

Table - 8
Stream Water Quality
Blacklick Creek Main Stem

| Location ID | Name | Beginning Sample Date | Ending Sample Date | Flow | Average pH | Number of pH Samples | Number of Al Samples | Average Al | Number of Iron Samples | Average Iron | Number of Mn Samples | Average Mn | Number of Sulfate Samples | Average Sulfate | Number of Acidity Samples | Average Acidity | Total Average |
|-------------|-----------------------------------|-----------------------|--------------------|-----------|------------|----------------------|----------------------|------------|------------------------|--------------|----------------------|------------|---------------------------|-----------------|---------------------------|-----------------|---------------|
| BCMS-165 | Laurel Run | 6/1/2002 | 6/1/2002 | 3.00 | 6.15 | 1 | 1 | 3.42 | 1 | 729.80 | 1 | 2.99 | 1 | 460.00 | 1 | 1.00 | 239.44 |
| BCMS-161 | Laurel Run Sample | 6/1/2002 | 6/1/2002 | 10.00 | 4.67 | 1 | 1 | 3.91 | 1 | 138.00 | 1 | 14.40 | 1 | 728.00 | 1 | 242.00 | 225.26 |
| BCMS-120 | Mardis Run | 6/1/2002 | 6/1/2002 | 600.00 | 3.42 | 1 | 1 | 14.90 | 1 | 83.20 | 1 | 1.98 | 1 | 582.00 | 1 | 54.00 | 147.22 |
| BCMS-169 | Un-named Trib. To Blacklick Creek | 6/1/2002 | 6/1/2002 | 98.00 | 3.23 | 1 | 1 | 11.90 | 1 | 3.28 | 1 | 18.50 | 1 | 593.00 | 1 | 102.00 | 145.74 |
| BCMS-179 | Un-named Trib. To Blacklick Creek | 6/1/2002 | 6/1/2002 | 50.00 | 12.10 | 1 | 1 | 12.20 | 1 | 0.23 | 1 | 0.06 | 1 | 575.00 | 1 | 1.00 | 117.70 |
| BCMS-205 | Blacklick Creek | 6/1/2002 | 6/1/2002 | | 4.60 | 1 | 1 | 1.27 | 1 | 0.94 | 1 | 0.83 | 1 | 550.00 | 1 | 22.00 | 115.01 |
| BCMS-147 | Brush Creek | 6/1/2002 | 6/1/2002 | | 7.42 | 1 | 1 | 0.10 | 1 | 0.24 | 1 | 0.57 | 1 | 530.00 | 1 | 1.00 | 106.38 |
| BCMS-233 | Blacklick Creek | 7/18/1988 | 10/5/1990 | 31418.00 | 5.37 | 10 | | | 10 | 4.60 | 10 | 0.61 | 10 | 333.80 | 10 | 57.60 | 99.15 |
| BCMS-236 | Blacklick Creek, downstream | 5/6/1986 | 12/1/1994 | 56066.50 | 4.21 | 30 | 1 | 1.73 | 30 | 19.31 | 30 | 1.11 | 30 | 393.99 | 30 | 67.31 | 96.69 |
| BCMS-203 | Laurel Run | 6/1/2002 | 6/1/2002 | | 6.29 | 1 | 1 | 0.56 | 1 | 28.20 | 1 | 1.91 | 1 | 420.00 | 1 | 31.60 | 96.45 |
| BCMS-132 | Laurel Run | 6/1/2002 | 6/1/2002 | 500.00 | 3.11 | 1 | 1 | 12.30 | 1 | 10.20 | 1 | 1.06 | 1 | 335.00 | 1 | 111.60 | 94.03 |
| BCMS-127 | Laurel Run Sample | 6/1/2002 | 6/1/2002 | 70.00 | 4.28 | 1 | 1 | 9.48 | 1 | 0.12 | 1 | 2.24 | 1 | 388.00 | 1 | 49.00 | 89.77 |
| BCMS-174 | Un-named Trib. To Blacklick Creek | 6/1/2002 | 6/1/2002 | 300.00 | 5.70 | 1 | 1 | 0.01 | 1 | 47.10 | 1 | 7.10 | 1 | 335.00 | 1 | 59.00 | 89.64 |
| BCMS-248 | upstream of 50-4. | 5/9/2000 | 7/21/2000 | 176.00 | 5.21 | 4 | 4 | 1.41 | 4 | 10.58 | 4 | 2.12 | 4 | 408.75 | 4 | 22.08 | 88.99 |
| BCMS-234 | Blacklick Creek | 5/6/1986 | 11/21/1993 | 33214.29 | 4.77 | 57 | | | 57 | 6.49 | 57 | 0.76 | 57 | 300.49 | 57 | 43.37 | 87.78 |
| BCMS-247 | Downstream of 50-4. | 5/9/2000 | 7/21/2000 | 147.33 | 5.43 | 4 | 4 | 1.30 | 4 | 9.82 | 4 | 2.33 | 4 | 391.75 | 4 | 26.45 | 86.33 |
| BCMS-125 | Laurel Run Sample | 6/1/2002 | 6/1/2002 | 50.00 | 4.35 | 1 | 1 | 1.93 | 1 | 0.36 | 1 | 1.90 | 1 | 408.00 | 1 | 14.80 | 85.40 |
| BCMS-126 | Laurel Run Sample | 6/1/2002 | 6/1/2002 | 50.00 | 4.96 | 1 | 1 | 0.77 | 1 | 0.14 | 1 | 0.95 | 1 | 385.00 | 1 | 7.20 | 78.81 |
| BCMS-178 | Un-named Trib. To Blacklick Creek | 6/1/2002 | 6/1/2002 | 60.00 | 6.61 | 1 | 1 | 0.58 | 1 | 0.43 | 1 | 5.90 | 1 | 385.00 | 1 | 1.00 | 78.58 |
| BCMS-114 | BC at T-660 Bridge | 1/10/1985 | 8/18/1988 | 167785.95 | 4.15 | 33 | 33 | 5.12 | 33 | 7.01 | 33 | 1.25 | 29 | 369.45 | 2 | 1.20 | 76.81 |
| BCMS-175 | Un-named Trib. To Blacklick Creek | 6/1/2002 | 6/1/2002 | 50.00 | 4.70 | 1 | 1 | 3.36 | 1 | 5.70 | 1 | 8.40 | 1 | 335.00 | 1 | 27.20 | 75.93 |
| BCMS-128 | Laurel Run Sample | 6/1/2002 | 6/1/2002 | 50.00 | 7.66 | 1 | 1 | 0.10 | 1 | 0.03 | 1 | 0.04 | 1 | 370.00 | 1 | 1.00 | 74.23 |
| BCMS-235 | Blacklick Creek | 6/26/1986 | 3/24/1998 | 55100.00 | 4.48 | 49 | 14 | 2.78 | 49 | 6.43 | 49 | 1.01 | 49 | 316.53 | 49 | 34.31 | 72.21 |
| BCMS-129 | Laurel Run Sample | 6/1/2002 | 6/1/2002 | 50.00 | 6.93 | 1 | 1 | 0.10 | 1 | 0.02 | 1 | 0.07 | 1 | 335.00 | 1 | 1.00 | 67.24 |
| BCMS-207 | Blacklick Creek | 6/1/2002 | 6/1/2002 | | 4.56 | 1 | 1 | 0.58 | 1 | 5.22 | 1 | 0.72 | 1 | 282.00 | 1 | 15.00 | 60.70 |
| BCMS-180 | Un-named Trib. To Blacklick Creek | 6/1/2002 | 6/1/2002 | 10.00 | 3.78 | 1 | 1 | 3.47 | 1 | 0.07 | 1 | 6.40 | 1 | 243.00 | 1 | 29.60 | 56.51 |
| BCMS-183 | Laurel Run | 6/1/2002 | 5/13/2004 | 1879.84 | 5.95 | 13 | 13 | 0.57 | 13 | 6.67 | 13 | 1.80 | 13 | 257.92 | 13 | 12.47 | 55.88 |
| BCMS-193 | Blacklick Creek | 6/1/2002 | 6/1/2002 | | 3.17 | 1 | 1 | 5.06 | 1 | 15.10 | 1 | 0.49 | 1 | 187.00 | 1 | 61.00 | 53.73 |
| BCMS-145 | Un-named trib. To Brush Creek | 6/1/2002 | 6/1/2002 | | 6.52 | 1 | 1 | 0.13 | 1 | 0.30 | 1 | 0.38 | 1 | 249.00 | 1 | 1.00 | 50.16 |
| BCMS-144 | Un-named trib. To Brush Creek | 6/1/2002 | 6/1/2002 | | 6.96 | 1 | 1 | 0.10 | 1 | 0.14 | 1 | 0.13 | 1 | 234.00 | 1 | 1.00 | 47.07 |
| BCMS-182 | Un-named Trib. To Blacklick Creek | 6/1/2002 | 6/1/2002 | 1795.00 | 4.22 | 1 | 1 | 1.79 | 1 | 0.07 | 1 | 1.64 | 1 | 210.00 | 1 | 16.00 | 45.90 |
| BCMS-220 | Refuse pile discharge at Hesbon | 6/27/2003 | 4/16/2004 | 76601.16 | 3.93 | 9 | 9 | 3.76 | 9 | 9.11 | 9 | 0.59 | 9 | 149.73 | 9 | 47.82 | 42.20 |
| BCMS-166 | Laurel Run | 6/1/2002 | 6/1/2002 | 5.00 | 6.14 | 1 | 1 | 1.73 | 1 | 5.12 | 1 | 1.68 | 1 | 192.00 | 1 | 8.40 | 41.79 |
| BCMS-232 | Blacklick Creek | 10/18/1994 | 5/10/1996 | | 5.30 | 11 | 10 | 1.69 | 11 | 4.26 | 11 | 0.50 | 11 | 184.44 | 11 | 17.05 | 41.59 |
| BCMS-138 | Brush Creek | 6/1/2002 | 6/1/2002 | | 6.22 | 1 | 1 | 0.00 | 1 | 0.00 | 1 | 0.00 | 1 | 204.20 | 1 | 1.00 | 41.04 |
| BCMS-131 | Laurel Run Sample | 6/1/2002 | 6/1/2002 | 15.00 | 6.81 | 1 | 1 | 0.10 | 1 | 0.03 | 1 | 0.02 | 1 | 200.00 | 1 | 1.00 | 40.23 |
| BCMS-196 | Laurel Run | 6/1/2002 | 5/13/2004 | 2152.15 | 6.69 | 13 | 13 | 0.64 | 13 | 0.39 | 13 | 0.33 | 13 | 193.92 | 13 | 5.25 | 40.11 |
| BCMS-206 | Blacklick Creek | 6/1/2002 | 5/14/2004 | 46172.90 | 5.32 | 13 | 13 | 3.68 | 13 | 11.18 | 13 | 0.62 | 13 | 169.43 | 13 | 14.33 | 39.85 |
| BCMS-158 | Un-named trib. To Brush Creek | 6/1/2002 | 6/1/2002 | | 6.30 | 1 | 1 | 0.23 | 1 | 0.19 | 1 | 0.99 | 1 | 195.00 | 1 | 1.00 | 39.48 |
| BCMS-204 | Blacklick Creek | 6/1/2002 | 5/14/2004 | 71824.97 | 5.64 | 13 | 13 | 2.33 | 13 | 6.73 | 13 | 0.46 | 13 | 174.96 | 13 | 10.95 | 39.09 |
| BCMS-149 | Brush Creek | 6/1/2002 | 6/1/2002 | | 6.86 | 1 | 1 | 0.00 | 1 | 0.00 | 1 | 0.00 | 1 | 192.10 | 1 | 1.00 | 38.62 |
| BCMS-130 | Laurel Run Sample | 6/1/2002 | 6/1/2002 | 5.00 | 6.97 | 1 | 1 | 0.10 | 1 | 0.08 | 1 | 0.04 | 1 | 173.00 | 1 | 1.00 | 34.84 |
| BCMS-199 | Laurel Run | 6/1/2002 | 6/1/2002 | 100.00 | 4.15 | 1 | 1 | 1.72 | 1 | 2.24 | 1 | 1.55 | 1 | 152.00 | 1 | 13.20 | 34.14 |
| BCMS-170 | Ramsey Run Sample | 6/1/2002 | 6/1/2002 | 799.00 | 6.93 | 1 | 1 | 0.10 | 1 | 0.41 | 1 | 0.93 | 1 | 167.00 | 1 | 1.00 | 33.89 |
| BCMS-225 | Blacklick Creek above Oneida Mine | 6/26/2003 | 5/13/2004 | 69890.73 | 4.57 | 10 | 10 | 2.13 | 10 | 5.07 | 10 | 0.60 | 10 | 137.46 | 10 | 23.51 | 33.75 |
| BCMS-184 | Un-named Trib. To Blacklick Creek | 6/1/2002 | 6/1/2002 | 2.00 | 5.74 | 1 | 1 | 0.10 | 1 | 49.90 | 1 | 2.29 | 1 | 110.00 | 1 | 3.20 | 33.10 |
| BCMS-215 | Blacklick Creek above Rummel Run | 6/26/2003 | 5/14/2004 | 71403.61 | 5.79 | 12 | 12 | 1.59 | 12 | 6.46 | 12 | 0.34 | 12 | 144.26 | 12 | 12.78 | 33.08 |

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| Location ID | Name | Beginning Sample Date | Ending Sample Date | Flow | Average pH | Number of pH Samples | Number of Al Samples | Average Al | Number of Iron Samples | Average Iron | Number of Mn Samples | Average Mn | Number of Sulfate Samples | Average Sulfate | Number of Acidity Samples | Average Acidity | Total Average |
|-------------|---|-----------------------|--------------------|----------|------------|----------------------|----------------------|------------|------------------------|--------------|----------------------|------------|---------------------------|-----------------|---------------------------|-----------------|---------------|
| BCMS-223 | Blacklick Creek at Bells Mills | 6/27/2003 | 5/13/2004 | 76779.00 | 4.75 | 12 | 12 | 1.95 | 12 | 5.24 | 12 | 0.55 | 12 | 134.39 | 12 | 21.83 | 32.79 |
| BCMS-209 | Blacklick Creek | 6/1/2002 | 5/13/2004 | 64904.78 | 4.87 | 12 | 12 | 1.74 | 12 | 4.90 | 12 | 0.50 | 12 | 138.97 | 12 | 15.17 | 32.26 |
| BCMS-168 | Laurel Run | 6/1/2002 | 6/1/2002 | 3860.00 | 4.13 | 1 | 1 | 1.06 | 1 | 0.39 | 1 | 1.19 | 1 | 146.00 | 1 | 9.20 | 31.57 |
| BCMS-100 | Laurel Run, downstream | 9/6/1984 | 9/12/1996 | 13.47 | 4.91 | 21 | 2 | 0.60 | 21 | 0.94 | 21 | 1.15 | 21 | 116.72 | 20 | 19.89 | 27.86 |
| BCMS-167 | Un-named Trib. To Laurel Run | 6/1/2002 | 6/1/2002 | 875.00 | 7.06 | 1 | 1 | 1.24 | 1 | 0.57 | 1 | 0.74 | 1 | 134.00 | 1 | 1.00 | 27.51 |
| BCMS-198 | Laurel Run | 6/1/2002 | 6/1/2002 | 100.00 | 4.62 | 1 | 1 | 0.94 | 1 | 0.08 | 1 | 0.80 | 1 | 114.00 | 1 | 7.60 | 24.68 |
| BCMS-201 | Laurel Run | 6/1/2002 | 6/1/2002 | 1500.00 | 5.31 | 1 | 1 | 0.99 | 1 | 2.39 | 1 | 0.72 | 1 | 104.00 | 1 | 9.20 | 23.46 |
| BCMS-237 | NB Blacklick Creek at South Branch | 6/1/2002 | 5/14/2004 | 67543.46 | 6.94 | 13 | 13 | 0.89 | 13 | 2.44 | 13 | 0.20 | 13 | 109.12 | 13 | 4.39 | 23.41 |
| BCMS-197 | Laurel Run | 6/1/2002 | 6/1/2002 | 20.00 | 4.91 | 1 | 1 | 0.44 | 1 | 0.75 | 1 | 0.09 | 1 | 100.00 | 1 | 6.80 | 21.62 |
| BCMS-200 | Laurel Run | 6/1/2002 | 6/1/2002 | 50.00 | 4.15 | 1 | 1 | 1.54 | 1 | 0.09 | 1 | 1.02 | 1 | 86.00 | 1 | 12.40 | 20.21 |
| BCMS-155 | Un-named trib. To Brush Creek | 6/1/2002 | 6/1/2002 | | 7.81 | 1 | 1 | 0.42 | 1 | 0.26 | 1 | 0.02 | 1 | 88.00 | 1 | 1.00 | 17.94 |
| BCMS-188 | Laurel Run Sample | 6/1/2002 | 6/1/2002 | 12.00 | 4.78 | 1 | 1 | 0.67 | 1 | 0.74 | 1 | 0.68 | 1 | 80.00 | 1 | 6.00 | 17.62 |
| BCMS-221 | Rummel Run at the mouth | 6/26/2003 | 5/14/2004 | 5835.04 | 4.51 | 11 | 11 | 1.62 | 11 | 0.32 | 11 | 1.11 | 11 | 60.95 | 11 | 21.91 | 17.18 |
| BCMS-226 | Aulds Run above Oneida | 6/26/2003 | 5/13/2004 | 2092.12 | 6.76 | 11 | 11 | 0.50 | 11 | 0.91 | 11 | 0.19 | 11 | 78.85 | 11 | 4.09 | 16.91 |
| BCMS-159 | Un-named trib. To Brush Creek | 6/1/2002 | 6/1/2002 | | 6.40 | 1 | 1 | 0.00 | 1 | 0.00 | 1 | 0.00 | 1 | 76.00 | 1 | 1.00 | 15.40 |
| BCMS-140 | Brush Creek | 6/1/2002 | 6/1/2002 | | 6.02 | 1 | 1 | 0.00 | 1 | 0.00 | 1 | 0.00 | 1 | 73.60 | 1 | 1.00 | 14.92 |
| BCMS-139 | Brush Creek | 6/1/2002 | 6/1/2002 | | 6.46 | 1 | 1 | 0.00 | 1 | 0.00 | 1 | 0.00 | 1 | 69.80 | 1 | 3.60 | 14.68 |
| BCMS-189 | Laurel Run Sample | 6/1/2002 | 6/1/2002 | | 5.88 | 1 | 1 | 0.27 | 1 | 0.68 | 1 | 0.21 | 1 | 47.00 | 1 | 3.60 | 10.35 |
| BCMS-231 | Brush Creek | 10/18/1994 | 11/17/1994 | | 6.71 | 2 | 2 | 0.19 | 2 | 0.15 | 2 | 0.04 | 2 | 43.25 | 2 | 2.20 | 9.17 |
| BCMS-191 | Blacklick Creek | 6/1/2002 | 6/1/2002 | | 6.57 | 1 | 1 | 0.23 | 1 | 0.11 | 1 | 0.04 | 1 | 43.50 | 1 | 1.00 | 8.98 |
| BCMS-195 | Blacklick Creek | 6/1/2002 | 6/1/2002 | | 6.44 | 1 | 1 | 0.10 | 1 | 0.12 | 1 | 0.02 | 1 | 37.60 | 1 | 1.00 | 7.77 |
| BCMS-122 | Blacklick Creek | 6/1/2002 | 6/1/2002 | | 6.70 | 1 | 1 | 0.10 | 1 | 0.55 | 1 | 0.53 | 1 | 33.50 | 1 | 1.00 | 7.14 |
| BCMS-152 | Brush Creek | 6/1/2002 | 6/1/2002 | | 7.18 | 1 | 1 | 0.00 | 1 | 0.00 | 1 | 0.00 | 1 | 31.30 | 1 | 1.00 | 6.46 |
| BCMS-141 | Brush Creek | 6/1/2002 | 6/1/2002 | | 6.52 | 1 | 1 | 0.00 | 1 | 0.00 | 1 | 0.00 | 1 | 27.40 | 1 | 1.00 | 5.68 |
| BCMS-136 | Brush Creek | 6/1/2002 | 6/1/2002 | | 5.87 | 1 | 1 | 0.00 | 1 | 0.00 | 1 | 0.00 | 1 | 15.40 | 1 | 12.40 | 5.56 |
| BCMS-142 | Brush Creek | 6/1/2002 | 6/1/2002 | | 6.27 | 1 | 1 | 0.00 | 1 | 0.00 | 1 | 0.00 | 1 | 22.60 | 1 | 1.20 | 4.76 |
| BCMS-151 | Brush Creek | 6/1/2002 | 6/1/2002 | | 6.22 | 1 | 1 | 0.00 | 1 | 0.00 | 1 | 0.00 | 1 | 21.20 | 1 | 1.00 | 4.44 |
| BCMS-137 | Brush Creek | 6/1/2002 | 6/1/2002 | | 6.26 | 1 | 1 | 0.00 | 1 | 0.00 | 1 | 0.00 | 1 | 20.20 | 1 | 1.00 | 4.24 |
| BCMS-135 | Brush Creek | 6/1/2002 | 6/1/2002 | | 6.33 | 1 | 1 | 0.00 | 1 | 0.00 | 1 | 0.00 | 1 | 20.10 | 1 | 1.00 | 4.22 |
| BCMS-212 | Brush Creek | 11/4/1986 | 6/1/2002 | 6289.92 | 6.50 | 6 | 6 | 0.10 | 6 | 0.18 | 6 | 0.04 | 2 | 19.95 | 3 | 0.37 | 4.13 |
| BCMS-249 | Laurel Run;upstream of abandoned mine dis. 50-7 | 5/9/2000 | 10/15/2001 | 51.50 | 82.80 | 7 | 7 | 0.12 | 7 | 0.14 | 7 | 0.16 | 7 | 17.69 | 7 | 1.10 | 3.84 |

Table 11
Blacklick Creek Main Stem
Prioritized Sites and General Recommendations

| Assessed Rank | Loading Rank | Water Quality Rank | Site Designation/Name | Subwatershed | Principal Problem's | Range of Flows (gpm) | Source Reduction | Aerobic Wetlands | Anaerobic Wetlands | Oxic LS Channel | Anoxic LS Trench | Vertical Flow Reactors | Active Treatment | Comments |
|---------------|--------------|--------------------|---|-----------------|--|----------------------|------------------|------------------|--------------------|-----------------|------------------|------------------------|------------------|--|
| 1 | 1 | 3 | BCMS-214 Virginian No.14 BCWA Assessment IUP - MB17 | Aulds Run | High flow; High AL (31mg/l), FE (247 mg/l), SO4 and Acidity; Moderate MN: Very low pH <2.80. | 115-2384 | | | | | | X | X | pH and Al values preclude use of wetlands or oxic/anoxic LS systems; insufficient information to evaluate source reduction; high flows may require use of multiple cells or bypassing of portions of the flow |
| 2 | 4 | 1 | BCMS-112 Deep Mine Discharge 32880106 MD-33-14 | Blacklick Creek | Moderate flow; Very high FE (406 mg/l), SO4, Acidity; High AL (25 mg/l); Moderate MN. Very low pH < 2.70. | 4-1913 | | | | | | X | X | pH and Al values preclude use of wetlands or oxic/anoxic LS systems, insufficient information to evaluate source reduction; high peak flows may require diversion of off-site water. Only ons Al value in th current record. Additional monitoring of Al will be required. |
| 3 | 6 | 2 | BCMS-111 Deep Mine Discharge 32880106 MD-33-11 | Blacklick Creek | Moderate flow; Very high FE (467 mg/l), SO4, Acidity; Moderate MN, No AL results available. Very low pH < 2.80 | 25-563 | | | | | | X | X | Although there is no Al data available for this site, it is assumed that the discharge will require vertical drain, SRB or active treatment based on the pH and sulfate levels; insufficient information to evaluate source reduction |
| 4 | 2 | 11 | BCMS-013 Artesian Shaft BCWA Assessment IUP - MB4 | Ramsey Run | Very high flow; High AL (19 mg/l), FE (219 mg/l); Moderate SO4 , Acidity; Low MN: Very low pH < 2.90. | 958-4058 | | | | | | X | X | pH and Al values preclude use of wetlands or oxic/anoxic LS systems, insufficient information to evaluate source reduction; high flows may require use of multiple cells or bypassing of portions of the flow |
| 5 | 3 | 8 | BCMS-001 Bells Mill Mine BCWA Assessment IUP - MB25 | Blacklick Creek | High flow; High AL (28 mg/l), FE (125 mg/l); Moderate SO4, Acidity; Low MN. Very low pH < 2.80 | 68-2250 | | | | | | X | X | pH and Al values preclude use of wetlands or oxic/anoxic LS systems, insufficient information to evaluate source reduction; high flows may require use of multiple cells or bypassing of portions of the flow |
| 6 | 7 | 4 | BCMS-066 Strip Mine BCWA Assessment IUP - MB12 | Blacklick Creek | Moderate flow; Very high AL (54 mg/l); High FE (150 mg/l), SO4 and Acidity; Moderate to low MN; Very low pH < 2.60 | 47-477 | | | | | | X | X | pH and Al values preclude use of wetlands or oxic/anoxic LS systems, insufficient information to evaluate source reduction; high peak flows may require diversion of off-site water; discharge has lowest pH in watershed and second highest Al concentration. |
| 7 | 9 | 9 | BCMS-252 Deep Mine entry along Rte. 56 BCWA Assessment IUP - MB10 | Blacklick Creek | Moderate flow; High AL (21 mg/l), FE (102 mg/l); Moderate MN, SO4 and Acidity. Very low pH < 2.80. | 42-350 | | | | | | X | X | pH and Al values preclude use of wetlands or oxic/anoxic LS systems, insufficient information to evaluate source reduction; |

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| Assessed Rank | Loading Rank | Water Quality Rank | Site Designation/Name | Subwatershed | Principal Problem's | Range of Flows (gpm) | Source Reduction | Aerobic Wetlands | Anaerobic Wetlands | Oxic LS Channel | Anoxic LS Trench | Vertical Flow Reactors | Active Treatment | Comments |
|---------------|--------------|--------------------|--|-----------------|--|----------------------|------------------|------------------|--------------------|-----------------|------------------|------------------------|------------------|---|
| 8 | 5 | 22 | BCMS-194 Discharge Sample BCWA Assessment IUP - MB13 | Blacklick Creek | Very high flow; Moderate AL (12 mg/l), FE (39 mg/l), Moderate SO4 and Acidity; Low MN; Low pH < 3.30. | 492-3385 | | | | | | X | X | pH and Al values preclude use of wetlands or oxic/anoxic LS systems, insufficient information to evaluate source reduction; high flows may require use of multiple cells or bypassing of portions of the flow |
| 9 | 10 | 17 | BCMS-217 Discharge from refuse piles BCWA Assessment IUP - MB14 | Blacklick Creek | Moderate flow; High AL (24 mg/l); Moderate to high FE (79 mg/l); Moderate MN, SO4, Acidity; Very low pH < 2.90 | 54-445 | | | | | | X | X | pH and Al values preclude use of wetlands or oxic/anoxic LS systems, insufficient information to evaluate source reduction; |
| 15 | 8 | 36 | BCMS-216 Oneida - Deep mine discharge BCWA Assessment IUP - MB11 | Blacklick Creek | Very high flow; Low AL (2.2 mg/l); Very low FE (7.2 mg/l); Low MN, SO4; Moderate Acidity; Moderate pH < 4.30 | 213-4558 | | | | X | | X | X | Next highest loading in the watershed based on this assessment. Extremely high avg. flow (1909 gpm) may preclude passive treatment or may require use of multiple cells or bypassing of portions of the flow concentrations not as bad as some other sites - loadings rank high due to high flows. Low concentrations and high flow make this a tough site to recommend treatment |