

OBED MOUNTAIN MINE  
SOIL/SEDIMENT TABLE  
TABLE 4 - APETOWUN CREEK HEADWATERS

Monitoring Zone  
Location  
Date  
Depth (m)  
Lab Report  
Easting (NAD83 Zone 11N)  
Northing (NAD83 Zone 11N)

| Headwaters |           |           |           |           |           |
|------------|-----------|-----------|-----------|-----------|-----------|
| ENV602     | ENV603    | ENV603S   | ENV604    | ENV605    | ENV624    |
| 10-Jan-14  | 09-Jan-14 | 09-Jan-14 | 09-Jan-14 | 09-Jan-14 | 10-Jan-14 |
| 0-0.1      | 0-0.2     | -0.1      | 0-0.2     | 0-0.2     | 0-0.11    |
| L1412224   | L1412224  | L1412224  | L1412224  | L1412224  | L1412224  |
| 471327     | 471249    | 471249    | 471464    | 471606    | 470959    |
| 5938723    | 5938618   | 5938618   | 5938635   | 5938561   | 5938449   |

| Parameter                         | Unit         | MDL   | AB Tier 1,<br>Natural Area<br>(Fine Soil) | CSQG FW<br>Sediment<br>ISQG | CSQG FW<br>Sediment<br>PEL |                    |                    |                    |                    |                    |                    |
|-----------------------------------|--------------|-------|---|-----------------------------|----------------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|
| <b>Hydrocarbons</b>               |              |       |   |                             |                            |                    |                    |                    |                    |                    |                    |
| F2 (C10-C16 Hydrocarbons)         | mg/kg        | 20    |   |                             |                            | 31                 | <71                | 93                 | <20                | <20                | <20                |
| Total Hydrocarbons (C6-C50)       | mg/kg        | 20    |   |                             |                            | 984                | 103                | 622                | 37                 | 22                 | 211                |
| Chrom. to baseline at nC50        | -            |       |   |                             |                            | 0                  | 1                  | 1                  | 1                  | 1                  | 1                  |
| Gravimetric Heavy Hydrocarbons    | mg/kg        | 500   |   |                             |                            | 1790               | 670                | 520                | <500               | <500               | <500               |
| TEH: (C16-C34)                    | mg/kg        | 20    |   |                             |                            | 478                | 103                | 453                | 37                 | 22                 | 94                 |
| TEH: (C34-C50)                    | mg/kg        | 20    |   |                             |                            | 475                | <71                | 76                 | <20                | <20                | 117                |
| TVH                               | mg/kg        | 10    |   |                             |                            | <10                | <50                | <20                | <10                | <10                | <10                |
| TVH: (C6-C10 / BTEX CORRECTED)    | mg/kg        | 10    |   |                             |                            | <10                | <50                | <20                | <10                | <10                | <10                |
| <b>Leachable Metals</b>           |              |       |   |                             |                            |                    |                    |                    |                    |                    |                    |
| Barium, extractable               | mg/kg        | 5     |   |                             |                            | 65                 | 88                 | 32.9               | 25.7               | <5                 | 62                 |
| Boron (B), Hot Water Ext.         | mg/kg        | 0.1   |   |                             |                            | 1.96               | <0.5               | 0.88               | 0.27               | 0.37               | 1.15               |
| <b>Metals</b>                     |              |       |   |                             |                            |                    |                    |                    |                    |                    |                    |
| Aluminium                         | mg/kg        | 50    |   |                             |                            | 3290               | 13,000             | 8400               | 7080               | 6620               | 3860               |
| Antimony                          | mg/kg        | 0.1   | 20  |                             |                            | 0.17               | 0.34               | 0.38               | 0.27               | 0.41               | 0.2                |
| Arsenic                           | mg/kg        | 0.1   | 17  | 5.9                         | 17                         | 1.6                | 2.43               | 7.71               | 6.33               | 6.63               | 1.83               |
| Barium                            | mg/kg        | 0.5   | 750                                       |                             |                            | 161                | 462                | 734                | 145                | 173                | 222                |
| Beryllium                         | mg/kg        | 0.2   | 5   |                             |                            | <0.2               | 0.75               | 0.53               | 0.37               | 0.42               | 0.22               |
| Bismuth                           | mg/kg        | 0.2   |   |                             |                            | <0.2               | <0.2               | <0.2               | <0.2               | <0.2               | <0.2               |
| Cadmium                           | mg/kg        | 0.1   | 3.8                                       | 0.6                         | 3.5                        | 0.64               | 0.74               | 0.24               | 0.16               | 0.17               | 0.51               |
| Calcium                           | mg/kg        | 100   |   |                             |                            | 12,000             | 39,000             | 15,500             | 5220               | 8070               | 13,400             |
| Chromium (III+VI)                 | mg/kg        | 0.5   | 64  | 37.3                        | 90                         | 5.98               | 9.15               | 10.2               | 13.3               | 12.7               | 10.1               |
| Cobalt                            | mg/kg        | 0.1   | 20  |                             |                            | 2.34               | 5.07               | 5.59               | 6.26               | 7.28               | 2.87               |
| Copper                            | mg/kg        | 0.5   | 63  | 35.7                        | 197                        | 9.27               | 23.8               | 11.6               | 7.7                | 8.19               | 6.87               |
| Iron                              | mg/kg        | 50    |   |                             |                            | 5150               | 11,500             | 11,000             | 18,200             | 17,000             | 5490               |
| Lead                              | mg/kg        | 0.5   | 70  | 35                          | 91.3                       | 6.98               | 4.85               | 11.7               | 5.87               | 6.55               | 6.85               |
| Lithium                           | mg/kg        | 0.5   |   |                             |                            | 2.61               | 4.92               | 7.1                | 7.91               | 7.25               | 2.88               |
| Magnesium                         | mg/kg        | 20    |   |                             |                            | 1770               | 2470               | 4010               | 2940               | 3100               | 1700               |
| Manganese                         | mg/kg        | 1     |   |                             |                            | 841                | 922                | 311                | 600                | 493                | 496                |
| Mercury                           | mg/kg        | 0.005 | 12  | 0.17                        | 0.486                      | 0.103              | 0.158              | 0.0693             | 0.0189             | 0.0197             | 0.0702             |
| Molybdenum                        | mg/kg        | 0.1   | 4   |                             |                            | 0.7                | 0.92               | 1.11               | 0.77               | 0.87               | 0.73               |
| Nickel                            | mg/kg        | 0.5   | 50  |                             |                            | 5.94               | 20.4               | 14.5               | 16.2               | 19.4               | 9.24               |
| Phosphorus                        | mg/kg        | 50    |   |                             |                            | 1050               | 1860               | 481                | 416                | 660                | 831                |
| Potassium                         | mg/kg        | 50    |   |                             |                            | 1390               | 327                | 769                | 579                | 522                | 1020               |
| Selenium                          | mg/kg        | 0.2   | 1   |                             |                            | <0.2               | 2.04               | 0.42               | <0.2               | <0.2               | <0.2               |
| Silver                            | mg/kg        | 0.2   | 20  |                             |                            | <0.2               | 0.44               | <0.2               | <0.2               | <0.2               | <0.2               |
| Sodium                            | mg/kg        | 100   |   |                             |                            | <100               | 230                | 640                | 120                | 180                | <100               |
| Strontium                         | mg/kg        | 1     |   |                             |                            | 33.5               | 90.5               | 149                | 34.1               | 52.7               | 51.4               |
| Thallium                          | mg/kg        | 0.05  | 1   |                             |                            | 0.062              | 0.1                | 0.181              | 0.073              | 0.092              | 0.077              |
| Tin                               | mg/kg        | 2     | 5   |                             |                            | <2                 | <2                 | <2                 | <2                 | <2                 | <2                 |
| Titanium                          | mg/kg        | 1     |   |                             |                            | 40.9               | 56.1               | 199                | 56                 | 98.1               | 37.3               |
| Uranium                           | mg/kg        | 0.05  | 33  |                             |                            | 0.349              | 4.22               | 1.86               | 0.569              | 0.853              | 0.51               |
| Vanadium                          | mg/kg        | 0.2   | 130                                       |                             |                            | 8.11               | 12.9               | 17.5               | 19.6               | 21.1               | 8.7                |
| Zinc                              | mg/kg        | 5     | 200                                       | 123                         | 315                        | 59.7               | 15.2               | 53.1               | 39.1               | 36.6               | 53.9               |
| <b>Organic / Inorganic Carbon</b> |              |       |   |                             |                            |                    |                    |                    |                    |                    |                    |
| CaCO3 Equivalent                  | %            | 0.8   |   |                             |                            | 1.58               | 0.99               | 2.36               | 0.93               | 2.15               | 1.07               |
| Inorganic Carbon                  | mg/kg        | 0.1   |   |                             |                            | 0.19               | 0.12               | 0.28               | 0.11               | 0.26               | 0.13               |
| TOC                               | % dry weight | 0.1   |   |                             |                            | 34.8 <sup>#1</sup> | 31.4 <sup>#1</sup> | 16.2 <sup>#1</sup> | 1.35 <sup>#1</sup> | 3.71 <sup>#1</sup> | 23.7 <sup>#1</sup> |
| Total Carbon by Combustion        | %            | 0.1   |   |                             |                            | 35                 | 31.5               | 16.5               | 1.5                | 4                  | 23.8               |
| <b>Particle Size</b>              |              |       |   |                             |                            |                    |                    |                    |                    |                    |                    |
| Soil Particle Size (>75 um)       | % by weight  | 1     |   |                             |                            | 70.3               | 18.3               | 28.5               | 73.1               | 76.1               | 55.9               |
| <b>Physical Tests</b>             |              |       |   |                             |                            |                    |                    |                    |                    |                    |                    |
| Moisture                          | %            | 0.1   |   |                             |                            | 38.7               | 79.4               | 55.6               | 33.7               | 16.3               | 36.6               |

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| Headwaters |           |           |           |           |           |
|------------|-----------|-----------|-----------|-----------|-----------|
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| 10-Jan-14  | 09-Jan-14 | 09-Jan-14 | 09-Jan-14 | 09-Jan-14 | 10-Jan-14 |
| 0-0.1      | 0-0.2     | -0.1      | 0-0.2     | 0-0.2     | 0-0.11    |
| L1412224   | L1412224  | L1412224  | L1412224  | L1412224  | L1412224  |
| 471327     | 471249    | 471249    | 471464    | 471606    | 470959    |
| 5938723    | 5938618   | 5938618   | 5938635   | 5938561   | 5938449   |

| Parameter                               | Unit  | MDL   | AB Tier 1, Natural Area (Fine Soil) | CSQG FW Sediment ISQG | CSQG FW Sediment PEL | ENV602             | ENV603             | ENV603S            | ENV604             | ENV605             | ENV624             |
|---|-------|-------|-------------------------------------|-----------------------|----------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|
| <b>Polycyclic Aromatic Hydrocarbons</b> |       |       |                                     |                       |                      |                    |                    |                    |                    |                    |                    |
| Benzofluoranthene                       | mg/kg | 0.005 | 6.2                                 |                       |                      | <0.05              | <0.007             | 0.0208             | <0.005             | <0.005             | <0.005             |
| C4 Benzantracenes/Chrysenes             | mg/kg | 0.04  |                                     |                       |                      | <0.4               | <0.056             | <0.04              | <0.04              | <0.04              | <0.04              |
| C4 Dibenzothiophenes                    | mg/kg | 0.04  |                                     |                       |                      | <0.4               | <0.056             | 0.041              | <0.04              | <0.04              | <0.04              |
| C4 Fluoranthenes/Pyrenes                | mg/kg | 0.04  |                                     |                       |                      | <0.4               | <0.056             | <0.04              | <0.04              | <0.04              | <0.04              |
| C4 Naphthalenes                         | mg/kg | 0.04  |                                     |                       |                      | <0.4               | <0.056             | 1.09               | 0.047              | 0.263              | 0.114              |
| C4 Phenanthrenes/Anthracenes            | mg/kg | 0.04  |                                     |                       |                      | 1.16               | 0.199              | 8.5                | 0.338              | 2.49               | 0.696              |
| Biphenyl                                | mg/kg | 0.01  |                                     |                       |                      | <0.1               | <0.014             | <0.01              | <0.01              | <0.01              | <0.01              |
| 1-Methylnaphthalene                     | mg/kg | 0.01  |                                     |                       |                      | <0.1               | <0.014             | 0.194              | <0.01              | 0.044              | 0.025              |
| 2-methylnaphthalene                     | mg/kg | 0.005 |                                     | 0.0202                | 0.201                | <0.05              | 0.0137             | 0.134              | 0.0072             | 0.031              | 0.0219             |
| Acenaphthene                            | mg/kg | 0.005 | 0.32                                | 0.00671               | 0.0899               | <0.05              | <0.007             | 0.0177             | <0.005             | <0.005             | <0.005             |
| Acenaphthylene                          | mg/kg | 0.005 | 5                                   | 0.00587               | 0.128                | <0.05              | <0.007             | <0.005             | <0.005             | <0.005             | <0.005             |
| Anthracene                              | mg/kg | 0.004 | 0.0046                              | 0.00469               | 0.245                | <0.04              | <0.056             | <0.004             | <0.004             | <0.004             | <0.004             |
| Benz(a)anthracene                       | mg/kg | 0.005 | 0.07                                | 0.0317                | 0.385                | <0.05              | <0.007             | 0.0312             | <0.005             | 0.0092             | <0.005             |
| Benzo(a)pyrene                          | mg/kg | 0.005 | 0.6                                 | 0.0319                | 0.782                | <0.05              | <0.007             | <0.005             | <0.005             | <0.005             | <0.005             |
| Acridine                                | mg/kg | 0.005 |                                     |                       |                      | <0.05              | <0.007             | <0.005             | <0.005             | <0.005             | <0.005             |
| Benzo(e)pyrene                          | mg/kg | 0.01  |                                     |                       |                      | <0.1               | <0.014             | <0.01              | <0.01              | <0.01              | <0.01              |
| Benzo(g,h,i)perylene                    | mg/kg | 0.005 |                                     |                       |                      | <0.05              | <0.007             | <0.005             | <0.005             | <0.005             | <0.005             |
| Benzo(k)fluoranthene                    | mg/kg | 0.005 | 6.2                                 |                       |                      | <0.05              | <0.007             | <0.005             | <0.005             | <0.005             | <0.005             |
| C1 Acenaphthenes                        | mg/kg | 0.04  |                                     |                       |                      | <0.4               | <0.056             | 0.049              | <0.04              | <0.04              | <0.04              |
| C1 Benz(a)Anthracenes/Chrysenes         | mg/kg | 0.04  |                                     |                       |                      | <0.4               | <0.056             | <0.04              | <0.04              | <0.04              | <0.04              |
| C1 Benzofluoranthenes/Benzopyrenes      | mg/kg | 0.04  |                                     |                       |                      | <0.4               | <0.056             | 0.042              | <0.04              | <0.04              | <0.04              |
| C1 Biphenyls                            | mg/kg | 0.04  |                                     |                       |                      | <0.4               | <0.056             | <0.04              | <0.04              | <0.04              | <0.04              |
| C1 Dibenzothiophenes                    | mg/kg | 0.04  |                                     |                       |                      | <0.4               | <0.056             | <0.04              | <0.04              | <0.04              | <0.04              |
| Chrysene                                | mg/kg | 0.005 | 6.2                                 | 0.0571                | 0.862                | <0.05              | <0.007             | 0.0156             | <0.005             | <0.005             | <0.005             |
| C1 Fluoranthenes/Pyrenes                | mg/kg | 0.04  |                                     |                       |                      | <0.4               | <0.056             | 0.066              | <0.04              | <0.04              | <0.04              |
| C1 Fluorenes                            | mg/kg | 0.04  |                                     |                       |                      | <0.4               | <0.056             | 0.062              | <0.04              | <0.04              | <0.04              |
| C1 Phenanthrenes/Anthracenes            | mg/kg | 0.04  |                                     |                       |                      | <0.4               | <0.056             | 0.225              | <0.04              | 0.063              | <0.04              |
| Dibenz(a,h)anthracene                   | mg/kg | 0.005 | 7.4                                 | 0.00622               | 0.135                | <0.05              | <0.007             | <0.005             | <0.005             | <0.005             | <0.005             |
| Dibenzothiophene                        | mg/kg | 0.01  |                                     |                       |                      | <0.1               | <0.014             | <0.01              | <0.01              | <0.01              | <0.01              |
| Fluoranthene                            | mg/kg | 0.005 | 0.032                               | 0.111                 | 2.355                | <0.05              | <0.007             | 0.0551             | <0.005             | 0.0154             | <0.005             |
| Fluorene                                | mg/kg | 0.005 | 0.29                                | 0.0212                | 0.144                | <0.05              | <0.007             | <0.005             | <0.005             | <0.005             | <0.005             |
| Indeno(1,2,3-c,d)pyrene                 | mg/kg | 0.005 |                                     |                       |                      | <0.05              | <0.007             | <0.005             | <0.005             | <0.005             | <0.005             |
| Naphthalene                             | mg/kg | 0.005 | 0.016                               | 0.0346                | 0.391                | <0.05              | 0.0097             | 0.0614             | <0.005             | <0.005             | <0.005             |
| Perylene                                | mg/kg | 0.01  |                                     |                       |                      | <0.1               | <0.014             | 0.083              | 0.015              | 0.027              | <0.01              |
| Phenanthrene                            | mg/kg | 0.005 | 0.051                               | 0.0419                | 0.515                | <0.05              | 0.0143             | 0.0772             | 0.0054             | 0.0211             | 0.0138             |
| Pyrene                                  | mg/kg | 0.005 | 0.034                               | 0.053                 | 0.875                | <0.05              | <0.007             | 0.0597             | 0.0055             | 0.0179             | <0.005             |
| Quinoline                               | mg/kg | 0.005 |                                     |                       |                      | <0.05              | <0.007             | <0.005             | <0.005             | <0.005             | <0.005             |
| Retene                                  | mg/kg | 0.01  |                                     |                       |                      | 1.16               | 0.2                | 8.5                | 0.339              | 2.49               | 0.75               |
| C2 Benzofluoranthenes/Benzopyrenes      | mg/kg | 0.04  |                                     |                       |                      | <0.4               | <0.056             | <0.04              | <0.04              | <0.04              | <0.04              |
| C2 Biphenyls                            | mg/kg | 0.04  |                                     |                       |                      | <0.4               | <0.056             | <0.04              | <0.04              | <0.04              | <0.04              |
| C2 Dibenzothiophenes                    | mg/kg | 0.04  |                                     |                       |                      | <0.4               | <0.056             | 0.044              | <0.04              | <0.04              | <0.04              |
| C2 Fluoranthenes/Pyrenes                | mg/kg | 0.04  |                                     |                       |                      | <0.4               | <0.056             | 0.072              | <0.04              | <0.04              | <0.04              |
| C2 Naphthalenes                         | mg/kg | 0.04  |                                     |                       |                      | <0.4               | <0.056             | 0.866              | 0.053              | 0.215              | 0.11               |
| C2 Phenanthrenes/Anthracenes            | mg/kg | 0.04  |                                     |                       |                      | <0.4               | <0.056             | 0.045              | <0.04              | <0.04              | 0.043              |
| C2 Fluorenes                            | mg/kg | 0.04  |                                     |                       |                      | <0.4               | <0.056             | 0.053              | <0.04              | <0.04              | <0.04              |
| C2 subd B(a)Anthracenes/Chrysenes       | mg/kg | 0.04  |                                     |                       |                      | <0.4               | <0.056             | <0.04              | <0.04              | <0.04              | <0.04              |
| C3 Benzantracenes/Chrysenes             | mg/kg | 0.04  |                                     |                       |                      | <0.4               | <0.056             | <0.04              | <0.04              | <0.04              | <0.04              |
| C3 Dibenzothiophenes                    | mg/kg | 0.04  |                                     |                       |                      | <0.4               | <0.056             | <0.04              | <0.04              | <0.04              | <0.04              |
| C3 Fluoranthenes/Pyrenes                | mg/kg | 0.04  |                                     |                       |                      | <0.4               | <0.056             | <0.04              | <0.04              | <0.04              | <0.04              |
| C3 Fluorenes                            | mg/kg | 0.04  |                                     |                       |                      | <0.4               | <0.056             | 0.067              | <0.04              | <0.04              | <0.04              |
| C3 Naphthalenes                         | mg/kg | 0.04  |                                     |                       |                      | <0.4               | <0.056             | 0.76               | <0.04              | 0.174              | 0.091              |
| C3 Phenanthrenes/Anthracenes            | mg/kg | 0.04  |                                     |                       |                      | <0.4               | <0.056             | <0.04              | <0.04              | 0.061              | <0.04              |
| <b>Saturated Paste Extractables</b>     |       |       |                                     |                       |                      |                    |                    |                    |                    |                    |                    |
| Sulfur (as SO4)                         | mg/kg | 9.5   |                                     |                       |                      | 230 <sup>#1</sup>  | 136 <sup>#1</sup>  | 184 <sup>#1</sup>  | 73 <sup>#1</sup>   | 73.7 <sup>#1</sup> | 180 <sup>#1</sup>  |
| Calcium                                 | mg/kg | 1.6   |                                     |                       |                      | 398 <sup>#1</sup>  | 103 <sup>#1</sup>  | 80.6 <sup>#1</sup> | 99.5 <sup>#1</sup> | 23.9 <sup>#1</sup> | 369 <sup>#1</sup>  |
| Chloride                                | mg/kg | 6.4   |                                     |                       |                      | 230 <sup>#1</sup>  | <42 <sup>#1</sup>  | <12 <sup>#1</sup>  | 11 <sup>#1</sup>   | <6.4 <sup>#1</sup> | 146 <sup>#1</sup>  |
| Saturation Percentage                   | %     | 1     |                                     |                       |                      | 558                | 212                | 61.8               | 49.9               | 31.8               | 352                |
| Electrical Conductivity (lab)           | dS/m  | 0.01  |                                     |                       |                      | 0.547              | 0.312              | 1.49               | 1.48               | 0.948              | 0.655              |
| Magnesium                               | mg/kg | 0.95  |                                     |                       |                      | 94 <sup>#1</sup>   | 16.9 <sup>#1</sup> | 18.1 <sup>#1</sup> | 22 <sup>#1</sup>   | 4.6 <sup>#1</sup>  | 77 <sup>#1</sup>   |
| pH (Lab)                                | pH    | 0.1   | 6-8.5                               |                       |                      | 5.09               | 6.14               | 7.21               | 6.61               | 7.28               | 4.91               |
| Potassium                               | mg/kg | 0.64  |                                     |                       |                      | 371 <sup>#1</sup>  | <4.2 <sup>#1</sup> | 6 <sup>#1</sup>    | 7.7 <sup>#1</sup>  | 1.6 <sup>#1</sup>  | 251 <sup>#1</sup>  |
| Sodium                                  | mg/kg | 0.64  |                                     |                       |                      | 16 <sup>#1</sup>   | 34.9 <sup>#1</sup> | 109 <sup>#1</sup>  | 47.2 <sup>#1</sup> | 34.4 <sup>#1</sup> | 11.7 <sup>#1</sup> |
| Sodium Adsorption Ratio                 | ---   | 0.1   |                                     |                       |                      | <0.1 <sup>#1</sup> | 0.58 <sup>#1</sup> | 3.64 <sup>#1</sup> | 1.58 <sup>#1</sup> | 2.99 <sup>#1</sup> | <0.1 <sup>#1</sup> |
| <b>Speciated Metals</b>                 |       |       |                                     |                       |                      |                    |                    |                    |                    |                    |                    |
| Chromium (hexavalent)                   | mg/kg | 0.1   | 0.4                                 |                       |                      | <1                 | <1                 | <0.1               | <0.1               | <0.1               | <1                 |
| <b>Volatile Organic Compounds</b>       |       |       |                                     |                       |                      |                    |                    |                    |                    |                    |                    |
| Benzene                                 | mg/kg | 0.005 | 0.046                               |                       |                      | <0.005             | <0.025             | <0.01              | <0.005             | <0.005             | <0.005             |
| Toluene                                 | mg/kg | 0.05  | 0.52                                |                       |                      | <0.05              | <0.25              | <0.1               | <0.05              | <0.05              | <0.05              |
| Ethylbenzene                            | mg/kg | 0.01  | 0.11                                |                       |                      | <0.015             | <0.075             | <0.03              | <0.015             | <0.015             | <0.015             |
| Xylene (m & p)                          | mg/kg | 0.05  |                                     |                       |                      | <0.05              | <0.25              | <0.1               | <0.05              | <0.05              | <0.05              |
| Xylene (o)                              | mg/kg | 0.05  |                                     |                       |                      | <0.05              | <0.25              | <0.1               | <0.05              | <0.05              | <0.05              |
| Xylenes Total                           | mg/kg | 0.1   | 15                                  |                       |                      | <0.1 <sup>#1</sup> | <0.5 <sup>#1</sup> | <0.2 <sup>#1</sup> | <0.1 <sup>#1</sup> | <0.1 <sup>#1</sup> | <0.1 <sup>#1</sup> |
| Styrene                                 | mg/kg | 0.05  | 0.68                                |                       |                      | <0.05              | <0.25              | <0.1               | <0.05              | <0.05              | <0.05              |

Comments  
#1 CALC

OBED MOUNTAIN MINE  
SOIL/SEDIMENT TABLE  
TABLE 4 - APETOWUN CREEK HEADWATERS

Monitoring Zone  
Location  
Date  
Depth (m)  
Lab Report  
Easting (NAD83 Zone 11N)  
Northing (NAD83 Zone 11N)

| ENV625    | ENV626    | ENV626S   | ENV627    | ENV628    | ENV629    |
|-----------|-----------|-----------|-----------|-----------|-----------|
| 09-Jan-14 | 09-Jan-14 | 09-Jan-14 | 09-Jan-14 | 09-Jan-14 | 09-Jan-14 |
| 0-0.1     | 0-0.2     | -0.1      | 0-0.2     | 0-0.2     | 0-0.2     |
| L1412224  | L1412224  | L1412224  | L1412224  | L1412224  | L1412224  |
| 471129    | 471018    | 471018    | 471075    | 471130    | 471015    |
| 5938826   | 5938565   | 5938565   | 5938743   | 5938592   | 5938628   |

| Parameter                         | Unit         | MDL   | AB Tier 1,<br>Natural Area<br>(Fine Soil) | CSQG FW<br>Sediment<br>ISQG | CSQG FW<br>Sediment<br>PEL |                    |                    |                    |                    |                    |                    |
|-----------------------------------|--------------|-------|---|-----------------------------|----------------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|
| <b>Hydrocarbons</b>               |              |       |   |                             |                            |                    |                    |                    |                    |                    |                    |
| F2 (C10-C16 Hydrocarbons)         | mg/kg        | 20    |   |                             |                            | <20                | <91                | <20                | <20                | <20                | <60                |
| Total Hydrocarbons (C6-C50)       | mg/kg        | 20    |   |                             |                            | 141                | 1070               | 29                 | <20                | <20                | 405                |
| Chrom. to baseline at nC50        | -            |       |   |                             |                            | 1                  | 0                  | 1                  | 1                  | 1                  | 1                  |
| Gravimetric Heavy Hydrocarbons    | mg/kg        | 500   |   |                             |                            | <500               | 3230               | <500               | <500               | <500               | 1020               |
| TEH: (C16-C34)                    | mg/kg        | 20    |   |                             |                            | 74                 | 574                | 29                 | <20                | <20                | 250                |
| TEH: (C34-C50)                    | mg/kg        | 20    |   |                             |                            | 67                 | 499                | <20                | <20                | <20                | 155                |
| TVH                               | mg/kg        | 10    |   |                             |                            | <10                | <60                | <10                | <10                | <10                | <50                |
| TVH: (C6-C10 / BTEX CORRECTED)    | mg/kg        | 10    |   |                             |                            | <10                | <60                | <10                | <10                | <10                | <50                |
| <b>Leachable Metals</b>           |              |       |   |                             |                            |                    |                    |                    |                    |                    |                    |
| Barium, extractable               | mg/kg        | 5     |   |                             |                            | 51.3               | 95                 | 31.7               | 5.4                | 26.7               | 90                 |
| Boron (B), Hot Water Ext.         | mg/kg        | 0.1   |   |                             |                            | 0.78               | 3.56               | 0.76               | <0.1               | 0.14               | 1.27               |
| <b>Metals</b>                     |              |       |   |                             |                            |                    |                    |                    |                    |                    |                    |
| Aluminium                         | mg/kg        | 50    |   |                             |                            | 6980               | 5960               | 5890               | 12,900             | 12,400             | 3290               |
| Antimony                          | mg/kg        | 0.1   | 20  |                             |                            | 0.19               | 0.33 - 0.64        | 0.34               | 0.44               | 0.23               | 0.37 - 0.41        |
| Arsenic                           | mg/kg        | 0.1   | 17  | 5.9                         | 17                         | 2.86               | 10.4 - 18.4        | 6.4                | 8.99               | 5.63               | 17.4 - 693         |
| Barium                            | mg/kg        | 0.5   | 750                                       |                             |                            | 156                | 99.5 - 351         | 351                | 69                 | 111                | 251 - 538          |
| Beryllium                         | mg/kg        | 0.2   | 5   |                             |                            | 0.24               | <1 - 0.41          | 0.44               | 0.33               | 0.44               | <1 - 0.53          |
| Bismuth                           | mg/kg        | 0.2   |   |                             |                            | <0.2               | <0.2               | <0.2               | <0.2               | <0.2               | <0.2               |
| Cadmium                           | mg/kg        | 0.1   | 3.8                                       | 0.6                         | 3.5                        | 0.44               | 0.7 - 1.24         | 0.34               | 0.15               | <0.1               | 0.69 - 0.79        |
| Calcium                           | mg/kg        | 100   |   |                             |                            | 7740               | 32,600             | 11,200             | 1970               | 2200               | 12,100             |
| Chromium (III+VI)                 | mg/kg        | 0.5   | 64  | 37.3                        | 90                         | 9.02               | 7.64 - 9.65        | 10.9               | 16.6               | 17.2               | 6.44 - 8           |
| Cobalt                            | mg/kg        | 0.1   | 20  |                             |                            | 4.11               | 4.35 - 6.2         | 5.38               | 5.07               | 7.3                | 6.3 - 10.8         |
| Copper                            | mg/kg        | 0.5   | 63  | 35.7                        | 197                        | 7.82               | 13.4 - 14.8        | 11                 | 7.83               | 8.97               | 7.74 - 13.1        |
| Iron                              | mg/kg        | 50    |   |                             |                            | 9600               | 21,300             | 11,400             | 22,100             | 18,900             | 407,000            |
| Lead                              | mg/kg        | 0.5   | 70  | 35                          | 91.3                       | 8.4                | <5 - 4.1           | 7.98               | 8.6                | 10.1               | <5 - 1.13          |
| Lithium                           | mg/kg        | 0.5   |   |                             |                            | 6.14               | 4.33               | 5.86               | 18.9               | 13.1               | 0.99               |
| Magnesium                         | mg/kg        | 20    |   |                             |                            | 2170               | 3770               | 2930               | 2660               | 3200               | 964                |
| Manganese                         | mg/kg        | 1     |   |                             |                            | 612                | 676                | 375                | 160                | 322                | 1690               |
| Mercury                           | mg/kg        | 0.005 | 12  | 0.17                        | 0.486                      | 0.0656             | 0.074 - 0.092      | 0.0346             | 0.0099             | 0.0187             | <0.05 - 0.074      |
| Molybdenum                        | mg/kg        | 0.1   | 4   |                             |                            | 0.82               | 4.8 - 5.74         | 0.88               | 1.26               | 0.79               | 4.6 - 43.3         |
| Nickel                            | mg/kg        | 0.5   | 50  |                             |                            | 8.74               | 15.7 - 15.9        | 15.5               | 13.7               | 16                 | 16 - 18.5          |
| Phosphorus                        | mg/kg        | 50    |   |                             |                            | 749                | 1360               | 398                | 603                | 438                | 1790               |
| Potassium                         | mg/kg        | 50    |   |                             |                            | 1210               | 344                | 526                | 506                | 668                | 113                |
| Selenium                          | mg/kg        | 0.2   | 1   |                             |                            | <0.2               | 1.17 - 1.87        | 0.28               | <0.2               | <0.2               | 0.84 - 1.3         |
| Silver                            | mg/kg        | 0.2   | 20  |                             |                            | <0.2               | <0.2               | <0.2               | <0.2               | <0.2               | <0.2               |
| Sodium                            | mg/kg        | 100   |   |                             |                            | <100               | 750                | 280                | <100               | <100               | 270                |
| Strontium                         | mg/kg        | 1     |   |                             |                            | 26.6               | 387                | 82.1               | 8.1                | 12.1               | 98                 |
| Thallium                          | mg/kg        | 0.05  | 1   |                             |                            | 0.072              | <0.5 - 0.08        | 0.096              | 0.104              | <0.05              | <0.05              |
| Tin                               | mg/kg        | 2     | 5   |                             |                            | <2                 | <2                 | <2                 | <2                 | <2                 | <2                 |
| Titanium                          | mg/kg        | 1     |   |                             |                            | 38.7               | 25.1               | 121                | 49.9               | 68.7               | 26.1               |
| Uranium                           | mg/kg        | 0.05  | 33  |                             |                            | 0.383              | 4.3 - 7.18         | 0.962              | 0.33               | 0.481              | <2 - 4.3           |
| Vanadium                          | mg/kg        | 0.2   | 130                                       |                             |                            | 15.9               | 14 - 17.3          | 18.4               | 30.8               | 28.8               | 14.2 - 17.4        |
| Zinc                              | mg/kg        | 5     | 200                                       | 123                         | 315                        | 40.6               | 37 - 65.8          | 40.1               | 49.8               | 45.8               | 35 - 181           |
| <b>Organic / Inorganic Carbon</b> |              |       |   |                             |                            |                    |                    |                    |                    |                    |                    |
| CaCO3 Equivalent                  | %            | 0.8   |   |                             |                            | 1.8                | 1.64               | 2.49               | <0.8               | 1.05               | 1.47               |
| Inorganic Carbon                  | mg/kg        | 0.1   |   |                             |                            | 0.22               | 0.2                | 0.3                | <0.1               | 0.13               | 0.18               |
| TOC                               | % dry weight | 0.1   |   |                             |                            | 26.2 <sup>#1</sup> | 39.3 <sup>#1</sup> | 1.04 <sup>#1</sup> | 1.36 <sup>#1</sup> | 3.88 <sup>#1</sup> | 19.8 <sup>#1</sup> |
| Total Carbon by Combustion        | %            | 0.1   |   |                             |                            | 26.4               | 39.5               | 1.3                | 1.4                | 4                  | 19.9               |
| <b>Particle Size</b>              |              |       |   |                             |                            |                    |                    |                    |                    |                    |                    |
| Soil Particle Size (>75 um)       | % by weight  | 1     |   |                             |                            | 54.5               | 32.6               | 60.4               | 37.6               | 23.6               | 57.6               |
| <b>Physical Tests</b>             |              |       |   |                             |                            |                    |                    |                    |                    |                    |                    |
| Moisture                          | %            | 0.1   |   |                             |                            | 29.4               | 82.5               | 21.6               | 13.1               | 19.8               | 78.5               |

OBED MOUNTAIN MINE  
SOIL/SEDIMENT TABLE  
TABLE 4 - APETOWUN CREEK HEADWATERS

Monitoring Zone  
Location  
Date  
Depth (m)  
Lab Report  
Easting (NAD83 Zone 11N)  
Northing (NAD83 Zone 11N)

| ENV625    | ENV626    | ENV626S   | ENV627    | ENV628    | ENV629    |
|-----------|-----------|-----------|-----------|-----------|-----------|
| 09-Jan-14 | 09-Jan-14 | 09-Jan-14 | 09-Jan-14 | 09-Jan-14 | 09-Jan-14 |
| 0-0.1     | 0-0.2     | -0.1      | 0-0.2     | 0-0.2     | 0-0.2     |
| L1412224  | L1412224  | L1412224  | L1412224  | L1412224  | L1412224  |
| 471129    | 471018    | 471018    | 471075    | 471130    | 471015    |
| 5938826   | 5938565   | 5938565   | 5938743   | 5938592   | 5938628   |

| Parameter                               | Unit  | MDL   | AB Tier 1, Natural Area (Fine Soil) | CSQG FW Sediment ISQG | CSQG FW Sediment PEL |                    |                    |                    |                     |                    |
|---|-------|-------|-------------------------------------|-----------------------|----------------------|--------------------|--------------------|--------------------|---------------------|--------------------|
| <b>Polycyclic Aromatic Hydrocarbons</b> |       |       |                                     |                       |                      |                    |                    |                    |                     |                    |
| Benzo(b)fluoranthene                    | mg/kg | 0.005 | 6.2                                 |                       |                      | <0.005             | <0.008             | <0.005             | <0.005              | <0.007             |
| C4 Benzantracenes/Chrysenes             | mg/kg | 0.04  |                                     |                       |                      | <0.04              | <0.064             | <0.04              | <0.04               | <0.056             |
| C4 Dibenzothiophenes                    | mg/kg | 0.04  |                                     |                       |                      | <0.04              | <0.064             | <0.04              | <0.04               | <0.056             |
| C4 Fluoranthenes/Pyrenes                | mg/kg | 0.04  |                                     |                       |                      | <0.04              | <0.064             | <0.04              | <0.04               | <0.056             |
| C4 Naphthalenes                         | mg/kg | 0.04  |                                     |                       |                      | 0.129              | 0.074              | 0.075              | <0.04               | <0.056             |
| C4 Phenanthrenes/Anthracenes            | mg/kg | 0.04  |                                     |                       |                      | 0.8                | 0.181              | 0.809              | <0.04               | 0.131              |
| Biphenyl                                | mg/kg | 0.01  |                                     |                       |                      | <0.01              | <0.016             | <0.01              | <0.01               | <0.014             |
| 1-Methylnaphthalene                     | mg/kg | 0.01  |                                     |                       |                      | 0.03               | <0.016             | <0.01              | <0.01               | <0.014             |
| 2-methylnaphthalene                     | mg/kg | 0.005 |                                     | 0.0202                | 0.201                | 0.0307             | 0.0136             | 0.0066             | <0.005              | 0.0126             |
| Acenaphthene                            | mg/kg | 0.005 | 0.32                                | 0.00671               | 0.0899               | <0.005             | <0.008             | <0.005             | <0.005              | <0.007             |
| Acenaphthylene                          | mg/kg | 0.005 | 5                                   | 0.00587               | 0.128                | <0.005             | <0.008             | <0.005             | <0.005              | <0.007             |
| Anthracene                              | mg/kg | 0.004 | 0.0046                              | 0.00469               | 0.245                | <0.004             | <0.008             | <0.004             | <0.004              | <0.007             |
| Benzo(a)anthracene                      | mg/kg | 0.005 | 0.07                                | 0.0317                | 0.385                | <0.005             | <0.008             | <0.005             | <0.005              | <0.007             |
| Benzo(a)pyrene                          | mg/kg | 0.005 | 0.6                                 | 0.0319                | 0.782                | <0.005             | <0.008             | <0.005             | <0.005              | <0.007             |
| Acridine                                | mg/kg | 0.005 |                                     |                       |                      | <0.005             | <0.008             | <0.005             | <0.005              | <0.007             |
| Benzo(e)pyrene                          | mg/kg | 0.01  |                                     |                       |                      | <0.01              | <0.016             | <0.01              | <0.01               | <0.014             |
| Benzo(g,h,i)perylene                    | mg/kg | 0.005 |                                     |                       |                      | <0.005             | <0.008             | <0.005             | <0.005              | <0.007             |
| Benzo(k)fluoranthene                    | mg/kg | 0.005 | 6.2                                 |                       |                      | <0.005             | <0.008             | <0.005             | <0.005              | <0.007             |
| C1 Acenaphthenes                        | mg/kg | 0.04  |                                     |                       |                      | <0.04              | <0.064             | <0.04              | <0.04               | <0.056             |
| C1 Benz(a)Anthracenes/Chrysenes         | mg/kg | 0.04  |                                     |                       |                      | <0.04              | <0.064             | <0.04              | <0.04               | <0.056             |
| C1 Benzofluoranthenes/Benzopyrenes      | mg/kg | 0.04  |                                     |                       |                      | <0.04              | <0.064             | <0.04              | <0.04               | <0.056             |
| C1 Biphenyls                            | mg/kg | 0.04  |                                     |                       |                      | <0.04              | <0.064             | <0.04              | <0.04               | <0.056             |
| C1 Dibenzothiophenes                    | mg/kg | 0.04  |                                     |                       |                      | <0.04              | <0.064             | <0.04              | <0.04               | <0.056             |
| Chrysene                                | mg/kg | 0.005 | 6.2                                 | 0.0571                | 0.862                | <0.005             | <0.008             | <0.005             | <0.005              | <0.007             |
| C1 Fluoranthenes/Pyrenes                | mg/kg | 0.04  |                                     |                       |                      | <0.04              | <0.064             | <0.04              | <0.04               | <0.056             |
| C1 Fluorenes                            | mg/kg | 0.04  |                                     |                       |                      | <0.04              | <0.064             | <0.04              | <0.04               | <0.056             |
| C1 Phenanthrenes/Anthracenes            | mg/kg | 0.04  |                                     |                       |                      | 0.046              | <0.064             | <0.04              | <0.04               | <0.056             |
| Dibenz(a,h)anthracene                   | mg/kg | 0.005 | 7.4                                 | 0.00622               | 0.135                | <0.005             | <0.008             | <0.005             | <0.005              | <0.007             |
| Dibenzothiophene                        | mg/kg | 0.01  |                                     |                       |                      | <0.01              | <0.016             | <0.01              | <0.01               | <0.014             |
| Fluoranthene                            | mg/kg | 0.005 | 0.032                               | 0.111                 | 2.355                | <0.005             | <0.008             | 0.0058             | <0.005              | <0.007             |
| Fluorene                                | mg/kg | 0.005 | 0.29                                | 0.0212                | 0.144                | <0.005             | <0.008             | <0.005             | <0.005              | <0.007             |
| Indeno(1,2,3-c,d)pyrene                 | mg/kg | 0.005 |                                     |                       |                      | <0.005             | <0.008             | <0.005             | <0.005              | <0.007             |
| Naphthalene                             | mg/kg | 0.005 | 0.016                               | 0.0346                | 0.391                | 0.0203             | <0.008             | <0.005             | <0.005              | 0.0115             |
| Perylene                                | mg/kg | 0.01  |                                     |                       |                      | <0.01              | 0.114              | 0.013              | <0.01               | 1.62               |
| Phenanthrene                            | mg/kg | 0.005 | 0.051                               | 0.0419                | 0.515                | <0.005             | <0.008             | 0.0072             | <0.005              | 0.0109             |
| Pyrene                                  | mg/kg | 0.005 | 0.034                               | 0.053                 | 0.875                | <0.005             | <0.008             | 0.0077             | <0.005              | 0.008              |
| Quinoline                               | mg/kg | 0.005 |                                     |                       |                      | <0.005             | <0.008             | <0.005             | <0.005              | <0.007             |
| Retene                                  | mg/kg | 0.01  |                                     |                       |                      | 0.77               | 0.182              | 0.85               | <0.01               | 0.131              |
| C2 Benzofluoranthenes/Benzopyrenes      | mg/kg | 0.04  |                                     |                       |                      | <0.04              | <0.064             | <0.04              | <0.04               | <0.056             |
| C2 Biphenyls                            | mg/kg | 0.04  |                                     |                       |                      | <0.04              | <0.064             | <0.04              | <0.04               | <0.056             |
| C2 Dibenzothiophenes                    | mg/kg | 0.04  |                                     |                       |                      | <0.04              | <0.064             | <0.04              | <0.04               | <0.056             |
| C2 Fluoranthenes/Pyrenes                | mg/kg | 0.04  |                                     |                       |                      | <0.04              | <0.064             | <0.04              | <0.04               | <0.056             |
| C2 Naphthalenes                         | mg/kg | 0.04  |                                     |                       |                      | 0.121              | 0.098              | 0.055              | <0.04               | 0.068              |
| C2 Phenanthrenes/Anthracenes            | mg/kg | 0.04  |                                     |                       |                      | <0.04              | <0.064             | <0.04              | <0.04               | <0.056             |
| C2 Fluorenes                            | mg/kg | 0.04  |                                     |                       |                      | <0.04              | <0.064             | <0.04              | <0.04               | <0.056             |
| C2 subd B(a)Anthracenes/Chrysenes       | mg/kg | 0.04  |                                     |                       |                      | <0.04              | <0.064             | <0.04              | <0.04               | <0.056             |
| C3 Benzantracenes/Chrysenes             | mg/kg | 0.04  |                                     |                       |                      | <0.04              | <0.064             | <0.04              | <0.04               | <0.056             |
| C3 Dibenzothiophenes                    | mg/kg | 0.04  |                                     |                       |                      | <0.04              | <0.064             | <0.04              | <0.04               | <0.056             |
| C3 Fluoranthenes/Pyrenes                | mg/kg | 0.04  |                                     |                       |                      | <0.04              | <0.064             | <0.04              | <0.04               | <0.056             |
| C3 Fluorenes                            | mg/kg | 0.04  |                                     |                       |                      | <0.04              | <0.064             | <0.04              | <0.04               | <0.056             |
| C3 Naphthalenes                         | mg/kg | 0.04  |                                     |                       |                      | 0.092              | 0.089              | 0.045              | <0.04               | <0.056             |
| C3 Phenanthrenes/Anthracenes            | mg/kg | 0.04  |                                     |                       |                      | <0.04              | <0.064             | <0.04              | <0.04               | <0.056             |
| <b>Saturated Paste Extractables</b>     |       |       |                                     |                       |                      |                    |                    |                    |                     |                    |
| Sulfur (as SO4)                         | mg/kg | 9.5   |                                     |                       |                      | 131 <sup>#1</sup>  | 757 <sup>#1</sup>  | 93 <sup>#1</sup>   | <11 <sup>#1</sup>   | 182 <sup>#1</sup>  |
| Calcium                                 | mg/kg | 1.6   |                                     |                       |                      | 282 <sup>#1</sup>  | 213 <sup>#1</sup>  | 26.5 <sup>#1</sup> | 16.7 <sup>#1</sup>  | 68.9 <sup>#1</sup> |
| Chloride                                | mg/kg | 6.4   |                                     |                       |                      | 85 <sup>#1</sup>   | 102 <sup>#1</sup>  | <7.6 <sup>#1</sup> | <7.5 <sup>#1</sup>  | <22 <sup>#1</sup>  |
| Saturation Percentage                   | %     | 1     |                                     |                       |                      | 238                | 296                | 37.8               | 37.3                | 108                |
| Electrical Conductivity (lab)           | dS/m  | 0.01  |                                     |                       |                      | 0.746              | 0.783              | 0.929              | 0.272               | 0.66               |
| Magnesium                               | mg/kg | 0.95  |                                     |                       |                      | 63.8 <sup>#1</sup> | 61.8 <sup>#1</sup> | 5.6 <sup>#1</sup>  | 3.5 <sup>#1</sup>   | 15 <sup>#1</sup>   |
| pH (Lab)                                | pH    | 0.1   | 6-8.5                               |                       |                      | 4.87               | 6.57               | 7.17               | 5.36                | 5.52               |
| Potassium                               | mg/kg | 0.64  |                                     |                       |                      | 134 <sup>#1</sup>  | 15.4 <sup>#1</sup> | 1.83 <sup>#1</sup> | <0.75 <sup>#1</sup> | 3.9 <sup>#1</sup>  |
| Sodium                                  | mg/kg | 0.64  |                                     |                       |                      | 5.9 <sup>#1</sup>  | 231 <sup>#1</sup>  | 50.1 <sup>#1</sup> | 2.89 <sup>#1</sup>  | 68.2 <sup>#1</sup> |
| Sodium Adsorption Ratio                 | ---   | 0.1   |                                     |                       |                      | <0.1 <sup>#1</sup> | 2.08 <sup>#1</sup> | 3.76 <sup>#1</sup> | 0.27 <sup>#1</sup>  | 1.87 <sup>#1</sup> |
| <b>Speciated Metals</b>                 |       |       |                                     |                       |                      |                    |                    |                    |                     |                    |
| Chromium (hexavalent)                   | mg/kg | 0.1   | 0.4                                 |                       |                      | <1                 | <1                 | <0.1               | <0.1                | <0.8               |
| <b>Volatile Organic Compounds</b>       |       |       |                                     |                       |                      |                    |                    |                    |                     |                    |
| Benzene                                 | mg/kg | 0.005 | 0.046                               |                       |                      | <0.005             | <0.03              | <0.005             | <0.005              | <0.025             |
| Toluene                                 | mg/kg | 0.05  | 0.52                                |                       |                      | <0.05              | <0.3               | <0.05              | <0.05               | <0.25              |
| Ethylbenzene                            | mg/kg | 0.01  | 0.11                                |                       |                      | <0.015             | <0.9               | <0.015             | <0.015              | <0.075             |
| Xylene (m & p)                          | mg/kg | 0.05  |                                     |                       |                      | <0.05              | <0.3               | <0.05              | <0.05               | <0.25              |
| Xylene (o)                              | mg/kg | 0.05  |                                     |                       |                      | <0.05              | <0.3               | <0.05              | <0.05               | <0.25              |
| Xylenes Total                           | mg/kg | 0.1   | 15                                  |                       |                      | <0.1 <sup>#1</sup> | <0.6 <sup>#1</sup> | <0.1 <sup>#1</sup> | <0.1 <sup>#1</sup>  | <0.5 <sup>#1</sup> |
| Styrene                                 | mg/kg | 0.05  | 0.68                                |                       |                      | <0.05              | <0.3               | <0.05              | <0.05               | <0.25              |

Comments  
#1 CALC

OBED MOUNTAIN MINE  
SOIL/SEDIMENT TABLE  
TABLE 4 - APETOWUN CREEK HEADWATERS

Monitoring Zone  
Location  
Date  
Depth (m)  
Lab Report  
Easting (NAD83 Zone 11N)  
Northing (NAD83 Zone 11N)

| ENV629S   | ENV630    | ENV631    | ENV632    | ENV632S   | ENV633    | ENV633S   |
|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| 09-Jan-14 | 08-Jan-14 | 09-Jan-14 | 08-Jan-14 | 08-Jan-14 | 09-Jan-14 | 09-Jan-14 |
| -0.2      | 0-0.2     | 0-0.2     | 0-0.2     | -0.1      | 0-0.2     | -0.15     |
| L1412224  | L1412224  | L1412224  | L1412224  | L1412224  | L1412224  | L1412224  |
| 471015    | 471025    | 470828    | 471032    | 471032    | 470977    | 470977    |
| 5938628   | 5938936   | 5938516   | 5938851   | 5938851   | 5938745   | 5938745   |

| Parameter                         | Unit         | MDL   | AB Tier 1, Natural Area (Fine Soil) | CSQG FW Sediment ISQG | CSQG FW Sediment PEL |                    |                    |                   |                  |                    |                    |                    |
|-----------------------------------|--------------|-------|-------------------------------------|-----------------------|----------------------|--------------------|--------------------|-------------------|------------------|--------------------|--------------------|--------------------|
| <b>Hydrocarbons</b>               |              |       |                                     |                       |                      |                    |                    |                   |                  |                    |                    |                    |
| F2 (C10-C16 Hydrocarbons)         | mg/kg        | 20    |                                     |                       |                      | <20                | <20                | <20               | <32              | <31                | <66                | <33                |
| Total Hydrocarbons (C6-C50)       | mg/kg        | 20    |                                     |                       |                      | 85                 | <20                | <20               | 43               | 69                 | 267                | 274                |
| Chrom. to baseline at nC50        | -            |       |                                     |                       |                      | 1                  | 1                  | 1                 | 1                | 1                  | 0                  | 0                  |
| Gravimetric Heavy Hydrocarbons    | mg/kg        | 500   |                                     |                       |                      | <500               | <500               | <500              | <500             | <500               | <500               | 680                |
| TEH: (C16-C34)                    | mg/kg        | 20    |                                     |                       |                      | 85                 | <20                | <20               | 43               | 69                 | 119                | 184                |
| TEH: (C34-C50)                    | mg/kg        | 20    |                                     |                       |                      | <20                | <20                | <20               | <32              | <31                | 148                | 90                 |
| TVH                               | mg/kg        | 10    |                                     |                       |                      | <10                | <10                | <10               | <20              | <20                | <50                | <30                |
| TVH: (C6-C10 / BTEX CORRECTED)    | mg/kg        | 10    |                                     |                       |                      | <10                | <10                | <10               | <20              | <20                | <50                | <30                |
| <b>Leachable Metals</b>           |              |       |                                     |                       |                      |                    |                    |                   |                  |                    |                    |                    |
| Barium, extractable               | mg/kg        | 5     |                                     |                       |                      | 6.9                | 23.3               | 46.1              | 45.2             | 41.3               | 74.1               | 39.8               |
| Boron (B), Hot Water Ext.         | mg/kg        | 0.1   |                                     |                       |                      | 0.58               | 0.45               | 0.18              | 0.45             | 0.47               | 1.12               | 0.47               |
| <b>Metals</b>                     |              |       |                                     |                       |                      |                    |                    |                   |                  |                    |                    |                    |
| Aluminium                         | mg/kg        | 50    |                                     |                       |                      | 6550               | 13,400             | 11,400            | 13,700           | 10,600             | 7290               | 9730               |
| Antimony                          | mg/kg        | 0.1   | 20                                  |                       |                      | 0.31               | <0.1               | 0.21              | 0.44             | 0.4                | 0.64               | 0.39               |
| Arsenic                           | mg/kg        | 0.1   | 17                                  | 5.9                   | 17                   | 7.07               | 3.91               | 2.49              | 12               | 7.59               | 3.1                | 6.91               |
| Barium                            | mg/kg        | 0.5   | 750                                 |                       |                      | 423                | 103                | 139               | 415              | 342                | 438                | 300                |
| Beryllium                         | mg/kg        | 0.2   | 5                                   |                       |                      | 0.38               | 0.32               | 0.46              | 0.63             | 0.54               | 0.5                | 0.63               |
| Bismuth                           | mg/kg        | 0.2   |                                     |                       |                      | <0.2               | <0.2               | <0.2              | <0.2             | <0.2               | <0.2               | <0.2               |
| Cadmium                           | mg/kg        | 0.1   | 3.8                                 | 0.6                   | 3.5                  | 0.16               | 0.12               | 0.18              | 0.69             | 0.3                | 0.62               | 0.22               |
| Calcium                           | mg/kg        | 100   |                                     |                       |                      | 11,900             | 1570               | 3440              | 25,100           | 11,500             | 43,800             | 8560               |
| Chromium (III+VI)                 | mg/kg        | 0.5   | 64                                  | 37.3                  | 90                   | 11.6               | 14.7               | 28.2              | 18.3             | 24.7               | 11.3               | 17.2               |
| Cobalt                            | mg/kg        | 0.1   | 20                                  |                       |                      | 5.75               | 4.9                | 4.95              | 12.1             | 8.29               | 5.21               | 8.85               |
| Copper                            | mg/kg        | 0.5   | 63                                  | 35.7                  | 197                  | 9.83               | 3.8                | 12.1              | 17.1             | 15.1               | 18.6               | 17                 |
| Iron                              | mg/kg        | 50    |                                     |                       |                      | 11,600             | 16,900             | 14,500            | 31,000           | 17,800             | 10,200             | 18,200             |
| Lead                              | mg/kg        | 0.5   | 70                                  | 35                    | 91.3                 | 8.38               | 7.95               | 9.06              | 8.73             | 9.3                | 5.1                | 10.3               |
| Lithium                           | mg/kg        | 0.5   |                                     |                       |                      | 6.13               | 17.2               | 14                | 13.1             | 11.4               | 4.53               | 10.7               |
| Magnesium                         | mg/kg        | 20    |                                     |                       |                      | 3560               | 2440               | 3600              | 4330             | 4040               | 3430               | 4250               |
| Manganese                         | mg/kg        | 1     |                                     |                       |                      | 401                | 334                | 113               | 2380             | 698                | 893                | 478                |
| Mercury                           | mg/kg        | 0.005 | 12                                  | 0.17                  | 0.486                | 0.0394             | 0.0116             | 0.0212            | 0.0731           | 0.0488             | 0.1                | 0.0519             |
| Molybdenum                        | mg/kg        | 0.1   | 4                                   |                       |                      | 0.83               | 0.69               | 0.59              | 2.78             | 1.3                | 1.56               | 1.14               |
| Nickel                            | mg/kg        | 0.5   | 50                                  |                       |                      | 15.2               | 9.6                | 20.2              | 23.4             | 24.8               | 20.7               | 24.3               |
| Phosphorus                        | mg/kg        | 50    |                                     |                       |                      | 469                | 490                | 689               | 1300             | 636                | 1420               | 634                |
| Potassium                         | mg/kg        | 50    |                                     |                       |                      | 571                | 571                | 1050              | 833              | 823                | 493                | 882                |
| Selenium                          | mg/kg        | 0.2   | 1                                   |                       |                      | 0.26               | <0.2               | <0.2              | 0.77             | 0.33               | 1.61               | 0.32               |
| Silver                            | mg/kg        | 0.2   | 20                                  |                       |                      | <0.2               | <0.2               | <0.2              | <0.2             | <0.2               | <0.2               | <0.2               |
| Sodium                            | mg/kg        | 100   |                                     |                       |                      | 310                | <100               | <100              | 210              | 180                | 170                | 160                |
| Strontium                         | mg/kg        | 1     |                                     |                       |                      | 80.4               | 8.1                | 17.9              | 106              | 60.9               | 194                | 56.8               |
| Thallium                          | mg/kg        | 0.05  | 1                                   |                       |                      | 0.149              | <0.05              | <0.05             | 0.146            | 0.132              | 0.073              | 0.163              |
| Tin                               | mg/kg        | 2     | 5                                   |                       |                      | <2                 | <2                 | <2                | <2               | <2                 | <2                 | <2                 |
| Titanium                          | mg/kg        | 1     |                                     |                       |                      | 136                | 74                 | 62.5              | 38               | 67.7               | 31.4               | 64.1               |
| Uranium                           | mg/kg        | 0.05  | 33                                  |                       |                      | 1.18               | 0.331              | 0.651             | 2.57             | 1.53               | 2.32               | 1.24               |
| Vanadium                          | mg/kg        | 0.2   | 130                                 |                       |                      | 16.4               | 27.4               | 23.9              | 34.1             | 25.9               | 13.2               | 25.1               |
| Zinc                              | mg/kg        | 5     | 200                                 | 123                   | 315                  | 43.8               | 44.8               | 57.1              | 61.3             | 58.5               | 29.4               | 71.4               |
| <b>Organic / Inorganic Carbon</b> |              |       |                                     |                       |                      |                    |                    |                   |                  |                    |                    |                    |
| CaCO3 Equivalent                  | %            | 0.8   |                                     |                       |                      | 3.2                | <0.8               | <0.8              | <0.8             | 1.72               | 1.53               | 1.19               |
| Inorganic Carbon                  | mg/kg        | 0.1   |                                     |                       |                      | 0.38               | <0.1               | <0.1              | <0.1             | 0.21               | 0.18               | 0.14               |
| TOC                               | % dry weight | 0.1   |                                     |                       |                      | 1.63 <sup>#1</sup> | 1.52 <sup>#1</sup> | 1.7 <sup>#1</sup> | 12 <sup>#1</sup> | 8.56 <sup>#1</sup> | 31.8 <sup>#1</sup> | 9.63 <sup>#1</sup> |
| Total Carbon by Combustion        | %            | 0.1   |                                     |                       |                      | 2                  | 1.5                | 1.7               | 12               | 8.8                | 32                 | 9.8                |
| <b>Particle Size</b>              |              |       |                                     |                       |                      |                    |                    |                   |                  |                    |                    |                    |
| Soil Particle Size (>75 um)       | % by weight  | 1     |                                     |                       |                      | 47.1               | 18.3               | 33.7              | 20.6             | 33.9               | 32.7               | 32.2               |
| <b>Physical Tests</b>             |              |       |                                     |                       |                      |                    |                    |                   |                  |                    |                    |                    |
| Moisture                          | %            | 0.1   |                                     |                       |                      | 28.6               | 16                 | 34.4              | 55.8             | 50.6               | 78.7               | 65.4               |

OBED MOUNTAIN MINE  
SOIL/SEDIMENT TABLE  
TABLE 4 - APETOWUN CREEK HEADWATERS

Monitoring Zone  
Location  
Date  
Depth (m)  
Lab Report  
Easting (NAD83 Zone 11N)  
Northing (NAD83 Zone 11N)

| ENV629S   | ENV630    | ENV631    | ENV632    | ENV632S   | ENV633    | ENV633S   |
|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| 09-Jan-14 | 08-Jan-14 | 09-Jan-14 | 08-Jan-14 | 08-Jan-14 | 09-Jan-14 | 09-Jan-14 |
| -0.2      | 0-0.2     | 0-0.2     | 0-0.2     | -0.1      | 0-0.2     | -0.15     |
| L1412224  | L1412224  | L1412224  | L1412224  | L1412224  | L1412224  | L1412224  |
| 471015    | 471025    | 470828    | 471032    | 471032    | 470977    | 470977    |
| 5938628   | 5938936   | 5938516   | 5938851   | 5938851   | 5938745   | 5938745   |

| Parameter                               | Unit  | MDL   | AB Tier 1, Natural Area (Fine Soil) | CSQG FW Sediment ISQG | CSQG FW Sediment PEL | ENV629S            | ENV630             | ENV631             | ENV632             | ENV632S            | ENV633             | ENV633S            |
|---|-------|-------|-------------------------------------|-----------------------|----------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|
| <b>Polycyclic Aromatic Hydrocarbons</b> |       |       |                                     |                       |                      |                    |                    |                    |                    |                    |                    |                    |
| Benzofluoranthene                       | mg/kg | 0.005 | 6.2                                 |                       |                      | 0.0077             | <0.005             | 0.005              | <0.005             | <0.005             | <0.007             | 0.0103             |
| C4 Benzantracenes/Chrysenes             | mg/kg | 0.04  |                                     |                       |                      | <0.04              | <0.04              | <0.04              | <0.04              | <0.04              | <0.056             | <0.04              |
| C4 Dibenzothiophenes                    | mg/kg | 0.04  |                                     |                       |                      | <0.04              | <0.04              | <0.04              | <0.04              | <0.04              | <0.056             | <0.04              |
| C4 Fluoranthenes/Pyrenes                | mg/kg | 0.04  |                                     |                       |                      | <0.04              | <0.04              | <0.04              | <0.04              | <0.04              | <0.056             | <0.04              |
| C4 Naphthalenes                         | mg/kg | 0.04  |                                     |                       |                      | 0.248              | <0.04              | <0.04              | <0.04              | 0.474              | <0.056             | 0.387              |
| C4 Phenanthrenes/Anthracenes            | mg/kg | 0.04  |                                     |                       |                      | 2.75               | <0.04              | <0.04              | 0.106              | 3.38               | 0.252              | 3.08               |
| Biphenyl                                | mg/kg | 0.01  |                                     |                       |                      | <0.01              | <0.01              | <0.01              | <0.01              | <0.01              | <0.014             | <0.01              |
| 1-Methylnaphthalene                     | mg/kg | 0.01  |                                     |                       |                      | 0.036              | <0.01              | 0.02               | <0.01              | 0.103              | <0.014             | 0.074              |
| 2-methylnaphthalene                     | mg/kg | 0.005 |                                     | 0.0202                | 0.201                | 0.0239             | 0.0055             | 0.0343             | 0.0061             | 0.0646             | 0.0102             | 0.0475             |
| Acenaphthene                            | mg/kg | 0.005 | 0.32                                | 0.00671               | 0.0899               | <0.005             | <0.005             | <0.005             | <0.005             | <0.005             | <0.007             | <0.005             |
| Acenaphthylene                          | mg/kg | 0.005 | 5                                   | 0.00587               | 0.128                | <0.005             | <0.005             | <0.005             | <0.005             | <0.005             | <0.007             | <0.005             |
| Anthracene                              | mg/kg | 0.004 | 0.0046                              | 0.00469               | 0.245                | 0.0042             | <0.004             | <0.004             | <0.004             | <0.004             | <0.007             | <0.004             |
| Benz(a)anthracene                       | mg/kg | 0.005 | 0.07                                | 0.0317                | 0.385                | 0.0096             | <0.005             | <0.005             | <0.005             | <0.005             | <0.007             | <0.005             |
| Benzo(a)pyrene                          | mg/kg | 0.005 | 0.6                                 | 0.0319                | 0.782                | <0.005             | <0.005             | <0.005             | <0.005             | <0.005             | <0.007             | <0.005             |
| Acridine                                | mg/kg | 0.005 |                                     |                       |                      | <0.005             | <0.005             | <0.005             | <0.005             | <0.005             | <0.007             | <0.005             |
| Benzo(e)pyrene                          | mg/kg | 0.01  |                                     |                       |                      | <0.01              | <0.01              | <0.01              | <0.01              | <0.01              | <0.014             | <0.01              |
| Benzo(g,h,i)perylene                    | mg/kg | 0.005 |                                     |                       |                      | <0.005             | <0.005             | <0.005             | <0.005             | <0.005             | <0.007             | <0.005             |
| Benzo(k)fluoranthene                    | mg/kg | 0.005 | 6.2                                 |                       |                      | <0.005             | <0.005             | <0.005             | <0.005             | <0.005             | <0.007             | <0.005             |
| C1 Acenaphthenes                        | mg/kg | 0.04  |                                     |                       |                      | <0.04              | <0.04              | <0.04              | <0.04              | <0.04              | <0.056             | <0.04              |
| C1 Benz(a)Anthracenes/Chrysenes         | mg/kg | 0.04  |                                     |                       |                      | <0.04              | <0.04              | <0.04              | <0.04              | <0.04              | <0.056             | <0.04              |
| C1 Benzofluoranthenes/Benzopyrenes      | mg/kg | 0.04  |                                     |                       |                      | <0.04              | <0.04              | <0.04              | <0.04              | <0.04              | <0.056             | <0.04              |
| C1 Biphenyls                            | mg/kg | 0.04  |                                     |                       |                      | <0.04              | <0.04              | <0.04              | <0.04              | <0.04              | <0.056             | <0.04              |
| C1 Dibenzothiophenes                    | mg/kg | 0.04  |                                     |                       |                      | <0.04              | <0.04              | <0.04              | <0.04              | <0.04              | <0.056             | <0.04              |
| Chrysene                                | mg/kg | 0.005 | 6.2                                 | 0.0571                | 0.862                | <0.005             | <0.005             | <0.005             | <0.005             | 0.0051             | <0.007             | 0.0058             |
| C1 Fluoranthenes/Pyrenes                | mg/kg | 0.04  |                                     |                       |                      | <0.04              | <0.04              | <0.04              | <0.04              | <0.04              | <0.056             | <0.04              |
| C1 Fluorenes                            | mg/kg | 0.04  |                                     |                       |                      | <0.04              | <0.04              | <0.04              | <0.04              | 0.044              | <0.056             | <0.04              |
| C1 Phenanthrenes/Anthracenes            | mg/kg | 0.04  |                                     |                       |                      | 0.061              | <0.04              | 0.056              | <0.04              | 0.103              | <0.056             | 0.106              |
| Dibenz(a,h)anthracene                   | mg/kg | 0.005 | 7.4                                 | 0.00622               | 0.135                | <0.005             | <0.005             | <0.005             | <0.005             | <0.005             | <0.007             | <0.005             |
| Dibenzothiophene                        | mg/kg | 0.01  |                                     |                       |                      | <0.01              | <0.01              | <0.01              | <0.01              | <0.01              | <0.014             | <0.01              |
| Fluoranthene                            | mg/kg | 0.005 | 0.032                               | 0.111                 | 2.355                | 0.0159             | <0.005             | <0.005             | <0.005             | 0.0246             | <0.007             | 0.0254             |
| Fluorene                                | mg/kg | 0.005 | 0.29                                | 0.0212                | 0.144                | 0.0099             | <0.005             | <0.005             | <0.005             | <0.005             | <0.007             | <0.005             |
| Indeno(1,2,3-c,d)pyrene                 | mg/kg | 0.005 |                                     |                       |                      | <0.005             | <0.005             | <0.005             | <0.005             | <0.005             | <0.007             | <0.005             |
| Naphthalene                             | mg/kg | 0.005 | 0.016                               | 0.0346                | 0.391                | <0.005             | 0.0053             | 0.0124             | <0.005             | 0.0311             | <0.007             | <0.005             |
| Perylene                                | mg/kg | 0.01  |                                     |                       |                      | 0.031              | <0.01              | 0.014              | <0.01              | 0.045              | 0.014              | 0.037              |
| Phenanthrene                            | mg/kg | 0.005 | 0.051                               | 0.0419                | 0.515                | 0.0195             | 0.0063             | 0.0258             | <0.005             | 0.0329             | <0.007             | <0.005             |
| Pyrene                                  | mg/kg | 0.005 | 0.034                               | 0.053                 | 0.875                | 0.0219             | <0.005             | 0.0099             | <0.005             | 0.0303             | <0.007             | 0.0273             |
| Quinoline                               | mg/kg | 0.005 |                                     |                       |                      | <0.005             | <0.005             | <0.005             | <0.005             | <0.005             | <0.007             | <0.005             |
| Retene                                  | mg/kg | 0.01  |                                     |                       |                      | 2.75               | <0.01              | 0.033              | 0.106              | 3.38               | 0.252              | 3.08               |
| C2 Benzofluoranthenes/Benzopyrenes      | mg/kg | 0.04  |                                     |                       |                      | <0.04              | <0.04              | <0.04              | <0.04              | <0.04              | <0.056             | <0.04              |
| C2 Biphenyls                            | mg/kg | 0.04  |                                     |                       |                      | <0.04              | <0.04              | <0.04              | <0.04              | <0.04              | <0.056             | <0.04              |
| C2 Dibenzothiophenes                    | mg/kg | 0.04  |                                     |                       |                      | <0.04              | <0.04              | <0.04              | <0.04              | <0.04              | <0.056             | <0.04              |
| C2 Fluoranthenes/Pyrenes                | mg/kg | 0.04  |                                     |                       |                      | <0.04              | <0.04              | <0.04              | <0.04              | <0.04              | <0.056             | 0.043              |
| C2 Naphthalenes                         | mg/kg | 0.04  |                                     |                       |                      | 0.162              | <0.04              | 0.083              | <0.04              | 0.395              | <0.056             | 0.322              |
| C2 Phenanthrenes/Anthracenes            | mg/kg | 0.04  |                                     |                       |                      | <0.04              | <0.04              | <0.04              | <0.04              | <0.04              | <0.056             | 0.06               |
| C2 Fluorenes                            | mg/kg | 0.04  |                                     |                       |                      | <0.04              | <0.04              | <0.04              | <0.04              | 0.049              | <0.056             | <0.04              |
| C2 subd B(a)Anthracenes/Chrysenes       | mg/kg | 0.04  |                                     |                       |                      | <0.04              | <0.04              | <0.04              | <0.04              | <0.04              | <0.056             | <0.04              |
| C3 Benzantracenes/Chrysenes             | mg/kg | 0.04  |                                     |                       |                      | <0.04              | <0.04              | <0.04              | <0.04              | <0.04              | <0.056             | <0.04              |
| C3 Dibenzothiophenes                    | mg/kg | 0.04  |                                     |                       |                      | <0.04              | <0.04              | <0.04              | <0.04              | <0.04              | <0.056             | <0.04              |
| C3 Fluoranthenes/Pyrenes                | mg/kg | 0.04  |                                     |                       |                      | <0.04              | <0.04              | <0.04              | <0.04              | <0.04              | <0.056             | <0.04              |
| C3 Fluorenes                            | mg/kg | 0.04  |                                     |                       |                      | <0.04              | <0.04              | <0.04              | <0.04              | 0.058              | 0.114              | <0.04              |
| C3 Naphthalenes                         | mg/kg | 0.04  |                                     |                       |                      | 0.149              | <0.04              | <0.04              | <0.04              | 0.313              | <0.056             | 0.27               |
| C3 Phenanthrenes/Anthracenes            | mg/kg | 0.04  |                                     |                       |                      | 0.067              | <0.04              | <0.04              | <0.04              | <0.04              | <0.056             | <0.04              |
| <b>Saturated Paste Extractables</b>     |       |       |                                     |                       |                      |                    |                    |                    |                    |                    |                    |                    |
| Sulfur (as SO4)                         | mg/kg | 9.5   |                                     |                       |                      | 129 <sup>#1</sup>  | <12 <sup>#1</sup>  | 15 <sup>#1</sup>   | 169 <sup>#1</sup>  | 91 <sup>#1</sup>   | 274 <sup>#1</sup>  | 65 <sup>#1</sup>   |
| Calcium                                 | mg/kg | 1.6   |                                     |                       |                      | 38 <sup>#1</sup>   | 10.5 <sup>#1</sup> | 17.3 <sup>#1</sup> | 177 <sup>#1</sup>  | 118 <sup>#1</sup>  | 270 <sup>#1</sup>  | 72 <sup>#1</sup>   |
| Chloride                                | mg/kg | 6.4   |                                     |                       |                      | <7.8 <sup>#1</sup> | <8 <sup>#1</sup>   | 22.1 <sup>#1</sup> | <28 <sup>#1</sup>  | <17 <sup>#1</sup>  | <49 <sup>#1</sup>  | <12 <sup>#1</sup>  |
| Saturation Percentage                   | %     | 1     |                                     |                       |                      | 38.9               | 39.9               | 40.6               | 138                | 82.6               | 244                | 58.6               |
| Electrical Conductivity (lab)           | dS/m  | 0.01  |                                     |                       |                      | 1.11               | 0.16               | 0.345              | 0.793              | 0.966              | 0.662              | 0.768              |
| Magnesium                               | mg/kg | 0.95  |                                     |                       |                      | 8.8 <sup>#1</sup>  | 2.2 <sup>#1</sup>  | 2.8 <sup>#1</sup>  | 32 <sup>#1</sup>   | 23.9 <sup>#1</sup> | 47.2 <sup>#1</sup> | 12.2 <sup>#1</sup> |
| pH (Lab)                                | pH    | 0.1   | 6-8.5                               |                       |                      | 7.34               | 5.35               | 5.92               | 6.7                | 6.85               | 6.46               | 6.82               |
| Potassium                               | mg/kg | 0.64  |                                     |                       |                      | 2.22 <sup>#1</sup> | 0.81 <sup>#1</sup> | 1.99 <sup>#1</sup> | 10.9 <sup>#1</sup> | 7.9 <sup>#1</sup>  | 30.5 <sup>#1</sup> | 4 <sup>#1</sup>    |
| Sodium                                  | mg/kg | 0.64  |                                     |                       |                      | 51.1 <sup>#1</sup> | 1.31 <sup>#1</sup> | 4.75 <sup>#1</sup> | 47.1 <sup>#1</sup> | 39.3 <sup>#1</sup> | 48.6 <sup>#1</sup> | 19.7 <sup>#1</sup> |
| Sodium Adsorption Ratio                 | ---   | 0.1   |                                     |                       |                      | 3.12 <sup>#1</sup> | 0.15 <sup>#1</sup> | 0.44 <sup>#1</sup> | 0.73 <sup>#1</sup> | 0.95 <sup>#1</sup> | 0.46 <sup>#1</sup> | 0.74 <sup>#1</sup> |
| <b>Speciated Metals</b>                 |       |       |                                     |                       |                      |                    |                    |                    |                    |                    |                    |                    |
| Chromium (hexavalent)                   | mg/kg | 0.1   | 0.4                                 |                       |                      | <0.1               | <0.1               | <0.1               | <0.4               | <0.4               | 2                  | <0.15              |
| <b>Volatile Organic Compounds</b>       |       |       |                                     |                       |                      |                    |                    |                    |                    |                    |                    |                    |
| Benzene                                 | mg/kg | 0.005 | 0.046                               |                       |                      | <0.005             | <0.005             | <0.005             | <0.01              | <0.01              | <0.025             | <0.015             |
| Toluene                                 | mg/kg | 0.05  | 0.52                                |                       |                      | <0.05              | <0.05              | <0.05              | <0.1               | <0.1               | <0.25              | <0.15              |
| Ethylbenzene                            | mg/kg | 0.01  | 0.11                                |                       |                      | <0.015             | <0.015             | <0.015             | <0.03              | <0.03              | <0.075             | <0.045             |
| Xylene (m & p)                          | mg/kg | 0.05  |                                     |                       |                      | <0.05              | <0.05              | <0.05              | <0.1               | <0.1               | <0.25              | <0.15              |
| Xylene (o)                              | mg/kg | 0.05  |                                     |                       |                      | <0.05              | <0.05              | <0.05              | <0.1               | <0.1               | <0.25              | <0.15              |
| Xylenes Total                           | mg/kg | 0.1   | 15                                  |                       |                      | <0.1 <sup>#1</sup> | <0.1 <sup>#1</sup> | <0.1 <sup>#1</sup> | <0.2 <sup>#1</sup> | <0.2 <sup>#1</sup> | <0.5 <sup>#1</sup> | <0.3 <sup>#1</sup> |
| Styrene                                 | mg/kg | 0.05  | 0.68                                |                       |                      | <0.05              | <0.05              | <0.05              | <0.1               | <0.1               | <0.25              | <0.15              |

Comments  
#1 CALC

OBED MOUNTAIN MINE  
SOIL/SEDIMENT TABLE  
TABLE 4 - APETOWUN CREEK HEADWATERS

Monitoring Zone  
Location  
Date  
Depth (m)  
Lab Report  
Easting (NAD83 Zone 11N)  
Northing (NAD83 Zone 11N)

| ENV634    | ENV634S   | ENV635    | ENV635S   | ENV636    |
|-----------|-----------|-----------|-----------|-----------|
| 09-Jan-14 | 09-Jan-14 | 09-Jan-14 | 09-Jan-14 | 09-Jan-14 |
| 0-0.2     | -0.1      | 0-0.2     | -0.1      | 0-0.2     |
| L1412224  | L1412224  | L1412224  | L1412224  | L1412224  |
| 470952    | 470952    | 470902    | 470902    | 471206    |
| 5938650   | 5938650   | 5938564   | 5938564   | 5938729   |

| Parameter                         | Unit         | MDL   | AB Tier 1,<br>Natural Area<br>(Fine Soil) | CSQG FW<br>Sediment<br>ISQG | CSQG FW<br>Sediment<br>PEL |                   |                    |                    |                    |                    |
|-----------------------------------|--------------|-------|---|-----------------------------|----------------------------|-------------------|--------------------|--------------------|--------------------|--------------------|
| <b>Hydrocarbons</b>               |              |       |   |                             |                            |                   |                    |                    |                    |                    |
| F2 (C10-C16 Hydrocarbons)         | mg/kg        | 20    |   |                             |                            | <20               | 49                 | <54                | <20                | 28                 |
| Total Hydrocarbons (C6-C50)       | mg/kg        | 20    |   |                             |                            | <20               | 520                | 238                | 160                | 524                |
| Chrom. to baseline at nC50        | -            |       |   |                             |                            | 1                 | 1                  | 0                  | 1                  | 0                  |
| Gravimetric Heavy Hydrocarbons    | mg/kg        | 500   |   |                             |                            | <500              | 770                | <500               | <500               | 740                |
| TEH: (C16-C34)                    | mg/kg        | 20    |   |                             |                            | <20               | 352                | 131                | 126                | 343                |
| TEH: (C34-C50)                    | mg/kg        | 20    |   |                             |                            | <20               | 119                | 107                | 34                 | 153                |
| TVH                               | mg/kg        | 10    |   |                             |                            | <10               | <20                | <40                | <10                | <20                |
| TVH: (C6-C10 / BTEX CORRECTED)    | mg/kg        | 10    |   |                             |                            | <10               | <20                | <40                | <10                | <20                |
| <b>Leachable Metals</b>           |              |       |   |                             |                            |                   |                    |                    |                    |                    |
| Barium, extractable               | mg/kg        | 5     |   |                             |                            | 31.6              | 39.2               | 39.2               | 32.3               | 42.4               |
| Boron (B), Hot Water Ext.         | mg/kg        | 0.1   |   |                             |                            | 0.5               | 1.19               | 2.09               | 0.66               | 1.27               |
| <b>Metals</b>                     |              |       |   |                             |                            |                   |                    |                    |                    |                    |
| Aluminium                         | mg/kg        | 50    |   |                             |                            | 12,500            | 9250               | 11,700             | 6980               | 9040               |
| Antimony                          | mg/kg        | 0.1   | 20  |                             |                            | 0.25              | 0.51               | 0.35               | 0.36               | 0.31               |
| Arsenic                           | mg/kg        | 0.1   | 17  | 5.9                         | 17                         | 8.06              | 7.66               | 5.81               | 6.07               | 5.59               |
| Barium                            | mg/kg        | 0.5   | 750                                       |                             |                            | 202               | 635                | 321                | 281                | 576                |
| Beryllium                         | mg/kg        | 0.2   | 5   |                             |                            | 0.37              | 0.65               | 0.56               | 0.5                | 0.45               |
| Bismuth                           | mg/kg        | 0.2   |   |                             |                            | <0.2              | <0.2               | <0.2               | <0.2               | <0.2               |
| Cadmium                           | mg/kg        | 0.1   | 3.8                                       | 0.6                         | 3.5                        | 0.14              | 0.36               | 0.28               | 0.21               | 0.51               |
| Calcium                           | mg/kg        | 100   |   |                             |                            | 3890              | 16,300             | 18,300             | 11,900             | 23,100             |
| Chromium (III+VI)                 | mg/kg        | 0.5   | 64  | 37.3                        | 90                         | 38.5              | 14.2               | 18.6               | 12.3               | 9.88               |
| Cobalt                            | mg/kg        | 0.1   | 20  |                             |                            | 6.73              | 7.6                | 6.02               | 6.32               | 4.97               |
| Copper                            | mg/kg        | 0.5   | 63  | 35.7                        | 197                        | 7.32              | 18.7               | 15.4               | 13.9               | 11.9               |
| Iron                              | mg/kg        | 50    |   |                             |                            | 21,300            | 14,400             | 17,200             | 12,700             | 11,200             |
| Lead                              | mg/kg        | 0.5   | 70  | 35                          | 91.3                       | 8.87              | 12.1               | 8.21               | 7.89               | 9.15               |
| Lithium                           | mg/kg        | 0.5   |   |                             |                            | 28.1              | 8.86               | 13                 | 7.55               | 8.15               |
| Magnesium                         | mg/kg        | 20    |   |                             |                            | 2960              | 4880               | 3870               | 3390               | 3900               |
| Manganese                         | mg/kg        | 1     |   |                             |                            | 593               | 961                | 562                | 358                | 301                |
| Mercury                           | mg/kg        | 0.005 | 12  | 0.17                        | 0.486                      | 0.0125            | 0.0779             | 0.0818             | 0.0347             | 0.0973             |
| Molybdenum                        | mg/kg        | 0.1   | 4   |                             |                            | 2.05              | 1.47               | 1.65               | 0.92               | 3.15               |
| Nickel                            | mg/kg        | 0.5   | 50  |                             |                            | 21.8              | 22.5               | 21.2               | 18.5               | 14.2               |
| Phosphorus                        | mg/kg        | 50    |   |                             |                            | 366               | 643                | 1020               | 434                | 730                |
| Potassium                         | mg/kg        | 50    |   |                             |                            | 625               | 828                | 713                | 588                | 683                |
| Selenium                          | mg/kg        | 0.2   | 1   |                             |                            | 0.23              | 1.03               | 0.69               | 0.29               | 0.59               |
| Silver                            | mg/kg        | 0.2   | 20  |                             |                            | <0.2              | <0.2               | <0.2               | <0.2               | <0.2               |
| Sodium                            | mg/kg        | 100   |   |                             |                            | 200               | 670                | 370                | 260                | 640                |
| Strontium                         | mg/kg        | 1     |   |                             |                            | 53.5              | 188                | 157                | 78.3               | 201                |
| Thallium                          | mg/kg        | 0.05  | 1   |                             |                            | <0.05             | 0.177              | 0.12               | 0.085              | 0.158              |
| Tin                               | mg/kg        | 2     | 5   |                             |                            | <2                | <2                 | <2                 | <2                 | <2                 |
| Titanium                          | mg/kg        | 1     |   |                             |                            | 65.2              | 112                | 50.3               | 101                | 64.6               |
| Uranium                           | mg/kg        | 0.05  | 33  |                             |                            | 0.799             | 2.98               | 2.51               | 0.995              | 3.21               |
| Vanadium                          | mg/kg        | 0.2   | 130                                       |                             |                            | 27.8              | 22.7               | 24.6               | 18.8               | 17.2               |
| Zinc                              | mg/kg        | 5     | 200                                       | 123                         | 315                        | 56.7              | 66.8               | 48.1               | 45.9               | 45.8               |
| <b>Organic / Inorganic Carbon</b> |              |       |   |                             |                            |                   |                    |                    |                    |                    |
| CaCO3 Equivalent                  | %            | 0.8   |   |                             |                            | <0.8              | 1.89               | 1.45               | 1.33               | 2.05               |
| Inorganic Carbon                  | mg/kg        | 0.1   |   |                             |                            | <0.1              | 0.23               | 0.17               | 0.16               | 0.25               |
| TOC                               | % dry weight | 0.1   |   |                             |                            | 1.2 <sup>#1</sup> | 17.2 <sup>#1</sup> | 10.3 <sup>#1</sup> | 6.95 <sup>#1</sup> | 26.8 <sup>#1</sup> |
| Total Carbon by Combustion        | %            | 0.1   |   |                             |                            | 1.2               | 17.4               | 10.5               | 7.1                | 27.1               |
| <b>Particle Size</b>              |              |       |   |                             |                            |                   |                    |                    |                    |                    |
| Soil Particle Size (>75 um)       | % by weight  | 1     |   |                             |                            | 52                | 20.5               | 26.7               | 52.6               | 30.1               |
| <b>Physical Tests</b>             |              |       |   |                             |                            |                   |                    |                    |                    |                    |
| Moisture                          | %            | 0.1   |   |                             |                            | 30.8              | 57                 | 72.2               | 35.4               | 53                 |

OBED MOUNTAIN MINE  
SOIL/SEDIMENT TABLE  
TABLE 4 - APETOWUN CREEK HEADWATERS

Monitoring Zone  
Location  
Date  
Depth (m)  
Lab Report  
Easting (NAD83 Zone 11N)  
Northing (NAD83 Zone 11N)

| ENV634    | ENV634S   | ENV635    | ENV635S   | ENV636    |
|-----------|-----------|-----------|-----------|-----------|
| 09-Jan-14 | 09-Jan-14 | 09-Jan-14 | 09-Jan-14 | 09-Jan-14 |
| 0-0.2     | -0.1      | 0-0.2     | -0.1      | 0-0.2     |
| L1412224  | L1412224  | L1412224  | L1412224  | L1412224  |
| 470952    | 470952    | 470902    | 470902    | 471206    |
| 5938650   | 5938650   | 5938564   | 5938564   | 5938729   |

| Parameter                               | Unit  | MDL   | AB Tier 1, Natural Area (Fine Soil) | CSQG FW Sediment ISQG | CSQG FW Sediment PEL |                    |                    |                    |                    |                    |
|---|-------|-------|-------------------------------------|-----------------------|----------------------|--------------------|--------------------|--------------------|--------------------|--------------------|
| <b>Polycyclic Aromatic Hydrocarbons</b> |       |       |                                     |                       |                      |                    |                    |                    |                    |                    |
| Benzofluoranthene                       | mg/kg | 0.005 | 6.2                                 |                       |                      | <0.005             | <0.005             | <0.005             | <0.005             | <0.005             |
| C4 Benzantracenes/Chrysenes             | mg/kg | 0.04  |                                     |                       |                      | <0.04              | <0.04              | <0.04              | <0.04              | <0.04              |
| C4 Dibenzothiophenes                    | mg/kg | 0.04  |                                     |                       |                      | <0.04              | 0.104              | <0.04              | <0.04              | <0.04              |
| C4 Fluoranthenes/Pyrenes                | mg/kg | 0.04  |                                     |                       |                      | <0.04              | <0.04              | <0.04              | <0.04              | <0.04              |
| C4 Naphthalenes                         | mg/kg | 0.04  |                                     |                       |                      | <0.04              | 2.24               | <0.04              | 0.701              | <0.04              |
| C4 Phenanthrenes/Anthracenes            | mg/kg | 0.04  |                                     |                       |                      | 0.052              | 24.1               | 0.493              | 5.7                | 0.66               |
| Biphenyl                                | mg/kg | 0.01  |                                     |                       |                      | <0.01              | 0.024              | 0.016              | <0.01              | <0.01              |
| 1-Methylnaphthalene                     | mg/kg | 0.01  |                                     |                       |                      | <0.01              | 0.408              | 0.026              | 0.112              | 0.015              |
| 2-methylnaphthalene                     | mg/kg | 0.005 |                                     | 0.0202                | 0.201                | <0.005             | 0.279              | 0.0321             | 0.0702             | 0.0129             |
| Acenaphthene                            | mg/kg | 0.005 | 0.32                                | 0.00671               | 0.0899               | <0.005             | 0.0395             | <0.005             | 0.0114             | <0.005             |
| Acenaphthylene                          | mg/kg | 0.005 | 5                                   | 0.00587               | 0.128                | <0.005             | <0.005             | <0.005             | <0.005             | <0.005             |
| Anthracene                              | mg/kg | 0.004 | 0.0046                              | 0.00469               | 0.245                | <0.004             | <0.004             | <0.005             | 0.0126             | <0.004             |
| Benz(a)anthracene                       | mg/kg | 0.005 | 0.07                                | 0.0317                | 0.385                | <0.005             | <0.005             | <0.005             | <0.005             | <0.005             |
| Benzo(a)pyrene                          | mg/kg | 0.005 | 0.6                                 | 0.0319                | 0.782                | <0.005             | <0.005             | <0.005             | <0.005             | <0.005             |
| Acridine                                | mg/kg | 0.005 |                                     |                       |                      | <0.005             | <0.005             | <0.005             | <0.005             | <0.005             |
| Benzo(e)pyrene                          | mg/kg | 0.01  |                                     |                       |                      | <0.01              | <0.01              | <0.01              | <0.01              | <0.01              |
| Benzo(g,h,i)perylene                    | mg/kg | 0.005 |                                     |                       |                      | <0.005             | 0.0099             | <0.005             | 0.0051             | <0.005             |
| Benzo(k)fluoranthene                    | mg/kg | 0.005 | 6.2                                 |                       |                      | <0.005             | <0.005             | <0.005             | <0.005             | <0.005             |
| C1 Acenaphthenes                        | mg/kg | 0.04  |                                     |                       |                      | <0.04              | 0.114              | <0.04              | <0.04              | <0.04              |
| C1 Benz(a)Anthracenes/Chrysenes         | mg/kg | 0.04  |                                     |                       |                      | <0.04              | <0.04              | <0.04              | <0.04              | <0.04              |
| C1 Benzofluoranthenes/Benzopyrenes      | mg/kg | 0.04  |                                     |                       |                      | <0.04              | <0.04              | <0.04              | <0.04              | <0.04              |
| C1 Biphenyls                            | mg/kg | 0.04  |                                     |                       |                      | <0.04              | <0.04              | <0.04              | <0.04              | <0.04              |
| C1 Dibenzothiophenes                    | mg/kg | 0.04  |                                     |                       |                      | <0.04              | <0.04              | <0.04              | <0.04              | <0.04              |
| Chrysene                                | mg/kg | 0.005 | 6.2                                 | 0.0571                | 0.862                | <0.005             | 0.0222             | <0.005             | 0.0084             | <0.005             |
| C1 Fluoranthenes/Pyrenes                | mg/kg | 0.04  |                                     |                       |                      | <0.04              | 0.154              | <0.04              | 0.051              | <0.04              |
| C1 Fluorenes                            | mg/kg | 0.04  |                                     |                       |                      | <0.04              | 0.16               | <0.04              | <0.04              | <0.04              |
| C1 Phenanthrenes/Anthracenes            | mg/kg | 0.04  |                                     |                       |                      | <0.04              | 0.53               | 0.061              | 0.163              | <0.04              |
| Dibenz(a,h)anthracene                   | mg/kg | 0.005 | 7.4                                 | 0.00622               | 0.135                | <0.005             | <0.005             | <0.005             | <0.005             | <0.005             |
| Dibenzothiophene                        | mg/kg | 0.01  |                                     |                       |                      | <0.01              | <0.01              | <0.01              | <0.01              | <0.01              |
| Fluoranthene                            | mg/kg | 0.005 | 0.032                               | 0.111                 | 2.355                | <0.005             | 0.131              | 0.0063             | 0.0407             | <0.005             |
| Fluorene                                | mg/kg | 0.005 | 0.29                                | 0.0212                | 0.144                | <0.005             | <0.005             | <0.005             | <0.005             | <0.005             |
| Indeno(1,2,3-c,d)pyrene                 | mg/kg | 0.005 |                                     |                       |                      | <0.005             | <0.005             | <0.005             | <0.005             | <0.005             |
| Naphthalene                             | mg/kg | 0.005 | 0.016                               | 0.0346                | 0.391                | <0.005             | <0.005             | 0.018              | <0.005             | <0.005             |
| Perylene                                | mg/kg | 0.01  |                                     |                       |                      | <0.01              | 0.121              | <0.01              | 0.051              | <0.01              |
| Phenanthrene                            | mg/kg | 0.005 | 0.051                               | 0.0419                | 0.515                | <0.005             | 0.171              | 0.0261             | 0.0531             | 0.0103             |
| Pyrene                                  | mg/kg | 0.005 | 0.034                               | 0.053                 | 0.875                | <0.005             | 0.125              | 0.0077             | 0.0452             | 0.0062             |
| Quinoline                               | mg/kg | 0.005 |                                     |                       |                      | <0.005             | <0.005             | <0.005             | <0.005             | <0.005             |
| Retene                                  | mg/kg | 0.01  |                                     |                       |                      | 0.052              | 24.1               | 0.493              | 5.7                | 0.66               |
| C2 Benzofluoranthenes/Benzopyrenes      | mg/kg | 0.04  |                                     |                       |                      | <0.04              | <0.04              | <0.04              | <0.04              | <0.04              |
| C2 Biphenyls                            | mg/kg | 0.04  |                                     |                       |                      | <0.04              | 0.062              | <0.04              | <0.04              | <0.04              |
| C2 Dibenzothiophenes                    | mg/kg | 0.04  |                                     |                       |                      | <0.04              | 0.114              | <0.04              | <0.04              | <0.04              |
| C2 Fluoranthenes/Pyrenes                | mg/kg | 0.04  |                                     |                       |                      | <0.04              | 0.153              | <0.04              | 0.056              | <0.04              |
| C2 Naphthalenes                         | mg/kg | 0.04  |                                     |                       |                      | <0.04              | 1.79               | 0.115              | 0.506              | 0.078              |
| C2 Phenanthrenes/Anthracenes            | mg/kg | 0.04  |                                     |                       |                      | <0.04              | 0.199              | <0.04              | 0.166              | <0.04              |
| C2 Fluorenes                            | mg/kg | 0.04  |                                     |                       |                      | <0.04              | 0.144              | <0.04              | 0.051              | <0.04              |
| C2 subd B(a)Anthracenes/Chrysenes       | mg/kg | 0.04  |                                     |                       |                      | <0.04              | 0.047              | <0.04              | <0.04              | <0.04              |
| C3 Benzantracenes/Chrysenes             | mg/kg | 0.04  |                                     |                       |                      | <0.04              | <0.04              | <0.04              | <0.04              | <0.04              |
| C3 Dibenzothiophenes                    | mg/kg | 0.04  |                                     |                       |                      | <0.04              | 0.096              | <0.04              | <0.04              | <0.04              |
| C3 Fluoranthenes/Pyrenes                | mg/kg | 0.04  |                                     |                       |                      | <0.04              | 0.073              | <0.04              | <0.04              | <0.04              |
| C3 Fluorenes                            | mg/kg | 0.04  |                                     |                       |                      | <0.04              | 0.185              | <0.04              | 0.068              | <0.04              |
| C3 Naphthalenes                         | mg/kg | 0.04  |                                     |                       |                      | <0.04              | 1.59               | 0.068              | 0.462              | 0.063              |
| C3 Phenanthrenes/Anthracenes            | mg/kg | 0.04  |                                     |                       |                      | <0.04              | <0.04              | <0.04              | 0.136              | <0.04              |
| <b>Saturated Paste Extractables</b>     |       |       |                                     |                       |                      |                    |                    |                    |                    |                    |
| Sulfur (as SO4)                         | mg/kg | 9.5   |                                     |                       |                      | 95 <sup>#1</sup>   | 344 <sup>#1</sup>  | 312 <sup>#1</sup>  | 92 <sup>#1</sup>   | 325 <sup>#1</sup>  |
| Calcium                                 | mg/kg | 1.6   |                                     |                       |                      | 46.6 <sup>#1</sup> | 156 <sup>#1</sup>  | 129 <sup>#1</sup>  | 29.8 <sup>#1</sup> | 222 <sup>#1</sup>  |
| Chloride                                | mg/kg | 6.4   |                                     |                       |                      | <9.1 <sup>#1</sup> | 21 <sup>#1</sup>   | <22 <sup>#1</sup>  | <8.3 <sup>#1</sup> | 32 <sup>#1</sup>   |
| Saturation Percentage                   | %     | 1     |                                     |                       |                      | 45.5               | 101                | 111                | 41.6               | 151                |
| Electrical Conductivity (lab)           | dS/m  | 0.01  |                                     |                       |                      | 1.06               | 1.52               | 0.988              | 0.877              | 1.33               |
| Magnesium                               | mg/kg | 0.95  |                                     |                       |                      | 12.6 <sup>#1</sup> | 43.4 <sup>#1</sup> | 26.9 <sup>#1</sup> | 6.1 <sup>#1</sup>  | 59.4 <sup>#1</sup> |
| pH (Lab)                                | pH    | 0.1   | 6-8.5                               |                       |                      | 6.9                | 7.04               | 6.54               | 7.23               | 6.79               |
| Potassium                               | mg/kg | 0.64  |                                     |                       |                      | 1.39 <sup>#1</sup> | 15.9 <sup>#1</sup> | 5.6 <sup>#1</sup>  | 1.81 <sup>#1</sup> | 20.8 <sup>#1</sup> |
| Sodium                                  | mg/kg | 0.64  |                                     |                       |                      | 48.5 <sup>#1</sup> | 158 <sup>#1</sup>  | 97 <sup>#1</sup>   | 42.7 <sup>#1</sup> | 194 <sup>#1</sup>  |
| Sodium Adsorption Ratio                 | ---   | 0.1   |                                     |                       |                      | 2.41 <sup>#1</sup> | 2.87 <sup>#1</sup> | 1.92 <sup>#1</sup> | 2.88 <sup>#1</sup> | 2.43 <sup>#1</sup> |
| <b>Speciated Metals</b>                 |       |       |                                     |                       |                      |                    |                    |                    |                    |                    |
| Chromium (hexavalent)                   | mg/kg | 0.1   | 0.4                                 |                       |                      | <0.1               | <0.1               | <0.7               | <0.1               | <0.2               |
| <b>Volatile Organic Compounds</b>       |       |       |                                     |                       |                      |                    |                    |                    |                    |                    |
| Benzene                                 | mg/kg | 0.005 | 0.046                               |                       |                      | <0.005             | 0.025              | <0.2               | <0.005             | <0.01              |
| Toluene                                 | mg/kg | 0.05  | 0.52                                |                       |                      | <0.05              | <0.1               | <0.2               | <0.05              | <0.1               |
| Ethylbenzene                            | mg/kg | 0.01  | 0.11                                |                       |                      | <0.015             | 0.079              | <0.06              | <0.015             | <0.03              |
| Xylene (m & p)                          | mg/kg | 0.05  |                                     |                       |                      | <0.05              | <0.1               | <0.2               | <0.05              | <0.1               |
| Xylene (o)                              | mg/kg | 0.05  |                                     |                       |                      | <0.05              | <0.1               | <0.2               | <0.05              | <0.1               |
| Xylenes Total                           | mg/kg | 0.1   | 15                                  |                       |                      | <0.1 <sup>#1</sup> | <0.2 <sup>#1</sup> | <0.4 <sup>#1</sup> | <0.1 <sup>#1</sup> | <0.2 <sup>#1</sup> |
| Styrene                                 | mg/kg | 0.05  | 0.68                                |                       |                      | <0.05              | <0.1               | <0.2               | <0.05              | <0.1               |

Comments  
#1 CALC



OBED MOUNTAIN MINE  
SOIL/SEDIMENT TABLE  
TABLE 4 - APETOWUN CREEK HEADWATERS

Monitoring Zone  
Location  
Date  
Depth (m)  
Lab Report  
Easting (NAD83 Zone 11N)  
Northing (NAD83 Zone 11N)

| ENV637    | ENV637S   | ENV638    | ENV639    | ENV646    | ENV647    |
|-----------|-----------|-----------|-----------|-----------|-----------|
| 09-Jan-14 | 09-Jan-14 | 10-Jan-14 | 09-Jan-14 | 08-Jan-14 | 09-Jan-14 |
| 0-0.2     | -0.1      | 0-0.12    | 0-0.2     | 0-0.2     | 0-0.2     |
| L1412224  | L1412224  | L1412224  | L1412224  | L1412224  | L1412224  |
| 471150    | 471150    | 471379    | 471359    | 470980    | 471018    |
| 5938662   | 5938662   | 5938737   | 5938636   | 5938922   | 5938809   |

| Parameter                         | Unit         | MDL   | AB Tier 1,<br>Natural Area<br>(Fine Soil) | CSQG FW<br>Sediment<br>ISQG | CSQG FW<br>Sediment<br>PEL |                    |                    |                    |                    |                    |                    |
|-----------------------------------|--------------|-------|---|-----------------------------|----------------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|
| <b>Hydrocarbons</b>               |              |       |   |                             |                            |                    |                    |                    |                    |                    |                    |
| F2 (C10-C16 Hydrocarbons)         | mg/kg        | 20    |   |                             |                            | <85                | 40                 | <20                | <20                | <20                | <27                |
| Total Hydrocarbons (C6-C50)       | mg/kg        | 20    |   |                             |                            | 386                | 404                | 409                | <20                | 42                 | 408                |
| Chrom. to baseline at nC50        | -            |       |   |                             |                            | 0                  | 0                  | 0                  | 1                  | 1                  | 0                  |
| Gravimetric Heavy Hydrocarbons    | mg/kg        | 500   |   |                             |                            | 800                | 800                | 840                | <500               | <500               | 660                |
| TEH: (C16-C34)                    | mg/kg        | 20    |   |                             |                            | 210                | 260                | 182                | <20                | 42                 | 252                |
| TEH: (C34-C50)                    | mg/kg        | 20    |   |                             |                            | 176                | 104                | 227                | <20                | <20                | 156                |
| TVH                               | mg/kg        | 10    |   |                             |                            | <60                | <20                | <10                | <10                | <10                | <30                |
| TVH: (C6-C10 / BTEX CORRECTED)    | mg/kg        | 10    |   |                             |                            | <60                | <20                | <10                | <10                | <10                | <30                |
| <b>Leachable Metals</b>           |              |       |   |                             |                            |                    |                    |                    |                    |                    |                    |
| Barium, extractable               | mg/kg        | 5     |   |                             |                            | 61                 | 31.3               | 97.5               | 21.9               | 30.7               | 36.2               |
| Boron (B), Hot Water Ext.         | mg/kg        | 0.1   |   |                             |                            | 5.7                | 0.88               | 0.71               | 0.23               | 0.43               | 0.52               |
| <b>Metals</b>                     |              |       |   |                             |                            |                    |                    |                    |                    |                    |                    |
| Aluminium                         | mg/kg        | 50    |   |                             |                            | 6760               | 7670               | 4090               | 15,100             | 9440               | 8760               |
| Antimony                          | mg/kg        | 0.1   | 20  |                             |                            | 0.55               | 0.33               | 0.19               | 0.34               | 0.45               | 0.43               |
| Arsenic                           | mg/kg        | 0.1   | 17  | 5.9                         | 17                         | 5.01               | 7.1                | 2.24               | 7.55               | 6.6                | 6.59               |
| Barium                            | mg/kg        | 0.5   | 750                                       |                             |                            | 360                | 428                | 243                | 140                | 251                | 298                |
| Beryllium                         | mg/kg        | 0.2   | 5   |                             |                            | 0.41               | 0.44               | 0.24               | 0.76               | 0.59               | 0.54               |
| Bismuth                           | mg/kg        | 0.2   |   |                             |                            | <0.2               | <0.2               | <0.2               | <0.2               | <0.2               | <0.2               |
| Cadmium                           | mg/kg        | 0.1   | 3.8                                       | 0.6                         | 3.5                        | 0.54               | 0.21               | 0.4                | 0.11               | 0.27               | 0.37               |
| Calcium                           | mg/kg        | 100   |   |                             |                            | 30,900             | 13,300             | 13,400             | 3540               | 16,500             | 12,100             |
| Chromium (III+VI)                 | mg/kg        | 0.5   | 64  | 37.3                        | 90                         | 9.4                | 11.1               | 36.9               | 28.9               | 19.4               | 27.8               |
| Cobalt                            | mg/kg        | 0.1   | 20  |                             |                            | 5.5                | 6.35               | 3.67               | 12.8               | 8.68               | 8.36               |
| Copper                            | mg/kg        | 0.5   | 63  | 35.7                        | 197                        | 19                 | 10.8               | 9.66               | 15.5               | 18.7               | 17.9               |
| Iron                              | mg/kg        | 50    |   |                             |                            | 11,300             | 12,700             | 7180               | 23,300             | 18,800             | 15,700             |
| Lead                              | mg/kg        | 0.5   | 70  | 35                          | 91.3                       | 6.46               | 8.29               | 5.18               | 10.7               | 9.78               | 10.1               |
| Lithium                           | mg/kg        | 0.5   |   |                             |                            | 5.33               | 7.09               | 3.37               | 11.6               | 9.69               | 8.87               |
| Magnesium                         | mg/kg        | 20    |   |                             |                            | 4420               | 3830               | 2360               | 4070               | 4920               | 4430               |
| Manganese                         | mg/kg        | 1     |   |                             |                            | 1030               | 598                | 478                | 550                | 449                | 537                |
| Mercury                           | mg/kg        | 0.005 | 12  | 0.17                        | 0.486                      | 0.0846             | 0.0427             | 0.0632             | 0.0429             | 0.0441             | 0.0612             |
| Molybdenum                        | mg/kg        | 0.1   | 4   |                             |                            | 1.71               | 0.97               | 0.54               | 1.17               | 0.99               | 1.4                |
| Nickel                            | mg/kg        | 0.5   | 50  |                             |                            | 21.8               | 16.8               | 23.3               | 24.8               | 26.3               | 28.1               |
| Phosphorus                        | mg/kg        | 50    |   |                             |                            | 1140               | 511                | 857                | 433                | 658                | 647                |
| Potassium                         | mg/kg        | 50    |   |                             |                            | 476                | 653                | 1490               | 789                | 922                | 897                |
| Selenium                          | mg/kg        | 0.2   | 1   |                             |                            | 2.56               | 0.44               | <0.2               | <0.2               | 0.27               | 0.32               |
| Silver                            | mg/kg        | 0.2   | 20  |                             |                            | <0.2               | <0.2               | <0.2               | <0.2               | <0.2               | <0.2               |
| Sodium                            | mg/kg        | 100   |   |                             |                            | 720                | 350                | <100               | 150                | 130                | 270                |
| Strontium                         | mg/kg        | 1     |   |                             |                            | 340                | 109                | 36.8               | 37.2               | 53.1               | 73.3               |
| Thallium                          | mg/kg        | 0.05  | 1   |                             |                            | 0.108              | 0.103              | 0.058              | <0.05              | 0.072              | 0.156              |
| Tin                               | mg/kg        | 2     | 5   |                             |                            | <2                 | <2                 | <2                 | <2                 | <2                 | <2                 |
| Titanium                          | mg/kg        | 1     |   |                             |                            | 27.9               | 118                | 25.3               | 48.1               | 65.6               | 69                 |
| Uranium                           | mg/kg        | 0.05  | 33  |                             |                            | 7.77               | 1.23               | 0.381              | 0.605              | 1.2                | 1.67               |
| Vanadium                          | mg/kg        | 0.2   | 130                                       |                             |                            | 14.6               | 18.3               | 10.6               | 32                 | 25.7               | 23.2               |
| Zinc                              | mg/kg        | 5     | 200                                       | 123                         | 315                        | 40.2               | 48.9               | 84.9               | 49.5               | 70.2               | 74.7               |
| <b>Organic / Inorganic Carbon</b> |              |       |   |                             |                            |                    |                    |                    |                    |                    |                    |
| CaCO3 Equivalent                  | %            | 0.8   |   |                             |                            | 2.1                | 2.79               | <0.8               | <0.8               | 2.36               | <0.8               |
| Inorganic Carbon                  | mg/kg        | 0.1   |   |                             |                            | 0.25               | 0.34               | <0.1               | <0.1               | 0.28               | <0.1               |
| TOC                               | % dry weight | 0.1   |   |                             |                            | 33.5 <sup>#1</sup> | 8.27 <sup>#1</sup> | 8.89 <sup>#1</sup> | 1.55 <sup>#1</sup> | 2.15 <sup>#1</sup> | 8.76 <sup>#1</sup> |
| Total Carbon by Combustion        | %            | 0.1   |   |                             |                            | 33.7               | 8.6                | 8.9                | 1.5                | 2.4                | 8.8                |
| <b>Particle Size</b>              |              |       |   |                             |                            |                    |                    |                    |                    |                    |                    |
| Soil Particle Size (>75 um)       | % by weight  | 1     |   |                             |                            | 7.2                | 50.7               | 47                 | 38                 | 37                 | 30.4               |
| <b>Physical Tests</b>             |              |       |   |                             |                            |                    |                    |                    |                    |                    |                    |
| Moisture                          | %            | 0.1   |   |                             |                            | 84                 | 62.5               | 36.6               | 18.4               | 37.8               | 64.7               |

OBED MOUNTAIN MINE  
SOIL/SEDIMENT TABLE  
TABLE 4 - APETOWUN CREEK HEADWATERS

Monitoring Zone  
Location  
Date  
Depth (m)  
Lab Report  
Easting (NAD83 Zone 11N)  
Northing (NAD83 Zone 11N)

| ENV637    | ENV637S   | ENV638    | ENV639    | ENV646    | ENV647    |
|-----------|-----------|-----------|-----------|-----------|-----------|
| 09-Jan-14 | 09-Jan-14 | 10-Jan-14 | 09-Jan-14 | 08-Jan-14 | 09-Jan-14 |
| 0-0.2     | -0.1      | 0-0.12    | 0-0.2     | 0-0.2     | 0-0.2     |
| L1412224  | L1412224  | L1412224  | L1412224  | L1412224  | L1412224  |
| 471150    | 471150    | 471379    | 471359    | 470980    | 471018    |
| 5938662   | 5938662   | 5938737   | 5938636   | 5938922   | 5938809   |

| Parameter                               | Unit  | MDL   | AB Tier 1, Natural Area (Fine Soil) | CSQG FW Sediment ISQG | CSQG FW Sediment PEL |                    |                    |                    |                    |                    |                    |
|---|-------|-------|-------------------------------------|-----------------------|----------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|
| <b>Polycyclic Aromatic Hydrocarbons</b> |       |       |                                     |                       |                      |                    |                    |                    |                    |                    |                    |
| Benzofluoranthene                       | mg/kg | 0.005 | 6.2                                 |                       |                      | <0.009             | <0.005             | <0.005             | <0.005             | <0.005             | <0.005             |
| C4 Benzantracenes/Chrysenes             | mg/kg | 0.04  |                                     |                       |                      | <0.07              | <0.04              | <0.04              | <0.04              | <0.04              | <0.04              |
| C4 Dibenzothiophenes                    | mg/kg | 0.04  |                                     |                       |                      | <0.07              | 0.049              | <0.04              | <0.04              | <0.04              | <0.04              |
| C4 Fluoranthenes/Pyrenes                | mg/kg | 0.04  |                                     |                       |                      | <0.07              | <0.04              | <0.04              | <0.04              | <0.04              | <0.04              |
| C4 Naphthalenes                         | mg/kg | 0.04  |                                     |                       |                      | <0.07              | 0.769              | 0.056              | <0.04              | 0.361              | <0.04              |
| C4 Phenanthrenes/Anthracenes            | mg/kg | 0.04  |                                     |                       |                      | 0.072              | 8.7                | 0.85               | 0.105              | 3.19               | 0.24               |
| Biphenyl                                | mg/kg | 0.01  |                                     |                       |                      | <0.018             | <0.01              | <0.01              | <0.01              | <0.01              | <0.01              |
| 1-Methylnaphthalene                     | mg/kg | 0.01  |                                     |                       |                      | <0.018             | 0.15               | 0.028              | <0.01              | 0.05               | 0.011              |
| 2-methylnaphthalene                     | mg/kg | 0.005 |                                     | 0.0202                | 0.201                | 0.012              | 0.0974             | 0.0228             | <0.005             | 0.0301             | 0.0159             |
| Acenaphthene                            | mg/kg | 0.005 | 0.32                                | 0.00671               | 0.0899               | <0.009             | 0.0124             | <0.005             | <0.005             | <0.005             | <0.005             |
| Acenaphthylene                          | mg/kg | 0.005 | 5                                   | 0.00587               | 0.128                | <0.009             | <0.005             | <0.005             | <0.005             | <0.005             | <0.005             |
| Anthracene                              | mg/kg | 0.004 | 0.0046                              | 0.00469               | 0.245                | <0.009             | 0.0174             | <0.004             | <0.004             | <0.004             | <0.004             |
| Benz(a)anthracene                       | mg/kg | 0.005 | 0.07                                | 0.0317                | 0.385                | <0.009             | <0.005             | <0.005             | <0.005             | <0.005             | <0.005             |
| Benzo(a)pyrene                          | mg/kg | 0.005 | 0.6                                 | 0.0319                | 0.782                | <0.009             | <0.005             | <0.005             | <0.005             | <0.005             | <0.005             |
| Acridine                                | mg/kg | 0.005 |                                     |                       |                      | <0.009             | <0.005             | <0.005             | <0.005             | <0.005             | <0.005             |
| Benzo(e)pyrene                          | mg/kg | 0.01  |                                     |                       |                      | <0.018             | <0.01              | <0.01              | <0.01              | <0.01              | <0.01              |
| Benzo(g,h,i)perylene                    | mg/kg | 0.005 |                                     |                       |                      | <0.009             | <0.005             | <0.005             | <0.005             | <0.005             | <0.005             |
| Benzo(k)fluoranthene                    | mg/kg | 0.005 | 6.2                                 |                       |                      | <0.009             | <0.005             | <0.005             | <0.005             | <0.005             | <0.005             |
| C1 Acenaphthenes                        | mg/kg | 0.04  |                                     |                       |                      | <0.07              | <0.04              | <0.04              | <0.04              | <0.04              | <0.04              |
| C1 Benz(a)Anthracenes/Chrysenes         | mg/kg | 0.04  |                                     |                       |                      | <0.07              | <0.04              | <0.04              | <0.04              | <0.04              | <0.04              |
| C1 Benzofluoranthenes/Benzopyrenes      | mg/kg | 0.04  |                                     |                       |                      | <0.07              | <0.04              | <0.04              | <0.04              | <0.04              | <0.04              |
| C1 Biphenyls                            | mg/kg | 0.04  |                                     |                       |                      | <0.07              | <0.04              | <0.04              | <0.04              | <0.04              | <0.04              |
| C1 Dibenzothiophenes                    | mg/kg | 0.04  |                                     |                       |                      | <0.07              | <0.04              | <0.04              | <0.04              | <0.04              | <0.04              |
| Chrysene                                | mg/kg | 0.005 | 6.2                                 | 0.0571                | 0.862                | <0.009             | <0.005             | <0.005             | <0.005             | <0.005             | <0.005             |
| C1 Fluoranthenes/Pyrenes                | mg/kg | 0.04  |                                     |                       |                      | <0.07              | 0.062              | <0.04              | <0.04              | <0.04              | <0.04              |
| C1 Fluorenes                            | mg/kg | 0.04  |                                     |                       |                      | <0.07              | 0.043              | <0.04              | <0.04              | <0.04              | <0.04              |
| C1 Phenanthrenes/Anthracenes            | mg/kg | 0.04  |                                     |                       |                      | <0.07              | 0.217              | 0.045              | <0.04              | 0.09               | <0.04              |
| Dibenz(a,h)anthracene                   | mg/kg | 0.005 | 7.4                                 | 0.00622               | 0.135                | <0.009             | <0.005             | <0.005             | <0.005             | <0.005             | <0.005             |
| Dibenzothiophene                        | mg/kg | 0.01  |                                     |                       |                      | <0.018             | <0.01              | <0.01              | <0.01              | <0.01              | <0.01              |
| Fluoranthene                            | mg/kg | 0.005 | 0.032                               | 0.111                 | 2.355                | <0.009             | 0.0548             | <0.005             | <0.005             | 0.0292             | <0.005             |
| Fluorene                                | mg/kg | 0.005 | 0.29                                | 0.0212                | 0.144                | <0.009             | 0.0407             | <0.005             | <0.005             | <0.005             | <0.005             |
| Indeno(1,2,3-c,d)pyrene                 | mg/kg | 0.005 |                                     |                       |                      | <0.009             | <0.005             | <0.005             | <0.005             | <0.005             | <0.005             |
| Naphthalene                             | mg/kg | 0.005 | 0.016                               | 0.0346                | 0.391                | 0.0105             | <0.005             | <0.005             | <0.005             | <0.005             | 0.0096             |
| Perylene                                | mg/kg | 0.01  |                                     |                       |                      | <0.018             | 0.064              | <0.01              | <0.01              | 0.058              | <0.01              |
| Phenanthrene                            | mg/kg | 0.005 | 0.051                               | 0.0419                | 0.515                | 0.0127             | 0.0649             | 0.0185             | <0.005             | 0.0293             | 0.0152             |
| Pyrene                                  | mg/kg | 0.005 | 0.034                               | 0.053                 | 0.875                | <0.009             | 0.0561             | <0.005             | <0.005             | 0.035              | <0.005             |
| Quinoline                               | mg/kg | 0.005 |                                     |                       |                      | <0.009             | <0.005             | <0.005             | <0.005             | <0.005             | <0.005             |
| Retene                                  | mg/kg | 0.01  |                                     |                       |                      | 0.072              | 8.7                | 0.85               | 0.105              | 3.19               | 0.24               |
| C2 Benzofluoranthenes/Benzopyrenes      | mg/kg | 0.04  |                                     |                       |                      | <0.07              | <0.04              | <0.04              | <0.04              | <0.04              | <0.04              |
| C2 Biphenyls                            | mg/kg | 0.04  |                                     |                       |                      | <0.07              | <0.04              | <0.04              | <0.04              | <0.04              | <0.04              |
| C2 Dibenzothiophenes                    | mg/kg | 0.04  |                                     |                       |                      | <0.07              | <0.04              | <0.04              | <0.04              | <0.04              | <0.04              |
| C2 Fluoranthenes/Pyrenes                | mg/kg | 0.04  |                                     |                       |                      | <0.07              | 0.061              | <0.04              | <0.04              | 0.047              | <0.04              |
| C2 Naphthalenes                         | mg/kg | 0.04  |                                     |                       |                      | <0.07              | 0.662              | 0.12               | <0.04              | 0.227              | <0.04              |
| C2 Phenanthrenes/Anthracenes            | mg/kg | 0.04  |                                     |                       |                      | <0.07              | 0.05               | <0.04              | <0.04              | 0.022              | <0.04              |
| C2 Fluorenes                            | mg/kg | 0.04  |                                     |                       |                      | <0.07              | 0.063              | <0.04              | <0.04              | <0.04              | <0.04              |
| C2 subd B(a)Anthracenes/Chrysenes       | mg/kg | 0.04  |                                     |                       |                      | <0.07              | <0.04              | <0.04              | <0.04              | <0.04              | <0.04              |
| C3 Benzantracenes/Chrysenes             | mg/kg | 0.04  |                                     |                       |                      | <0.07              | <0.04              | <0.04              | <0.04              | <0.04              | <0.04              |
| C3 Dibenzothiophenes                    | mg/kg | 0.04  |                                     |                       |                      | <0.07              | <0.04              | <0.04              | <0.04              | <0.04              | <0.04              |
| C3 Fluoranthenes/Pyrenes                | mg/kg | 0.04  |                                     |                       |                      | <0.07              | <0.04              | <0.04              | <0.04              | <0.04              | <0.04              |
| C3 Fluorenes                            | mg/kg | 0.04  |                                     |                       |                      | <0.07              | 0.061              | 0.049              | <0.04              | <0.04              | <0.04              |
| C3 Naphthalenes                         | mg/kg | 0.04  |                                     |                       |                      | <0.07              | 0.609              | 0.091              | <0.04              | 0.227              | <0.04              |
| C3 Phenanthrenes/Anthracenes            | mg/kg | 0.04  |                                     |                       |                      | <0.07              | 0.04               | <0.04              | <0.04              | 0.09               | <0.04              |
| <b>Saturated Paste Extractables</b>     |       |       |                                     |                       |                      |                    |                    |                    |                    |                    |                    |
| Sulfur (as SO4)                         | mg/kg | 9.5   |                                     |                       |                      | 492 <sup>#1</sup>  | 132 <sup>#1</sup>  | 173 <sup>#1</sup>  | 37 <sup>#1</sup>   | 56 <sup>#1</sup>   | 134 <sup>#1</sup>  |
| Calcium                                 | mg/kg | 1.6   |                                     |                       |                      | 216 <sup>#1</sup>  | 66.3 <sup>#1</sup> | 329 <sup>#1</sup>  | 16.4 <sup>#1</sup> | 150 <sup>#1</sup>  | 131 <sup>#1</sup>  |
| Chloride                                | mg/kg | 6.4   |                                     |                       |                      | <55 <sup>#1</sup>  | <14 <sup>#1</sup>  | 150 <sup>#1</sup>  | <8.3 <sup>#1</sup> | <13 <sup>#1</sup>  | 26 <sup>#1</sup>   |
| Saturation Percentage                   | %     | 1     |                                     |                       |                      | 275                | 69.2               | 260                | 41.5               | 65.5               | 98.1               |
| Electrical Conductivity (lab)           | dS/m  | 0.01  |                                     |                       |                      | 0.798              | 1.02               | 0.947              | 0.484              | 1.37               | 1.06               |
| Magnesium                               | mg/kg | 0.95  |                                     |                       |                      | 57.5 <sup>#1</sup> | 15.2 <sup>#1</sup> | 85.6 <sup>#1</sup> | 4.9 <sup>#1</sup>  | 34 <sup>#1</sup>   | 30.1 <sup>#1</sup> |
| pH (Lab)                                | pH    | 0.1   | 6-8.5                               |                       |                      | 6.88               | 7.3                | 5.82               | 6.66               | 6.64               | 6.94               |
| Potassium                               | mg/kg | 0.64  |                                     |                       |                      | 20.8 <sup>#1</sup> | 4.4 <sup>#1</sup>  | 305 <sup>#1</sup>  | 1.07 <sup>#1</sup> | 8.4 <sup>#1</sup>  | 23.7 <sup>#1</sup> |
| Sodium                                  | mg/kg | 0.64  |                                     |                       |                      | 196 <sup>#1</sup>  | 81.9 <sup>#1</sup> | 8.4 <sup>#1</sup>  | 23.2 <sup>#1</sup> | 23.3 <sup>#1</sup> | 77.1 <sup>#1</sup> |
| Sodium Adsorption Ratio                 | ---   | 0.1   |                                     |                       |                      | 1.85 <sup>#1</sup> | 2.83 <sup>#1</sup> | <0.1 <sup>#1</sup> | 2 <sup>#1</sup>    | 0.55 <sup>#1</sup> | 1.59 <sup>#1</sup> |
| <b>Speciated Metals</b>                 |       |       |                                     |                       |                      |                    |                    |                    |                    |                    |                    |
| Chromium (hexavalent)                   | mg/kg | 0.1   | 0.4                                 |                       |                      | <0.55              | <0.15              | 0.96               | 0.13               | <0.1               | <0.15              |
| <b>Volatile Organic Compounds</b>       |       |       |                                     |                       |                      |                    |                    |                    |                    |                    |                    |
| Benzene                                 | mg/kg | 0.005 | 0.046                               |                       |                      | <0.03              | <0.01              | <0.005             | <0.005             | <0.005             | <0.015             |
| Toluene                                 | mg/kg | 0.05  | 0.52                                |                       |                      | <0.3               | <0.1               | <0.05              | <0.05              | <0.05              | <0.15              |
| Ethylbenzene                            | mg/kg | 0.01  | 0.11                                |                       |                      | <0.09              | <0.03              | <0.015             | <0.015             | <0.015             | <0.045             |
| Xylene (m & p)                          | mg/kg | 0.05  |                                     |                       |                      | <0.3               | <0.1               | <0.05              | <0.05              | <0.05              | <0.15              |
| Xylene (o)                              | mg/kg | 0.05  |                                     |                       |                      | <0.3               | <0.1               | <0.05              | <0.05              | <0.05              | <0.15              |
| Xylenes Total                           | mg/kg | 0.1   | 15                                  |                       |                      | <0.6 <sup>#1</sup> | <0.2 <sup>#1</sup> | <0.1 <sup>#1</sup> | <0.1 <sup>#1</sup> | <0.1 <sup>#1</sup> | <0.3 <sup>#1</sup> |
| Styrene                                 | mg/kg | 0.05  | 0.68                                |                       |                      | <0.3               | <0.1               | <0.05              | <0.05              | <0.05              | <0.15              |

Comments  
#1 CALC

OBED MOUNTAIN MINE  
SOIL/SEDIMENT TABLE  
TABLE 4 - APETOWUN CREEK HEADWATERS

Monitoring Zone  
Location  
Date  
Depth (m)  
Lab Report  
Easting (NAD83 Zone 11N)  
Northing (NAD83 Zone 11N)

| ENV667    |          |          | ENV668    |          |          |          |
|-----------|----------|----------|-----------|----------|----------|----------|
| 29-Jan-14 |          |          | 29-Jan-14 |          |          |          |
| 0.2-0.5   | 0.5-1    | 0-0.2    | 0.2-0.5   | 0.5-1    | 0-0.2    | 1-1.5    |
| L1417727  | L1417727 | L1417727 | L1417727  | L1417727 | L1417727 | L1417727 |
| 471016    | 471016   | 471016   | 471014    | 471014   | 471014   | 471014   |
| 5938629   | 5938629  | 5938629  | 5938625   | 5938625  | 5938625  | 5938625  |

| Parameter                         | Unit         | MDL   | AB Tier 1, Natural Area (Fine Soil) | CSQG FW Sediment ISQG | CSQG FW Sediment PEL |                    |                    |                    |                    |                    |                    |                  |
|-----------------------------------|--------------|-------|-------------------------------------|-----------------------|----------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|------------------|
| <b>Hydrocarbons</b>               |              |       |                                     |                       |                      |                    |                    |                    |                    |                    |                    |                  |
| F2 (C10-C16 Hydrocarbons)         | mg/kg        | 20    |                                     |                       |                      | -                  | -                  | -                  | -                  | -                  | -                  |                  |
| Total Hydrocarbons (C6-C50)       | mg/kg        | 20    |                                     |                       |                      | -                  | -                  | -                  | -                  | -                  | -                  |                  |
| Chrom. to baseline at nC50        | -            |       |                                     |                       |                      | -                  | -                  | -                  | -                  | -                  | -                  |                  |
| Gravimetric Heavy Hydrocarbons    | mg/kg        | 500   |                                     |                       |                      | -                  | -                  | -                  | -                  | -                  | -                  |                  |
| TEH: (C16-C34)                    | mg/kg        | 20    |                                     |                       |                      | -                  | -                  | -                  | -                  | -                  | -                  |                  |
| TEH: (C34-C50)                    | mg/kg        | 20    |                                     |                       |                      | -                  | -                  | -                  | -                  | -                  | -                  |                  |
| TVH                               | mg/kg        | 10    |                                     |                       |                      | -                  | -                  | -                  | -                  | -                  | -                  |                  |
| TVH: (C6-C10 / BTEX CORRECTED)    | mg/kg        | 10    |                                     |                       |                      | -                  | -                  | -                  | -                  | -                  | -                  |                  |
| <b>Leachable Metals</b>           |              |       |                                     |                       |                      |                    |                    |                    |                    |                    |                    |                  |
| Barium, extractable               | mg/kg        | 5     |                                     |                       |                      | 93.1               | 58.5               | 85.5               | 69.4               | 99.4               | 42.2               | 104              |
| Boron (B), Hot Water Ext.         | mg/kg        | 0.1   |                                     |                       |                      | 7.19               | 0.75               | 6.37               | 6.29               | 5.5                | 6.81               | 4.5              |
| <b>Metals</b>                     |              |       |                                     |                       |                      |                    |                    |                    |                    |                    |                    |                  |
| Aluminium                         | mg/kg        | 50    |                                     |                       |                      | -                  | -                  | -                  | -                  | -                  | -                  | -                |
| Antimony                          | mg/kg        | 0.1   | 20                                  |                       |                      | 0.49               | 0.6                | 0.44               | 0.66               | 0.51               | 0.66               | 0.55             |
| Arsenic                           | mg/kg        | 0.1   | 17                                  | 5.9                   | 17                   | 63.5               | 10.7               | 83.8               | 42.3               | 17.4               | 17.6               | 22.7             |
| Barium                            | mg/kg        | 0.5   | 750                                 |                       |                      | 500                | 128                | 610                | 479                | 314                | 666                | 325              |
| Beryllium                         | mg/kg        | 0.2   | 5                                   |                       |                      | <1                 | <1                 | <1                 | <1                 | <1                 | <1                 | <1               |
| Bismuth                           | mg/kg        | 0.2   |                                     |                       |                      | -                  | -                  | -                  | -                  | -                  | -                  | -                |
| Cadmium                           | mg/kg        | 0.1   | 3.8                                 | 0.6                   | 3.5                  | 1.23               | <0.5               | 1.62               | 0.64               | 0.95               | <0.5               | 1.21             |
| Calcium                           | mg/kg        | 100   |                                     |                       |                      | -                  | -                  | -                  | -                  | -                  | -                  | -                |
| Chromium (III+VI)                 | mg/kg        | 0.5   | 64                                  | 37.3                  | 90                   | 7.29               | 37.5               | 8.57               | 4.94               | 7.38               | 15                 | 8.84             |
| Cobalt                            | mg/kg        | 0.1   | 20                                  |                       |                      | 12.9               | 4.2                | 21.1               | 12.4               | 3                  | 9.9                | 3.8              |
| Copper                            | mg/kg        | 0.5   | 63                                  | 35.7                  | 197                  | 18.2               | 10.5               | 15.3               | 10.3               | 19.1               | 22.1               | 27.6             |
| Iron                              | mg/kg        | 50    |                                     |                       |                      | -                  | -                  | -                  | -                  | -                  | -                  | -                |
| Lead                              | mg/kg        | 0.5   | 70                                  | 35                    | 91.3                 | <5                 | 7.2                | <5                 | <5                 | <5                 | 9.9                | <5               |
| Lithium                           | mg/kg        | 0.5   |                                     |                       |                      | -                  | -                  | -                  | -                  | -                  | -                  | -                |
| Magnesium                         | mg/kg        | 20    |                                     |                       |                      | -                  | -                  | -                  | -                  | -                  | -                  | -                |
| Manganese                         | mg/kg        | 1     |                                     |                       |                      | -                  | -                  | -                  | -                  | -                  | -                  | -                |
| Mercury                           | mg/kg        | 0.005 | 12                                  | 0.17                  | 0.486                | 0.0888             | 0.0402             | 0.0923             | 0.0786             | 0.0847             | 0.0892             | 0.0597           |
| Molybdenum                        | mg/kg        | 0.1   | 4                                   |                       |                      | 8.4                | 1.5                | 10.8               | 11.6               | 4.1                | 1.7                | 4.8              |
| Nickel                            | mg/kg        | 0.5   | 50                                  |                       |                      | 20.6               | 27.1               | 25.8               | 14.5               | 16                 | 28.3               | 15.2             |
| Phosphorus                        | mg/kg        | 50    |                                     |                       |                      | -                  | -                  | -                  | -                  | -                  | -                  | -                |
| Potassium                         | mg/kg        | 50    |                                     |                       |                      | -                  | -                  | -                  | -                  | -                  | -                  | -                |
| Selenium                          | mg/kg        | 0.2   | 1                                   |                       |                      | 1.79               | 0.52               | 1.67               | 1.74               | 1.31               | 2.61               | 1.68             |
| Silver                            | mg/kg        | 0.2   | 20                                  |                       |                      | <1                 | <1                 | <1                 | <1                 | <1                 | <1                 | <1               |
| Sodium                            | mg/kg        | 100   |                                     |                       |                      | -                  | -                  | -                  | -                  | -                  | -                  | -                |
| Strontium                         | mg/kg        | 1     |                                     |                       |                      | -                  | -                  | -                  | -                  | -                  | -                  | -                |
| Thallium                          | mg/kg        | 0.05  | 1                                   |                       |                      | <0.5               | <0.5               | <0.5               | <0.5               | <0.5               | <0.5               | <0.5             |
| Tin                               | mg/kg        | 2     | 5                                   |                       |                      | <5                 | <5                 | <5                 | <5                 | <5                 | <5                 | <5               |
| Titanium                          | mg/kg        | 1     |                                     |                       |                      | -                  | -                  | -                  | -                  | -                  | -                  | -                |
| Uranium                           | mg/kg        | 0.05  | 33                                  |                       |                      | 3.9                | 3.7                | 2.3                | 5.6                | <2                 | 3.4                | 4.1              |
| Vanadium                          | mg/kg        | 0.2   | 130                                 |                       |                      | 13.9               | 36                 | 14.2               | 9.6                | 18.8               | 22                 | 22.4             |
| Zinc                              | mg/kg        | 5     | 200                                 | 123                   | 315                  | 50                 | 35                 | 62                 | 59                 | 51                 | 64                 | 46               |
| <b>Organic / Inorganic Carbon</b> |              |       |                                     |                       |                      |                    |                    |                    |                    |                    |                    |                  |
| CaCO3 Equivalent                  | %            | 0.8   |                                     |                       |                      | <0.8               | 1.31               | 1.36               | 1.07               | 1.01               | 1.78               | 1.04             |
| Inorganic Carbon                  | mg/kg        | 0.1   |                                     |                       |                      | <0.1               | 0.16               | 0.16               | 0.13               | 0.12               | 0.21               | 0.13             |
| TOC                               | % dry weight | 0.1   |                                     |                       |                      | 28.1 <sup>#1</sup> | 3.36 <sup>#1</sup> | 25.3 <sup>#1</sup> | 23.6 <sup>#1</sup> | 37.4 <sup>#1</sup> | 17.2 <sup>#1</sup> | 32 <sup>#1</sup> |
| Total Carbon by Combustion        | %            | 0.1   |                                     |                       |                      | 28.1               | 3.5                | 25.5               | 23.8               | 37.5               | 17.4               | 32.2             |
| <b>Particle Size</b>              |              |       |                                     |                       |                      |                    |                    |                    |                    |                    |                    |                  |
| Soil Particle Size (>75 um)       | % by weight  | 1     |                                     |                       |                      | 17.3               | 48                 | 21.9               | 30                 | 23.4               | 27.8               | 16.5             |
| <b>Physical Tests</b>             |              |       |                                     |                       |                      |                    |                    |                    |                    |                    |                    |                  |
| Moisture                          | %            | 0.1   |                                     |                       |                      | 75.3               | 38.2               | 68.8               | 79.7               | 78                 | 80.7               | 79.3             |

OBED MOUNTAIN MINE  
SOIL/SEDIMENT TABLE  
TABLE 4 - APETOWUN CREEK HEADWATERS

Monitoring Zone  
Location  
Date  
Depth (m)  
Lab Report  
Easting (NAD83 Zone 11N)  
Northing (NAD83 Zone 11N)

| ENV667    |          |          | ENV668    |          |          |          |
|-----------|----------|----------|-----------|----------|----------|----------|
| 29-Jan-14 |          |          | 29-Jan-14 |          |          |          |
| 0.2-0.5   | 0.5-1    | 0.0-2    | 0.2-0.5   | 0.5-1    | 0.0-2    | 1-1.5    |
| L1417727  | L1417727 | L1417727 | L1417727  | L1417727 | L1417727 | L1417727 |
| 471016    | 471016   | 471016   | 471014    | 471014   | 471014   | 471014   |
| 5938629   | 5938629  | 5938629  | 5938625   | 5938625  | 5938625  | 5938625  |

| Parameter                               | Unit  | MDL   | AB Tier 1, Natural Area (Fine Soil) | CSQG FW Sediment ISQG | CSQG FW Sediment PEL |                    |                    |                    |                    |                    |                    |
|---|-------|-------|-------------------------------------|-----------------------|----------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|
| <b>Polycyclic Aromatic Hydrocarbons</b> |       |       |                                     |                       |                      |                    |                    |                    |                    |                    |                    |
| Benzofl(u)anthrene                      | mg/kg | 0.005 | 6.2                                 |                       |                      | -                  | -                  | -                  | -                  | -                  | -                  |
| C4 Benzantracenes/Chrysenes             | mg/kg | 0.04  |                                     |                       |                      | -                  | -                  | -                  | -                  | -                  | -                  |
| C4 Dibenzothiophenes                    | mg/kg | 0.04  |                                     |                       |                      | -                  | -                  | -                  | -                  | -                  | -                  |
| C4 Fluoranthenes/Pyrenes                | mg/kg | 0.04  |                                     |                       |                      | -                  | -                  | -                  | -                  | -                  | -                  |
| C4 Naphthalenes                         | mg/kg | 0.04  |                                     |                       |                      | -                  | -                  | -                  | -                  | -                  | -                  |
| C4 Phenanthrenes/Anthracenes            | mg/kg | 0.04  |                                     |                       |                      | -                  | -                  | -                  | -                  | -                  | -                  |
| Biphenyl                                | mg/kg | 0.01  |                                     |                       |                      | -                  | -                  | -                  | -                  | -                  | -                  |
| 1-Methylnaphthalene                     | mg/kg | 0.01  |                                     |                       |                      | -                  | -                  | -                  | -                  | -                  | -                  |
| 2-methylnaphthalene                     | mg/kg | 0.005 |                                     | 0.0202                | 0.201                | -                  | -                  | -                  | -                  | -                  | -                  |
| Acenaphthene                            | mg/kg | 0.005 | 0.32                                | 0.00671               | 0.0899               | -                  | -                  | -                  | -                  | -                  | -                  |
| Acenaphthylene                          | mg/kg | 0.005 | 5                                   | 0.00587               | 0.128                | -                  | -                  | -                  | -                  | -                  | -                  |
| Anthracene                              | mg/kg | 0.004 | 0.0046                              | 0.00469               | 0.245                | -                  | -                  | -                  | -                  | -                  | -                  |
| Benz(a)anthracene                       | mg/kg | 0.005 | 0.07                                | 0.0317                | 0.385                | -                  | -                  | -                  | -                  | -                  | -                  |
| Benzo(a)pyrene                          | mg/kg | 0.005 | 0.6                                 | 0.0319                | 0.782                | -                  | -                  | -                  | -                  | -                  | -                  |
| Acridine                                | mg/kg | 0.005 |                                     |                       |                      | -                  | -                  | -                  | -                  | -                  | -                  |
| Benzo(e)pyrene                          | mg/kg | 0.01  |                                     |                       |                      | -                  | -                  | -                  | -                  | -                  | -                  |
| Benzo(g,h,i)perylene                    | mg/kg | 0.005 |                                     |                       |                      | -                  | -                  | -                  | -                  | -                  | -                  |
| Benzo(k)fluoranthene                    | mg/kg | 0.005 | 6.2                                 |                       |                      | -                  | -                  | -                  | -                  | -                  | -                  |
| C1 Acenaphthenes                        | mg/kg | 0.04  |                                     |                       |                      | -                  | -                  | -                  | -                  | -                  | -                  |
| C1 Benz(a)Anthracenes/Chrysenes         | mg/kg | 0.04  |                                     |                       |                      | -                  | -                  | -                  | -                  | -                  | -                  |
| C1 Benzofluoranthenes/Benzopyrenes      | mg/kg | 0.04  |                                     |                       |                      | -                  | -                  | -                  | -                  | -                  | -                  |
| C1 Biphenyls                            | mg/kg | 0.04  |                                     |                       |                      | -                  | -                  | -                  | -                  | -                  | -                  |
| C1 Dibenzothiophenes                    | mg/kg | 0.04  |                                     |                       |                      | -                  | -                  | -                  | -                  | -                  | -                  |
| Chrysene                                | mg/kg | 0.005 | 6.2                                 | 0.0571                | 0.862                | -                  | -                  | -                  | -                  | -                  | -                  |
| C1 Fluoranthenes/Pyrenes                | mg/kg | 0.04  |                                     |                       |                      | -                  | -                  | -                  | -                  | -                  | -                  |
| C1 Fluorenes                            | mg/kg | 0.04  |                                     |                       |                      | -                  | -                  | -                  | -                  | -                  | -                  |
| C1 Phenanthrenes/Anthracenes            | mg/kg | 0.04  |                                     |                       |                      | -                  | -                  | -                  | -                  | -                  | -                  |
| Dibenz(a,h)anthracene                   | mg/kg | 0.005 | 7.4                                 | 0.00622               | 0.135                | -                  | -                  | -                  | -                  | -                  | -                  |
| Dibenzothiophene                        | mg/kg | 0.01  |                                     |                       |                      | -                  | -                  | -                  | -                  | -                  | -                  |
| Fluoranthene                            | mg/kg | 0.005 | 0.032                               | 0.111                 | 2.355                | -                  | -                  | -                  | -                  | -                  | -                  |
| Fluorene                                | mg/kg | 0.005 | 0.29                                | 0.0212                | 0.144                | -                  | -                  | -                  | -                  | -                  | -                  |
| Indeno(1,2,3-c,d)pyrene                 | mg/kg | 0.005 |                                     |                       |                      | -                  | -                  | -                  | -                  | -                  | -                  |
| Naphthalene                             | mg/kg | 0.005 | 0.016                               | 0.0346                | 0.391                | -                  | -                  | -                  | -                  | -                  | -                  |
| Perylene                                | mg/kg | 0.01  |                                     |                       |                      | -                  | -                  | -                  | -                  | -                  | -                  |
| Phenanthrene                            | mg/kg | 0.005 | 0.051                               | 0.0419                | 0.515                | -                  | -                  | -                  | -                  | -                  | -                  |
| Pyrene                                  | mg/kg | 0.005 | 0.034                               | 0.053                 | 0.875                | -                  | -                  | -                  | -                  | -                  | -                  |
| Quinoline                               | mg/kg | 0.005 |                                     |                       |                      | -                  | -                  | -                  | -                  | -                  | -                  |
| Retene                                  | mg/kg | 0.01  |                                     |                       |                      | -                  | -                  | -                  | -                  | -                  | -                  |
| C2 Benzofluoranthenes/Benzopyrenes      | mg/kg | 0.04  |                                     |                       |                      | -                  | -                  | -                  | -                  | -                  | -                  |
| C2 Biphenyls                            | mg/kg | 0.04  |                                     |                       |                      | -                  | -                  | -                  | -                  | -                  | -                  |
| C2 Dibenzothiophenes                    | mg/kg | 0.04  |                                     |                       |                      | -                  | -                  | -                  | -                  | -                  | -                  |
| C2 Fluoranthenes/Pyrenes                | mg/kg | 0.04  |                                     |                       |                      | -                  | -                  | -                  | -                  | -                  | -                  |
| C2 Naphthalenes                         | mg/kg | 0.04  |                                     |                       |                      | -                  | -                  | -                  | -                  | -                  | -                  |
| C2 Phenanthrenes/Anthracenes            | mg/kg | 0.04  |                                     |                       |                      | -                  | -                  | -                  | -                  | -                  | -                  |
| C2 Fluorenes                            | mg/kg | 0.04  |                                     |                       |                      | -                  | -                  | -                  | -                  | -                  | -                  |
| C2 subd B(a)Anthracenes/Chrysenes       | mg/kg | 0.04  |                                     |                       |                      | -                  | -                  | -                  | -                  | -                  | -                  |
| C3 Benzantracenes/Chrysenes             | mg/kg | 0.04  |                                     |                       |                      | -                  | -                  | -                  | -                  | -                  | -                  |
| C3 Dibenzothiophenes                    | mg/kg | 0.04  |                                     |                       |                      | -                  | -                  | -                  | -                  | -                  | -                  |
| C3 Fluoranthenes/Pyrenes                | mg/kg | 0.04  |                                     |                       |                      | -                  | -                  | -                  | -                  | -                  | -                  |
| C3 Fluorenes                            | mg/kg | 0.04  |                                     |                       |                      | -                  | -                  | -                  | -                  | -                  | -                  |
| C3 Naphthalenes                         | mg/kg | 0.04  |                                     |                       |                      | -                  | -                  | -                  | -                  | -                  | -                  |
| C3 Phenanthrenes/Anthracenes            | mg/kg | 0.04  |                                     |                       |                      | -                  | -                  | -                  | -                  | -                  | -                  |
| <b>Saturated Paste Extractables</b>     |       |       |                                     |                       |                      |                    |                    |                    |                    |                    |                    |
| Sulfur (as SO4)                         | mg/kg | 9.5   |                                     |                       |                      | 484 <sup>#1</sup>  | 80 <sup>#1</sup>   | 448 <sup>#1</sup>  | 480 <sup>#1</sup>  | 460 <sup>#1</sup>  | 605 <sup>#1</sup>  |
| Calcium                                 | mg/kg | 1.6   |                                     |                       |                      | 99 <sup>#1</sup>   | 19 <sup>#1</sup>   | 104 <sup>#1</sup>  | 104 <sup>#1</sup>  | 104 <sup>#1</sup>  | 167 <sup>#1</sup>  |
| Chloride                                | mg/kg | 6.4   |                                     |                       |                      | 58 <sup>#1</sup>   | <9 <sup>#1</sup>   | 97 <sup>#1</sup>   | 55 <sup>#1</sup>   | <70 <sup>#1</sup>  | 62 <sup>#1</sup>   |
| Saturation Percentage                   | %     | 1     |                                     |                       |                      | 252                | 45.2               | 236                | 267                | 351                | 186                |
| Electrical Conductivity (lab)           | dS/m  | 0.01  |                                     |                       |                      | 0.566              | 0.569              | 0.607              | 0.566              | 0.481              | 1.18               |
| Magnesium                               | mg/kg | 0.95  |                                     |                       |                      | 25.5 <sup>#1</sup> | 4.3 <sup>#1</sup>  | 28.6 <sup>#1</sup> | 29.9 <sup>#1</sup> | 29 <sup>#1</sup>   | 53.5 <sup>#1</sup> |
| pH (Lab)                                | pH    | 0.1   | 6-8.5                               |                       |                      | 5.97               | 5.73               | 5.93               | 6.44               | 5.8                | 6.86               |
| Potassium                               | mg/kg | 0.64  |                                     |                       |                      | 8 <sup>#1</sup>    | 2.47 <sup>#1</sup> | 10.7 <sup>#1</sup> | 12.6 <sup>#1</sup> | 9.2 <sup>#1</sup>  | 23.2 <sup>#1</sup> |
| Sodium                                  | mg/kg | 0.64  |                                     |                       |                      | 145 <sup>#1</sup>  | 25.7 <sup>#1</sup> | 144 <sup>#1</sup>  | 163 <sup>#1</sup>  | 164 <sup>#1</sup>  | 201 <sup>#1</sup>  |
| Sodium Adsorption Ratio                 | ---   | 0.1   |                                     |                       |                      | 2.12 <sup>#1</sup> | 2.06 <sup>#1</sup> | 2.09 <sup>#1</sup> | 2.25 <sup>#1</sup> | 1.96 <sup>#1</sup> | 2.54 <sup>#1</sup> |
| <b>Speciated Metals</b>                 |       |       |                                     |                       |                      |                    |                    |                    |                    |                    |                    |
| Chromium (hexavalent)                   | mg/kg | 0.1   | 0.4                                 |                       |                      | <0.2               | <0.1               | <0.15              | <0.2               | <0.2               | <0.2               |
| <b>Volatile Organic Compounds</b>       |       |       |                                     |                       |                      |                    |                    |                    |                    |                    |                    |
| Benzene                                 | mg/kg | 0.005 | 0.046                               |                       |                      | -                  | -                  | -                  | -                  | -                  | -                  |
| Toluene                                 | mg/kg | 0.05  | 0.52                                |                       |                      | -                  | -                  | -                  | -                  | -                  | -                  |
| Ethylbenzene                            | mg/kg | 0.01  | 0.11                                |                       |                      | -                  | -                  | -                  | -                  | -                  | -                  |
| Xylene (m & p)                          | mg/kg | 0.05  |                                     |                       |                      | -                  | -                  | -                  | -                  | -                  | -                  |
| Xylene (o)                              | mg/kg | 0.05  |                                     |                       |                      | -                  | -                  | -                  | -                  | -                  | -                  |
| Xylenes Total                           | mg/kg | 0.1   | 15                                  |                       |                      | -                  | -                  | -                  | -                  | -                  | -                  |
| Styrene                                 | mg/kg | 0.05  | 0.68                                |                       |                      | -                  | -                  | -                  | -                  | -                  | -                  |

Comments  
#1 CALC

OBED MOUNTAIN MINE  
SOIL/SEDIMENT TABLE  
TABLE 4 - APETOWUN CREEK HEADWATERS

Monitoring Zone  
Location  
Date  
Depth (m)  
Lab Report  
Easting (NAD83 Zone 11N)  
Northing (NAD83 Zone 11N)

| ENV669    |          |          | ENV669S   |          | ENV670    |          |
|-----------|----------|----------|-----------|----------|-----------|----------|
| 30-Jan-14 |          |          | 30-Jan-14 |          | 30-Jan-14 |          |
| 0.2-0.5   | 0.5-1    | 0-0.2    | 0.08-0    | 0.2-0.5  | 0.5-1     |          |
| L1417727  | L1417727 | L1417727 | L1417727  | L1417727 | L1417727  | L1417727 |
| 471022    | 471022   | 471022   | 471022    | 471015   | 471015    |          |
| 5938627   | 5938627  | 5938627  | 5938627   | 5938634  | 5938634   |          |

| Parameter                         | Unit         | MDL   | AB Tier 1, Natural Area (Fine Soil) | CSQG FW Sediment ISQG | CSQG FW Sediment PEL |                    |                    |                    |                    |                    |                    |
|-----------------------------------|--------------|-------|-------------------------------------|-----------------------|----------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|
| <b>Hydrocarbons</b>               |              |       |                                     |                       |                      |                    |                    |                    |                    |                    |                    |
| F2 (C10-C16 Hydrocarbons)         | mg/kg        | 20    |                                     |                       |                      | -                  | -                  | -                  | -                  | -                  | -                  |
| Total Hydrocarbons (C6-C50)       | mg/kg        | 20    |                                     |                       |                      | -                  | -                  | -                  | -                  | -                  | -                  |
| Chrom. to baseline at nC50        | -            |       |                                     |                       |                      | -                  | -                  | -                  | -                  | -                  | -                  |
| Gravimetric Heavy Hydrocarbons    | mg/kg        | 500   |                                     |                       |                      | -                  | -                  | -                  | -                  | -                  | -                  |
| TEH: (C16-C34)                    | mg/kg        | 20    |                                     |                       |                      | -                  | -                  | -                  | -                  | -                  | -                  |
| TEH: (C34-C50)                    | mg/kg        | 20    |                                     |                       |                      | -                  | -                  | -                  | -                  | -                  | -                  |
| TVH                               | mg/kg        | 10    |                                     |                       |                      | -                  | -                  | -                  | -                  | -                  | -                  |
| TVH: (C6-C10 / BTEX CORRECTED)    | mg/kg        | 10    |                                     |                       |                      | -                  | -                  | -                  | -                  | -                  | -                  |
| <b>Leachable Metals</b>           |              |       |                                     |                       |                      |                    |                    |                    |                    |                    |                    |
| Barium, extractable               | mg/kg        | 5     |                                     |                       |                      | 107                | 77.6               | 174                | 37.2               | 95.8               | 58.9               |
| Boron (B), Hot Water Ext.         | mg/kg        | 0.1   |                                     |                       |                      | 4.36               | 0.87               | 6.29               | 1.24               | 1.89               | 0.6                |
| <b>Metals</b>                     |              |       |                                     |                       |                      |                    |                    |                    |                    |                    |                    |
| Aluminium                         | mg/kg        | 50    |                                     |                       |                      | -                  | -                  | -                  | -                  | -                  | -                  |
| Antimony                          | mg/kg        | 0.1   | 20                                  |                       |                      | 0.39               | 0.42               | 0.68               | 0.35               | 0.41               | 0.2                |
| Arsenic                           | mg/kg        | 0.1   | 17                                  | 5.9                   | 17                   | 36.4               | 15.8               | 33.5               | 9.4                | 22.4               | 10.7               |
| Barium                            | mg/kg        | 0.5   | 750                                 |                       |                      | 1220               | 124                | 1450               | 658                | 866                | 293                |
| Beryllium                         | mg/kg        | 0.2   | 5                                   |                       |                      | <1                 | <1                 | <1                 | <1                 | <1                 | <1                 |
| Bismuth                           | mg/kg        | 0.2   |                                     |                       |                      | -                  | -                  | -                  | -                  | -                  | -                  |
| Cadmium                           | mg/kg        | 0.1   | 3.8                                 | 0.6                   | 3.5                  | 0.77               | <0.5               | 1.04               | <0.5               | 0.66               | <0.5               |
| Calcium                           | mg/kg        | 100   |                                     |                       |                      | -                  | -                  | -                  | -                  | -                  | -                  |
| Chromium (III+VI)                 | mg/kg        | 0.5   | 64                                  | 37.3                  | 90                   | 5.12               | 27.7               | 6.19               | 11.4               | 15                 | 28.9               |
| Cobalt                            | mg/kg        | 0.1   | 20                                  |                       |                      | 12.2               | 8.6                | 13.1               | 6                  | 13                 | 6.5                |
| Copper                            | mg/kg        | 0.5   | 63                                  | 35.7                  | 197                  | 8.5                | 21.2               | 12.3               | 14                 | 18.2               | 9.5                |
| Iron                              | mg/kg        | 50    |                                     |                       |                      | -                  | -                  | -                  | -                  | -                  | -                  |
| Lead                              | mg/kg        | 0.5   | 70                                  | 35                    | 91.3                 | <5                 | 6.3                | <5                 | 11.7               | 6.5                | 8.3                |
| Lithium                           | mg/kg        | 0.5   |                                     |                       |                      | -                  | -                  | -                  | -                  | -                  | -                  |
| Magnesium                         | mg/kg        | 20    |                                     |                       |                      | -                  | -                  | -                  | -                  | -                  | -                  |
| Manganese                         | mg/kg        | 1     |                                     |                       |                      | -                  | -                  | -                  | -                  | -                  | -                  |
| Mercury                           | mg/kg        | 0.005 | 12                                  | 0.17                  | 0.486                | 0.0545             | 0.119              | 0.0673             | 0.0757             | 0.115              | 0.0373             |
| Molybdenum                        | mg/kg        | 0.1   | 4                                   |                       |                      | 12.6               | 2.5                | 9.9                | 1.4                | 5.2                | 2                  |
| Nickel                            | mg/kg        | 0.5   | 50                                  |                       |                      | 25.9               | 26.1               | 32.8               | 17.4               | 25.3               | 22                 |
| Phosphorus                        | mg/kg        | 50    |                                     |                       |                      | -                  | -                  | -                  | -                  | -                  | -                  |
| Potassium                         | mg/kg        | 50    |                                     |                       |                      | -                  | -                  | -                  | -                  | -                  | -                  |
| Selenium                          | mg/kg        | 0.2   | 1                                   |                       |                      | 1.12               | <0.5               | 1.69               | 0.69               | 1.41               | <0.5               |
| Silver                            | mg/kg        | 0.2   | 20                                  |                       |                      | <1                 | <1                 | <1                 | <1                 | <1                 | <1                 |
| Sodium                            | mg/kg        | 100   |                                     |                       |                      | -                  | -                  | -                  | -                  | -                  | -                  |
| Strontium                         | mg/kg        | 1     |                                     |                       |                      | -                  | -                  | -                  | -                  | -                  | -                  |
| Thallium                          | mg/kg        | 0.05  | 1                                   |                       |                      | <0.5               | <0.5               | <0.5               | <0.5               | <0.5               | <0.5               |
| Tin                               | mg/kg        | 2     | 5                                   |                       |                      | <5                 | <5                 | <5                 | <5                 | <5                 | <5                 |
| Titanium                          | mg/kg        | 1     |                                     |                       |                      | -                  | -                  | -                  | -                  | -                  | -                  |
| Uranium                           | mg/kg        | 0.05  | 33                                  |                       |                      | <2                 | <2                 | 4.9                | 2.9                | 2.7                | <2                 |
| Vanadium                          | mg/kg        | 0.2   | 130                                 |                       |                      | 10                 | 20.6               | 10.2               | 16.9               | 21.4               | 23.8               |
| Zinc                              | mg/kg        | 5     | 200                                 | 123                   | 315                  | 56                 | 39                 | 57                 | 64                 | 37                 | 40                 |
| <b>Organic / Inorganic Carbon</b> |              |       |                                     |                       |                      |                    |                    |                    |                    |                    |                    |
| CaCO3 Equivalent                  | %            | 0.8   |                                     |                       |                      | 1.84               | 1.35               | 1.39               | 2.72               | 1.03               | <0.8               |
| Inorganic Carbon                  | mg/kg        | 0.1   |                                     |                       |                      | 0.22               | 0.16               | 0.17               | 0.33               | 0.12               | <0.1               |
| TOC                               | % dry weight | 0.1   |                                     |                       |                      | 20.1 <sup>#1</sup> | 4.22 <sup>#1</sup> | 21.9 <sup>#1</sup> | 9.78 <sup>#1</sup> | 22.9 <sup>#1</sup> | 4.48 <sup>#1</sup> |
| Total Carbon by Combustion        | %            | 0.1   |                                     |                       |                      | 20.3               | 4.4                | 22                 | 10.1               | 23                 | 4.5                |
| <b>Particle Size</b>              |              |       |                                     |                       |                      |                    |                    |                    |                    |                    |                    |
| Soil Particle Size (>75 um)       | % by weight  | 1     |                                     |                       |                      | 8.3                | 51.3               | 75.7               | 26.3               | 26                 | 35.4               |
| <b>Physical Tests</b>             |              |       |                                     |                       |                      |                    |                    |                    |                    |                    |                    |
| Moisture                          | %            | 0.1   |                                     |                       |                      | 72.8               | 46.6               | 72.7               | 55.6               | 67.7               | 35.9               |

OBED MOUNTAIN MINE  
SOIL/SEDIMENT TABLE  
TABLE 4 - APETOWUN CREEK HEADWATERS

Monitoring Zone  
Location  
Date  
Depth (m)  
Lab Report  
Easting (NAD83 Zone 11N)  
Northing (NAD83 Zone 11N)

| ENV669    |          |          | ENV669S   |          | ENV670    |          |
|-----------|----------|----------|-----------|----------|-----------|----------|
| 30-Jan-14 |          |          | 30-Jan-14 |          | 30-Jan-14 |          |
| 0.2-0.5   | 0.5-1    | 0-0.2    | 0.08-0    | 0.2-0.5  | 0.5-1     |          |
| L1417727  | L1417727 | L1417727 | L1417727  | L1417727 | L1417727  | L1417727 |
| 471022    | 471022   | 471022   | 471022    | 471015   | 471015    |          |
| 5938627   | 5938627  | 5938627  | 5938627   | 5938634  | 5938634   |          |

| Parameter                               | Unit  | MDL   | AB Tier 1, Natural Area (Fine Soil) | CSQG FW Sediment ISQG | CSQG FW Sediment PEL |                    |                    |                    |                    |                    |                    |
|---|-------|-------|-------------------------------------|-----------------------|----------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|
| <b>Polycyclic Aromatic Hydrocarbons</b> |       |       |                                     |                       |                      |                    |                    |                    |                    |                    |                    |
| Benzo[b]fluoranthene                    | mg/kg | 0.005 | 6.2                                 |                       |                      | -                  | -                  | -                  | -                  | -                  | -                  |
| C4 Benzantracenes/Chrysenes             | mg/kg | 0.04  |                                     |                       |                      | -                  | -                  | -                  | -                  | -                  | -                  |
| C4 Dibenzothiophenes                    | mg/kg | 0.04  |                                     |                       |                      | -                  | -                  | -                  | -                  | -                  | -                  |
| C4 Fluoranthenes/Pyrenes                | mg/kg | 0.04  |                                     |                       |                      | -                  | -                  | -                  | -                  | -                  | -                  |
| C4 Naphthalenes                         | mg/kg | 0.04  |                                     |                       |                      | -                  | -                  | -                  | -                  | -                  | -                  |
| C4 Phenanthrenes/Anthracenes            | mg/kg | 0.04  |                                     |                       |                      | -                  | -                  | -                  | -                  | -                  | -                  |
| Biphenyl                                | mg/kg | 0.01  |                                     |                       |                      | -                  | -                  | -                  | -                  | -                  | -                  |
| 1-Methylnaphthalene                     | mg/kg | 0.01  |                                     |                       |                      | -                  | -                  | -                  | -                  | -                  | -                  |
| 2-methylnaphthalene                     | mg/kg | 0.005 |                                     | 0.0202                | 0.201                | -                  | -                  | -                  | -                  | -                  | -                  |
| Acenaphthene                            | mg/kg | 0.005 | 0.32                                | 0.00671               | 0.0899               | -                  | -                  | -                  | -                  | -                  | -                  |
| Acenaphthylene                          | mg/kg | 0.005 | 5                                   | 0.00587               | 0.128                | -                  | -                  | -                  | -                  | -                  | -                  |
| Anthracene                              | mg/kg | 0.004 | 0.0046                              | 0.00469               | 0.245                | -                  | -                  | -                  | -                  | -                  | -                  |
| Benz(a)anthracene                       | mg/kg | 0.005 | 0.07                                | 0.0317                | 0.385                | -                  | -                  | -                  | -                  | -                  | -                  |
| Benzo(a)pyrene                          | mg/kg | 0.005 | 0.6                                 | 0.0319                | 0.782                | -                  | -                  | -                  | -                  | -                  | -                  |
| Acridine                                | mg/kg | 0.005 |                                     |                       |                      | -                  | -                  | -                  | -                  | -                  | -                  |
| Benzo(e)pyrene                          | mg/kg | 0.01  |                                     |                       |                      | -                  | -                  | -                  | -                  | -                  | -                  |
| Benzo(g,h,i)perylene                    | mg/kg | 0.005 |                                     |                       |                      | -                  | -                  | -                  | -                  | -                  | -                  |
| Benzo(k)fluoranthene                    | mg/kg | 0.005 | 6.2                                 |                       |                      | -                  | -                  | -                  | -                  | -                  | -                  |
| C1 Acenaphthenes                        | mg/kg | 0.04  |                                     |                       |                      | -                  | -                  | -                  | -                  | -                  | -                  |
| C1 Benz(a)Anthracenes/Chrysenes         | mg/kg | 0.04  |                                     |                       |                      | -                  | -                  | -                  | -                  | -                  | -                  |
| C1 Benzofluoranthenes/Benzopyrenes      | mg/kg | 0.04  |                                     |                       |                      | -                  | -                  | -                  | -                  | -                  | -                  |
| C1 Biphenyls                            | mg/kg | 0.04  |                                     |                       |                      | -                  | -                  | -                  | -                  | -                  | -                  |
| C1 Dibenzothiophenes                    | mg/kg | 0.04  |                                     |                       |                      | -                  | -                  | -                  | -                  | -                  | -                  |
| Chrysene                                | mg/kg | 0.005 | 6.2                                 | 0.0571                | 0.862                | -                  | -                  | -                  | -                  | -                  | -                  |
| C1 Fluoranthenes/Pyrenes                | mg/kg | 0.04  |                                     |                       |                      | -                  | -                  | -                  | -                  | -                  | -                  |
| C1 Fluorenes                            | mg/kg | 0.04  |                                     |                       |                      | -                  | -                  | -                  | -                  | -                  | -                  |
| C1 Phenanthrenes/Anthracenes            | mg/kg | 0.04  |                                     |                       |                      | -                  | -                  | -                  | -                  | -                  | -                  |
| Dibenz(a,h)anthracene                   | mg/kg | 0.005 | 7.4                                 | 0.00622               | 0.135                | -                  | -                  | -                  | -                  | -                  | -                  |
| Dibenzothiophene                        | mg/kg | 0.01  |                                     |                       |                      | -                  | -                  | -                  | -                  | -                  | -                  |
| Fluoranthene                            | mg/kg | 0.005 | 0.032                               | 0.111                 | 2.355                | -                  | -                  | -                  | -                  | -                  | -                  |
| Fluorene                                | mg/kg | 0.005 | 0.29                                | 0.0212                | 0.144                | -                  | -                  | -                  | -                  | -                  | -                  |
| Indeno(1,2,3-c,d)pyrene                 | mg/kg | 0.005 |                                     |                       |                      | -                  | -                  | -                  | -                  | -                  | -                  |
| Naphthalene                             | mg/kg | 0.005 | 0.016                               | 0.0346                | 0.391                | -                  | -                  | -                  | -                  | -                  | -                  |
| Perylene                                | mg/kg | 0.01  |                                     |                       |                      | -                  | -                  | -                  | -                  | -                  | -                  |
| Phenanthrene                            | mg/kg | 0.005 | 0.051                               | 0.0419                | 0.515                | -                  | -                  | -                  | -                  | -                  | -                  |
| Pyrene                                  | mg/kg | 0.005 | 0.034                               | 0.053                 | 0.875                | -                  | -                  | -                  | -                  | -                  | -                  |
| Quinoline                               | mg/kg | 0.005 |                                     |                       |                      | -                  | -                  | -                  | -                  | -                  | -                  |
| Retene                                  | mg/kg | 0.01  |                                     |                       |                      | -                  | -                  | -                  | -                  | -                  | -                  |
| C2 Benzofluoranthenes/Benzopyrenes      | mg/kg | 0.04  |                                     |                       |                      | -                  | -                  | -                  | -                  | -                  | -                  |
| C2 Biphenyls                            | mg/kg | 0.04  |                                     |                       |                      | -                  | -                  | -                  | -                  | -                  | -                  |
| C2 Dibenzothiophenes                    | mg/kg | 0.04  |                                     |                       |                      | -                  | -                  | -                  | -                  | -                  | -                  |
| C2 Fluoranthenes/Pyrenes                | mg/kg | 0.04  |                                     |                       |                      | -                  | -                  | -                  | -                  | -                  | -                  |
| C2 Naphthalenes                         | mg/kg | 0.04  |                                     |                       |                      | -                  | -                  | -                  | -                  | -                  | -                  |
| C2 Phenanthrenes/Anthracenes            | mg/kg | 0.04  |                                     |                       |                      | -                  | -                  | -                  | -                  | -                  | -                  |
| C2 Fluorenes                            | mg/kg | 0.04  |                                     |                       |                      | -                  | -                  | -                  | -                  | -                  | -                  |
| C2 subd B(a)Anthracenes/Chrysenes       | mg/kg | 0.04  |                                     |                       |                      | -                  | -                  | -                  | -                  | -                  | -                  |
| C3 Benzantracenes/Chrysenes             | mg/kg | 0.04  |                                     |                       |                      | -                  | -                  | -                  | -                  | -                  | -                  |
| C3 Dibenzothiophenes                    | mg/kg | 0.04  |                                     |                       |                      | -                  | -                  | -                  | -                  | -                  | -                  |
| C3 Fluoranthenes/Pyrenes                | mg/kg | 0.04  |                                     |                       |                      | -                  | -                  | -                  | -                  | -                  | -                  |
| C3 Fluorenes                            | mg/kg | 0.04  |                                     |                       |                      | -                  | -                  | -                  | -                  | -                  | -                  |
| C3 Naphthalenes                         | mg/kg | 0.04  |                                     |                       |                      | -                  | -                  | -                  | -                  | -                  | -                  |
| C3 Phenanthrenes/Anthracenes            | mg/kg | 0.04  |                                     |                       |                      | -                  | -                  | -                  | -                  | -                  | -                  |
| <b>Saturated Paste Extractables</b>     |       |       |                                     |                       |                      |                    |                    |                    |                    |                    |                    |
| Sulfur (as SO4)                         | mg/kg | 9.5   |                                     |                       |                      | 296 <sup>#1</sup>  | 86 <sup>#1</sup>   | 476 <sup>#1</sup>  | 267 <sup>#1</sup>  | 283 <sup>#1</sup>  | 183 <sup>#1</sup>  |
| Calcium                                 | mg/kg | 1.6   |                                     |                       |                      | 60 <sup>#1</sup>   | 41.6 <sup>#1</sup> | 124 <sup>#1</sup>  | 194 <sup>#1</sup>  | 64.2 <sup>#1</sup> | 36.1 <sup>#1</sup> |
| Chloride                                | mg/kg | 6.4   |                                     |                       |                      | 45 <sup>#1</sup>   | <10 <sup>#1</sup>  | <52 <sup>#1</sup>  | 36 <sup>#1</sup>   | <29 <sup>#1</sup>  | 23 <sup>#1</sup>   |
| Saturation Percentage                   | %     | 1     |                                     |                       |                      | 178                | 50.9               | 259                | 112                | 144                | 52.3               |
| Electrical Conductivity (lab)           | dS/m  | 0.01  |                                     |                       |                      | 0.498              | 0.623              | 0.642              | 1.75               | 0.623              | 0.847              |
| Magnesium                               | mg/kg | 0.95  |                                     |                       |                      | 16.7 <sup>#1</sup> | 4.3 <sup>#1</sup>  | 34.4 <sup>#1</sup> | 52.4 <sup>#1</sup> | 17.8 <sup>#1</sup> | 10.8 <sup>#1</sup> |
| pH (Lab)                                | pH    | 0.1   | 6-8.5                               |                       |                      | 6.28               | 5.73               | 6.42               | 6.84               | 6.61               | 6.83               |
| Potassium                               | mg/kg | 0.64  |                                     |                       |                      | 4.9 <sup>#1</sup>  | 2.7 <sup>#1</sup>  | 8.6 <sup>#1</sup>  | 26 <sup>#1</sup>   | 5.7 <sup>#1</sup>  | 5.1 <sup>#1</sup>  |
| Sodium                                  | mg/kg | 0.64  |                                     |                       |                      | 91.1 <sup>#1</sup> | 10.7 <sup>#1</sup> | 161 <sup>#1</sup>  | 227 <sup>#1</sup>  | 98.7 <sup>#1</sup> | 37.5 <sup>#1</sup> |
| Sodium Adsorption Ratio                 | ---   | 0.1   |                                     |                       |                      | 2.01 <sup>#1</sup> | 0.59 <sup>#1</sup> | 2.05 <sup>#1</sup> | 3.54 <sup>#1</sup> | 2.34 <sup>#1</sup> | 1.94 <sup>#1</sup> |
| <b>Speciated Metals</b>                 |       |       |                                     |                       |                      |                    |                    |                    |                    |                    |                    |
| Chromium (hexavalent)                   | mg/kg | 0.1   | 0.4                                 |                       |                      | <0.15              | <0.1               | <0.2               | <0.1               | 0.18               | <0.1               |
| <b>Volatile Organic Compounds</b>       |       |       |                                     |                       |                      |                    |                    |                    |                    |                    |                    |
| Benzene                                 | mg/kg | 0.005 | 0.046                               |                       |                      | -                  | -                  | -                  | -                  | -                  | -                  |
| Toluene                                 | mg/kg | 0.05  | 0.52                                |                       |                      | -                  | -                  | -                  | -                  | -                  | -                  |
| Ethylbenzene                            | mg/kg | 0.01  | 0.11                                |                       |                      | -                  | -                  | -                  | -                  | -                  | -                  |
| Xylene (m & p)                          | mg/kg | 0.05  |                                     |                       |                      | -                  | -                  | -                  | -                  | -                  | -                  |
| Xylene (o)                              | mg/kg | 0.05  |                                     |                       |                      | -                  | -                  | -                  | -                  | -                  | -                  |
| Xylenes Total                           | mg/kg | 0.1   | 15                                  |                       |                      | -                  | -                  | -                  | -                  | -                  | -                  |
| Styrene                                 | mg/kg | 0.05  | 0.68                                |                       |                      | -                  | -                  | -                  | -                  | -                  | -                  |

Comments  
#1 CALC

OBED MOUNTAIN MINE  
SOIL/SEDIMENT TABLE  
TABLE 4 - APETOWUN CREEK HEADWATERS

Monitoring Zone  
Location  
Date  
Depth (m)  
Lab Report  
Easting (NAD83 Zone 11N)  
Northing (NAD83 Zone 11N)

| ENV670S   |          | ENV671    |          |          | ENV671S   |          |
|-----------|----------|-----------|----------|----------|-----------|----------|
| 30-Jan-14 |          | 30-Jan-14 |          |          | 30-Jan-14 |          |
| 0-0.2     | 0.1-0    | 0.2-0.5   | 0.5-1    | 0-0.2    | 0.06-0    | 0.2-0.5  |
| L1417727  | L1417727 | L1417727  | L1417727 | L1417727 | L1417727  | L1417727 |
| 471015    | 471015   | 471008    | 471008   | 471008   | 471008    | 471023   |
| 5938634   | 5938634  | 5938632   | 5938632  | 5938632  | 5938632   | 5938648  |

| Parameter                         | Unit         | MDL   | AB Tier 1,<br>Natural Area<br>(Fine Soil) | CSQG FW<br>Sediment<br>ISQG | CSQG FW<br>Sediment PEL |                    |                    |                    |                    |                  |                    |                    |
|-----------------------------------|--------------|-------|---|-----------------------------|-------------------------|--------------------|--------------------|--------------------|--------------------|------------------|--------------------|--------------------|
| <b>Hydrocarbons</b>               |              |       |   |                             |                         |                    |                    |                    |                    |                  |                    |                    |
| F2 (C10-C16 Hydrocarbons)         | mg/kg        | 20    |   |                             |                         | -                  | -                  | -                  | -                  | -                | -                  | -                  |
| Total Hydrocarbons (C6-C50)       | mg/kg        | 20    |   |                             |                         | -                  | -                  | -                  | -                  | -                | -                  | -                  |
| Chrom. to baseline at nC50        | -            |       |   |                             |                         | -                  | -                  | -                  | -                  | -                | -                  | -                  |
| Gravimetric Heavy Hydrocarbons    | mg/kg        | 500   |   |                             |                         | -                  | -                  | -                  | -                  | -                | -                  | -                  |
| TEH: (C16-C34)                    | mg/kg        | 20    |   |                             |                         | -                  | -                  | -                  | -                  | -                | -                  | -                  |
| TEH: (C34-C50)                    | mg/kg        | 20    |   |                             |                         | -                  | -                  | -                  | -                  | -                | -                  | -                  |
| TVH                               | mg/kg        | 10    |   |                             |                         | -                  | -                  | -                  | -                  | -                | -                  | -                  |
| TVH: (C6-C10 / BTEX CORRECTED)    | mg/kg        | 10    |   |                             |                         | -                  | -                  | -                  | -                  | -                | -                  | -                  |
| <b>Leachable Metals</b>           |              |       |   |                             |                         |                    |                    |                    |                    |                  |                    |                    |
| Barium, extractable               | mg/kg        | 5     |   |                             |                         | 52.9               | 49                 | 116                | 106                | 35.5             | 23.2               | 101                |
| Boron (B), Hot Water Ext.         | mg/kg        | 0.1   |   |                             |                         | 5.95               | 0.59               | 2.64               | 1.27               | 5.35             | 0.8                | 2                  |
| <b>Metals</b>                     |              |       |   |                             |                         |                    |                    |                    |                    |                  |                    |                    |
| Aluminium                         | mg/kg        | 50    |   |                             |                         | -                  | -                  | -                  | -                  | -                | -                  | -                  |
| Antimony                          | mg/kg        | 0.1   | 20  |                             |                         | 0.55               | 0.27               | 0.28               | 0.26               | 0.58             | 0.36               | 0.61               |
| Arsenic                           | mg/kg        | 0.1   | 17  | 5.9                         | 17                      | 8.13               | 7.19               | 12.5               | 12.8               | 7.14             | 9.16               | 18.7               |
| Barium                            | mg/kg        | 0.5   | 750                                       |                             |                         | 728                | 480                | 753                | 318                | 322              | 722                | 462                |
| Beryllium                         | mg/kg        | 0.2   | 5   |                             |                         | <1                 | <1                 | <1                 | <1                 | <1               | <1                 | <1                 |
| Bismuth                           | mg/kg        | 0.2   |   |                             |                         | -                  | -                  | -                  | -                  | -                | -                  | -                  |
| Cadmium                           | mg/kg        | 0.1   | 3.8                                       | 0.6                         | 3.5                     | 1.07               | <0.5               | 0.79               | <0.5               | 0.58             | <0.5               | 0.8                |
| Calcium                           | mg/kg        | 100   |   |                             |                         | -                  | -                  | -                  | -                  | -                | -                  | -                  |
| Chromium (III+VI)                 | mg/kg        | 0.5   | 64  | 37.3                        | 90                      | 10.8               | 10                 | 6.59               | 38.9               | 7.79             | 10.2               | 9.3                |
| Cobalt                            | mg/kg        | 0.1   | 20  |                             |                         | 6.4                | 5.2                | 18                 | 6.1                | 10               | 6.7                | 4.3                |
| Copper                            | mg/kg        | 0.5   | 63  | 35.7                        | 197                     | 19.9               | 9                  | 7                  | 9.7                | 12.2             | 10.3               | 23.1               |
| Iron                              | mg/kg        | 50    |   |                             |                         | -                  | -                  | -                  | -                  | -                | -                  | -                  |
| Lead                              | mg/kg        | 0.5   | 70  | 35                          | 91.3                    | <5                 | 8.6                | <5                 | 6                  | <5               | 10.5               | <5                 |
| Lithium                           | mg/kg        | 0.5   |   |                             |                         | -                  | -                  | -                  | -                  | -                | -                  | -                  |
| Magnesium                         | mg/kg        | 20    |   |                             |                         | -                  | -                  | -                  | -                  | -                | -                  | -                  |
| Manganese                         | mg/kg        | 1     |   |                             |                         | -                  | -                  | -                  | -                  | -                | -                  | -                  |
| Mercury                           | mg/kg        | 0.005 | 12  | 0.17                        | 0.486                   | 0.0874             | 0.055              | 0.0609             | 0.0457             | 0.0593           | 0.0633             | <0.005             |
| Molybdenum                        | mg/kg        | 0.1   | 4   |                             |                         | 7.8                | <1                 | 10                 | 3.3                | 15.9             | 2.5                | 1.8                |
| Nickel                            | mg/kg        | 0.5   | 50  |                             |                         | 25.5               | 14.1               | 14.3               | 26.8               | 19.5             | 15.9               | 22.9               |
| Phosphorus                        | mg/kg        | 50    |   |                             |                         | -                  | -                  | -                  | -                  | -                | -                  | -                  |
| Potassium                         | mg/kg        | 50    |   |                             |                         | -                  | -                  | -                  | -                  | -                | -                  | -                  |
| Selenium                          | mg/kg        | 0.2   | 1   |                             |                         | 1.81               | <0.5               | 0.96               | 0.76               | 1.71             | 0.55               | 2.18               |
| Silver                            | mg/kg        | 0.2   | 20  |                             |                         | <1                 | <1                 | <1                 | <1                 | <1               | <1                 | <1                 |
| Sodium                            | mg/kg        | 100   |   |                             |                         | -                  | -                  | -                  | -                  | -                | -                  | -                  |
| Strontium                         | mg/kg        | 1     |   |                             |                         | -                  | -                  | -                  | -                  | -                | -                  | -                  |
| Thallium                          | mg/kg        | 0.05  | 1   |                             |                         | <0.5               | <0.5               | <0.5               | <0.5               | <0.5             | <0.5               | <0.5               |
| Tin                               | mg/kg        | 2     | 5   |                             |                         | <5                 | <5                 | <5                 | <5                 | <5               | <5                 | <5                 |
| Titanium                          | mg/kg        | 1     |   |                             |                         | -                  | -                  | -                  | -                  | -                | -                  | -                  |
| Uranium                           | mg/kg        | 0.05  | 33  |                             |                         | 9.5                | <2                 | 2.6                | 2.9                | 18.7             | <2                 | 2.2                |
| Vanadium                          | mg/kg        | 0.2   | 130                                       |                             |                         | 19                 | 14.8               | 12.8               | 17.7               | 8.9              | 16.3               | 17.1               |
| Zinc                              | mg/kg        | 5     | 200                                       | 123                         | 315                     | 56                 | 43                 | 39                 | 27                 | 33               | 53                 | 18                 |
| <b>Organic / Inorganic Carbon</b> |              |       |   |                             |                         |                    |                    |                    |                    |                  |                    |                    |
| CaCO3 Equivalent                  | %            | 0.8   |   |                             |                         | 1.83               | 3.28               | <0.8               | <0.8               | 1.24             | 2.98               | 0.95               |
| Inorganic Carbon                  | mg/kg        | 0.1   |   |                             |                         | 0.22               | 0.39               | <0.1               | <0.1               | 0.15             | 0.36               | 0.11               |
| TOC                               | % dry weight | 0.1   |   |                             |                         | 21.4 <sup>#1</sup> | 4.34 <sup>#1</sup> | 15.2 <sup>#1</sup> | 8.46 <sup>#1</sup> | 32 <sup>#1</sup> | 6.63 <sup>#1</sup> | 31.4 <sup>#1</sup> |
| Total Carbon by Combustion        | %            | 0.1   |   |                             |                         | 21.6               | 4.7                | 15.2               | 8.5                | 32.1             | 7                  | 31.5               |
| <b>Particle Size</b>              |              |       |   |                             |                         |                    |                    |                    |                    |                  |                    |                    |
| Soil Particle Size (>75 um)       | % by weight  | 1     |   |                             |                         | 26.1               | 48.5               | 33.6               | 25.4               | 19.9             | 38.2               | 43.6               |
| <b>Physical Tests</b>             |              |       |   |                             |                         |                    |                    |                    |                    |                  |                    |                    |
| Moisture                          | %            | 0.1   |   |                             |                         | 79.4               | 34.8               | 68.6               | 47.2               | 82.3             | 45                 | 74.7               |

OBED MOUNTAIN MINE  
SOIL/SEDIMENT TABLE  
TABLE 4 - APETOWUN CREEK HEADWATERS

Monitoring Zone  
Location  
Date  
Depth (m)  
Lab Report  
Easting (NAD83 Zone 11N)  
Northing (NAD83 Zone 11N)

| ENV670S   |          | ENV671    |          |          | ENV671S   |          |
|-----------|----------|-----------|----------|----------|-----------|----------|
| 30-Jan-14 |          | 30-Jan-14 |          |          | 30-Jan-14 |          |
| 0-0.2     | 0.1-0    | 0.2-0.5   | 0.5-1    | 0-0.2    | 0.06-0    | 0.2-0.5  |
| L1417727  | L1417727 | L1417727  | L1417727 | L1417727 | L1417727  | L1417727 |
| 471015    | 471015   | 471008    | 471008   | 471008   | 471008    | 471023   |
| 5938634   | 5938634  | 5938632   | 5938632  | 5938632  | 5938632   | 5938648  |

| Parameter                               | Unit  | MDL   | AB Tier 1, Natural Area (Fine Soil) | CSQG FW Sediment ISQG | CSQG FW Sediment PEL |                    |                    |                    |                    |                    |                    |                    |
|---|-------|-------|-------------------------------------|-----------------------|----------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|
| <b>Polycyclic Aromatic Hydrocarbons</b> |       |       |                                     |                       |                      |                    |                    |                    |                    |                    |                    |                    |
| Benzo[b]fluoranthene                    | mg/kg | 0.005 | 6.2                                 |                       |                      | -                  | -                  | -                  | -                  | -                  | -                  |                    |
| C4 Benzantracenes/Chrysenes             | mg/kg | 0.04  |                                     |                       |                      | -                  | -                  | -                  | -                  | -                  | -                  |                    |
| C4 Dibenzothiophenes                    | mg/kg | 0.04  |                                     |                       |                      | -                  | -                  | -                  | -                  | -                  | -                  |                    |
| C4 Fluoranthenes/Pyrenes                | mg/kg | 0.04  |                                     |                       |                      | -                  | -                  | -                  | -                  | -                  | -                  |                    |
| C4 Naphthalenes                         | mg/kg | 0.04  |                                     |                       |                      | -                  | -                  | -                  | -                  | -                  | -                  |                    |
| C4 Phenanthrenes/Anthracenes            | mg/kg | 0.04  |                                     |                       |                      | -                  | -                  | -                  | -                  | -                  | -                  |                    |
| Biphenyl                                | mg/kg | 0.01  |                                     |                       |                      | -                  | -                  | -                  | -                  | -                  | -                  |                    |
| 1-Methylnaphthalene                     | mg/kg | 0.01  |                                     |                       |                      | -                  | -                  | -                  | -                  | -                  | -                  |                    |
| 2-methylnaphthalene                     | mg/kg | 0.005 |                                     | 0.0202                | 0.201                | -                  | -                  | -                  | -                  | -                  | -                  |                    |
| Acenaphthene                            | mg/kg | 0.005 | 0.32                                | 0.00671               | 0.0899               | -                  | -                  | -                  | -                  | -                  | -                  |                    |
| Acenaphthylene                          | mg/kg | 0.005 | 5                                   | 0.00587               | 0.128                | -                  | -                  | -                  | -                  | -                  | -                  |                    |
| Anthracene                              | mg/kg | 0.004 | 0.0046                              | 0.00469               | 0.245                | -                  | -                  | -                  | -                  | -                  | -                  |                    |
| Benz(a)anthracene                       | mg/kg | 0.005 | 0.07                                | 0.0317                | 0.385                | -                  | -                  | -                  | -                  | -                  | -                  |                    |
| Benzo(a)pyrene                          | mg/kg | 0.005 | 0.6                                 | 0.0319                | 0.782                | -                  | -                  | -                  | -                  | -                  | -                  |                    |
| Acridine                                | mg/kg | 0.005 |                                     |                       |                      | -                  | -                  | -                  | -                  | -                  | -                  |                    |
| Benzo(e)pyrene                          | mg/kg | 0.01  |                                     |                       |                      | -                  | -                  | -                  | -                  | -                  | -                  |                    |
| Benzo(g,h,i)perylene                    | mg/kg | 0.005 |                                     |                       |                      | -                  | -                  | -                  | -                  | -                  | -                  |                    |
| Benzo(k)fluoranthene                    | mg/kg | 0.005 | 6.2                                 |                       |                      | -                  | -                  | -                  | -                  | -                  | -                  |                    |
| C1 Acenaphthenes                        | mg/kg | 0.04  |                                     |                       |                      | -                  | -                  | -                  | -                  | -                  | -                  |                    |
| C1 Benz(a)Anthracenes/Chrysenes         | mg/kg | 0.04  |                                     |                       |                      | -                  | -                  | -                  | -                  | -                  | -                  |                    |
| C1 Benzofluoranthenes/Benzopyrenes      | mg/kg | 0.04  |                                     |                       |                      | -                  | -                  | -                  | -                  | -                  | -                  |                    |
| C1 Biphenyls                            | mg/kg | 0.04  |                                     |                       |                      | -                  | -                  | -                  | -                  | -                  | -                  |                    |
| C1 Dibenzothiophenes                    | mg/kg | 0.04  |                                     |                       |                      | -                  | -                  | -                  | -                  | -                  | -                  |                    |
| Chrysene                                | mg/kg | 0.005 | 6.2                                 | 0.0571                | 0.862                | -                  | -                  | -                  | -                  | -                  | -                  |                    |
| C1 Fluoranthenes/Pyrenes                | mg/kg | 0.04  |                                     |                       |                      | -                  | -                  | -                  | -                  | -                  | -                  |                    |
| C1 Fluorenes                            | mg/kg | 0.04  |                                     |                       |                      | -                  | -                  | -                  | -                  | -                  | -                  |                    |
| C1 Phenanthrenes/Anthracenes            | mg/kg | 0.04  |                                     |                       |                      | -                  | -                  | -                  | -                  | -                  | -                  |                    |
| Dibenz(a,h)anthracene                   | mg/kg | 0.005 | 7.4                                 | 0.00622               | 0.135                | -                  | -                  | -                  | -                  | -                  | -                  |                    |
| Dibenzothiophene                        | mg/kg | 0.01  |                                     |                       |                      | -                  | -                  | -                  | -                  | -                  | -                  |                    |
| Fluoranthene                            | mg/kg | 0.005 | 0.032                               | 0.111                 | 2.355                | -                  | -                  | -                  | -                  | -                  | -                  |                    |
| Fluorene                                | mg/kg | 0.005 | 0.29                                | 0.0212                | 0.144                | -                  | -                  | -                  | -                  | -                  | -                  |                    |
| Indeno(1,2,3-c,d)pyrene                 | mg/kg | 0.005 |                                     |                       |                      | -                  | -                  | -                  | -                  | -                  | -                  |                    |
| Naphthalene                             | mg/kg | 0.005 | 0.016                               | 0.0346                | 0.391                | -                  | -                  | -                  | -                  | -                  | -                  |                    |
| Perylene                                | mg/kg | 0.01  |                                     |                       |                      | -                  | -                  | -                  | -                  | -                  | -                  |                    |
| Phenanthrene                            | mg/kg | 0.005 | 0.051                               | 0.0419                | 0.515                | -                  | -                  | -                  | -                  | -                  | -                  |                    |
| Pyrene                                  | mg/kg | 0.005 | 0.034                               | 0.053                 | 0.875                | -                  | -                  | -                  | -                  | -                  | -                  |                    |
| Quinoline                               | mg/kg | 0.005 |                                     |                       |                      | -                  | -                  | -                  | -                  | -                  | -                  |                    |
| Retene                                  | mg/kg | 0.01  |                                     |                       |                      | -                  | -                  | -                  | -                  | -                  | -                  |                    |
| C2 Benzofluoranthenes/Benzopyrenes      | mg/kg | 0.04  |                                     |                       |                      | -                  | -                  | -                  | -                  | -                  | -                  |                    |
| C2 Biphenyls                            | mg/kg | 0.04  |                                     |                       |                      | -                  | -                  | -                  | -                  | -                  | -                  |                    |
| C2 Dibenzothiophenes                    | mg/kg | 0.04  |                                     |                       |                      | -                  | -                  | -                  | -                  | -                  | -                  |                    |
| C2 Fluoranthenes/Pyrenes                | mg/kg | 0.04  |                                     |                       |                      | -                  | -                  | -                  | -                  | -                  | -                  |                    |
| C2 Naphthalenes                         | mg/kg | 0.04  |                                     |                       |                      | -                  | -                  | -                  | -                  | -                  | -                  |                    |
| C2 Phenanthrenes/Anthracenes            | mg/kg | 0.04  |                                     |                       |                      | -                  | -                  | -                  | -                  | -                  | -                  |                    |
| C2 Fluorenes                            | mg/kg | 0.04  |                                     |                       |                      | -                  | -                  | -                  | -                  | -                  | -                  |                    |
| C2 subd B(a)Anthracenes/Chrysenes       | mg/kg | 0.04  |                                     |                       |                      | -                  | -                  | -                  | -                  | -                  | -                  |                    |
| C3 Benzantracenes/Chrysenes             | mg/kg | 0.04  |                                     |                       |                      | -                  | -                  | -                  | -                  | -                  | -                  |                    |
| C3 Dibenzothiophenes                    | mg/kg | 0.04  |                                     |                       |                      | -                  | -                  | -                  | -                  | -                  | -                  |                    |
| C3 Fluoranthenes/Pyrenes                | mg/kg | 0.04  |                                     |                       |                      | -                  | -                  | -                  | -                  | -                  | -                  |                    |
| C3 Fluorenes                            | mg/kg | 0.04  |                                     |                       |                      | -                  | -                  | -                  | -                  | -                  | -                  |                    |
| C3 Naphthalenes                         | mg/kg | 0.04  |                                     |                       |                      | -                  | -                  | -                  | -                  | -                  | -                  |                    |
| C3 Phenanthrenes/Anthracenes            | mg/kg | 0.04  |                                     |                       |                      | -                  | -                  | -                  | -                  | -                  | -                  |                    |
| <b>Saturated Paste Extractables</b>     |       |       |                                     |                       |                      |                    |                    |                    |                    |                    |                    |                    |
| Sulfur (as SO4)                         | mg/kg | 9.5   |                                     |                       |                      | 1090 <sup>#1</sup> | 96 <sup>#1</sup>   | 295 <sup>#1</sup>  | 132 <sup>#1</sup>  | 780 <sup>#1</sup>  | 275 <sup>#1</sup>  | 302 <sup>#1</sup>  |
| Calcium                                 | mg/kg | 1.6   |                                     |                       |                      | 187 <sup>#1</sup>  | 30 <sup>#1</sup>   | 48.7 <sup>#1</sup> | 29.2 <sup>#1</sup> | 156 <sup>#1</sup>  | 103 <sup>#1</sup>  | 70 <sup>#1</sup>   |
| Chloride                                | mg/kg | 6.4   |                                     |                       |                      | 147 <sup>#1</sup>  | 13.6 <sup>#1</sup> | 37 <sup>#1</sup>   | <16 <sup>#1</sup>  | <78 <sup>#1</sup>  | 16 <sup>#1</sup>   | <52 <sup>#1</sup>  |
| Saturation Percentage                   | %     | 1     |                                     |                       |                      | 367                | 44.2               | 136                | 79.2               | 391                | 72.4               | 261                |
| Electrical Conductivity (lab)           | dS/m  | 0.01  |                                     |                       |                      | 0.68               | 1.09               | 0.543              | 0.539              | 0.612              | 1.32               | 0.396              |
| Magnesium                               | mg/kg | 0.95  |                                     |                       |                      | 53 <sup>#1</sup>   | 7.5 <sup>#1</sup>  | 10.9 <sup>#1</sup> | 6 <sup>#1</sup>    | 43 <sup>#1</sup>   | 23.8 <sup>#1</sup> | 18.5 <sup>#1</sup> |
| pH (Lab)                                | pH    | 0.1   | 6-8.5                               |                       |                      | 6.77               | 7.55               | 5.96               | 5.46               | 6.67               | 7.23               | 6.11               |
| Potassium                               | mg/kg | 0.64  |                                     |                       |                      | 12.2 <sup>#1</sup> | 3.6 <sup>#1</sup>  | 5 <sup>#1</sup>    | <1.6 <sup>#1</sup> | 10 <sup>#1</sup>   | 8.5 <sup>#1</sup>  | 10.4 <sup>#1</sup> |
| Sodium                                  | mg/kg | 0.64  |                                     |                       |                      | 230 <sup>#1</sup>  | 68.3 <sup>#1</sup> | 76.2 <sup>#1</sup> | 40.9 <sup>#1</sup> | 267 <sup>#1</sup>  | 75.1 <sup>#1</sup> | 133 <sup>#1</sup>  |
| Sodium Adsorption Ratio                 | ---   | 0.1   |                                     |                       |                      | 2 <sup>#1</sup>    | 4.34 <sup>#1</sup> | 2.21 <sup>#1</sup> | 2.02 <sup>#1</sup> | 2.47 <sup>#1</sup> | 2.04 <sup>#1</sup> | 2.26 <sup>#1</sup> |
| <b>Speciated Metals</b>                 |       |       |                                     |                       |                      |                    |                    |                    |                    |                    |                    |                    |
| Chromium (hexavalent)                   | mg/kg | 0.1   | 0.4                                 |                       |                      | <0.2               | <0.1               | <0.15              | <0.1               | <0.25              | <0.1               | <0.15              |
| <b>Volatile Organic Compounds</b>       |       |       |                                     |                       |                      |                    |                    |                    |                    |                    |                    |                    |
| Benzene                                 | mg/kg | 0.005 | 0.046                               |                       |                      | -                  | -                  | -                  | -                  | -                  | -                  | -                  |
| Toluene                                 | mg/kg | 0.05  | 0.52                                |                       |                      | -                  | -                  | -                  | -                  | -                  | -                  | -                  |
| Ethylbenzene                            | mg/kg | 0.01  | 0.11                                |                       |                      | -                  | -                  | -                  | -                  | -                  | -                  | -                  |
| Xylene (m & p)                          | mg/kg | 0.05  |                                     |                       |                      | -                  | -                  | -                  | -                  | -                  | -                  | -                  |
| Xylene (o)                              | mg/kg | 0.05  |                                     |                       |                      | -                  | -                  | -                  | -                  | -                  | -                  | -                  |
| Xylenes Total                           | mg/kg | 0.1   | 15                                  |                       |                      | -                  | -                  | -                  | -                  | -                  | -                  | -                  |
| Styrene                                 | mg/kg | 0.05  | 0.68                                |                       |                      | -                  | -                  | -                  | -                  | -                  | -                  | -                  |

Comments  
#1 CALC



OBED MOUNTAIN MINE  
SOIL/SEDIMENT TABLE  
TABLE 4 - APETOWUN CREEK HEADWATERS

Monitoring Zone  
Location  
Date  
Depth (m)  
Lab Report  
Easting (NAD83 Zone 11N)  
Northing (NAD83 Zone 11N)

| ENV672    |          | ENV672S   |          | ENV673    |          |
|-----------|----------|-----------|----------|-----------|----------|
| 30-Jan-14 |          | 30-Jan-14 |          | 30-Jan-14 |          |
| 0.5-1     | 0-0.2    | 0.05-0    | 0.2-0.5  | 0.5-1     | 0-0.2    |
| L1417727  | L1417727 | L1417727  | L1417727 | L1417727  | L1417727 |
| 471023    | 471023   | 471023    | 471042   | 471042    | 471042   |
| 5938648   | 5938648  | 5938648   | 5938647  | 5938647   | 5938647  |

| Parameter                         | Unit         | MDL   | AB Tier 1,<br>Natural Area<br>(Fine Soil) | CSQG FW<br>Sediment<br>ISQG | CSQG FW<br>Sediment<br>PEL |                    |                    |                    |                    |                    |                    |
|-----------------------------------|--------------|-------|---|-----------------------------|----------------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|
| <b>Hydrocarbons</b>               |              |       |   |                             |                            |                    |                    |                    |                    |                    |                    |
| F2 (C10-C16 Hydrocarbons)         | mg/kg        | 20    |   |                             |                            | -                  | -                  | -                  | -                  | -                  | -                  |
| Total Hydrocarbons (C6-C50)       | mg/kg        | 20    |   |                             |                            | -                  | -                  | -                  | -                  | -                  | -                  |
| Chrom. to baseline at nC50        | -            |       |   |                             |                            | -                  | -                  | -                  | -                  | -                  | -                  |
| Gravimetric Heavy Hydrocarbons    | mg/kg        | 500   |   |                             |                            | -                  | -                  | -                  | -                  | -                  | -                  |
| TEH: (C16-C34)                    | mg/kg        | 20    |   |                             |                            | -                  | -                  | -                  | -                  | -                  | -                  |
| TEH: (C34-C50)                    | mg/kg        | 20    |   |                             |                            | -                  | -                  | -                  | -                  | -                  | -                  |
| TVH                               | mg/kg        | 10    |   |                             |                            | -                  | -                  | -                  | -                  | -                  | -                  |
| TVH: (C6-C10 / BTEX CORRECTED)    | mg/kg        | 10    |   |                             |                            | -                  | -                  | -                  | -                  | -                  | -                  |
| <b>Leachable Metals</b>           |              |       |   |                             |                            |                    |                    |                    |                    |                    |                    |
| Barium, extractable               | mg/kg        | 5     |   |                             |                            | 65.7               | 76.6               | 39.6               | 119                | 58.9               | 97.2               |
| Boron (B), Hot Water Ext.         | mg/kg        | 0.1   |   |                             |                            | 0.52               | 4.89               | 0.87               | 1.38               | 0.23               | 3.55               |
| <b>Metals</b>                     |              |       |   |                             |                            |                    |                    |                    |                    |                    |                    |
| Aluminium                         | mg/kg        | 50    |   |                             |                            | -                  | -                  | -                  | -                  | -                  | -                  |
| Antimony                          | mg/kg        | 0.1   | 20  |                             |                            | 0.25               | 0.31               | 0.32               | 0.36               | <0.2               | 0.56               |
| Arsenic                           | mg/kg        | 0.1   | 17  | 5.9                         | 17                         | 4.2                | 6.13               | 7.99               | 3.11               | 3.61               | 4.84               |
| Barium                            | mg/kg        | 0.5   | 750                                       |                             |                            | 192                | 377                | 563                | 481                | 157                | 636                |
| Beryllium                         | mg/kg        | 0.2   | 5   |                             |                            | <1                 | <1                 | <1                 | <1                 | <1                 | <1                 |
| Bismuth                           | mg/kg        | 0.2   |   |                             |                            | -                  | -                  | -                  | -                  | -                  | -                  |
| Cadmium                           | mg/kg        | 0.1   | 3.8                                       | 0.6                         | 3.5                        | <0.5               | <0.5               | <0.5               | 0.68               | <0.5               | 1.45               |
| Calcium                           | mg/kg        | 100   |   |                             |                            | -                  | -                  | -                  | -                  | -                  | -                  |
| Chromium (III+VI)                 | mg/kg        | 0.5   | 64  | 37.3                        | 90                         | 16.6               | 16.8               | 9.11               | 10.1               | 15.9               | 8.5                |
| Cobalt                            | mg/kg        | 0.1   | 20  |                             |                            | 6.3                | 4.8                | 5.6                | 3.9                | 6.3                | 6.9                |
| Copper                            | mg/kg        | 0.5   | 63  | 35.7                        | 197                        | 14.7               | 17.1               | 10.6               | 17.7               | 6.7                | 21.1               |
| Iron                              | mg/kg        | 50    |   |                             |                            | -                  | -                  | -                  | -                  | -                  | -                  |
| Lead                              | mg/kg        | 0.5   | 70  | 35                          | 91.3                       | 7.1                | 7.2                | 10.2               | <5                 | 7.2                | <5                 |
| Lithium                           | mg/kg        | 0.5   |   |                             |                            | -                  | -                  | -                  | -                  | -                  | -                  |
| Magnesium                         | mg/kg        | 20    |   |                             |                            | -                  | -                  | -                  | -                  | -                  | -                  |
| Manganese                         | mg/kg        | 1     |   |                             |                            | -                  | -                  | -                  | -                  | -                  | -                  |
| Mercury                           | mg/kg        | 0.005 | 12  | 0.17                        | 0.486                      | 0.0511             | 0.0818             | 0.0711             | 0.0639             | 0.032              | 0.102              |
| Molybdenum                        | mg/kg        | 0.1   | 4   |                             |                            | <1                 | 2.2                | 1.3                | 1.1                | <1                 | 2.2                |
| Nickel                            | mg/kg        | 0.5   | 50  |                             |                            | 18.7               | 20                 | 14                 | 18                 | 14.4               | 24.6               |
| Phosphorus                        | mg/kg        | 50    |   |                             |                            | -                  | -                  | -                  | -                  | -                  | -                  |
| Potassium                         | mg/kg        | 50    |   |                             |                            | -                  | -                  | -                  | -                  | -                  | -                  |
| Selenium                          | mg/kg        | 0.2   | 1   |                             |                            | <0.5               | 0.94               | <0.5               | 1.39               | <0.5               | 1.94               |
| Silver                            | mg/kg        | 0.2   | 20  |                             |                            | <1                 | <1                 | <1                 | <1                 | <1                 | <1                 |
| Sodium                            | mg/kg        | 100   |   |                             |                            | -                  | -                  | -                  | -                  | -                  | -                  |
| Strontium                         | mg/kg        | 1     |   |                             |                            | -                  | -                  | -                  | -                  | -                  | -                  |
| Thallium                          | mg/kg        | 0.05  | 1   |                             |                            | <0.5               | <0.5               | <0.5               | <0.5               | <0.5               | <0.5               |
| Tin                               | mg/kg        | 2     | 5   |                             |                            | <5                 | <5                 | <5                 | <5                 | <5                 | <5                 |
| Titanium                          | mg/kg        | 1     |   |                             |                            | -                  | -                  | -                  | -                  | -                  | -                  |
| Uranium                           | mg/kg        | 0.05  | 33  |                             |                            | <2                 | 2.5                | <2                 | <2                 | <2                 | 2                  |
| Vanadium                          | mg/kg        | 0.2   | 130                                       |                             |                            | 21.8               | 24.8               | 15.4               | 12                 | 20.5               | 11.3               |
| Zinc                              | mg/kg        | 5     | 200                                       | 123                         | 315                        | 58                 | 41                 | 49                 | 48                 | 47                 | 64                 |
| <b>Organic / Inorganic Carbon</b> |              |       |   |                             |                            |                    |                    |                    |                    |                    |                    |
| CaCO3 Equivalent                  | %            | 0.8   |   |                             |                            | 4.81               | 1.88               | 2.77               | 0.88               | 0.86               | 1.16               |
| Inorganic Carbon                  | mg/kg        | 0.1   |   |                             |                            | 0.58               | 0.23               | 0.33               | 0.11               | 0.1                | 0.14               |
| TOC                               | % dry weight | 0.1   |   |                             |                            | 1.87 <sup>#1</sup> | 14.6 <sup>#1</sup> | 11.1 <sup>#1</sup> | 28.2 <sup>#1</sup> | 4.69 <sup>#1</sup> | 34.8 <sup>#1</sup> |
| Total Carbon by Combustion        | %            | 0.1   |   |                             |                            | 2.4                | 14.8               | 11.4               | 28.3               | 4.8                | 34.9               |
| <b>Particle Size</b>              |              |       |   |                             |                            |                    |                    |                    |                    |                    |                    |
| Soil Particle Size (>75 um)       | % by weight  | 1     |   |                             |                            | 26.5               | 97.3               | 45.3               | 11.6               | 36.3               | 29.2               |
| <b>Physical Tests</b>             |              |       |   |                             |                            |                    |                    |                    |                    |                    |                    |
| Moisture                          | %            | 0.1   |   |                             |                            | 36.2               | 53.7               | 87.6               | 71.8               | 27.2               | 77.6               |

OBED MOUNTAIN MINE  
SOIL/SEDIMENT TABLE  
TABLE 4 - APETOWUN CREEK HEADWATERS

Monitoring Zone  
Location  
Date  
Depth (m)  
Lab Report  
Easting (NAD83 Zone 11N)  
Northing (NAD83 Zone 11N)

| ENV672    |          | ENV672S   |          | ENV673    |          |
|-----------|----------|-----------|----------|-----------|----------|
| 30-Jan-14 |          | 30-Jan-14 |          | 30-Jan-14 |          |
| 0.5-1     | 0-0.2    | 0.05-0    | 0.2-0.5  | 0.5-1     | 0-0.2    |
| L1417727  | L1417727 | L1417727  | L1417727 | L1417727  | L1417727 |
| 471023    | 471023   | 471023    | 471042   | 471042    | 471042   |
| 5938648   | 5938648  | 5938648   | 5938647  | 5938647   | 5938647  |

| Parameter                               | Unit  | MDL   | AB Tier 1, Natural Area (Fine Soil) | CSQG FW Sediment ISQG | CSQG FW Sediment PEL |                    |                    |                    |                    |                    |                    |
|---|-------|-------|-------------------------------------|-----------------------|----------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|
| <b>Polycyclic Aromatic Hydrocarbons</b> |       |       |                                     |                       |                      |                    |                    |                    |                    |                    |                    |
| Benzo[b]fluoranthene                    | mg/kg | 0.005 | 6.2                                 |                       |                      | -                  | -                  | -                  | -                  | -                  | -                  |
| C4 Benzantracenes/Chrysenes             | mg/kg | 0.04  |                                     |                       |                      | -                  | -                  | -                  | -                  | -                  | -                  |
| C4 Dibenzothiophenes                    | mg/kg | 0.04  |                                     |                       |                      | -                  | -                  | -                  | -                  | -                  | -                  |
| C4 Fluoranthenes/Pyrenes                | mg/kg | 0.04  |                                     |                       |                      | -                  | -                  | -                  | -                  | -                  | -                  |
| C4 Naphthalenes                         | mg/kg | 0.04  |                                     |                       |                      | -                  | -                  | -                  | -                  | -                  | -                  |
| C4 Phenanthrenes/Anthracenes            | mg/kg | 0.04  |                                     |                       |                      | -                  | -                  | -                  | -                  | -                  | -                  |
| Biphenyl                                | mg/kg | 0.01  |                                     |                       |                      | -                  | -                  | -                  | -                  | -                  | -                  |
| 1-Methylnaphthalene                     | mg/kg | 0.01  |                                     |                       |                      | -                  | -                  | -                  | -                  | -                  | -                  |
| 2-methylnaphthalene                     | mg/kg | 0.005 |                                     | 0.0202                | 0.201                | -                  | -                  | -                  | -                  | -                  | -                  |
| Acenaphthene                            | mg/kg | 0.005 | 0.32                                | 0.00671               | 0.0899               | -                  | -                  | -                  | -                  | -                  | -                  |
| Acenaphthylene                          | mg/kg | 0.005 | 5                                   | 0.00587               | 0.128                | -                  | -                  | -                  | -                  | -                  | -                  |
| Anthracene                              | mg/kg | 0.004 | 0.0046                              | 0.00469               | 0.245                | -                  | -                  | -                  | -                  | -                  | -                  |
| Benz(a)anthracene                       | mg/kg | 0.005 | 0.07                                | 0.0317                | 0.385                | -                  | -                  | -                  | -                  | -                  | -                  |
| Benzo(a)pyrene                          | mg/kg | 0.005 | 0.6                                 | 0.0319                | 0.782                | -                  | -                  | -                  | -                  | -                  | -                  |
| Acridine                                | mg/kg | 0.005 |                                     |                       |                      | -                  | -                  | -                  | -                  | -                  | -                  |
| Benzo(e)pyrene                          | mg/kg | 0.01  |                                     |                       |                      | -                  | -                  | -                  | -                  | -                  | -                  |
| Benzo(g,h,i)perylene                    | mg/kg | 0.005 |                                     |                       |                      | -                  | -                  | -                  | -                  | -                  | -                  |
| Benzo(k)fluoranthene                    | mg/kg | 0.005 | 6.2                                 |                       |                      | -                  | -                  | -                  | -                  | -                  | -                  |
| C1 Acenaphthenes                        | mg/kg | 0.04  |                                     |                       |                      | -                  | -                  | -                  | -                  | -                  | -                  |
| C1 Benz(a)Anthracenes/Chrysenes         | mg/kg | 0.04  |                                     |                       |                      | -                  | -                  | -                  | -                  | -                  | -                  |
| C1 Benzofluoranthenes/Benzopyrenes      | mg/kg | 0.04  |                                     |                       |                      | -                  | -                  | -                  | -                  | -                  | -                  |
| C1 Biphenyls                            | mg/kg | 0.04  |                                     |                       |                      | -                  | -                  | -                  | -                  | -                  | -                  |
| C1 Dibenzothiophenes                    | mg/kg | 0.04  |                                     |                       |                      | -                  | -                  | -                  | -                  | -                  | -                  |
| Chrysene                                | mg/kg | 0.005 | 6.2                                 | 0.0571                | 0.862                | -                  | -                  | -                  | -                  | -                  | -                  |
| C1 Fluoranthenes/Pyrenes                | mg/kg | 0.04  |                                     |                       |                      | -                  | -                  | -                  | -                  | -                  | -                  |
| C1 Fluorenes                            | mg/kg | 0.04  |                                     |                       |                      | -                  | -                  | -                  | -                  | -                  | -                  |
| C1 Phenanthrenes/Anthracenes            | mg/kg | 0.04  |                                     |                       |                      | -                  | -                  | -                  | -                  | -                  | -                  |
| Dibenz(a,h)anthracene                   | mg/kg | 0.005 | 7.4                                 | 0.00622               | 0.135                | -                  | -                  | -                  | -                  | -                  | -                  |
| Dibenzothiophene                        | mg/kg | 0.01  |                                     |                       |                      | -                  | -                  | -                  | -                  | -                  | -                  |
| Fluoranthene                            | mg/kg | 0.005 | 0.032                               | 0.111                 | 2.355                | -                  | -                  | -                  | -                  | -                  | -                  |
| Fluorene                                | mg/kg | 0.005 | 0.29                                | 0.0212                | 0.144                | -                  | -                  | -                  | -                  | -                  | -                  |
| Indeno(1,2,3-c,d)pyrene                 | mg/kg | 0.005 |                                     |                       |                      | -                  | -                  | -                  | -                  | -                  | -                  |
| Naphthalene                             | mg/kg | 0.005 | 0.016                               | 0.0346                | 0.391                | -                  | -                  | -                  | -                  | -                  | -                  |
| Perylene                                | mg/kg | 0.01  |                                     |                       |                      | -                  | -                  | -                  | -                  | -                  | -                  |
| Phenanthrene                            | mg/kg | 0.005 | 0.051                               | 0.0419                | 0.515                | -                  | -                  | -                  | -                  | -                  | -                  |
| Pyrene                                  | mg/kg | 0.005 | 0.034                               | 0.053                 | 0.875                | -                  | -                  | -                  | -                  | -                  | -                  |
| Quinoline                               | mg/kg | 0.005 |                                     |                       |                      | -                  | -                  | -                  | -                  | -                  | -                  |
| Retene                                  | mg/kg | 0.01  |                                     |                       |                      | -                  | -                  | -                  | -                  | -                  | -                  |
| C2 Benzofluoranthenes/Benzopyrenes      | mg/kg | 0.04  |                                     |                       |                      | -                  | -                  | -                  | -                  | -                  | -                  |
| C2 Biphenyls                            | mg/kg | 0.04  |                                     |                       |                      | -                  | -                  | -                  | -                  | -                  | -                  |
| C2 Dibenzothiophenes                    | mg/kg | 0.04  |                                     |                       |                      | -                  | -                  | -                  | -                  | -                  | -                  |
| C2 Fluoranthenes/Pyrenes                | mg/kg | 0.04  |                                     |                       |                      | -                  | -                  | -                  | -                  | -                  | -                  |
| C2 Naphthalenes                         | mg/kg | 0.04  |                                     |                       |                      | -                  | -                  | -                  | -                  | -                  | -                  |
| C2 Phenanthrenes/Anthracenes            | mg/kg | 0.04  |                                     |                       |                      | -                  | -                  | -                  | -                  | -                  | -                  |
| C2 Fluorenes                            | mg/kg | 0.04  |                                     |                       |                      | -                  | -                  | -                  | -                  | -                  | -                  |
| C2 subd B(a)Anthracenes/Chrysenes       | mg/kg | 0.04  |                                     |                       |                      | -                  | -                  | -                  | -                  | -                  | -                  |
| C3 Benzantracenes/Chrysenes             | mg/kg | 0.04  |                                     |                       |                      | -                  | -                  | -                  | -                  | -                  | -                  |
| C3 Dibenzothiophenes                    | mg/kg | 0.04  |                                     |                       |                      | -                  | -                  | -                  | -                  | -                  | -                  |
| C3 Fluoranthenes/Pyrenes                | mg/kg | 0.04  |                                     |                       |                      | -                  | -                  | -                  | -                  | -                  | -                  |
| C3 Fluorenes                            | mg/kg | 0.04  |                                     |                       |                      | -                  | -                  | -                  | -                  | -                  | -                  |
| C3 Naphthalenes                         | mg/kg | 0.04  |                                     |                       |                      | -                  | -                  | -                  | -                  | -                  | -                  |
| C3 Phenanthrenes/Anthracenes            | mg/kg | 0.04  |                                     |                       |                      | -                  | -                  | -                  | -                  | -                  | -                  |
| <b>Saturated Paste Extractables</b>     |       |       |                                     |                       |                      |                    |                    |                    |                    |                    |                    |
| Sulfur (as SO4)                         | mg/kg | 9.5   |                                     |                       |                      | 42 <sup>#1</sup>   | 284 <sup>#1</sup>  | 137 <sup>#1</sup>  | 201 <sup>#1</sup>  | 65 <sup>#1</sup>   | 630 <sup>#1</sup>  |
| Calcium                                 | mg/kg | 1.6   |                                     |                       |                      | 57.1 <sup>#1</sup> | 84.1 <sup>#1</sup> | 46.1 <sup>#1</sup> | 57 <sup>#1</sup>   | 12.9 <sup>#1</sup> | 130 <sup>#1</sup>  |
| Chloride                                | mg/kg | 6.4   |                                     |                       |                      | <12 <sup>#1</sup>  | 45 <sup>#1</sup>   | 23 <sup>#1</sup>   | <41 <sup>#1</sup>  | <9.3 <sup>#1</sup> | <67 <sup>#1</sup>  |
| Saturation Percentage                   | %     | 1     |                                     |                       |                      | 58.3               | 173                | 70                 | 204                | 46.6               | 333                |
| Electrical Conductivity (lab)           | dS/m  | 0.01  |                                     |                       |                      | 0.759              | 0.642              | 0.951              | 0.344              | 0.446              | 0.535              |
| Magnesium                               | mg/kg | 0.95  |                                     |                       |                      | 7.8 <sup>#1</sup>  | 23.3 <sup>#1</sup> | 11.8 <sup>#1</sup> | 15.8 <sup>#1</sup> | 3.7 <sup>#1</sup>  | 31 <sup>#1</sup>   |
| pH (Lab)                                | pH    | 0.1   | 6-8.5                               |                       |                      | 6.25               | 6.41               | 7.45               | 6.44               | 6.02               | 6.28               |
| Potassium                               | mg/kg | 0.64  |                                     |                       |                      | 1.8 <sup>#1</sup>  | 6.9 <sup>#1</sup>  | 5.6 <sup>#1</sup>  | 11.2 <sup>#1</sup> | 1.39 <sup>#1</sup> | 12.2 <sup>#1</sup> |
| Sodium                                  | mg/kg | 0.64  |                                     |                       |                      | 23.5 <sup>#1</sup> | 121 <sup>#1</sup>  | 79.3 <sup>#1</sup> | 90.6 <sup>#1</sup> | 21.3 <sup>#1</sup> | 198 <sup>#1</sup>  |
| Sodium Adsorption Ratio                 | ---   | 0.1   |                                     |                       |                      | 1.01 <sup>#1</sup> | 2.3 <sup>#1</sup>  | 3.22 <sup>#1</sup> | 1.92 <sup>#1</sup> | 1.98 <sup>#1</sup> | 2.22 <sup>#1</sup> |
| <b>Speciated Metals</b>                 |       |       |                                     |                       |                      |                    |                    |                    |                    |                    |                    |
| Chromium (hexavalent)                   | mg/kg | 0.1   | 0.4                                 |                       |                      | <0.1               | <0.1               | <0.35              | <0.15              | <0.1               | <0.2               |
| <b>Volatile Organic Compounds</b>       |       |       |                                     |                       |                      |                    |                    |                    |                    |                    |                    |
| Benzene                                 | mg/kg | 0.005 | 0.046                               |                       |                      | -                  | -                  | -                  | -                  | -                  | -                  |
| Toluene                                 | mg/kg | 0.05  | 0.52                                |                       |                      | -                  | -                  | -                  | -                  | -                  | -                  |
| Ethylbenzene                            | mg/kg | 0.01  | 0.11                                |                       |                      | -                  | -                  | -                  | -                  | -                  | -                  |
| Xylene (m & p)                          | mg/kg | 0.05  |                                     |                       |                      | -                  | -                  | -                  | -                  | -                  | -                  |
| Xylene (o)                              | mg/kg | 0.05  |                                     |                       |                      | -                  | -                  | -                  | -                  | -                  | -                  |
| Xylenes Total                           | mg/kg | 0.1   | 15                                  |                       |                      | -                  | -                  | -                  | -                  | -                  | -                  |
| Styrene                                 | mg/kg | 0.05  | 0.68                                |                       |                      | -                  | -                  | -                  | -                  | -                  | -                  |

Comments  
#1 CALC

OBED MOUNTAIN MINE  
SOIL/SEDIMENT TABLE  
TABLE 4 - APETOWUN CREEK HEADWATERS

Monitoring Zone  
Location  
Date  
Depth (m)  
Lab Report  
Easting (NAD83 Zone 11N)  
Northing (NAD83 Zone 11N)

| ENV673S   | ENV674    |          |          |          | ENV675    |          |  |
|-----------|-----------|----------|----------|----------|-----------|----------|--|
| 30-Jan-14 | 30-Jan-14 |          |          |          | 30-Jan-14 |          |  |
| 0.05-0    | 0.2-0.5   | 0.5-1    | 0-0.2    | 0.2-0.5  | 0.5-1     | 0.2-0.5  |  |
| L1417727  | L1417727  | L1417727 | L1417727 | L1417727 | L1417727  | L1417727 |  |
| 471042    | 471008    | 471008   | 471008   | 471006   | 471006    | 471034   |  |
| 5938647   | 5938658   | 5938658  | 5938658  | 5938685  | 5938685   | 5938662  |  |

| Parameter                         | Unit         | MDL   | AB Tier 1, Natural Area (Fine Soil) | CSQG FW Sediment ISQG | CSQG FW Sediment PEL |                    |                    |                    |                    |                    |                   |                  |
|-----------------------------------|--------------|-------|-------------------------------------|-----------------------|----------------------|--------------------|--------------------|--------------------|--------------------|--------------------|-------------------|------------------|
| <b>Hydrocarbons</b>               |              |       |                                     |                       |                      |                    |                    |                    |                    |                    |                   |                  |
| F2 (C10-C16 Hydrocarbons)         | mg/kg        | 20    |                                     |                       |                      | -                  | -                  | -                  | -                  | -                  | -                 | -                |
| Total Hydrocarbons (C6-C50)       | mg/kg        | 20    |                                     |                       |                      | -                  | -                  | -                  | -                  | -                  | -                 | -                |
| Chrom. to baseline at nC50        | -            |       |                                     |                       |                      | -                  | -                  | -                  | -                  | -                  | -                 | -                |
| Gravimetric Heavy Hydrocarbons    | mg/kg        | 500   |                                     |                       |                      | -                  | -                  | -                  | -                  | -                  | -                 | -                |
| TEH: (C16-C34)                    | mg/kg        | 20    |                                     |                       |                      | -                  | -                  | -                  | -                  | -                  | -                 | -                |
| TEH: (C34-C50)                    | mg/kg        | 20    |                                     |                       |                      | -                  | -                  | -                  | -                  | -                  | -                 | -                |
| TVH                               | mg/kg        | 10    |                                     |                       |                      | -                  | -                  | -                  | -                  | -                  | -                 | -                |
| TVH: (C6-C10 / BTEX CORRECTED)    | mg/kg        | 10    |                                     |                       |                      | -                  | -                  | -                  | -                  | -                  | -                 | -                |
| <b>Leachable Metals</b>           |              |       |                                     |                       |                      |                    |                    |                    |                    |                    |                   |                  |
| Barium, extractable               | mg/kg        | 5     |                                     |                       |                      | 41.6               | 66.2               | 68.7               | 58.8               | 57.3               | 75.6              | 99.1             |
| Boron (B), Hot Water Ext.         | mg/kg        | 0.1   |                                     |                       |                      | 0.66               | 1.9                | 0.35               | 1.88               | 0.96               | 0.63              | 5.24             |
| <b>Metals</b>                     |              |       |                                     |                       |                      |                    |                    |                    |                    |                    |                   |                  |
| Aluminium                         | mg/kg        | 50    |                                     |                       |                      | -                  | -                  | -                  | -                  | -                  | -                 | -                |
| Antimony                          | mg/kg        | 0.1   | 20                                  |                       |                      | 0.3                | 0.35               | 0.23               | <0.2               | 0.42               | 0.26              | 0.42             |
| Arsenic                           | mg/kg        | 0.1   | 17                                  | 5.9                   | 17                   | 6.25               | 3.24               | 2.14               | 3.52               | 6.84               | 6.53              | 7.26             |
| Barium                            | mg/kg        | 0.5   | 750                                 |                       |                      | 411                | 223                | 171                | 203                | 416                | 227               | 341              |
| Beryllium                         | mg/kg        | 0.2   | 5                                   |                       |                      | <1                 | <1                 | <1                 | <1                 | <1                 | <1                | <1               |
| Bismuth                           | mg/kg        | 0.2   |                                     |                       |                      | -                  | -                  | -                  | -                  | -                  | -                 | -                |
| Cadmium                           | mg/kg        | 0.1   | 3.8                                 | 0.6                   | 3.5                  | <0.5               | 0.59               | <0.5               | <0.5               | <0.5               | <0.5              | 0.75             |
| Calcium                           | mg/kg        | 100   |                                     |                       |                      | -                  | -                  | -                  | -                  | -                  | -                 | -                |
| Chromium (III+VI)                 | mg/kg        | 0.5   | 64                                  | 37.3                  | 90                   | 9.82               | 12.8               | 20.6               | 15.1               | 14.8               | 17.7              | 9.85             |
| Cobalt                            | mg/kg        | 0.1   | 20                                  |                       |                      | 6.7                | 3.5                | 6.6                | 3.8                | 7.6                | 6.4               | 7.3              |
| Copper                            | mg/kg        | 0.5   | 63                                  | 35.7                  | 197                  | 9.3                | 19.8               | 15.4               | 12.3               | 18.2               | 13.4              | 15.7             |
| Iron                              | mg/kg        | 50    |                                     |                       |                      | -                  | -                  | -                  | -                  | -                  | -                 | -                |
| Lead                              | mg/kg        | 0.5   | 70                                  | 35                    | 91.3                 | 8.1                | 6                  | 9.3                | 7.1                | 10.5               | 8.2               | <5               |
| Lithium                           | mg/kg        | 0.5   |                                     |                       |                      | -                  | -                  | -                  | -                  | -                  | -                 | -                |
| Magnesium                         | mg/kg        | 20    |                                     |                       |                      | -                  | -                  | -                  | -                  | -                  | -                 | -                |
| Manganese                         | mg/kg        | 1     |                                     |                       |                      | -                  | -                  | -                  | -                  | -                  | -                 | -                |
| Mercury                           | mg/kg        | 0.005 | 12                                  | 0.17                  | 0.486                | 0.0448             | 0.114              | 0.0564             | 0.0738             | 0.0702             | 0.0453            | 0.105            |
| Molybdenum                        | mg/kg        | 0.1   | 4                                   |                       |                      | 1.1                | <1                 | <1                 | <1                 | 1.7                | 1                 | 2.9              |
| Nickel                            | mg/kg        | 0.5   | 50                                  |                       |                      | 13.9               | 16.6               | 21.9               | 14.8               | 21.8               | 18.7              | 19.6             |
| Phosphorus                        | mg/kg        | 50    |                                     |                       |                      | -                  | -                  | -                  | -                  | -                  | -                 | -                |
| Potassium                         | mg/kg        | 50    |                                     |                       |                      | -                  | -                  | -                  | -                  | -                  | -                 | -                |
| Selenium                          | mg/kg        | 0.2   | 1                                   |                       |                      | <0.5               | 1.06               | <0.5               | 0.56               | 0.71               | <0.5              | 1.05             |
| Silver                            | mg/kg        | 0.2   | 20                                  |                       |                      | <1                 | <1                 | <1                 | <1                 | <1                 | <1                | <1               |
| Sodium                            | mg/kg        | 100   |                                     |                       |                      | -                  | -                  | -                  | -                  | -                  | -                 | -                |
| Strontium                         | mg/kg        | 1     |                                     |                       |                      | -                  | -                  | -                  | -                  | -                  | -                 | -                |
| Thallium                          | mg/kg        | 0.05  | 1                                   |                       |                      | <0.5               | <0.5               | <0.5               | <0.5               | <0.5               | <0.5              | <0.5             |
| Tin                               | mg/kg        | 2     | 5                                   |                       |                      | <5                 | <5                 | <5                 | <5                 | <5                 | <5                | <5               |
| Titanium                          | mg/kg        | 1     |                                     |                       |                      | -                  | -                  | -                  | -                  | -                  | -                 | -                |
| Uranium                           | mg/kg        | 0.05  | 33                                  |                       |                      | <2                 | 3.2                | <2                 | 2.1                | 2.3                | <2                | 2.9              |
| Vanadium                          | mg/kg        | 0.2   | 130                                 |                       |                      | 16.1               | 20.4               | 25.5               | 21.8               | 22.2               | 24.4              | 15               |
| Zinc                              | mg/kg        | 5     | 200                                 | 123                   | 315                  | 40                 | 31                 | 62                 | 38                 | 60                 | 58                | 21               |
| <b>Organic / Inorganic Carbon</b> |              |       |                                     |                       |                      |                    |                    |                    |                    |                    |                   |                  |
| CaCO3 Equivalent                  | %            | 0.8   |                                     |                       |                      | 2.25               | 1.37               | 0.8                | 0.87               | 2.16               | <0.8              | 1.06             |
| Inorganic Carbon                  | mg/kg        | 0.1   |                                     |                       |                      | 0.27               | 0.16               | <0.1               | 0.1                | 0.26               | <0.1              | 0.13             |
| TOC                               | % dry weight | 0.1   |                                     |                       |                      | 7.83 <sup>#1</sup> | 22.1 <sup>#1</sup> | 3.88 <sup>#1</sup> | 8.88 <sup>#1</sup> | 12.3 <sup>#1</sup> | 2.2 <sup>#1</sup> | 25 <sup>#1</sup> |
| Total Carbon by Combustion        | %            | 0.1   |                                     |                       |                      | 8.1                | 22.3               | 3.9                | 9                  | 12.5               | 2.2               | 25.2             |
| <b>Particle Size</b>              |              |       |                                     |                       |                      |                    |                    |                    |                    |                    |                   |                  |
| Soil Particle Size (>75 um)       | % by weight  | 1     |                                     |                       |                      | 66.4               | 96.4               | 20.5               | 82.3               | 25.5               | 32.5              | 9.2              |
| <b>Physical Tests</b>             |              |       |                                     |                       |                      |                    |                    |                    |                    |                    |                   |                  |
| Moisture                          | %            | 0.1   |                                     |                       |                      | 35                 | 64.3               | 32.2               | 50                 | 53.7               | 32.8              | 74.8             |

OBED MOUNTAIN MINE  
SOIL/SEDIMENT TABLE  
TABLE 4 - APETOWUN CREEK HEADWATERS

Monitoring Zone  
Location  
Date  
Depth (m)  
Lab Report  
Easting (NAD83 Zone 11N)  
Northing (NAD83 Zone 11N)

| ENV673S   | ENV674    |          |          |          | ENV675    |          |  |
|-----------|-----------|----------|----------|----------|-----------|----------|--|
| 30-Jan-14 | 30-Jan-14 |          |          |          | 30-Jan-14 |          |  |
| 0.05-0    | 0.2-0.5   | 0.5-1    | 0-0.2    | 0.2-0.5  | 0.5-1     | 0.2-0.5  |  |
| L1417727  | L1417727  | L1417727 | L1417727 | L1417727 | L1417727  | L1417727 |  |
| 471042    | 471008    | 471008   | 471008   | 471006   | 471006    | 471034   |  |
| 5938647   | 5938658   | 5938658  | 5938658  | 5938685  | 5938685   | 5938662  |  |

| Parameter                               | Unit  | MDL   | AB Tier 1, Natural Area (Fine Soil) | CSQG FW Sediment ISQG | CSQG FW Sediment PEL |                    |                    |                    |                    |                    |                    |                    |
|---|-------|-------|-------------------------------------|-----------------------|----------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|
| <b>Polycyclic Aromatic Hydrocarbons</b> |       |       |                                     |                       |                      |                    |                    |                    |                    |                    |                    |                    |
| Benzo(b)fluoranthene                    | mg/kg | 0.005 | 6.2                                 |                       |                      | -                  | -                  | -                  | -                  | -                  | -                  | -                  |
| C4 Benzantracenes/Chrysenes             | mg/kg | 0.04  |                                     |                       |                      | -                  | -                  | -                  | -                  | -                  | -                  | -                  |
| C4 Dibenzothiophenes                    | mg/kg | 0.04  |                                     |                       |                      | -                  | -                  | -                  | -                  | -                  | -                  | -                  |
| C4 Fluoranthenes/Pyrenes                | mg/kg | 0.04  |                                     |                       |                      | -                  | -                  | -                  | -                  | -                  | -                  | -                  |
| C4 Naphthalenes                         | mg/kg | 0.04  |                                     |                       |                      | -                  | -                  | -                  | -                  | -                  | -                  | -                  |
| C4 Phenanthrenes/Anthracenes            | mg/kg | 0.04  |                                     |                       |                      | -                  | -                  | -                  | -                  | -                  | -                  | -                  |
| Biphenyl                                | mg/kg | 0.01  |                                     |                       |                      | -                  | -                  | -                  | -                  | -                  | -                  | -                  |
| 1-Methylnaphthalene                     | mg/kg | 0.01  |                                     |                       |                      | -                  | -                  | -                  | -                  | -                  | -                  | -                  |
| 2-methylnaphthalene                     | mg/kg | 0.005 |                                     | 0.0202                | 0.201                | -                  | -                  | -                  | -                  | -                  | -                  | -                  |
| Acenaphthene                            | mg/kg | 0.005 | 0.32                                | 0.00671               | 0.0899               | -                  | -                  | -                  | -                  | -                  | -                  | -                  |
| Acenaphthylene                          | mg/kg | 0.005 | 5                                   | 0.00587               | 0.128                | -                  | -                  | -                  | -                  | -                  | -                  | -                  |
| Anthracene                              | mg/kg | 0.004 | 0.0046                              | 0.00469               | 0.245                | -                  | -                  | -                  | -                  | -                  | -                  | -                  |
| Benz(a)anthracene                       | mg/kg | 0.005 | 0.07                                | 0.0317                | 0.385                | -                  | -                  | -                  | -                  | -                  | -                  | -                  |
| Benzo(a)pyrene                          | mg/kg | 0.005 | 0.6                                 | 0.0319                | 0.782                | -                  | -                  | -                  | -                  | -                  | -                  | -                  |
| Acridine                                | mg/kg | 0.005 |                                     |                       |                      | -                  | -                  | -                  | -                  | -                  | -                  | -                  |
| Benzo(e)pyrene                          | mg/kg | 0.01  |                                     |                       |                      | -                  | -                  | -                  | -                  | -                  | -                  | -                  |
| Benzo(g,h,i)perylene                    | mg/kg | 0.005 |                                     |                       |                      | -                  | -                  | -                  | -                  | -                  | -                  | -                  |
| Benzo(k)fluoranthene                    | mg/kg | 0.005 | 6.2                                 |                       |                      | -                  | -                  | -                  | -                  | -                  | -                  | -                  |
| C1 Acenaphthenes                        | mg/kg | 0.04  |                                     |                       |                      | -                  | -                  | -                  | -                  | -                  | -                  | -                  |
| C1 Benz(a)Anthracenes/Chrysenes         | mg/kg | 0.04  |                                     |                       |                      | -                  | -                  | -                  | -                  | -                  | -                  | -                  |
| C1 Benzofluoranthenes/Benzopyrenes      | mg/kg | 0.04  |                                     |                       |                      | -                  | -                  | -                  | -                  | -                  | -                  | -                  |
| C1 Biphenyls                            | mg/kg | 0.04  |                                     |                       |                      | -                  | -                  | -                  | -                  | -                  | -                  | -                  |
| C1 Dibenzothiophenes                    | mg/kg | 0.04  |                                     |                       |                      | -                  | -                  | -                  | -                  | -                  | -                  | -                  |
| Chrysene                                | mg/kg | 0.005 | 6.2                                 | 0.0571                | 0.862                | -                  | -                  | -                  | -                  | -                  | -                  | -                  |
| C1 Fluoranthenes/Pyrenes                | mg/kg | 0.04  |                                     |                       |                      | -                  | -                  | -                  | -                  | -                  | -                  | -                  |
| C1 Fluorenes                            | mg/kg | 0.04  |                                     |                       |                      | -                  | -                  | -                  | -                  | -                  | -                  | -                  |
| C1 Phenanthrenes/Anthracenes            | mg/kg | 0.04  |                                     |                       |                      | -                  | -                  | -                  | -                  | -                  | -                  | -                  |
| Dibenz(a,h)anthracene                   | mg/kg | 0.005 | 7.4                                 | 0.00622               | 0.135                | -                  | -                  | -                  | -                  | -                  | -                  | -                  |
| Dibenzothiophene                        | mg/kg | 0.01  |                                     |                       |                      | -                  | -                  | -                  | -                  | -                  | -                  | -                  |
| Fluoranthene                            | mg/kg | 0.005 | 0.032                               | 0.111                 | 2.355                | -                  | -                  | -                  | -                  | -                  | -                  | -                  |
| Fluorene                                | mg/kg | 0.005 | 0.29                                | 0.0212                | 0.144                | -                  | -                  | -                  | -                  | -                  | -                  | -                  |
| Indeno(1,2,3-c,d)pyrene                 | mg/kg | 0.005 |                                     |                       |                      | -                  | -                  | -                  | -                  | -                  | -                  | -                  |
| Naphthalene                             | mg/kg | 0.005 | 0.016                               | 0.0346                | 0.391                | -                  | -                  | -                  | -                  | -                  | -                  | -                  |
| Perylene                                | mg/kg | 0.01  |                                     |                       |                      | -                  | -                  | -                  | -                  | -                  | -                  | -                  |
| Phenanthrene                            | mg/kg | 0.005 | 0.051                               | 0.0419                | 0.515                | -                  | -                  | -                  | -                  | -                  | -                  | -                  |
| Pyrene                                  | mg/kg | 0.005 | 0.034                               | 0.053                 | 0.875                | -                  | -                  | -                  | -                  | -                  | -                  | -                  |
| Quinoline                               | mg/kg | 0.005 |                                     |                       |                      | -                  | -                  | -                  | -                  | -                  | -                  | -                  |
| Retene                                  | mg/kg | 0.01  |                                     |                       |                      | -                  | -                  | -                  | -                  | -                  | -                  | -                  |
| C2 Benzofluoranthenes/Benzopyrenes      | mg/kg | 0.04  |                                     |                       |                      | -                  | -                  | -                  | -                  | -                  | -                  | -                  |
| C2 Biphenyls                            | mg/kg | 0.04  |                                     |                       |                      | -                  | -                  | -                  | -                  | -                  | -                  | -                  |
| C2 Dibenzothiophenes                    | mg/kg | 0.04  |                                     |                       |                      | -                  | -                  | -                  | -                  | -                  | -                  | -                  |
| C2 Fluoranthenes/Pyrenes                | mg/kg | 0.04  |                                     |                       |                      | -                  | -                  | -                  | -                  | -                  | -                  | -                  |
| C2 Naphthalenes                         | mg/kg | 0.04  |                                     |                       |                      | -                  | -                  | -                  | -                  | -                  | -                  | -                  |
| C2 Phenanthrenes/Anthracenes            | mg/kg | 0.04  |                                     |                       |                      | -                  | -                  | -                  | -                  | -                  | -                  | -                  |
| C2 Fluorenes                            | mg/kg | 0.04  |                                     |                       |                      | -                  | -                  | -                  | -                  | -                  | -                  | -                  |
| C2 subd B(a)Anthracenes/Chrysenes       | mg/kg | 0.04  |                                     |                       |                      | -                  | -                  | -                  | -                  | -                  | -                  | -                  |
| C3 Benzantracenes/Chrysenes             | mg/kg | 0.04  |                                     |                       |                      | -                  | -                  | -                  | -                  | -                  | -                  | -                  |
| C3 Dibenzothiophenes                    | mg/kg | 0.04  |                                     |                       |                      | -                  | -                  | -                  | -                  | -                  | -                  | -                  |
| C3 Fluoranthenes/Pyrenes                | mg/kg | 0.04  |                                     |                       |                      | -                  | -                  | -                  | -                  | -                  | -                  | -                  |
| C3 Fluorenes                            | mg/kg | 0.04  |                                     |                       |                      | -                  | -                  | -                  | -                  | -                  | -                  | -                  |
| C3 Naphthalenes                         | mg/kg | 0.04  |                                     |                       |                      | -                  | -                  | -                  | -                  | -                  | -                  | -                  |
| C3 Phenanthrenes/Anthracenes            | mg/kg | 0.04  |                                     |                       |                      | -                  | -                  | -                  | -                  | -                  | -                  | -                  |
| <b>Saturated Paste Extractables</b>     |       |       |                                     |                       |                      |                    |                    |                    |                    |                    |                    |                    |
| Sulfur (as SO4)                         | mg/kg | 9.5   |                                     |                       |                      | 75 <sup>#1</sup>   | 109 <sup>#1</sup>  | 72 <sup>#1</sup>   | 146 <sup>#1</sup>  | 385 <sup>#1</sup>  | 65 <sup>#1</sup>   | 421 <sup>#1</sup>  |
| Calcium                                 | mg/kg | 1.6   |                                     |                       |                      | 14.9 <sup>#1</sup> | 36.4 <sup>#1</sup> | 15.7 <sup>#1</sup> | 48.2 <sup>#1</sup> | 80.9 <sup>#1</sup> | 15.7 <sup>#1</sup> | 86 <sup>#1</sup>   |
| Chloride                                | mg/kg | 6.4   |                                     |                       |                      | <7.7 <sup>#1</sup> | <29 <sup>#1</sup>  | <9.9 <sup>#1</sup> | 22 <sup>#1</sup>   | 60 <sup>#1</sup>   | <11 <sup>#1</sup>  | <44 <sup>#1</sup>  |
| Saturation Percentage                   | %     | 1     |                                     |                       |                      | 38.6               | 146                | 49.4               | 112                | 91.5               | 57                 | 222                |
| Electrical Conductivity (lab)           | dS/m  | 0.01  |                                     |                       |                      | 0.66               | 0.388              | 0.506              | 0.633              | 1.17               | 0.441              | 0.519              |
| Magnesium                               | mg/kg | 0.95  |                                     |                       |                      | 3.3 <sup>#1</sup>  | 9.7 <sup>#1</sup>  | 3.9 <sup>#1</sup>  | 14.4 <sup>#1</sup> | 22.1 <sup>#1</sup> | 3.7 <sup>#1</sup>  | 22 <sup>#1</sup>   |
| pH (Lab)                                | pH    | 0.1   | 6-8.5                               |                       |                      | 7.47               | 6.42               | 5.91               | 6.75               | 7.38               | 6.3                | 5.94               |
| Potassium                               | mg/kg | 0.64  |                                     |                       |                      | 1.47 <sup>#1</sup> | 6 <sup>#1</sup>    | 1.56 <sup>#1</sup> | 5.8 <sup>#1</sup>  | 8.1 <sup>#1</sup>  | <1.1 <sup>#1</sup> | 9.4 <sup>#1</sup>  |
| Sodium                                  | mg/kg | 0.64  |                                     |                       |                      | 29.1 <sup>#1</sup> | 79.4 <sup>#1</sup> | 25.8 <sup>#1</sup> | 86.8 <sup>#1</sup> | 120 <sup>#1</sup>  | 28.9 <sup>#1</sup> | 115 <sup>#1</sup>  |
| Sodium Adsorption Ratio                 | ---   | 0.1   |                                     |                       |                      | 2.86 <sup>#1</sup> | 2.5 <sup>#1</sup>  | 2.15 <sup>#1</sup> | 2.66 <sup>#1</sup> | 3.19 <sup>#1</sup> | 2.25 <sup>#1</sup> | 1.93 <sup>#1</sup> |
| <b>Speciated Metals</b>                 |       |       |                                     |                       |                      |                    |                    |                    |                    |                    |                    |                    |
| Chromium (hexavalent)                   | mg/kg | 0.1   | 0.4                                 |                       |                      | <0.1               | <0.15              | <0.1               | <0.1               | <0.1               | <0.1               | <0.15              |
| <b>Volatile Organic Compounds</b>       |       |       |                                     |                       |                      |                    |                    |                    |                    |                    |                    |                    |
| Benzene                                 | mg/kg | 0.005 | 0.046                               |                       |                      | -                  | -                  | -                  | -                  | -                  | -                  | -                  |
| Toluene                                 | mg/kg | 0.05  | 0.52                                |                       |                      | -                  | -                  | -                  | -                  | -                  | -                  | -                  |
| Ethylbenzene                            | mg/kg | 0.01  | 0.11                                |                       |                      | -                  | -                  | -                  | -                  | -                  | -                  | -                  |
| Xylene (m & p)                          | mg/kg | 0.05  |                                     |                       |                      | -                  | -                  | -                  | -                  | -                  | -                  | -                  |
| Xylene (o)                              | mg/kg | 0.05  |                                     |                       |                      | -                  | -                  | -                  | -                  | -                  | -                  | -                  |
| Xylenes Total                           | mg/kg | 0.1   | 15                                  |                       |                      | -                  | -                  | -                  | -                  | -                  | -                  | -                  |
| Styrene                                 | mg/kg | 0.05  | 0.68                                |                       |                      | -                  | -                  | -                  | -                  | -                  | -                  | -                  |

Comments  
#1 CALC

OBED MOUNTAIN MINE  
SOIL/SEDIMENT TABLE  
TABLE 4 - APETOWUN CREEK HEADWATERS

Monitoring Zone  
Location  
Date  
Depth (m)  
Lab Report  
Easting (NAD83 Zone 11N)  
Northing (NAD83 Zone 11N)

| ENV676    |          |          | ENV677    |          |          |
|-----------|----------|----------|-----------|----------|----------|
| 30-Jan-14 |          |          | 30-Jan-14 |          |          |
| 0.5-1     | 0-0.2    | 1-1.5    | 0.2-0.5   | 0.5-1    | 0-0.2    |
| L1417727  | L1417727 | L1417727 | L1417727  | L1417727 | L1417727 |
| 471034    | 471034   | 471034   | 471058    | 471058   | 471058   |
| 5938662   | 5938662  | 5938662  | 5938658   | 5938658  | 5938658  |

| Parameter                         | Unit         | MDL   | AB Tier 1,<br>Natural Area<br>(Fine Soil) | CSQG FW<br>Sediment<br>ISQG | CSQG FW<br>Sediment<br>PEL |                    |                    |                    |                    |                    |                    |
|-----------------------------------|--------------|-------|---|-----------------------------|----------------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|
| <b>Hydrocarbons</b>               |              |       |   |                             |                            |                    |                    |                    |                    |                    |                    |
| F2 (C10-C16 Hydrocarbons)         | mg/kg        | 20    |   |                             |                            | -                  | -                  | -                  | -                  | -                  | -                  |
| Total Hydrocarbons (C6-C50)       | mg/kg        | 20    |   |                             |                            | -                  | -                  | -                  | -                  | -                  | -                  |
| Chrom. to baseline at nC50        | -            |       |   |                             |                            | -                  | -                  | -                  | -                  | -                  | -                  |
| Gravimetric Heavy Hydrocarbons    | mg/kg        | 500   |   |                             |                            | -                  | -                  | -                  | -                  | -                  | -                  |
| TEH: (C16-C34)                    | mg/kg        | 20    |   |                             |                            | -                  | -                  | -                  | -                  | -                  | -                  |
| TEH: (C34-C50)                    | mg/kg        | 20    |   |                             |                            | -                  | -                  | -                  | -                  | -                  | -                  |
| TVH                               | mg/kg        | 10    |   |                             |                            | -                  | -                  | -                  | -                  | -                  | -                  |
| TVH: (C6-C10 / BTEX CORRECTED)    | mg/kg        | 10    |   |                             |                            | -                  | -                  | -                  | -                  | -                  | -                  |
| <b>Leachable Metals</b>           |              |       |   |                             |                            |                    |                    |                    |                    |                    |                    |
| Barium, extractable               | mg/kg        | 5     |   |                             |                            | 81.2               | 76.4               | 54                 | 40                 | 36.5               | 8.2                |
| Boron (B), Hot Water Ext.         | mg/kg        | 0.1   |   |                             |                            | 1.91               | 1.96               | 0.21               | 0.24               | 0.17               | 4.41               |
| <b>Metals</b>                     |              |       |   |                             |                            |                    |                    |                    |                    |                    |                    |
| Aluminium                         | mg/kg        | 50    |   |                             |                            | -                  | -                  | -                  | -                  | -                  | -                  |
| Antimony                          | mg/kg        | 0.1   | 20  |                             |                            | 0.51               | 0.27               | 0.24               | <0.2               | 0.24               | 0.33               |
| Arsenic                           | mg/kg        | 0.1   | 17  | 5.9                         | 17                         | 5.63               | 5.3                | 3.32               | 6.81               | 8.65               | 2.2                |
| Barium                            | mg/kg        | 0.5   | 750                                       |                             |                            | 298                | 414                | 152                | 191                | 163                | 329                |
| Beryllium                         | mg/kg        | 0.2   | 5   |                             |                            | <1                 | <1                 | <1                 | <1                 | <1                 | <1                 |
| Bismuth                           | mg/kg        | 0.2   |   |                             |                            | -                  | -                  | -                  | -                  | -                  | -                  |
| Cadmium                           | mg/kg        | 0.1   | 3.8                                       | 0.6                         | 3.5                        | 1.74               | <0.5               | <0.5               | <0.5               | <0.5               | <0.5               |
| Calcium                           | mg/kg        | 100   |   |                             |                            | -                  | -                  | -                  | -                  | -                  | -                  |
| Chromium (III+VI)                 | mg/kg        | 0.5   | 64  | 37.3                        | 90                         | 9.98               | 16.1               | 16.9               | 17.4               | 18.5               | 13.6               |
| Cobalt                            | mg/kg        | 0.1   | 20  |                             |                            | 3.1                | 8.4                | 8.7                | 7.1                | 8                  | 3.2                |
| Copper                            | mg/kg        | 0.5   | 63  | 35.7                        | 197                        | 29.3               | 12.4               | 13.7               | 6.4                | 13.2               | 21.2               |
| Iron                              | mg/kg        | 50    |   |                             |                            | -                  | -                  | -                  | -                  | -                  | -                  |
| Lead                              | mg/kg        | 0.5   | 70  | 35                          | 91.3                       | <5                 | 8.4                | 7.2                | 8                  | 8.3                | 6.1                |
| Lithium                           | mg/kg        | 0.5   |   |                             |                            | -                  | -                  | -                  | -                  | -                  | -                  |
| Magnesium                         | mg/kg        | 20    |   |                             |                            | -                  | -                  | -                  | -                  | -                  | -                  |
| Manganese                         | mg/kg        | 1     |   |                             |                            | -                  | -                  | -                  | -                  | -                  | -                  |
| Mercury                           | mg/kg        | 0.005 | 12  | 0.17                        | 0.486                      | 0.0684             | 0.0835             | 0.0423             | 0.0269             | 0.0339             | 0.102              |
| Molybdenum                        | mg/kg        | 0.1   | 4   |                             |                            | 2                  | 1.5                | <1                 | <1                 | <1                 | <1                 |
| Nickel                            | mg/kg        | 0.5   | 50  |                             |                            | 22                 | 18.6               | 20.2               | 18.3               | 21.9               | 25.9               |
| Phosphorus                        | mg/kg        | 50    |   |                             |                            | -                  | -                  | -                  | -                  | -                  | -                  |
| Potassium                         | mg/kg        | 50    |   |                             |                            | -                  | -                  | -                  | -                  | -                  | -                  |
| Selenium                          | mg/kg        | 0.2   | 1   |                             |                            | 1.75               | 0.61               | <0.5               | <0.5               | <0.5               | 1.19               |
| Silver                            | mg/kg        | 0.2   | 20  |                             |                            | <1                 | <1                 | <1                 | <1                 | <1                 | <1                 |
| Sodium                            | mg/kg        | 100   |   |                             |                            | -                  | -                  | -                  | -                  | -                  | -                  |
| Strontium                         | mg/kg        | 1     |   |                             |                            | -                  | -                  | -                  | -                  | -                  | -                  |
| Thallium                          | mg/kg        | 0.05  | 1   |                             |                            | <0.5               | <0.5               | <0.5               | <0.5               | <0.5               | <0.5               |
| Tin                               | mg/kg        | 2     | 5   |                             |                            | <5                 | <5                 | <5                 | <5                 | <5                 | <5                 |
| Titanium                          | mg/kg        | 1     |   |                             |                            | -                  | -                  | -                  | -                  | -                  | -                  |
| Uranium                           | mg/kg        | 0.05  | 33  |                             |                            | 8.7                | <2                 | <2                 | <2                 | <2                 | 2.6                |
| Vanadium                          | mg/kg        | 0.2   | 130                                       |                             |                            | 16.3               | 23.1               | 21.4               | 22.2               | 26.1               | 17.1               |
| Zinc                              | mg/kg        | 5     | 200                                       | 123                         | 315                        | 19                 | 49                 | 51                 | 43                 | 46                 | 27                 |
| <b>Organic / Inorganic Carbon</b> |              |       |   |                             |                            |                    |                    |                    |                    |                    |                    |
| CaCO3 Equivalent                  | %            | 0.8   |   |                             |                            | 1.98               | 2.39               | 4.12               | <0.8               | <0.8               | 1                  |
| Inorganic Carbon                  | mg/kg        | 0.1   |   |                             |                            | 0.24               | 0.29               | 0.49               | <0.1               | <0.1               | 0.12               |
| TOC                               | % dry weight | 0.1   |   |                             |                            | 23.4 <sup>#1</sup> | 22.9 <sup>#1</sup> | 2.78 <sup>#1</sup> | 2.33 <sup>#1</sup> | 1.29 <sup>#1</sup> | 14.4 <sup>#1</sup> |
| Total Carbon by Combustion        | %            | 0.1   |   |                             |                            | 23.6               | 23.2               | 3.3                | 2.3                | 1.3                | 14.5               |
| <b>Particle Size</b>              |              |       |   |                             |                            |                    |                    |                    |                    |                    |                    |
| Soil Particle Size (>75 um)       | % by weight  | 1     |   |                             |                            | 11.1               | 10.9               | 28.7               | 46.2               | 31.7               | 14.9               |
| <b>Physical Tests</b>             |              |       |   |                             |                            |                    |                    |                    |                    |                    |                    |
| Moisture                          | %            | 0.1   |   |                             |                            | 76.7               | 46.4               | 39.9               | 22.3               | 20.8               | 62.1               |

OBED MOUNTAIN MINE  
SOIL/SEDIMENT TABLE  
TABLE 4 - APETOWUN CREEK HEADWATERS

Monitoring Zone  
Location  
Date  
Depth (m)  
Lab Report  
Easting (NAD83 Zone 11N)  
Northing (NAD83 Zone 11N)

| ENV676    |          |          | ENV677    |          |          |
|-----------|----------|----------|-----------|----------|----------|
| 30-Jan-14 |          |          | 30-Jan-14 |          |          |
| 0.5-1     | 0-0.2    | 1-1.5    | 0.2-0.5   | 0.5-1    | 0-0.2    |
| L1417727  | L1417727 | L1417727 | L1417727  | L1417727 | L1417727 |
| 471034    | 471034   | 471034   | 471058    | 471058   | 471058   |
| 5938662   | 5938662  | 5938662  | 5938658   | 5938658  | 5938658  |

| Parameter                               | Unit  | MDL   | AB Tier 1, Natural Area (Fine Soil) | CSQG FW Sediment ISQG | CSQG FW Sediment PEL |                    |                    |                    |                    |                    |                    |
|---|-------|-------|-------------------------------------|-----------------------|----------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|
| <b>Polycyclic Aromatic Hydrocarbons</b> |       |       |                                     |                       |                      |                    |                    |                    |                    |                    |                    |
| Benzo[b]fluoranthene                    | mg/kg | 0.005 | 6.2                                 |                       |                      | -                  | -                  | -                  | -                  | -                  | -                  |
| C4 Benzantracenes/Chrysenes             | mg/kg | 0.04  |                                     |                       |                      | -                  | -                  | -                  | -                  | -                  | -                  |
| C4 Dibenzothiophenes                    | mg/kg | 0.04  |                                     |                       |                      | -                  | -                  | -                  | -                  | -                  | -                  |
| C4 Fluoranthenes/Pyrenes                | mg/kg | 0.04  |                                     |                       |                      | -                  | -                  | -                  | -                  | -                  | -                  |
| C4 Naphthalenes                         | mg/kg | 0.04  |                                     |                       |                      | -                  | -                  | -                  | -                  | -                  | -                  |
| C4 Phenanthrenes/Anthracenes            | mg/kg | 0.04  |                                     |                       |                      | -                  | -                  | -                  | -                  | -                  | -                  |
| Biphenyl                                | mg/kg | 0.01  |                                     |                       |                      | -                  | -                  | -                  | -                  | -                  | -                  |
| 1-Methylnaphthalene                     | mg/kg | 0.01  |                                     |                       |                      | -                  | -                  | -                  | -                  | -                  | -                  |
| 2-methylnaphthalene                     | mg/kg | 0.005 |                                     | 0.0202                | 0.201                | -                  | -                  | -                  | -                  | -                  | -                  |
| Acenaphthene                            | mg/kg | 0.005 | 0.32                                | 0.00671               | 0.0899               | -                  | -                  | -                  | -                  | -                  | -                  |
| Acenaphthylene                          | mg/kg | 0.005 | 5                                   | 0.00587               | 0.128                | -                  | -                  | -                  | -                  | -                  | -                  |
| Anthracene                              | mg/kg | 0.004 | 0.0046                              | 0.00469               | 0.245                | -                  | -                  | -                  | -                  | -                  | -                  |
| Benz(a)anthracene                       | mg/kg | 0.005 | 0.07                                | 0.0317                | 0.385                | -                  | -                  | -                  | -                  | -                  | -                  |
| Benzo(a)pyrene                          | mg/kg | 0.005 | 0.6                                 | 0.0319                | 0.782                | -                  | -                  | -                  | -                  | -                  | -                  |
| Acridine                                | mg/kg | 0.005 |                                     |                       |                      | -                  | -                  | -                  | -                  | -                  | -                  |
| Benzo(e)pyrene                          | mg/kg | 0.01  |                                     |                       |                      | -                  | -                  | -                  | -                  | -                  | -                  |
| Benzo(g,h,i)perylene                    | mg/kg | 0.005 |                                     |                       |                      | -                  | -                  | -                  | -                  | -                  | -                  |
| Benzo(k)fluoranthene                    | mg/kg | 0.005 | 6.2                                 |                       |                      | -                  | -                  | -                  | -                  | -                  | -                  |
| C1 Acenaphthenes                        | mg/kg | 0.04  |                                     |                       |                      | -                  | -                  | -                  | -                  | -                  | -                  |
| C1 Benz(a)Anthracenes/Chrysenes         | mg/kg | 0.04  |                                     |                       |                      | -                  | -                  | -                  | -                  | -                  | -                  |
| C1 Benzofluoranthenes/Benzopyrenes      | mg/kg | 0.04  |                                     |                       |                      | -                  | -                  | -                  | -                  | -                  | -                  |
| C1 Biphenyls                            | mg/kg | 0.04  |                                     |                       |                      | -                  | -                  | -                  | -                  | -                  | -                  |
| C1 Dibenzothiophenes                    | mg/kg | 0.04  |                                     |                       |                      | -                  | -                  | -                  | -                  | -                  | -                  |
| Chrysene                                | mg/kg | 0.005 | 6.2                                 | 0.0571                | 0.862                | -                  | -                  | -                  | -                  | -                  | -                  |
| C1 Fluoranthenes/Pyrenes                | mg/kg | 0.04  |                                     |                       |                      | -                  | -                  | -                  | -                  | -                  | -                  |
| C1 Fluorenes                            | mg/kg | 0.04  |                                     |                       |                      | -                  | -                  | -                  | -                  | -                  | -                  |
| C1 Phenanthrenes/Anthracenes            | mg/kg | 0.04  |                                     |                       |                      | -                  | -                  | -                  | -                  | -                  | -                  |
| Dibenz(a,h)anthracene                   | mg/kg | 0.005 | 7.4                                 | 0.00622               | 0.135                | -                  | -                  | -                  | -                  | -                  | -                  |
| Dibenzothiophene                        | mg/kg | 0.01  |                                     |                       |                      | -                  | -                  | -                  | -                  | -                  | -                  |
| Fluoranthene                            | mg/kg | 0.005 | 0.032                               | 0.111                 | 2.355                | -                  | -                  | -                  | -                  | -                  | -                  |
| Fluorene                                | mg/kg | 0.005 | 0.29                                | 0.0212                | 0.144                | -                  | -                  | -                  | -                  | -                  | -                  |
| Indeno(1,2,3-c,d)pyrene                 | mg/kg | 0.005 |                                     |                       |                      | -                  | -                  | -                  | -                  | -                  | -                  |
| Naphthalene                             | mg/kg | 0.005 | 0.016                               | 0.0346                | 0.391                | -                  | -                  | -                  | -                  | -                  | -                  |
| Perylene                                | mg/kg | 0.01  |                                     |                       |                      | -                  | -                  | -                  | -                  | -                  | -                  |
| Phenanthrene                            | mg/kg | 0.005 | 0.051                               | 0.0419                | 0.515                | -                  | -                  | -                  | -                  | -                  | -                  |
| Pyrene                                  | mg/kg | 0.005 | 0.034                               | 0.053                 | 0.875                | -                  | -                  | -                  | -                  | -                  | -                  |
| Quinoline                               | mg/kg | 0.005 |                                     |                       |                      | -                  | -                  | -                  | -                  | -                  | -                  |
| Retene                                  | mg/kg | 0.01  |                                     |                       |                      | -                  | -                  | -                  | -                  | -                  | -                  |
| C2 Benzofluoranthenes/Benzopyrenes      | mg/kg | 0.04  |                                     |                       |                      | -                  | -                  | -                  | -                  | -                  | -                  |
| C2 Biphenyls                            | mg/kg | 0.04  |                                     |                       |                      | -                  | -                  | -                  | -                  | -                  | -                  |
| C2 Dibenzothiophenes                    | mg/kg | 0.04  |                                     |                       |                      | -                  | -                  | -                  | -                  | -                  | -                  |
| C2 Fluoranthenes/Pyrenes                | mg/kg | 0.04  |                                     |                       |                      | -                  | -                  | -                  | -                  | -                  | -                  |
| C2 Naphthalenes                         | mg/kg | 0.04  |                                     |                       |                      | -                  | -                  | -                  | -                  | -                  | -                  |
| C2 Phenanthrenes/Anthracenes            | mg/kg | 0.04  |                                     |                       |                      | -                  | -                  | -                  | -                  | -                  | -                  |
| C2 Fluorenes                            | mg/kg | 0.04  |                                     |                       |                      | -                  | -                  | -                  | -                  | -                  | -                  |
| C2 subd B(a)Anthracenes/Chrysenes       | mg/kg | 0.04  |                                     |                       |                      | -                  | -                  | -                  | -                  | -                  | -                  |
| C3 Benzantracenes/Chrysenes             | mg/kg | 0.04  |                                     |                       |                      | -                  | -                  | -                  | -                  | -                  | -                  |
| C3 Dibenzothiophenes                    | mg/kg | 0.04  |                                     |                       |                      | -                  | -                  | -                  | -                  | -                  | -                  |
| C3 Fluoranthenes/Pyrenes                | mg/kg | 0.04  |                                     |                       |                      | -                  | -                  | -                  | -                  | -                  | -                  |
| C3 Fluorenes                            | mg/kg | 0.04  |                                     |                       |                      | -                  | -                  | -                  | -                  | -                  | -                  |
| C3 Naphthalenes                         | mg/kg | 0.04  |                                     |                       |                      | -                  | -                  | -                  | -                  | -                  | -                  |
| C3 Phenanthrenes/Anthracenes            | mg/kg | 0.04  |                                     |                       |                      | -                  | -                  | -                  | -                  | -                  | -                  |
| <b>Saturated Paste Extractables</b>     |       |       |                                     |                       |                      |                    |                    |                    |                    |                    |                    |
| Sulfur (as SO4)                         | mg/kg | 9.5   |                                     |                       |                      | 314 <sup>#1</sup>  | 234 <sup>#1</sup>  | 45 <sup>#1</sup>   | 178 <sup>#1</sup>  | 148 <sup>#1</sup>  | 3910 <sup>#1</sup> |
| Calcium                                 | mg/kg | 1.6   |                                     |                       |                      | 75 <sup>#1</sup>   | 73.1 <sup>#1</sup> | 41.6 <sup>#1</sup> | 35 <sup>#1</sup>   | 27.6 <sup>#1</sup> | 914 <sup>#1</sup>  |
| Chloride                                | mg/kg | 6.4   |                                     |                       |                      | <49 <sup>#1</sup>  | <21 <sup>#1</sup>  | <11 <sup>#1</sup>  | <8.4 <sup>#1</sup> | <7.6 <sup>#1</sup> | <37 <sup>#1</sup>  |
| Saturation Percentage                   | %     | 1     |                                     |                       |                      | 245                | 106                | 56.8               | 42.1               | 37.8               | 185                |
| Electrical Conductivity (lab)           | dS/m  | 0.01  |                                     |                       |                      | 0.435              | 0.879              | 0.591              | 1.02               | 0.926              | 3.09               |
| Magnesium                               | mg/kg | 0.95  |                                     |                       |                      | 13.9 <sup>#1</sup> | 16 <sup>#1</sup>   | 5.7 <sup>#1</sup>  | 11.4 <sup>#1</sup> | 6.4 <sup>#1</sup>  | 252 <sup>#1</sup>  |
| pH (Lab)                                | pH    | 0.1   | 6-8.5                               |                       |                      | 6.22               | 6.3                | 6.92               | 6.93               | 6.88               | 5.96               |
| Potassium                               | mg/kg | 0.64  |                                     |                       |                      | <4.9 <sup>#1</sup> | 5.3 <sup>#1</sup>  | 1.9 <sup>#1</sup>  | 1.9 <sup>#1</sup>  | 1 <sup>#1</sup>    | 9.8 <sup>#1</sup>  |
| Sodium                                  | mg/kg | 0.64  |                                     |                       |                      | 124 <sup>#1</sup>  | 92.7 <sup>#1</sup> | 21.8 <sup>#1</sup> | 32.9 <sup>#1</sup> | 29.3 <sup>#1</sup> | 222 <sup>#1</sup>  |
| Sodium Adsorption Ratio                 | ---   | 0.1   |                                     |                       |                      | 2.2 <sup>#1</sup>  | 2.49 <sup>#1</sup> | 1.12 <sup>#1</sup> | 1.9 <sup>#1</sup>  | 2.13 <sup>#1</sup> | 1.23 <sup>#1</sup> |
| <b>Speciated Metals</b>                 |       |       |                                     |                       |                      |                    |                    |                    |                    |                    |                    |
| Chromium (hexavalent)                   | mg/kg | 0.1   | 0.4                                 |                       |                      | <0.2               | <0.1               | <0.1               | <0.1               | <0.1               | <0.15              |
| <b>Volatile Organic Compounds</b>       |       |       |                                     |                       |                      |                    |                    |                    |                    |                    |                    |
| Benzene                                 | mg/kg | 0.005 | 0.046                               |                       |                      | -                  | -                  | -                  | -                  | -                  | -                  |
| Toluene                                 | mg/kg | 0.05  | 0.52                                |                       |                      | -                  | -                  | -                  | -                  | -                  | -                  |
| Ethylbenzene                            | mg/kg | 0.01  | 0.11                                |                       |                      | -                  | -                  | -                  | -                  | -                  | -                  |
| Xylene (m & p)                          | mg/kg | 0.05  |                                     |                       |                      | -                  | -                  | -                  | -                  | -                  | -                  |
| Xylene (o)                              | mg/kg | 0.05  |                                     |                       |                      | -                  | -                  | -                  | -                  | -                  | -                  |
| Xylenes Total                           | mg/kg | 0.1   | 15                                  |                       |                      | -                  | -                  | -                  | -                  | -                  | -                  |
| Styrene                                 | mg/kg | 0.05  | 0.68                                |                       |                      | -                  | -                  | -                  | -                  | -                  | -                  |

Comments  
#1 CALC

OBED MOUNTAIN MINE  
SOIL/SEDIMENT TABLE  
TABLE 4 - APETOWUN CREEK HEADWATERS

Monitoring Zone  
Location  
Date  
Depth (m)  
Lab Report  
Easting (NAD83 Zone 11N)  
Northing (NAD83 Zone 11N)

| ENV677S   | ENV678    |          | ENV678S   |          | ENV679    |          |
|-----------|-----------|----------|-----------|----------|-----------|----------|
| 30-Jan-14 | 30-Jan-14 |          | 30-Jan-14 |          | 30-Jan-14 |          |
| 0.05-0    | 0.2-0.5   | 0.5-1    | 0-0.2     | 0.03-0   | 0.2-0.5   | 0.5-1    |
| L1417727  | L1417727  | L1417727 | L1417727  | L1417727 | L1417727  | L1417727 |
| 471058    | 471076    | 471076   | 471076    | 471076   | 471048    | 471048   |
| 5938658   | 5938679   | 5938679  | 5938679   | 5938679  | 5938672   | 5938672  |

| Parameter                         | Unit         | MDL   | AB Tier 1, Natural Area (Fine Soil) | CSQG FW Sediment ISQG | CSQG FW Sediment PEL |                    |                   |                   |                    |                  |                    |                    |
|-----------------------------------|--------------|-------|-------------------------------------|-----------------------|----------------------|--------------------|-------------------|-------------------|--------------------|------------------|--------------------|--------------------|
| <b>Hydrocarbons</b>               |              |       |                                     |                       |                      |                    |                   |                   |                    |                  |                    |                    |
| F2 (C10-C16 Hydrocarbons)         | mg/kg        | 20    |                                     |                       |                      | -                  | -                 | -                 | -                  | -                | -                  |                    |
| Total Hydrocarbons (C6-C50)       | mg/kg        | 20    |                                     |                       |                      | -                  | -                 | -                 | -                  | -                | -                  |                    |
| Chrom. to baseline at nC50        | -            |       |                                     |                       |                      | -                  | -                 | -                 | -                  | -                | -                  |                    |
| Gravimetric Heavy Hydrocarbons    | mg/kg        | 500   |                                     |                       |                      | -                  | -                 | -                 | -                  | -                | -                  |                    |
| TEH: (C16-C34)                    | mg/kg        | 20    |                                     |                       |                      | -                  | -                 | -                 | -                  | -                | -                  |                    |
| TEH: (C34-C50)                    | mg/kg        | 20    |                                     |                       |                      | -                  | -                 | -                 | -                  | -                | -                  |                    |
| TVH                               | mg/kg        | 10    |                                     |                       |                      | -                  | -                 | -                 | -                  | -                | -                  |                    |
| TVH: (C6-C10 / BTEX CORRECTED)    | mg/kg        | 10    |                                     |                       |                      | -                  | -                 | -                 | -                  | -                | -                  |                    |
| <b>Leachable Metals</b>           |              |       |                                     |                       |                      |                    |                   |                   |                    |                  |                    |                    |
| Barium, extractable               | mg/kg        | 5     |                                     |                       |                      | 21.3               | 46.5              | 45.4              | 47.2               | 35.9             | 79.3               | 80.3               |
| Boron (B), Hot Water Ext.         | mg/kg        | 0.1   |                                     |                       |                      | 0.88               | 0.27              | 0.32              | 1.42               | 1.26             | 0.33               | 0.23               |
| <b>Metals</b>                     |              |       |                                     |                       |                      |                    |                   |                   |                    |                  |                    |                    |
| Aluminium                         | mg/kg        | 50    |                                     |                       |                      | -                  | -                 | -                 | -                  | -                | -                  | -                  |
| Antimony                          | mg/kg        | 0.1   | 20                                  |                       |                      | 0.24               | <0.2              | <0.2              | 0.24               | 0.3              | <0.2               | 0.22               |
| Arsenic                           | mg/kg        | 0.1   | 17                                  | 5.9                   | 17                   | 6.7                | 2.35              | 2.48              | 3.72               | 5.72             | 2.75               | 2.86               |
| Barium                            | mg/kg        | 0.5   | 750                                 |                       |                      | 356                | 173               | 155               | 223                | 289              | 228                | 240                |
| Beryllium                         | mg/kg        | 0.2   | 5                                   |                       |                      | <1                 | <1                | <1                | <1                 | <1               | <1                 | <1                 |
| Bismuth                           | mg/kg        | 0.2   |                                     |                       |                      | -                  | -                 | -                 | -                  | -                | -                  | -                  |
| Cadmium                           | mg/kg        | 0.1   | 3.8                                 | 0.6                   | 3.5                  | <0.5               | <0.5              | <0.5              | <0.5               | <0.5             | <0.5               | <0.5               |
| Calcium                           | mg/kg        | 100   |                                     |                       |                      | -                  | -                 | -                 | -                  | -                | -                  | -                  |
| Chromium (III+VI)                 | mg/kg        | 0.5   | 64                                  | 37.3                  | 90                   | 10.5               | 24.5              | 24.3              | 21.4               | 9.63             | 19.5               | 20.6               |
| Cobalt                            | mg/kg        | 0.1   | 20                                  |                       |                      | 5.4                | 9.9               | 10.3              | 5.8                | 5.4              | 5.4                | 6.4                |
| Copper                            | mg/kg        | 0.5   | 63                                  | 35.7                  | 197                  | 8.1                | 7.9               | 8.1               | 14.2               | 11.6             | 13.7               | 16.9               |
| Iron                              | mg/kg        | 50    |                                     |                       |                      | -                  | -                 | -                 | -                  | -                | -                  | -                  |
| Lead                              | mg/kg        | 0.5   | 70                                  | 35                    | 91.3                 | 7.3                | 10.7              | 10.7              | 7.8                | 7.5              | 8.6                | 9.3                |
| Lithium                           | mg/kg        | 0.5   |                                     |                       |                      | -                  | -                 | -                 | -                  | -                | -                  | -                  |
| Magnesium                         | mg/kg        | 20    |                                     |                       |                      | -                  | -                 | -                 | -                  | -                | -                  | -                  |
| Manganese                         | mg/kg        | 1     |                                     |                       |                      | -                  | -                 | -                 | -                  | -                | -                  | -                  |
| Mercury                           | mg/kg        | 0.005 | 12                                  | 0.17                  | 0.486                | 0.0414             | 0.0319            | 0.0325            | 0.0609             | 0.0524           | 0.057              | 0.0604             |
| Molybdenum                        | mg/kg        | 0.1   | 4                                   |                       |                      | <1                 | <1                | <1                | <1                 | <1               | <1                 | <1                 |
| Nickel                            | mg/kg        | 0.5   | 50                                  |                       |                      | 14.1               | 21.7              | 22.5              | 19.8               | 15.5             | 17.8               | 21.1               |
| Phosphorus                        | mg/kg        | 50    |                                     |                       |                      | -                  | -                 | -                 | -                  | -                | -                  | -                  |
| Potassium                         | mg/kg        | 50    |                                     |                       |                      | -                  | -                 | -                 | -                  | -                | -                  | -                  |
| Selenium                          | mg/kg        | 0.2   | 1                                   |                       |                      | <0.5               | <0.5              | <0.5              | 0.86               | 0.51             | <0.5               | <0.5               |
| Silver                            | mg/kg        | 0.2   | 20                                  |                       |                      | <1                 | <1                | <1                | <1                 | <1               | <1                 | <1                 |
| Sodium                            | mg/kg        | 100   |                                     |                       |                      | -                  | -                 | -                 | -                  | -                | -                  | -                  |
| Strontium                         | mg/kg        | 1     |                                     |                       |                      | -                  | -                 | -                 | -                  | -                | -                  | -                  |
| Thallium                          | mg/kg        | 0.05  | 1                                   |                       |                      | <0.5               | <0.5              | <0.5              | <0.5               | <0.5             | <0.5               | <0.5               |
| Tin                               | mg/kg        | 2     | 5                                   |                       |                      | <5                 | <5                | <5                | <5                 | <5               | <5                 | <5                 |
| Titanium                          | mg/kg        | 1     |                                     |                       |                      | -                  | -                 | -                 | -                  | -                | -                  | -                  |
| Uranium                           | mg/kg        | 0.05  | 33                                  |                       |                      | <2                 | <2                | <2                | <2                 | <2               | <2                 | <2                 |
| Vanadium                          | mg/kg        | 0.2   | 130                                 |                       |                      | 15.5               | 32.8              | 29.2              | 22.5               | 15.7             | 24.2               | 25.4               |
| Zinc                              | mg/kg        | 5     | 200                                 | 123                   | 315                  | 37                 | 81                | 74                | 48                 | 36               | 60                 | 67                 |
| <b>Organic / Inorganic Carbon</b> |              |       |                                     |                       |                      |                    |                   |                   |                    |                  |                    |                    |
| CaCO3 Equivalent                  | %            | 0.8   |                                     |                       |                      | 1.89               | <0.8              | <0.8              | <0.8               | 1.58             | <0.8               | <0.8               |
| Inorganic Carbon                  | mg/kg        | 0.1   |                                     |                       |                      | 0.23               | <0.1              | <0.1              | <0.1               | 0.19             | <0.1               | <0.1               |
| TOC                               | % dry weight | 0.1   |                                     |                       |                      | 1.98 <sup>#1</sup> | 3.3 <sup>#1</sup> | 2.2 <sup>#1</sup> | 5.11 <sup>#1</sup> | 11 <sup>#1</sup> | 2.55 <sup>#1</sup> | 2.47 <sup>#1</sup> |
| Total Carbon by Combustion        | %            | 0.1   |                                     |                       |                      | 2.2                | 3.3               | 2.2               | 5.1                | 11.2             | 2.5                | 2.5                |
| <b>Particle Size</b>              |              |       |                                     |                       |                      |                    |                   |                   |                    |                  |                    |                    |
| Soil Particle Size (>75 um)       | % by weight  | 1     |                                     |                       |                      | 66.8               | 9.4               | 14.4              | 19.3               | 43.7             | 20.2               | 17.4               |
| <b>Physical Tests</b>             |              |       |                                     |                       |                      |                    |                   |                   |                    |                  |                    |                    |
| Moisture                          | %            | 0.1   |                                     |                       |                      | 26.3               | 23.5              | 33.7              | 57.2               | 52.5             | 28.8               | 28.5               |

OBED MOUNTAIN MINE  
SOIL/SEDIMENT TABLE  
TABLE 4 - APETOWUN CREEK HEADWATERS

Monitoring Zone  
Location  
Date  
Depth (m)  
Lab Report  
Easting (NAD83 Zone 11N)  
Northing (NAD83 Zone 11N)

| ENV677S   | ENV678    |          |          |          | ENV678S   | ENV679    |
|-----------|-----------|----------|----------|----------|-----------|-----------|
| 30-Jan-14 | 30-Jan-14 |          |          |          | 30-Jan-14 | 30-Jan-14 |
| 0.05-0    | 0.2-0.5   | 0.5-1    | 0-0.2    | 0.03-0   | 0.2-0.5   | 0.5-1     |
| L1417727  | L1417727  | L1417727 | L1417727 | L1417727 | L1417727  | L1417727  |
| 471058    | 471076    | 471076   | 471076   | 471076   | 471048    | 471048    |
| 5938658   | 5938679   | 5938679  | 5938679  | 5938679  | 5938672   | 5938672   |

| Parameter                               | Unit  | MDL   | AB Tier 1, Natural Area (Fine Soil) | CSQG FW Sediment ISQG | CSQG FW Sediment PEL |                    |                    |                    |                    |                    |                    |                    |
|---|-------|-------|-------------------------------------|-----------------------|----------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|
| <b>Polycyclic Aromatic Hydrocarbons</b> |       |       |                                     |                       |                      |                    |                    |                    |                    |                    |                    |                    |
| Benzofl(u)anthrene                      | mg/kg | 0.005 | 6.2                                 |                       |                      | -                  | -                  | -                  | -                  | -                  | -                  |                    |
| C4 Benzantracenes/Chrysenes             | mg/kg | 0.04  |                                     |                       |                      | -                  | -                  | -                  | -                  | -                  | -                  |                    |
| C4 Dibenzothiophenes                    | mg/kg | 0.04  |                                     |                       |                      | -                  | -                  | -                  | -                  | -                  | -                  |                    |
| C4 Fluoranthenes/Pyrenes                | mg/kg | 0.04  |                                     |                       |                      | -                  | -                  | -                  | -                  | -                  | -                  |                    |
| C4 Naphthalenes                         | mg/kg | 0.04  |                                     |                       |                      | -                  | -                  | -                  | -                  | -                  | -                  |                    |
| C4 Phenanthrenes/Anthracenes            | mg/kg | 0.04  |                                     |                       |                      | -                  | -                  | -                  | -                  | -                  | -                  |                    |
| Biphenyl                                | mg/kg | 0.01  |                                     |                       |                      | -                  | -                  | -                  | -                  | -                  | -                  |                    |
| 1-Methylnaphthalene                     | mg/kg | 0.01  |                                     |                       |                      | -                  | -                  | -                  | -                  | -                  | -                  |                    |
| 2-methylnaphthalene                     | mg/kg | 0.005 |                                     | 0.0202                | 0.201                | -                  | -                  | -                  | -                  | -                  | -                  |                    |
| Acenaphthene                            | mg/kg | 0.005 | 0.32                                | 0.00671               | 0.0899               | -                  | -                  | -                  | -                  | -                  | -                  |                    |
| Acenaphthylene                          | mg/kg | 0.005 | 5                                   | 0.00587               | 0.128                | -                  | -                  | -                  | -                  | -                  | -                  |                    |
| Anthracene                              | mg/kg | 0.004 | 0.0046                              | 0.00469               | 0.245                | -                  | -                  | -                  | -                  | -                  | -                  |                    |
| Benz(a)anthracene                       | mg/kg | 0.005 | 0.07                                | 0.0317                | 0.385                | -                  | -                  | -                  | -                  | -                  | -                  |                    |
| Benzo(a)pyrene                          | mg/kg | 0.005 | 0.6                                 | 0.0319                | 0.782                | -                  | -                  | -                  | -                  | -                  | -                  |                    |
| Acridine                                | mg/kg | 0.005 |                                     |                       |                      | -                  | -                  | -                  | -                  | -                  | -                  |                    |
| Benzo(e)pyrene                          | mg/kg | 0.01  |                                     |                       |                      | -                  | -                  | -                  | -                  | -                  | -                  |                    |
| Benzo(g,h,i)perylene                    | mg/kg | 0.005 |                                     |                       |                      | -                  | -                  | -                  | -                  | -                  | -                  |                    |
| Benzo(k)fluoranthene                    | mg/kg | 0.005 | 6.2                                 |                       |                      | -                  | -                  | -                  | -                  | -                  | -                  |                    |
| C1 Acenaphthenes                        | mg/kg | 0.04  |                                     |                       |                      | -                  | -                  | -                  | -                  | -                  | -                  |                    |
| C1 Benz(a)Anthracenes/Chrysenes         | mg/kg | 0.04  |                                     |                       |                      | -                  | -                  | -                  | -                  | -                  | -                  |                    |
| C1 Benzofluoranthenes/Benzopyrenes      | mg/kg | 0.04  |                                     |                       |                      | -                  | -                  | -                  | -                  | -                  | -                  |                    |
| C1 Biphenyls                            | mg/kg | 0.04  |                                     |                       |                      | -                  | -                  | -                  | -                  | -                  | -                  |                    |
| C1 Dibenzothiophenes                    | mg/kg | 0.04  |                                     |                       |                      | -                  | -                  | -                  | -                  | -                  | -                  |                    |
| Chrysene                                | mg/kg | 0.005 | 6.2                                 | 0.0571                | 0.862                | -                  | -                  | -                  | -                  | -                  | -                  |                    |
| C1 Fluoranthenes/Pyrenes                | mg/kg | 0.04  |                                     |                       |                      | -                  | -                  | -                  | -                  | -                  | -                  |                    |
| C1 Fluorenes                            | mg/kg | 0.04  |                                     |                       |                      | -                  | -                  | -                  | -                  | -                  | -                  |                    |
| C1 Phenanthrenes/Anthracenes            | mg/kg | 0.04  |                                     |                       |                      | -                  | -                  | -                  | -                  | -                  | -                  |                    |
| Dibenz(a,h)anthracene                   | mg/kg | 0.005 | 7.4                                 | 0.00622               | 0.135                | -                  | -                  | -                  | -                  | -                  | -                  |                    |
| Dibenzothiophene                        | mg/kg | 0.01  |                                     |                       |                      | -                  | -                  | -                  | -                  | -                  | -                  |                    |
| Fluoranthene                            | mg/kg | 0.005 | 0.032                               | 0.111                 | 2.355                | -                  | -                  | -                  | -                  | -                  | -                  |                    |
| Fluorene                                | mg/kg | 0.005 | 0.29                                | 0.0212                | 0.144                | -                  | -                  | -                  | -                  | -                  | -                  |                    |
| Indeno(1,2,3-c,d)pyrene                 | mg/kg | 0.005 |                                     |                       |                      | -                  | -                  | -                  | -                  | -                  | -                  |                    |
| Naphthalene                             | mg/kg | 0.005 | 0.016                               | 0.0346                | 0.391                | -                  | -                  | -                  | -                  | -                  | -                  |                    |
| Perylene                                | mg/kg | 0.01  |                                     |                       |                      | -                  | -                  | -                  | -                  | -                  | -                  |                    |
| Phenanthrene                            | mg/kg | 0.005 | 0.051                               | 0.0419                | 0.515                | -                  | -                  | -                  | -                  | -                  | -                  |                    |
| Pyrene                                  | mg/kg | 0.005 | 0.034                               | 0.053                 | 0.875                | -                  | -                  | -                  | -                  | -                  | -                  |                    |
| Quinoline                               | mg/kg | 0.005 |                                     |                       |                      | -                  | -                  | -                  | -                  | -                  | -                  |                    |
| Retene                                  | mg/kg | 0.01  |                                     |                       |                      | -                  | -                  | -                  | -                  | -                  | -                  |                    |
| C2 Benzofluoranthenes/Benzopyrenes      | mg/kg | 0.04  |                                     |                       |                      | -                  | -                  | -                  | -                  | -                  | -                  |                    |
| C2 Biphenyls                            | mg/kg | 0.04  |                                     |                       |                      | -                  | -                  | -                  | -                  | -                  | -                  |                    |
| C2 Dibenzothiophenes                    | mg/kg | 0.04  |                                     |                       |                      | -                  | -                  | -                  | -                  | -                  | -                  |                    |
| C2 Fluoranthenes/Pyrenes                | mg/kg | 0.04  |                                     |                       |                      | -                  | -                  | -                  | -                  | -                  | -                  |                    |
| C2 Naphthalenes                         | mg/kg | 0.04  |                                     |                       |                      | -                  | -                  | -                  | -                  | -                  | -                  |                    |
| C2 Phenanthrenes/Anthracenes            | mg/kg | 0.04  |                                     |                       |                      | -                  | -                  | -                  | -                  | -                  | -                  |                    |
| C2 Fluorenes                            | mg/kg | 0.04  |                                     |                       |                      | -                  | -                  | -                  | -                  | -                  | -                  |                    |
| C2 subd B(a)Anthracenes/Chrysenes       | mg/kg | 0.04  |                                     |                       |                      | -                  | -                  | -                  | -                  | -                  | -                  |                    |
| C3 Benzantracenes/Chrysenes             | mg/kg | 0.04  |                                     |                       |                      | -                  | -                  | -                  | -                  | -                  | -                  |                    |
| C3 Dibenzothiophenes                    | mg/kg | 0.04  |                                     |                       |                      | -                  | -                  | -                  | -                  | -                  | -                  |                    |
| C3 Fluoranthenes/Pyrenes                | mg/kg | 0.04  |                                     |                       |                      | -                  | -                  | -                  | -                  | -                  | -                  |                    |
| C3 Fluorenes                            | mg/kg | 0.04  |                                     |                       |                      | -                  | -                  | -                  | -                  | -                  | -                  |                    |
| C3 Naphthalenes                         | mg/kg | 0.04  |                                     |                       |                      | -                  | -                  | -                  | -                  | -                  | -                  |                    |
| C3 Phenanthrenes/Anthracenes            | mg/kg | 0.04  |                                     |                       |                      | -                  | -                  | -                  | -                  | -                  | -                  |                    |
| <b>Saturated Paste Extractables</b>     |       |       |                                     |                       |                      |                    |                    |                    |                    |                    |                    |                    |
| Sulfur (as SO4)                         | mg/kg | 9.5   |                                     |                       |                      | 805 <sup>#1</sup>  | 93 <sup>#1</sup>   | 91 <sup>#1</sup>   | 384 <sup>#1</sup>  | 273 <sup>#1</sup>  | 46 <sup>#1</sup>   | 55 <sup>#1</sup>   |
| Calcium                                 | mg/kg | 1.6   |                                     |                       |                      | 196 <sup>#1</sup>  | 22.9 <sup>#1</sup> | 20.3 <sup>#1</sup> | 70.3 <sup>#1</sup> | 76.6 <sup>#1</sup> | 14.2 <sup>#1</sup> | 45 <sup>#1</sup>   |
| Chloride                                | mg/kg | 6.4   |                                     |                       |                      | <8.9 <sup>#1</sup> | <11 <sup>#1</sup>  | <11 <sup>#1</sup>  | <19 <sup>#1</sup>  | <15 <sup>#1</sup>  | <10 <sup>#1</sup>  | <11 <sup>#1</sup>  |
| Saturation Percentage                   | %     | 1     |                                     |                       |                      | 44.7               | 55.7               | 57                 | 94                 | 73.7               | 50.5               | 56.3               |
| Electrical Conductivity (lab)           | dS/m  | 0.01  |                                     |                       |                      | 2.8                | 0.602              | 0.543              | 0.933              | 0.979              | 0.386              | 0.804              |
| Magnesium                               | mg/kg | 0.95  |                                     |                       |                      | 39.5 <sup>#1</sup> | 5.4 <sup>#1</sup>  | 4.3 <sup>#1</sup>  | 18.9 <sup>#1</sup> | 17.6 <sup>#1</sup> | 4.1 <sup>#1</sup>  | 7.7 <sup>#1</sup>  |
| pH (Lab)                                | pH    | 0.1   | 6-8.5                               |                       |                      | 7.04               | 6.26               | 6.34               | 6.13               | 6.87               | 6.45               | 6.68               |
| Potassium                               | mg/kg | 0.64  |                                     |                       |                      | 3.31 <sup>#1</sup> | 1.9 <sup>#1</sup>  | 1.7 <sup>#1</sup>  | 3.8 <sup>#1</sup>  | 3.8 <sup>#1</sup>  | 1.1 <sup>#1</sup>  | 1.2 <sup>#1</sup>  |
| Sodium                                  | mg/kg | 0.64  |                                     |                       |                      | 64.4 <sup>#1</sup> | 38.7 <sup>#1</sup> | 33.7 <sup>#1</sup> | 75.6 <sup>#1</sup> | 43.4 <sup>#1</sup> | 20.7 <sup>#1</sup> | 46.3 <sup>#1</sup> |
| Sodium Adsorption Ratio                 | ---   | 0.1   |                                     |                       |                      | 1.64 <sup>#1</sup> | 2.54 <sup>#1</sup> | 2.35 <sup>#1</sup> | 2.13 <sup>#1</sup> | 1.35 <sup>#1</sup> | 1.75 <sup>#1</sup> | 2.23 <sup>#1</sup> |
| <b>Speciated Metals</b>                 |       |       |                                     |                       |                      |                    |                    |                    |                    |                    |                    |                    |
| Chromium (hexavalent)                   | mg/kg | 0.1   | 0.4                                 |                       |                      | <0.1               | <0.1               | <0.1               | <0.1               | <0.1               | <0.1               | <0.1               |
| <b>Volatile Organic Compounds</b>       |       |       |                                     |                       |                      |                    |                    |                    |                    |                    |                    |                    |
| Benzene                                 | mg/kg | 0.005 | 0.046                               |                       |                      | -                  | -                  | -                  | -                  | -                  | -                  | -                  |
| Toluene                                 | mg/kg | 0.05  | 0.52                                |                       |                      | -                  | -                  | -                  | -                  | -                  | -                  | -                  |
| Ethylbenzene                            | mg/kg | 0.01  | 0.11                                |                       |                      | -                  | -                  | -                  | -                  | -                  | -                  | -                  |
| Xylene (m & p)                          | mg/kg | 0.05  |                                     |                       |                      | -                  | -                  | -                  | -                  | -                  | -                  | -                  |
| Xylene (o)                              | mg/kg | 0.05  |                                     |                       |                      | -                  | -                  | -                  | -                  | -                  | -                  | -                  |
| Xylenes Total                           | mg/kg | 0.1   | 15                                  |                       |                      | -                  | -                  | -                  | -                  | -                  | -                  | -                  |
| Styrene                                 | mg/kg | 0.05  | 0.68                                |                       |                      | -                  | -                  | -                  | -                  | -                  | -                  | -                  |

Comments  
#1 CALC



OBED MOUNTAIN MINE  
SOIL/SEDIMENT TABLE  
TABLE 4 - APETOWUN CREEK HEADWATERS

Monitoring Zone  
Location  
Date  
Depth (m)  
Lab Report  
Easting (NAD83 Zone 11N)  
Northing (NAD83 Zone 11N)

|          |          | ENV680    |          |          | ENV681    |          |          |          |
|----------|----------|-----------|----------|----------|-----------|----------|----------|----------|
|          |          | 30-Jan-14 |          |          | 30-Jan-14 |          |          |          |
|          |          | 0-0.2     | 0.2-0.5  | 0-0.2    | 0.2-0.5   | 0.5-1    | 0-0.2    | 0.2-0.5  |
| L1417727 | L1417727 | L1417727  | L1417727 | L1417727 | L1417727  | L1417727 | L1417727 | L1417727 |
| 471048   | 471025   | 471025    | 471037   | 471037   | 471037    | 471037   | 471037   | 471056   |
| 5938672  | 5938697  | 5938697   | 5938704  | 5938704  | 5938704   | 5938704  | 5938704  | 5938698  |

| Parameter                         | Unit         | MDL   | AB Tier 1, Natural Area (Fine Soil) | CSQG FW Sediment ISQG | CSQG FW Sediment PEL |                    |                   |                    |                    |                    |                    |                    |
|-----------------------------------|--------------|-------|-------------------------------------|-----------------------|----------------------|--------------------|-------------------|--------------------|--------------------|--------------------|--------------------|--------------------|
| <b>Hydrocarbons</b>               |              |       |                                     |                       |                      |                    |                   |                    |                    |                    |                    |                    |
| F2 (C10-C16 Hydrocarbons)         | mg/kg        | 20    |                                     |                       |                      | -                  | -                 | -                  | -                  | -                  | -                  | -                  |
| Total Hydrocarbons (C6-C50)       | mg/kg        | 20    |                                     |                       |                      | -                  | -                 | -                  | -                  | -                  | -                  | -                  |
| Chrom. to baseline at nC50        | -            |       |                                     |                       |                      | -                  | -                 | -                  | -                  | -                  | -                  | -                  |
| Gravimetric Heavy Hydrocarbons    | mg/kg        | 500   |                                     |                       |                      | -                  | -                 | -                  | -                  | -                  | -                  | -                  |
| TEH: (C16-C34)                    | mg/kg        | 20    |                                     |                       |                      | -                  | -                 | -                  | -                  | -                  | -                  | -                  |
| TEH: (C34-C50)                    | mg/kg        | 20    |                                     |                       |                      | -                  | -                 | -                  | -                  | -                  | -                  | -                  |
| TVH                               | mg/kg        | 10    |                                     |                       |                      | -                  | -                 | -                  | -                  | -                  | -                  | -                  |
| TVH: (C6-C10 / BTEX CORRECTED)    | mg/kg        | 10    |                                     |                       |                      | -                  | -                 | -                  | -                  | -                  | -                  | -                  |
| <b>Leachable Metals</b>           |              |       |                                     |                       |                      |                    |                   |                    |                    |                    |                    |                    |
| Barium, extractable               | mg/kg        | 5     |                                     |                       |                      | 123                | 34.1              | 62.5               | 45.2               | 58.1               | 38.5               | 53                 |
| Boron (B), Hot Water Ext.         | mg/kg        | 0.1   |                                     |                       |                      | 1.35               | 0.67              | 3.5                | 3.18               | 0.47               | 3.39               | 7.23               |
| <b>Metals</b>                     |              |       |                                     |                       |                      |                    |                   |                    |                    |                    |                    |                    |
| Aluminium                         | mg/kg        | 50    |                                     |                       |                      | -                  | -                 | -                  | -                  | -                  | -                  | -                  |
| Antimony                          | mg/kg        | 0.1   | 20                                  |                       |                      | 0.79               | <0.2              | <0.2               | 0.53               | 0.4                | 0.6                | 0.72               |
| Arsenic                           | mg/kg        | 0.1   | 17                                  | 5.9                   | 17                   | 3.88               | 6.56              | 3.88               | 4.64               | 4.4                | 5.26               | 3.64               |
| Barium                            | mg/kg        | 0.5   | 750                                 |                       |                      | 510                | 126               | 192                | 214                | 137                | 245                | 323                |
| Beryllium                         | mg/kg        | 0.2   | 5                                   |                       |                      | <1                 | <1                | <1                 | <1                 | <1                 | <1                 | <1                 |
| Bismuth                           | mg/kg        | 0.2   |                                     |                       |                      | -                  | -                 | -                  | -                  | -                  | -                  | -                  |
| Cadmium                           | mg/kg        | 0.1   | 3.8                                 | 0.6                   | 3.5                  | 2.33               | <0.5              | <0.5               | <0.5               | <0.5               | <0.5               | 0.54               |
| Calcium                           | mg/kg        | 100   |                                     |                       |                      | -                  | -                 | -                  | -                  | -                  | -                  | -                  |
| Chromium (III+VI)                 | mg/kg        | 0.5   | 64                                  | 37.3                  | 90                   | 9.17               | 38.5              | 3.35               | 16.6               | 21.5               | 19.7               | 9.56               |
| Cobalt                            | mg/kg        | 0.1   | 20                                  |                       |                      | 4.2                | 4.6               | 4.4                | 5.8                | 6.9                | 6.1                | 3.9                |
| Copper                            | mg/kg        | 0.5   | 63                                  | 35.7                  | 197                  | 42.2               | 6                 | 5.2                | 19.8               | 35.1               | 21.1               | 17.4               |
| Iron                              | mg/kg        | 50    |                                     |                       |                      | -                  | -                 | -                  | -                  | -                  | -                  | -                  |
| Lead                              | mg/kg        | 0.5   | 70                                  | 35                    | 91.3                 | <5                 | 6.9               | <5                 | 9.3                | 8.5                | 9.8                | 5.8                |
| Lithium                           | mg/kg        | 0.5   |                                     |                       |                      | -                  | -                 | -                  | -                  | -                  | -                  | -                  |
| Magnesium                         | mg/kg        | 20    |                                     |                       |                      | -                  | -                 | -                  | -                  | -                  | -                  | -                  |
| Manganese                         | mg/kg        | 1     |                                     |                       |                      | -                  | -                 | -                  | -                  | -                  | -                  | -                  |
| Mercury                           | mg/kg        | 0.005 | 12                                  | 0.17                  | 0.486                | 0.183              | 0.021             | 0.0423             | 0.0948             | 0.15               | 0.0837             | 0.0776             |
| Molybdenum                        | mg/kg        | 0.1   | 4                                   |                       |                      | 1.7                | 1.7               | 2.6                | 3.4                | 1                  | 2.9                | 3.9                |
| Nickel                            | mg/kg        | 0.5   | 50                                  |                       |                      | 25                 | 20.3              | 7.4                | 18.1               | 24.8               | 21.5               | 18.3               |
| Phosphorus                        | mg/kg        | 50    |                                     |                       |                      | -                  | -                 | -                  | -                  | -                  | -                  | -                  |
| Potassium                         | mg/kg        | 50    |                                     |                       |                      | -                  | -                 | -                  | -                  | -                  | -                  | -                  |
| Selenium                          | mg/kg        | 0.2   | 1                                   |                       |                      | 3.45               | <0.5              | <0.5               | 0.61               | 0.6                | 0.6                | 1.57               |
| Silver                            | mg/kg        | 0.2   | 20                                  |                       |                      | <1                 | <1                | <1                 | <1                 | <1                 | <1                 | <1                 |
| Sodium                            | mg/kg        | 100   |                                     |                       |                      | -                  | -                 | -                  | -                  | -                  | -                  | -                  |
| Strontium                         | mg/kg        | 1     |                                     |                       |                      | -                  | -                 | -                  | -                  | -                  | -                  | -                  |
| Thallium                          | mg/kg        | 0.05  | 1                                   |                       |                      | <0.5               | <0.5              | <0.5               | <0.5               | <0.5               | <0.5               | <0.5               |
| Tin                               | mg/kg        | 2     | 5                                   |                       |                      | <5                 | <5                | <5                 | <5                 | <5                 | <5                 | <5                 |
| Titanium                          | mg/kg        | 1     |                                     |                       |                      | -                  | -                 | -                  | -                  | -                  | -                  | -                  |
| Uranium                           | mg/kg        | 0.05  | 33                                  |                       |                      | 11.2               | <2                | 5.9                | 3.9                | <2                 | 3.1                | 7.1                |
| Vanadium                          | mg/kg        | 0.2   | 130                                 |                       |                      | 18.1               | 19                | 7.3                | 24.2               | 23.7               | 25.5               | 13.4               |
| Zinc                              | mg/kg        | 5     | 200                                 | 123                   | 315                  | 26                 | 32                | 28                 | 46                 | 51                 | 52                 | 28                 |
| <b>Organic / Inorganic Carbon</b> |              |       |                                     |                       |                      |                    |                   |                    |                    |                    |                    |                    |
| CaCO3 Equivalent                  | %            | 0.8   |                                     |                       |                      | 1.51               | <0.8              | 2.34               | 2.42               | 8.26               | 0.81               | 1.33               |
| Inorganic Carbon                  | mg/kg        | 0.1   |                                     |                       |                      | 0.18               | <0.1              | 0.28               | 0.29               | 0.99               | <0.1               | 0.16               |
| TOC                               | % dry weight | 0.1   |                                     |                       |                      | 23.8 <sup>#1</sup> | 2.7 <sup>#1</sup> | 22.5 <sup>#1</sup> | 28.7 <sup>#1</sup> | 1.35 <sup>#1</sup> | 16.7 <sup>#1</sup> | 19.3 <sup>#1</sup> |
| Total Carbon by Combustion        | %            | 0.1   |                                     |                       |                      | 24                 | 2.7               | 22.8               | 29                 | 2.3                | 16.7               | 19.4               |
| <b>Particle Size</b>              |              |       |                                     |                       |                      |                    |                   |                    |                    |                    |                    |                    |
| Soil Particle Size (>75 um)       | % by weight  | 1     |                                     |                       |                      | 9.7                | 44.8              | 48.8               | 15.2               | 19.5               | 5.2                | 23.8               |
| <b>Physical Tests</b>             |              |       |                                     |                       |                      |                    |                   |                    |                    |                    |                    |                    |
| Moisture                          | %            | 0.1   |                                     |                       |                      | 62                 | 32.8              | 74.3               | 71.4               | 47                 | 78.2               | 84.3               |

OBED MOUNTAIN MINE  
SOIL/SEDIMENT TABLE  
TABLE 4 - APETOWUN CREEK HEADWATERS

Monitoring Zone  
Location  
Date  
Depth (m)  
Lab Report  
Easting (NAD83 Zone 11N)  
Northing (NAD83 Zone 11N)

| ENV680    |          | ENV681    |          |          |          |          |  |
|-----------|----------|-----------|----------|----------|----------|----------|--|
| 30-Jan-14 |          | 30-Jan-14 |          |          |          |          |  |
| 0-0.2     | 0.2-0.5  | 0-0.2     | 0.2-0.5  | 0.5-1    | 0-0.2    | 0.2-0.5  |  |
| L1417727  | L1417727 | L1417727  | L1417727 | L1417727 | L1417727 | L1417727 |  |
| 471048    | 471025   | 471025    | 471037   | 471037   | 471037   | 471056   |  |
| 5938672   | 5938697  | 5938697   | 5938704  | 5938704  | 5938704  | 5938698  |  |

| Parameter                               | Unit  | MDL   | AB Tier 1, Natural Area (Fine Soil) | CSQG FW Sediment ISQG | CSQG FW Sediment PEL |                    |                    |                    |                    |                    |                    |                    |
|---|-------|-------|-------------------------------------|-----------------------|----------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|
| <b>Polycyclic Aromatic Hydrocarbons</b> |       |       |                                     |                       |                      |                    |                    |                    |                    |                    |                    |                    |
| Benzo[b]fluoranthene                    | mg/kg | 0.005 | 6.2                                 |                       |                      | -                  | -                  | -                  | -                  | -                  | -                  |                    |
| C4 Benzantracenes/Chrysenes             | mg/kg | 0.04  |                                     |                       |                      | -                  | -                  | -                  | -                  | -                  | -                  |                    |
| C4 Dibenzothiophenes                    | mg/kg | 0.04  |                                     |                       |                      | -                  | -                  | -                  | -                  | -                  | -                  |                    |
| C4 Fluoranthenes/Pyrenes                | mg/kg | 0.04  |                                     |                       |                      | -                  | -                  | -                  | -                  | -                  | -                  |                    |
| C4 Naphthalenes                         | mg/kg | 0.04  |                                     |                       |                      | -                  | -                  | -                  | -                  | -                  | -                  |                    |
| C4 Phenanthrenes/Anthracenes            | mg/kg | 0.04  |                                     |                       |                      | -                  | -                  | -                  | -                  | -                  | -                  |                    |
| Biphenyl                                | mg/kg | 0.01  |                                     |                       |                      | -                  | -                  | -                  | -                  | -                  | -                  |                    |
| 1-Methylnaphthalene                     | mg/kg | 0.01  |                                     |                       |                      | -                  | -                  | -                  | -                  | -                  | -                  |                    |
| 2-methylnaphthalene                     | mg/kg | 0.005 |                                     | 0.0202                | 0.201                | -                  | -                  | -                  | -                  | -                  | -                  |                    |
| Acenaphthene                            | mg/kg | 0.005 | 0.32                                | 0.00671               | 0.0899               | -                  | -                  | -                  | -                  | -                  | -                  |                    |
| Acenaphthylene                          | mg/kg | 0.005 | 5                                   | 0.00587               | 0.128                | -                  | -                  | -                  | -                  | -                  | -                  |                    |
| Anthracene                              | mg/kg | 0.004 | 0.0046                              | 0.00469               | 0.245                | -                  | -                  | -                  | -                  | -                  | -                  |                    |
| Benz(a)anthracene                       | mg/kg | 0.005 | 0.07                                | 0.0317                | 0.385                | -                  | -                  | -                  | -                  | -                  | -                  |                    |
| Benzo(a)pyrene                          | mg/kg | 0.005 | 0.6                                 | 0.0319                | 0.782                | -                  | -                  | -                  | -                  | -                  | -                  |                    |
| Acridine                                | mg/kg | 0.005 |                                     |                       |                      | -                  | -                  | -                  | -                  | -                  | -                  |                    |
| Benzo(e)pyrene                          | mg/kg | 0.01  |                                     |                       |                      | -                  | -                  | -                  | -                  | -                  | -                  |                    |
| Benzo(g,h,i)perylene                    | mg/kg | 0.005 |                                     |                       |                      | -                  | -                  | -                  | -                  | -                  | -                  |                    |
| Benzo(k)fluoranthene                    | mg/kg | 0.005 | 6.2                                 |                       |                      | -                  | -                  | -                  | -                  | -                  | -                  |                    |
| C1 Acenaphthenes                        | mg/kg | 0.04  |                                     |                       |                      | -                  | -                  | -                  | -                  | -                  | -                  |                    |
| C1 Benz(a)Anthracenes/Chrysenes         | mg/kg | 0.04  |                                     |                       |                      | -                  | -                  | -                  | -                  | -                  | -                  |                    |
| C1 Benzofluoranthenes/Benzopyrenes      | mg/kg | 0.04  |                                     |                       |                      | -                  | -                  | -                  | -                  | -                  | -                  |                    |
| C1 Biphenyls                            | mg/kg | 0.04  |                                     |                       |                      | -                  | -                  | -                  | -                  | -                  | -                  |                    |
| C1 Dibenzothiophenes                    | mg/kg | 0.04  |                                     |                       |                      | -                  | -                  | -                  | -                  | -                  | -                  |                    |
| Chrysene                                | mg/kg | 0.005 | 6.2                                 | 0.0571                | 0.862                | -                  | -                  | -                  | -                  | -                  | -                  |                    |
| C1 Fluoranthenes/Pyrenes                | mg/kg | 0.04  |                                     |                       |                      | -                  | -                  | -                  | -                  | -                  | -                  |                    |
| C1 Fluorenes                            | mg/kg | 0.04  |                                     |                       |                      | -                  | -                  | -                  | -                  | -                  | -                  |                    |
| C1 Phenanthrenes/Anthracenes            | mg/kg | 0.04  |                                     |                       |                      | -                  | -                  | -                  | -                  | -                  | -                  |                    |
| Dibenz(a,h)anthracene                   | mg/kg | 0.005 | 7.4                                 | 0.00622               | 0.135                | -                  | -                  | -                  | -                  | -                  | -                  |                    |
| Dibenzothiophene                        | mg/kg | 0.01  |                                     |                       |                      | -                  | -                  | -                  | -                  | -                  | -                  |                    |
| Fluoranthene                            | mg/kg | 0.005 | 0.032                               | 0.111                 | 2.355                | -                  | -                  | -                  | -                  | -                  | -                  |                    |
| Fluorene                                | mg/kg | 0.005 | 0.29                                | 0.0212                | 0.144                | -                  | -                  | -                  | -                  | -                  | -                  |                    |
| Indeno(1,2,3-c,d)pyrene                 | mg/kg | 0.005 |                                     |                       |                      | -                  | -                  | -                  | -                  | -                  | -                  |                    |
| Naphthalene                             | mg/kg | 0.005 | 0.016                               | 0.0346                | 0.391                | -                  | -                  | -                  | -                  | -                  | -                  |                    |
| Perylene                                | mg/kg | 0.01  |                                     |                       |                      | -                  | -                  | -                  | -                  | -                  | -                  |                    |
| Phenanthrene                            | mg/kg | 0.005 | 0.051                               | 0.0419                | 0.515                | -                  | -                  | -                  | -                  | -                  | -                  |                    |
| Pyrene                                  | mg/kg | 0.005 | 0.034                               | 0.053                 | 0.875                | -                  | -                  | -                  | -                  | -                  | -                  |                    |
| Quinoline                               | mg/kg | 0.005 |                                     |                       |                      | -                  | -                  | -                  | -                  | -                  | -                  |                    |
| Retene                                  | mg/kg | 0.01  |                                     |                       |                      | -                  | -                  | -                  | -                  | -                  | -                  |                    |
| C2 Benzofluoranthenes/Benzopyrenes      | mg/kg | 0.04  |                                     |                       |                      | -                  | -                  | -                  | -                  | -                  | -                  |                    |
| C2 Biphenyls                            | mg/kg | 0.04  |                                     |                       |                      | -                  | -                  | -                  | -                  | -                  | -                  |                    |
| C2 Dibenzothiophenes                    | mg/kg | 0.04  |                                     |                       |                      | -                  | -                  | -                  | -                  | -                  | -                  |                    |
| C2 Fluoranthenes/Pyrenes                | mg/kg | 0.04  |                                     |                       |                      | -                  | -                  | -                  | -                  | -                  | -                  |                    |
| C2 Naphthalenes                         | mg/kg | 0.04  |                                     |                       |                      | -                  | -                  | -                  | -                  | -                  | -                  |                    |
| C2 Phenanthrenes/Anthracenes            | mg/kg | 0.04  |                                     |                       |                      | -                  | -                  | -                  | -                  | -                  | -                  |                    |
| C2 Fluorenes                            | mg/kg | 0.04  |                                     |                       |                      | -                  | -                  | -                  | -                  | -                  | -                  |                    |
| C2 subd B(a)Anthracenes/Chrysenes       | mg/kg | 0.04  |                                     |                       |                      | -                  | -                  | -                  | -                  | -                  | -                  |                    |
| C3 Benzantracenes/Chrysenes             | mg/kg | 0.04  |                                     |                       |                      | -                  | -                  | -                  | -                  | -                  | -                  |                    |
| C3 Dibenzothiophenes                    | mg/kg | 0.04  |                                     |                       |                      | -                  | -                  | -                  | -                  | -                  | -                  |                    |
| C3 Fluoranthenes/Pyrenes                | mg/kg | 0.04  |                                     |                       |                      | -                  | -                  | -                  | -                  | -                  | -                  |                    |
| C3 Fluorenes                            | mg/kg | 0.04  |                                     |                       |                      | -                  | -                  | -                  | -                  | -                  | -                  |                    |
| C3 Naphthalenes                         | mg/kg | 0.04  |                                     |                       |                      | -                  | -                  | -                  | -                  | -                  | -                  |                    |
| C3 Phenanthrenes/Anthracenes            | mg/kg | 0.04  |                                     |                       |                      | -                  | -                  | -                  | -                  | -                  | -                  |                    |
| <b>Saturated Paste Extractables</b>     |       |       |                                     |                       |                      |                    |                    |                    |                    |                    |                    |                    |
| Sulfur (as SO4)                         | mg/kg | 9.5   |                                     |                       |                      | 241 <sup>#1</sup>  | 125 <sup>#1</sup>  | 500 <sup>#1</sup>  | 1780 <sup>#1</sup> | 77 <sup>#1</sup>   | 1780 <sup>#1</sup> | 1400 <sup>#1</sup> |
| Calcium                                 | mg/kg | 1.6   |                                     |                       |                      | 75 <sup>#1</sup>   | 28.4 <sup>#1</sup> | 116 <sup>#1</sup>  | 331 <sup>#1</sup>  | 42 <sup>#1</sup>   | 340 <sup>#1</sup>  | 316 <sup>#1</sup>  |
| Chloride                                | mg/kg | 6.4   |                                     |                       |                      | <54 <sup>#1</sup>  | 12 <sup>#1</sup>   | <100 <sup>#1</sup> | 102 <sup>#1</sup>  | <11 <sup>#1</sup>  | 60 <sup>#1</sup>   | <76 <sup>#1</sup>  |
| Saturation Percentage                   | %     | 1     |                                     |                       |                      | 268                | 61.1               | 521                | 306                | 55.5               | 274                | 378                |
| Electrical Conductivity (lab)           | dS/m  | 0.01  |                                     |                       |                      | 0.37               | 0.672              | 0.37               | 1.16               | 0.854              | 1.28               | 0.922              |
| Magnesium                               | mg/kg | 0.95  |                                     |                       |                      | 14.6 <sup>#1</sup> | 7.9 <sup>#1</sup>  | 30 <sup>#1</sup>   | 102 <sup>#1</sup>  | 8.6 <sup>#1</sup>  | 104 <sup>#1</sup>  | 94 <sup>#1</sup>   |
| pH (Lab)                                | pH    | 0.1   | 6-8.5                               |                       |                      | 6.39               | 6.54               | 6.23               | 6.58               | 6.54               | 6.4                | 6.54               |
| Potassium                               | mg/kg | 0.64  |                                     |                       |                      | <5.4 <sup>#1</sup> | 2.5 <sup>#1</sup>  | 18 <sup>#1</sup>   | 23.4 <sup>#1</sup> | 3.8 <sup>#1</sup>  | 23.4 <sup>#1</sup> | 19.9 <sup>#1</sup> |
| Sodium                                  | mg/kg | 0.64  |                                     |                       |                      | 132 <sup>#1</sup>  | 42.8 <sup>#1</sup> | 232 <sup>#1</sup>  | 239 <sup>#1</sup>  | 44.8 <sup>#1</sup> | 226 <sup>#1</sup>  | 256 <sup>#1</sup>  |
| Sodium Adsorption Ratio                 | ---   | 0.1   |                                     |                       |                      | 2.24 <sup>#1</sup> | 2.35 <sup>#1</sup> | 2.17 <sup>#1</sup> | 1.69 <sup>#1</sup> | 2.21 <sup>#1</sup> | 1.66 <sup>#1</sup> | 1.67 <sup>#1</sup> |
| <b>Speciated Metals</b>                 |       |       |                                     |                       |                      |                    |                    |                    |                    |                    |                    |                    |
| Chromium (hexavalent)                   | mg/kg | 0.1   | 0.4                                 |                       |                      | <0.15              | <0.1               | <0.15              | <0.15              | <0.1               | <0.2               | <0.25              |
| <b>Volatile Organic Compounds</b>       |       |       |                                     |                       |                      |                    |                    |                    |                    |                    |                    |                    |
| Benzene                                 | mg/kg | 0.005 | 0.046                               |                       |                      | -                  | -                  | -                  | -                  | -                  | -                  | -                  |
| Toluene                                 | mg/kg | 0.05  | 0.52                                |                       |                      | -                  | -                  | -                  | -                  | -                  | -                  | -                  |
| Ethylbenzene                            | mg/kg | 0.01  | 0.11                                |                       |                      | -                  | -                  | -                  | -                  | -                  | -                  | -                  |
| Xylene (m & p)                          | mg/kg | 0.05  |                                     |                       |                      | -                  | -                  | -                  | -                  | -                  | -                  | -                  |
| Xylene (o)                              | mg/kg | 0.05  |                                     |                       |                      | -                  | -                  | -                  | -                  | -                  | -                  | -                  |
| Xylenes Total                           | mg/kg | 0.1   | 15                                  |                       |                      | -                  | -                  | -                  | -                  | -                  | -                  | -                  |
| Styrene                                 | mg/kg | 0.05  | 0.68                                |                       |                      | -                  | -                  | -                  | -                  | -                  | -                  | -                  |

Comments  
#1 CALC

OBED MOUNTAIN MINE  
SOIL/SEDIMENT TABLE  
TABLE 4 - APETOWUN CREEK HEADWATERS

Monitoring Zone  
Location  
Date  
Depth (m)  
Lab Report  
Easting (NAD83 Zone 11N)  
Northing (NAD83 Zone 11N)

| ENV682    |          | ENV683    |          |          | ENV683S   |  |
|-----------|----------|-----------|----------|----------|-----------|--|
| 30-Jan-14 |          | 30-Jan-14 |          |          | 30-Jan-14 |  |
| 0.5-1     | 0-0.2    | 0.2-0.5   | 0.5-1    | 0-0.2    | 0.05-0    |  |
| L1417727  | L1417727 | L1417727  | L1417727 | L1417727 | L1417727  |  |
| 471056    | 471056   | 471086    | 471086   | 471086   | 471086    |  |
| 5938698   | 5938698  | 5938696   | 5938696  | 5938696  | 5938696   |  |

| Parameter                         | Unit         | MDL   | AB Tier 1,<br>Natural Area<br>(Fine Soil) | CSQG FW<br>Sediment<br>ISQG | CSQG FW<br>Sediment PEL |                    |                    |                    |                    |                  |                    |
|-----------------------------------|--------------|-------|---|-----------------------------|-------------------------|--------------------|--------------------|--------------------|--------------------|------------------|--------------------|
| <b>Hydrocarbons</b>               |              |       |   |                             |                         |                    |                    |                    |                    |                  |                    |
| F2 (C10-C16 Hydrocarbons)         | mg/kg        | 20    |   |                             |                         | -                  | -                  | -                  | -                  | -                | -                  |
| Total Hydrocarbons (C6-C50)       | mg/kg        | 20    |   |                             |                         | -                  | -                  | -                  | -                  | -                | -                  |
| Chrom. to baseline at nC50        | -            |       |   |                             |                         | -                  | -                  | -                  | -                  | -                | -                  |
| Gravimetric Heavy Hydrocarbons    | mg/kg        | 500   |   |                             |                         | -                  | -                  | -                  | -                  | -                | -                  |
| TEH: (C16-C34)                    | mg/kg        | 20    |   |                             |                         | -                  | -                  | -                  | -                  | -                | -                  |
| TEH: (C34-C50)                    | mg/kg        | 20    |   |                             |                         | -                  | -                  | -                  | -                  | -                | -                  |
| TVH                               | mg/kg        | 10    |   |                             |                         | -                  | -                  | -                  | -                  | -                | -                  |
| TVH: (C6-C10 / BTEX CORRECTED)    | mg/kg        | 10    |   |                             |                         | -                  | -                  | -                  | -                  | -                | -                  |
| <b>Leachable Metals</b>           |              |       |   |                             |                         |                    |                    |                    |                    |                  |                    |
| Barium, extractable               | mg/kg        | 5     |   |                             |                         | 40.9               | 62                 | 71.1               | 43.6               | 12.2             | 57.9               |
| Boron (B), Hot Water Ext.         | mg/kg        | 0.1   |   |                             |                         | 0.33               | 8.22               | 0.87               | 0.34               | 5.7              | 0.84               |
| <b>Metals</b>                     |              |       |   |                             |                         |                    |                    |                    |                    |                  |                    |
| Aluminium                         | mg/kg        | 50    |   |                             |                         | -                  | -                  | -                  | -                  | -                | -                  |
| Antimony                          | mg/kg        | 0.1   | 20  |                             |                         | 0.23               | 0.84               | <0.2               | 0.24               | 0.47             | 0.41               |
| Arsenic                           | mg/kg        | 0.1   | 17  | 5.9                         | 17                      | 5                  | 3.2                | 2.6                | 6.36               | 5.65             | 6.38               |
| Barium                            | mg/kg        | 0.5   | 750                                       |                             |                         | 172                | 268                | 241                | 171                | 416              | 581                |
| Beryllium                         | mg/kg        | 0.2   | 5   |                             |                         | <1                 | <1                 | <1                 | <1                 | <1               | <1                 |
| Bismuth                           | mg/kg        | 0.2   |   |                             |                         | -                  | -                  | -                  | -                  | -                | -                  |
| Cadmium                           | mg/kg        | 0.1   | 3.8                                       | 0.6                         | 3.5                     | <0.5               | 0.59               | <0.5               | <0.5               | 1.53             | <0.5               |
| Calcium                           | mg/kg        | 100   |   |                             |                         | -                  | -                  | -                  | -                  | -                | -                  |
| Chromium (III+VI)                 | mg/kg        | 0.5   | 64  | 37.3                        | 90                      | 20.3               | 5.51               | 18.5               | 22.3               | 9.52             | 15.6               |
| Cobalt                            | mg/kg        | 0.1   | 20  |                             |                         | 10.1               | 2.9                | 8.7                | 8.1                | 6.7              | 7.5                |
| Copper                            | mg/kg        | 0.5   | 63  | 35.7                        | 197                     | 11.7               | 16.2               | 9.7                | 9.4                | 16.3             | 18.3               |
| Iron                              | mg/kg        | 50    |   |                             |                         | -                  | -                  | -                  | -                  | -                | -                  |
| Lead                              | mg/kg        | 0.5   | 70  | 35                          | 91.3                    | 9                  | <5                 | 7.9                | 9.7                | 8.1              | 13.4               |
| Lithium                           | mg/kg        | 0.5   |   |                             |                         | -                  | -                  | -                  | -                  | -                | -                  |
| Magnesium                         | mg/kg        | 20    |   |                             |                         | -                  | -                  | -                  | -                  | -                | -                  |
| Manganese                         | mg/kg        | 1     |   |                             |                         | -                  | -                  | -                  | -                  | -                | -                  |
| Mercury                           | mg/kg        | 0.005 | 12  | 0.17                        | 0.486                   | 0.0632             | 0.0584             | 0.0597             | 0.032              | 0.0601           | 0.0825             |
| Molybdenum                        | mg/kg        | 0.1   | 4   |                             |                         | <1                 | 4.5                | <1                 | <1                 | 5.4              | 1.6                |
| Nickel                            | mg/kg        | 0.5   | 50  |                             |                         | 21.3               | 17.2               | 18.5               | 20.6               | 18.8             | 20.2               |
| Phosphorus                        | mg/kg        | 50    |   |                             |                         | -                  | -                  | -                  | -                  | -                | -                  |
| Potassium                         | mg/kg        | 50    |   |                             |                         | -                  | -                  | -                  | -                  | -                | -                  |
| Selenium                          | mg/kg        | 0.2   | 1   |                             |                         | <0.5               | 1.79               | <0.5               | <0.5               | 0.66             | <0.5               |
| Silver                            | mg/kg        | 0.2   | 20  |                             |                         | <1                 | <1                 | <1                 | <1                 | <1               | <1                 |
| Sodium                            | mg/kg        | 100   |   |                             |                         | -                  | -                  | -                  | -                  | -                | -                  |
| Strontium                         | mg/kg        | 1     |   |                             |                         | -                  | -                  | -                  | -                  | -                | -                  |
| Thallium                          | mg/kg        | 0.05  | 1   |                             |                         | <0.5               | <0.5               | <0.5               | <0.5               | <0.5             | <0.5               |
| Tin                               | mg/kg        | 2     | 5   |                             |                         | <5                 | <5                 | <5                 | <5                 | <5               | <5                 |
| Titanium                          | mg/kg        | 1     |   |                             |                         | -                  | -                  | -                  | -                  | -                | -                  |
| Uranium                           | mg/kg        | 0.05  | 33  |                             |                         | <2                 | 10.1               | <2                 | <2                 | 2.5              | 2.3                |
| Vanadium                          | mg/kg        | 0.2   | 130                                       |                             |                         | 23.9               | 9.4                | 24.6               | 27.1               | 15.3             | 22.4               |
| Zinc                              | mg/kg        | 5     | 200                                       | 123                         | 315                     | 45                 | 20                 | 52                 | 55                 | 46               | 65                 |
| <b>Organic / Inorganic Carbon</b> |              |       |   |                             |                         |                    |                    |                    |                    |                  |                    |
| CaCO3 Equivalent                  | %            | 0.8   |   |                             |                         | <0.8               | 1.9                | <0.8               | <0.8               | 1.45             | 1.55               |
| Inorganic Carbon                  | mg/kg        | 0.1   |   |                             |                         | <0.1               | 0.23               | <0.1               | <0.1               | 0.17             | 0.19               |
| TOC                               | % dry weight | 0.1   |   |                             |                         | 1.68 <sup>#1</sup> | 33.9 <sup>#1</sup> | 5.25 <sup>#1</sup> | 1.76 <sup>#1</sup> | 22 <sup>#1</sup> | 8.82 <sup>#1</sup> |
| Total Carbon by Combustion        | %            | 0.1   |   |                             |                         | 1.7                | 34.1               | 5.2                | 1.8                | 22.2             | 9                  |
| <b>Particle Size</b>              |              |       |   |                             |                         |                    |                    |                    |                    |                  |                    |
| Soil Particle Size (>75 um)       | % by weight  | 1     |   |                             |                         | 27.9               | 27.6               | 18.3               | 14.3               | 25.1             | 7.2                |
| <b>Physical Tests</b>             |              |       |   |                             |                         |                    |                    |                    |                    |                  |                    |
| Moisture                          | %            | 0.1   |   |                             |                         | 23.1               | 86.6               | 32.1               | 31.4               | 63.5             | 51.2               |

OBED MOUNTAIN MINE  
SOIL/SEDIMENT TABLE  
TABLE 4 - APETOWUN CREEK HEADWATERS

Monitoring Zone  
Location  
Date  
Depth (m)  
Lab Report  
Easting (NAD83 Zone 11N)  
Northing (NAD83 Zone 11N)

| ENV682    |          | ENV683    |          |          | ENV683S   |
|-----------|----------|-----------|----------|----------|-----------|
| 30-Jan-14 |          | 30-Jan-14 |          |          | 30-Jan-14 |
| 0.5-1     | 0-0.2    | 0.2-0.5   | 0.5-1    | 0-0.2    | 0.05-0    |
| L1417727  | L1417727 | L1417727  | L1417727 | L1417727 | L1417727  |
| 471056    | 471056   | 471086    | 471086   | 471086   | 471086    |
| 5938698   | 5938698  | 5938696   | 5938696  | 5938696  | 5938696   |

| Parameter                               | Unit  | MDL   | AB Tier 1, Natural Area (Fine Soil) | CSQG FW Sediment ISQG | CSQG FW Sediment PEL |                    |                    |                    |                    |                    |                    |
|---|-------|-------|-------------------------------------|-----------------------|----------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|
| <b>Polycyclic Aromatic Hydrocarbons</b> |       |       |                                     |                       |                      |                    |                    |                    |                    |                    |                    |
| Benzo[b]fluoranthene                    | mg/kg | 0.005 | 6.2                                 |                       |                      | -                  | -                  | -                  | -                  | -                  | -                  |
| C4 Benzoanthracenes/Chrysenes           | mg/kg | 0.04  |                                     |                       |                      | -                  | -                  | -                  | -                  | -                  | -                  |
| C4 Dibenzothiophenes                    | mg/kg | 0.04  |                                     |                       |                      | -                  | -                  | -                  | -                  | -                  | -                  |
| C4 Fluoranthenes/Pyrenes                | mg/kg | 0.04  |                                     |                       |                      | -                  | -                  | -                  | -                  | -                  | -                  |
| C4 Naphthalenes                         | mg/kg | 0.04  |                                     |                       |                      | -                  | -                  | -                  | -                  | -                  | -                  |
| C4 Phenanthrenes/Anthracenes            | mg/kg | 0.04  |                                     |                       |                      | -                  | -                  | -                  | -                  | -                  | -                  |
| Biphenyl                                | mg/kg | 0.01  |                                     |                       |                      | -                  | -                  | -                  | -                  | -                  | -                  |
| 1-Methylnaphthalene                     | mg/kg | 0.01  |                                     |                       |                      | -                  | -                  | -                  | -                  | -                  | -                  |
| 2-methylnaphthalene                     | mg/kg | 0.005 |                                     | 0.0202                | 0.201                | -                  | -                  | -                  | -                  | -                  | -                  |
| Acenaphthene                            | mg/kg | 0.005 | 0.32                                | 0.00671               | 0.0899               | -                  | -                  | -                  | -                  | -                  | -                  |
| Acenaphthylene                          | mg/kg | 0.005 | 5                                   | 0.00587               | 0.128                | -                  | -                  | -                  | -                  | -                  | -                  |
| Anthracene                              | mg/kg | 0.004 | 0.0046                              | 0.00469               | 0.245                | -                  | -                  | -                  | -                  | -                  | -                  |
| Benz(a)anthracene                       | mg/kg | 0.005 | 0.07                                | 0.0317                | 0.385                | -                  | -                  | -                  | -                  | -                  | -                  |
| Benzo(a)pyrene                          | mg/kg | 0.005 | 0.6                                 | 0.0319                | 0.782                | -                  | -                  | -                  | -                  | -                  | -                  |
| Acridine                                | mg/kg | 0.005 |                                     |                       |                      | -                  | -                  | -                  | -                  | -                  | -                  |
| Benzo(e)pyrene                          | mg/kg | 0.01  |                                     |                       |                      | -                  | -                  | -                  | -                  | -                  | -                  |
| Benzo(g,h,i)perylene                    | mg/kg | 0.005 |                                     |                       |                      | -                  | -                  | -                  | -                  | -                  | -                  |
| Benzo(k)fluoranthene                    | mg/kg | 0.005 | 6.2                                 |                       |                      | -                  | -                  | -                  | -                  | -                  | -                  |
| C1 Acenaphthenes                        | mg/kg | 0.04  |                                     |                       |                      | -                  | -                  | -                  | -                  | -                  | -                  |
| C1 Benz(a)Anthracenes/Chrysenes         | mg/kg | 0.04  |                                     |                       |                      | -                  | -                  | -                  | -                  | -                  | -                  |
| C1 Benzofluoranthenes/Benzopyrenes      | mg/kg | 0.04  |                                     |                       |                      | -                  | -                  | -                  | -                  | -                  | -                  |
| C1 Biphenyls                            | mg/kg | 0.04  |                                     |                       |                      | -                  | -                  | -                  | -                  | -                  | -                  |
| C1 Dibenzothiophenes                    | mg/kg | 0.04  |                                     |                       |                      | -                  | -                  | -                  | -                  | -                  | -                  |
| Chrysene                                | mg/kg | 0.005 | 6.2                                 | 0.0571                | 0.862                | -                  | -                  | -                  | -                  | -                  | -                  |
| C1 Fluoranthenes/Pyrenes                | mg/kg | 0.04  |                                     |                       |                      | -                  | -                  | -                  | -                  | -                  | -                  |
| C1 Fluorenes                            | mg/kg | 0.04  |                                     |                       |                      | -                  | -                  | -                  | -                  | -                  | -                  |
| C1 Phenanthrenes/Anthracenes            | mg/kg | 0.04  |                                     |                       |                      | -                  | -                  | -                  | -                  | -                  | -                  |
| Dibenz(a,h)anthracene                   | mg/kg | 0.005 | 7.4                                 | 0.00622               | 0.135                | -                  | -                  | -                  | -                  | -                  | -                  |
| Dibenzothiophene                        | mg/kg | 0.01  |                                     |                       |                      | -                  | -                  | -                  | -                  | -                  | -                  |
| Fluoranthene                            | mg/kg | 0.005 | 0.032                               | 0.111                 | 2.355                | -                  | -                  | -                  | -                  | -                  | -                  |
| Fluorene                                | mg/kg | 0.005 | 0.29                                | 0.0212                | 0.144                | -                  | -                  | -                  | -                  | -                  | -                  |
| Indeno(1,2,3-c,d)pyrene                 | mg/kg | 0.005 |                                     |                       |                      | -                  | -                  | -                  | -                  | -                  | -                  |
| Naphthalene                             | mg/kg | 0.005 | 0.016                               | 0.0346                | 0.391                | -                  | -                  | -                  | -                  | -                  | -                  |
| Perylene                                | mg/kg | 0.01  |                                     |                       |                      | -                  | -                  | -                  | -                  | -                  | -                  |
| Phenanthrene                            | mg/kg | 0.005 | 0.051                               | 0.0419                | 0.515                | -                  | -                  | -                  | -                  | -                  | -                  |
| Pyrene                                  | mg/kg | 0.005 | 0.034                               | 0.053                 | 0.875                | -                  | -                  | -                  | -                  | -                  | -                  |
| Quinoline                               | mg/kg | 0.005 |                                     |                       |                      | -                  | -                  | -                  | -                  | -                  | -                  |
| Retene                                  | mg/kg | 0.01  |                                     |                       |                      | -                  | -                  | -                  | -                  | -                  | -                  |
| C2 Benzofluoranthenes/Benzopyrenes      | mg/kg | 0.04  |                                     |                       |                      | -                  | -                  | -                  | -                  | -                  | -                  |
| C2 Biphenyls                            | mg/kg | 0.04  |                                     |                       |                      | -                  | -                  | -                  | -                  | -                  | -                  |
| C2 Dibenzothiophenes                    | mg/kg | 0.04  |                                     |                       |                      | -                  | -                  | -                  | -                  | -                  | -                  |
| C2 Fluoranthenes/Pyrenes                | mg/kg | 0.04  |                                     |                       |                      | -                  | -                  | -                  | -                  | -                  | -                  |
| C2 Naphthalenes                         | mg/kg | 0.04  |                                     |                       |                      | -                  | -                  | -                  | -                  | -                  | -                  |
| C2 Phenanthrenes/Anthracenes            | mg/kg | 0.04  |                                     |                       |                      | -                  | -                  | -                  | -                  | -                  | -                  |
| C2 Fluorenes                            | mg/kg | 0.04  |                                     |                       |                      | -                  | -                  | -                  | -                  | -                  | -                  |
| C2 subd B(a)Anthracenes/Chrysenes       | mg/kg | 0.04  |                                     |                       |                      | -                  | -                  | -                  | -                  | -                  | -                  |
| C3 Benzoanthracenes/Chrysenes           | mg/kg | 0.04  |                                     |                       |                      | -                  | -                  | -                  | -                  | -                  | -                  |
| C3 Dibenzothiophenes                    | mg/kg | 0.04  |                                     |                       |                      | -                  | -                  | -                  | -                  | -                  | -                  |
| C3 Fluoranthenes/Pyrenes                | mg/kg | 0.04  |                                     |                       |                      | -                  | -                  | -                  | -                  | -                  | -                  |
| C3 Fluorenes                            | mg/kg | 0.04  |                                     |                       |                      | -                  | -                  | -                  | -                  | -                  | -                  |
| C3 Naphthalenes                         | mg/kg | 0.04  |                                     |                       |                      | -                  | -                  | -                  | -                  | -                  | -                  |
| C3 Phenanthrenes/Anthracenes            | mg/kg | 0.04  |                                     |                       |                      | -                  | -                  | -                  | -                  | -                  | -                  |
| <b>Saturated Paste Extractables</b>     |       |       |                                     |                       |                      |                    |                    |                    |                    |                    |                    |
| Sulfur (as SO4)                         | mg/kg | 9.5   |                                     |                       |                      | 66 <sup>#1</sup>   | 1930 <sup>#1</sup> | 396 <sup>#1</sup>  | 167 <sup>#1</sup>  | 4140 <sup>#1</sup> | 378 <sup>#1</sup>  |
| Calcium                                 | mg/kg | 1.6   |                                     |                       |                      | 13 <sup>#1</sup>   | 397 <sup>#1</sup>  | 78.5 <sup>#1</sup> | 34.8 <sup>#1</sup> | 1120 <sup>#1</sup> | 115 <sup>#1</sup>  |
| Chloride                                | mg/kg | 6.4   |                                     |                       |                      | <10 <sup>#1</sup>  | <92 <sup>#1</sup>  | <15 <sup>#1</sup>  | <9.7 <sup>#1</sup> | <73 <sup>#1</sup>  | <21 <sup>#1</sup>  |
| Saturation Percentage                   | %     | 1     |                                     |                       |                      | 51.1               | 461                | 77                 | 48.6               | 364                | 106                |
| Electrical Conductivity (lab)           | dS/m  | 0.01  |                                     |                       |                      | 0.359              | 0.997              | 1.05               | 0.767              | 2.04               | 1.04               |
| Magnesium                               | mg/kg | 0.95  |                                     |                       |                      | 2.6 <sup>#1</sup>  | 117 <sup>#1</sup>  | 18.9 <sup>#1</sup> | 8.4 <sup>#1</sup>  | 248 <sup>#1</sup>  | 27.6 <sup>#1</sup> |
| pH (Lab)                                | pH    | 0.1   | 6-8.5                               |                       |                      | 6.29               | 6.47               | 6.08               | 6.26               | 6.13               | 7.36               |
| Potassium                               | mg/kg | 0.64  |                                     |                       |                      | <1 <sup>#1</sup>   | 20.3 <sup>#1</sup> | 1.6 <sup>#1</sup>  | 1.06 <sup>#1</sup> | 26.8 <sup>#1</sup> | 7.1 <sup>#1</sup>  |
| Sodium                                  | mg/kg | 0.64  |                                     |                       |                      | 16.2 <sup>#1</sup> | 348 <sup>#1</sup>  | 57.6 <sup>#1</sup> | 22.1 <sup>#1</sup> | 289 <sup>#1</sup>  | 79.8 <sup>#1</sup> |
| Sodium Adsorption Ratio                 | ---   | 0.1   |                                     |                       |                      | 1.5 <sup>#1</sup>  | 1.84 <sup>#1</sup> | 1.73 <sup>#1</sup> | 1.25 <sup>#1</sup> | 1.07 <sup>#1</sup> | 1.69 <sup>#1</sup> |
| <b>Speciated Metals</b>                 |       |       |                                     |                       |                      |                    |                    |                    |                    |                    |                    |
| Chromium (hexavalent)                   | mg/kg | 0.1   | 0.4                                 |                       |                      | 0.13               | <0.3               | <0.1               | <0.1               | <0.15              | <0.1               |
| <b>Volatile Organic Compounds</b>       |       |       |                                     |                       |                      |                    |                    |                    |                    |                    |                    |
| Benzene                                 | mg/kg | 0.005 | 0.046                               |                       |                      | -                  | -                  | -                  | -                  | -                  | -                  |
| Toluene                                 | mg/kg | 0.05  | 0.52                                |                       |                      | -                  | -                  | -                  | -                  | -                  | -                  |
| Ethylbenzene                            | mg/kg | 0.01  | 0.11                                |                       |                      | -                  | -                  | -                  | -                  | -                  | -                  |
| Xylene (m & p)                          | mg/kg | 0.05  |                                     |                       |                      | -                  | -                  | -                  | -                  | -                  | -                  |
| Xylene (o)                              | mg/kg | 0.05  |                                     |                       |                      | -                  | -                  | -                  | -                  | -                  | -                  |
| Xylenes Total                           | mg/kg | 0.1   | 15                                  |                       |                      | -                  | -                  | -                  | -                  | -                  | -                  |
| Styrene                                 | mg/kg | 0.05  | 0.68                                |                       |                      | -                  | -                  | -                  | -                  | -                  | -                  |

Comments  
#1 CALC