

**35TH AVENUE - FIVE MILE CREEK
WARWICK PROPERTY
EPA SEDIMENT SAMPLING RESULTS - APRIL 2012**

Sample ID	EPAFMC-SD-01	EPAFMC-SD-02	EPAFMC-SD-03	EPAFMC-SD-04
Lat/Long	33.5892145708, -86.7988003786	33.5895040282, -86.7984396375	33.5895740632, -86.797923394	33.5896857361, -86.7972618619
Property	Warwick	Warwick	Warwick	Warwick
Location ID	EPAFMC01	EPAFMC02	EPAFMC03	EPAFMC04
Sample Date	4/23/2012	4/23/2012	4/23/2012	4/23/2012
Matrix	Sediment	Sediment	Sediment	Sediment
Sample Type	Field Sample	Field Sample	Field Sample	Field Sample
Wet Chemistry (mg/kg)				
TOC - 9060Mod	267000	26300	45400	184000
Metals, Total 6010B/7471A (mg/kg)				
Aluminum	5740 J	5920	4400	9290
Antimony	1.23 U	1.19 U	1.14 U	1.35 U
Arsenic	10.1	14.1	8.44	11.9
Barium	48.2	86.8	48.8	80.1
Beryllium	0.503 J	0.711	0.455 J	0.642 J
Cadmium	0.0613 U	0.0593 U	0.0572 U	0.0674 U
Calcium	14300	18800	14000	14500
Chromium	32.6 J	37.7	28.8	26.9
Cobalt	7.08	8.12	5.27	14.4
Copper	14	18.1	7.72	26.2
Iron	21900 J	22600	17600	33100
Lead	18.8	32.4	18.7	29.1
Magnesium	3590	5130	4150	6040
Manganese	633	1580	605	838
Nickel	9.16	14.3	7.81	18.4
Potassium	466	562	352	868
Selenium	0.491 U	0.475 U	0.458 U	0.539 U
Silver	0.196 U	0.19 U	0.183 U	0.216 U
Sodium	98	104	98.7	59
Thallium	0.417 U	0.404 U	0.521 J	0.588 J
Vanadium	28.5	27.3	24.6	40.7
Zinc	147 J	180	148	162
Mercury	0.067	0.0564	0.042	0.0747
PCB - 8082 (ug/kg)				
Aroclor-1016	NA	16 U	NA	21 U
Aroclor-1221	NA	15 U	NA	19 U
Aroclor-1232	NA	25 U	NA	32 U
Aroclor-1242	NA	14 U	NA	18 U
Aroclor-1248	NA	14 U	NA	18 U
Aroclor-1254	NA	12 U	NA	15 U
Aroclor-1260	NA	8.7 U	NA	11 U

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Sample Date	4/23/2012	4/23/2012	4/23/2012	4/23/2012
Matrix	Sediment	Sediment	Sediment	Sediment
Sample Type	Field Sample	Field Sample	Field Sample	Field Sample
SVOC - 8270D (ug/kg)				
Bis(2-chloroethyl)ether	839 U	328 U	144 U	85.7 U
Phenol	814 U	318 U	140 U	83.1 U
2-Chlorophenol	864 U	338 U	148 U	88.2 U
2,2'-Oxybis(1-chloropropane)	2750 U	1080 U	473 U	281 U
2-Methylphenol	1200 U	470 U	206 U	123 U
Hexachloroethane	626 U	245 U	108 U	63.9 U
N-Nitroso-di-n-propylamine	764 U	299 U	131 U	78 U
4-Methylphenol	739 U	289 U	127 U	75.4 U
Nitrobenzene	751 U	294 U	129 U	76.7 U
Isophorone	739 U	289 U	127 U	75.4 U
2-Nitrophenol	902 U	353 U	155 U	92 U
2,4-Dimethylphenol	714 UJ	279 U	123 U	72.9 U
Bis(2-chloroethoxy)methane	714 U	279 U	123 U	72.9 U
2,4-Dichlorophenol	939 U	367 U	161 U	95.9 U
Naphthalene	801 UJ	2350	301 J	95.3 J
4-Chloroaniline	789 U	308 U	136 U	80.6 U
2-Methylnaphthalene	726 UJ	1720	125 U	74.2 U
Hexachlorobutadiene	726 U	284 U	125 U	74.2 U
4-Chloro-3-methylphenol	701 U	274 U	120 U	71.6 U
Hexachlorocyclopentadiene	501 U	196 U	86.1 U	51.1 U
2,4,6-Trichlorophenol	851 U	333 U	146 U	86.9 U
2,4,5-Trichlorophenol	927 U	362 U	159 U	94.6 U
2-Chloronaphthalene	835 U	327 U	144 U	85.3 U
2-Nitroaniline	714 U	279 U	123 U	72.9 U
Acenaphthylene	944 J	2810	671	161 J
Dimethylphthalate	739 U	289 U	127 U	75.4 U
2,6-Dinitrotoluene	626 U	245 U	108 U	63.9 U
Acenaphthene	928 J	8020	185 J	62.6 U
3-Nitroaniline	1000 U	392 U	172 U	102 U
2,4-Dinitrophenol	2750 UJ	1080 U	473 U	281 U
Dibenzofuran	676 UJ	4920	128 J	69 U
2,4-Dinitrotoluene	614 U	240 U	105 U	62.6 U
4-Nitrophenol	664 U	260 U	114 U	67.8 U
Fluorene	1230 J	11800	352 J	107 J
4-Chlorophenyl-phenylether	639 U	250 U	110 U	65.2 U
Diethylphthalate	639 U	250 U	110 U	65.2 U
4-Nitroaniline	1100 U	431 U	189 U	112 U
4,6-Dinitro-2-methylphenol	3330 UJ	1300 U	572 U	340 U
N-Nitrosodiphenylamine	789 U	308 U	136 U	80.6 U
4-Bromophenyl-phenylether	614 U	240 U	105 U	62.6 U
Hexachlorobenzene	664 U	260 U	114 U	67.8 U
Pentachlorophenol	1660 U	651 U	286 U	170 U
Phenanthrene	6590 J	40900	1930	1240

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Sample Date	4/23/2012	4/23/2012	4/23/2012	4/23/2012
Matrix	Sediment	Sediment	Sediment	Sediment
Sample Type	Field Sample	Field Sample	Field Sample	Field Sample
Anthracene	2860 J	28200	1360	328 J
Di-n-butylphthalate	551 U	216 U	94.7 U	56.2 U
Fluoranthene	13700 J	44700	7610	2370
Pyrene	10600 J	32800	5660	1920
Butylbenzylphthalate	789 U	308 U	136 U	80.6 U
3,3'-Dichlorobenzidine	739 U	289 U	127 U	75.4 U
Benzo(a)anthracene	7390 J	19600	4580	986
Chrysene	7300 J	20300	4620	1000
Bis(2-ethylhexyl)phthalate	1040 UJ	406 U	179 U	106 U
Di-n-octylphthalate	726 UJ	284 U	125 U	74.2 U
Benzo(b)fluoranthene	7130 J	22500	4860	1130
Benzo(k)fluoranthene	3050 J	9520	2450	478
Benzo(a)pyrene	4520 J	14500	3370	759
Indeno(1,2,3-cd)pyrene	2070 J	4940	1310	386
Dibenzo(a,h)anthracene	818 J	2300	557 J	120 J
Benzo(g,h,i)perylene	2220 J	5060	1300	467
Acetophenone	1250 U	490 U	215 U	128 U
1,2,4,5-Tetrachlorobenzene	588 U	230 U	101 U	60.1 U
Carbazole	676 UJ	6390	239 J	69 U
Caprolactam	1750 U	686 U	301 U	179 U
1,1'-Biphenyl	764 UJ	645 J	131 U	78 U
Atrazine	989 U	387 U	170 U	101 U
Benzaldehyde	563 U	220 U	96.8 U	57.5 U
PAH - 8270D SIM (ug/kg)				
1-Methylnaphthalene	124	129	43.2	22.8
2-Methylnaphthalene	422	378	111	45
Acenaphthene	9140	1370	999	33.9
Acenaphthylene	13200	2030	1020	53.6
Anthracene	21200	6510	4550	150
Benzo(a)anthracene	16000	15800	7290	443
Benzo(a)pyrene	10300	10800	5040	378
Benzo(b)fluoranthene	12700	14900	6910	561
Benzo(g,h,i)perylene	6920	4970	2250	218
Benzo(k)fluoranthene	4680	15800	2250	163
Chrysene	15900	13300	5990	449
Dibenzo(a,h)anthracene	2230	1920	530	81.2
Fluoranthene	26800	28300	12200	827
Fluorene	5600	2060	1390	40.6
Indeno(1,2,3-cd)pyrene	4630	4970	2260	198
Naphthalene	1260	2490	274	121
Phenanthrene	20400	11900	6320	256
Pyrene	17600	18700	7850	504

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Sample ID	EPAFMC-SD-05	EPAFMC-SD-06	EPAFMC-SD-07
Lat/Long	33.5891248333, -86.7961739611	33.5891248333, -86.7961739611	33.5848446533, -86.7884741968
Property	Warwick	Warwick	Warwick
Location ID	EPAFMC05	EPAFMC05	EPAFMC06
Sample Date	4/23/2012	4/23/2012	4/24/2012
Matrix	Sediment	Sediment	Sediment
Sample Type	Field Sample	Field Duplicate	Field Sample
Wet Chemistry (mg/kg)			
TOC - 9060Mod	409000	509000	9740
Metals, Total 6010B/7471A (mg/kg)			
Aluminum	3770	2700	5010
Antimony	1 J	1.21 J	0.66 J
Arsenic	6.59	10.5	18.1
Barium	107	73.2	37.2
Beryllium	0.296 J	0.256 J	0.441 U
Cadmium	1.67	2.16	8.64 J
Calcium	9780	9890	15600
Chromium	17.6	19.7	63.3 J
Cobalt	4.03 J	4.18 J	6.5
Copper	52.3	62.5	9.28
Iron	13300	14800	34600
Lead	129	135	21.7
Magnesium	2130	2240	5340 J
Manganese	225	350	422
Nickel	11.3	9.35	9.53
Potassium	315	271	298
Selenium	0.361 U	0.45 U	0.353 UJ
Silver	0.258 J	0.18 U	0.141 U
Sodium	61.3	61.5	67.4
Thallium	0.307 U	0.486 J	0.531 J
Vanadium	9.2	10.7	58.8 J
Zinc	392	427	142 J
Mercury	0.442	0.327	0.0156 J
PCB - 8082 (ug/kg)			
Aroclor-1016	NA	NA	NA
Aroclor-1221	NA	NA	NA
Aroclor-1232	NA	NA	NA
Aroclor-1242	NA	NA	NA
Aroclor-1248	NA	NA	NA
Aroclor-1254	NA	NA	NA
Aroclor-1260	NA	NA	NA

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Location ID	EPAFMC05	EPAFMC05	EPAFMC06
Sample Date	4/23/2012	4/23/2012	4/24/2012
Matrix	Sediment	Sediment	Sediment
Sample Type	Field Sample	Field Duplicate	Field Sample
SVOC - 8270D (ug/kg)			
Bis(2-chloroethyl)ether	47100 U	54100 U	70.8 U
Phenol	45700 U	52500 U	68.6 U
2-Chlorophenol	48500 U	55700 U	72.9 U
2,2'-Oxybis(1-chloropropane)	155000 U	178000 U	232 U
2-Methylphenol	67500 U	77500 U	101 U
Hexachloroethane	35100 U	40400 U	52.8 U
N-Nitroso-di-n-propylamine	42900 U	49300 U	64.4 U
4-Methylphenol	41500 U	47600 U	88.1 J
Nitrobenzene	42200 U	48400 U	63.4 U
Isophorone	41500 U	47600 U	62.3 U
2-Nitrophenol	50600 U	58100 U	76 U
2,4-Dimethylphenol	40100 U	46000 U	60.2 U
Bis(2-chloroethoxy)methane	40100 U	46000 U	60.2 U
2,4-Dichlorophenol	52700 U	60600 U	79.2 U
Naphthalene	11900000	11700000	67.6 U
4-Chloroaniline	44300 U	50900 U	66.5 U
2-Methylnaphthalene	2180000	2040000	61.2 U
Hexachlorobutadiene	40800 U	46800 U	61.2 U
4-Chloro-3-methylphenol	39400 U	45200 U	59.1 U
Hexachlorocyclopentadiene	28100 U	32300 U	42.2 UJ
2,4,6-Trichlorophenol	47800 U	54900 U	71.8 U
2,4,5-Trichlorophenol	52000 U	59800 U	78.2 U
2-Chloronaphthalene	46900 U	53900 U	70.4 U
2-Nitroaniline	40100 U	46000 U	60.2 U
Acenaphthylene	309000	364000	58.1 U
Dimethylphthalate	41500 U	47600 U	62.3 U
2,6-Dinitrotoluene	35100 U	40400 U	52.8 U
Acenaphthene	2320000	2480000	51.8 U
3-Nitroaniline	56200 U	64600 U	84.5 U
2,4-Dinitrophenol	155000 U	178000 U	232 UJ
Dibenzofuran	1610000	1630000	57 U
2,4-Dinitrotoluene	34400 U	39600 U	51.8 U
4-Nitrophenol	37200 U	42800 U	56 U
Fluorene	2610000	2690000	53.9 U
4-Chlorophenyl-phenylether	35800 U	41200 U	53.9 U
Diethylphthalate	35800 U	41200 U	53.9 U
4-Nitroaniline	61800 U	71100 U	92.9 U
4,6-Dinitro-2-methylphenol	187000 U	215000 U	281 UJ
N-Nitrosodiphenylamine	44300 U	50900 U	66.5 U
4-Bromophenyl-phenylether	34400 U	39600 U	51.8 U
Hexachlorobenzene	37200 U	42800 U	56 U
Pentachlorophenol	93500 U	107000 U	140 U
Phenanthrene	10200000	11600000	230 J

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Sample Date	4/23/2012	4/23/2012	4/24/2012
Matrix	Sediment	Sediment	Sediment
Sample Type	Field Sample	Field Duplicate	Field Sample
Anthracene	5220000	3200000	75.6 J
Di-n-butylphthalate	30900 U	35500 U	46.5 U
Fluoranthene	6260000	7300000	785
Pyrene	2700000	3030000	667
Butylbenzylphthalate	44300 U	50900 U	66.5 U
3,3'-Dichlorobenzidine	41500 U	47600 U	62.3 U
Benzo(a)anthracene	1740000	1950000	449
Chrysene	1920000	1970000	489
Bis(2-ethylhexyl)phthalate	58300 U	67000 U	87.7 U
Di-n-octylphthalate	40800 U	46800 U	61.2 U
Benzo(b)fluoranthene	1470000	1800000	526
Benzo(k)fluoranthene	777000	794000	421
Benzo(a)pyrene	1050000	1230000	400
Indeno(1,2,3-cd)pyrene	367000	410000	204 J
Dibenzo(a,h)anthracene	168000 J	189000 J	71.8 J
Benzo(g,h,i)perylene	369000	418000	232 J
Acetophenone	70300 U	80800 U	106 U
1,2,4,5-Tetrachlorobenzene	33000 U	38000 U	49.6 U
Carbazole	1640000	1370000	57 U
Caprolactam	98400 U	113000 U	148 U
1,1'-Biphenyl	317000	330000	64.4 U
Atrazine	55500 U	63800 U	83.4 U
Benzaldehyde	31600 U	36300 U	47.5 U
PAH - 8270D SIM (ug/kg)			
1-Methylnaphthalene	880000	1310000	8
2-Methylnaphthalene	1760000	2440000	21
Acenaphthene	2010000	2760000	9
Acenaphthylene	352000	1020000	26
Anthracene	4930000	5790000	53.2
Benzo(a)anthracene	1840000	2450000	186
Benzo(a)pyrene	1170000	1590000	153
Benzo(b)fluoranthene	1330000	1780000	213
Benzo(g,h,i)perylene	366000	519000	90.9
Benzo(k)fluoranthene	612000 J	874000 J	89.3
Chrysene	1900000	2580000	185
Dibenzo(a,h)anthracene	186000	257000	29.2
Fluoranthene	3970000	5590000	318
Fluorene	2450000	3240000	23.6
Indeno(1,2,3-cd)pyrene	381000	526000	81
Naphthalene	6750000	8960000	58.4
Phenanthrene	6190000	8820000	124
Pyrene	2330000	3260000	236

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Notes:

- Bold** - Analyte was detected above the sample quantitation limit
- J - Value is estimated
- mg/kg - Milligrams per kilogram
- NA - Not analyzed
- PAH - Polycyclic Aromatic Hydrocarbon compounds
- PCB - Polychlorinated Biphenyl
- SVOC - Semivolatile Organic Compounds
- TOC - Total Organic Carbon
- U - Analyte was not detected above the associated value
- ug/kg - Micrograms per kilogram