

OBED MOUNTAIN MINE
TABLE 1 APETOWUN CREEK (APC)

| Method Type | Chemical | Unit | MDL | Location | APC | APC | APC | APC | APC | APC | APC | APC | APC |
|----------------------------|-----------------------------|------|--------|----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| | | | | Date | 01-Nov-13 | 02-Nov-13 | 03-Nov-13 | 04-Nov-13 | 05-Nov-13 | 06-Nov-13 | 07-Nov-13 | 08-Nov-13 | 09-Nov-13 |
| Volatile Organic Compounds | 1,1,1-trichloroethane | µg/L | 1 | - | - | - | - | - | <1 | <1 | <1 | <1 | <1 |
| | 1,1,2,2-tetrachloroethane | µg/L | 20 | - | - | - | - | - | <20 | <20 | <20 | <20 | <20 |
| | 1,1,2-trichloroethane | µg/L | 2 | - | - | - | - | - | <2 | <2 | <2 | <2 | <2 |
| | 1,1-dichloroethane | µg/L | 1 | - | - | - | - | - | <1 | <1 | <1 | <1 | <1 |
| | 1,1-dichloroethene | µg/L | 1 | - | - | - | - | - | <1 | <1 | <1 | <1 | <1 |
| | 1,2,3-trichloropropane | µg/L | 5 | - | - | - | - | - | <5 | <5 | <5 | <5 | <5 |
| | 1,2-dibromoethane | µg/L | 1 | - | - | - | - | - | <1 | <1 | <1 | <1 | <1 |
| | 1,2-dichlorobenzene | µg/L | 1 | - | - | - | - | - | <1 | <1 | <1 | <1 | <1 |
| | 1,2-dichloroethane | µg/L | 2 | - | - | - | - | - | <2 | <2 | <2 | <2 | <2 |
| | 1,2-dichloropropane | µg/L | 2 | - | - | - | - | - | <2 | <2 | <2 | <2 | <2 |
| | 1,3-dichlorobenzene | µg/L | 1 | - | - | - | - | - | <1 | <1 | <1 | <1 | <1 |
| | 1,4-dichlorobenzene | µg/L | 1 | - | - | - | - | - | <1 | <1 | <1 | <1 | <1 |
| | Methyl Ethyl Ketone | µg/L | 100 | - | - | - | - | - | <100 | <100 | <100 | <100 | <100 |
| | 2-hexanone (MBK) | µg/L | 10 | - | - | - | - | - | <10 | <10 | <10 | <10 | <10 |
| | 4-Methyl-2-pentanone | µg/L | 10 | - | - | - | - | - | <10 | <10 | <10 | <10 | <10 |
| | Acetone | mg/L | 0.1 | - | - | - | - | - | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| | Acrolein | µg/L | 100 | - | - | - | - | - | <100 | <100 | <100 | <100 | <100 |
| | Acrylonitrile | µg/L | 100 | - | - | - | - | - | <100 | <100 | <100 | <100 | <100 |
| | Benzene | mg/L | 0.0005 | 0.00095 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 |
| | Toluene | mg/L | 0.0005 | 0.00052 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 |
| | Bromodichloromethane | µg/L | 1 | - | - | - | - | - | <1 | <1 | <1 | <1 | <1 |
| | Bromoforn | µg/L | 3 | - | - | - | - | - | <3 | <3 | <3 | <3 | <3 |
| | Bromomethane | µg/L | 10 | - | - | - | - | - | <10 | <10 | <10 | <10 | <10 |
| | Carbon disulfide | µg/L | 1 | - | - | - | - | - | <1 | <1 | <1 | <1 | <1 |
| | Carbon tetrachloride | µg/L | 1 | - | - | - | - | - | <1 | <1 | <1 | <1 | <1 |
| | Chlorobenzene | µg/L | 1 | - | - | - | - | - | <1 | <1 | <1 | <1 | <1 |
| | Chlorodibromomethane | µg/L | 3 | - | - | - | - | - | <3 | <3 | <3 | <3 | <3 |
| | Chloroethane | µg/L | 10 | - | - | - | - | - | <10 | <10 | <10 | <10 | <10 |
| | Chloroform | µg/L | 1 | - | - | - | - | - | <1 | <1 | <1 | <1 | <1 |
| | Chloromethane | µg/L | 10 | - | - | - | - | - | <10 | <10 | <10 | <10 | <10 |
| | cis-1,2-dichloroethene | µg/L | 1 | - | - | - | - | - | <1 | <1 | <1 | <1 | <1 |
| | cis-1,3-dichloropropene | µg/L | 1 | - | - | - | - | - | <1 | <1 | <1 | <1 | <1 |
| | cis-1,4-Dichloro-2-butene | µg/L | 10 | - | - | - | - | - | <10 | <10 | <10 | <10 | <10 |
| | Dibromomethane | µg/L | 3 | - | - | - | - | - | <3 | <3 | <3 | <3 | <3 |
| | Dichlorodifluoromethane | µg/L | 3 | - | - | - | - | - | <3 | <3 | <3 | <3 | <3 |
| | Dichloromethane | µg/L | 1 | - | - | - | - | - | <1 | <1 | <1 | <1 | <1 |
| | Ethanol | µg/L | 300 | - | - | - | - | - | <300 | <300 | <300 | <300 | <300 |
| | Ethyl methacrylate | µg/L | 10 | - | - | - | - | - | <10 | <10 | <10 | <10 | <10 |
| | Ethylbenzene | mg/L | 0.0005 | 0.0016 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 |
| | Xylene (m & p) | mg/L | 0.0005 | 0.0014 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 |
| | Xylene (o) | mg/L | 0.0005 | 0.00105 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 |
| | Xylenes Total | µg/L | 0.71 | 2.45 | <0.71 | <0.71 | <0.71 | <0.71 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 |
| | Iodomethane | µg/L | 1 | - | - | - | - | - | <1 | <1 | <1 | <1 | <1 |
| | Styrene | µg/L | 1 | - | - | - | - | - | <1 | <1 | <1 | <1 | <1 |
| | Trichloroethene | µg/L | 1 | - | - | - | - | - | <1 | <1 | <1 | <1 | <1 |
| | Tetrachloroethene | µg/L | 1 | - | - | - | - | - | <1 | <1 | <1 | <1 | <1 |
| | trans-1,2-dichloroethene | µg/L | 1 | - | - | - | - | - | <1 | <1 | <1 | <1 | <1 |
| | trans-1,3-dichloropropene | µg/L | 1 | - | - | - | - | - | <1 | <1 | <1 | <1 | <1 |
| | trans-1,4-Dichloro-2-butene | µg/L | 10 | - | - | - | - | - | <10 | <10 | <10 | <10 | <10 |
| | Trichlorofluoromethane | µg/L | 1 | - | - | - | - | - | <1 | <1 | <1 | <1 | <1 |
| | Vinyl acetate | µg/L | 100 | - | - | - | - | - | <100 | <100 | <100 | <100 | <100 |
| | Vinyl chloride | µg/L | 2 | - | - | - | - | - | <2 | <2 | <2 | <2 | <2 |

Notes
MDL - Method Detection Limit
- "Sample not analyzed for this parameter"
< - "result is less than the MDL. No detectable concentration was measured"
* EPA 247.7/245.1

OBED MOUNTAIN MINE
TABLE 1 APETOWUN CREEK (APC)

| | | Location | APC | APC | APC | APC | APC | APC | APC | APC | APC | APC |
|----------------------------|-----------------------------|----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| | | Date | 11-Nov-13 | 12-Nov-13 | 13-Nov-13 | 14-Nov-13 | 15-Nov-13 | 16-Nov-13 | 17-Nov-13 | 18-Nov-13 | 19-Nov-13 | 20-Nov-13 |
| Method Type | Chemical | Unit | MDL | | | | | | | | | |
| Volatile Organic Compounds | 1,1,1-trichloroethane | µg/L | 1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| | 1,1,2,2-tetrachloroethane | µg/L | 20 | <20 | <20 | <20 | <20 | <20 | <20 | <20 | <20 | <20 |
| | 1,1,2-trichloroethane | µg/L | 2 | <2 | <2 | <2 | <2 | <2 | <2 | <2 | <2 | <2 |
| | 1,1-dichloroethane | µg/L | 1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| | 1,1-dichloroethene | µg/L | 1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| | 1,2,3-trichloropropane | µg/L | 5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 |
| | 1,2-dibromoethane | µg/L | 1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| | 1,2-dichlorobenzene | µg/L | 1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| | 1,2-dichloroethane | µg/L | 2 | <2 | <2 | <2 | <2 | <2 | <2 | <2 | <2 | <2 |
| | 1,2-dichloropropane | µg/L | 2 | <2 | <2 | <2 | <2 | <2 | <2 | <2 | <2 | <2 |
| | 1,3-dichlorobenzene | µg/L | 1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| | 1,4-dichlorobenzene | µg/L | 1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| | Methyl Ethyl Ketone | µg/L | 100 | <100 | <100 | <100 | <100 | <100 | <100 | <100 | <100 | <100 |
| | 2-hexanone (MBK) | µg/L | 10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 |
| | 4-Methyl-2-pentanone | µg/L | 10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 |
| | Acetone | mg/L | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| | Acrolein | µg/L | 100 | <100 | <100 | <100 | <100 | <100 | <100 | <100 | <100 | <100 |
| | Acrylonitrile | µg/L | 100 | <100 | <100 | <100 | <100 | <100 | <100 | <100 | <100 | <100 |
| | Benzene | mg/L | 0.0005 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 |
| | Toluene | mg/L | 0.0005 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 |
| | Bromodichloromethane | µg/L | 1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| | Bromoforn | µg/L | 3 | <3 | <3 | <3 | <3 | <3 | <3 | <3 | <3 | <3 |
| | Bromomethane | µg/L | 10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 |
| | Carbon disulfide | µg/L | 1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| | Carbon tetrachloride | µg/L | 1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| | Chlorobenzene | µg/L | 1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| | Chlorodibromomethane | µg/L | 3 | <3 | <3 | <3 | <3 | <3 | <3 | <3 | <3 | <3 |
| | Chloroethane | µg/L | 10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 |
| | Chloroform | µg/L | 1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| | Chloromethane | µg/L | 10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 |
| | cis-1,2-dichloroethene | µg/L | 1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| | cis-1,3-dichloropropene | µg/L | 1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| | cis-1,4-Dichloro-2-butene | µg/L | 10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 |
| | Dibromomethane | µg/L | 3 | <3 | <3 | <3 | <3 | <3 | <3 | <3 | <3 | <3 |
| | Dichlorodifluoromethane | µg/L | 3 | <3 | <3 | <3 | <3 | <3 | <3 | <3 | <3 | <3 |
| | Dichloromethane | µg/L | 1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| | Ethanol | µg/L | 300 | <300 | <300 | <300 | <300 | <300 | <300 | <300 | <300 | <300 |
| | Ethyl methacrylate | µg/L | 10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 |
| | Ethylbenzene | mg/L | 0.0005 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 |
| | Xylene (m & p) | mg/L | 0.0005 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 |
| | Xylene (o) | mg/L | 0.0005 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 |
| | Xylenes Total | µg/L | 0.71 | - | - | - | - | - | - | - | - | - |
| | Iodomethane | µg/L | 1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| | Styrene | µg/L | 1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| | Trichloroethene | µg/L | 1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| | Tetrachloroethene | µg/L | 1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| | trans-1,2-dichloroethene | µg/L | 1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| | trans-1,3-dichloropropene | µg/L | 1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| | trans-1,4-Dichloro-2-butene | µg/L | 10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 |
| | Trichlorofluoromethane | µg/L | 1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| | Vinyl acetate | µg/L | 100 | <100 | <100 | <100 | <100 | <100 | <100 | <100 | <100 | <100 |
| | Vinyl chloride | µg/L | 2 | <2 | <2 | <2 | <2 | <2 | <2 | <2 | <2 | <2 |

Notes
MDL - Method Detection Limit
- "Sample not analyzed for this parameter"
< - "result is less than the MDL. No detectable concentration was measured"
* EPA 247.7/245.1

OBED MOUNTAIN MINE
TABLE 1 APETOWUN CREEK (APC)

| Method Type | Chemical | Unit | MDL | Location | | | | |
|-------------------------------------|----------------------------------|--------|---------|-----------|--------------------|-------------------|-------------------|------------------|
| | | | | Date | APC 21-Nov-13 | APC 22-Nov-13 | APC 24-Nov-13 | APC 25-Nov-13 |
| Aggregate Organics | Hydrocarbons, Recoverable (I.R.) | mg/L | 1 | <1 | <1 | <1 | <1 | <1 |
| | BOD | mg/L | 2 | <2 | <2 | <2 | <2 - 3.3 | <2 |
| | Oil and Grease | mg/L | 1 | - | - | - | - | - |
| | Phenols (4AAP) | µg/L | 1 | <1 | 1.2 - 1.8 | <1 | <1 | <1 |
| Anions and Nutrients | Alkalinity (T) as CaCO3 | mg/L | 2 | 390 | 249 - 390 | 383 - 384 | 382 - 385 | 392 |
| | Ammonia | mg/L | 0.05 | 0.068 | <0.05 - 0.057 | <0.05 | 0.055 | <0.05 |
| | Bicarbonate | mg/L | 5 | 476 | 304 - 476 | 463 - 464 | 461 - 462 | 475 |
| | Carbonate | mg/L | 5 | <5 | <5 | <5 | <5 | <5 |
| | Chloride | mg/L | 0.5 | 1.59 | <0.5 - 1.46 | 1.58 - 1.61 | 1.37 - 1.5 | 1.63 |
| | Electrical Conductivity (lab) | dS/m | 0.0002 | 0.946 | 0.478 - 0.945 | 0.936 - 0.938 | 0.941 - 0.944 | 0.916 |
| | Hydroxide | mg/L | 5 | <5 | <5 | <5 | <5 | <5 |
| | Ionic Balance | % | | 97 | 95.5 - 99.7 | 97.4 - 99.5 | 98 - 99.6 | 97 |
| | Kjeldahl Nitrogen Total | mg/L | 0.05 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 |
| | Nitrate (as N) | mg/L | 0.05 | <0.05 | <0.05 - 0.073 | <0.05 | <0.05 | <0.05 |
| | Nitrate + Nitrite-N | mg/L | 0.07 | <0.071 | <0.071 - 0.073 | <0.071 | <0.071 | <0.071 |
| | Nitrite (as N) | mg/L | 0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 |
| | pH (Lab) | pH | 0.1 | 8.26 | 8.13 - 8.26 | 8.32 | 8.33 - 8.35 | 8.32 |
| | Phosphorus | mg/L | 0.001 | 0.0073 | 0.0073 - 0.0212 | 0.0054 - 0.0058 | 0.0061 - 0.0067 | 0.0064 |
| | Phosphorus (Filtered) | mg/L | 0.001 | 0.0016 | <0.001 - 0.0026 | 0.0011 | 0.0017 - 0.0018 | 0.002 |
| | Sulphate | mg/L | 0.5 | 146 | 19.4 - 146 | 149 - 150 | 136 - 150 | 141 |
| | Sulphide | mg/L | 0.002 | <0.002 | <0.002 - 0.0086 | <0.002 | <0.002 | <0.002 |
| Hardness as CaCO3 | mg/L | | 326 | 234 - 322 | 317 - 323 | 318 - 323 | 321 | |
| TDS | mg/L | | 589 | 269 - 585 | 587 - 590 | 572 - 586 | 582 | |
| Cyanides | Cyanide Total | mg/L | 0.002 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 |
| Dissolved Metals | Aluminium (Filtered) | mg/L | 0.001 | 0.003 | 0.0013 - 0.0038 | 0.0014 - 0.0016 | 0.0016 - 0.0017 | 0.0015 |
| | Antimony (Filtered) | mg/L | 0.0001 | <0.0001 | <0.0001 | <0.0001 | <0.0001 | <0.0001 |
| | Arsenic (Filtered) | mg/L | 0.0001 | 0.00062 | 0.0003 - 0.0006 | 0.00052 - 0.00121 | 0.00051 - 0.00055 | 0.00057 |
| | Barium (Filtered) | mg/L | 0.00005 | 0.155 | 0.0857 - 0.155 | 0.137 - 0.142 | 0.144 - 0.149 | 0.13 |
| | Beryllium (Filtered) | mg/L | 0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 |
| | Bismuth (Filtered) | mg/L | 0.00005 | <0.00005 | <0.00005 | <0.00005 | <0.00005 | <0.00005 |
| | Boron (hot water ext) (Filtered) | mg/L | 0.01 | 0.051 | <0.01 - 0.05 | 0.046 - 0.048 | 0.049 | 0.045 |
| | Cadmium (Filtered) | mg/L | 0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 |
| | Calcium (Filtered) | mg/L | 0.02 | 87.4 | 67.8 - 85.1 | 81.7 - 83 | 83.2 - 83.8 | 83.1 |
| | Chromium (III+VI) (Filtered) | mg/L | 0.0001 | <0.0001 | <0.0001 | <0.0001 | <0.0001 | <0.0001 |
| | Cobalt (Filtered) | mg/L | 0.0001 | 0.00011 | <0.0001 - 0.00012 | <0.0001 - 0.0001 | <0.0001 | 0.00011 |
| | Copper (Filtered) | mg/L | 0.0001 | 0.00019 | 0.00018 - 0.00027 | 0.00027 | 0.00014 | 0.00013 |
| | Iron (Filtered) | mg/L | 0.01 | <0.01 | <0.01 - 0.013 | <0.01 | <0.01 | <0.01 |
| | Lead (Filtered) | mg/L | 0.00005 | <0.00005 | <0.00005 | <0.00005 | <0.00005 | <0.00005 |
| | Lithium (Filtered) | mg/L | 0.003 | 0.0377 | 0.0069 - 0.0378 | 0.0357 | 0.0409 - 0.0417 | 0.0359 |
| | Magnesium (Filtered) | mg/L | 0.005 | 26.1 | 15.6 - 27 | 27.5 - 28 | 26.7 - 27.6 | 27.5 |
| | Manganese (Filtered) | mg/L | 0.00005 | 0.0744 | 0.00542 - 0.0774 | 0.0711 - 0.0712 | 0.0764 - 0.0766 | 0.0859 |
| | Molybdenum (Filtered) | mg/L | 0.00005 | 0.00285 | 0.000884 - 0.00261 | 0.00233 - 0.00237 | 0.00251 - 0.00255 | 0.00227 |
| | Nickel (Filtered) | mg/L | 0.0001 | 0.00053 | 0.00036 - 0.00055 | 0.00054 | 0.00052 - 0.00055 | 0.00055 |
| | Phosphorus (Filtered) | mg/L | 0.3 | <0.3 | <0.3 | <0.3 | <0.3 | <0.3 |
| | Potassium (Filtered) | mg/L | 0.05 | 2.09 | 0.84 - 2.05 | 2.02 - 2.05 | 2.06 - 2.08 | 1.92 |
| | Selenium (Filtered) | mg/L | 0.0001 | 0.00025 | 0.00013 - 0.00022 | 0.00016 - 0.00018 | 0.00017 - 0.00019 | 0.00017 |
| | Silicon (Filtered) | µg/L | 50 | 5440 | 4390 - 5360 | 5270 - 5340 | 5250 - 5270 | 5410 |
| | Silver (Filtered) | mg/L | 0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 |
| | Sodium (Filtered) | mg/L | 0.05 | 91.8 | 15.8 - 90.5 | 94.2 - 96.2 | 91.5 - 92.2 | 91.6 |
| | Strontium (Filtered) | mg/L | 0.0001 | 0.994 | 0.381 - 0.93 | 0.928 - 0.932 | 0.959 - 1.01 | 0.883 |
| | Thallium (Filtered) | mg/L | 0.00005 | <0.00005 | <0.00005 | <0.00005 | <0.00005 | <0.00005 |
| | Tin (Filtered) | mg/L | 0.0001 | <0.0001 | <0.0001 | <0.0001 | <0.0001 | <0.0001 |
| | Titanium (Filtered) | mg/L | 0.0003 | <0.0003 | <0.0003 | <0.0003 | <0.0003 | <0.0003 |
| | Uranium (Filtered) | µg/L | 0.01 | 4.33 | 1.22 - 4.29 | 3.82 - 3.86 | 3.94 - 3.96 | 3.9 |
| | Vanadium (Filtered) | mg/L | 0.0001 | 0.00024 | 0.0002 - 0.00039 | 0.00022 - 0.00024 | 0.00021 - 0.00023 | 0.0002 |
| | Zinc (Filtered) | mg/L | 0.001 | <0.001 | <0.001 - 0.0014 | <0.001 | <0.001 | 0.0012 |
| | Organic / Inorganic Carbon | Carbon | mg/L | 1 | 3.2 | 2.9 - 4.3 | 2 - 2.2 | 2.2 - 3.1 |
| Dissolved Organic Carbon (Filtered) | | mg/L | 1 | 2.9 | 2.9 - 3.9 | 2.1 | 2.1 - 2.9 | 2.7 |
| Organic Parameters | Naphthenic Acid | mg/L | 1 | <1 | <1 | <1 | <1 | <1 |
| Physical Tests | Dissolved Oxygen (Filtered) | mg/L | 0.5 | - | - | - | - | - |
| | TDS (Filtered) | mg/L | 10 | 597 | 282 - 599 | 579 - 587 | 602 - 609 | 592 |
| | Total Suspended Solids | mg/L | 3 | <3 | <3 - 57 | 3 - 5 | <3 | 4 |
| | Turbidity | NTU | 0.1 | 6.09 | 4.95 - 17.4 | 4.23 - 4.27 | 4.09 - 4.2 | 3.86 |
| Polycyclic Aromatic Hydrocarbons | Benzol[b]fluoranthene | mg/L | 0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 |
| | C4 Benzantracenes/Chrysenes | ug/L | 0.04 | <0.04 | <0.04 | <0.04 | <0.04 | <0.04 |
| | C4 Dibenzothiophenes | ug/L | 0.04 | <0.04 | <0.04 | <0.04 | <0.04 | <0.04 |
| | C4 Fluoranthenes/Pyrenes | ug/L | 0.04 | <0.04 | <0.04 | <0.04 | <0.04 | <0.04 |
| | C4 Naphthalenes | ug/L | 0.04 | <0.04 | <0.04 | <0.04 | <0.04 | <0.04 |
| | C4 Phenanthrenes/Anthracenes | ug/L | 0.04 | 0.042 | <0.04 - 0.106 | <0.04 | <0.04 | <0.04 |
| | 1,1-Biphenyl | µg/L | 0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 |
| | 1-Methylnaphthalene | µg/L | 0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 |
| | 2-methylnaphthalene | µg/L | 0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 |
| | Acenaphthene | µg/L | 0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 |
| | Acenaphthylene | µg/L | 0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 |

Notes

- MDL - Method Detection Limit
- "Sample not analyzed for this parameter"
- < - "result is less than the MDL. No detectable concentration was measured"
- * EPA 247.7/245.1

OBED MOUNTAIN MINE
TABLE 1 APETOWUN CREEK (APC)

| Method Type | Chemical | Unit | MDL | Location | APC | APC | APC | APC | APC |
|-----------------------|------------------------------------|------|---------|----------|---------------------|---------------------|-------------------|-----------|-----------|
| | | | | Date | 21-Nov-13 | 22-Nov-13 | 24-Nov-13 | 25-Nov-13 | 26-Nov-13 |
| | Anthracene | µg/L | 0.01 | <0.04 | <0.04 | <0.04 | <0.04 | <0.04 | <0.04 |
| | Benz(a)anthracene | µg/L | 0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 |
| | Benzo(a) pyrene | µg/L | 0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 |
| | Acridine | mg/L | 0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 |
| | Benzo(e)pyrene | µg/L | 0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 |
| | Benzo(g,h,i)perylene | µg/L | 0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 |
| | Benzo(k)fluoranthene | µg/L | 0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 |
| | C1 Acenaphthenes | ug/L | 0.04 | <0.04 | <0.04 | <0.04 | <0.04 | <0.04 | <0.04 |
| | C1 Benz(a)Anthracenes/Chrysenes | ug/L | 0.04 | <0.04 | <0.04 | <0.04 | <0.04 | <0.04 | <0.04 |
| | C1 Benzofluoranthenes/Benzopyrenes | ug/L | 0.04 | <0.04 | <0.04 | <0.04 | <0.04 | <0.04 | <0.04 |
| | Chrysene | µg/L | 0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 |
| | C1 Biphenyls | ug/L | 0.04 | <0.04 | <0.04 | <0.04 | <0.04 | <0.04 | <0.04 |
| | C1 Dibenzothiophenes | ug/L | 0.04 | <0.04 | <0.04 | <0.04 | <0.04 | <0.04 | <0.04 |
| | C1 Fluoranthenes/Pyrenes | ug/L | 0.04 | - | - | - | - | - | - |
| | C1 Fluorenes | ug/L | 0.04 | <0.04 | <0.04 | <0.04 | <0.04 | <0.04 | <0.04 |
| | C1 Phenanthrenes/Anthracenes | ug/L | 0.04 | - | - | - | - | - | - |
| | Dibenz(a,h)anthracene | µg/L | 0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 |
| | Dibenzothiophene | ug/L | 0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 |
| | Fluoranthene | µg/L | 0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 |
| | Fluorene | µg/L | 0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 |
| | Indeno(1,2,3-c,d)pyrene | µg/L | 0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 |
| | Naphthalene | µg/L | 0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 |
| | Perylene | µg/L | 0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 |
| | Phenanthrene | µg/L | 0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 |
| | Pyrene | µg/L | 0.01 | <0.04 | <0.04 | <0.04 | <0.04 | <0.04 | <0.04 |
| | Quinoline | µg/L | 0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 |
| | Retene | ug/L | 0.01 | 0.042 | 0.034 - 0.106 | 0.018 - 0.019 | 0.018 - 0.027 | 0.024 | 0.024 |
| | C2 Benz(a)Anthracenes/Chrysenes | ug/L | 0.04 | <0.04 | <0.04 | <0.04 | <0.04 | <0.04 | <0.04 |
| | C2 Benzofluoranthenes/Benzopyrenes | ug/L | 0.04 | <0.04 | <0.04 | <0.04 | <0.04 | <0.04 | <0.04 |
| | C2 Biphenyls | ug/L | 0.04 | <0.04 | <0.04 | <0.04 | <0.04 | <0.04 | <0.04 |
| | C2 Dibenzothiophenes | ug/L | 0.04 | <0.04 | <0.04 | <0.04 | <0.04 | <0.04 | <0.04 |
| | C2 Fluoranthenes/Pyrenes | ug/L | 0.04 | <0.04 | <0.04 | <0.04 | <0.04 | <0.04 | <0.04 |
| | C2 Naphthalenes | ug/L | 0.04 | <0.04 | <0.04 | <0.04 | <0.04 | <0.04 | <0.04 |
| | C2 Phenanthrenes/Anthracenes | ug/L | 0.04 | <0.04 | <0.04 | <0.04 | <0.04 | <0.04 | <0.04 |
| | C2 Fluorenes | ug/L | 0.04 | <0.04 | <0.04 | <0.04 | <0.04 | <0.04 | <0.04 |
| | C3 Benzanthracenes/Chrysenes | ug/L | 0.04 | <0.04 | <0.04 | <0.04 | <0.04 | <0.04 | <0.04 |
| | C3 Dibenzothiophenes | ug/L | 0.04 | <0.04 | <0.04 | <0.04 | <0.04 | <0.04 | <0.04 |
| | C3 Fluoranthenes/Pyrenes | ug/L | 0.04 | <0.04 | <0.04 | <0.04 | <0.04 | <0.04 | <0.04 |
| | C3 Fluorenes | ug/L | 0.04 | <0.04 | <0.04 | <0.04 | <0.04 | <0.04 | <0.04 |
| | C3 Naphthalenes | ug/L | 0.04 | <0.04 | <0.04 | <0.04 | <0.04 | <0.04 | <0.04 |
| | C3 Phenanthrenes/Anthracenes | ug/L | 0.04 | <0.04 | <0.04 | <0.04 | <0.04 | <0.04 | <0.04 |
| Speciated Metals | Chromium (hexavalent) | mg/L | 0.001 | - | - | - | - | - | - |
| Aluminum | Aluminum | mg/L | 0.003 | 0.158 | 0.113 - 0.641 | 0.184 - 0.213 | 0.0888 - 0.208 | 0.0903 | 0.0903 |
| Antimony | Antimony | mg/L | 0.0001 | <0.0001 | <0.0001 | <0.0001 | 0.00011 - 0.00012 | 0.00012 | 0.00012 |
| Arsenic | Arsenic | mg/L | 0.0001 | 0.00073 | 0.00065 - 0.00075 | 0.00058 - 0.00059 | 0.00056 - 0.00065 | 0.0006 | 0.0006 |
| Barium | Barium | mg/L | 0.00005 | 0.152 | 0.148 - 0.156 | 0.151 - 0.154 | 0.132 - 0.136 | 0.12 | 0.12 |
| Beryllium | Beryllium | mg/L | 0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 |
| Bismuth | Bismuth | mg/L | 0.00005 | <0.00005 | <0.00005 | <0.00005 | <0.00005 | <0.00005 | <0.00005 |
| Boron (hot water ext) | Boron (hot water ext) | mg/L | 0.01 | 0.051 | <0.01 - 0.05 | 0.052 - 0.053 | 0.046 - 0.049 | 0.045 | 0.045 |
| Cadmium | Cadmium | mg/L | 0.00001 | <0.00001 | <0.00001 - 0.00002 | <0.00001 | <0.00001 | 0.000012 | 0.000012 |
| Calcium | Calcium | mg/L | 0.02 | 82.5 | 65.5 - 85.4 | 87 - 90.4 | 83.1 - 85.9 | 74.9 | 74.9 |
| Chromium (III+VI) | Chromium (III+VI) | mg/L | 0.0001 | 0.00013 | 0.00016 - 0.0007 | 0.00014 - 0.00017 | 0.00014 - 0.00015 | 0.00021 | 0.00021 |
| Cobalt | Cobalt | mg/L | 0.0001 | 0.00016 | 0.00015 - 0.00035 | 0.00014 | 0.00014 | 0.00014 | 0.00014 |
| Copper | Copper | mg/L | 0.0001 | 0.00035 | 0.00036 - 0.00123 | 0.00046 - 0.00059 | 0.00055 - 0.0006 | 0.00056 | 0.00056 |
| Iron | Iron | mg/L | 0.01 | 0.184 | 0.18 - 0.84 | 0.171 - 0.18 | 0.15 - 0.187 | 0.159 | 0.159 |
| Lead | Lead | mg/L | 0.00005 | 0.000132 | 0.000125 - 0.00116 | 0.000091 - 0.000093 | 0.0001 - 0.000103 | 0.000113 | 0.000113 |
| Lithium | Lithium | mg/L | 0.005 | 0.0342 | 0.0066 - 0.0381 | 0.04 - 0.0415 | 0.0378 - 0.0389 | 0.0341 | 0.0341 |
| Magnesium | Magnesium | mg/L | 0.005 | 28.5 | 15.3 - 27 | 27.5 - 28 | 27.1 - 30 | 25 | 25 |
| Manganese | Manganese | mg/L | 0.00005 | 0.0932 | 0.0248 - 0.0861 | 0.084 - 0.0854 | 0.0813 - 0.0876 | 0.0882 | 0.0882 |
| Mercury | Mercury | ug/L | 0.0005 | 0.001 | 0.0008 - 0.00446 | 0.00053 - 0.00161 | 0.00065 - 0.00068 | 0.00111 | 0.00111 |
| Molybdenum | Molybdenum | mg/L | 0.00005 | 0.00291 | 0.000834 - 0.00262 | 0.00256 - 0.00266 | 0.00259 - 0.00268 | 0.00225 | 0.00225 |
| Nickel | Nickel | mg/L | 0.0001 | 0.0007 | 0.00065 - 0.00119 | 0.00067 | 0.00068 - 0.0007 | 0.0008 | 0.0008 |
| Phosphorus | Phosphorus | mg/L | 0.3 | <0.3 | <0.3 | <0.3 | <0.3 | <0.3 | <0.3 |
| Potassium | Potassium | mg/L | 0.05 | 2.14 | 0.936 - 2.09 | 2.05 - 2.12 | 1.95 - 2.09 | 2.07 | 2.07 |
| Selenium | Selenium | mg/L | 0.0001 | 0.00024 | 0.00014 - 0.00018 | 0.00018 | 0.00017 - 0.00021 | 0.00015 | 0.00015 |
| Silicon | Silicon | µg/L | 50 | 5860 | 5150 - 5720 | 5880 - 5910 | 5280 - 5850 | 4960 | 4960 |
| Silver | Silver | mg/L | 0.00001 | <0.00001 | <0.00001 - 0.000011 | <0.00001 | <0.00001 | <0.00001 | <0.00001 |
| Sodium | Sodium | mg/L | 0.05 | 101 | 15.3 - 94.1 | 91.6 - 94.2 | 94.1 - 101 | 85.2 | 85.2 |
| Strontium | Strontium | mg/L | 0.0001 | 0.912 | 0.364 - 0.981 | 1 - 1.06 | 0.941 - 0.968 | 0.87 | 0.87 |
| Thallium | Thallium | mg/L | 0.00005 | <0.00005 | <0.00005 | <0.00005 | <0.00005 | <0.00005 | <0.00005 |
| Tin | Tin | mg/L | 0.0001 | <0.0001 | <0.0001 | <0.0001 | <0.0001 | 0.0001 | 0.0001 |
| Titanium | Titanium | mg/L | 0.0003 | 0.00453 | 0.00314 - 0.0199 | 0.00267 - 0.00503 | 0.00222 - 0.00587 | 0.00248 | 0.00248 |
| Uranium | Uranium | µg/L | 0.01 | 4.42 | 1.33 - 4.29 | 4.02 - 4.1 | 4.21 - 4.6 | 4.01 | 4.01 |
| Vanadium | Vanadium | mg/L | 0.0001 | 0.00054 | 0.00052 - 0.00133 | 0.00058 - 0.00062 | 0.00055 - 0.00062 | 0.00049 | 0.00049 |
| Zinc | Zinc | mg/L | 0.003 | <0.003 | <0.003 - 0.0095 | <0.003 | <0.003 - 0.0068 | 0.0135 | 0.0135 |

Notes
MDL - Method Detection Limit
- "Sample not analyzed for this parameter"
< - "result is less than the MDL. No detectable concentration was measured"
* EPA 247.7/245.1

OBED MOUNTAIN MINE
TABLE 1 APETOWUN CREEK (APC)

| | | Location | APC | APC | APC | APC | APC |
|----------------------------|-----------------------------|----------|-----------|-----------|-----------|-----------|-----------|
| | | Date | 21-Nov-13 | 22-Nov-13 | 24-Nov-13 | 25-Nov-13 | 26-Nov-13 |
| Method Type | Chemical | Unit | MDL | | | | |
| Volatile Organic Compounds | 1,1,1-trichloroethane | µg/L | 1 | <1 | <1 | <1 | <1 |
| | 1,1,2,2-tetrachloroethane | µg/L | 20 | <20 | <20 | <20 | <20 |
| | 1,1,2-trichloroethane | µg/L | 2 | <2 | <2 | <2 | <2 |
| | 1,1-dichloroethane | µg/L | 1 | <1 | <1 | <1 | <1 |
| | 1,1-dichloroethene | µg/L | 1 | <1 | <1 | <1 | <1 |
| | 1,2,3-trichloropropane | µg/L | 5 | <5 | <5 | <5 | <5 |
| | 1,2-dibromoethane | µg/L | 1 | <1 | <1 | <1 | <1 |
| | 1,2-dichlorobenzene | µg/L | 1 | <1 | <1 | <1 | <1 |
| | 1,2-dichloroethane | µg/L | 2 | <2 | <2 | <2 | <2 |
| | 1,2-dichloropropane | µg/L | 2 | <2 | <2 | <2 | <2 |
| | 1,3-dichlorobenzene | µg/L | 1 | <1 | <1 | <1 | <1 |
| | 1,4-dichlorobenzene | µg/L | 1 | <1 | <1 | <1 | <1 |
| | Methyl Ethyl Ketone | µg/L | 100 | <100 | <100 | <100 | <100 |
| | 2-hexanone (MBK) | µg/L | 10 | <10 | <10 | <10 | <10 |
| | 4-Methyl-2-pentanone | µg/L | 10 | <10 | <10 | <10 | <10 |
| | Acetone | mg/L | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| | Acrolein | µg/L | 100 | <100 | <100 | <100 | <100 |
| | Acrylonitrile | µg/L | 100 | <100 | <100 | <100 | <100 |
| | Benzene | mg/L | 0.0005 | <0.001 | <0.001 | <0.001 | <0.001 |
| | Toluene | mg/L | 0.0005 | <0.001 | <0.001 | <0.001 | <0.001 |
| | Bromodichloromethane | µg/L | 1 | <1 | <1 | <1 | <1 |
| | Bromoforn | µg/L | 3 | <3 | <3 | <3 | <3 |
| | Bromomethane | µg/L | 10 | <10 | <10 | <10 | <10 |
| | Carbon disulfide | µg/L | 1 | <1 | <1 | <1 | <1 |
| | Carbon tetrachloride | µg/L | 1 | <1 | <1 | <1 | <1 |
| | Chlorobenzene | µg/L | 1 | <1 | <1 | <1 | <1 |
| | Chlorodibromomethane | µg/L | 3 | <3 | <3 | <3 | <3 |
| | Chloroethane | µg/L | 10 | <10 | <10 | <10 | <10 |
| | Chloroform | µg/L | 1 | <1 | <1 | <1 | <1 |
| | Chloromethane | µg/L | 10 | <10 | <10 | <10 | <10 |
| | cis-1,2-dichloroethene | µg/L | 1 | <1 | <1 | <1 | <1 |
| | cis-1,3-dichloropropene | µg/L | 1 | <1 | <1 | <1 | <1 |
| | cis-1,4-Dichloro-2-butene | µg/L | 10 | <10 | <10 | <10 | <10 |
| | Dibromomethane | µg/L | 3 | <3 | <3 | <3 | <3 |
| | Dichlorodifluoromethane | µg/L | 3 | <3 | <3 | <3 | <3 |
| | Dichloromethane | µg/L | 1 | <1 | <1 | <1 | <1 |
| | Ethanol | µg/L | 300 | <300 | <300 | <300 | <300 |
| | Ethyl methacrylate | µg/L | 10 | <10 | <10 | <10 | <10 |
| | Ethylbenzene | mg/L | 0.0005 | <0.001 | <0.001 | <0.001 | <0.001 |
| | Xylene (m & p) | mg/L | 0.0005 | <0.001 | <0.001 | <0.001 | <0.001 |
| | Xylene (o) | mg/L | 0.0005 | <0.001 | <0.001 | <0.001 | <0.001 |
| | Xylenes Total | µg/L | 0.71 | - | - | - | - |
| | Iodomethane | µg/L | 1 | <1 | <1 | <1 | <1 |
| | Styrene | µg/L | 1 | <1 | <1 | <1 | <1 |
| | Trichloroethene | µg/L | 1 | <1 | <1 | <1 | <1 |
| | Tetrachloroethene | µg/L | 1 | <1 | <1 | <1 | <1 |
| | trans-1,2-dichloroethene | µg/L | 1 | <1 | <1 | <1 | <1 |
| | trans-1,3-dichloropropene | µg/L | 1 | <1 | <1 | <1 | <1 |
| | trans-1,4-Dichloro-2-butene | µg/L | 10 | <10 | <10 | <10 | <10 |
| | Trichlorofluoromethane | µg/L | 1 | <1 | <1 | <1 | <1 |
| | Vinyl acetate | µg/L | 100 | <100 | <100 | <100 | <100 |
| | Vinyl chloride | µg/L | 2 | <2 | <2 | <2 | <2 |

Notes
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- "Sample not analyzed for this parameter"
< - "result is less than the MDL. No detectable concentration was measured"
* EPA 247.7/245.1