

**Validated Analytical Results for Semivolatile Organic Compounds**  
**East Avenue Study Area**  
**October, 2024**

Semivolatile Organic Compounds		Sample Number:	EA0001-EY	EA0001-GB	EA0002-EY	EA0002-GB	EA0003-EY	EA0003-GB						
		Sampling Location:	1	1	2	2	3	3						
		Matrix:	Soil	Soil	Soil	Soil	Soil	Soil						
		Units:	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg						
		Date Sampled:	10/29/2024	10/29/2024	10/29/2024	10/29/2024	10/29/2024	10/29/2024						
Parameter	EPA RSL Residential Soil HQ = 0.1 (µg/kg)	EPA RML Residential Soil HQ = 3.0 (µg/kg)	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q		
1,1'-Biphenyl	4,700	140,000	210	U	210	U	200	U	200	U	190	U	190	U
1,2,4,5-Tetrachlorobenzene	230	7,000	210	U	210	U	200	U	200	U	190	U	190	U
1,4-Dioxane	5,300	530,000	83	U	82	U	80	U	78	U	76	U	76	U
1-Methylnaphthalene	18	550	210	U	210	U	200	U	200	U	190	U	190	U
2,2'-Oxybis(1-chloropropane)	310,000	9,400,000	410	U	400	U	390	U	390	U	370	U	370	U
2,3,4,6-Tetrachlorophenol	190,000	5,700,000	210	U	210	U	200	U	200	U	190	U	190	U
2,4,5-Trichlorophenol	630,000	19,000,000	210	U	210	U	200	U	200	U	190	U	190	U
2,4,6-Trichlorophenol	6,300	190,000	210	U	210	U	200	U	200	U	190	U	190	U
2,4-Dichlorophenol	19,000	570,000	210	U	210	U	200	U	200	U	190	U	190	U
2,4-Dimethylphenol	130,000	3,800,000	210	U	210	U	200	U	200	U	190	U	190	U
2,4-Dinitrophenol	13,000	380,000	410	U	400	U	390	U	390	U	370	U	370	U
2,4-Dinitrotoluene	1,700	170,000	210	U	210	U	200	U	200	U	190	U	190	U
2,6-Dinitrotoluene	360	36,000	210	U	210	U	200	U	200	U	190	U	190	U
2-Chloronaphthalene	480,000	14,000,000	210	U	210	U	200	U	200	U	190	U	190	U
2-Chlorophenol	39,000	1,200,000	210	U	210	U	200	U	200	U	190	U	190	U
2-Methylnaphthalene	24,000	720,000	210	U	210	U	200	U	200	U	190	U	190	U
2-Methylphenol	320,000	9,500,000	410	U	400	U	390	U	390	U	370	U	370	U
2-Nitroaniline	63,000	1,900,000	210	U	210	U	200	U	200	U	190	U	190	U
2-Nitrophenol	N/A	N/A	210	U	210	U	200	U	200	U	190	U	190	U
3,3'-Dichlorobenzidine	1,200	120,000	410	U	400	U	390	U	390	U	370	U	370	U
3-Nitroaniline	N/A	N/A	410	U	400	U	390	U	390	U	370	U	370	U
4,6-Dinitro-2-methylphenol	510	15,000	410	U	400	U	390	U	390	U	370	U	370	U
4-Bromophenyl-phenylether	N/A	N/A	210	U	210	U	200	U	200	U	190	U	190	U
4-Chloro-3-methylphenol	630,000	19,000,000	210	U	210	U	200	U	200	U	190	U	190	U
4-Chloroaniline	2,700	95,000	410	U	400	U	390	U	390	U	370	U	370	U
4-Chlorophenyl-phenyl ether	N/A	N/A	210	U	210	U	200	U	200	U	190	U	190	U
4-Methylphenol	130,000	3,800,000	410	U	400	U	390	U	390	U	370	U	370	U
4-Nitroaniline	25,000	760,000	410	U	400	U	390	U	390	U	370	U	370	U
4-Nitrophenol	N/A	N/A	410	U	400	U	390	U	390	U	370	U	370	U
Acenaphthene	360,000	11,000,000	210	U	210	U	200	U	200	U	190	U	190	U
Acenaphthylene	N/A	N/A	48	J	210	U	200	U	200	U	190	U	47	J
Acetophenone	780,000	23,000,000	410	U	400	U	390	U	390	U	370	U	370	U
Anthracene	1,800,000	54,000,000	54	J	210	U	200	U	200	U	190	U	51	J
Atrazine	2,400	240,000	410	U	400	U	390	U	390	U	370	U	370	U
Benzaldehyde	170,000	17,000,000	410	U	400	U	390	U	390	U	370	U	370	U
Benzo(a)anthracene	1,100	110,000	330	J	90	J	77	J	71	J	100	J	380	J
Benzo(a)pyrene	110	11,000	340	J	88	J	67	J	68	J	99	J	330	J
Benzo(b)fluoranthene	1,100	110,000	530	J	130	J	98	J	100	J	170	J	490	J
Benzo(g,h,i)perylene	N/A	N/A	210	J	52	J	200	U	200	U	76	J	200	J
Benzo(k)fluoranthene	11,000	1,100,000	160	J	47	J	41	J	200	U	55	J	170	J
Bis(2-chloroethoxy)methane	19,000	570,000	210	U	210	U	200	U	200	U	190	U	190	U
Bis(2-chloroethyl)ether	230	23,000	410	U	400	U	390	U	390	U	370	U	370	U
Bis(2-ethylhexyl)phthalate	39,000	3,800,000	69	J	5200	J	71	J	57	J	100	J	190	UJ
Butylbenzylphthalate	290,000	29,000,000	210	U	210	U	200	U	200	U	190	U	190	U
Caprolactam	3,100,000	94,000,000	410	U	400	U	390	U	390	U	370	U	370	U
Carbazole	N/A	N/A	410	U	400	U	390	U	390	U	370	U	370	U
Chrysene	110,000	11,000,000	360	J	96	J	78	J	79	J	120	J	380	J
Dibenzo(a,h)anthracene	110	11,000	55	J	210	U	200	U	200	U	190	U	53	J
Dibenzofuran	7,800	230,000	210	U	210	U	200	U	200	U	190	U	190	U
Diethylphthalate	5,100,000	150,000,000	210	U	210	U	200	U	200	U	190	U	190	U
Dimethylphthalate	N/A	N/A	210	U	210	U	200	U	200	U	190	U	190	U
Di-n-butylphthalate	630,000	19,000,000	210	U	210	U	200	U	200	U	190	U	190	U
Di-n-octylphthalate	63,000	1,900,000	410	U	400	U	390	U	390	U	370	U	370	U
Fluoranthene	240,000	7,200,000	800	J	200	J	170	J	170	J	220	J	770	J
Fluorene	240,000	7,200,000	210	U	210	U	200	U	200	U	190	U	190	U
Hexachlorobenzene	78	2,300	210	U	210	U	200	U	200	U	190	U	190	U
Hexachlorobutadiene	1,200	120,000	210	U	210	U	200	U	200	U	190	U	190	U
Hexachlorocyclopentadiene	180	5,300	410	U	400	U	390	U	390	U	370	UJ	370	UJ
Hexachloroethane	1,800	130,000	210	U	210	U	200	U	200	U	190	UJ	190	UJ
Indeno(1,2,3-cd)pyrene	1,100	110,000	250	J	66	J	52	J	51	J	82	J	220	J
Isophorone	570,000	38,000,000	210	U	210	U	200	U	200	U	190	U	190	U
Naphthalene	2,000	200,000	210	U	210	U	200	U	200	U	190	U	190	U
Nitrobenzene	5,100	380,000	210	U	210	U	200	U	200	U	190	U	190	U
N-Nitroso-di-n-propylamine	78	7,800	210	U	210	U	200	U	200	U	190	U	190	U
N-Nitrosodiphenylamine	110,000	11,000,000	210	U	210	U	200	U	200	U	190	U	190	U
Pentachlorophenol	1,000	100,000	410	U	400	U	390	U	390	U	370	U	370	U
Phenanthrene	N/A	N/A	300	J	86	J	64	J	78	J	78	J	230	J
Phenol	1,900,000	57,000,000	410	U	400	U	390	U	390	U	370	U	370	U
Pyrene	180,000	5,400,000	620	J	170	J	130	J	140	J	180	J	620	J

**NOTES:**  
µg/kg = Micrograms per kilogram  
EPA = U.S. Environmental Protection Agency  
EY = Entire Yard (Composite) Sample  
GB = Grab Sample  
HQ = Hazard quotient  
RSL = Regional Screening Levels  
RML = Removal Management Levels  
N/A = Not applicable  
Q = Qualifier  
**Bolded results indicate detections**  
**Shaded results indicate exceedance of screening value with correlating shading**

**Qualifiers**  
J = The result is an estimated quantity.  
U = The analyte was not detected above the quantitation limit.  
UJ = The analyte was not detected. Additionally, the quantitation limit is may be inaccurate or imprecise.  
R = The data are unusable. The sample results are rejected due to serious deficiencies in meeting QC criteria. The analyte may or may not be present in the sample.

**Validated Analytical Results for Semivolatile Organic Compounds**  
**East Avenue Study Area**  
**October, 2024**

Semivolatile Organic Compounds		Sample Number:	EA0004-EY	EA0004-GB	EA0005-EY	EA0005-GB	EA0006-EY	EA0006-GB						
		Sampling Location:	4	4	5	5	6	6						
		Matrix:	Soil	Soil	Soil	Soil	Soil	Soil						
		Units:	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg						
		Date Sampled:	10/29/2024	10/29/2024	10/29/2024	10/29/2024	10/30/2024	10/30/2024						
Parameter	EPA RSL Residential Soil HQ = 0.1 (µg/kg)	EPA RML Residential Soil HQ = 3.0 (µg/kg)	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q		
1,1'-Biphenyl	4,700	140,000	190	U	190	U	190	U	190	U	190	U	200	U
1,2,4,5-Tetrachlorobenzene	230	7,000	190	U	190	U	190	U	190	U	190	U	200	U
1,4-Dioxane	5,300	530,000	75	U	73	U	76	U	76	U	75	U	79	U
1-Methylnaphthalene	18	550	190	U	190	U	190	U	190	U	190	U	200	U
2,2'-Oxybis(1-chloropropane)	310,000	9,400,000	370	U	360	U	380	U	380	U	370	U	390	U
2,3,4,6-Tetrachlorophenol	190,000	5,700,000	190	U	190	U	190	U	190	U	190	U	200	U
2,4,5-Trichlorophenol	630,000	19,000,000	190	U	190	U	190	U	190	U	190	U	200	U
2,4,6-Trichlorophenol	6,300	190,000	190	U	190	U	190	U	190	U	190	U	200	U
2,4-Dichlorophenol	19,000	570,000	190	U	190	U	190	U	190	U	190	U	200	U
2,4-Dimethylphenol	130,000	3,800,000	190	U	190	U	190	U	190	U	190	U	200	U
2,4-Dinitrophenol	13,000	380,000	370	U	360	U	380	U	380	U	370	U	390	U
2,4-Dinitrotoluene	1,700	170,000	190	U	190	U	190	U	190	U	190	U	200	U
2,6-Dinitrotoluene	360	36,000	190	U	190	U	190	U	190	U	190	U	200	U
2-Chloronaphthalene	480,000	14,000,000	190	U	190	U	190	U	190	U	190	U	200	U
2-Chlorophenol	39,000	1,200,000	190	U	190	U	190	U	190	U	190	U	200	U
2-Methylnaphthalene	24,000	720,000	190	U	190	U	190	U	190	U	190	U	200	U
2-Methylphenol	320,000	9,500,000	370	U	360	U	380	U	380	U	370	U	390	U
2-Nitroaniline	63,000	1,900,000	190	U	190	U	190	U	190	U	190	U	200	U
2-Nitrophenol	N/A	N/A	190	U	190	U	190	U	190	U	190	U	200	U
3,3'-Dichlorobenzidine	1,200	120,000	370	U	360	U	380	U	380	U	370	U	390	U
3-Nitroaniline	N/A	N/A	370	U	360	U	380	U	380	U	370	U	390	U
4,6-Dinitro-2-methylphenol	510	15,000	370	U	360	U	380	U	380	U	370	U	390	U
4-Bromophenyl-phenylether	N/A	N/A	190	U	190	U	190	U	190	U	190	U	200	U
4-Chloro-3-methylphenol	630,000	19,000,000	190	U	190	U	190	U	190	U	190	U	200	U
4-Chloroaniline	2,700	95,000	370	U	360	U	380	U	380	U	370	U	390	U
4-Chlorophenyl-phenyl ether	N/A	N/A	190	U	190	U	190	U	190	U	190	U	200	U
4-Methylphenol	130,000	3,800,000	370	U	360	U	380	U	380	U	370	U	390	U
4-Nitroaniline	25,000	760,000	370	U	360	U	380	U	380	U	370	U	390	U
4-Nitrophenol	N/A	N/A	370	U	360	U	380	U	380	U	370	U	390	U
Acenaphthene	360,000	11,000,000	190	U	190	U	190	U	190	U	190	U	200	U
Acenaphthylene	N/A	N/A	47	J	190	U	190	U	190	U	72	J	43	J
Acetophenone	780,000	23,000,000	370	U	360	U	380	U	380	U	370	U	390	U
Anthracene	1,800,000	54,000,000	61	J	190	U	190	U	190	U	140	J	200	U
Atrazine	2,400	240,000	370	U	360	U	380	U	380	U	370	U	390	U
Benzaldehyde	170,000	17,000,000	370	U	360	U	380	U	380	U	370	U	390	U
Benzo(a)anthracene	1,100	110,000	290		61	J	130	J	52	J	360		140	J
Benzo(a)pyrene	110	11,000	280		58	J	130	J	190	U	280		130	J
Benzo(b)fluoranthene	1,100	110,000	420		87	J	210		70	J	430		200	
Benzo(g,h,i)perylene	N/A	N/A	170	J	190	U	86	J	190	U	160	J	88	J
Benzo(k)fluoranthene	11,000	1,100,000	160	J	190	U	70	J	190	U	140	J	68	J
Bis(2-chloroethoxy)methane	19,000	570,000	190	U	190	U	190	U	190	U	190	U	200	U
Bis(2-chloroethyl)ether	230	23,000	370	U	360	U	380	U	380	U	370	U	390	U
Bis(2-ethylhexyl)phthalate	39,000	3,800,000	190	U	190	U	190	U	190	U	53	J	90	J
Butylbenzylphthalate	290,000	29,000,000	190	U	190	U	190	U	190	U	190	U	200	U
Caprolactam	3,100,000	94,000,000	370	U	360	U	380	U	380	U	370	U	390	U
Carbazole	N/A	N/A	370	U	360	U	380	U	380	U	370	U	390	U
Chrysene	110,000	11,000,000	320		62	J	150	J	53	J	320		140	J
Dibenzo(a,h)anthracene	110	11,000	48	J	190	U	190	U	190	U	53	J	200	U
Dibenzofuran	7,800	230,000	190	U	190	U	190	U	190	U	190	U	200	U
Diethylphthalate	5,100,000	150,000,000	190	U	190	U	190	U	190	U	190	U	200	U
Dimethylphthalate	N/A	N/A	190	U	190	U	190	U	190	U	190	U	200	U
Di-n-butylphthalate	630,000	19,000,000	190	U	190	U	190	U	190	U	190	U	200	U
Di-n-octylphthalate	63,000	1,900,000	370	U	360	U	380	U	380	U	370	U	390	U
Fluoranthene	240,000	7,200,000	750		140	J	300		100	J	710		250	
Fluorene	240,000	7,200,000	190	U	190	U	190	U	190	U	190	U	200	U
Hexachlorobenzene	78	2,300	190	U	190	U	190	U	190	U	190	U	200	U
Hexachlorobutadiene	1,200	120,000	190	U	190	U	190	U	190	U	190	U	200	U
Hexachlorocyclopentadiene	180	5,300	370	U	360	U	380	U	380	U	370	U	390	U
Hexachloroethane	1,800	130,000	190	U	190	U	190	U	190	U	190	U	200	U
Indeno(1,2,3-cd)pyrene	1,100	110,000	210	J	43	J	100	J	190	U	200	J	100	J
Isophorone	570,000	38,000,000	190	U	190	U	190	U	190	U	190	U	200	U
Naphthalene	2,000	200,000	190	U	190	U	190	U	190	U	190	U	200	U
Nitrobenzene	5,100	380,000	190	U	190	U	190	U	190	U	190	U	200	U
N-Nitroso-di-n-propylamine	78	7,800	190	U	190	U	190	U	190	U	190	U	200	U
N-Nitrosodiphenylamine	110,000	11,000,000	190	U	190	U	190	U	190	U	190	U	200	U
Pentachlorophenol	1,000	100,000	370	U	360	U	380	U	380	U	370	U	390	U
Phenanthrene	N/A	N/A	360		67	J	130	J	46	J	490		100	J
Phenol	1,900,000	57,000,000	370	U	360	U	380	U	380	U	370	U	390	U
Pyrene	180,000	5,400,000	570		110	J	240		85	J	520		210	

**NOTES:**  
µg/kg = Micrograms per kilogram  
EPA = U.S. Environmental Protection Agency  
EY = Entire Yard (Composite) Sample  
GB = Grab Sample  
HQ = Hazard quotient  
RSL = Regional Screening Levels  
RML = Removal Management Levels  
N/A = Not applicable  
Q = Qualifier

**Bolded results indicate detections**  
**Shaded results indicate exceedance of screening value with correlating shading**

**Qualifiers**  
J = The result is an estimated quantity.  
U = The analyte was not detected above the quantitation limit.  
UJ = The analyte was not detected. Additionally, the quantitation limit is may be inaccurate or imprecise.  
R = The data are unusable. The sample results are rejected due to serious deficiencies in meeting QC criteria. The analyte may or may not be present in the sample.

**Validated Analytical Results for Semivolatile Organic Compounds**  
**East Avenue Study Area**  
**October, 2024**

Semivolatile Organic Compounds			Sample Number:	EA0007-EY	EA0007-EY-DUP	EA0007-GB	EA0008-EY	EA0008-GB	EA0009-EY	EA0009-GB		
			Sampling Location:	7	7	7	8	8	9	9		
			Matrix:	Soil	Soil	Soil	Soil	Soil	Soil	Soil		
			Units:	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg		
			Date Sampled:	10/29/2024	10/29/2024	10/29/2024	10/29/2024	10/29/2024	10/29/2024	10/29/2024		
Parameter	EPA RSL Residential Soil HQ = 0.1 (µg/kg)	EPA RML Residential Soil HQ = 3.0 (µg/kg)	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q
	1,1'-Biphenyl	4,700	140,000	190 U		190 U		190 U		200 U		200 U
1,2,4,5-Tetrachlorobenzene	230	7,000	190 U		190 U		190 U		200 U		200 U	
1,4-Dioxane	5,300	530,000	75 U		73 U		74 U		80 U		78 U	
1-Methylnaphthalene	18	550	190 U		190 U		190 U		200 U		200 U	
2,2'-Oxybis(1-chloropropane)	310,000	9,400,000	370 U		360 U		370 U		390 U		390 U	
2,3,4,6-Tetrachlorophenol	190,000	5,700,000	190 U		190 U		190 U		200 U		200 U	
2,4,5-Trichlorophenol	630,000	19,000,000	190 U		190 U		190 U		200 U		200 U	
2,4,6-Trichlorophenol	6,300	190,000	190 U		190 U		190 U		200 U		200 U	
2,4-Dichlorophenol	19,000	570,000	190 U		190 U		190 U		200 U		200 U	
2,4-Dimethylphenol	130,000	3,800,000	190 U		190 U		190 U		200 U		200 U	
2,4-Dinitrophenol	13,000	380,000	370 U		360 U		370 U		390 U		390 U	
2,4-Dinitrotoluene	1,700	170,000	190 U		190 U		190 U		200 U		200 U	
2,6-Dinitrotoluene	360	36,000	190 U		190 U		190 U		200 U		200 U	
2-Chloronaphthalene	480,000	14,000,000	190 U		190 U		190 U		200 U		200 U	
2-Chlorophenol	39,000	1,200,000	190 U		190 U		190 U		200 U		200 U	
2-Methylnaphthalene	24,000	720,000	190 U		190 U		190 U		200 U		200 U	
2-Methylphenol	320,000	9,500,000	370 U		360 U		370 U		390 U		390 U	
2-Nitroaniline	63,000	1,900,000	190 U		190 U		190 U		200 U		200 U	
2-Nitrophenol	N/A	N/A	190 U		190 U		190 U		200 U		200 U	
3,3'-Dichlorobenzidine	1,200	120,000	370 U		360 U		370 U		390 U		390 U	
3-Nitroaniline	N/A	N/A	370 U		360 U		370 U		390 U		390 U	
4,6-Dinitro-2-methylphenol	510	15,000	370 U		360 U		370 U		390 U		390 U	
4-Bromophenyl-phenylether	N/A	N/A	190 U		190 U		190 U		200 U		200 U	
4-Chloro-3-methylphenol	630,000	19,000,000	190 U		190 U		190 U		200 U		200 U	
4-Chloroaniline	2,700	95,000	370 U		360 U		370 U		390 U		390 U	
4-Chlorophenyl-phenyl ether	N/A	N/A	190 U		190 U		190 U		200 U		200 U	
4-Methylphenol	130,000	3,800,000	370 U		360 U		370 U		390 U		390 U	
4-Nitroaniline	25,000	760,000	370 U		360 U		370 U		390 U		390 U	
4-Nitrophenol	N/A	N/A	370 U		360 U		370 U		390 U		390 U	
Acenaphthene	360,000	11,000,000	190 U		190 U		190 U		200 U		200 U	
Acenaphthylene	N/A	N/A	190 U		190 U		190 U		52 J		200 U	
Acetophenone	780,000	23,000,000	370 U		360 U		370 U		390 U		390 U	
Anthracene	1,800,000	54,000,000	190 U		190 U		38 J		60 J		200 U	
Atrazine	2,400	240,000	370 U		360 U		370 U		390 U		390 U	
Benzaldehyde	170,000	17,000,000	370 U		360 U		370 U		390 U		390 U	
Benzo(a)anthracene	1,100	110,000	82 J		97 J		130 J		340		200 U	
Benzo(a)pyrene	110	11,000	87 J		98 J		120 J		320		200 U	
Benzo(b)fluoranthene	1,100	110,000	130 J		150 J		160 J		480		200 U	
Benzo(g,h,i)perylene	N/A	N/A	66 J		72 J		70 J		190 J		200 U	
Benzo(k)fluoranthene	11,000	1,100,000	190 U		55 J		60 J		180 J		200 U	
Bis(2-chloroethoxy)methane	19,000	570,000	190 U		190 U		190 U		200 U		200 U	
Bis(2-chloroethoxy)ether	230	23,000	370 U		360 U		370 U		390 U		390 U	
Bis(2-ethylhexyl)phthalate	39,000	3,800,000	190 UJ		42 J		190 UJ		190 J		200 U	
Butylbenzylphthalate	290,000	29,000,000	190 U		190 U		190 U		200 U		200 U	
Caprolactam	3,100,000	94,000,000	370 U		360 U		370 U		390 U		390 U	
Carbazole	N/A	N/A	370 U		360 U		370 U		390 U		390 U	
Chrysene	110,000	11,000,000	96 J		100 J		120 J		360		200 U	
Dibenzo(a,h)anthracene	110	11,000	190 U		190 U		190 U		62 J		200 U	
Dibenzofuran	7,800	230,000	190 U		190 U		190 U		200 U		200 U	
Diethylphthalate	5,100,000	150,000,000	190 U		190 U		190 U		200 U		200 U	
Dimethylphthalate	N/A	N/A	190 U		190 U		190 U		200 U		200 U	
Di-n-butylphthalate	630,000	19,000,000	190 U		190 U		190 U		200 U		200 U	
Di-n-octylphthalate	63,000	1,900,000	370 U		360 U		370 U		390 U		390 U	
Fluoranthene	240,000	7,200,000	170 J		190		240		820		200 U	
Fluorene	240,000	7,200,000	190 U		190 U		190 U		200 U		200 U	
Hexachlorobenzene	78	2,300	190 U		190 U		190 U		200 U		200 U	
Hexachlorobutadiene	1,200	120,000	190 U		190 U		190 U		200 U		200 U	
Hexachlorocyclo-pentadiene	180	5,300	370 UJ		360 UJ		370 UJ		390 U		390 U	
Hexachloroethane	1,800	130,000	190 UJ		190 UJ		190 UJ		200 U		200 U	
Indeno(1,2,3-cd)pyrene	1,100	110,000	71 J		81 J		84 J		230 J		200 U	
Isophorone	570,000	38,000,000	190 U		190 U		190 U		200 U		200 U	
Naphthalene	2,000	200,000	190 U		190 U		190 U		200 U		200 U	
Nitrobenzene	5,100	380,000	190 U		190 U		190 U		200 U		200 U	
N-Nitroso-di-n-propylamine	78	7,800	190 U		190 U		190 U		200 U		200 U	
N-Nitrosodiphenylamine	110,000	11,000,000	190 U		190 U		190 U		200 U		200 U	
Pentachlorophenol	1,000	100,000	370 U		360 U		370 U		390 U		390 U	
Phenanthrene	N/A	N/A	69 J		77 J		120 J		370		200 U	
Phenol	1,900,000	57,000,000	370 U		360 U		370 U		390 U		390 U	
Pyrene	180,000	5,400,000	150 J		160 J		200		620		200 U	

**NOTES:**  
µg/kg = Micrograms per kilogram  
EPA = U.S. Environmental Protection Agency  
EY = Entire Yard (Composite) Sample  
GB = Grab Sample  
HQ = Hazard quotient  
RSL = Regional Screening Levels  
RML = Removal Management Levels  
N/A = Not applicable  
Q = Qualifier  
**Bolded results indicate detections**  
**Shaded results indicate exceedance of screening value with correlating shading**

**Qualifiers**  
J = The result is an estimated quantity.  
U = The analyte was not detected above the quantitation limit.  
UJ = The analyte was not detected. Additionally, the quantitation limit is may be inaccurate or imprecise.  
R = The data are unusable. The sample results are rejected due to serious deficiencies in meeting QC criteria. The analyte may or may not be present in the sample.

**Validated Analytical Results for Semivolatile Organic Compounds**  
**East Avenue Study Area**  
**October, 2024**

Semivolatile Organic Compounds		Sample Number:	EA0010-EY	EA0010-GB	EA0011-EY	EA0011-GB	EA0012-EY	EA0012-GB						
		Sampling Location:	10	10	11	11	12	12						
		Matrix:	Soil	Soil	Soil	Soil	Soil	Soil						
		Units:	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg						
		Date Sampled:	10/29/2024	10/29/2024	10/30/2024	10/30/2024	10/29/2024	10/29/2024						
Parameter	EPA RSL Residential Soil HQ = 0.1 (µg/kg)	EPA RML Residential Soil HQ = 3.0 (µg/kg)	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q		
1,1'-Biphenyl	4,700	140,000	210	U	200	U	190	U	<b>550</b>	U	200	U	200	U
1,2,4,5-Tetrachlorobenzene	230	7,000	210	U	200	U	190	U	210	U	200	U	200	U
1,4-Dioxane	5,300	530,000	83	U	78	U	74	U	83	R	78	U	78	U
1-Methylnaphthalene	18	550	210	U	200	U	190	U	210	U	200	U	200	U
2,2'-Oxybis(1-chloropropane)	310,000	9,400,000	410	U	390	U	370	U	410	U	380	U	390	U
2,3,4,6-Tetrachlorophenol	190,000	5,700,000	210	U	200	U	190	U	210	U	200	U	200	U
2,4,5-Trichlorophenol	630,000	19,000,000	210	U	200	U	190	U	210	U	200	U	200	U
2,4,6-Trichlorophenol	6,300	190,000	210	U	200	U	190	U	210	U	200	U	200	U
2,4-Dichlorophenol	19,000	570,000	210	U	200	U	190	U	210	U	200	U	200	U
2,4-Dimethylphenol	130,000	3,800,000	210	U	200	U	190	U	210	U	200	U	200	U
2,4-Dinitrophenol	13,000	380,000	410	U	390	U	370	U	410	U	380	U	390	U
2,4-Dinitrotoluene	1,700	170,000	210	U	200	U	190	U	210	U	200	U	200	U
2,6-Dinitrotoluene	360	36,000	210	U	200	U	190	U	210	U	200	U	200	U
2-Chloronaphthalene	480,000	14,000,000	210	U	200	U	190	U	210	U	200	U	200	U
2-Chlorophenol	39,000	1,200,000	210	U	200	U	190	U	210	U	200	U	200	U
2-Methylnaphthalene	24,000	720,000	210	U	200	U	190	U	210	U	200	U	200	U
2-Methylphenol	320,000	9,500,000	410	U	390	U	370	U	410	U	380	U	390	U
2-Nitroaniline	63,000	1,900,000	210	U	200	U	190	U	210	U	200	U	200	U
2-Nitrophenol	N/A	N/A	210	U	200	U	190	U	210	U	200	U	200	U
3,3'-Dichlorobenzidine	1,200	120,000	410	U	390	U	370	U	410	U	380	U	390	U
3-Nitroaniline	N/A	N/A	410	U	390	U	370	U	410	U	380	U	390	U
4,6-Dinitro-2-methylphenol	510	15,000	410	U	390	U	370	U	410	U	380	U	390	U
4-Bromophenyl-phenylether	N/A	N/A	210	U	200	U	190	U	210	U	200	U	200	U
4-Chloro-3-methylphenol	630,000	19,000,000	210	U	200	U	190	U	210	U	200	U	200	U
4-Chloroaniline	2,700	95,000	410	U	390	U	370	U	410	U	380	U	390	U
4-Chlorophenyl-phenyl ether	N/A	N/A	210	U	200	U	190	U	210	U	200	U	200	U
4-Methylphenol	130,000	3,800,000	410	U	390	U	370	U	410	U	380	U	390	U
4-Nitroaniline	25,000	760,000	410	U	390	U	370	U	410	U	380	U	390	U
4-Nitrophenol	N/A	N/A	410	U	390	U	370	U	410	U	380	U	390	U
Acenaphthene	360,000	11,000,000	210	U	200	U	190	U	210	U	200	U	200	U
Acenaphthylene	N/A	N/A	<b>66</b>	J	<b>74</b>	J	190	U	210	U	200	U	200	U
Acetophenone	780,000	23,000,000	410	U	390	U	370	U	410	U	380	U	390	U
Anthracene	1,800,000	54,000,000	<b>110</b>	J	<b>71</b>	J	<b>58</b>	J	210	U	200	U	200	U
Atrazine	2,400	240,000	410	U	390	U	370	U	410	U	380	U	390	U
Benzaldehyde	170,000	17,000,000	410	U	390	U	370	U	410	U	380	U	<b>81</b>	J
Benzo(a)anthracene	1,100	110,000	<b>500</b>	J	<b>370</b>	J	<b>160</b>	J	<b>150</b>	J	<b>56</b>	J	200	U
Benzo(a)pyrene	110	11,000	<b>420</b>	J	<b>320</b>	J	<b>140</b>	J	<b>120</b>	J	<b>54</b>	J	200	U
Benzo(b)fluoranthene	1,100	110,000	<b>630</b>	J	<b>510</b>	J	<b>210</b>	J	<b>190</b>	J	<b>87</b>	J	200	U
Benzo(g,h,i)perylene	N/A	N/A	<b>230</b>	J	<b>180</b>	J	<b>92</b>	J	<b>71</b>	J	200	U	200	U
Benzo(k)fluoranthene	11,000	1,100,000	<b>220</b>	J	<b>180</b>	J	<b>73</b>	J	<b>57</b>	J	200	U	200	U
Bis(2-chloroethoxy)methane	19,000	570,000	210	U	200	U	190	U	210	U	200	U	200	U
Bis(2-chloroethyl)ether	230	23,000	410	U	390	U	370	U	410	U	380	U	390	U
Bis(2-ethylhexyl)phthalate	39,000	3,800,000	<b>460</b>	J	<b>51</b>	J	<b>54</b>	J	<b>54</b>	J	<b>120</b>	J	200	U
Butylbenzylphthalate	290,000	29,000,000	210	U	200	U	190	U	210	U	200	U	200	U
Caprolactam	3,100,000	94,000,000	410	U	390	U	370	U	410	U	380	U	390	U
Carbazole	N/A	N/A	410	U	390	U	370	U	410	U	380	U	390	U
Chrysene	110,000	11,000,000	<b>490</b>	J	<b>410</b>	J	<b>150</b>	J	<b>130</b>	J	<b>62</b>	J	200	U
Dibenzo(a,h)anthracene	110	11,000	<b>64</b>	J	<b>60</b>	J	190	U	210	U	200	U	200	U
Dibenzofuran	7,800	230,000	210	U	200	U	190	U	210	U	200	U	200	U
Diethylphthalate	5,100,000	150,000,000	210	U	200	U	190	U	210	U	200	U	200	U
Dimethylphthalate	N/A	N/A	210	U	200	U	190	U	210	U	200	U	<b>360</b>	J
Di-n-butylphthalate	630,000	19,000,000	<b>370</b>	J	200	U	190	U	210	U	200	U	200	U
Di-n-octylphthalate	63,000	1,900,000	410	U	390	U	370	U	410	U	380	U	390	U
Fluoranthene	240,000	7,200,000	<b>1200</b>	J	<b>950</b>	J	<b>310</b>	J	<b>240</b>	J	<b>110</b>	J	200	U
Fluorene	240,000	7,200,000	210	U	200	U	190	U	210	U	200	U	200	U
Hexachlorobenzene	78	2,300	210	U	200	U	190	U	210	U	200	U	200	U
Hexachlorobutadiene	1,200	120,000	210	U	200	U	190	U	210	U	200	U	200	U
Hexachlorocyclo-pentadiene	180	5,300	410	U	390	U	370	U	410	U	380	U	390	U
Hexachloroethane	1,800	130,000	210	U	200	U	190	U	210	U	200	U	200	U
Indeno(1,2,3-cd)pyrene	1,100	110,000	<b>290</b>	J	<b>240</b>	J	<b>110</b>	J	<b>87</b>	J	<b>44</b>	J	200	U
Isophorone	570,000	38,000,000	210	U	200	U	190	U	210	U	200	U	200	U
Naphthalene	2,000	200,000	210	U	200	U	190	U	210	U	200	U	200	U
Nitrobenzene	5,100	380,000	210	U	200	U	190	U	210	U	200	U	<b>49</b>	J
N-Nitroso-di-n-propylamine	78	7,800	210	U	200	U	190	U	210	U	200	U	200	U
N-Nitrosodiphenylamine	110,000	11,000,000	210	U	200	U	190	U	210	U	200	U	200	U
Pentachlorophenol	1,000	100,000	410	U	390	U	370	U	410	U	380	U	390	U
Phenanthrene	N/A	N/A	<b>570</b>	J	<b>560</b>	J	<b>210</b>	J	<b>120</b>	J	<b>55</b>	J	200	U
Phenol	1,900,000	57,000,000	410	U	390	U	370	U	410	U	380	U	390	U
Pyrene	180,000	5,400,000	<b>880</b>	J	<b>680</b>	J	<b>240</b>	J	<b>200</b>	J	<b>94</b>	J	200	U

**NOTES:**  
µg/kg = Micrograms per kilogram  
EPA = U.S. Environmental Protection Agency  
EY = Entire Yard (Composite) Sample  
GB = Grab Sample  
HQ = Hazard quotient  
RSL = Regional Screening Levels  
RML = Removal Management Levels  
N/A = Not applicable  
Q = Qualifier

**Bolded results indicate detections**  
**Shaded results indicate exceedance of screening value with correlating shading**

**Qualifiers**  
J = The result is an estimated quantity.  
U = The analyte was not detected above the quantitation limit.  
UJ = The analyte was not detected. Additionally, the quantitation limit is may be inaccurate or imprecise.  
R = The data are unusable. The sample results are rejected due to serious deficiencies in meeting QC criteria. The analyte may or may not be present in the sample.

**Validated Analytical Results for Semivolatile Organic Compounds**  
**East Avenue Study Area**  
**October, 2024**

Semivolatile Organic Compounds			Sample Number:	EA0013-EY	EA0013-GB	EA0014-EY	EA0014-GB	EA0015-EY	EA0015-GB	EA0015-GB-DUP						
			Sampling Location:	13	13	14	14	15	15	15						
			Matrix:	Soil												
			Units:	µg/kg												
			Date Sampled:	10/30/2024	10/30/2024	10/30/2024	10/30/2024	10/30/2024	10/30/2024	10/30/2024						
Parameter	EPA RSL Residential Soil HQ = 0.1 (µg/kg)	EPA RML Residential Soil HQ = 3.0 (µg/kg)	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q				
	1,1'-Biphenyl	4,700	140,000	220	U	190	U	190	U	180	U	190	U	230	U	180
1,2,4,5-Tetrachlorobenzene	230	7,000	220	U	190	U	190	U	180	U	190	U	230	U	180	U
1,4-Dioxane	5,300	530,000	85	U	75	R	75	U	72	U	75	U	90	R	69	R
1-Methylnaphthalene	18	550	220	U	190	U	190	U	180	U	190	U	230	U	180	U
2,2'-Oxybis(1-chloropropane)	310,000	9,400,000	420	U	370	U	370	U	360	U	370	U	440	U	340	U
2,3,4,6-Tetrachlorophenol	190,000	5,700,000	220	U	190	U	190	U	180	U	190	U	230	U	180	U
2,4,5-Trichlorophenol	630,000	19,000,000	220	U	190	U	190	U	180	U	190	U	230	U	180	U
2,4,6-Trichlorophenol	6,300	190,000	220	U	190	U	190	U	180	U	190	U	230	U	180	U
2,4-Dichlorophenol	19,000	570,000	220	U	190	U	190	U	180	U	190	U	230	U	180	U
2,4-Dimethylphenol	130,000	3,800,000	220	U	190	U	190	U	180	U	190	U	230	U	180	U
2,4-Dinitrophenol	13,000	380,000	420	U	370	U	370	U	360	U	370	U	440	U	340	U
2,4-Dinitrotoluene	1,700	170,000	220	U	190	U	190	U	180	U	190	U	230	U	180	U
2,6-Dinitrotoluene	360	36,000	220	U	190	U	190	U	180	U	190	U	230	U	180	U
2-Chloronaphthalene	480,000	14,000,000	220	U	190	U	190	U	180	U	190	U	230	U	180	U
2-Chlorophenol	39,000	1,200,000	220	U	190	U	190	U	180	U	190	U	230	U	180	U
2-Methylnaphthalene	24,000	720,000	220	U	190	U	190	U	58	J	190	U	230	U	180	U
2-Methylphenol	320,000	9,500,000	420	U	370	U	370	U	360	U	370	U	440	U	340	U
2-Nitroaniline	63,000	1,900,000	220	U	190	U	190	U	180	U	190	U	230	U	180	U
2-Nitrophenol	N/A	N/A	220	U	190	U	190	U	180	U	190	U	230	U	180	U
3,3'-Dichlorobenzidine	1,200	120,000	420	U	370	U	370	U	360	U	370	U	440	U	340	U
3-Nitroaniline	N/A	N/A	420	U	370	U	370	U	360	U	370	U	440	U	340	U
4,6-Dinitro-2-methylphenol	510	15,000	420	U	370	U	370	U	360	U	370	U	440	U	340	U
4-Bromophenyl-phenylether	N/A	N/A	220	U	190	U	190	U	180	U	190	U	230	U	180	U
4-Chloro-3-methylphenol	630,000	19,000,000	220	U	190	U	190	U	180	U	190	U	230	U	180	U
4-Chloroaniline	2,700	95,000	420	U	370	U	370	U	360	U	370	U	440	U	340	U
4-Chlorophenyl-phenyl ether	N/A	N/A	220	U	190	U	190	U	180	U	190	U	230	U	180	U
4-Methylphenol	130,000	3,800,000	420	U	370	U	370	U	360	U	370	U	440	U	340	U
4-Nitroaniline	25,000	760,000	420	U	370	U	370	U	360	U	370	U	440	U	340	U
4-Nitrophenol	N/A	N/A	420	U	370	U	370	U	360	U	370	U	440	U	340	U
Acenaphthene	360,000	11,000,000	110	J	190	U	190	U	180	U	190	U	230	U	180	U
Acenaphthylene	N/A	N/A	140	J	190	U	190	U	100	J	45	J	230	U	34	J
Acetophenone	780,000	23,000,000	420	U	370	U	370	U	360	U	370	U	440	U	340	U
Anthracene	1,800,000	54,000,000	300	J	190	U	190	U	120	J	50	J	66	J	39	J
Atrazine	2,400	240,000	420	U	370	U	370	U	360	U	370	U	440	U	340	U
Benzaldehyde	170,000	17,000,000	420	U	370	U	370	U	360	U	370	U	440	U	340	U
Benzo(a)anthracene	1,100	110,000	1400	J	130	J	110	J	350	J	250	J	330	J	210	J
Benzo(a)pyrene	110	11,000	1400	J	140	J	100	J	300	J	240	J	300	J	190	J
Benzo(b)fluoranthene	1,100	110,000	2000	J	190	J	150	J	420	J	370	J	440	J	290	J
Benzo(g,h,i)perylene	N/A	N/A	810	J	79	J	76	J	190	J	150	J	170	J	110	J
Benzo(k)fluoranthene	11,000	1,100,000	710	J	82	J	53	J	130	J	140	J	160	J	110	J
Bis(2-chloroethoxy)methane	19,000	570,000	220	U	190	U	190	U	180	U	190	U	230	U	180	U
Bis(2-chloroethoxy)ether	230	23,000	420	U	370	U	370	U	360	U	370	U	440	U	340	U
Bis(2-ethylhexyl)phthalate	39,000	3,800,000	74	J	190	U	4000	J	370	J	160	J	230	U	180	U
Butylbenzylphthalate	290,000	29,000,000	220	U	110	J	190	U	420	J	190	U	230	U	180	U
Caprolactam	3,100,000	94,000,000	420	U	370	U	370	U	360	U	370	U	440	U	340	U
Carbazole	N/A	N/A	160	J	370	U	370	U	360	U	370	U	440	U	340	U
Chrysene	110,000	11,000,000	1400	J	150	J	110	J	330	J	270	J	340	J	220	J
Dibenzo(a,h)anthracene	110	11,000	230	J	46	J	190	U	52	J	42	J	55	J	180	U
Dibenzofuran	7,800	230,000	220	U	190	U	190	U	180	U	190	U	230	U	180	U
Diethylphthalate	5,100,000	150,000,000	220	U	190	U	190	U	180	U	190	U	230	U	180	U
Dimethylphthalate	N/A	N/A	220	U	190	U	190	U	180	U	190	U	230	U	180	U
Di-n-butylphthalate	630,000	19,000,000	220	U	190	U	190	U	180	U	190	U	230	U	180	U
Di-n-octylphthalate	63,000	1,900,000	420	U	370	U	370	U	360	U	370	U	440	U	340	U
Fluoranthene	240,000	7,200,000	3200	J	340	J	190	J	720	J	620	J	840	J	540	J
Fluorene	240,000	7,200,000	120	J	190	U	190	U	180	U	190	U	230	U	180	U
Hexachlorobenzene	78	2,300	220	U	190	U	190	U	180	U	190	U	230	U	180	U
Hexachlorobutadiene	1,200	120,000	220	U	190	U	190	U	180	U	190	U	230	U	180	U
Hexachlorocyclo-pentadiene	180	5,300	420	UJ	370	UJ	370	UJ	360	UJ	370	UJ	440	U	340	U
Hexachloroethane	1,800	130,000	220	UJ	190	UJ	190	UJ	180	UJ	190	UJ	230	U	180	U
Indeno(1,2,3-cd)pyrene	1,100	110,000	970	J	100	J	84	J	220	J	180	J	220	J	140	J
Isophorone	570,000	38,000,000	220	U	190	U	190	U	180	U	190	U	230	U	180	U
Naphthalene	2,000	200,000	220	U	190	U	190	U	51	J	190	U	230	U	180	U
Nitrobenzene	5,100	380,000	220	U	190	U	190	U	180	U	190	U	230	U	180	U
N-Nitroso-di-n-propylamine	78	7,800	220	U	190	U	190	U	180	U	190	U	230	U	180	U
N-Nitrosodiphenylamine	110,000	11,000,000	220	U	190	U	190	U	180	U	190	U	230	U	180	U
Pentachlorophenol	1,000	100,000	420	U	370	U	370	U	360	U	370	U	440	U	340	U
Phenanthrene	N/A	N/A	1500	J	170	J	92	J	520	J	280	J	440	J	260	J
Phenol	1,900,000	57,000,000	420	U	370	U	370	U	360	U	370	U	440	U	340	U
Pyrene	180,000	5,400,000	2400	J	260	J	170	J	630	J	460	J	630	J	400	J

**NOTES:**  
µg/kg = Micrograms per kilogram  
EPA = U.S. Environmental Protection Agency  
EY = Entire Yard (Composite) Sample  
GB = Grab Sample  
HQ = Hazard quotient  
RSL = Regional Screening Levels  
RML = Removal Management Levels  
N/A = Not applicable  
Q = Qualifier  
**Bolded results indicate detections**  
**Shaded results indicate exceedance of screening value with correlating shading**

**Qualifiers**  
J = The result is an estimated quantity.  
U = The analyte was not detected above the quantitation limit.  
UJ = The analyte was not detected. Additionally, the quantitation limit is may be inaccurate or imprecise.  
R = The data are unusable. The sample results are rejected due to serious deficiencies in meeting QC criteria. The analyte may or may not be present in the sample.

**Validated Analytical Results for Semivolatile Organic Compounds**  
**East Avenue Study Area**  
**October, 2024**

Semivolatile Organic Compounds		Sample Number:	EA0016-EY	EA0016-GB	EA0017-EY	EA0017-GB	EA0018-EY	EA0018-GB						
		Sampling Location:	16	16	17	17	18	18						
		Matrix:	Soil	Soil	Soil	Soil	Soil	Soil						
		Units:	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg						
		Date Sampled:	10/30/2024	10/30/2024	10/30/2024	10/30/2024	10/30/2024	10/30/2024						
Parameter	EPA RSL Residential Soil HQ = 0.1 (µg/kg)	EPA RML Residential Soil HQ = 3.0 (µg/kg)	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q		
1,1'-Biphenyl	4,700	140,000	190	U	190	U	200	U	200	U	190	U	190	U
1,2,4,5-Tetrachlorobenzene	230	7,000	190	U	190	U	200	U	200	U	190	U	190	U
1,4-Dioxane	5,300	530,000	76	R	75	R	79	R	78	R	76	R	76	R
1-Methylnaphthalene	18	550	190	U	190	U	100	J	200	U	190	U	190	U
2,2'-Oxybis(1-chloropropane)	310,000	9,400,000	380	U	370	U	390	U	380	U	370	U	380	U
2,3,4,6-Tetrachlorophenol	190,000	5,700,000	190	U	190	U	200	U	200	U	190	U	190	U
2,4,5-Trichlorophenol	630,000	19,000,000	190	U	190	U	200	U	200	U	190	U	190	U
2,4,6-Trichlorophenol	6,300	190,000	190	U	190	U	200	U	200	U	190	U	190	U
2,4-Dichlorophenol	19,000	570,000	190	U	190	U	200	U	200	U	190	U	190	U
2,4-Dimethylphenol	130,000	3,800,000	190	U	190	U	200	U	200	U	190	U	190	U
2,4-Dinitrophenol	13,000	380,000	380	U	370	U	390	U	380	U	370	U	380	U
2,4-Dinitrotoluene	1,700	170,000	190	U	190	U	200	U	200	U	190	U	190	U
2,6-Dinitrotoluene	360	36,000	190	U	190	U	200	U	200	U	190	U	190	U
2-Chloronaphthalene	480,000	14,000,000	190	U	190	U	200	U	200	U	190	U	190	U
2-Chlorophenol	39,000	1,200,000	190	U	190	U	200	U	200	U	190	U	190	U
2-Methylnaphthalene	24,000	720,000	190	U	190	U	73	J	200	U	190	U	190	U
2-Methylphenol	320,000	9,500,000	380	U	370	U	390	U	380	U	370	U	380	U
2-Nitroaniline	63,000	1,900,000	190	U	190	U	200	U	200	U	190	U	190	U
2-Nitrophenol	N/A	N/A	190	U	190	U	200	U	200	U	190	U	190	U
3,3'-Dichlorobenzidine	1,200	120,000	380	U	370	U	390	U	380	U	370	U	380	U
3-Nitroaniline	N/A	N/A	380	U	370	U	390	U	380	U	370	U	380	U
4,6-Dinitro-2-methylphenol	510	15,000	380	U	370	U	390	U	380	U	370	U	380	U
4-Bromophenyl-phenylether	N/A	N/A	190	U	190	U	200	U	200	U	190	U	190	U
4-Chloro-3-methylphenol	630,000	19,000,000	190	U	190	U	200	U	200	U	190	U	190	U
4-Chloroaniline	2,700	95,000	380	U	370	U	390	U	380	U	370	U	380	U
4-Chlorophenyl-phenyl ether	N/A	N/A	190	U	190	U	200	U	200	U	190	U	190	U
4-Methylphenol	130,000	3,800,000	380	U	370	U	390	U	380	U	370	U	380	U
4-Nitroaniline	25,000	760,000	380	U	370	U	390	U	380	U	370	U	380	U
4-Nitrophenol	N/A	N/A	380	U	370	U	390	U	380	U	370	U	380	U
Acenaphthene	360,000	11,000,000	190	U	190	U	67	J	200	U	190	U	190	U
Acenaphthylene	N/A	N/A	190	U	190	U	280	J	200	U	190	U	190	U
Acetophenone	780,000	23,000,000	380	U	370	U	390	U	380	U	370	U	380	U
Anthracene	1,800,000	54,000,000	53	J	190	U	160	J	41	J	46	J	190	U
Atrazine	2,400	240,000	380	U	370	U	390	U	380	U	370	U	380	U
Benzaldehyde	170,000	17,000,000	380	U	370	U	390	U	380	U	370	U	380	U
Benzo(a)anthracene	1,100	110,000	240	J	54	J	1100	J	180	J	190	J	100	J
Benzo(a)pyrene	110	11,000	220	J	51	J	1200	J	170	J	190	J	96	J
Benzo(b)fluoranthene	1,100	110,000	320	J	74	J	1800	J	240	J	280	J	140	J
Benzo(g,h,i)perylene	N/A	N/A	130	J	190	U	820	J	110	J	130	J	65	J
Benzo(k)fluoranthene	11,000	1,100,000	120	J	190	U	700	J	90	J	95	J	52	J
Bis(2-chloroethoxy)methane	19,000	570,000	190	U	190	U	200	U	200	U	190	U	190	U
Bis(2-chloroethyl)ether	230	23,000	380	U	370	U	390	U	380	U	370	U	380	U
Bis(2-ethylhexyl)phthalate	39,000	3,800,000	190	U	190	U	130	J	200	U	120	J	170	J
Butylbenzylphthalate	290,000	29,000,000	190	U	190	U	200	U	200	U	200	U	1400	J
Caprolactam	3,100,000	94,000,000	380	U	370	U	390	U	380	U	370	U	380	U
Carbazole	N/A	N/A	380	U	370	U	300	J	380	U	370	U	380	U
Chrysene	110,000	11,000,000	240	J	59	J	1400	J	180	J	200	J	110	J
Dibenzo(a,h)anthracene	110	11,000	190	U	190	U	210	J	200	U	190	U	190	U
Dibenzofuran	7,800	230,000	190	U	190	U	140	J	200	U	190	U	190	U
Diethylphthalate	5,100,000	150,000,000	190	U	190	U	200	U	200	U	190	U	190	U
Dimethylphthalate	N/A	N/A	190	U	190	U	200	U	200	U	190	U	190	U
Di-n-butylphthalate	630,000	19,000,000	190	U	190	U	200	U	200	U	78	J	190	U
Di-n-octylphthalate	63,000	1,900,000	380	U	370	U	390	U	380	U	370	U	380	U
Fluoranthene	240,000	7,200,000	530	J	120	J	3600	J	470	J	450	J	200	J
Fluorene	240,000	7,200,000	190	U	190	U	83	J	200	U	190	U	190	U
Hexachlorobenzene	78	2,300	190	U	190	U	200	U	200	U	190	U	190	U
Hexachlorobutadiene	1,200	120,000	190	U	190	U	200	U	200	U	190	U	190	U
Hexachlorocyclopentadiene	180	5,300	380	U	370	U	390	U	380	U	370	U	380	U
Hexachloroethane	1,800	130,000	190	U	190	U	200	U	200	U	190	U	190	U
Indeno(1,2,3-cd)pyrene	1,100	110,000	160	J	190	U	1000	J	130	J	140	J	76	J
Isophorone	570,000	38,000,000	190	U	190	U	200	U	200	U	190	U	190	U
Naphthalene	2,000	200,000	190	U	190	U	140	J	200	U	190	U	190	U
Nitrobenzene	5,100	380,000	190	U	190	U	200	U	200	U	190	U	190	U
N-Nitroso-di-n-propylamine	78	7,800	190	U	190	U	200	U	200	U	190	U	190	U
N-Nitrosodiphenylamine	110,000	11,000,000	190	U	190	U	200	U	200	U	190	U	190	U
Pentachlorophenol	1,000	100,000	380	U	370	U	390	U	380	U	370	U	380	U
Phenanthrene	N/A	N/A	210	J	59	J	2800	J	240	J	220	J	79	J
Phenol	1,900,000	57,000,000	380	U	370	U	390	U	380	U	370	U	380	U
Pyrene	180,000	5,400,000	420	J	99	J	3000	J	350	J	350	J	160	J

**NOTES:**  
µg/kg = Micrograms per kilogram  
EPA = U.S. Environmental Protection Agency  
EY = Entire Yard (Composite) Sample  
GB = Grab Sample  
HQ = Hazard quotient  
RSL = Regional Screening Levels  
RML = Removal Management Levels  
N/A = Not applicable  
Q = Qualifier  
**Bolded results indicate detections**  
**Shaded results indicate exceedance of screening value with correlating shading**

**Qualifiers**  
J = The result is an estimated quantity.  
U = The analyte was not detected above the quantitation limit.  
UJ = The analyte was not detected. Additionally, the quantitation limit is may be inaccurate or imprecise.  
R = The data are unusable. The sample results are rejected due to serious deficiencies in meeting QC criteria. The analyte may or may not be present in the sample.

**Validated Analytical Results for Semivolatile Organic Compounds**  
**East Avenue Study Area**  
**October, 2024**

Semivolatile Organic Compounds		Sample Number:	EA0019-EY	EA0019-GB	EA0020-EY	EA0020-GB	EA0021-EY	EA0021-GB						
		Sampling Location:	19	19	20	20	21	21						
		Matrix:	Soil	Soil	Soil	Soil	Soil	Soil						
		Units:	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg						
		Date Sampled:	10/30/2024	10/30/2024	10/30/2024	10/30/2024	10/31/2024	10/31/2024						
Parameter	EPA RSL Residential Soil HQ = 0.1 (µg/kg)	EPA RML Residential Soil HQ = 3.0 (µg/kg)	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q		
1,1'-Biphenyl	4,700	140,000	200	U	190	U	200	U	190	U	190	U	190	U
1,2,4,5-Tetrachlorobenzene	230	7,000	200	U	190	U	200	U	190	U	190	U	190	U
1,4-Dioxane	5,300	530,000	78	R	77	R	77	R	75	R	75	R	74	R
1-Methylnaphthalene	18	550	200	U	190	U	200	U	190	U	190	U	190	U
2,2'-Oxybis(1-chloropropane)	310,000	9,400,000	380	U	380	U	380	U	370	U	370	U	370	U
2,3,4,6-Tetrachlorophenol	190,000	5,700,000	200	U	190	U	200	U	190	U	190	U	190	U
2,4,5-Trichlorophenol	630,000	19,000,000	200	U	190	U	200	U	190	U	190	U	190	U
2,4,6-Trichlorophenol	6,300	190,000	200	U	190	U	200	U	190	U	190	U	190	U
2,4-Dichlorophenol	19,000	570,000	200	U	190	U	200	U	190	U	190	U	190	U
2,4-Dimethylphenol	130,000	3,800,000	200	U	190	U	200	U	190	U	190	U	190	U
2,4-Dinitrophenol	13,000	380,000	380	U	380	U	380	U	370	U	370	U	370	U
2,4-Dinitrotoluene	1,700	170,000	200	U	190	U	200	U	190	U	190	U	190	U
2,6-Dinitrotoluene	360	36,000	200	U	190	U	200	U	190	U	190	U	190	U
2-Chloronaphthalene	480,000	14,000,000	200	U	190	U	200	U	190	U	190	U	190	U
2-Chlorophenol	39,000	1,200,000	200	U	190	U	200	U	190	U	190	U	190	U
2-Methylnaphthalene	24,000	720,000	200	U	190	U	200	U	190	U	190	U	190	U
2-Methylphenol	320,000	9,500,000	380	U	380	U	380	U	370	U	370	U	370	U
2-Nitroaniline	63,000	1,900,000	200	U	190	U	200	U	190	U	190	U	190	U
2-Nitrophenol	N/A	N/A	200	U	190	U	200	U	190	U	190	U	190	U
3,3'-Dichlorobenzidine	1,200	120,000	380	U	380	U	380	U	370	U	370	U	370	U
3-Nitroaniline	N/A	N/A	380	U	380	U	380	U	370	U	370	U	370	U
4,6-Dinitro-2-methylphenol	510	15,000	380	U	380	U	380	U	370	U	370	U	370	U
4-Bromophenyl-phenylether	N/A	N/A	200	U	190	U	200	U	190	U	190	U	190	U
4-Chloro-3-methylphenol	630,000	19,000,000	200	U	190	U	200	U	190	U	190	U	190	U
4-Chloroaniline	2,700	95,000	380	U	380	U	380	U	370	U	370	U	370	U
4-Chlorophenyl-phenyl ether	N/A	N/A	200	U	190	U	200	U	190	U	190	U	190	U
4-Methylphenol	130,000	3,800,000	380	U	380	U	380	U	370	U	370	U	370	U
4-Nitroaniline	25,000	760,000	380	U	380	U	380	U	370	U	370	U	370	U
4-Nitrophenol	N/A	N/A	380	U	380	U	380	U	370	U	370	U	370	U
Acenaphthene	360,000	11,000,000	200	U	190	U	200	U	190	U	190	U	190	U
Acenaphthylene	N/A	N/A	54	J	65	J	200	U	190	U	190	U	190	U
Acetophenone	780,000	23,000,000	380	U	380	U	380	U	370	U	370	U	370	U
Anthracene	1,800,000	54,000,000	62	J	41	J	39	J	190	U	190	U	190	U
Atrazine	2,400	240,000	380	U	380	U	380	U	370	U	370	U	370	U
Benzaldehyde	170,000	17,000,000	380	U	380	U	380	U	370	U	370	U	370	U
Benzo(a)anthracene	1,100	110,000	340	J	180	J	190	J	78	J	150	J	120	J
Benzo(a)pyrene	110	11,000	320	J	180	J	170	J	77	J	140	J	120	J
Benzo(b)fluoranthene	1,100	110,000	470	J	280	J	260	J	120	J	210	J	180	J
Benzo(g,h,i)perylene	N/A	N/A	200	J	120	J	100	J	50	J	90	J	75	J
Benzo(k)fluoranthene	11,000	1,100,000	150	J	94	J	84	J	42	J	73	J	62	J
Bis(2-chloroethoxy)methane	19,000	570,000	200	U	190	U	200	U	190	U	190	U	190	U
Bis(2-chloroethyl)ether	230	23,000	380	U	380	U	380	U	370	U	370	U	370	U
Bis(2-ethylhexyl)phthalate	39,000	3,800,000	90	J	410	J	340	J	84	J	46	J	190	U
Butylbenzylphthalate	290,000	29,000,000	200	U	190	U	200	U	190	U	190	U	190	U
Caprolactam	3,100,000	94,000,000	380	U	380	U	380	U	370	U	370	U	370	U
Carbazole	N/A	N/A	380	U	380	U	380	U	370	U	370	U	370	U
Chrysene	110,000	11,000,000	370	J	200	J	190	J	87	J	160	J	130	J
Dibenzo(a,h)anthracene	110	11,000	56	J	40	J	200	U	190	U	190	U	190	U
Dibenzofuran	7,800	230,000	200	U	190	U	200	U	190	U	190	U	190	U
Diethylphthalate	5,100,000	150,000,000	200	U	190	U	200	U	190	U	190	U	190	U
Dimethylphthalate	N/A	N/A	200	U	190	U	200	U	190	U	190	U	190	U
Di-n-butylphthalate	630,000	19,000,000	200	U	190	U	200	U	190	U	190	U	190	U
Di-n-octylphthalate	63,000	1,900,000	380	U	380	U	380	U	370	U	370	U	370	U
Fluoranthene	240,000	7,200,000	830	J	440	J	440	J	190	J	370	J	270	J
Fluorene	240,000	7,200,000	200	U	190	U	200	U	190	U	190	U	190	U
Hexachlorobenzene	78	2,300	200	U	190	U	200	U	190	U	190	U	190	U
Hexachlorobutadiene	1,200	120,000	200	U	190	U	200	U	190	U	190	U	190	U
Hexachlorocyclopentadiene	180	5,300	380	U	380	U	380	U	370	U	370	U	370	U
Hexachloroethane	1,800	130,000	200	U	190	U	200	U	190	U	190	U	190	U
Indeno(1,2,3-cd)pyrene	1,100	110,000	240	J	140	J	130	J	63	J	110	J	92	J
Isophorone	570,000	38,000,000	200	U	190	U	200	U	190	U	190	U	190	U
Naphthalene	2,000	200,000	200	U	190	U	200	U	190	U	190	U	190	U
Nitrobenzene	5,100	380,000	200	U	190	U	200	U	190	U	190	U	190	U
N-Nitroso-di-n-propylamine	78	7,800	200	U	190	U	200	U	190	U	190	U	190	U
N-Nitrosodiphenylamine	110,000	11,000,000	200	U	190	U	200	U	190	U	190	U	190	U
Pentachlorophenol	1,000	100,000	380	U	380	U	380	U	370	U	370	U	370	U
Phenanthrene	N/A	N/A	360	J	230	J	190	J	69	J	170	J	130	J
Phenol	1,900,000	57,000,000	380	U	380	U	380	U	370	U	370	U	370	U
Pyrene	180,000	5,400,000	620	J	330	J	340	J	150	J	290	J	210	J

**NOTES:**

µg/kg = Micrograms per kilogram  
EPA = U.S. Environmental Protection Agency  
EY = Entire Yard (Composite) Sample  
GB = Grab Sample  
HQ = Hazard quotient  
RSL = Regional Screening Levels  
RML = Removal Management Levels  
N/A = Not applicable  
Q = Qualifier

**Bolded results indicate detections**

**Shaded results indicate exceedance of screening value with correlating shading**

**Qualifiers**

J = The result is an estimated quantity.  
U = The analyte was not detected above the quantitation limit.  
UJ = The analyte was not detected. Additionally, the quantitation limit is may be inaccurate or imprecise.  
R = The data are unusable. The sample results are rejected due to serious deficiencies in meeting QC criteria. The analyte may or may not be present in the sample.

**Validated Analytical Results for Semivolatile Organic Compounds**  
**East Avenue Study Area**  
**October, 2024**

Semivolatile Organic Compounds		Sample Number:	EA0022-EY	EA0022-GB	EA0023-EY	EA0023-GB	EA0024-EY	EA0024-GB						
		Sampling Location:	22	22	23	23	24	24						
		Matrix:	Soil	Soil	Soil	Soil	Soil	Soil						
		Units:	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg						
		Date Sampled:	10/30/2024	10/30/2024	10/31/2024	10/31/2024	10/30/2024	10/30/2024						
Parameter	EPA RSL Residential Soil HQ = 0.1 (µg/kg)	EPA RML Residential Soil HQ = 3.0 (µg/kg)	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q		
1,1'-Biphenyl	4,700	140,000	190	U	200	U	190	U	190	U	200	U	180	U
1,2,4,5-Tetrachlorobenzene	230	7,000	190	U	200	U	190	U	190	U	200	U	180	U
1,4-Dioxane	5,300	530,000	76	R	78	R	74	R	74	R	78	R	73	R
1-Methylnaphthalene	18	550	190	U	200	U	190	U	190	U	200	U	180	U
2,2'-Oxybis(1-chloropropane)	310,000	9,400,000	370	U	380	U	370	U	370	U	390	U	360	U
2,3,4,6-Tetrachlorophenol	190,000	5,700,000	190	U	200	U	190	U	190	U	200	U	180	U
2,4,5-Trichlorophenol	630,000	19,000,000	190	U	200	U	190	U	190	U	200	U	180	U
2,4,6-Trichlorophenol	6,300	190,000	190	U	200	U	190	U	190	U	200	U	180	U
2,4-Dichlorophenol	19,000	570,000	190	U	200	U	190	U	190	U	200	U	180	U
2,4-Dimethylphenol	130,000	3,800,000	190	U	200	U	190	U	190	U	200	U	180	U
2,4-Dinitrophenol	13,000	380,000	370	U	380	U	370	U	370	U	390	U	360	U
2,4-Dinitrotoluene	1,700	170,000	190	U	200	U	190	U	190	U	200	U	180	U
2,6-Dinitrotoluene	360	36,000	190	U	200	U	190	U	190	U	200	U	180	U
2-Chloronaphthalene	480,000	14,000,000	190	U	200	U	190	U	190	U	200	U	180	U
2-Chlorophenol	39,000	1,200,000	190	U	200	U	190	U	190	U	200	U	180	U
2-Methylnaphthalene	24,000	720,000	190	U	200	U	190	U	190	U	200	U	180	U
2-Methylphenol	320,000	9,500,000	370	U	380	U	370	U	370	U	390	U	360	U
2-Nitroaniline	63,000	1,900,000	190	U	200	U	190	U	190	U	200	U	180	U
2-Nitrophenol	N/A	N/A	190	U	200	U	190	U	190	U	200	U	180	U
3,3'-Dichlorobenzidine	1,200	120,000	370	U	380	U	370	U	370	U	390	U	360	U
3-Nitroaniline	N/A	N/A	370	U	380	U	370	U	370	U	390	U	360	U
4,6-Dinitro-2-methylphenol	510	15,000	370	U	380	U	370	U	370	U	390	U	360	U
4-Bromophenyl-phenylether	N/A	N/A	190	U	200	U	190	U	190	U	200	U	180	U
4-Chloro-3-methylphenol	630,000	19,000,000	190	U	200	U	190	U	190	U	200	U	180	U
4-Chloroaniline	2,700	95,000	370	U	380	U	370	U	370	U	390	U	360	U
4-Chlorophenyl-phenyl ether	N/A	N/A	190	U	200	U	190	U	190	U	200	U	180	U
4-Methylphenol	130,000	3,800,000	370	U	380	U	370	U	370	U	390	U	360	U
4-Nitroaniline	25,000	760,000	370	U	380	U	370	U	370	U	390	U	360	U
4-Nitrophenol	N/A	N/A	370	U	380	U	370	U	370	U	390	U	360	U
Acenaphthene	360,000	11,000,000	190	U	200	U	190	U	190	U	200	U	180	U
Acenaphthylene	N/A	N/A	44	J	40	J	190	U	190	U	110	J	180	U
Acetophenone	780,000	23,000,000	370	U	380	U	370	U	370	U	390	U	360	U
Anthracene	1,800,000	54,000,000	44	J	58	J	190	U	190	U	150	J	180	U
Atrazine	2,400	240,000	370	U	380	U	370	U	370	U	390	U	360	U
Benzaldehyde	170,000	17,000,000	370	U	380	U	370	U	370	U	390	U	360	U
Benzo(a)anthracene	1,100	110,000	250	J	210	J	110	J	110	J	620	J	40	J
Benzo(a)pyrene	110	11,000	260	J	200	J	110	J	110	J	580	J	180	U
Benzo(b)fluoranthene	1,100	110,000	390	J	290	J	160	J	160	J	870	J	59	J
Benzo(g,h,i)perylene	N/A	N/A	160	J	120	J	67	J	76	J	350	J	180	U
Benzo(k)fluoranthene	11,000	1,100,000	130	J	110	J	60	J	57	J	330	J	180	U
Bis(2-chloroethoxy)methane	19,000	570,000	190	U	200	U	190	U	190	U	200	U	180	U
Bis(2-chloroethyl)ether	230	23,000	370	U	380	U	370	U	370	U	390	U	360	U
Bis(2-ethylhexyl)phthalate	39,000	3,800,000	140	J	66	J	190	U	190	U	84	J	180	U
Butylbenzylphthalate	290,000	29,000,000	190	U	200	U	190	U	190	U	200	U	180	U
Caprolactam	3,100,000	94,000,000	370	U	380	U	370	U	370	U	390	U	360	U
Carbazole	N/A	N/A	370	U	380	U	370	U	370	U	68	J	360	U
Chrysene	110,000	11,000,000	260	J	230	J	120	J	120	J	640	J	180	U
Dibenzo(a,h)anthracene	110	11,000	46	J	200	U	190	U	190	U	96	J	180	U
Dibenzofuran	7,800	230,000	190	U	200	U	190	U	190	U	200	U	180	U
Diethylphthalate	5,100,000	150,000,000	190	U	200	U	190	U	190	U	200	U	180	U
Dimethylphthalate	N/A	N/A	190	U	200	U	190	U	190	U	200	U	180	U
Di-n-butylphthalate	630,000	19,000,000	190	U	200	U	190	U	190	U	200	U	180	U
Di-n-octylphthalate	63,000	1,900,000	370	U	380	U	370	U	370	U	390	U	360	U
Fluoranthene	240,000	7,200,000	600	J	590	J	250	J	230	J	1500	J	92	J
Fluorene	240,000	7,200,000	190	U	200	U	190	U	190	U	200	U	180	U
Hexachlorobenzene	78	2,300	190	U	200	U	190	U	190	U	200	U	180	U
Hexachlorobutadiene	1,200	120,000	190	U	200	U	190	U	190	U	200	U	180	U
Hexachlorocyclopentadiene	180	5,300	370	U	380	U	370	U	370	U	390	U	360	U
Hexachloroethane	1,800	130,000	190	U	200	U	190	U	190	U	200	U	180	U
Indeno(1,2,3-cd)pyrene	1,100	110,000	200	J	150	J	81	J	84	J	420	J	180	U
Isophorone	570,000	38,000,000	190	U	200	U	190	U	190	U	200	U	180	U
Naphthalene	2,000	200,000	190	U	40	J	190	U	190	U	200	U	180	U
Nitrobenzene	5,100	380,000	190	U	200	U	190	U	190	U	200	U	180	U
N-Nitroso-di-n-propylamine	78	7,800	190	U	200	U	190	U	190	U	200	U	180	U
N-Nitrosodiphenylamine	110,000	11,000,000	190	U	200	U	190	U	190	U	200	U	180	U
Pentachlorophenol	1,000	100,000	370	U	380	U	370	U	370	U	390	U	360	U
Phenanthrene	N/A	N/A	250	J	430	J	110	J	110	J	720	J	180	U
Phenol	1,900,000	57,000,000	370	U	380	U	370	U	370	U	390	U	360	U
Pyrene	180,000	5,400,000	460	J	450	J	200	J	190	J	1100	J	77	J

**NOTES:**  
µg/kg = Micrograms per kilogram  
EPA = U.S. Environmental Protection Agency  
EY = Entire Yard (Composite) Sample  
GB = Grab Sample  
HQ = Hazard quotient  
RSL = Regional Screening Levels  
RML = Removal Management Levels  
N/A = Not applicable  
Q = Qualifier  
**Bolded results indicate detections**  
**Shaded results indicate exceedance of screening value with correlating shading**

**Qualifiers**  
J = The result is an estimated quantity.  
U = The analyte was not detected above the quantitation limit.  
UJ = The analyte was not detected. Additionally, the quantitation limit is may be inaccurate or imprecise.  
R = The data are unusable. The sample results are rejected due to serious deficiencies in meeting QC criteria. The analyte may or may not be present in the sample.

**Validated Analytical Results for Semivolatile Organic Compounds**  
**East Avenue Study Area**  
**October, 2024**

Semivolatile Organic Compounds		Sample Number:	EA0025-EY	EA0025-GB	EA0026-EY	EA0026-GB	EA0027-EY	EA0027-GB						
		Sampling Location:	25	25	26	26	27	27						
		Matrix:	Soil	Soil	Soil	Soil	Soil	Soil						
		Units:	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg						
		Date Sampled:	10/31/2024	10/31/2024	10/31/2024	10/31/2024	10/31/2024	10/31/2024						
Parameter	EPA RSL Residential Soil HQ = 0.1 (µg/kg)	EPA RML Residential Soil HQ = 3.0 (µg/kg)	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q		
1,1'-Biphenyl	4,700	140,000	190	U	180	U	210	U	210	U	190	U	190	U
1,2,4,5-Tetrachlorobenzene	230	7,000	190	U	180	U	210	U	210	U	190	U	190	U
1,4-Dioxane	5,300	530,000	73	R	70	R	83	R	84	R	76	R	75	R
1-Methylnaphthalene	18	550	190	U	180	U	210	U	210	U	190	U	190	U
2,2'-Oxybis(1-chloropropane)	310,000	9,400,000	360	U	350	U	410	U	410	U	380	U	370	U
2,3,4,6-Tetrachlorophenol	190,000	5,700,000	190	U	180	U	210	U	210	U	190	U	190	U
2,4,5-Trichlorophenol	630,000	19,000,000	190	U	180	U	210	U	210	U	190	U	190	U
2,4,6-Trichlorophenol	6,300	190,000	190	U	180	U	210	U	210	U	190	U	190	U
2,4-Dichlorophenol	19,000	570,000	190	U	180	U	210	U	210	U	190	U	190	U
2,4-Dimethylphenol	130,000	3,800,000	190	U	180	U	210	U	210	U	190	U	190	U
2,4-Dinitrophenol	13,000	380,000	360	U	350	U	410	U	410	U	380	U	370	U
2,4-Dinitrotoluene	1,700	170,000	190	U	180	U	210	U	210	U	190	U	190	U
2,6-Dinitrotoluene	360	36,000	190	U	180	U	210	U	210	U	190	U	190	U
2-Chloronaphthalene	480,000	14,000,000	190	U	180	U	210	U	210	U	190	U	190	U
2-Chlorophenol	39,000	1,200,000	190	U	180	U	210	U	210	U	190	U	190	U
2-Methylnaphthalene	24,000	720,000	190	U	180	U	210	U	210	U	190	U	190	U
2-Methylphenol	320,000	9,500,000	360	U	350	U	410	U	410	U	380	U	370	U
2-Nitroaniline	63,000	1,900,000	190	U	180	U	210	U	210	U	190	U	190	U
2-Nitrophenol	N/A	N/A	190	U	180	U	210	U	210	U	190	U	190	U
3,3'-Dichlorobenzidine	1,200	120,000	360	U	350	U	410	U	410	U	380	U	370	U
3-Nitroaniline	N/A	N/A	360	U	350	U	410	U	410	U	380	U	370	U
4,6-Dinitro-2-methylphenol	510	15,000	360	U	350	U	410	U	410	U	380	U	370	U
4-Bromophenyl-phenylether	N/A	N/A	190	U	180	U	210	U	210	U	190	U	190	U
4-Chloro-3-methylphenol	630,000	19,000,000	190	U	180	U	210	U	210	U	190	U	190	U
4-Chloroaniline	2,700	95,000	360	U	350	U	410	U	410	U	380	U	370	U
4-Chlorophenyl-phenyl ether	N/A	N/A	190	U	180	U	210	U	210	U	190	U	190	U
4-Methylphenol	130,000	3,800,000	360	U	350	U	410	U	410	U	380	U	370	U
4-Nitroaniline	25,000	760,000	360	U	350	U	410	U	410	U	380	U	370	U
4-Nitrophenol	N/A	N/A	360	U	350	U	410	U	410	U	380	U	370	U
Acenaphthene	360,000	11,000,000	190	U	180	U	210	U	210	U	190	U	190	U
Acenaphthylene	N/A	N/A	190	U	180	U	46	J	210	U	190	U	190	U
Acetophenone	780,000	23,000,000	360	U	350	U	410	U	410	U	380	U	370	U
Anthracene	1,800,000	54,000,000	190	U	180	U	75	J	210	U	60	J	190	U
Atrazine	2,400	240,000	360	U	350	U	410	U	410	U	380	U	370	U
Benzaldehyde	170,000	17,000,000	360	U	350	U	410	U	410	U	380	U	370	U
Benzo(a)anthracene	1,100	110,000	160	J	99	J	460		79	J	230		65	J
Benzo(a)pyrene	110	11,000	160	J	110	J	470		79	J	200		58	J
Benzo(b)fluoranthene	1,100	110,000	260		160	J	630		120	J	270		87	J
Benzo(g,h,i)perylene	N/A	N/A	110	J	76	J	280	J	210	U	120	J	190	U
Benzo(k)fluoranthene	11,000	1,100,000	85	J	55	J	230		210	U	100	J	190	U
Bis(2-chloroethoxy)methane	19,000	570,000	190	U	180	U	210	U	210	U	190	U	190	U
Bis(2-chloroethyl)ether	230	23,000	360	U	350	U	410	U	410	U	380	U	370	U
Bis(2-ethylhexyl)phthalate	39,000	3,800,000	190	U	180	U	89	J	210	U	100	J	190	U
Butylbenzylphthalate	290,000	29,000,000	190	U	180	U	210	U	210	U	190	U	190	U
Caprolactam	3,100,000	94,000,000	360	U	350	U	410	U	410	U	380	U	370	U
Carbazole	N/A	N/A	360	U	350	U	410	U	410	U	380	U	370	U
Chrysene	110,000	11,000,000	180	J	100	J	470		88	J	210		67	J
Dibenzo(a,h)anthracene	110	11,000	190	U	180	U	76	J	210	U	190	U	190	U
Dibenzofuran	7,800	230,000	190	U	180	U	210	U	210	U	190	U	190	U
Diethylphthalate	5,100,000	150,000,000	190	U	180	U	210	U	210	U	190	U	190	U
Dimethylphthalate	N/A	N/A	190	U	180	U	210	U	210	U	190	U	190	U
Di-n-butylphthalate	630,000	19,000,000	190	U	180	U	210	U	210	U	190	U	190	U
Di-n-octylphthalate	63,000	1,900,000	360	U	350	U	410	U	410	U	380	U	370	U
Fluoranthene	240,000	7,200,000	360		180		1000		200	J	520		140	J
Fluorene	240,000	7,200,000	190	U	180	U	210	U	210	U	190	U	190	U
Hexachlorobenzene	78	2,300	190	U	180	U	210	U	210	U	190	U	190	U
Hexachlorobutadiene	1,200	120,000	190	U	180	U	210	U	210	U	190	U	190	U
Hexachlorocyclopentadiene	180	5,300	360	U	350	U	410	U	410	U	380	U	370	U
Hexachloroethane	1,800	130,000	190	U	180	U	210	U	210	U	190	U	190	U
Indeno(1,2,3-cd)pyrene	1,100	110,000	130	J	86	J	330	J	59	J	140	J	49	J
Isophorone	570,000	38,000,000	190	U	180	U	210	U	210	U	190	U	190	U
Naphthalene	2,000	200,000	190	U	180	U	210	U	210	U	190	U	190	U
Nitrobenzene	5,100	380,000	190	U	180	U	210	U	210	U	190	U	190	U
N-Nitroso-di-n-propylamine	78	7,800	190	U	180	U	210	U	210	U	190	U	190	U
N-Nitrosodiphenylamine	110,000	11,000,000	190	U	180	U	210	U	210	U	190	U	190	U
Pentachlorophenol	1,000	100,000	360	U	350	U	410	U	410	U	380	U	370	U
Phenanthrene	N/A	N/A	160	J	81	J	410		91	J	160	J	69	J
Phenol	1,900,000	57,000,000	360	U	350	U	410	U	410	U	380	U	370	U
Pyrene	180,000	5,400,000	280		150	J	800		160	J	410		120	J

**NOTES:**  
µg/kg = Micrograms per kilogram  
EPA = U.S. Environmental Protection Agency  
EY = Entire Yard (Composite) Sample  
GB = Grab Sample  
HQ = Hazard quotient  
RSL = Regional Screening Levels  
RML = Removal Management Levels  
N/A = Not applicable  
Q = Qualifier  
**Bolded results indicate detections**  
**Shaded results indicate exceedance of screening value with correlating shading**

**Qualifiers**  
J = The result is an estimated quantity.  
U = The analyte was not detected above the quantitation limit.  
UJ = The analyte was not detected. Additionally, the quantitation limit is may be inaccurate or imprecise.  
R = The data are unusable. The sample results are rejected due to serious deficiencies in meeting QC criteria. The analyte may or may not be present in the sample.

**Validated Analytical Results for Semivolatile Organic Compounds**  
**East Avenue Study Area**  
**October, 2024**

Semivolatile Organic Compounds		Sample Number:	EA0028-EY	EA0028-GB	EA0029-EY	EA0029-GB	EA0029-GB-DUP	EA0030-EY	EA0030-GB							
		Sampling Location:	28	28	29	29	29	30	30							
		Matrix:	Soil	Soil	Soil	Soil	Soil	Soil	Soil							
		Units:	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg							
		Date Sampled:	10/31/2024	10/31/2024	10/31/2024	10/31/2024	10/31/2024	10/31/2024	10/31/2024							
Parameter	EPA RSL Residential Soil HQ = 0.1 (µg/kg)	EPA RML Residential Soil HQ = 3.0 (µg/kg)	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q		
	1,1'-Biphenyl	4,700	140,000	210	U	210	U	200	U	200	U	200	U	210	U	210
1,2,4,5-Tetrachlorobenzene	230	7,000	210	U	210	U	200	U	200	U	200	U	210	U	210	U
1,4-Dioxane	5,300	530,000	81	R	82	R	80	R	79	R	80	R	82	R	84	R
1-Methylnaphthalene	18	550	210	U	210	U	200	U	200	U	200	U	210	U	180	J
2,2'-Oxybis(1-chloropropane)	310,000	9,400,000	400	U	400	U	390	U	390	U	390	U	400	U	420	U
2,3,4,6-Tetrachlorophenol	190,000	5,700,000	210	U	210	U	200	U	200	U	200	U	210	U	210	U
2,4,5-Trichlorophenol	630,000	19,000,000	210	U	210	U	200	U	200	U	200	U	210	U	210	U
2,4,6-Trichlorophenol	6,300	190,000	210	U	210	U	200	U	200	U	200	U	210	U	210	U
2,4-Dichlorophenol	19,000	570,000	210	U	210	U	200	U	200	U	200	U	210	U	210	U
2,4-Dimethylphenol	130,000	3,800,000	210	U	210	U	200	U	200	U	200	U	210	U	210	U
2,4-Dinitrophenol	13,000	380,000	400	U	400	U	390	U	390	U	390	U	400	U	420	U
2,4-Dinitrotoluene	1,700	170,000	210	U	210	U	200	U	200	U	200	U	210	U	210	U
2,6-Dinitrotoluene	360	36,000	210	U	210	U	200	U	200	U	200	U	210	U	210	U
2-Chloronaphthalene	480,000	14,000,000	210	U	210	U	200	U	200	U	200	U	210	U	210	U
2-Chlorophenol	39,000	1,200,000	210	U	210	U	200	U	200	U	200	U	210	U	210	U
2-Methylnaphthalene	24,000	720,000	210	U	210	U	200	U	54	J	200	U	210	U	240	J
2-Methylphenol	320,000	9,500,000	400	U	400	U	390	U	390	U	390	U	400	U	420	U
2-Nitroaniline	63,000	1,900,000	210	U	210	U	200	U	200	U	200	U	210	U	210	U
2-Nitrophenol	N/A	N/A	210	U	210	U	200	U	200	U	200	U	210	U	210	U
3,3'-Dichlorobenzidine	1,200	120,000	400	U	400	U	390	U	390	U	390	U	400	U	420	U
3-Nitroaniline	N/A	N/A	400	U	400	U	390	U	390	U	390	U	400	U	420	U
4,6-Dinitro-2-methylphenol	510	15,000	400	U	400	U	390	U	390	U	390	U	400	U	420	U
4-Bromophenyl-phenylether	N/A	N/A	210	U	210	U	200	U	200	U	200	U	210	U	210	U
4-Chloro-3-methylphenol	630,000	19,000,000	210	U	210	U	200	U	200	U	200	U	210	U	210	U
4-Chloroaniline	2,700	95,000	400	U	400	U	390	U	390	U	390	U	400	U	150	J
4-Chlorophenyl-phenyl ether	N/A	N/A	210	U	210	U	200	U	200	U	200	U	210	U	210	U
4-Methylphenol	130,000	3,800,000	400	U	400	U	390	U	390	U	390	U	400	U	420	U
4-Nitroaniline	25,000	760,000	400	U	400	U	390	U	390	U	390	U	400	U	420	U
4-Nitrophenol	N/A	N/A	400	U	400	U	390	U	390	U	390	U	400	U	420	U
Acenaphthene	360,000	11,000,000	210	U	210	U	200	U	200	U	200	U	210	U	360	J
Acenaphthylene	N/A	N/A	210	U	210	U	56	J	130	J	99	J	210	U	240	J
Acetophenone	780,000	23,000,000	400	U	400	U	390	U	390	U	390	U	400	U	420	U
Anthracene	1,800,000	54,000,000	210	U	210	U	62	J	320	J	220	J	210	U	860	J
Atrazine	2,400	240,000	400	U	400	U	390	U	390	U	390	U	400	U	420	U
Benzaldehyde	170,000	17,000,000	400	U	400	U	390	U	390	U	390	U	400	U	420	U
Benzo(a)anthracene	1,100	110,000	150	J	79	J	320	J	1300	J	740	J	190	J	1400	J
Benzo(a)pyrene	110	11,000	150	J	70	J	310	J	1100	J	620	J	170	J	1100	J
Benzo(b)fluoranthene	1,100	110,000	220	J	100	J	460	J	1500	J	860	J	250	J	1500	J
Benzo(g,h,i)perylene	N/A	N/A	88	J	210	U	190	J	630	J	380	J	100	J	610	J
Benzo(k)fluoranthene	11,000	1,100,000	78	J	210	U	170	J	550	J	340	J	98	J	480	J
Bis(2-chloroethoxy)methane	19,000	570,000	210	U	210	U	200	U	200	U	200	U	210	U	210	U
Bis(2-chloroethoxy)ether	230	23,000	400	U	400	U	390	U	390	U	390	U	400	U	420	U
Bis(2-ethylhexyl)phthalate	39,000	3,800,000	120	J	210	U	110	J	75	J	110	J	76	J	170	J
Butylbenzylphthalate	290,000	29,000,000	210	U	210	U	200	U	200	U	200	U	210	U	210	U
Caprolactam	3,100,000	94,000,000	400	U	400	U	390	U	390	U	390	U	400	U	420	U
Carbazole	N/A	N/A	400	U	400	U	390	U	230	J	170	J	400	U	500	J
Chrysene	110,000	11,000,000	160	J	82	J	350	J	1100	J	670	J	200	J	1200	J
Dibenzo(a,h)anthracene	110	11,000	210	U	210	U	54	J	190	J	110	J	210	U	170	J
Dibenzofuran	7,800	230,000	210	U	210	U	200	U	200	U	200	U	210	U	400	J
Diethylphthalate	5,100,000	150,000,000	210	U	210	U	200	U	200	U	200	U	210	U	210	U
Dimethylphthalate	N/A	N/A	210	U	210	U	200	U	200	U	200	U	210	U	210	U
Di-n-butylphthalate	630,000	19,000,000	210	U	210	U	200	U	110	J	70	J	210	U	210	U
Di-n-octylphthalate	63,000	1,900,000	400	U	400	U	390	U	390	U	390	U	400	U	420	U
Fluoranthene	240,000	7,200,000	360	J	200	J	810	J	2400	J	1500	J	430	J	3100	J
Fluorene	240,000	7,200,000	210	U	210	U	200	U	80	J	200	U	210	U	440	J
Hexachlorobenzene	78	2,300	210	U	210	U	200	U	200	U	200	U	210	U	210	U
Hexachlorobutadiene	1,200	120,000	210	U	210	U	200	U	200	U	200	U	210	U	210	U
Hexachlorocyclo-pentadiene	180	5,300	400	U	400	U	390	U	390	U	390	U	400	U	420	U
Hexachloroethane	1,800	130,000	210	U	210	U	200	U	200	U	200	U	210	U	210	U
Indeno(1,2,3-cd)pyrene	1,100	110,000	110	J	51	J	230	J	780	J	460	J	130	J	710	J
Isophorone	570,000	38,000,000	210	U	210	U	200	U	200	U	200	U	210	U	210	U
Naphthalene	2,000	200,000	210	U	210	U	200	U	200	U	200	U	210	U	410	J
Nitrobenzene	5,100	380,000	210	U	210	U	200	U	200	U	200	U	210	U	210	U
N-Nitroso-di-n-propylamine	78	7,800	210	U	210	U	200	U	200	U	200	U	210	U	210	U
N-Nitrosodiphenylamine	110,000	11,000,000	210	U	210	U	200	U	200	U	200	U	210	U	210	U
Pentachlorophenol	1,000	100,000	400	U	400	U	390	U	390	U	390	U	400	U	420	U
Phenanthrene	N/A	N/A	150	J	130	J	390	J	1200	J	800	J	200	J	3500	J
Phenol	1,900,000	57,000,000	400	U	400	U	390	U	390	U	390	U	400	U	420	U
Pyrene	180,000	5,400,000	290	J	160	J	600	J	1800	J	1100	J	340	J	2700	J

**NOTES:**  
µg/kg = Micrograms per kilogram  
EPA = U.S. Environmental Protection Agency  
EY = Entire Yard (Composite) Sample  
GB = Grab Sample  
HQ = Hazard quotient  
RSL = Regional Screening Levels  
RML = Removal Management Levels  
N/A = Not applicable  
Q = Qualifier  
**Bolded results indicate detections**  
**Shaded results indicate exceedance of screening value with correlating shading**

**Qualifiers**  
J = The result is an estimated quantity.  
U = The analyte was not detected above the quantitation limit.  
UJ = The analyte was not detected. Additionally, the quantitation limit is may be inaccurate or imprecise.  
R = The data are unusable. The sample results are rejected due to serious deficiencies in meeting QC criteria. The analyte may or may not be present in the sample.

**Validated Analytical Results for Semivolatile Organic Compounds**  
**East Avenue Study Area**  
**October, 2024**

Semivolatile Organic Compounds		Sample Number:	EA0031-EY	EA0031-GB	EA0032-EY	EA0032-GB	EA0033-EY	EA0033-GB						
		Sampling Location:	31	31	32	32	33	33						
		Matrix:	Soil	Soil	Soil	Soil	Soil	Soil						
		Units:	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg						
		Date Sampled:	10/31/2024	10/31/2024	10/31/2024	10/31/2024	10/31/2024	10/31/2024						
Parameter	EPA RSL Residential Soil HQ = 0.1 (µg/kg)	EPA RML Residential Soil HQ = 3.0 (µg/kg)	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q		
1,1'-Biphenyl	4,700	140,000	180	U	190	U	210	U	220	U	200	U	200	U
1,2,4,5-Tetrachlorobenzene	230	7,000	180	U	190	U	210	U	220	U	200	U	200	U
1,4-Dioxane	5,300	530,000	72	R	75	R	84	R	85	R	80	R	78	R
1-Methylnaphthalene	18	550	180	U	190	U	210	U	220	U	200	U	200	U
2,2'-Oxybis(1-chloropropane)	310,000	9,400,000	360	U	370	U	410	U	420	U	390	U	380	U
2,3,4,6-Tetrachlorophenol	190,000	5,700,000	180	U	190	U	210	U	220	U	200	U	200	U
2,4,5-Trichlorophenol	630,000	19,000,000	180	U	190	U	210	U	220	U	200	U	200	U
2,4,6-Trichlorophenol	6,300	190,000	180	U	190	U	210	U	220	U	200	U	200	U
2,4-Dichlorophenol	19,000	570,000	180	U	190	U	210	U	220	U	200	U	200	U
2,4-Dimethylphenol	130,000	3,800,000	180	U	190	U	210	U	220	U	200	U	200	U
2,4-Dinitrophenol	13,000	380,000	360	UJ	370	U	410	UJ	420	U	390	UJ	380	U
2,4-Dinitrotoluene	1,700	170,000	180	U	190	U	210	U	220	U	200	U	200	U
2,6-Dinitrotoluene	360	36,000	180	U	190	U	210	U	220	U	200	U	200	U
2-Chloronaphthalene	480,000	14,000,000	180	U	190	U	210	U	220	U	200	U	200	U
2-Chlorophenol	39,000	1,200,000	180	U	190	U	210	U	220	U	200	U	200	U
2-Methylnaphthalene	24,000	720,000	180	U	190	U	210	U	220	U	200	U	200	U
2-Methylphenol	320,000	9,500,000	360	U	370	U	410	U	420	U	390	U	380	U
2-Nitroaniline	63,000	1,900,000	180	U	190	U	210	U	220	U	200	U	200	U
2-Nitrophenol	N/A	N/A	180	U	190	U	210	U	220	U	200	U	200	U
3,3'-Dichlorobenzidine	1,200	120,000	360	U	370	U	410	U	420	U	390	U	380	U
3-Nitroaniline	N/A	N/A	360	U	370	U	410	U	420	U	390	U	380	U
4,6-Dinitro-2-methylphenol	510	15,000	360	U	370	U	410	U	420	U	390	U	380	U
4-Bromophenyl-phenylether	N/A	N/A	180	U	190	U	210	U	220	U	200	U	200	U
4-Chloro-3-methylphenol	630,000	19,000,000	180	U	190	U	210	U	220	U	200	U	200	U
4-Chloroaniline	2,700	95,000	360	U	370	U	410	U	420	U	390	U	380	U
4-Chlorophenyl-phenyl ether	N/A	N/A	180	U	190	U	210	U	220	U	200	U	200	U
4-Methylphenol	130,000	3,800,000	360	U	370	U	410	U	420	U	390	U	380	U
4-Nitroaniline	25,000	760,000	360	U	370	U	410	U	420	U	390	U	380	U
4-Nitrophenol	N/A	N/A	360	U	370	U	410	U	420	U	390	U	380	U
Acenaphthene	360,000	11,000,000	180	U	190	U	210	U	220	U	200	U	200	U
Acenaphthylene	N/A	N/A	52	J	54	J	210	U	220	U	48	J	110	J
Acetophenone	780,000	23,000,000	360	U	370	U	410	U	420	U	390	U	380	U
Anthracene	1,800,000	54,000,000	62	J	58	J	210	U	220	U	43	J	75	J
Atrazine	2,400	240,000	360	U	370	U	410	U	420	U	390	U	380	U
Benzaldehyde	170,000	17,000,000	360	U	370	U	410	U	420	U	390	U	380	U
Benzo(a)anthracene	1,100	110,000	280	J	260	J	92	J	47	J	210	J	420	J
Benzo(a)pyrene	110	11,000	270	J	230	J	88	J	220	U	220	J	460	J
Benzo(b)fluoranthene	1,100	110,000	380	J	350	J	140	J	66	J	310	J	710	J
Benzo(g,h,i)perylene	N/A	N/A	150	J	140	J	58	J	220	U	140	J	310	J
Benzo(k)fluoranthene	11,000	1,100,000	140	J	120	J	46	J	220	U	110	J	190	J
Bis(2-chloroethoxy)methane	19,000	570,000	180	U	190	U	210	U	220	U	200	U	200	U
Bis(2-chloroethyl)ether	230	23,000	190	J	370	U	410	U	420	U	390	U	380	U
Bis(2-ethylhexyl)phthalate	39,000	3,800,000	110	J	69	J	110	J	220	U	110	J	200	U
Butylbenzylphthalate	290,000	29,000,000	180	U	190	U	210	U	220	U	200	U	200	U
Caprolactam	3,100,000	94,000,000	360	U	370	U	410	U	420	U	390	U	380	U
Carbazole	N/A	N/A	360	U	370	U	410	U	420	U	390	U	380	U
Chrysene	110,000	11,000,000	290	J	260	J	96	J	220	U	220	J	420	J
Dibenzo(a,h)anthracene	110	11,000	44	J	41	J	210	U	220	U	200	U	100	J
Dibenzofuran	7,800	230,000	180	U	190	U	210	U	220	U	200	U	200	U
Diethylphthalate	5,100,000	150,000,000	180	U	190	U	210	U	220	U	200	U	200	U
Dimethylphthalate	N/A	N/A	180	U	190	U	210	U	220	U	200	U	200	U
Di-n-butylphthalate	630,000	19,000,000	180	U	190	U	210	U	220	U	200	U	200	U
Di-n-octylphthalate	63,000	1,900,000	360	U	370	U	410	U	420	U	390	U	380	U
Fluoranthene	240,000	7,200,000	690	J	630	J	200	J	99	J	450	J	790	J
Fluorene	240,000	7,200,000	180	U	190	U	210	U	220	U	200	U	200	U
Hexachlorobenzene	78	2,300	180	U	190	U	210	U	220	U	200	U	200	U
Hexachlorobutadiene	1,200	120,000	180	U	190	U	210	U	220	U	200	U	200	U
Hexachlorocyclo-pentadiene	180	5,300	360	U	370	U	410	U	420	U	390	U	380	U
Hexachloroethane	1,800	130,000	180	U	190	U	210	U	220	U	200	U	200	U
Indeno(1,2,3-cd)pyrene	1,100	110,000	190	J	170	J	67	J	220	U	170	J	380	J
Isophorone	570,000	38,000,000	180	U	190	U	210	U	220	U	200	U	200	U
Naphthalene	2,000	200,000	180	U	190	U	210	U	220	U	200	U	200	U
Nitrobenzene	5,100	380,000	180	U	190	U	210	U	220	U	200	U	200	U
N-Nitroso-di-n-propylamine	78	7,800	180	U	190	U	210	U	220	U	200	U	200	U
N-Nitrosodiphenylamine	110,000	11,000,000	180	U	190	U	210	U	220	U	200	U	200	U
Pentachlorophenol	1,000	100,000	360	U	370	U	410	U	420	U	390	U	380	U
Phenanthrene	N/A	N/A	340	J	320	J	79	J	220	U	200	J	290	J
Phenol	1,900,000	57,000,000	360	U	370	U	410	U	420	U	390	U	380	U
Pyrene	180,000	5,400,000	510	J	470	J	160	J	83	J	360	J	630	J

**NOTES:**  
µg/kg = Micrograms per kilogram  
EPA = U.S. Environmental Protection Agency  
EY = Entire Yard (Composite) Sample  
GB = Grab Sample  
HQ = Hazard quotient  
RSL = Regional Screening Levels  
RML = Removal Management Levels  
N/A = Not applicable  
Q = Qualifier

**Bolded results indicate detections**  
**Shaded results indicate exceedance of screening value with correlating shading**

**Qualifiers**  
J = The result is an estimated quantity.  
U = The analyte was not detected above the quantitation limit.  
UJ = The analyte was not detected. Additionally, the quantitation limit is may be inaccurate or imprecise.  
R = The data are unusable. The sample results are rejected due to serious deficiencies in meeting QC criteria. The analyte may or may not be present in the sample.

**Validated Analytical Results for Semivolatile Organic Compounds**  
**East Avenue Study Area**  
**October, 2024**

Semivolatile Organic Compounds		Sample Number:	EA0034-EY	EA0034-EY-DUP	EA0034-GB	EA0035-EY	EA0035-GB			
		Sampling Location:	34	34	34	35	35			
		Matrix:	Soil	Soil	Soil	Soil	Soil			
		Units:	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg			
		Date Sampled:	10/31/2024	10/31/2024	10/31/2024	10/31/2024	10/31/2024			
Parameter	EPA RSL Residential Soil HQ = 0.1 (µg/kg)	EPA RML Residential Soil HQ = 3.0 (µg/kg)	Result	Q	Result	Q	Result	Q	Result	Q
1,1'-Biphenyl	4,700	140,000	190	U	190	U	180	U	200	U
1,2,4,5-Tetrachlorobenzene	230	7,000	190	U	190	U	180	U	200	U
1,4-Dioxane	5,300	530,000	77	R	77	R	72	R	81	R
1-Methylnaphthalene	18	550	190	U	190	U	180	U	200	U
2,2'-Oxybis(1-chloropropane)	310,000	9,400,000	380	U	380	U	360	U	400	U
2,3,4,6-Tetrachlorophenol	190,000	5,700,000	190	U	190	U	180	U	200	U
2,4,5-Trichlorophenol	630,000	19,000,000	190	U	190	U	180	U	200	U
2,4,6-Trichlorophenol	6,300	190,000	190	U	190	U	180	U	200	U
2,4-Dichlorophenol	19,000	570,000	190	U	190	U	180	U	200	U
2,4-Dimethylphenol	130,000	3,800,000	190	U	190	U	180	U	200	U
2,4-Dinitrophenol	13,000	380,000	380	UJ	380	U	360	U	400	UJ
2,4-Dinitrotoluene	1,700	170,000	190	U	190	U	180	U	200	U
2,6-Dinitrotoluene	360	36,000	190	U	190	U	180	U	200	U
2-Chloronaphthalene	480,000	14,000,000	190	U	190	U	180	U	200	U
2-Chlorophenol	39,000	1,200,000	190	U	190	U	180	U	200	U
2-Methylnaphthalene	24,000	720,000	190	U	190	U	180	U	200	U
2-Methylphenol	320,000	9,500,000	380	U	380	U	360	U	400	U
2-Nitroaniline	63,000	1,900,000	190	U	190	U	180	U	200	U
2-Nitrophenol	N/A	N/A	190	U	190	U	180	U	200	U
3,3'-Dichlorobenzidine	1,200	120,000	380	U	380	U	360	U	400	U
3-Nitroaniline	N/A	N/A	380	U	380	U	360	U	400	U
4,6-Dinitro-2-methylphenol	510	15,000	380	U	380	U	360	U	400	U
4-Bromophenyl-phenylether	N/A	N/A	190	U	190	U	180	U	200	U
4-Chloro-3-methylphenol	630,000	19,000,000	190	U	190	U	180	U	200	U
4-Chloroaniline	2,700	95,000	380	U	380	U	360	U	400	U
4-Chlorophenyl-phenyl ether	N/A	N/A	190	U	190	U	180	U	200	U
4-Methylphenol	130,000	3,800,000	380	U	380	U	360	U	400	U
4-Nitroaniline	25,000	760,000	380	U	380	U	360	U	400	U
4-Nitrophenol	N/A	N/A	380	U	380	U	360	U	400	U
Acenaphthene	360,000	11,000,000	190	U	190	U	180	U	200	U
Acenaphthylene	N/A	N/A	45	J	190	U	180	U	200	U
Acetophenone	780,000	23,000,000	380	U	380	U	360	U	400	U
Anthracene	1,800,000	54,000,000	190	U	190	U	180	U	200	U
Atrazine	2,400	240,000	380	U	380	U	360	U	400	U
Benzaldehyde	170,000	17,000,000	380	U	380	U	360	U	400	U
Benzo(a)anthracene	1,100	110,000	170	J	200	J	68	J	160	J
Benzo(a)pyrene	110	11,000	160	J	190	J	64	J	160	J
Benzo(b)fluoranthene	1,100	110,000	270	J	300	J	100	J	250	J
Benzo(g,h,i)perylene	N/A	N/A	97	J	120	J	180	U	97	J
Benzo(k)fluoranthene	11,000	1,100,000	87	J	110	J	180	U	80	J
Bis(2-chloroethoxy)methane	19,000	570,000	190	U	190	U	180	U	200	U
Bis(2-chloroethyl)ether	230	23,000	380	U	380	U	360	U	400	U
Bis(2-ethylhexyl)phthalate	39,000	3,800,000	160	J	200	J	180	U	51	J
Butylbenzylphthalate	290,000	29,000,000	190	U	190	U	180	U	200	U
Caprolactam	3,100,000	94,000,000	380	U	380	U	360	U	400	U
Carbazole	N/A	N/A	380	U	380	U	360	U	400	U
Chrysene	110,000	11,000,000	190	U	220	J	73	J	190	J
Dibenzo(a,h)anthracene	110	11,000	190	U	190	U	180	U	200	U
Dibenzofuran	7,800	230,000	190	U	190	U	180	U	200	U
Diethylphthalate	5,100,000	150,000,000	190	U	190	U	180	U	200	U
Dimethylphthalate	N/A	N/A	190	U	190	U	180	U	200	U
Di-n-butylphthalate	630,000	19,000,000	190	U	190	U	180	U	200	U
Di-n-octylphthalate	63,000	1,900,000	380	U	380	U	360	U	400	U
Fluoranthene	240,000	7,200,000	380	U	460	J	130	J	380	J
Fluorene	240,000	7,200,000	190	U	190	U	180	U	200	U
Hexachlorobenzene	78	2,300	190	U	190	U	180	U	200	U
Hexachlorobutadiene	1,200	120,000	190	U	190	U	180	U	200	U
Hexachlorocyclo-pentadiene	180	5,300	380	U	380	U	360	U	400	U
Hexachloroethane	1,800	130,000	190	U	190	UJ	180	U	200	U
Indeno(1,2,3-cd)pyrene	1,100	110,000	120	J	150	J	50	J	120	J
Isophorone	570,000	38,000,000	190	U	190	U	180	U	200	U
Naphthalene	2,000	200,000	190	U	190	U	180	U	200	U
Nitrobenzene	5,100	380,000	190	U	190	U	180	U	200	U
N-Nitroso-di-n propylamine	78	7,800	190	U	190	U	180	U	200	U
N-Nitrosodiphenylamine	110,000	11,000,000	190	U	190	U	180	U	200	U
Pentachlorophenol	1,000	100,000	380	U	380	U	360	U	400	U
Phenanthrene	N/A	N/A	150	J	180	J	57	J	150	J
Phenol	1,900,000	57,000,000	380	U	380	U	360	U	400	U
Pyrene	180,000	5,400,000	310	J	360	J	120	J	300	J

**NOTES:**  
µg/kg = Micrograms per kilogram  
EPA = U.S. Environmental Protection Agency  
EY = Entire Yard (Composite) Sample  
GB = Grab Sample  
HQ = Hazard quotient  
RSL = Regional Screening Levels  
RML = Removal Management Levels  
N/A = Not applicable  
Q = Qualifier  
**Bolded results indicate detections**  
**Shaded results indicate exceedance of screening value with correlating shading**

**Qualifiers**  
J = The result is an estimated quantity.  
U = The analyte was not detected above the quantitation limit.  
UJ = The analyte was not detected. Additionally, the quantitation limit is may be inaccurate or imprecise.  
R = The data are unusable. The sample results are rejected due to serious deficiencies in meeting QC criteria. The analyte may or may not be present in the sample.

**Validated Analytical Results for Semivolatile Organic Compounds**  
**East Avenue Study Area**  
**October, 2024**

Semivolatile Organic Compounds			Sample Number:		EA0036-EY	EA0036-GB	EA0037-EY	EA0037-GB		
			Sampling Location:		36	36	37	37		
			Matrix:		Soil	Soil	Soil	Soil		
			Units:		µg/kg	µg/kg	µg/kg	µg/kg		
			Date Sampled:		10/31/2024	10/31/2024	10/31/2024	10/31/2024		
Parameter	EPA RSL Residential Soil HQ = 0.1 (µg/kg)	EPA RML Residential Soil HQ = 3.0 (µg/kg)	Result	Q	Result	Q	Result	Q	Result	Q
1,1'-Biphenyl	4,700	140,000	190	U	200	U	200	U	190	U
1,2,4,5-Tetrachlorobenzene	230	7,000	190	U	200	U	200	U	190	U
1,4-Dioxane	5,300	530,000	76	R	78	R	81	R	76	R
1-Methylnaphthalene	18	550	190	U	200	U	200	U	190	U
2,2'-Oxybis(1-chloropropane)	310,000	9,400,000	380	U	380	U	400	U	370	U
2,3,4,6-Tetrachlorophenol	190,000	5,700,000	190	U	200	U	200	U	190	U
2,4,5-Trichlorophenol	630,000	19,000,000	190	U	200	U	200	U	190	U
2,4,6-Trichlorophenol	6,300	190,000	190	U	200	U	200	U	190	U
2,4-Dichlorophenol	19,000	570,000	190	U	200	U	200	U	190	U
2,4-Dimethylphenol	130,000	3,800,000	190	U	200	U	200	U	190	U
2,4-Dinitrophenol	13,000	380,000	380	UJ	380	U	400	U	370	U
2,4-Dinitrotoluene	1,700	170,000	190	U	200	U	200	U	190	U
2,6-Dinitrotoluene	360	36,000	190	U	200	U	200	U	190	U
2-Chloronaphthalene	480,000	14,000,000	190	U	200	U	200	U	190	U
2-Chlorophenol	39,000	1,200,000	190	U	200	U	200	U	190	U
2-Methylnaphthalene	24,000	720,000	190	U	200	U	200	U	190	U
2-Methylphenol	320,000	9,500,000	380	U	380	U	400	U	370	U
2-Nitroaniline	63,000	1,900,000	190	U	200	U	200	U	190	U
2-Nitrophenol	N/A	N/A	190	U	200	U	200	U	190	U
3,3'-Dichlorobenzidine	1,200	120,000	380	U	380	U	400	U	370	U
3-Nitroaniline	N/A	N/A	380	U	380	U	400	U	370	U
4,6-Dinitro-2-methylphenol	510	15,000	380	U	380	U	400	U	370	U
4-Bromophenyl-phenylether	N/A	N/A	190	U	200	U	200	U	190	U
4-Chloro-3-methylphenol	630,000	19,000,000	190	U	200	U	200	U	190	U
4-Chloroaniline	2,700	95,000	380	U	380	U	400	U	370	U
4-Chlorophenyl-phenyl ether	N/A	N/A	190	U	200	U	200	U	190	U
4-Methylphenol	130,000	3,800,000	380	U	380	U	400	U	370	U
4-Nitroaniline	25,000	760,000	380	U	380	U	400	U	370	U
4-Nitrophenol	N/A	N/A	380	U	380	U	400	U	370	U
Acenaphthene	360,000	11,000,000	190	U	200	U	200	U	190	U
Acenaphthylene	N/A	N/A	190	U	200	U	44	J	82	J
Acetophenone	780,000	23,000,000	380	U	380	U	400	U	370	U
Anthracene	1,800,000	54,000,000	190	U	200	U	60	J	76	J
Atrazine	2,400	240,000	380	U	380	U	400	U	370	U
Benzaldehyde	170,000	17,000,000	380	U	380	U	400	U	370	U
Benzo(a)anthracene	1,100	110,000	150	J	200	U	290	J	360	J
Benzo(a)pyrene	110	11,000	150	J	200	U	280	J	350	J
Benzo(b)fluoranthene	1,100	110,000	230	J	58	J	380	J	530	J
Benzo(g,h,i)perylene	N/A	N/A	95	J	200	U	170	J	230	J
Benzo(k)fluoranthene	11,000	1,100,000	81	J	200	U	140	J	190	J
Bis(2-chloroethoxy)methane	19,000	570,000	190	U	200	U	200	U	190	U
Bis(2-chloroethyl)ether	230	23,000	380	U	380	U	400	U	370	U
Bis(2-ethylhexyl)phthalate	39,000	3,800,000	86	J	200	U	60	J	50	J
Butylbenzylphthalate	290,000	29,000,000	190	U	200	U	200	U	190	U
Caprolactam	3,100,000	94,000,000	380	U	380	U	400	U	370	U
Carbazole	N/A	N/A	380	U	380	U	400	U	66	J
Chrysene	110,000	11,000,000	170	J	200	U	290	J	390	J
Dibenzo(a,h)anthracene	110	11,000	190	U	200	U	42	J	60	J
Dibenzofuran	7,800	230,000	190	U	200	U	200	U	190	U
Diethylphthalate	5,100,000	150,000,000	190	U	200	U	200	U	190	U
Dimethylphthalate	N/A	N/A	190	U	200	U	200	U	190	U
Di-n-butylphthalate	630,000	19,000,000	190	U	200	U	200	U	190	U
Di-n-octylphthalate	63,000	1,900,000	380	U	380	U	400	U	370	U
Fluoranthene	240,000	7,200,000	370	J	91	J	660	J	920	J
Fluorene	240,000	7,200,000	190	U	200	U	200	U	190	U
Hexachlorobenzene	78	2,300	190	U	200	U	200	U	190	U
Hexachlorobutadiene	1,200	120,000	190	U	200	U	200	U	190	U
Hexachlorocyclo-pentadiene	180	5,300	380	U	380	U	400	U	370	U
Hexachloroethane	1,800	130,000	190	U	200	U	200	UJ	190	U
Indeno(1,2,3-cd)pyrene	1,100	110,000	110	J	200	U	200	J	280	J
Isophorone	570,000	38,000,000	190	U	200	U	200	U	190	U
Naphthalene	2,000	200,000	190	U	200	U	200	U	190	U
Nitrobenzene	5,100	380,000	190	U	200	U	200	U	190	U
N-Nitroso-di-n-propylamine	78	7,800	190	U	200	U	200	U	190	U
N-Nitrosodiphenylamine	110,000	11,000,000	190	U	200	U	200	U	190	U
Pentachlorophenol	1,000	100,000	380	U	380	U	400	U	370	U
Phenanthrene	N/A	N/A	170	J	200	U	310	J	550	J
Phenol	1,900,000	57,000,000	380	U	380	U	400	U	370	U
Pyrene	180,000	5,400,000	280	J	74	J	510	J	710	J

**NOTES:**

µg/kg = Micrograms per kilogram  
EPA = U.S. Environmental Protection Agency  
EY = Entire Yard (Composite) Sample  
GB = Grab Sample  
HQ = Hazard quotient  
RSL = Regional Screening Levels  
RML = Removal Management Levels  
N/A = Not applicable  
Q = Qualifier

**Bolded results indicate detections**  
**Shaded results indicate exceedance of screening value with correlating shading**

**Qualifiers**

J = The result is an estimated quantity.  
U = The analyte was not detected above the quantitation limit.  
UJ = The analyte was not detected. Additionally, the quantitation limit is may be inaccurate or imprecise.  
R = The data are unusable. The sample results are rejected due to serious deficiencies in meeting QC criteria. The analyte may or may not be present in the sample.