

## EXHIBIT M

Commonwealth of Pennsylvania  
Department of Mines and Mineral Industries

### **MD Pollution Abatement Measures for the Beech Creek Watershed**

#### **DESIGN AVERAGE MD ACID QUANTITIES IN ORDER OF MAGNITUDE**

<u>Rank</u>	<u>Discharge Point (1)</u>	<u>Acid lbs/day</u>	<u>Cumulative Acid lbs/day</u>	<u>Percent of Total Acid</u>
1	129	8,290.0	8,290.0	16.9
2	105	7,110.0	15,400.0	31.4
3	112	7,110.0	22,510.0	45.8
4	11	4,120.0	26,630.0	54.2
5	93	1,600.0	28,230.0	
6	113	1,560.0	29,790.0	
7	180	1,450.0	31,240.0	
8	111	1,260.0	32,500.0	
9	158	1,140.0	33,640.0	
10	126	1,060.0	34,700.0	
11	46	1,040.0	35,740.0	
12	122	904.0	36,644.0	74.6
13	151	868.0	37,512.0	76.4
14	174	667.0	38,179.0	
15	60	567.0	38,746.0	
16	131	543.0	39,289.0	
17	152	538.0	39,827.0	
18	127	457.0	40,284.0	
19	5	407.0	40,691.0	
20	86	351.0	41,042.0	
21	67	300.0	41,342.0	
22	137	297.0	41,639.0	
23	139	296.0	41,935.0	
24	144	273.0	42,208.0	
25	97	263.0	42,471.0	
26	120	262.0	42,733.0	
27	79	258.0	42,991.0	
28	135	242.0	43,233.0	
29	154	242.0	43,475.0	
30	125	235.0	43,710.0	
31	99	218.0	43,928.0	
32	169	210.0	44,138.0	89.9
33	166	207.0	44,345.0	90.3
34	150	201.0	44,546.0	
35	78	194.0	44,740.0	
36	9	181.0	44,921.0	
37	146	172.0	45,093.0	

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<u>Rank</u>	<u>Discharge Point (1)</u>	<u>Acid lbs/day</u>	<u>Cumulative Acid lbs/day</u>	<u>Percent of Total Acid</u>
38	182	157.0	45,250.0	
39	140	156.0	45,406.0	
40	157	156.0	45,562.0	
41	23	154.0	45,716.0	
42	83	146.0	45,862.0	
43	133	117.0	45,979.0	
44	115	110.0	46,089.0	
45	147	106.0	46,195.0	
46	119	104.0	46,299.0	
47	164	103.0	46,402.0	94.5
48	124	95.3	46,497.3	94.7
49	47	77.6	46,574.9	94.9
50	85	76.9	46,651.8	95.0
51	159	68.0	46,719.8	
52	149	67.9	46,787.7	
53	167	66.8	46,854.5	
54	128	66.7	46,921.2	
55	130	64.8	46,986.0	
56	43	62.2	47,048.2	
57	173	60.8	47,109.0	
58	134	60.6	47,169.6	
59	15	60.4	47,230.0	
60	136	60.3	47,290.3	
61	108	54.9	47,345.2	
62	8	53.7	47,398.9	
63	171	53.4	47,452.3	
64	178	51.8	47,504.1	
65	168	50.8	47,554.9	
66	181	50.4	47,605.3	
67	69	48.5	47,653.8	
68	81	48.5	47,702.3	
69	107	48.5	47,750.8	
70	143	45.5	47,796.3	
71	80	44.1	47,840.4	
72	155	43.7	47,884.1	
73	41	41.2	47,925.3	
74	26	39.4	47,964.7	
75	121	38.7	48,003.4	
76	118	37.8	48,041.2	
77	94	37.1	48,078.3	
78	35	36.2	48,114.5	
79	179	36.2	48,150.7	
80	138	34.3	48,185.0	
81	117	34.0	48,219.0	
82	87	32.4	48,251.4	
83	51	31.9	48,283.3	
84	53	31.7	48,315.0	
85	110	30.9	48,345.9	
86	142	29.7	48,375.6	
87	145	28.2	48,403.8	
88	13	27.2	48,431.0	

**Exhibit M (Continued)**

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<u>Rank</u>	<u>Discharge Point (1)</u>	<u>Acid lbs/day</u>	<u>Cumulative Acid lbs/day</u>	<u>Percent of Total Acid</u>
89	21	27.1	48,458.1	
90	4	26.6	48,484.7	
91	123	26.5	48,511.2	
92	89	25.3	48,536.5	
93	48	24.6	48,561.1	
94	95	23.3	48,584.4	
95	34	21.8	48,606.2	99.0
96	163	20.7	48,626.9	
97	160	20.3	48,647.2	
98	72	19.4	48,666.6	
99	76	19.4	48,686.0	
100	114	19.4	48,705.4	
101	183	18.2	48,723.6	
102	148	18.0	48,741.6	
103	65	17.8	48,759.4	
104	1	16.9	48,776.3	
105	162	16.8	48,793.1	
106	170	16.1	48,809.2	
107	63	15.4	48,824.6	
108	177	15.2	48,839.8	
109	19	14.6	48,854.4	
110	61	14.6	48,869.0	
111	25	14.4	48,883.4	
112	104	13.3	48,896.7	
113	184	11.3	48,908.0	
114	12	10.7	48,918.7	
115	20	9.4	48,928.1	
116	16	8.8	48,936.9	
117	62	8.8	48,945.7	
118	116	8.8	48,954.5	
119	42	8.2	48,962.7	
120	77	8.0	48,970.7	
121	64	7.3	48,978.0	
122	96	7.2	48,985.2	
123	141	6.5	48,991.7	
124	45	6.1	48,997.8	
125	103	6.0	49,003.8	
126	82	5.8	49,009.6	
127	132	5.4	49,015.0	
128	58	5.3	49,020.3	
129	57	5.2	49,025.5	
130	84	5.1	49,030.6	
131	37	4.8	49,035.4	
132	39	4.8	49,040.2	
133	6	4.5	49,044.7	
134	40	3.9	49,048.6	
135	88	3.9	49,052.5	
136	175	3.6	49,056.1	
137	75	3.1	49,059.2	
138	153	3.1	49,062.3	
139	91	3.0	49,065.3	

Exhibit M (Continued)

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<u>Rank</u>	<u>Discharge Point (1)</u>	<u>Acid lbs/day</u>	<u>Cumulative Acid lbs/day</u>	<u>Percent of Total Acid</u>
140	44	2.9	49,068.2	
141	102	2.9	49,071.1	
142	66	2.8	49,073.9	
143	49	2.4	49,076.3	
144	176	2.4	49,078.7	
145	7	2.2	49,080.9	
146	68	2.0	49,082.9	
147	100	1.9	49,084.8	
148	50	1.8	49,086.6	
149	59	1.6	49,088.2	
150	165	1.4	49,089.6	
151	14	1.3	49,090.9	
152	106	1.3	49,092.2	
153	52	1.2	49,093.4	
154	55	1.1	49,094.5	
155	90	1.1	49,095.6	
156	22	0.9	49,096.5	
157	109	0.9	49,097.4	
158	56	0.7	49,098.1	
159	28	0.5	49,098.6	
160	36	0.5	49,099.1	
161	38	0.5	49,099.6	
162	172	0.4	49,100.0	
163	54	0.3	49,100.3	
164	70	0.3	49,100.6	
165	101	0.2	49,100.8	
166	17	0.1	49,100.9	
167	71	0.1	49,101.0	
168	2	0.0	49,101.0	
169	3	0.0	49,101.0	
170	10	0.0	49,101.0	
171	18	0.0	49,101.0	
172	24	0.0	49,101.0	
173	27	0.0	49,101.0	
174	29	0.0	49,101.0	
175	30	0.0	49,101.0	
176	31	0.0	49,101.0	
177	32	0.0	49,101.0	
178	33	0.0	49,101.0	
179	73	0.0	49,101.0	
180	74	0.0	49,101.0	
181	92	0.0	49,101.0	
182	98	0.0	49,101.0	
183	156	0.0	49,101.0	
184	161	0.0	49,101.0	100.0

(1) See Plates III-A and III-B for location of MD Discharge Points.