

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

| | | | | |
|--|---------------------------------|----------------------------------|----------------------------------|----------------------------------|
| Sample ID | EPAFMC-SD-08 | EPAFMC-SD-09 | EPAFMC-SD-10 | EPAFMC-SD-11 |
| Lat/Long | 33.584813957, -86.7877832913 | 33.5852564051, -86.7873597517 | 33.5857178053, -86.7870111407 | 33.5868523067, -86.7862588565 |
| Property | ABC Coke | ABC Coke | ABC Coke | ABC Coke |
| Location ID | EPAFMC07 | EPAFMC08 | EPAFMC09 | EPAFMC10 |
| Sample Date | 4/24/2012 | 4/24/2012 | 4/24/2012 | 4/24/2012 |
| Matrix | Sediment | Sediment | Sediment | Sediment |
| Sample Type | Field Sample | Field Sample | Field Sample | Field Sample |
| Wet Chemistry (mg/kg) | | | | |
| TOC - 9060Mod | 1220 | 2430 | 6000 | 7320 |
| Metals, Total 6010B/7471A (mg/kg) | | | | |
| Aluminum | 5600 | 5060 | 8300 | 4910 |
| Antimony | 0.204 J | 0.636 J | 1.24 | 0.345 J |
| Arsenic | 16.1 | 23.8 | 26.7 | 13.2 |
| Barium | 57.1 | 50.3 | 102 | 45.5 |
| Beryllium | 0.577 | 0.437 | 1.25 | 0.577 |
| Cadmium | 0.041 U | 0.0412 U | 0.0398 U | 0.049 U |
| Calcium | 17400 | 17400 | 25200 | 21400 |
| Chromium | 68.2 | 58.8 | 106 | 47.6 |
| Cobalt | 8.45 | 8.27 | 10.8 | 6.73 |
| Copper | 19.3 | 29 | 11.1 | 6.49 |
| Iron | 42400 | 43700 | 56200 | 28000 |
| Lead | 20.3 | 22.2 | 22.3 | 14.2 |
| Magnesium | 7250 | 5090 | 6610 | 6810 |
| Manganese | 659 | 512 | 1750 | 591 |
| Nickel | 10.1 | 8.52 | 9.96 | 7.28 |
| Potassium | 334 | 262 | 658 | 343 |
| Selenium | 0.328 U | 0.33 U | 0.318 U | 0.392 U |
| Silver | 0.131 U | 0.132 U | 0.127 U | 0.157 U |
| Sodium | 74.2 | 140 | 186 | 95.8 |
| Thallium | 0.707 J | 0.525 J | 0.686 J | 0.334 U |
| Vanadium | 44.6 | 55.3 | 86.3 | 44.1 |
| Zinc | 140 | 117 | 231 | 100 |
| Mercury | 0.0182 J | 0.0457 | 0.00858 J | 0.021 |
| PCB - 8082 (ug/kg) | | | | |
| Aroclor-1016 | 13 U | NA | NA | NA |
| Aroclor-1221 | 12 U | NA | NA | NA |
| Aroclor-1232 | 20 U | NA | NA | NA |
| Aroclor-1242 | 11 U | NA | NA | NA |
| Aroclor-1248 | 11 U | NA | NA | NA |
| Aroclor-1254 | 9.7 U | NA | NA | NA |
| Aroclor-1260 | 21 J | NA | NA | NA |

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| Sample ID | EPAFMC-SD-08 | EPAFMC-SD-09 | EPAFMC-SD-10 | EPAFMC-SD-11 |
|------------------------------|---------------------------------|----------------------------------|----------------------------------|----------------------------------|
| Lat/Long | 33.584813957, -86.7877832913 | 33.5852564051, -86.7873597517 | 33.5857178053, -86.7870111407 | 33.5868523067, -86.7862588565 |
| Property | ABC Coke | ABC Coke | ABC Coke | ABC Coke |
| Location ID | EPAFMC07 | EPAFMC08 | EPAFMC09 | EPAFMC10 |
| Sample Date | 4/24/2012 | 4/24/2012 | 4/24/2012 | 4/24/2012 |
| Matrix | Sediment | Sediment | Sediment | Sediment |
| Sample Type | Field Sample | Field Sample | Field Sample | Field Sample |
| SVOC - 8270D (ug/kg) | | | | |
| Bis(2-chloroethyl)ether | 54.4 U | 68.8 U | 65.1 U | 68 U |
| Phenol | 52.7 U | 66.8 U | 63.2 U | 65.9 U |
| 2-Chlorophenol | 56 U | 70.9 U | 67.1 U | 70 U |
| 2,2'-Oxybis(1-chloropropane) | 178 U | 226 U | 214 U | 223 U |
| 2-Methylphenol | 77.9 U | 98.6 U | 93.3 U | 97.4 U |
| Hexachloroethane | 40.6 U | 51.4 U | 48.6 U | 50.7 U |
| N-Nitroso-di-n-propylamine | 49.5 U | 62.6 U | 59.3 U | 61.9 U |
| 4-Methylphenol | 47.9 U | 60.6 U | 57.4 U | 59.8 U |
| Nitrobenzene | 48.7 U | 61.6 U | 58.3 U | 60.8 U |
| Isophorone | 47.9 U | 60.6 U | 57.4 U | 59.8 U |
| 2-Nitrophenol | 58.4 U | 74 U | 70 U | 73 U |
| 2,4-Dimethylphenol | 46.2 U | 58.5 U | 55.4 U | 57.8 U |
| Bis(2-chloroethoxy)methane | 46.2 U | 58.5 U | 55.4 U | 57.8 U |
| 2,4-Dichlorophenol | 60.8 U | 77 U | 72.9 U | 76.1 U |
| Naphthalene | 51.9 U | 65.7 U | 62.9 J | 64.9 U |
| 4-Chloroaniline | 51.1 U | 64.7 U | 61.2 U | 63.9 U |
| 2-Methylnaphthalene | 47 U | 59.6 U | 56.4 U | 58.8 U |
| Hexachlorobutadiene | 47 U | 59.6 U | 56.4 U | 58.8 U |
| 4-Chloro-3-methylphenol | 45.4 U | 57.5 U | 54.4 U | 56.8 U |
| Hexachlorocyclopentadiene | 32.4 U | 41.1 U | 38.9 U | 40.6 U |
| 2,4,6-Trichlorophenol | 55.2 U | 69.8 U | 66.1 U | 69 U |
| 2,4,5-Trichlorophenol | 60 U | 76 U | 72 U | 75 U |
| 2-Chloronaphthalene | 54.1 U | 68.5 U | 64.8 U | 67.6 U |
| 2-Nitroaniline | 46.2 U | 58.5 U | 55.4 U | 57.8 U |
| Acenaphthylene | 44.6 U | 56.5 U | 84.4 J | 55.8 U |
| Dimethylphthalate | 47.9 U | 60.6 U | 57.4 U | 59.8 U |
| 2,6-Dinitrotoluene | 40.6 U | 51.4 U | 48.6 U | 50.7 U |
| Acenaphthene | 39.7 U | 50.3 U | 47.6 U | 49.7 U |
| 3-Nitroaniline | 64.9 U | 82.2 U | 77.8 U | 81.1 U |
| 2,4-Dinitrophenol | 178 U | 226 U | 214 U | 223 U |
| Dibenzofuran | 43.8 U | 55.5 U | 61.7 J | 54.8 U |
| 2,4-Dinitrotoluene | 39.7 U | 50.3 U | 47.6 U | 49.7 U |
| 4-Nitrophenol | 43 U | 54.4 U | 51.5 U | 53.8 U |
| Fluorene | 41.4 U | 52.4 U | 122 J | 51.7 U |
| 4-Chlorophenyl-phenylether | 41.4 U | 52.4 U | 49.6 U | 51.7 U |
| Diethylphthalate | 41.4 U | 52.4 U | 49.6 U | 51.7 U |
| 4-Nitroaniline | 71.4 U | 90.4 U | 85.6 U | 89.2 U |
| 4,6-Dinitro-2-methylphenol | 216 U | 273 U | 259 U | 270 U |
| N-Nitrosodiphenylamine | 51.1 U | 64.7 U | 61.2 U | 63.9 U |
| 4-Bromophenyl-phenylether | 39.7 U | 50.3 U | 47.6 U | 49.7 U |
| Hexachlorobenzene | 43 U | 54.4 U | 51.5 U | 53.8 U |
| Pentachlorophenol | 108 U | 137 U | 129 U | 135 U |
| Phenanthrene | 215 J | 57.5 U | 574 | 56.8 U |

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ABC COKE PROPERTY
EPA SEDIMENT SAMPLING RESULTS - APRIL 2012**

| Sample ID | EPAFMC-SD-08 | EPAFMC-SD-09 | EPAFMC-SD-10 | EPAFMC-SD-11 |
|--------------------------------|---------------------------------|----------------------------------|----------------------------------|----------------------------------|
| Lat/Long | 33.584813957, -86.7877832913 | 33.5852564051, -86.7873597517 | 33.5857178053, -86.7870111407 | 33.5868523067, -86.7862588565 |
| Property | ABC Coke | ABC Coke | ABC Coke | ABC Coke |
| Location ID | EPAFMC07 | EPAFMC08 | EPAFMC09 | EPAFMC10 |
| Sample Date | 4/24/2012 | 4/24/2012 | 4/24/2012 | 4/24/2012 |
| Matrix | Sediment | Sediment | Sediment | Sediment |
| Sample Type | Field Sample | Field Sample | Field Sample | Field Sample |
| Anthracene | 48.7 U | 61.6 U | 154 J | 60.8 U |
| Di-n-butylphthalate | 35.7 U | 45.2 U | 42.8 U | 44.6 U |
| Fluoranthene | 380 | 214 J | 630 | 275 |
| Pyrene | 317 | 252 J | 495 | 265 J |
| Butylbenzylphthalate | 51.1 U | 64.7 U | 61.2 U | 63.9 U |
| 3,3'-Dichlorobenzidine | 47.9 U | 60.6 U | 57.4 U | 59.8 U |
| Benzo(a)anthracene | 172 J | 161 J | 338 | 176 J |
| Chrysene | 187 J | 161 J | 326 | 183 J |
| Bis(2-ethylhexyl)phthalate | 67.3 U | 85.2 U | 80.7 U | 84.2 U |
| Di-n-octylphthalate | 47 U | 59.6 U | 56.4 U | 58.8 U |
| Benzo(b)fluoranthene | 210 J | 163 J | 350 | 186 J |
| Benzo(k)fluoranthene | 87.6 J | 77.4 J | 123 J | 91.8 J |
| Benzo(a)pyrene | 129 J | 108 J | 227 J | 118 J |
| Indeno(1,2,3-cd)pyrene | 79.2 J | 57.9 J | 104 J | 60.6 J |
| Dibenzo(a,h)anthracene | 33.2 U | 42.1 U | 50.2 J | 41.6 U |
| Benzo(g,h,i)perylene | 88.6 J | 65.7 J | 118 J | 70.2 J |
| Acetophenone | 81.1 U | 103 U | 97.2 U | 101 U |
| 1,2,4,5-Tetrachlorobenzene | 38.1 U | 48.3 U | 45.7 U | 47.7 U |
| Carbazole | 43.8 U | 55.5 U | 76.6 J | 54.8 U |
| Caprolactam | 114 U | 144 U | 136 U | 142 U |
| 1,1'-Biphenyl | 49.5 U | 62.6 U | 59.3 U | 61.9 U |
| Atrazine | 64.1 U | 81.1 U | 76.8 U | 80.1 U |
| Benzaldehyde | 36.5 U | 46.2 U | 43.8 U | 45.6 U |
| PAH - 8270D SIM (ug/kg) | | | | |
| 1-Methylnaphthalene | 4.5 | 2.8 J | 4.6 | 5.3 |
| 2-Methylnaphthalene | 9.6 | 6.4 | 11.3 | 9.9 |
| Acenaphthene | 25.2 | 3.4 | 4.2 | 7.7 |
| Acenaphthylene | 52.8 | 17.6 | 39.9 | 20.8 |
| Anthracene | 43.1 | 29.8 | 104 | 35.5 |
| Benzo(a)anthracene | 119 | 148 | 298 | 107 |
| Benzo(a)pyrene | 95.7 | 114 | 208 | 92.4 |
| Benzo(b)fluoranthene | 154 | 160 | 298 | 135 |
| Benzo(g,h,i)perylene | 61.4 | 62.3 | 111 | 55.8 |
| Benzo(k)fluoranthene | 44.9 | 51.6 | 107 | 46 |
| Chrysene | 106 | 124 | 297 | 88.9 |
| Dibenzo(a,h)anthracene | 18.7 | 23.7 | 46.3 | 19.7 |
| Fluoranthene | 202 | 199 | 423 | 185 |
| Fluorene | 14.4 | 7.5 | 16.6 | 15.3 |
| Indeno(1,2,3-cd)pyrene | 54.1 | 59.4 | 110 | 51.8 |
| Naphthalene | 29.5 | 26 | 42.8 | 69 |
| Phenanthrene | 81 | 50.1 | 106 | 60.8 |
| Pyrene | 148 | 230 | 313 | 133 |

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| | | | | |
|--|----------------------------------|----------------------------------|----------------------------------|--------------------------------|
| Sample ID | EPAFMC-SD-12 | EPAFMC-SD-13 | EPAFMC-SD-14 | EPAFMC-SD-15 |
| Lat/Long | 33.5868958616, -86.7860987383 | 33.5882493838, -86.7852679586 | 33.5884123134, -86.7837331575 | 33.588531284, -86.781410225 |
| Property | ABC Coke | ABC Coke | ABC Coke | ABC Coke |
| Location ID | EPAFMC11 | EPAFMC12 | EPAFMC13 | EPAFMC14 |
| Sample Date | 4/24/2012 | 4/24/2012 | 4/24/2012 | 4/24/2012 |
| Matrix | Sediment | Sediment | Sediment | Sediment |
| Sample Type | Field Sample | Field Sample | Field Sample | Field Sample |
| Wet Chemistry (mg/kg) | | | | |
| TOC - 9060Mod | 13200 | 26200 | 1640 | 14300 |
| Metals, Total 6010B/7471A (mg/kg) | | | | |
| Aluminum | 4670 | 5520 | 3570 | 5890 |
| Antimony | 1.26 J | 0.735 J | 0.562 J | 0.55 J |
| Arsenic | 18 | 15.2 | 13.9 | 14.4 |
| Barium | 54.6 | 49.1 | 26.8 | 67.7 |
| Beryllium | 0.486 | 0.52 U | 0.437 | 0.587 |
| Cadmium | 0.0467 U | 0.052 U | 0.0352 U | 1.46 |
| Calcium | 18600 | 19200 | 12400 | 24200 |
| Chromium | 61.3 | 50.2 | 45 | 63.2 |
| Cobalt | 13 | 10.3 | 6.51 | 7.69 |
| Copper | 636 J | 43.1 | 14.3 | 11.9 |
| Iron | 31500 | 35700 | 32500 | 35000 |
| Lead | 30.4 | 36.1 | 15.2 | 18.4 |
| Magnesium | 6980 | 7370 | 4680 | 9660 |
| Manganese | 892 | 915 | 787 | 851 |
| Nickel | 18.3 | 10.7 | 5.7 | 16.6 |
| Potassium | 272 | 312 | 126 | 283 |
| Selenium | 0.374 U | 0.416 U | 0.282 U | 0.31 U |
| Silver | 0.467 U | 0.166 U | 0.113 U | 0.124 U |
| Sodium | 80.1 | 73.6 | 45.8 | 227 |
| Thallium | 0.318 U | 0.656 J | 0.326 J | 0.271 J |
| Vanadium | 45 | 52 | 44 | 50.5 |
| Zinc | 144 | 168 | 110 | 146 |
| Mercury | 0.0256 | 0.167 | 0.0186 | 0.0165 |
| PCB - 8082 (ug/kg) | | | | |
| Aroclor-1016 | 15 U | NA | NA | NA |
| Aroclor-1221 | 14 U | NA | NA | NA |
| Aroclor-1232 | 23 U | NA | NA | NA |
| Aroclor-1242 | 13 U | NA | NA | NA |
| Aroclor-1248 | 13 U | NA | NA | NA |
| Aroclor-1254 | 11 U | NA | NA | NA |
| Aroclor-1260 | 8.2 U | NA | NA | NA |

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EPA SEDIMENT SAMPLING RESULTS - APRIL 2012**

| Sample ID | EPAFMC-SD-12 | EPAFMC-SD-13 | EPAFMC-SD-14 | EPAFMC-SD-15 |
|------------------------------|----------------------------------|----------------------------------|----------------------------------|--------------------------------|
| Lat/Long | 33.5868958616, -86.7860987383 | 33.5882493838, -86.7852679586 | 33.5884123134, -86.7837331575 | 33.588531284, -86.781410225 |
| Property | ABC Coke | ABC Coke | ABC Coke | ABC Coke |
| Location ID | EPAFMC11 | EPAFMC12 | EPAFMC13 | EPAFMC14 |
| Sample Date | 4/24/2012 | 4/24/2012 | 4/24/2012 | 4/24/2012 |
| Matrix | Sediment | Sediment | Sediment | Sediment |
| Sample Type | Field Sample | Field Sample | Field Sample | Field Sample |
| SVOC - 8270D (ug/kg) | | | | |
| Bis(2-chloroethyl)ether | 62.2 U | 68.1 U | 64.8 U | 64 U |
| Phenol | 60.4 U | 66.1 U | 62.8 U | 62.1 U |
| 2-Chlorophenol | 64.1 U | 70.2 U | 66.7 U | 66 U |
| 2,2'-Oxybis(1-chloropropane) | 204 U | 224 U | 213 U | 210 U |
| 2-Methylphenol | 89.1 U | 97.6 U | 92.8 U | 91.8 U |
| Hexachloroethane | 46.4 U | 50.8 U | 48.3 UJ | 47.8 UJ |
| N-Nitroso-di-n-propylamine | 56.6 U | 62 U | 59 UJ | 58.3 UJ |
| 4-Methylphenol | 54.8 U | 60 U | 57 U | 56.4 U |
| Nitrobenzene | 55.7 U | 61 U | 58 UJ | 57.4 UJ |
| Isophorone | 54.8 U | 60 U | 57 U | 56.4 U |
| 2-Nitrophenol | 66.8 U | 73.2 U | 69.6 U | 68.8 U |
| 2,4-Dimethylphenol | 52.9 U | 58 U | 55.1 U | 54.5 U |
| Bis(2-chloroethoxy)methane | 52.9 U | 58 U | 55.1 U | 54.5 U |
| 2,4-Dichlorophenol | 69.6 U | 76.2 U | 72.5 U | 71.7 U |
| Naphthalene | 342 | 121 J | 61.9 U | 61.2 U |
| 4-Chloroaniline | 58.5 U | 64 U | 60.9 U | 60.2 U |
| 2-Methylnaphthalene | 65.7 J | 59 U | 56.1 U | 55.4 U |
| Hexachlorobutadiene | 53.8 U | 59 U | 56.1 U | 55.4 U |
| 4-Chloro-3-methylphenol | 52 U | 56.9 U | 54.1 U | 53.5 U |
| Hexachlorocyclopentadiene | 37.1 U | 40.7 U | 38.7 U | 38.2 U |
| 2,4,6-Trichlorophenol | 63.1 U | 69.1 U | 65.7 U | 65 U |
| 2,4,5-Trichlorophenol | 68.7 U | 75.2 U | 71.5 U | 70.7 U |
| 2-Chloronaphthalene | 61.9 U | 67.8 U | 64.5 U | 63.8 U |
| 2-Nitroaniline | 52.9 U | 58 U | 55.1 U | 54.5 U |
| Acenaphthylene | 97.7 J | 55.9 U | 53.2 U | 52.6 U |
| Dimethylphthalate | 54.8 U | 60 U | 57 U | 56.4 U |
| 2,6-Dinitrotoluene | 46.4 U | 50.8 U | 48.3 UJ | 47.8 UJ |
| Acenaphthene | 45.5 U | 49.8 U | 47.4 U | 46.8 U |
| 3-Nitroaniline | 74.3 U | 81.3 U | 77.3 U | 76.5 U |
| 2,4-Dinitrophenol | 204 U | 224 U | 213 U | 210 U |
| Dibenzofuran | 57.3 J | 54.9 U | 52.2 U | 51.6 U |
| 2,4-Dinitrotoluene | 45.5 U | 49.8 U | 47.4 UJ | 46.8 UJ |
| 4-Nitrophenol | 49.2 U | 53.9 U | 51.2 U | 50.7 U |
| Fluorene | 55.3 J | 58.9 J | 49.3 U | 48.8 U |
| 4-Chlorophenyl-phenylether | 47.4 U | 51.8 U | 49.3 U | 48.8 U |
| Diethylphthalate | 47.4 U | 51.8 U | 49.3 U | 48.8 U |
| 4-Nitroaniline | 81.7 U | 89.5 U | 85.1 U | 84.1 U |
| 4,6-Dinitro-2-methylphenol | 247 U | 270 U | 257 U | 254 U |
| N-Nitrosodiphenylamine | 58.5 U | 64 U | 60.9 UJ | 60.2 UJ |
| 4-Bromophenyl-phenylether | 45.5 U | 49.8 U | 47.4 U | 46.8 U |
| Hexachlorobenzene | 49.2 U | 53.9 U | 51.2 U | 50.7 U |
| Pentachlorophenol | 124 U | 135 U | 128 U | 127 U |
| Phenanthrene | 373 | 534 | 730 | 53.5 U |

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| Sample ID | EPAFMC-SD-12 | EPAFMC-SD-13 | EPAFMC-SD-14 | EPAFMC-SD-15 |
|--------------------------------|----------------------------------|----------------------------------|----------------------------------|--------------------------------|
| Lat/Long | 33.5868958616, -86.7860987383 | 33.5882493838, -86.7852679586 | 33.5884123134, -86.7837331575 | 33.588531284, -86.781410225 |
| Property | ABC Coke | ABC Coke | ABC Coke | ABC Coke |
| Location ID | EPAFMC11 | EPAFMC12 | EPAFMC13 | EPAFMC14 |
| Sample Date | 4/24/2012 | 4/24/2012 | 4/24/2012 | 4/24/2012 |
| Matrix | Sediment | Sediment | Sediment | Sediment |
| Sample Type | Field Sample | Field Sample | Field Sample | Field Sample |
| Anthracene | 176 J | 142 J | 169 J | 57.4 U |
| Di-n-butylphthalate | 40.8 U | 44.7 U | 42.5 U | 42.1 U |
| Fluoranthene | 1060 | 910 | 1580 | 45.9 U |
| Pyrene | 878 | 914 | 1200 | 88 U |
| Butylbenzylphthalate | 58.5 U | 64 U | 60.9 U | 60.2 U |
| 3,3'-Dichlorobenzidine | 54.8 U | 60 U | 57 U | 56.4 U |
| Benzo(a)anthracene | 574 | 466 | 767 | 54.5 U |
| Chrysene | 550 | 591 | 815 | 32.5 U |
| Bis(2-ethylhexyl)phthalate | 77.1 U | 84.4 U | 80.2 U | 79.3 U |
| Di-n-octylphthalate | 53.8 U | 59 U | 56.1 U | 55.4 U |
| Benzo(b)fluoranthene | 569 | 603 | 882 | 60.2 U |
| Benzo(k)fluoranthene | 279 | 454 | 660 | 54.5 U |
| Benzo(a)pyrene | 397 | 362 | 549 | 41.1 U |
| Indeno(1,2,3-cd)pyrene | 192 J | 206 J | 292 | 49.7 U |
| Dibenzo(a,h)anthracene | 71.6 J | 41.7 U | 124 J | 39.2 U |
| Benzo(g,h,i)perylene | 215 J | 235 J | 324 | 38.2 U |
| Acetophenone | 92.9 U | 102 U | 96.7 UJ | 95.6 UJ |
| 1,2,4,5-Tetrachlorobenzene | 43.6 U | 47.8 U | 45.4 U | 44.9 U |
| Carbazole | 69.8 J | 61.3 J | 142 J | 51.6 U |
| Caprolactam | 130 U | 142 U | 135 U | 134 U |
| 1,1'-Biphenyl | 56.6 U | 62 U | 59 U | 58.3 U |
| Atrazine | 73.4 U | 80.3 U | 76.4 U | 75.5 U |
| Benzaldehyde | 41.8 U | 45.8 U | 43.5 U | 43 U |
| PAH - 8270D SIM (ug/kg) | | | | |
| 1-Methylnaphthalene | 65.8 | 16.2 | 2.1 J | 1.9 J |
| 2-Methylnaphthalene | 162 | 35 | 4.1 | 4.2 |
| Acenaphthene | 36.1 | 22.8 | 2.3 J | 1.4 J |
| Acenaphthylene | 120 | 68.7 | 5.4 | 4 |
| Anthracene | 270 | 143 | 7.6 | 4.8 |
| Benzo(a)anthracene | 423 | 582 | 36.4 | 28.1 |
| Benzo(a)pyrene | 361 | 407 | 32.2 | 30.3 |
| Benzo(b)fluoranthene | 544 | 672 | 53.5 | 50 |
| Benzo(g,h,i)perylene | 215 | 249 | 21.5 | 25.9 |
| Benzo(k)fluoranthene | 179 | 199 | 15 | 15.2 |
| Chrysene | 371 | 452 | 33.6 | 30.3 |
| Dibenzo(a,h)anthracene | 74.7 | 84.4 | 7.4 | 7 |
| Fluoranthene | 764 | 962 | 54.1 | 51.6 |
| Fluorene | 116 | 35 | 4.1 | 2.1 J |
| Indeno(1,2,3-cd)pyrene | 206 | 231 | 19.1 | 22.1 |
| Naphthalene | 666 | 120 | 13.9 | 8.8 |
| Phenanthrene | 422 | 276 | 20.7 | 19.1 |
| Pyrene | 532 | 698 | 45.8 | 43.7 |

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ABC COKE PROPERTY
EPA SEDIMENT SAMPLING RESULTS - APRIL 2012**

| | | | |
|--|----------------------------------|---------------------------------|----------------------------------|
| Sample ID | EPAFMC-SD-16 | EPAFMC-SD-17 | EPAFMC-SD-18 |
| Lat/Long | 33.5868958616, -86.7860987383 | 33.5857336891, -86.792133675 | 33.5854783372, -86.7917161552 |
| Property | ABC Coke | ABC Coke | ABC Coke |
| Location ID | EPAFMC11 | EPAFMC15 | EPAFMC16 |
| Sample Date | 4/24/2012 | 4/25/2012 | 4/25/2012 |
| Matrix | Sediment | Sediment | Sediment |
| Sample Type | Field Duplicate | Field Sample | Field Sample |
| Wet Chemistry (mg/kg) | | | |
| TOC - 9060Mod | 6240 | 1860 | 12100 |
| Metals, Total 6010B/7471A (mg/kg) | | | |
| Aluminum | 4120 | 5190 J | 5420 |
| Antimony | 4.95 J | 1.04 U | 1.17 U |
| Arsenic | 12.4 | 19.1 | 8.48 |
| Barium | 56 | 62.7 J | 60.1 |
| Beryllium | 0.404 U | 0.561 | 0.958 |
| Cadmium | 0.0404 U | 0.0522 U | 0.0586 U |
| Calcium | 20000 | 20400 | 9500 |
| Chromium | 54.4 | 63.8 J | 29.6 |
| Cobalt | 10.4 | 9.38 | 5.99 |
| Copper | 12.3 J | 14.1 J | 9.03 |
| Iron | 24300 | 38600 | 18600 |
| Lead | 42.7 | 20.7 | 15.5 |
| Magnesium | 8940 | 7170 | 2790 |
| Manganese | 703 | 869 J | 375 |
| Nickel | 14.1 | 11.5 | 8.2 |
| Potassium | 238 | 370 | 374 |
| Selenium | 0.323 U | 0.418 U | 0.469 U |
| Silver | 0.129 UJ | 0.167 U | 0.188 U |
| Sodium | 93.4 | 105 | 249 |
| Thallium | 0.5 J | 1.05 J | 1.17 U |
| Vanadium | 34.9 | 55.1 | 28.2 |
| Zinc | 121 | 135 J | 95.9 |
| Mercury | 0.0193 | 0.0263 J | 0.0322 J |
| PCB - 8082 (ug/kg) | | | |
| Aroclor-1016 | 16 U | NA | NA |
| Aroclor-1221 | 15 U | NA | NA |
| Aroclor-1232 | 25 U | NA | NA |
| Aroclor-1242 | 14 U | NA | NA |
| Aroclor-1248 | 14 U | NA | NA |
| Aroclor-1254 | 12 U | NA | NA |
| Aroclor-1260 | 8.7 U | NA | NA |

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

| Sample ID | EPAFMC-SD-16 | EPAFMC-SD-17 | EPAFMC-SD-18 |
|------------------------------|----------------------------------|---------------------------------|----------------------------------|
| Lat/Long | 33.5868958616, -86.7860987383 | 33.5857336891, -86.792133675 | 33.5854783372, -86.7917161552 |
| Property | ABC Coke | ABC Coke | ABC Coke |
| Location ID | EPAFMC11 | EPAFMC15 | EPAFMC16 |
| Sample Date | 4/24/2012 | 4/25/2012 | 4/25/2012 |
| Matrix | Sediment | Sediment | Sediment |
| Sample Type | Field Duplicate | Field Sample | Field Sample |
| SVOC - 8270D (ug/kg) | | | |
| Bis(2-chloroethyl)ether | 65.9 U | 63.6 U | 69.3 U |
| Phenol | 63.9 U | 61.7 U | 67.2 U |
| 2-Chlorophenol | 67.9 U | 65.5 U | 71.4 U |
| 2,2'-Oxybis(1-chloropropane) | 216 U | 209 U | 228 U |
| 2-Methylphenol | 94.4 U | 91.1 U | 99.3 U |
| Hexachloroethane | 49.2 U | 47.4 U | 51.7 U |
| N-Nitroso-di-n-propylamine | 60 U | 57.9 U | 63.1 U |
| 4-Methylphenol | 58 U | 56 U | 61 U |
| Nitrobenzene | 59 U | 56.9 U | 62 U |
| Isophorone | 58 U | 56 U | 61 U |
| 2-Nitrophenol | 70.8 U | 68.3 U | 74.5 U |
| 2,4-Dimethylphenol | 56.1 U | 54.1 U | 58.9 U |
| Bis(2-chloroethoxy)methane | 56.1 U | 54.1 U | 58.9 U |
| 2,4-Dichlorophenol | 73.8 U | 71.2 U | 77.6 U |
| Naphthalene | 431 | 154 J | 66.2 U |
| 4-Chloroaniline | 62 U | 59.8 U | 65.2 U |
| 2-Methylnaphthalene | 81.5 J | 55 U | 60 U |
| Hexachlorobutadiene | 57.1 U | 55 U | 60 U |
| 4-Chloro-3-methylphenol | 55.1 U | 53.1 U | 57.9 U |
| Hexachlorocyclopentadiene | 39.4 U | 38 U | 41.4 U |
| 2,4,6-Trichlorophenol | 66.9 U | 64.5 U | 70.3 U |
| 2,4,5-Trichlorophenol | 72.8 U | 70.2 U | 76.5 U |
| 2-Chloronaphthalene | 65.6 U | 63.3 U | 69 U |
| 2-Nitroaniline | 56.1 U | 54.1 U | 58.9 U |
| Acenaphthylene | 86.3 J | 324 | 56.9 U |
| Dimethylphthalate | 58 U | 56 U | 61 U |
| 2,6-Dinitrotoluene | 49.2 U | 47.4 U | 51.7 U |
| Acenaphthene | 48.2 U | 46.5 U | 50.7 U |
| 3-Nitroaniline | 78.7 U | 75.9 U | 82.7 U |
| 2,4-Dinitrophenol | 216 U | 209 U | 228 U |
| Dibenzofuran | 77.6 J | 190 J | 55.8 U |
| 2,4-Dinitrotoluene | 48.2 U | 46.5 U | 50.7 U |
| 4-Nitrophenol | 52.1 U | 50.3 U | 54.8 U |
| Fluorene | 66.6 J | 397 | 52.7 U |
| 4-Chlorophenyl-phenylether | 50.2 U | 48.4 U | 52.7 U |
| Diethylphthalate | 50.2 U | 48.4 U | 52.7 U |
| 4-Nitroaniline | 86.6 U | 83.5 U | 91 U |
| 4,6-Dinitro-2-methylphenol | 262 U | 252 U | 275 U |
| N-Nitrosodiphenylamine | 62 U | 59.8 U | 65.2 U |
| 4-Bromophenyl-phenylether | 48.2 U | 46.5 U | 50.7 U |
| Hexachlorobenzene | 52.1 U | 50.3 U | 54.8 U |
| Pentachlorophenol | 131 U | 126 U | 138 U |
| Phenanthrene | 314 | 3850 | 172 J |

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ABC COKE PROPERTY
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|--------------------------------|----------------------------------|---------------------------------|----------------------------------|
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| Property | ABC Coke | ABC Coke | ABC Coke |
| Location ID | EPAFMC11 | EPAFMC15 | EPAFMC16 |
| Sample Date | 4/24/2012 | 4/25/2012 | 4/25/2012 |
| Matrix | Sediment | Sediment | Sediment |
| Sample Type | Field Duplicate | Field Sample | Field Sample |
| Anthracene | 152 J | 915 | 68.2 J |
| Di-n-butylphthalate | 43.3 U | 41.8 U | 45.5 U |
| Fluoranthene | 710 | 4320 | 547 |
| Pyrene | 610 | 2810 | 424 |
| Butylbenzylphthalate | 62 U | 59.8 U | 65.2 U |
| 3,3'-Dichlorobenzidine | 58 U | 56 U | 61 U |
| Benzo(a)anthracene | 414 | 2060 | 325 |
| Chrysene | 438 | 1790 | 346 |
| Bis(2-ethylhexyl)phthalate | 81.6 U | 78.8 U | 85.8 U |
| Di-n-octylphthalate | 57.1 U | 55 U | 60 U |
| Benzo(b)fluoranthene | 410 | 1860 | 360 |
| Benzo(k)fluoranthene | 329 | 914 | 189 J |
| Benzo(a)pyrene | 303 | 1230 | 244 J |
| Indeno(1,2,3-cd)pyrene | 145 J | 555 | 139 J |
| Dibenzo(a,h)anthracene | 40.3 U | 247 J | 52.5 J |
| Benzo(g,h,i)perylene | 164 J | 575 | 167 J |
| Acetophenone | 98.4 U | 94.9 U | 103 U |
| 1,2,4,5-Tetrachlorobenzene | 46.2 U | 44.6 U | 48.6 U |
| Carbazole | 79.3 J | 521 | 55.8 U |
| Caprolactam | 138 U | 133 U | 145 U |
| 1,1'-Biphenyl | 60 U | 57.9 U | 63.1 U |
| Atrazine | 77.7 U | 75 U | 81.7 U |
| Benzaldehyde | 44.3 U | 42.7 U | 46.5 U |
| PAH - 8270D SIM (ug/kg) | | | |
| 1-Methylnaphthalene | 48.9 | 5.6 | 6 |
| 2-Methylnaphthalene | 116 | 13.3 | 13.1 |
| Acenaphthene | 40.1 | 14.5 | 7.6 |
| Acenaphthylene | 94.4 | 86.3 | 53.4 |
| Anthracene | 200 | 201 | 76.8 |
| Benzo(a)anthracene | 398 | 581 | 342 |
| Benzo(a)pyrene | 343 | 426 | 304 |
| Benzo(b)fluoranthene | 480 | 628 | 418 |
| Benzo(g,h,i)perylene | 204 | 199 | 181 |
| Benzo(k)fluoranthene | 166 | 207 | 140 |
| Chrysene | 344 | 546 | 286 |
| Dibenzo(a,h)anthracene | 73.2 | 89.5 | 64.2 |
| Fluoranthene | 758 | 816 | 456 |
| Fluorene | 98.7 | 32.2 | 15.3 |
| Indeno(1,2,3-cd)pyrene | 196 | 201 | 171 |
| Naphthalene | 578 | 57.9 | 51.8 |
| Phenanthrene | 359 | 228 | 132 |
| Pyrene | 565 | 551 | 341 |

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

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