Parameter not included in NELAC Scope of Analysis.

Volatile Organic Compounds (VOCs) by GC/MS **Aliquot ID: A10144-008B** **Matrix: Surface Water**
Method: EPA 0624.1 **Description: Location D**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation P. Date	Preparation P. Batch	Analysis A. Date	Analysis A. Batch	Init.
1. Acetone	U		mg/L	0.0500	1.0	08/12/22	VM22H12A	08/12/22 20:18	VM22H12A	SNC
2. Acrylonitrile	U		mg/L	0.00200	1.0	08/12/22	VM22H12A	08/12/22 20:18	VM22H12A	SNC
3. Benzene	U		mg/L	0.00100	1.0	08/12/22	VM22H12A	08/12/22 20:18	VM22H12A	SNC
‡ 4. Bromobenzene	U		mg/L	0.00100	1.0	08/12/22	VM22H12A	08/12/22 20:18	VM22H12A	SNC
‡ 5. Bromochloromethane	U		mg/L	0.00100	1.0	08/12/22	VM22H12A	08/12/22 20:18	VM22H12A	SNC
6. Bromodichloromethane	U		mg/L	0.00100	1.0	08/12/22	VM22H12A	08/12/22 20:18	VM22H12A	SNC
7. Bromoform	U		mg/L	0.00100	1.0	08/12/22	VM22H12A	08/12/22 20:18	VM22H12A	SNC
8. Bromomethane	U		mg/L	0.00500	1.0	08/12/22	VM22H12A	08/12/22 20:18	VM22H12A	SNC
9. 2-Butanone	U		mg/L	0.0250	1.0	08/12/22	VM22H12A	08/12/22 20:18	VM22H12A	SNC
‡ 10. n-Butylbenzene	U		mg/L	0.00100	1.0	08/12/22	VM22H12A	08/12/22 20:18	VM22H12A	SNC
‡ 11. sec-Butylbenzene	U		mg/L	0.00100	1.0	08/12/22	VM22H12A	08/12/22 20:18	VM22H12A	SNC
‡ 12. tert-Butylbenzene	U		mg/L	0.00100	1.0	08/12/22	VM22H12A	08/12/22 20:18	VM22H12A	SNC
‡ 13. Carbon Disulfide	U		mg/L	0.00500	1.0	08/12/22	VM22H12A	08/12/22 20:18	VM22H12A	SNC
14. Carbon Tetrachloride	U	V+	mg/L	0.00100	1.0	08/12/22	VM22H12A	08/12/22 20:18	VM22H12A	SNC
15. Chlorobenzene	U		mg/L	0.00100	1.0	08/12/22	VM22H12A	08/12/22 20:18	VM22H12A	SNC
16. Chloroethane	U		mg/L	0.00500	1.0	08/12/22	VM22H12A	08/12/22 20:18	VM22H12A	SNC
17. Chloroform	U		mg/L	0.00100	1.0	08/12/22	VM22H12A	08/12/22 20:18	VM22H12A	SNC
18. Chloromethane	U		mg/L	0.00500	1.0	08/12/22	VM22H12A	08/12/22 20:18	VM22H12A	SNC
‡ 19. 2-Chlorotoluene	U		mg/L	0.00500	1.0	08/12/22	VM22H12A	08/12/22 20:18	VM22H12A	SNC
‡ 20. 1,2-Dibromo-3-chloropropane (SIM)	U		mg/L	0.00100	1.0	08/12/22	VM22H12A	08/12/22 20:18	VM22H12A	SNC
21. Dibromochloromethane	U	V+	mg/L	0.00500	1.0	08/12/22	VM22H12A	08/12/22 20:18	VM22H12A	SNC
‡ 22. Dibromomethane	U		mg/L	0.00500	1.0	08/12/22	VM22H12A	08/12/22 20:18	VM22H12A	SNC
23. 1,2-Dichlorobenzene	U		mg/L	0.00100	1.0	08/12/22	VM22H12A	08/12/22 20:18	VM22H12A	SNC
24. 1,3-Dichlorobenzene	U		mg/L	0.00100	1.0	08/12/22	VM22H12A	08/12/22 20:18	VM22H12A	SNC
25. 1,4-Dichlorobenzene	U		mg/L	0.00100	1.0	08/12/22	VM22H12A	08/12/22 20:18	VM22H12A	SNC
‡ 26. Dichlorodifluoromethane	U		mg/L	0.00500	1.0	08/12/22	VM22H12A	08/12/22 20:18	VM22H12A	SNC
27. 1,1-Dichloroethane	U		mg/L	0.00100	1.0	08/12/22	VM22H12A	08/12/22 20:18	VM22H12A	SNC
28. 1,2-Dichloroethane	U		mg/L	0.00100	1.0	08/12/22	VM22H12A	08/12/22 20:18	VM22H12A	SNC
29. 1,1-Dichloroethene	U		mg/L	0.00100	1.0	08/12/22	VM22H12A	08/12/22 20:18	VM22H12A	SNC
30. cis-1,2-Dichloroethene	U		mg/L	0.00100	1.0	08/12/22	VM22H12A	08/12/22 20:18	VM22H12A	SNC
31. trans-1,2-Dichloroethene	U		mg/L	0.00100	1.0	08/12/22	VM22H12A	08/12/22 20:18	VM22H12A	SNC
32. 1,2-Dichloropropane	U		mg/L	0.00100	1.0	08/12/22	VM22H12A	08/12/22 20:18	VM22H12A	SNC
33. cis-1,3-Dichloropropene	U		mg/L	0.000500	1.0	08/12/22	VM22H12A	08/12/22 20:18	VM22H12A	SNC
34. trans-1,3-Dichloropropene	U		mg/L	0.000500	1.0	08/12/22	VM22H12A	08/12/22 20:18	VM22H12A	SNC
35. Ethylbenzene	U		mg/L	0.00100	1.0	08/12/22	VM22H12A	08/12/22 20:18	VM22H12A	SNC
36. Ethylene Dibromide	U		mg/L	0.00100	1.0	08/12/22	VM22H12A	08/12/22 20:18	VM22H12A	SNC
‡ 37. 2-Hexanone	U		mg/L	0.0500	1.0	08/12/22	VM22H12A	08/12/22 20:18	VM22H12A	SNC

1914 Holloway Drive *Holt, MI 48842* *T: (517) 699-0345* *F: (517) 699-0388*
11766 E Grand River *Brighton, MI 48116* *T: (810) 220-3300* *F: (810) 220-3311*
8660 S Mackinaw Trail *Cadillac, MI 49601* *T: (231) 775-8368* *F: (231) 775-8584*

Fibertec environmental services

Analytical Laboratory Report
Laboratory Project Number: A10144
Laboratory Sample Number: A10144-008

Order: A10144
Date: 08/23/22

Client Identification:	**AKT Peerless Environ. Svcs, Inc. - Farm. Hills**	Sample Description:	**Location D**	Chain of Custody:	**206311**
Client Project Name:	**13038F-3-20**	Sample No:		Collect Date:	**08/05/22**
Client Project No:	**13038F-3-20**	Sample Matrix:	**Surface Water**	Collect Time:	**09:38**

Sample Comments:

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable ‡: Parameter not included in NELAC Scope of Analysis.

Volatile Organic Compounds (VOCs) by GC/MS **Aliquot ID: A10144-008B** **Matrix: Surface Water**
Method: EPA 0624.1 **Description: Location D**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation P. Date	Preparation P. Batch	Analysis A. Date	Analysis A. Batch	Init.
‡ 38. Isopropylbenzene	U		mg/L	0.00500	1.0	08/12/22	VM22H12A	08/12/22 20:18	VM22H12A	SNC
‡ 39. 4-Methyl-2-pentanone	U		mg/L	0.0500	1.0	08/12/22	VM22H12A	08/12/22 20:18	VM22H12A	SNC
40. Methylene Chloride	U		mg/L	0.00500	1.0	08/12/22	VM22H12A	08/12/22 20:18	VM22H12A	SNC
‡ 41. 2-Methylnaphthalene	U		mg/L	0.00500	1.0	08/12/22	VM22H12A	08/12/22 20:18	VM22H12A	SNC
42. MTBE	U		mg/L	0.00500	1.0	08/12/22	VM22H12A	08/12/22 20:18	VM22H12A	SNC
43. Naphthalene	U		mg/L	0.00500	1.0	08/12/22	VM22H12A	08/12/22 20:18	VM22H12A	SNC
‡ 44. n-Propylbenzene	U		mg/L	0.00100	1.0	08/12/22	VM22H12A	08/12/22 20:18	VM22H12A	SNC
‡ 45. Styrene	U		mg/L	0.00100	1.0	08/12/22	VM22H12A	08/12/22 20:18	VM22H12A	SNC
‡ 46. 1,1,1,2-Tetrachloroethane	U		mg/L	0.00100	1.0	08/12/22	VM22H12A	08/12/22 20:18	VM22H12A	SNC
47. 1,1,2,2-Tetrachloroethane	U		mg/L	0.00100	1.0	08/12/22	VM22H12A	08/12/22 20:18	VM22H12A	SNC
48. Tetrachloroethene	U		mg/L	0.00100	1.0	08/12/22	VM22H12A	08/12/22 20:18	VM22H12A	SNC
49. Toluene	U		mg/L	0.00100	1.0	08/12/22	VM22H12A	08/12/22 20:18	VM22H12A	SNC
‡ 50. 1,2,4-Trichlorobenzene	U		mg/L	0.00500	1.0	08/12/22	VM22H12A	08/12/22 20:18	VM22H12A	SNC
51. 1,1,1-Trichloroethane	U		mg/L	0.00100	1.0	08/12/22	VM22H12A	08/12/22 20:18	VM22H12A	SNC
52. 1,1,2-Trichloroethane	U		mg/L	0.00100	1.0	08/12/22	VM22H12A	08/12/22 20:18	VM22H12A	SNC
53. Trichloroethene	U		mg/L	0.00100	1.0	08/12/22	VM22H12A	08/12/22 20:18	VM22H12A	SNC
54. Trichlorofluoromethane	U		mg/L	0.00100	1.0	08/12/22	VM22H12A	08/12/22 20:18	VM22H12A	SNC
‡ 55. 1,2,3-Trichloropropane	U		mg/L	0.00100	1.0	08/12/22	VM22H12A	08/12/22 20:18	VM22H12A	SNC
‡ 56. 1,2,3-Trimethylbenzene	U		mg/L	0.00100	1.0	08/12/22	VM22H12A	08/12/22 20:18	VM22H12A	SNC
‡ 57. 1,2,4-Trimethylbenzene	U		mg/L	0.00100	1.0	08/12/22	VM22H12A	08/12/22 20:18	VM22H12A	SNC
‡ 58. 1,3,5-Trimethylbenzene	U		mg/L	0.00100	1.0	08/12/22	VM22H12A	08/12/22 20:18	VM22H12A	SNC
59. Vinyl Chloride	U		mg/L	0.00100	1.0	08/12/22	VM22H12A	08/12/22 20:18	VM22H12A	SNC
60. m&p-Xylene	U		mg/L	0.00200	1.0	08/12/22	VM22H12A	08/12/22 20:18	VM22H12A	SNC
61. o-Xylene	U		mg/L	0.00100	1.0	08/12/22	VM22H12A	08/12/22 20:18	VM22H12A	SNC
62. Xylenes	U		mg/L	0.00300	1.0	08/12/22	VM22H12A	08/12/22 20:18	VM22H12A	SNC

Base/Neutral/Acid Semivolatiles by GC/MS **Aliquot ID: A10144-008** **Matrix: Surface Water**
Method: EPA 0625.1 **Description: Location D**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation P. Date	Preparation P. Batch	Analysis A. Date	Analysis A. Batch	Init.
1. Acenaphthene	U		µg/L	5.0	1.0	08/11/22	PS22H11F	08/17/22 11:07	S622H17A	ALS
2. Acenaphthylene	U		µg/L	5.0	1.0	08/11/22	PS22H11F	08/17/22 11:07	S622H17A	ALS
‡ 3. Aniline	U		µg/L	4.0	1.0	08/11/22	PS22H11F	08/17/22 11:07	S622H17A	ALS
4. Anthracene	U		µg/L	5.0	1.0	08/11/22	PS22H11F	08/17/22 11:07	S622H17A	ALS
‡ 5. Azobenzene	U		µg/L	5.0	1.0	08/11/22	PS22H11F	08/17/22 11:07	S622H17A	ALS
6. Benzo(a)anthracene	U		µg/L	1.0	1.0	08/11/22	PS22H11F	08/17/22 11:07	S622H17A	ALS

Client Identification:	**AKT Peerless Environ. Svcs, Inc. - Farm. Hills**	Sample Description:	**Location D**	Chain of Custody:	**206311**
Client Project Name:	**13038F-3-20**	Sample No:		Collect Date:	**08/05/22**
Client Project No:	**13038F-3-20**	Sample Matrix:	**Surface Water**	Collect Time:	**09:38**

Sample Comments:

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable ‡: Parameter not included in NELAC Scope of Analysis.

Base/Neutral/Acid Semivolatiles by GC/MS **Aliquot ID: A10144-008** **Matrix: Surface Water**
Method: EPA 0625.1 **Description: Location D**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation P. Date	Preparation P. Batch	Analysis A. Date	Analysis A. Batch	Init.
7. Benzo(a)pyrene	U		µg/L	1.0	1.0	08/11/22	PS22H11F	08/17/22 11:07	S622H17A	ALS
8. Benzo(b)fluoranthene	U		µg/L	1.0	1.0	08/11/22	PS22H11F	08/17/22 11:07	S622H17A	ALS
9. Benzo(ghi)perylene	U		µg/L	1.0	1.0	08/11/22	PS22H11F	08/17/22 11:07	S622H17A	ALS
10. Benzo(k)fluoranthene	U		µg/L	1.0	1.0	08/11/22	PS22H11F	08/17/22 11:07	S622H17A	ALS
‡ 11. Benzyl Alcohol	U		µg/L	5.0	1.0	08/11/22	PS22H11F	08/17/22 11:07	S622H17A	ALS
12. Bis(2-chloroethoxy)methane	U		µg/L	5.0	1.0	08/11/22	PS22H11F	08/17/22 11:07	S622H17A	ALS
13. Bis(2-chloroethyl)ether	U		µg/L	1.0	1.0	08/11/22	PS22H11F	08/17/22 11:07	S622H17A	ALS
14. Bis(2-ethylhexyl)phthalate	U		µg/L	5.0	1.0	08/11/22	PS22H11F	08/17/22 11:07	S622H17A	ALS
15. 4-Bromophenyl Phenylether	U		µg/L	5.0	1.0	08/11/22	PS22H11F	08/17/22 11:07	S622H17A	ALS
16. Butyl Benzyl Phthalate	U		µg/L	5.0	1.0	08/11/22	PS22H11F	08/17/22 11:07	S622H17A	ALS
17. Di-n-butyl Phthalate	U		µg/L	5.0	1.0	08/11/22	PS22H11F	08/17/22 11:07	S622H17A	ALS
‡ 18. Carbazole	U		µg/L	5.0	1.0	08/11/22	PS22H11F	08/17/22 11:07	S622H17A	ALS
19. 4-Chloro-3-methylphenol	U		µg/L	5.0	1.0	08/11/22	PS22H11F	08/17/22 11:07	S622H17A	ALS
20. 2-Chloronaphthalene	U		µg/L	5.0	1.0	08/11/22	PS22H11F	08/17/22 11:07	S622H17A	ALS
21. 2-Chlorophenol	U		µg/L	5.0	1.0	08/11/22	PS22H11F	08/17/22 11:07	S622H17A	ALS
22. 4-Chlorophenyl Phenylether	U		µg/L	5.0	1.0	08/11/22	PS22H11F	08/17/22 11:07	S622H17A	ALS
23. Chrysene	U		µg/L	1.0	1.0	08/11/22	PS22H11F	08/17/22 11:07	S622H17A	ALS
24. Dibenzo(a,h)anthracene	U		µg/L	2.0	1.0	08/11/22	PS22H11F	08/17/22 11:07	S622H17A	ALS
‡ 25. Dibenzofuran	U		µg/L	4.0	1.0	08/11/22	PS22H11F	08/17/22 11:07	S622H17A	ALS
26. 2,4-Dichlorophenol	U		µg/L	5.0	1.0	08/11/22	PS22H11F	08/17/22 11:07	S622H17A	ALS
27. Diethyl Phthalate	U		µg/L	5.0	1.0	08/11/22	PS22H11F	08/17/22 11:07	S622H17A	ALS
28. 2,4-Dimethylphenol	U		µg/L	5.0	1.0	08/11/22	PS22H11F	08/17/22 11:07	S622H17A	ALS
29. Dimethyl Phthalate	U		µg/L	5.0	1.0	08/11/22	PS22H11F	08/17/22 11:07	S622H17A	ALS
30. 2,4-Dinitrophenol	U	L-*	µg/L	20	1.0	08/11/22	PS22H11F	08/17/22 11:07	S622H17A	ALS
‡ 31. 2,4-Dinitrotoluene	U		µg/L	5.0	1.0	08/11/22	PS22H11F	08/17/22 11:07	S622H17A	ALS
‡ 32. 2,6-Dinitrotoluene	U		µg/L	5.0	1.0	08/11/22	PS22H11F	08/17/22 11:07	S622H17A	ALS
33. Fluoranthene	U		µg/L	1.0	1.0	08/11/22	PS22H11F	08/17/22 11:07	S622H17A	ALS
34. Fluorene	U		µg/L	5.0	1.0	08/11/22	PS22H11F	08/17/22 11:07	S622H17A	ALS
35. Hexachlorobenzene	U		µg/L	5.0	1.0	08/11/22	PS22H11F	08/17/22 11:07	S622H17A	ALS
36. Hexachlorobutadiene	U		µg/L	5.0	1.0	08/11/22	PS22H11F	08/17/22 11:07	S622H17A	ALS
37. Hexachlorocyclopentadiene	U		µg/L	5.0	1.0	08/11/22	PS22H11F	08/17/22 11:07	S622H17A	ALS
38. Hexachloroethane	U		µg/L	5.0	1.0	08/11/22	PS22H11F	08/17/22 11:07	S622H17A	ALS
39. Indeno(1,2,3-cd)pyrene	U		µg/L	2.0	1.0	08/11/22	PS22H11F	08/17/22 11:07	S622H17A	ALS
‡ 40. Isophorone	U		µg/L	5.0	1.0	08/11/22	PS22H11F	08/17/22 11:07	S622H17A	ALS
41. 2-Methyl-4,6-dinitrophenol	U		µg/L	20	1.0	08/11/22	PS22H11F	08/17/22 11:07	S622H17A	ALS
‡ 42. 2-Methylnaphthalene	U		µg/L	5.0	1.0	08/11/22	PS22H11F	08/17/22 11:07	S622H17A	ALS

Client Identification:	**AKT Peerless Environ. Svcs, Inc. - Farm. Hills**	Sample Description:	**Location D**	Chain of Custody:	**206311**
Client Project Name:	**13038F-3-20**	Sample No:		Collect Date:	**08/05/22**
Client Project No:	**13038F-3-20**	Sample Matrix:	**Surface Water**	Collect Time:	**09:38**

Sample Comments:

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable ‡: Parameter not included in NELAC Scope of Analysis.

Base/Neutral/Acid Semivolatiles by GC/MS **Aliquot ID: A10144-008** **Matrix: Surface Water**
Method: EPA 0625.1 **Description: Location D**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation P. Date	Preparation P. Batch	Analysis A. Date	Analysis A. Batch	Init.
43. 2-Methylphenol	U		µg/L	5.0	1.0	08/11/22	PS22H11F	08/17/22 11:07	S622H17A	ALS
‡ 44. 3&4-Methylphenol	U		µg/L	10	1.0	08/11/22	PS22H11F	08/17/22 11:07	S622H17A	ALS
45. Naphthalene	U		µg/L	5.0	1.0	08/11/22	PS22H11F	08/17/22 11:07	S622H17A	ALS
‡ 46. 2-Nitroaniline	U		µg/L	20	1.0	08/11/22	PS22H11F	08/17/22 11:07	S622H17A	ALS
‡ 47. 3-Nitroaniline	U		µg/L	20	1.0	08/11/22	PS22H11F	08/17/22 11:07	S622H17A	ALS
‡ 48. 4-Nitroaniline	U		µg/L	20	1.0	08/11/22	PS22H11F	08/17/22 11:07	S622H17A	ALS
49. Nitrobenzene	U		µg/L	3.0	1.0	08/11/22	PS22H11F	08/17/22 11:07	S622H17A	ALS
50. 2-Nitrophenol	U		µg/L	5.0	1.0	08/11/22	PS22H11F	08/17/22 11:07	S622H17A	ALS
51. 4-Nitrophenol	U	L-	µg/L	20	1.0	08/11/22	PS22H11F	08/17/22 11:07	S622H17A	ALS
52. N-Nitrosodimethylamine	U		µg/L	5.0	1.0	08/11/22	PS22H11F	08/17/22 11:07	S622H17A	ALS
53. N-Nitrosodi-n-propylamine	U		µg/L	5.0	1.0	08/11/22	PS22H11F	08/17/22 11:07	S622H17A	ALS
54. N-Nitrosodiphenylamine	U		µg/L	5.0	1.0	08/11/22	PS22H11F	08/17/22 11:07	S622H17A	ALS
55. Di-n-octyl Phthalate	U		µg/L	5.0	1.0	08/11/22	PS22H11F	08/17/22 11:07	S622H17A	ALS
56. 2,2'-Oxybis(1-chloropropane)	U		µg/L	5.0	1.0	08/11/22	PS22H11F	08/17/22 11:07	S622H17A	ALS
57. Pentachlorophenol	U	L-	µg/L	20	1.0	08/11/22	PS22H11F	08/17/22 11:07	S622H17A	ALS
58. Phenanthrene	U		µg/L	2.0	1.0	08/11/22	PS22H11F	08/17/22 11:07	S622H17A	ALS
59. Phenol	U		µg/L	5.0	1.0	08/11/22	PS22H11F	08/17/22 11:07	S622H17A	ALS
60. Pyrene	U		µg/L	5.0	1.0	08/11/22	PS22H11F	08/17/22 11:07	S622H17A	ALS
61. Pyridine	U		µg/L	5.0	1.0	08/11/22	PS22H11F	08/17/22 11:07	S622H17A	ALS
62. 1,2,4-Trichlorobenzene	U		µg/L	5.0	1.0	08/11/22	PS22H11F	08/17/22 11:07	S622H17A	ALS
63. 2,4,5-Trichlorophenol	U		µg/L	5.0	1.0	08/11/22	PS22H11F	08/17/22 11:07	S622H17A	ALS
64. 2,4,6-Trichlorophenol	U		µg/L	4.0	1.0	08/11/22	PS22H11F	08/17/22 11:07	S622H17A	ALS

Chromium, Hexavalent, Dissolved **Aliquot ID: A10144-008A** **Matrix: Surface Water**
Method: SM 3500-Cr B-2011 **Description: Location D**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation P. Date	Preparation P. Batch	Analysis A. Date	Analysis A. Batch	Init.
1. Chromium VI	U		mg/L	0.0050	1.0	NA	NA	08/05/22 16:24	W322H05A	TDJ

Definitions/ Qualifiers:

A: Spike recovery or precision unusable due to dilution.
B: The analyte was detected in the associated method blank.
E: The analyte was detected at a concentration greater than the calibration range, therefore the result is estimated.
J: The concentration is an estimated value.
M: Modified Method
U: The analyte was not detected at or above the reporting limit.
X: Matrix Interference has resulted in a raised reporting limit or distorted result.
W: Results reported on a wet-weight basis.
***:** Value reported is outside QC limits

Exception Summary:

*****	:	Duplicate analysis not within control limits.
F-	:	Recovery from the spiked aliquot exceeds the lower control limit (matrix spike or matrix spike duplicate).
F+	:	Recovery from the spiked aliquot exceeds the upper control limit (matrix spike or matrix spike duplicate).
L-	:	Recovery in the associated laboratory sample (LCS) exceeds the lower control limit. Results may be biased low.
L+	:	Recovery in the associated laboratory sample (LCS) exceeds the upper control limit. Results may be biased high.
V+	:	Recovery in the associated continuing calibration verification sample (CCV) exceeds the upper control limit. Results may be biased high.
Y1	:	Sample was diluted due to a sample matrix issue.

Analysis Locations:

All analyses performed in Holt.

Accreditation Number(s):

T104704518-19-8 (TX)

Fibertec environmental services

Analytical Laboratory
1914 Holloway Drive
Holt, MI 48842
Phone: 517 699 0345
Fax: 517 699 0388
email: lab@fibertec.us

8660 S. Mackinaw Trail
Cadillac, MI 49601
Phone: 231 775 8368
Fax: 231 775 8584

Geoprobe
11766 E. Grand River Rd.
Brighton, MI 48116
Phone: 810 220 3300
Fax: 810 220 3311

Chain of Custody # 206311
PAGE 1 of 1

Client Name: AKT Peerless
Contact Person: Rachel Sietz / Brian Westhoff
Project Name/ Number: 13038F-3-20
Email distribution list: cwesthoff3@aktpeerless.com
Quote#
Purchase Order#

Matrix Code: S Soil; A Air; O Oil; P Wipe; GW Ground Water; SW Surface Water; WW Waste Water; X Other: Specify

Deliverables: Level 2; Level 3; Level 4; EDD

Received By Lab
AUG 05 2022
Initials: BP

Date	Time	Sample #	Client Sample Descriptor	MATRIX (SEE RIGHT CORNER FOR CODE)	# OF CONTAINERS	VOC	SVOC	PCB	Herbicides	Pesticides	MI ten metals.	Hex Chromium	HOLD SAMPLE
08/05/2022	12:11pm		Location A	S	3	X	X	X	X	X	X	X	
08/05/2022	11:57am		Location A	SW	7	X	X	X	X	X	X	X	
	10:49am		Location B	S	3	X	X	X	X	X	X	X	
	10:36am		Location B	SW	7	X	X	X	X	X	X	X	
	11:32am		Location C	S	3	X	X	X	X	X	X	X	
	11:16am		Location C	SW	7	X	X	X	X	X	X	X	
	9:50am		Location D	S	3	X	X	X	X	X	X	X	
	9:38am		Location D	SW	7	X	X	X	X	X	X	X	

Remarks: Metal samples need immediate filtering all water samples run for dissolved metals.

Comments:

Sampled/Relinquished By: Christian Mueller	Date/ Time 08/05/2022 / 3:40pm	Received By: Brandy Powers 8/5/22 15:48
Relinquished By:	Date/ Time	Received By:
Relinquished By:	Date/ Time	Received By Laboratory:

Turnaround Time ALL RESULTS WILL BE SENT BY THE END OF THE BUSINESS DAY

_____1 bus. day _____2 bus. days _____3 bus. days _____4 bus. days

X 5-7 bus. days (standard) Other (specify time/date requirement): _____

LAB USE ONLY

Fibertec project number: A10144

Temperature upon receipt at Lab: 5.8°C

Received On Ice

Please see back for terms and conditions