

**EXHIBIT J**

Commonwealth of Pennsylvania  
Department of Mines and Mineral Industries

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

**DESIGN MD VOLUMES, MAJOR CONSTITUENTS AND CHARACTERISTICS  
AT EACH DISCHARGE POINT**

Dis-charge Point(1)	Design Average						Design Wet Weather						Design Maximum					
	Avg. Daily Rate (gpm)	pH Range	Total Iron		Acid (as CaCO <sub>3</sub> )		Avg. Daily Rate (gpm)	pH Range	Total Iron		Acid (as CaCO <sub>3</sub> )		Avg. Daily Rate (gpm)	pH Range	Total Iron		Acid (as CaCO <sub>3</sub> )	
			mg/l	lbs/day	mg/l	lbs/day			mg/l	lbs/day	mg/l	lbs/day			mg/l	lbs/day	mg/l	lbs/day
1	9.4	3.5-4.2	0.2	0.02	150	16.9	18.2	3.7-4.5	0.2	0.04	140	30.6	380	4.0-5.0	0.2	0.91	100	456.0
2	0.0	—	—	0.00	—	0.0	0.0	—	—	0.00	—	0.0	69	3.5-4.5	1.0	0.83	150	124.0
3	0.0	—	—	0.00	—	0.0	0.0	—	—	0.00	—	0.0	103	3.0-4.0	6.0	7.42	300	371.0
4	7.4	3.3-4.0	2.0	0.18	300	26.6	10.6	3.7-4.5	0.6	0.08	265	33.7	221	4.0-5.0	0.3	0.80	150	398.0
5	60.6	2.7-3.2	10.0	7.27	560	407.0	93.4	2.8-3.8	13.8	15.50	435	488.0	1,950	3.0-4.0	7.0	164.00	350	8,190.0
6	5.4	3.5-4.5	5.5	0.36	70	4.5	9.8	3.9-5.4	4.2	0.49	75	8.8	205	4.5-5.8	3.0	7.38	60	148.0
7	1.4	2.7-3.2	21.0	0.35	130	2.2	2.5	2.7-3.3	26.4	0.79	135	4.1	53	3.0-4.0	15.0	9.54	100	63.6
8	12.1	3.0-3.6	3.6	0.52	370	53.7	19.8	3.1-3.8	2.8	0.67	340	80.8	413	3.5-4.5	2.0	9.91	250	1,230.0
9	21.6	2.6-3.2	22.0	5.70	700	181.0	38.3	2.7-3.2	13.5	6.20	550	253.0	800	3.0-4.0	10.0	96.00	450	4,320.0
10	0.0	—	—	0.00	—	0.0	0.0	—	—	0.00	—	0.0	122	4.5-6.0	0.6	0.88	40	58.6
11	175.0	2.5-3.0	265.0	557.00	1,960	4,120.0	317.0	2.5-3.0	310.0	1,180.00	2,030	7,720.0	6,610	2.5-3.0	300.0	23,800.00	2,000	159,000.0
12	4.8	2.8-3.5	27.0	1.56	185	10.7	7.9	3.0-3.6	32.1	3.04	175	16.6	165	3.0-4.0	20.0	39.60	150	297.0
13	16.2	3.0-3.7	2.5	0.49	140	27.2	28.5	3.0-3.8	3.2	1.10	160	54.7	595	3.5-4.5	2.0	14.30	120	857.0
14	0.4	3.5-4.0	1.0	0.00	270	1.3	0.6	3.5-4.0	1.1	0.01	280	2.0	13	3.5-4.5	1.0	0.16	250	39.0
15	7.4	2.5-3.0	55.0	4.88	680	60.4	14.1	2.5-3.0	80.9	13.70	820	139.0	294	2.5-3.5	75.0	265.00	750	2,650.0
16	3.4	2.6-3.5	25.0	1.02	215	8.8	5.5	2.6-3.5	17.5	1.16	210	13.9	116	3.0-4.0	10.0	13.90	175	244.0
17	0.3	4.2-4.8	0.3	0.00	40	0.1	0.5	4.2-5.0	0.1	0.00	45	0.3	10	4.5-5.5	0.1	0.01	30	3.6
18	6.1	6.7-8.2	15.0	1.10	0	0.0	10.0	6.0-7.5	18.4	2.21	0	0.0	208	6.0-7.5	12.0	30.00	10	25.0
19	8.1	2.7-3.5	2.5	0.24	150	14.6	14.7	2.7-3.5	2.3	0.41	130	22.9	307	3.0-4.0	2.0	7.37	90	332.0
20	5.4	2.7-3.2	7.5	0.49	145	9.4	10.0	2.7-3.2	8.0	0.96	135	16.2	208	3.0-4.0	6.0	15.00	100	250.0
21	37.7	3.6-4.2	0.1	0.05	60	27.1	60.2	3.6-4.3	0.1	0.07	60	43.3	1,260	3.8-4.8	0.1	1.51	60	907.0
22	1.3	3.3-3.9	1.5	0.02	60	0.9	1.9	3.3-4.0	0.3	0.01	60	1.4	40	3.5-4.5	0.1	0.05	60	28.8
23	135.0	3.0-3.5	2.0	3.24	95	154.0	245.0	3.0-3.5	1.3	3.82	85	250.0	5,120	3.2-4.2	1.0	61.40	70	4,300.0
24	0.0	—	—	0.00	—	0.0	0.0	—	—	0.00	—	0.0	17	2.5-3.5	100.0	20.40	1,300	265.0
25	1.6	2.9-3.8	7.0	0.13	750	14.4	2.7	2.9-3.8	0.8	0.03	525	17.0	56	3.2-4.2	0.5	0.34	400	269.0
26	3.4	2.8-3.4	13.0	0.53	965	39.4	4.7	2.8-3.4	18.0	1.02	1,000	56.4	99	3.0-4.0	15.0	17.80	900	1,070.0
27	0.0	—	—	0.00	—	0.0	0.0	—	—	0.00	—	0.0	23	5.0-6.0	2.0	0.55	20	5.5
28	1.3	3.5-4.8	0.5	0.01	30	0.5	2.1	3.5-5.0	0.9	0.02	30	0.8	43	4.0-5.5	0.5	0.26	30	15.5
29	2.4	5.9-7.3	5.7	0.16	0	0.0	3.6	6.0-7.0	6.0	0.26	0	0.0	76	6.0-7.5	5.0	4.56	15	13.7
30	0.8	6.3-7.3	2.0	0.00	0	0.0	1.4	6.3-7.0	1.2	0.02	0	0.0	26	6.5-7.5	1.0	0.31	0	0.0
31	0.4	6.0-7.5	0.9	0.00	5	0.0	0.6	6.0-7.0	0.8	0.01	10	0.1	13	6.0-7.5	0.5	0.08	5	0.8
32	3.0	6.5-8.0	1.0	0.04	0	0.0	4.7	6.3-7.2	1.6	0.09	0	0.0	99	6.5-7.5	1.0	1.19	0	0.0
33	108.0	7.0-8.0	0.2	0.26	0	0.0	176.0	6.5-7.8	0.1	0.21	0	0.0	3,670	6.5-7.5	0.1	4.40	0	0.0
34	121.0	6.5-7.5	1.0	1.45	15	21.8	169.0	6.5-7.8	0.4	0.81	20	40.6	3,540	6.5-7.5	0.2	8.50	10	425.0
35	43.1	3.2-3.8	1.5	0.78	70	36.2	68.1	3.2-3.8	1.0	0.82	70	57.2	1,420	3.5-4.5	0.5	8.52	50	852.0
36	2.7	4.0-5.6	1.5	0.05	15	0.5	4.1	4.8-5.8	0.1	0.00	10	0.5	86	5.5-6.5	0.1	0.10	5	5.2
37	4.0	3.0-4.9	40.0	1.92	100	4.8	6.0	2.7-4.5	58.6	4.22	160	11.5	126	3.5-5.0	50.0	75.60	150	227.0

Dis-charge Point(1)	Design Average						Design Wet Weather						Design Maximum					
	Avg. Daily Rate (gpm)	pH Range	Total Iron		Acid (as CaCO <sub>3</sub> )		Avg. Daily Rate (gpm)	pH Range	Total Iron		Acid (as CaCO <sub>3</sub> )		Avg. Daily Rate (gpm)	pH Range	Total Iron		Acid (as CaCO <sub>3</sub> )	
			mg/1	lbs/day	mg/1	lbs/day			mg/1	lbs/day	mg/1	lbs/day			mg/1	lbs/day	mg/1	lbs/day
38	2.7	4.5-6.2	0.4	0.01	15	0.5	4.7	4.3-6.0	0.4	0.03	15	0.8	99	5.0-6.5	0.2	0.24	10	11.9
39	20.2	5.0-6.8	0.1	0.02	20	4.8	33.2	5.0-6.0	0.1	0.04	15	6.0	694	5.5-6.5	0.1	0.83	10	83.3
40	8.1	3.4-4.5	1.2	0.12	40	3.9	14.7	3.4-4.5	0.3	0.05	35	6.2	307	4.0-5.0	0.2	0.74	25	92.1
41	22.9	3.0-3.5	3.0	0.82	150	41.2	34.8	3.0-3.5	3.7	1.55	140	58.5	727	3.2-4.2	2.0	17.50	120	1,050.0
42	22.9	3.9-5.7	20.0	5.50	30	8.2	31.7	4.2-6.0	17.4	6.62	30	11.4	661	4.5-6.0	12.0	95.20	20	159.0
43	47.1	3.5-4.5	0.3	0.17	110	62.2	80.7	3.5-4.5	0.4	0.39	140	136.0	1,680	4.0-5.0	0.2	4.03	120	2,420.0
44	24.2	5.5-7.5	1.0	0.29	10	2.9	45.9	5.2-6.5	0.5	0.28	15	8.3	958	6.0-7.0	0.5	5.75	5	57.5
45	20.2	3.9-6.0	4.0	0.97	25	6.1	30.1	3.9-6.0	4.6	1.66	25	9.0	628	4.5-6.0	2.5	18.80	15	113.0
46	216.0	2.8-3.4	15.0	39.00	400	1,040.0	358.0	2.8-3.4	8.5	36.50	375	1,610.0	7,470	3.0-4.0	7.0	627.00	300	26,900.0
47	53.9	3.0-3.6	10.0	6.47	120	77.6	82.3	3.0-3.6	7.7	7.60	110	109.0	1,720	3.0-4.0	5.0	103.00	100	2,060.0
48	21.6	2.9-3.5	10.0	2.59	95	24.6	31.7	2.9-3.5	16.3	6.20	105	39.9	661	3.0-4.0	10.0	79.30	80	635.0
49	4.0	3.0-3.6	6.0	0.29	50	2.4	7.1	3.2-3.9	5.1	0.43	30	2.6	149	3.5-5.0	3.0	5.36	20	35.8
50	2.7	3.9-5.1	1.0	0.03	55	1.8	3.6	3.9-5.1	0.4	0.02	70	3.0	76	4.5-6.0	0.2	0.18	50	45.6
51	24.2	3.2-4.0	2.0	0.58	110	31.9	41.2	3.3-4.5	2.2	1.09	100	49.4	859	3.5-4.5	2.0	20.60	75	773.0
52	16.2	6.3-7.2	3.0	0.58	6	1.2	30.1	6.3-7.5	1.0	0.36	5	1.8	628	6.5-7.5	0.5	3.77	0	0.0
53	37.7	3.5-4.2	0.5	0.23	70	31.7	61.7	3.5-4.2	0.4	0.30	75	55.5	1,290	3.8-5.0	0.3	4.64	65	1,010.0
54	2.7	6.3-7.2	3.0	0.10	10	0.3	4.0	6.4-7.2	1.8	0.09	0	0.0	83	6.5-7.5	1.1	1.10	0	0.0
55	9.4	6.2-7.2	3.0	0.34	10	1.1	15.8	5.9-7.0	4.6	0.87	5	0.9	330	6.0-7.0	2.5	9.90	0	0.0
56	1.1	3.0-3.4	5.0	0.07	50	0.7	1.6	3.0-3.5	4.7	0.09	45	0.9	33	3.0-4.0	2.5	0.99	20	7.9
57	5.4	3.0-3.5	10.0	0.65	80	5.2	9.5	3.0-3.5	13.1	1.49	90	10.3	198	3.0-4.0	10.0	23.80	60	143.0
58	8.1	3.2-3.8	6.0	0.58	55	5.3	13.1	3.2-3.8	12.6	1.98	65	10.2	274	3.5-4.5	7.0	23.00	40	132.0
59	5.4	3.6-6.4	4.5	0.29	25	1.6	8.7	3.7-6.0	4.3	0.45	30	3.1	182	4.5-6.0	4.0	8.74	15	32.8
60	189.0	2.9-3.9	55.0	125.00	250	567.0	301.0	3.1-3.9	48.4	175.00	220	795.0	6,280	3.2-4.2	35.0	2,640.00	190	14,300.0
61	67.4	4.7-6.2	1.0	0.81	18	14.6	119.0	4.6-5.4	0.5	0.71	20	28.6	2,480	5.0-6.5	0.5	14.90	10	298.0
62	6.7	3.0-4.2	1.5	0.12	110	8.8	12.7	3.0-3.8	0.9	0.14	110	16.8	264	3.2-4.2	0.5	1.58	90	285.0
63	4.0	2.8-3.6	4.0	0.19	320	15.4	8.4	2.8-3.6	6.2	0.62	430	43.3	175	2.8-3.8	4.0	8.40	300	630.0
64	13.5	3.3-3.9	0.1	0.02	45	7.3	24.2	3.3-3.9	0.2	0.06	50	14.5	505	3.5-4.5	0.1	0.61	40	242.0
65	26.9	3.3-4.0	4.0	1.29	55	17.8	53.8	3.3-4.0	5.0	3.23	60	38.7	1,120	3.5-4.5	3.5	47.00	50	672.0
66	6.7	2.8-4.0	0.5	0.04	35	2.8	10.8	2.8-4.0	0.5	0.06	35	4.5	225	3.5-4.5	0.5	1.35	20	54.0
67	47.1	2.5-3.0	32.0	18.10	530	300.0	69.7	2.5-3.0	35.2	29.40	540	452.0	1,450	2.5-3.5	30.0	522.00	500	8,700.0
68	3.4	3.0-4.0	10.0	0.41	50	2.0	6.0	3.0-4.0	1.4	0.10	35	2.5	126	3.5-4.5	1.0	1.51	30	45.4
69	32.3	2.8-3.4	3.5	1.36	125	48.5	52.2	3.0-3.4	4.4	2.76	130	81.4	1,090	3.0-4.0	3.0	39.20	110	1,440.0
70	0.9	3.0-5.0	3.0	0.03	25	0.3	1.6	4.0-5.0	4.6	0.09	15	0.3	33	4.5-6.0	2.0	0.79	5	2.0
71	0.3	3.5-4.2	1.2	0.00	40	0.1	0.3	3.5-4.2	0.4	0.00	50	0.2	7	3.8-4.8	0.5	0.04	20	1.7
72	108.0	4.8-6.4	1.0	1.30	15	19.4	192.0	4.8-6.4	1.7	3.92	10	23.0	4,000	5.0-6.5	1.0	48.00	5	240.0
73	0.0	—	—	0.00	—	0.0	0.0	—	—	0.00	—	0.0	34	5.0-6.5	2.0	0.82	10	4.1
74	0.0	—	—	0.00	—	0.0	0.0	—	—	0.00	—	0.0	86	5.0-6.5	0.6	0.62	10	10.3
75	2.7	3.9-6.1	0.3	0.01	95	3.1	4.7	3.9-5.0	0.3	0.02	110	6.2	99	4.0-5.5	0.3	0.36	100	119.0
76	40.4	4.2-4.8	0.2	0.10	40	19.4	74.4	4.2-4.8	0.1	0.09	35	31.2	1,550	4.5-5.5	0.1	1.86	25	465.0
77	6.7	3.2-3.8	0.2	0.02	100	8.0	12.7	3.3-4.0	0.2	0.03	80	12.2	264	3.5-4.5	0.2	0.63	40	127.0
78	13.5	2.6-3.2	100.0	16.20	1,200	194.0	21.1	2.6-3.4	85.2	21.60	1,010	256.0	439	2.8-3.8	70.0	369.00	900	4,740.0
79	26.9	2.6-3.2	12.0	3.87	800	258.0	47.5	2.6-3.4	9.7	5.53	585	333.0	991	2.8-3.8	7.0	83.20	300	3,570.0
80	2.7	2.4-2.8	125.0	4.05	1,360	44.1	4.7	2.4-2.8	118.0	6.66	1,360	76.7	99	2.5-3.2	110.0	131.00	1,300	1,540.0
81	53.9	3.4-4.0	0.4	0.26	75	48.5	93.9	3.4-4.0	0.2	0.23	70	78.9	1,960	3.5-4.5	0.2	4.70	60	1,410.0
82	12.1	3.4-4.0	1.5	0.22	40	5.8	22.2	3.4-4.0	0.1	0.03	35	9.3	463	3.5-4.5	0.1	0.56	30	167.0
83	33.7	3.0-3.6	2.0	0.81	360	146.0	59.7	3.0-3.6	2.6	1.86	410	294.0	1,250	3.0-4.0	2.0	30.00	350	5,250.0
84	12.1	4.0-5.9	10.0	1.45	35	5.1	21.8	4.0-5.9	0.6	0.16	25	6.5	456	4.5-6.0	0.5	2.74	20	109.0
85	37.7	2.7-3.2	32.0	14.50	170	76.9	69.7	2.7-3.2	38.0	31.80	155	130.0	1,450	2.8-3.8	30.0	522.00	140	2,440.0
86	195.0	2.9-3.4	7.5	17.60	150	351.0	345.0	2.9-3.4	4.5	18.60	105	435.0	7,200	3.0-4.0	3.0	259.00	85	7,340.0

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Dis-charge Point(1)	Avg. Daily Rate (gpm)	pH Range	Total Iron		Acid (as CaCO <sub>3</sub> )		Avg. Daily Rate (gpm)	pH Range	Total Iron		Acid (as CaCO <sub>3</sub> )		Avg. Daily Rate (gpm)	pH Range	Total Iron		Acid (as CaCO <sub>3</sub> )	
			mg/1	lbs/day	mg/1	lbs/day			mg/1	lbs/day	mg/1	lbs/day			mg/1	lbs/day	mg/1	lbs/day
87	21.6	3.0-3.7	8.0	2.07	125	32.4	35.6	3.0-3.7	9.1	3.89	115	49.1	743	3.0-4.0	7.0	62.40	100	892.0
88	5.4	3.2-3.8	1.5	0.10	60	3.9	9.0	3.2-3.8	1.8	0.19	60	6.5	188	3.2-4.2	1.0	2.26	50	113.0
89	16.2	2.7-3.2	6.0	1.17	130	25.3	31.7	2.7-3.2	3.1	1.18	100	38.0	661	2.8-3.8	1.5	11.90	70	555.0
90	0.7	2.8-3.2	9.0	0.08	135	1.1	0.9	2.8-3.2	11.8	0.13	140	1.5	20	2.8-3.8	8.0	1.92	125	30.0
91	0.4	2.7-3.4	13.0	0.06	620	3.0	0.8	2.7-3.4	17.0	0.16	725	7.0	17	2.8-3.8	12.0	2.45	675	138.0
92	0.0	—	—	0.00	—	0.0	0.0	—	—	0.00	—	0.0	1,300	3.0-4.0	35.0	546.00	180	2,810.0
93	741.0	2.8-3.5	45.0	400.00	180	1,600.0	1,290.0	2.8-3.5	41.8	647.00	190	2,940.0	24,600	3.0-4.0	35.0	10,300.00	180	53,100.0
94	26.9	3.0-3.9	0.8	0.26	115	37.1	50.3	3.0-3.9	0.8	.48	95	57.3	1,050	3.2-4.2	0.5	6.30	75	945.0
95	16.2	3.0-3.6	6.0	1.17	120	23.3	26.4	3.0-3.6	5.4	1.71	115	36.4	552	3.0-4.0	4.0	26.50	100	662.0
96	1.6	3.0-3.7	2.5	0.05	375	7.2	2.4	3.0-4.0	1.7	0.05	210	6.0	50	3.5-4.5	1.5	0.90	150	90.0
97	87.6	2.8-3.4	7.0	7.36	250	263.0	169.0	3.0-4.5	6.2	12.60	245	497.0	3,540	3.2-4.8	5.0	212.00	230	9,770.0
98	0.0	—	—	0.00	—	0.0	0.0	—	—	0.00	—	0.0	40	3.5-5.0	5.0	2.40	100	48.0
99	20.2	3.5-4.5	1.5	0.36	900	218.0	32.5	3.5-4.5	0.9	0.35	625	244.0	677	4.0-5.5	0.5	4.06	300	2,440.0
100	16.2	5.8-6.8	2.5	0.49	10	1.9	26.4	5.8-6.8	2.0	0.63	10	3.2	552	5.8-6.8	1.0	6.62	10	66.2
101	0.7	4.5-6.0	35.0	0.29	25	0.2	0.9	5.0-6.2	29.1	0.31	20	0.2	20	5.0-6.5	25.0	6.00	10	2.4
102	0.5	3.8-4.6	0.1	0.00	475	2.9	0.8	4.0-5.0	0.1	0.00	480	4.6	17	4.0-5.5	0.1	0.02	450	91.8
103	0.4	3.4-4.6	0.3	0.00	1,260	6.0	0.6	3.4-4.6	0.1	0.00	1,320	9.5	13	3.4-4.6	0.1	0.02	1,200	187.0
104	74.1	4.7-6.3	0.5	0.44	15	13.3	133.0	4.7-6.3	0.1	0.16	20	31.9	2,780	5.0-6.5	0.1	3.34	10	334.0
105	741.0	2.9-3.6	27.5	245.00	800	7,110.0	1,540.0	2.9-3.6	29.1	538.00	1,050	19,400.0	32,200	3.0-4.0	25.0	9,660.00	600	232,000.0
106	2.7	3.5-4.3	2.2	0.07	40	1.3	4.7	3.6-4.4	2.2	0.12	40	2.3	99	3.8-4.8	2.0	2.38	30	35.6
107	80.8	3.6-4.2	1.5	14.50	50	48.5	151.0	3.6-4.4	1.8	3.26	40	72.5	3,150	4.0-5.0	1.6	37.80	20	756.0
108	26.9	3.0-3.6	7.0	2.26	170	54.9	50.7	3.0-3.6	5.6	3.41	185	113.0	1,060	3.2-4.2	4.5	57.20	150	1,910.0
109	1.3	3.4-4.0	0.3	0.00	60	0.9	3.2	3.4-4.0	0.2	0.01	65	2.5	66	3.5-4.5	0.2	0.16	55	43.6
110	1.6	2.5-3.2	145.0	2.78	1,610	30.9	3.2	2.5-3.5	114.0	4.38	1,610	61.8	66	2.5-3.5	110.0	87.10	1,500	1,190.0
111	128.0	2.7-3.2	26.0	39.90	820	1,260.0	211.0	2.7-3.2	23.5	59.50	755	1,910.0	4,390	2.7-3.5	20.0	1,050.00	730	38,500.0
112	741.0	2.7-3.2	35.0	311.00	800	7,110.0	1,090.0	2.7-3.2	25.6	335.00	690	9,030.0	22,700	2.7-3.5	20.0	5,450.00	600	163,000.0
113	236.0	2.9-3.6	7.5	21.20	550	1,560.0	507.0	2.9-3.6	12.9	78.50	795	4,850.0	10,600	3.0-4.0	10.0	1,270.00	500	63,600.0
114	5.4	3.2-3.8	1.0	0.06	300	19.4	8.4	3.2-3.8	0.7	0.07	270	27.2	175	3.2-4.2	0.5	1.05	250	525.0
115	24.2	3.3-3.8	0.8	0.23	380	110.0	49.1	3.3-3.8	0.8	0.47	310	183.0	1,020	3.5-4.5	0.5	6.12	250	3,060.0
116	6.7	3.9-4.4	0.3	0.02	110	8.8	11.1	3.9-4.5	0.3	0.04	100	13.3	231	4.0-5.0	0.3	0.83	80	222.0
117	8.1	3.6-4.2	0.6	0.06	350	34.0	13.8	3.6-4.2	0.3	0.05	315	52.2	287	3.6-4.6	0.3	1.03	300	1,030.0
118	13.4	3.0-3.5	2.7	0.43	235	37.8	22.2	3.0-3.6	2.8	0.75	230	61.3	463	3.0-4.0	2.0	11.10	220	1,220.0
119	20.2	2.8-3.2	12.5	3.03	430	104.0	39.6	2.8-3.2	15.1	7.18	380	181.0	826	2.8-3.8	12.0	119.00	350	3,470.0
120	40.4	3.0-3.5	2.5	1.21	540	262.0	77.6	3.0-3.8	2.8	2.61	395	368.0	1,620	3.0-4.0	2.5	48.60	320	6,220.0
121	26.9	3.7-4.2	0.3	0.10	120	38.7	51.0	3.7-4.4	0.3	0.18	120	73.4	1,060	3.8-4.8	0.1	1.27	110	1,400.0
122	162.0	3.1-3.6	7.5	14.60	465	904.0	313.0	3.1-3.8	10.5	39.40	480	1,800.0	6,540	3.2-4.2	8.0	628.00	475	37,300.0
123	1.3	2.4-3.0	80.0	1.25	1,700	26.5	3.2	2.4-3.0	83.9	3.22	1,760	67.6	66	2.4-3.2	75.0	59.40	1,700	1,350.0
124	5.4	2.6-3.0	45.0	2.92	1,470	95.3	8.5	2.6-3.0	32.9	3.36	1,420	145.0	178	2.6-3.5	30.0	64.10	1,350	2,880.0
125	13.4	2.4-2.8	110.0	17.70	1,460	235.0	20.6	2.4-2.8	146.0	36.10	1,500	371.0	430	2.4-3.2	120.0	619.00	1,450	7,480.0
126	128.0	2.5-3.0	65.0	100.00	690	1,060.0	217.0	2.5-3.0	51.1	133.00	550	1,430.0	4,530	2.5-3.5	45.0	2,450.00	500	27,200.0
127	33.7	2.6-3.0	24.0	9.70	1,130	457.0	60.2	2.6-3.0	27.5	19.90	1,090	787.0	1,260	2.6-3.5	22.0	333.00	1,000	15,100.0
128	101.0	3.5-4.2	4.0	4.85	55	66.7	196.0	3.7-4.9	6.0	14.10	60	141.0	4,100	4.0-5.5	5.0	246.00	50	2,460.0
129	2,160.0	2.8-3.4	36.0	933.00	320	8,290.0	3,250.0	2.8-3.4	43.3	1,690.00	315	12,300.0	67,700	2.8-3.8	35.0	28,400.00	310	252,000.0
130	21.6	2.9-3.5	5.5	1.43	250	64.8	36.9	3.0-3.8	5.4	2.39	205	90.8	770	3.0-4.0	5.0	46.20	175	1,620.0
131	64.7	2.7-3.2	120.0	93.20	700	543.0	101.0	2.7-3.4	110.0	133.00	605	733.0	2,110	2.7-3.7	105.0	2,660.00	500	12,700.0
132	0.5	3.0-3.6	10.0	0.06	900	5.4	0.9	3.0-3.6	9.9	0.11	875	9.5	20	3.0-4.0	8.0	1.92	850	204.0
133	13.4	3.0-3.5	2.5	0.40	725	117.0	23.7	3.0-3.5	2.3	0.65	800	228.0	496	3.0-4.0	2.0	11.90	750	4,460.0
134	20.2	3.7-4.3	0.3	0.07	250	60.6	33.7	3.7-4.3	0.5	0.20	230	93.0	704	3.8-4.8	0.3	2.53	200	1,690.0

Design Average							Design Wet Weather						Design Maximum					
Dis-charge Point(1)	Avg. Daily Rate (gpm)	pH Range	Total Iron		Acid (as CaCO <sub>3</sub> )		Avg. Daily Rate (gpm)	pH Range	Total Iron		Acid (as CaCO <sub>3</sub> )		Avg. Daily Rate (gpm)	pH Range	Total Iron		Acid (as CaCO <sub>3</sub> )	
			mg/1	lbs/day	mg/1	lbs/day			mg/1	lbs/day	mg/1	lbs/day			mg/1	lbs/day	mg/1	lbs/day
135	20.2	2.7-3.2	8.0	1.94	1,000	242.0	36.4	2.7-3.2	6.3	2.75	900	393.0	760	2.7-3.7	5.0	45.60	800	7,300.0
136	6.7	3.3-3.8	1.5	0.12	750	60.3	11.1	3.3-3.8	1.3	0.17	845	113.0	231	3.3-4.0	1.0	2.77	750	2,080.0
137	10.1	2.4-3.0	95.0	11.50	2,450	297.0	19.0	2.4-3.0	88.2	20.10	2,750	627.0	396	2.5-3.2	85.0	404.00	2,400	11,400.0
138	1.3	2.4-2.9	240.0	3.74	2,200	34.3	2.8	2.4-2.9	237.0	7.96	2,000	67.2	59	2.5-3.2	220.0	156.00	1,900	1,350.0
139	24.2	3.2-3.6	5.0	1.45	1,020	296.0	41.6	3.2-3.6	6.5	3.24	940	469.0	869	3.2-4.0	5.0	52.10	925	9,650.0
140	10.8	2.5-3.0	55.0	7.13	1,200	156.0	16.9	2.5-3.0	63.5	12.90	1,110	225.0	354	2.5-3.2	50.0	212.00	1,000	4,250.0
141	2.7	2.8-3.5	5.0	0.16	200	6.5	4.0	2.8-3.6	8.2	0.39	245	11.8	83	2.8-3.8	4.0	3.98	200	199.0
142	10.1	3.5-4.0	0.2	0.02	245	29.7	13.3	3.5-4.0	0.2	0.03	240	38.3	278	3.5-4.5	0.2	0.67	225	751.0
143	10.1	3.2-3.7	0.3	0.04	375	45.5	16.6	3.2-3.8	0.2	0.04	320	63.7	347	3.2-4.2	0.1	0.42	300	1,250.0
144	10.1	2.5-2.9	75.0	9.09	2,250	273.0	17.4	2.5-2.9	90.4	18.90	2,120	443.0	363	2.5-3.2	70.0	305.00	2,000	8,710.0
145	5.4	3.1-3.6	1.4	0.09	435	28.2	8.4	3.1-3.6	1.4	0.14	445	44.9	175	3.1-4.0	1.0	2.10	425	893.0
146	20.2	2.6-3.1	7.5	1.82	710	172.0	36.4	2.6-3.1	10.5	4.59	645	282.0	760	2.6-3.5	7.0	63.80	590	5,380.0
147	10.8	2.7-3.2	5.5	0.71	820	106.0	20.3	2.7-3.2	6.3	1.53	930	227.0	423	2.8-3.8	5.0	25.40	850	4,310.0
148	3.4	3.5-3.9	2.0	0.08	440	18.0	6.0	3.5-4.0	0.2	0.01	415	29.9	126	3.5-4.5	0.1	0.15	375	567.0
149	10.1	3.3-3.9	0.8	0.10	560	67.9	16.6	3.3-4.0	0.4	0.08	550	110.0	347	3.3-4.2	0.2	0.83	520	2,170.0
150	20.2	2.6-3.0	8.5	2.06	830	201.0	39.6	2.6-3.2	7.3	3.47	675	321.0	826	2.6-3.5	6.0	59.50	570	5,650.0
151	108.0	2.7-3.3	20.0	25.90	670	868.0	147.0	2.7-3.3	14.8	26.10	610	1,080.0	3,070	2.7-3.5	10.0	368.00	590	21,700.0
152	94.3	2.6-3.1	10.0	11.30	475	538.0	187.0	2.6-3.4	7.1	15.90	380	853.0	3,900	2.6-3.5	6.0	281.00	350	16,400.0
153	1.3	3.2-4.2	1.5	0.02	200	3.1	3.2	3.2-4.2	1.2	0.05	220	8.4	66	3.5-4.5	1.0	0.79	200	158.0
154	20.2	2.8-3.3	7.0	1.70	1,000	242.0	34.8	2.8-3.3	6.3	2.63	910	380.0	727	2.8-3.8	5.5	48.00	900	7,850.0
155	2.7	2.4-2.8	80.0	2.59	1,350	43.7	4.3	2.4-2.8	79.5	4.10	1,400	72.2	89	2.4-3.2	75.0	80.10	1,350	1,440.0
156	33.7	6.5-8.2	8.0	3.24	0	0.0	47.5	6.5-8.2	7.3	4.16	0	0.0	991	6.5-8.2	7.0	83.20	0	0.0
157	108.0	3.8-4.3	0.7	0.91	120	156.0	190.0	3.8-4.3	0.7	1.60	110	251.0	3,960	4.0-5.0	0.5	23.80	100	4,750.0
158	108.0	3.4-3.8	2.5	3.24	880	1,140.0	207.0	3.4-3.8	3.1	7.70	910	2,260.0	4,330	3.5-4.3	2.5	130.00	875	45,500.0
159	16.2	3.2-3.7	1.0	0.19	350	68.0	34.4	3.2-3.7	0.9	0.37	400	165.0	717	3.2-4.2	0.8	6.88	350	3,010.0
160	13.5	3.8-4.3	0.3	0.05	125	20.3	23.7	3.8-4.5	0.3	0.09	95	27.0	496	4.0-5.0	0.3	1.79	75	446.0
161	0.0	—	—	0.00	—	0.0	0.0	—	—	0.00	—	0.0	183	3.0-4.0	2.0	4.39	300	659.0
162	4.0	3.0-3.6	8.5	0.41	350	16.8	7.1	3.0-3.9	7.1	0.60	365	31.1	149	3.2-4.2	6.5	11.60	300	536.0
163	5.4	3.0-3.6	2.5	0.16	320	20.7	7.9	3.1-3.5	2.8	0.27	340	32.2	165	3.2-4.2	2.0	3.96	300	594.0
164	24.2	2.8-3.2	3.0	0.87	355	103.0	39.9	2.9-3.1	2.9	1.39	335	160.0	833	3.0-4.0	2.0	20.00	300	3,000.0
165	3.4	3.8-4.2	0.2	0.01	35	1.4	6.0	3.9-4.2	0.2	0.01	40	2.9	126	4.0-5.0	0.2	0.30	30	45.4
166	43.1	2.7-3.2	5.5	2.84	400	207.0	66.0	2.7-3.1	6.6	5.23	395	313.0	1,380	2.7-3.5	5.0	82.80	375	6,210.0
167	12.1	3.0-3.6	5.0	0.73	460	66.8	23.7	3.0-3.9	4.5	1.28	495	141.0	496	3.0-4.0	4.0	23.80	400	2,380.0
168	9.4	3.2-3.8	2.2	0.25	450	50.8	17.4	3.2-3.8	0.6	0.13	485	101.0	363	3.2-4.2	0.3	1.31	400	1,740.0
169	33.7	3.0-3.6	1.4	0.57	520	210.0	54.8	3.2-3.4	1.2	0.79	460	302.0	1,140	3.2-4.2	1.0	13.70	400	5,470.0
170	6.7	2.6-3.1	25.0	2.01	200	16.1	14.2	2.6-3.1	48.8	8.32	295	50.3	297	2.6-3.6	35.0	125.00	250	891.0
171	74.1	3.6-4.5	3.0	2.67	60	53.4	116.0	3.6-4.4	3.3	4.59	70	97.4	2,410	3.9-5.0	3.0	86.80	40	1,160.0
172	0.5	3.2-4.0	5.0	0.03	60	0.4	0.8	3.8-4.2	3.8	0.04	35	0.3	17	4.0-5.0	3.0	0.61	20	4.1
173	8.1	3.0-3.6	5.0	0.49	625	60.8	13.1	3.1-3.4	1.2	0.19	545	85.7	274	3.0-4.0	1.0	3.29	500	1,640.0
174	202.0	2.9-3.8	16.0	38.80	275	667.0	366.0	2.9-3.8	16.8	73.80	405	1,780.0	7,630	3.0-4.0	15.0	1,370.00	300	27,500.0
175	14.8	5.1-6.4	0.5	0.09	20	3.6	25.8	5.1-6.0	0.4	0.12	15	4.6	539	5.1-6.5	0.2	1.29	5	32.3
176	10.1	5.3-6.4	0.4	0.05	20	2.4	19.8	4.2-4.9	0.1	0.02	25	5.9	413	5.0-6.5	0.1	0.50	10	49.6
177	9.4	3.0-3.5	0.5	0.06	135	15.2	19.0	3.0-3.5	0.3	0.07	130	29.6	396	3.0-4.0	0.1	0.48	110	523.0
178	21.6	2.7-3.2	7.0	1.81	200	51.8	41.2	2.7-3.2	8.7	4.30	190	93.9	859	2.7-3.7	7.0	72.20	175	1,800.0
179	37.7	3.2-3.8	5.1	2.31	80	36.2	67.6	3.2-3.8	3.4	2.76	45	36.5	1,410	3.2-4.2	2.0	33.80	20	338.0
180	505.0	3.6-4.2	0.8	4.85	240	1,450.0	932.0	3.6-4.2	0.7	7.83	210	2,350.0	19,500	3.6-4.6	0.5	117.00	190	44,500.0
181	168.0	4.9-6.1	0.3	0.60	25	50.4	296.0	4.9-6.1	0.1	0.36	25	88.8	6,180	5.0-6.5	0.1	7.42	15	1,110.0
182	119.0	3.8-4.3	1.0	1.43	110	157.0	184.0	3.8-4.3	0.5	1.10	115	254.0	3,830	4.0-5.0	0.2	9.19	90	4,140.0
183	60.6	5.2-6.1	10.1	7.27	25	18.2	105.0	5.0-6.2	8.3	10.50	25	31.5	2,190	5.0-6.5	7.0	184.00	20	526.0
184	37.7	3.9-4.8	0.2	0.09	25	11.3	69.7	3.9-4.8	0.1	0.08	20	16.7	1,450	4.0-5.5	0.1	1.74	10	174.0

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