

APPENDIX 23

LOADINGS SUMMARY SHEETS

SLIPPERY ROCK CREEK WATERSHED

SAMPLE STATION 4

PA STATE GAME LANDS #9

PROJECT SL-110-7-101.5

LOADING SUMMARY SHEETS

STREAM SAMPLE STATION

4

BIG BERTHA ARTESIAN DISCHARGE

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	DISCHARGE AVG. CFS	RAINFALL INCHES	ALKALINITY POUNDS/DAY	ACIDITY POUNDS/DAY	SULPHATES POUNDS/DAY	IRON TOTAL POUNDS/DAY	IRON II POUNDS/DAY
1	0.04	0.00	9.02	52.86	228.97	33.21	31.72
2	0.04	0.08	9.02	52.86	228.97	33.21	31.72
3	0.04	0.36	9.02	52.86	228.97	33.21	31.72
4	0.04	0.20	9.02	52.86	228.97	33.21	31.72
5	0.04	0.00	9.02	52.86	228.97	33.21	31.72
6	0.04	0.14	9.02	52.86	228.97	33.21	31.72
7	0.04	0.35	9.02	52.86	228.97	33.21	31.72
8	0.04	0.10	9.02	52.86	228.97	33.21	31.72
9	0.04	0.60	9.02	52.86	228.97	33.21	31.72
10	0.04	0.35	9.02	52.86	228.97	33.21	31.72
11	0.04	0.19	9.02	52.86	228.97	33.21	31.72
12	0.04	0.02	9.02	52.86	228.97	33.21	31.72
13	0.04	0.00	9.02	52.86	228.97	33.21	31.72
14	0.04	0.73	9.02	52.86	228.97	33.21	31.72
15	0.04	0.20	9.02	52.86	228.97	33.21	31.72
16	0.04	0.02	9.02	52.86	228.97	33.21	31.72
17	0.04	0.00	9.02	52.86	228.97	33.21	31.72
18	0.04	0.00	9.02	52.86	228.97	33.21	31.72
19	0.04	0.00	9.02	52.86	228.97	33.21	31.72
20	0.04	0.00	9.02	52.86	228.97	33.21	31.72
21	0.04	0.00	9.02	52.86	228.97	33.21	31.72
22	0.04	0.00	9.02	52.86	228.97	33.21	31.72
23	0.04	0.46	9.02	52.86	228.97	33.21	31.72
24	0.04	0.00	9.02	52.86	228.97	33.21	31.72
25	0.04	0.00	9.02	52.86	228.97	33.21	31.72
26	0.04	0.00	9.02	52.86	228.97	33.21	31.72
27	0.04	0.00	9.02	52.86	228.97	33.21	31.72
28	0.04	0.13	9.02	52.86	228.97	33.21	31.72
29	0.04	1.02	9.02	52.86	228.97	33.21	31.72
30	0.04	0.00	9.02	52.86	228.97	33.21	31.72

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	DISCHARGE AVG. CFS	RAINFALL INCHES	ALKALINITY POUNDS/DAY	ACIDITY POUNDS/DAY	SULPHATES POUNDS/DAY	IRON TOTAL POUNDS/DAY	IRON II POUNDS/DAY
1	0.04	0.19	9.02	52.86	228.97	33.21	31.72
2	0.04	0.00	9.02	52.86	228.97	33.21	31.72
3	0.04	0.16	9.02	52.86	228.97	33.21	31.72
4	0.04	0.00	9.02	52.86	228.97	33.21	31.72
5	0.04	0.00	9.02	52.86	228.97	33.21	31.72
6	0.04	0.00	9.02	52.86	228.97	33.21	31.72
7	0.04	0.16	9.02	52.86	228.97	33.21	31.72
8	0.04	0.00	9.02	52.86	228.97	33.21	31.72
9	0.04	0.00	9.02	52.86	228.97	33.21	31.72
10	0.04	0.00	9.02	52.86	228.97	33.21	31.72
11	0.04	0.00	9.02	52.86	228.97	33.21	31.72
12	0.04	0.00	9.02	52.86	228.97	33.21	31.72
13	0.04	0.60	9.02	52.86	228.97	33.21	31.72
14	0.04	2.04	9.02	52.86	228.97	33.21	31.72
15	0.04	0.10	9.02	52.86	228.97	33.21	31.72
16	0.04	0.00	9.02	52.86	228.97	33.21	31.72
17	0.04	0.00	9.02	52.86	228.97	33.21	31.72
18	0.04	0.00	9.02	52.86	228.97	33.21	31.72
19	0.04	0.56	9.02	52.86	228.97	33.21	31.72
20	0.04	0.82	9.02	52.86	228.97	33.21	31.72
21	0.04	0.00	9.02	52.86	228.97	33.21	31.72
22	0.04	0.72	9.02	52.86	228.97	33.21	31.72
23	0.04	1.24	9.02	52.86	228.97	33.21	31.72
24	0.04	0.00	9.02	52.86	228.97	33.21	31.72
25	0.04	0.00	9.02	52.86	228.97	33.21	31.72
26	0.04	0.00	9.02	52.86	228.97	33.21	31.72
27	0.04	0.00	9.02	52.86	228.97	33.21	31.72
28	0.04	0.00	9.02	52.86	228.97	33.21	31.72
29	0.04	0.60	9.02	52.86	228.97	33.21	31.72
30	0.04	0.00	9.02	52.86	228.97	33.21	31.72
31	0.04	0.00	9.02	52.86	228.97	33.21	31.72

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	DISCHARGE AVG. CFS	RAINFALL INCHES	ALKALINITY POUNDS/DAY	ACIDITY POUNDS/DAY	SULPHATES POUNDS/DAY	IRON TOTAL POUNDS/DAY	IRON II POUNDS/DAY
1	0.04	0.00	9.02	52.86	228.97	33.21	31.72
2	0.04	0.08	9.02	52.86	228.97	33.21	31.72
3	0.04	0.36	9.02	52.86	228.97	33.21	31.72
4	0.04	0.20	9.02	52.86	228.97	33.21	31.72
5	0.04	0.00	9.02	52.86	228.97	33.21	31.72
6	0.04	0.14	9.02	52.86	228.97	33.21	31.72
7	0.04	0.35	9.02	52.86	228.97	33.21	31.72
8	0.04	0.10	9.02	52.86	228.97	33.21	31.72
9	0.04	0.60	9.02	52.86	228.97	33.21	31.72
10	0.04	0.35	9.02	52.86	228.97	33.21	31.72
11	0.04	0.19	9.02	52.86	228.97	33.21	31.72
12	0.04	0.02	9.02	52.86	228.97	33.21	31.72
13	0.04	0.00	9.02	52.86	228.97	33.21	31.72
14	0.04	0.73	9.02	52.86	228.97	33.21	31.72
15	0.04	0.20	9.02	52.86	228.97	33.21	31.72
16	0.04	0.02	9.02	52.86	228.97	33.21	31.72
17	0.04	0.00	9.02	52.86	228.97	33.21	31.72
18	0.04	0.00	9.02	52.86	228.97	33.21	31.72
19	0.04	0.00	9.02	52.86	228.97	33.21	31.72
20	0.04	0.00	9.02	52.86	228.97	33.21	31.72
21	0.04	0.00	9.02	52.86	228.97	33.21	31.72
22	0.04	0.00	9.02	52.86	228.97	33.21	31.72
23	0.04	0.46	9.02	52.86	228.97	33.21	31.72
24	0.04	0.00	9.02	52.86	228.97	33.21	31.72
25	0.04	0.00	9.02	52.86	228.97	33.21	31.72
26	0.04	0.00	9.02	52.86	228.97	33.21	31.72
27	0.04	0.00	9.02	52.86	228.97	33.21	31.72
28	0.04	0.13	9.02	52.86	228.97	33.21	31.72
29	0.04	1.02	9.02	52.86	228.97	33.21	31.72
30	0.04	0.00	9.02	52.86	228.97	33.21	31.72

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	DISCHARGE AVG. CFS	RAINFALL INCHES	ALKALINITY POUNDS/DAY	ACIDITY POUNDS/DAY	SULPHATES POUNDS/DAY	IRON TOTAL POUNDS/DAY	IRON II POUNDS/DAY
1	0.04	0.19	9.02	52.86	228.97	33.21	31.72
2	0.04	0.00	9.02	52.86	228.97	33.21	31.72
3	0.04	0.16	9.02	52.86	228.97	33.21	31.72
4	0.04	0.00	9.02	52.86	228.97	33.21	31.72
5	0.04	0.00	9.02	52.86	228.97	33.21	31.72
6	0.04	0.00	9.02	52.86	228.97	33.21	31.72
7	0.04	0.16	9.02	52.86	228.97	33.21	31.72
8	0.04	0.00	9.02	52.86	228.97	33.21	31.72
9	0.04	0.00	9.02	52.86	228.97	33.21	31.72
10	0.04	0.00	9.02	52.86	228.97	33.21	31.72
11	0.04	0.00	9.02	52.86	228.97	33.21	31.72
12	0.04	0.00	9.02	52.86	228.97	33.21	31.72
13	0.04	0.60	9.02	52.86	228.97	33.21	31.72
14	0.04	2.04	9.02	52.86	228.97	33.21	31.72
15	0.04	0.10	9.02	52.86	228.97	33.21	31.72
16	0.04	0.00	9.02	52.86	228.97	33.21	31.72
17	0.04	0.00	9.02	52.86	228.97	33.21	31.72
18	0.04	0.00	9.02	52.86	228.97	33.21	31.72
19	0.04	0.56	9.02	52.86	228.97	33.21	31.72
20	0.04	0.82	9.02	52.86	228.97	33.21	31.72
21	0.04	0.00	9.02	52.86	228.97	33.21	31.72
22	0.04	0.72	9.02	52.86	228.97	33.21	31.72
23	0.04	1.24	9.02	52.86	228.97	33.21	31.72
24	0.04	0.00	9.02	52.86	228.97	33.21	31.72
25	0.04	0.00	9.02	52.86	228.97	33.21	31.72
26	0.04	0.00	9.02	52.86	228.97	33.21	31.72
27	0.04	0.00	9.02	52.86	228.97	33.21	31.72
28	0.04	0.00	9.02	52.86	228.97	33.21	31.72
29	0.04	0.60	9.02	52.86	228.97	33.21	31.72
30	0.04	0.00	9.02	52.86	228.97	33.21	31.72
31	0.04	0.00	9.02	52.86	228.97	33.21	31.72

8/23	DISCHARGE AVG. CFS	RAINFALL INCHES	ALKALINITY POUNDS/DAY	ACIDITY POUNDS/DAY	SULPHATES POUNDS/DAY	IRON TOTAL POUNDS/DAY	IRON II POUNDS/DAY
1	0.04	0.19	9.02	52.86	228.97	33.21	31.72
2	0.04	0.00	9.02	52.86	228.97	33.21	31.72
3	0.04	0.16	9.02	52.86	228.97	33.21	31.72
4	0.04	0.00	9.02	52.86	228.97	33.21	31.72
5	0.04	0.00	9.02	52.86	228.97	33.21	31.72
6	0.04	0.00	9.02	52.86	228.97	33.21	31.72
7	0.04	0.16	9.02	52.86	228.97	33.21	31.72
8	0.04	0.00	9.02	52.86	228.97	33.21	31.72
9	0.04	0.00	9.02	52.86	228.97	33.21	31.72
10	0.04	0.00	9.02	52.86	228.97	33.21	31.72
11	0.04	0.00	9.02	52.86	228.97	33.21	31.72
12	0.04	0.00	9.02	52.86	228.97	33.21	31.72
13	0.04	0.60	9.02	52.86	228.97	33.21	31.72
14	0.04	2.04	9.02	52.86	228.97	33.21	31.72
15	0.04	0.10	9.02	52.86	228.97	33.21	31.72
16	0.04	0.00	9.02	52.86	228.97	33.21	31.72
17	0.04	0.00	9.02	52.86	228.97	33.21	31.72
18	0.04	0.00	9.02	52.86	228.97	33.21	31.72
19	0.04	0.56	9.02	52.86	228.97	33.21	31.72
20	0.04	0.82	9.02	52.86	228.97	33.21	31.72
21	0.04	0.00	9.02	52.86	228.97	33.21	31.72
22	0.04	0.72	9.02	52.86	228.97	33.21	31.72
23	0.04	1.24	9.02	52.86	228.97	33.21	31.72
24	0.04	0.00	9.02	52.86	228.97	33.21	31.72
25	0.04	0.00	9.02	52.86	228.97	33.21	31.72
26	0.04	0.00	9.02	52.86	228.97	33.21	31.72
27	0.04	0.00	9.02	52.86	228.97	33.21	31.72
28	0.04	0.00	9.02	52.86	228.97	33.21	31.72
29	0.04	0.60	9.02	52.86	228.97	33.21	31.72
30	0.04	0.00	9.02	52.86	228.97	33.21	31.72
31	0.04	0.00	9.02	52.86	228.97	33.21	31.72

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	DISCHARGE AVG. CFS	RAINFALL INCHES	ALKALINITY POUNDS/DAY	ACIDITY POUNDS/DAY	SULPHATES POUNDS/DAY	IRON TOTAL POUNDS/DAY	IRON II POUNDS/DAY
1	0.04	0.00	9.02	52.86	228.97	33.21	31.72
2	0.04	0.08	9.02	52.86	228.97	33.21	31.72
3	0.04	0.36	9.02	52.86	228.97	33.21	31.72
4	0.04	0.20	9.02	52.86	228.97	33.21	31.72
5	0.04	0.00	9.02	52.86	228.97	33.21	31.72
6	0.04	0.14	9.02	52.86	228.97	33.21	31.72
7	0.04	0.35	9.02	52.86	228.97	33.21	31.72
8	0.04	0.10	9.02	52.86	228.97	33.21	31.72
9	0.04	0.60	9.02	52.86	228.97	33.21	31.72
10	0.04	0.35	9.02	52.86	228.97	33.21	31.72
11	0.04	0.19	9.02	52.86	228.97	33.21	31.72
12	0.04	0.02	9.02	52.86	228.97	33.21	31.72
13	0.04	0.00	9.02	52.86	228.97	33.21	31.72
14	0.04	0.73	9.02	52.86	228.97	33.21	31.72
15	0.04	0.20	9.02	52.86	228.97	33.21	31.72
16	0.04	0.02	9.02	52.86	228.97	33.21	31.72
17	0.04	0.00	9.02	52.86	228.97	33.21	31.72
18	0.04	0.00	9.02	52.86	228.97	33.21	31.72
19	0.04	0.00	9.02	52.86	228.97	33.21	31.72
20	0.04	0.00	9.02	52.86	228.97	33.21	31.72
21	0.04	0.00	9.02	52.86	228.97	33.21	31.72
22	0.04	0.00	9.02	52.86	228.97	33.21	31.72
23	0.04	0.46	9.02	52.86	228.97	33.21	31.72
24	0.04	0.00	9.02	52.86	228.97	33.21	31.72
25	0.04	0.00	9.02	52.86	228.97	33.21	31.72
26	0.04	0.00	9.02	52.86	228.97	33.21	31.72
27	0.04	0.00	9.02	52.86	228.97	33.21	31.72
28	0.04	0.13	9.02	52.86	228.97	33.21	31.72
29	0.04	1.02	9.02	52.86	228.97	33.21	31.72
30	0.04	0.00	9.02	52.86	228.97	33.21	31.72

APPENDIX 24

LOADINGS SUMMARY SHEETS

SLIPPERY ROCK CREEK WATERSHED

SAMPLE STATION 3

PA STATE GAME LANDS #9

PROJECT SL-110-7-101.5

LOADING SUMMARY SHEETS

STREAM SAMPLE STATION

3

SLIPPERY ROCK CREEK

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DISCHARGE AVG. CFS	RAINFALL INCHES	ALKALINITY POUNDS/DAY	ACIDITY POUNDS/DAY	SULPHATES POUNDS/DAY	IRON TOTAL POUNDS/DAY	IRON II POUNDS/DAY
14.62	0.00	0.00	1367.45	7652.55	94.30	46.61
12.24	0.08	0.00	1189.51	6773.28	83.63	40.39
13.79	0.36	0.00	1306.20	7354.09	90.68	44.46
16.10	0.20	0.00	1484.84	8256.39	101.66	50.68
12.46	0.00	0.00	1205.65	6852.63	84.59	40.95
9.32	0.14	0.00	996.68	5906.20	73.25	33.53
16.80	0.35	0.00	1544.28	8572.01	105.52	52.73
16.08	0.10	0.00	1483.67	8250.95	101.59	50.64
17.79	0.60	0.00	1609.09	8863.41	109.01	55.03
30.12	0.35	0.00	2314.16	11634.56	141.46	90.64
26.77	0.19	0.00	2151.44	11118.43	135.67	74.56
23.49	0.02	0.00	2003.07	10702.32	131.14	68.95
19.19	0.00	0.00	1729.04	9504.11	116.86	59.16
29.13	0.73	0.00	2251.21	11361.73	138.21	78.38
33.63	0.20	0.00	2501.37	12313.38	149.29	87.51
28.16	0.02	0.00	2206.46	11229.57	136.75	76.70
23.68	0.00	0.00	2014.78	10753.49	131.75	69.37
19.77	0.00	0.00	1770.45	9703.99	119.28	60.62
16.49	0.00	0.00	1516.30	8418.86	103.64	51.77
14.23	0.00	0.00	1336.77	7497.77	92.41	45.54
12.17	0.00	0.00	1184.22	6747.57	83.32	40.20
11.02	0.00	0.00	1104.87	6377.64	78.87	37.40
11.63	0.46	0.00	1148.55	6587.55	81.40	38.93
12.39	0.00	0.00	1198.83	6814.30	84.12	40.72
11.04	0.00	0.00	1105.45	6378.61	78.88	37.42
10.11	0.00	0.00	1045.89	6115.19	75.73	35.30
9.11	0.00	0.00	983.14	5846.71	72.54	33.05
9.35	0.13	0.00	1000.62	5929.67	73.54	33.66
17.68	1.02	0.00	1605.67	8861.36	109.01	54.89
33.18	0.00	0.00	2461.67	12098.11	146.65	86.15

DISCHARGE AVG. CFS	RAINFALL INCHES	ALKALINITY POUNDS/DAY	ACIDITY POUNDS/DAY	SULPHATES POUNDS/DAY	IRON TOTAL POUNDS/DAY	IRON II POUNDS/DAY
13.86	0.00	0.00	1309.42	7364.14	90.79	44.58
10.35	0.15	0.00	1061.65	6186.60	76.59	35.86
9.15	0.38	0.00	986.30	5860.50	72.71	33.16
11.12	0.64	0.00	1114.59	6434.19	79.57	37.73
10.70	0.14	0.00	1085.71	6298.02	77.93	36.71
8.01	0.00	0.00	916.21	5566.04	69.22	30.64
6.91	0.00	0.00	848.09	5274.89	65.76	28.20
6.08	0.00	0.00	792.92	5025.58	62.78	26.24
5.13	0.00	0.00	723.81	4689.05	58.70	23.82
4.09	0.00	0.00	633.65	4203.36	52.74	20.72
3.40	0.00	0.00	566.16	3817.01	47.97	18.43
2.99	0.00	0.00	519.27	3532.58	44.43	16.86
2.62	0.06	0.00	472.80	3242.29	40.81	15.32
2.52	0.00	0.00	458.93	3151.62	39.68	14.86
1.89	0.00	0.00	369.78	2574.14	32.45	11.93
1.56	0.00	0.00	316.63	2218.96	27.99	10.19
3.98	1.36	0.00	505.05	3173.54	39.61	16.75
10.76	0.06	0.00	1091.59	6333.70	78.37	36.91
5.05	0.06	0.00	708.19	4579.75	57.32	23.31
3.48	0.10	0.00	574.25	3865.47	48.57	18.70
3.33	0.00	0.00	558.08	3768.54	47.37	18.16
3.01	0.20	0.00	521.34	3545.42	44.59	16.93
2.87	0.02	0.00	504.62	3441.42	43.30	16.37
2.79	0.20	0.00	494.41	3378.55	42.52	16.03
2.52	0.00	0.00	459.48	3157.38	39.75	14.88
2.18	0.00	0.00	412.05	2851.55	35.93	13.31
1.36	0.00	0.00	281.00	1976.29	24.94	9.04
1.14	0.00	0.00	240.15	1694.23	21.38	7.72
0.98	0.00	0.00	211.26	1496.21	18.89	6.78
1.02	0.16	0.00	219.56	1553.73	19.62	7.05
3.90	1.08	0.00	517.97	3299.94	41.24	17.12

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DISCHARGE AVG. CFS	RAINFALL INCHES	ALKALINITY POUNDS/DAY	ACIDITY POUNDS/DAY	SULPHATES POUNDS/DAY	IRON TOTAL POUNDS/DAY	IRON II POUNDS/DAY
10.05	1.62	0.00	1050.52	6168.21	76.42	35.42
11.13	0.06	0.00	1116.20	6445.09	79.70	37.78
5.68	0.00	0.00	755.13	4812.23	60.14	24.95
3.21	0.00	0.00	543.67	3680.13	46.27	17.68
2.79	0.15	0.00	493.96	3374.60	42.46	16.02
2.07	0.02	0.00	395.21	2740.37	34.53	12.76
1.47	0.07	0.00	301.36	2114.96	26.68	9.70
1.41	0.00	0.00	291.18	2045.63	25.81	9.37
1.46	0.00	0.00	298.82	2097.63	26.46	9.62
1.12	0.00	0.00	238.94	1687.93	21.31	7.68
11.43	1.42	0.00	1122.06	6418.57	79.29	38.06
12.85	0.00	0.00	1250.06	7123.14	87.96	42.44
5.94	0.00	0.00	777.11	4930.14	61.59	25.71
2.97	0.00	0.00	514.28	3498.04	44.00	16.70
2.15	0.00	0.00	407.42	2821.33	35.55	13.16
1.77	0.00	0.00	349.53	2438.83	30.75	11.27
1.44	0.00	0.00	296.27	2080.29	26.24	9.53
1.56	0.00	0.00	316.63	2218.96	27.99	10.19
1.50	0.12	0.00	306.45	2149.63	27.12	9.86
1.43	0.00	0.00	293.73	2062.96	26.03	9.45
3.84	0.76	0.00	532.13	3431.83	42.94	17.53
4.17	0.00	0.00	624.52	4107.85	51.50	20.47
2.57	0.64	0.00	434.86	2943.38	37.01	14.14
10.76	0.44	0.00	1089.80	6317.68	78.16	36.85
6.33	0.00	0.00	805.55	5066.39	63.24	26.71
2.67	0.00	0.00	468.84	3197.61	40.23	15.21
1.41	0.00	0.00	291.18	2045.63	25.81	9.37
1.49	0.05	0.00	306.92	2155.42	27.19	9.88
2.93	0.26	0.00	500.10	3390.06	42.63	16.26
2.70	0.00	0.00	479.39	3277.96	41.25	15.54
13.46	1.84	0.00	1264.05	7089.05	87.37	43.06

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DISCHARGE	AVG. CFS	RAINFALL	ALKALINITY	ACIDITY	SULPHATES	IRON TOTAL	IRON II
		INCHES	POUNDS/DAY	POUNDS/DAY	POUNDS/DAY	POUNDS/DAY	POUNDS/DAY
1	24.91	0.02	0.00	2040.70	10665.24	130.33	70.57
2	12.44	0.00	0.00	1209.22	6888.03	85.05	41.05
3	7.05	0.00	0.00	855.88	5305.13	66.12	28.48
4	4.54	0.00	0.00	673.45	4420.82	55.42	22.08
5	2.62	0.00	0.00	471.73	3232.48	40.69	15.29
6	1.70	0.02	0.00	339.38	2370.34	29.89	10.94
7	8.40	0.74	0.00	915.49	5462.84	67.80	30.75
8	6.72	0.00	0.00	833.32	5198.82	64.83	27.69
9	3.94	0.00	0.00	618.41	4114.27	51.64	20.20
10	2.31	0.00	0.00	429.89	2965.73	37.35	13.90
11	1.78	0.00	0.00	352.06	2455.75	30.96	11.35
12	1.41	0.01	0.00	291.18	2045.63	25.81	9.37
13	1.46	0.03	0.00	298.82	2097.63	26.46	9.62
14	1.46	0.00	0.00	298.82	2097.63	26.46	9.62
15	1.44	0.00	0.00	296.27	2080.29	26.24	9.53
16	2.15	0.39	0.00	386.44	2648.91	33.34	12.52
17	8.96	0.52	0.00	975.74	5820.36	72.24	32.78
18	4.65	0.00	0.00	677.71	4428.44	55.49	22.25
19	2.31	0.00	0.00	429.89	2965.73	37.35	13.90
20	1.61	0.00	0.00	321.54	2248.17	28.35	10.36
21	2.39	0.49	0.00	405.65	2747.81	34.55	13.19
22	5.62	0.02	0.00	756.26	4836.39	60.47	24.97
23	3.46	0.00	0.00	571.51	3846.98	48.34	18.61
24	2.47	0.00	0.00	452.83	3114.92	39.22	14.66
25	1.77	0.00	0.00	349.53	2438.83	30.75	11.27
26	1.46	0.00	0.00	298.82	2097.63	26.46	9.62
27	1.49	0.00	0.00	303.91	2132.29	26.90	9.78
28	1.40	0.00	0.00	288.64	2028.29	25.59	9.29
29	1.41	0.00	0.00	291.18	2045.63	25.81	9.37
30	1.44	0.00	0.00	296.27	2080.29	26.24	9.53

PROJECT SL-110-7-101.5

PA STATE GAME LANDS #95

SAMPLE STATION 5

SLIPPERY ROCK CREEK WATERSHED

LOADINGS SUMMARY SHEETS

APPENDIX 25

SURFACE MINE PIT DISCHARGE

5

STREAM SAMPLE STATION

LOADING SUMMARY SHEETS

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	DISCHARGE AVG. CFS	RAINFALL INCHES	ALKALINITY POUNDS/DAY	ACIDITY POUNDS/DAY	SULPHATES POUNDS/DAY	IRON TOTAL POUNDS/DAY	IRON II POUNDS/DAY
1	0.25	0.00	0.00	582.71	1165.61	99.23	16.32
2	0.23	0.08	0.00	546.26	1082.71	88.79	14.47
3	0.24	0.36	0.00	573.50	1142.96	95.87	15.83
4	0.27	0.20	0.00	612.29	1228.43	105.81	17.93
5	0.23	0.00	0.00	549.49	1090.12	89.74	14.69
6	0.20	0.14	0.00	513.17	1001.09	76.61	11.65
7	0.27	0.35	0.00	641.45	1282.63	109.03	18.11
8	0.27	0.10	0.00	612.25	1228.18	105.74	18.00
9	0.28	0.60	0.00	659.96	1322.21	113.27	18.96
10	0.45	0.35	0.00	1079.94	2143.00	176.60	28.76
11	0.40	0.19	0.00	982.95	1931.82	152.81	24.00
12	0.35	0.02	0.00	841.89	1671.96	138.24	22.66
13	0.30	0.00	0.00	688.76	1383.21	119.61	20.38
14	0.46	0.73	0.00	405.62	1223.07	243.65	59.26
15	0.51	0.20	0.00	1121.43	2281.66	207.27	38.20
16	0.42	0.02	0.00	1044.29	2045.96	159.62	24.77
17	0.36	0.00	0.00	848.63	1684.57	139.02	22.75
18	0.31	0.00	0.00	706.84	1418.03	122.11	20.74
19	0.27	0.00	0.00	619.37	1243.89	107.57	18.33
20	0.25	0.00	0.00	576.03	1150.78	97.47	16.33
21	0.23	0.00	0.00	545.24	1080.34	88.47	14.38
22	0.22	0.00	0.00	530.83	1045.71	83.56	13.26
23	0.22	0.46	0.00	539.12	1065.20	86.20	13.77
24	0.23	0.00	0.00	547.78	1086.57	89.39	14.58
25	0.22	0.00	0.00	530.85	1045.86	83.61	13.28
26	0.21	0.00	0.00	520.82	1020.82	79.79	12.39
27	0.20	0.00	0.00	510.84	995.27	75.73	11.44
28	0.20	0.13	0.00	514.16	1003.15	76.81	11.57
29	0.28	1.02	0.00	653.15	1310.32	112.84	18.96
30	0.50	0.00	0.00	924.47	2004.80	223.39	45.02

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DISCHARGE AVG. CFS	RAINFALL INCHES	ALKALINITY POUNDS/DAY	ACIDITY POUNDS/DAY	SULPHATES POUNDS/DAY	IRON TOTAL POUNDS/DAY	IRON II POUNDS/DAY
0.50	0.19	0.00	1150.71	2314.26	201.25	34.12
0.50	0.00	0.00	1195.92	2370.79	194.57	31.81
0.47	0.16	0.00	1158.50	2280.92	181.82	28.81
0.39	0.00	0.00	944.28	1860.51	148.78	23.62
0.33	0.00	0.00	762.14	1523.20	129.23	21.67
0.29	0.00	0.00	663.01	1332.12	115.40	19.69
0.28	0.16	0.00	653.87	1314.31	114.05	19.44
0.25	0.00	0.00	592.30	1185.65	101.23	17.11
0.23	0.00	0.00	554.31	1101.73	91.40	15.02
0.22	0.00	0.00	532.95	1050.96	84.35	13.45
0.21	0.00	0.00	517.89	1013.47	78.66	12.12
0.20	0.00	0.00	511.03	995.81	75.82	11.47
0.21	0.60	0.00	531.32	1043.85	82.44	12.80
0.31	2.04	0.00	693.09	1410.16	128.10	21.21
0.88	0.10	0.00	3335.02	7006.95	1828.52	776.18
0.55	0.00	0.00	883.08	2022.12	258.80	58.87
0.37	0.00	0.00	900.48	1779.24	144.01	23.20
0.26	0.00	0.00	606.69	1215.31	104.05	17.66
0.22	0.56	0.00	537.58	1062.04	85.90	13.77
0.36	0.82	0.00	880.08	1737.16	140.00	22.19
0.32	0.00	0.00	746.40	1493.55	127.32	21.45
0.32	0.72	0.00	759.13	1516.31	128.34	21.19
0.69	1.24	0.00	1533.41	1085.58	579.20	193.12
0.54	0.00	0.00	1081.40	2278.54	233.08	45.49
0.41	0.00	0.00	1007.23	1978.68	156.21	24.55
0.33	0.00	0.00	765.71	1530.14	129.74	21.74
0.28	0.00	0.00	646.86	1299.87	112.67	19.26
0.25	0.00	0.00	591.03	1183.86	101.33	17.11
0.25	0.60	0.00	581.04	1161.58	98.65	16.47
0.30	0.00	0.00	694.26	1392.15	119.67	20.29
0.24	0.00	0.00	564.46	1124.75	94.28	15.67

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DISCHARGE AVG. CFS	RAINFALL INCHES	ALKALINITY POUNDS/DAY	ACIDITY POUNDS/DAY	SULPHATES POUNDS/DAY	IRON TOTAL POUNDS/DAY	IRON II POUNDS/DAY
0.23	0.00	0.00	555.89	1105.49	91.92	15.10
0.23	0.00	0.00	552.95	1098.57	90.98	14.94
0.23	0.78	0.00	544.70	1077.99	87.84	14.06
0.36	0.12	0.00	855.62	1695.77	139.03	22.56
0.27	0.00	0.00	612.20	1228.45	105.89	18.02
0.26	0.22	0.00	595.82	1193.34	102.10	17.16
0.26	0.00	0.00	594.99	1191.49	101.88	17.24
0.23	0.00	0.00	554.63	1102.50	91.50	15.04
0.23	0.00	0.00	543.86	1077.35	88.14	14.28
0.22	0.00	0.00	529.98	1043.37	83.15	13.18
0.20	0.00	0.00	508.67	989.63	74.80	11.23
0.19	0.00	0.00	493.88	950.27	68.14	9.63
0.18	0.00	0.00	486.26	929.49	64.49	8.74
0.18	0.00	0.00	483.79	922.69	63.28	8.43
0.18	0.00	0.00	482.16	918.19	62.48	8.23
0.17	0.09	0.00	481.66	916.80	62.23	8.17
0.17	0.18	0.00	479.73	911.44	61.26	7.93
0.18	0.44	0.00	486.82	930.82	64.68	8.72
0.19	0.10	0.00	501.86	971.65	71.80	10.51
0.18	0.00	0.00	485.76	928.07	64.23	8.69
0.17	0.00	0.00	477.65	905.67	60.23	7.69
0.17	0.00	0.00	474.07	895.73	58.44	7.25
0.17	0.00	0.00	473.61	894.44	58.21	7.19
0.16	0.00	0.00	469.38	882.69	56.09	6.71
0.15	0.00	0.00	460.34	857.67	51.61	5.59
0.16	0.44	0.00	462.97	865.00	52.94	5.80
0.99	0.00	0.00	4667.68	9119.40	1836.19	792.70
0.08	0.00	0.00	452.90	1267.68	230.52	69.58
0.27	0.02	0.00	619.02	1242.83	107.36	18.26

DISCHARGE AVG. CFS	RAINFALL INCHES	ALKALINITY POUNDS/DAY	ACIDITY POUNDS/DAY	SULPHATES POUNDS/DAY	IRON TOTAL POUNDS/DAY	IRON II POUNDS/DAY
0.24	0.00	0.00	570.83	1138.64	95.85	16.02
0.21	0.15	0.00	523.57	1027.57	80.79	12.63
0.20	0.38	0.00	511.40	996.66	75.94	11.47
0.22	0.64	0.00	533.23	1050.73	84.06	13.26
0.21	0.14	0.00	527.91	1038.02	82.28	13.00
0.19	0.00	0.00	501.20	769.86	71.48	10.45
0.18	0.00	0.00	492.34	746.07	67.40	9.44
0.18	0.00	0.00	486.19	929.28	64.45	8.72
0.17	0.00	0.00	479.69	911.33	61.25	7.94
0.17	0.00	0.00	473.03	892.84	57.92	7.14
0.16	0.00	0.00	468.83	881.17	55.82	6.61
0.16	0.00	0.00	466.42	874.48	54.61	6.32
0.16	0.06	0.00	464.29	863.56	53.55	6.06
0.16	0.00	0.00	463.77	867.12	53.29	6.00
0.15	0.00	0.00	460.26	857.43	51.56	5.58
0.15	0.00	0.00	458.47	852.50	50.69	5.36
0.17	1.36	0.00	477.38	902.85	59.22	7.19
0.21	0.06	0.00	529.50	1041.31	82.59	13.09
0.17	0.06	0.00	479.55	910.85	61.14	7.98
0.16	0.10	0.00	469.26	882.37	56.03	6.66
0.16	0.00	0.00	468.40	879.96	55.60	6.56
0.16	0.20	0.00	466.52	874.75	54.66	6.33
0.16	0.02	0.00	465.74	872.58	54.27	6.24
0.16	0.20	0.00	465.24	871.20	54.03	6.17
0.16	0.00	0.00	463.72	867.00	53.27	5.99
0.16	0.00	0.00	461.82	861.73	52.33	5.76
0.15	0.00	0.00	457.40	849.55	50.17	5.24
0.15	0.00	0.00	456.26	846.45	49.62	5.10
0.15	0.00	0.00	455.42	844.16	49.21	5.01
0.15	0.00	0.00	455.65	844.77	49.32	5.03
0.17	1.08	0.00	474.45	896.25	58.41	7.13

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DISCHARGE AVG. CFS	RAINFALL INCHES	ALKALINITY POUNDS/DAY	ACIDITY POUNDS/DAY	SULPHATES POUNDS/DAY	IRON TOTAL POUNDS/DAY	IRON II POUNDS/DAY
0.21	1.62	0.00	524.41	1026.97	79.96	12.22
0.22	0.06	0.00	533.75	1051.73	84.13	13.46
0.18	0.00	0.00	483.98	922.97	63.28	8.51
0.16	0.00	0.00	467.69	878.00	55.25	6.48
0.16	0.15	0.00	465.26	871.24	54.03	6.18
0.16	0.02	0.00	461.21	860.07	52.03	5.70
0.15	0.07	0.00	458.01	851.24	50.46	5.31
0.15	0.00	0.00	457.70	850.40	50.32	5.27
0.15	0.00	0.00	457.93	851.03	50.43	5.30
0.15	0.00	0.00	456.17	846.21	49.58	5.10
0.23	1.42	0.00	585.46	1144.56	88.44	13.21
0.24	0.00	0.00	566.09	1121.51	91.80	15.09
0.18	0.00	0.00	485.56	927.41	64.08	8.69
0.16	0.00	0.00	466.29	874.12	54.55	6.32
0.16	0.00	0.00	461.64	861.25	52.24	5.74
0.15	0.00	0.00	459.58	855.55	51.23	5.50
0.15	0.00	0.00	457.86	850.82	50.39	5.29
0.15	0.00	0.00	458.47	852.50	50.69	5.36
0.15	0.12	0.00	458.16	851.66	50.54	5.32
0.15	0.00	0.00	457.78	850.61	50.35	5.28
0.17	0.76	0.00	473.60	893.98	58.02	7.03
0.17	0.00	0.00	474.03	895.53	58.39	7.33
0.16	0.64	0.00	464.64	869.47	53.70	5.98
0.21	0.44	0.00	528.67	1039.85	82.54	12.99
0.18	0.00	0.00	488.47	935.33	65.47	9.03
0.16	0.00	0.00	464.68	869.69	53.76	6.15
0.15	0.00	0.00	457.70	850.40	50.32	5.27
0.30	0.05	0.00	908.64	1682.38	97.41	9.76
0.16	0.26	0.00	466.21	873.92	54.52	6.26
0.16	0.00	0.00	464.75	869.85	53.78	6.14
0.26	1.84	0.00	646.16	1261.69	96.96	14.36

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DISCHARGE AVG. CFS	RAINFALL INCHES	ALKALINITY POUNDS/DAY	ACIDITY POUNDS/DAY	SULPHATES POUNDS/DAY	IRON TOTAL POUNDS/DAY	IRON II POUNDS/DAY
0.38	0.02	0.00	911.41	1800.91	145.79	23.52
0.23	0.00	0.00	551.72	1093.72	89.76	14.73
0.19	0.00	0.00	493.58	949.34	67.95	9.62
0.17	0.00	0.00	475.86	900.69	59.33	7.50
0.16	0.00	0.00	464.33	868.68	53.57	6.08
0.15	0.02	0.00	459.25	854.66	51.07	5.46
0.20	0.74	0.00	508.86	987.86	73.93	10.80
0.18	0.00	0.00	491.43	943.33	66.86	9.38
0.17	0.00	0.00	472.14	890.37	57.48	7.04
0.16	0.00	0.00	462.56	863.79	52.70	5.87
0.15	0.00	0.00	459.66	855.79	51.27	5.51
0.15	0.01	0.00	457.70	850.40	50.32	5.27
0.15	0.03	0.00	457.93	851.03	50.43	5.29
0.15	0.00	0.00	457.93	851.03	50.43	5.30
0.15	0.00	0.00	457.85	850.82	50.39	5.29
0.16	0.39	0.00	461.94	862.11	52.41	5.70
0.20	0.52	0.00	510.56	993.88	75.32	11.31
0.17	0.00	0.00	476.73	903.10	59.76	7.63
0.16	0.00	0.00	462.56	863.79	52.70	5.87
0.15	0.00	0.00	458.73	853.23	50.82	5.40
0.16	0.49	0.00	463.45	866.31	53.17	5.88
0.18	0.02	0.00	483.23	921.03	62.96	8.39
0.16	0.00	0.00	469.18	882.15	55.99	6.66
0.16	0.00	0.00	463.44	866.22	53.13	5.97
0.15	0.00	0.00	459.58	855.55	51.23	5.50
0.15	0.00	0.00	457.93	851.03	50.43	5.30
0.15	0.00	0.00	458.09	851.45	50.50	5.31
0.15	0.00	0.00	457.62	850.19	50.28	5.26
0.15	0.00	0.00	457.70	850.40	50.32	5.27
0.15	0.00	0.00	457.85	850.82	50.39	5.28

PROJECT SL-110-7-101.5

PA STATE GAME LANDS #95

SAMPLE STATION 1

SLIPPERY ROCK CREEK WATERSHED

LOADINGS SUMMARY SHEETS

APPENDIX 26

SLIPPERY ROCK CREEK

1

STREAM SAMPLE STATION

LOADINGS SUMMARY SHEETS

4/83

DISCHARGE AVG. CFS	RAINFALL INCHES	ALKALINITY POUNDS/DAY	ACIDITY POUNDS/DAY	SULPHATES POUNDS/DAY	IRON TOTAL POUNDS/DAY	IRON II POUNDS/DAY
26.47	0.00	0.00	2894.87	14523.07	225.45	92.80
21.79	0.08	0.00	2431.63	12174.62	189.90	77.33
24.82	0.36	0.00	2751.52	13785.87	214.67	87.75
29.38	0.20	0.00	3227.52	16184.73	251.51	103.28
22.21	0.00	0.00	2473.18	12385.70	193.08	78.73
16.00	0.14	0.00	2045.28	10116.69	162.34	61.92
30.77	0.35	0.00	3402.02	17049.31	265.33	108.60
29.35	0.10	0.00	3224.79	16170.58	251.31	103.18
32.72	0.60	0.00	3533.00	17746.11	274.69	113.80
57.07	0.35	0.00	4472.96	23300.72	330.14	145.15
50.46	0.19	0.00	4339.54	22344.10	325.83	153.61
43.98	0.02	0.00	4383.72	22199.74	337.02	145.77
35.49	0.00	0.00	3901.60	19563.79	304.07	124.82
55.10	0.73	0.00	4500.05	23318.60	334.75	163.03
64.00	0.20	0.00	4662.02	24525.84	339.01	178.21
53.20	0.02	0.00	4265.76	22156.13	316.23	155.85
44.35	0.00	0.00	4404.20	22311.79	338.41	146.66
36.63	0.00	0.00	3999.23	20066.30	311.40	128.27
30.15	0.00	0.00	3317.92	16635.46	258.61	106.11
25.69	0.00	0.00	2811.09	14101.82	218.95	90.09
21.63	0.00	0.00	2418.34	12106.76	188.88	76.87
19.36	0.00	0.00	2240.20	11178.78	175.74	70.30
20.56	0.46	0.00	2346.73	11725.30	183.78	74.02
22.06	0.00	0.00	2449.46	12270.61	191.14	78.07
19.39	0.00	0.00	2239.00	11175.02	175.60	70.31
17.57	0.00	0.00	2125.01	10561.67	167.59	65.61
15.58	0.00	0.00	2019.33	9976.95	160.52	61.84
16.07	0.13	0.00	2061.51	10194.02	163.69	62.33
32.50	1.02	0.00	3544.89	17788.79	275.98	113.75
63.11	0.00	0.00	4579.69	24105.35	332.76	175.38

DISCHARGE AVG. CFS	RAINFALL INCHES	ALKALINITY POUNDS/DAY	ACIDITY POUNDS/DAY	SULPHATES POUNDS/DAY	IRON TOTAL POUNDS/DAY	IRON II POUNDS/DAY
63.39	0.19	0.00	4594.32	24186.88	333.72	176.06
63.10	0.00	0.00	4666.30	24497.54	340.40	177.09
59.92	0.16	0.00	4461.64	23400.77	325.94	168.76
48.75	0.00	0.00	4386.16	22464.30	331.87	152.23
39.86	0.00	0.00	4224.13	21257.07	327.59	137.06
33.62	0.00	0.00	3704.64	18571.84	288.81	118.41
33.01	0.16	0.00	3645.44	18271.36	284.27	116.42
27.35	0.00	0.00	3000.73	15049.17	233.80	96.06
22.97	0.00	0.00	2533.77	12700.79	197.56	80.95
19.73	0.00	0.00	2264.93	11310.59	177.50	71.28
17.03	0.00	0.00	2092.13	10383.94	165.31	64.23
15.63	0.00	0.00	2020.89	9986.70	160.60	60.94
18.66	0.60	0.00	2271.58	11283.86	179.29	69.98
36.29	2.04	0.00	3544.66	17989.35	271.69	118.85
99.23	0.10	0.00	6566.18	35027.20	467.24	263.24
68.99	0.00	0.00	4873.46	25749.22	352.04	189.10
46.46	0.00	0.00	4277.34	21849.47	324.85	147.00
28.59	0.00	0.00	3143.16	15760.76	244.96	100.56
20.45	0.56	0.00	2323.14	11612.37	181.83	73.40
44.62	0.82	0.00	4036.59	20661.34	305.68	139.78
38.99	0.00	0.00	4173.72	20982.41	324.13	134.89
39.13	0.72	0.00	4016.09	20276.23	310.06	131.98
83.34	1.24	0.00	5569.10	29664.30	397.22	222.15
68.02	0.00	0.00	4890.15	25773.32	354.60	188.13
51.60	0.00	0.00	4307.51	22259.79	321.72	154.51
40.09	0.00	0.00	4247.73	21376.43	329.41	137.84
32.41	0.00	0.00	3574.86	17919.40	278.73	114.21
27.40	0.00	0.00	2997.94	15039.34	233.50	96.08
26.21	0.60	0.00	2868.36	14389.18	223.41	91.92
35.55	0.00	0.00	3865.91	19405.14	300.86	124.19

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DISCHARGE	RAINFALL	ALKALINITY	ACIDITY	SULPHATES	IRON TOTAL	IRON II
AVG. CFS	INCHES	POUNDS/DAY	POUNDS/DAY	POUNDS/DAY	POUNDS/DAY	POUNDS/DAY
23.21	0.00	0.00	2553.98	12905.03	199.07	81.67
22.78	0.00	0.00	2516.37	12611.82	196.24	80.35
21.33	0.78	0.00	2407.56	12041.52	188.28	76.25
14.22	0.12	0.00	4227.04	21502.53	322.94	142.99
29.41	0.00	0.00	3231.02	16202.34	251.79	103.39
27.74	0.22	0.00	3040.65	15250.90	236.88	97.38
27.64	0.00	0.00	3031.23	15202.97	236.16	97.06
23.02	0.00	0.00	2537.95	12722.27	197.87	81.10
21.49	0.00	0.00	2399.29	12012.86	187.37	76.30
19.15	0.00	0.00	2233.03	11135.09	175.34	69.87
15.11	0.00	0.00	1997.23	9852.12	159.09	59.78
11.65	0.00	0.00	1841.39	8961.72	149.25	52.04
10.71	0.00	0.00	1795.19	8702.64	146.23	49.87
9.63	0.00	0.00	1734.34	8369.18	142.09	47.21
8.94	0.00	0.00	1693.12	8146.06	139.23	45.47
8.47	0.00	0.00	1657.40	7959.10	136.61	44.13
8.33	0.09	0.00	1646.37	7901.37	135.80	43.72
7.74	0.18	0.00	1586.39	7598.23	131.18	41.74
9.67	0.44	0.00	1714.93	8283.54	140.33	46.88
13.58	0.10	0.00	1927.40	9453.93	154.67	56.33
9.46	0.00	0.00	1715.51	8275.06	140.62	46.61
7.11	0.00	0.00	1529.82	7308.81	126.89	39.78
6.01	0.00	0.00	1409.53	6705.23	117.52	35.92
5.86	0.00	0.00	1390.16	6609.62	115.98	35.34
4.47	0.00	0.00	1156.85	5478.54	96.98	28.86
1.35	0.00	0.00	1443.65	2081.88	37.59	10.58
2.01	0.44	0.00	1301.14	1471.03	24.29	8.65
75.84	0.99	0.00	5547.30	29166.42	403.74	211.63
54.37	0.08	0.00	4531.72	23423.27	338.36	162.68
30.86	0.02	0.00	3306.91	16580.65	257.75	105.76

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DISCHARGE	AVG. CFS	RAINFALL	ALKALINITY	ACIDITY	SULPHATES	IRON TOTAL	IRON II
		INCHES	POUNDS/DAY	POUNDS/DAY	POUNDS/DAY	POUNDS/DAY	POUNDS/DAY
1	24.96	0.00	0.00	2741.53	13747.64	213.64	87.73
2	18.04	0.15	0.00	2157.72	10734.79	169.95	66.89
3	15.68	0.38	0.00	2025.42	10009.76	160.95	61.10
4	19.55	0.64	0.00	2277.47	11357.65	178.81	71.28
5	18.73	0.14	0.00	2210.42	11010.50	173.82	68.86
6	13.41	0.00	0.00	1920.84	9415.26	154.28	55.98
7	11.24	0.00	0.00	1820.66	8846.23	147.88	51.08
8	9.60	0.00	0.00	1729.90	8347.54	141.73	47.08
9	7.74	0.00	0.00	1593.33	7629.66	131.79	41.87
10	5.68	0.00	0.00	1366.28	6491.73	114.08	34.62
11	4.33	0.00	0.00	1171.19	5535.81	98.40	28.95
12	3.51	0.00	0.00	1017.40	4795.89	85.76	24.82
13	2.78	0.06	0.00	855.07	4021.30	72.28	20.62
14	2.59	0.00	0.00	801.80	3769.98	67.79	19.32
15	1.34	0.00	0.00	465.77	2181.29	39.56	11.00
16	0.68	0.00	0.00	252.15	1178.61	21.47	5.90
17	5.47	1.36	0.00	683.47	3387.16	54.11	20.85
18	18.84	0.06	0.00	2236.13	11132.40	175.97	69.51
19	7.58	0.06	0.00	1527.94	7325.29	126.19	40.38
20	4.47	0.10	0.00	1197.03	5660.57	100.52	29.65
21	4.18	0.00	0.00	1145.35	5411.04	96.29	28.24
22	3.55	0.20	0.00	1024.51	4829.90	86.35	25.00
23	3.28	0.02	0.00	966.65	4553.44	81.55	23.50
24	3.11	0.20	0.00	932.08	4387.82	78.69	22.59
25	2.58	0.00	0.00	806.51	3790.81	68.22	19.39
26	1.90	0.00	0.00	629.48	2952.83	53.37	14.99
27	0.28	0.00	0.00	403.28	482.75	8.79	2.42
28	0.15	0.00	0.00	472.19	335.12	6.20	1.63
29	0.47	0.00	0.00	494.48	905.97	16.62	4.47
30	0.38	0.16	0.00	458.59	738.78	13.55	3.65
31	5.30	1.08	0.00	765.20	3748.68	61.50	22.25

DISCHARGE	AVG. CFS	RAINFALL	ALKALINITY	ACIDITY	SULPHATES	IRON TOTAL	IRON II
		INCHES	POUNDS/DAY	POUNDS/DAY	POUNDS/DAY	POUNDS/DAY	POUNDS/DAY
1	17.45	1.62	0.00	2186.46	10833.62	173.15	66.66
2	19.57	0.06	0.00	2286.11	11297.79	179.55	71.48
3	8.82	0.00	0.00	1626.38	7836.95	133.48	43.98
4	3.94	0.00	0.00	1096.87	5178.62	92.29	26.96
5	3.11	0.15	0.00	929.13	4374.59	78.43	22.53
6	1.68	0.02	0.00	563.44	2642.05	47.79	13.39
7	0.51	0.07	0.00	188.35	880.38	16.03	4.41
8	0.40	0.00	0.00	145.81	681.57	12.41	3.41
9	0.48	0.00	0.00	177.71	830.68	15.13	4.16
10	0.18	0.00	0.00	74.85	348.67	6.40	1.72
11	20.17	1.42	0.00	2349.66	11717.71	184.48	73.55
12	22.97	0.00	0.00	2654.03	13245.42	208.17	83.32
13	9.32	0.00	0.00	1680.69	8109.87	137.71	45.73
14	3.46	0.00	0.00	996.00	4696.17	83.93	24.32
15	1.84	0.00	0.00	611.72	2869.06	51.87	14.55
16	1.09	0.00	0.00	384.39	1799.31	32.67	9.06
17	0.45	0.00	0.00	167.08	780.98	14.22	3.91
18	0.68	0.00	0.00	252.15	1178.61	21.47	5.90
19	0.57	0.12	0.00	209.61	979.79	17.84	4.90
20	0.42	0.00	0.00	156.44	731.27	13.32	3.66
21	5.18	0.76	0.00	863.80	4188.66	70.34	24.03
22	5.85	0.00	0.00	1292.89	6168.06	107.43	33.40
23	2.67	0.64	0.00	652.76	3099.33	54.55	16.49
24	19.85	0.44	0.00	2220.84	11063.71	174.61	69.22
25	10.11	0.00	0.00	1735.92	8401.82	141.69	47.88
26	2.87	0.00	0.00	817.51	3856.35	68.85	20.01
27	0.40	0.00	0.00	145.81	681.57	12.41	3.41
28	1.84	0.05	0.00	935.16	4334.07	80.38	20.94
29	3.39	0.26	0.00	923.40	4363.65	77.61	22.80
30	2.92	0.00	0.00	871.53	4103.75	73.56	21.14
31	24.17	1.84	0.00	2641.93	13254.56	205.75	84.70

DISCHARGE AVG. CFS	RAINFALL INCHES	ALKALINITY POUNDS/DAY	ACIDITY POUNDS/DAY	SULPHATES POUNDS/DAY	IRON TOTAL POUNDS/DAY	IRON II POUNDS/DAY
46.78	0.02	0.00	4182.34	21436.06	316.11	145.55
22.16	0.00	0.00	2505.57	12529.77	195.99	79.30
11.52	0.00	0.00	1829.91	8902.60	148.39	51.63
6.56	0.00	0.00	1469.81	7007.69	122.22	37.86
2.78	0.00	0.00	847.60	3987.90	71.61	20.48
0.97	0.02	0.00	342.78	1604.41	29.13	8.07
14.19	0.74	0.00	1842.68	9102.93	146.50	55.49
10.88	0.00	0.00	1789.87	8687.27	145.58	49.99
5.39	0.00	0.00	1320.13	6267.16	110.34	33.32
2.16	0.00	0.00	695.01	3263.63	58.85	16.64
1.12	0.00	0.00	394.56	1847.06	33.53	9.30
0.40	0.01	0.00	145.81	681.57	12.41	3.41
0.48	0.03	0.00	177.71	830.68	15.13	4.16
0.48	0.00	0.00	177.71	830.68	15.13	4.16
0.45	0.00	0.00	167.08	780.98	14.22	3.91
1.84	0.39	0.00	490.04	2317.89	41.14	12.15
15.30	0.52	0.00	2019.60	9963.39	160.86	60.47
6.78	0.00	0.00	1463.96	6992.97	121.45	38.04
2.16	0.00	0.00	695.01	3263.63	58.85	16.64
0.77	0.00	0.00	267.42	1252.57	22.71	6.32
2.31	0.49	0.00	532.12	2533.80	44.32	13.62
8.70	0.02	0.00	1646.95	7923.76	135.43	44.23
4.44	0.00	0.00	1185.88	5608.38	99.57	29.39
2.48	0.00	0.00	782.23	3675.56	66.19	18.78
1.09	0.00	0.00	384.39	1799.31	32.67	9.06
0.48	0.00	0.00	177.71	830.68	15.13	4.16
0.54	0.00	0.00	198.98	930.09	16.94	4.65
0.37	0.00	0.00	135.18	631.86	11.51	3.16
0.40	0.00	0.00	145.81	681.57	12.41	3.41
0.45	0.00	0.00	167.08	780.98	14.22	3.91

APPENDIX 27  
DRILL LOGS  
SLIPPERY ROCK CREEK WATERSHED  
PA STATE GAME LANDS #95  
PROJECT SL-110-7-101.5

Run No.	Depth From / To	Lithology	Recovery
1	12.0 / 15.3	Shale	Recovery 3.0'/5.0' = 60.0%
	15.3 / 17.0	Shale	
2	17.0 / 21.2	Shale	Recovery 4.5'/7.0' = 65.7%
	21.2 / 24.0	Shale	
3	24.0 / 34.0	Shale	Recovery 6.9'/10' = 69.0%
4	34.0 / 39.4	Claystone	
	39.4 / 40.1	Shale	
	40.1 / 43.9	Shale	
	43.9 / 44.0	Claystone	Recovery 5.6'/10' = 56.0%
5	44.0 / 48.0	Shale	Recovery 4.0'/4.0' = 100%
6 (Recore)	48.0 / 48.5	Claystone	
	48.5 / 49.0	Claystone	
	49.0 / 49.6	Claystone	
	49.6 / 50.5	Claystone	
	50.5 / 54.0	Coal	
	54.0 / 54.3	Clay	
	54.3 / 55.0	Claystone	Recovery 6.7'/7.0' = 96%

Run No.	Depth From / To	Lithology
7	55.0 - 61.5	Clayshale
	61.5 - 65.0	Siltstone
		Recovery 10.0'/10.0' = 100%
8	65.0 - 66.3	Siltstone
	66.3 - 69.5	Sandstone
	69.5 - 70.3	Siltstone
	70.3 - 73.5	Sandstone
	73.5 - 75.0	Sandstone
		Adj for Lost Core
		Recovery 8.5'/10.0' = 85%
9	75.0 - 76.1	Sandstone
	76.1 - 77.4	Shale
	77.4 - 77.6	Clay
	77.6 - 77.6	Clay
	77.6 - 83.9	Sandstone
	83.9 - 84.4	Sandstone
	84.4 - 84.4	Sandstone
	84.4 - 85.0	Sandstone
		Recovery 10.0'/10.0' = 100%
10	85.0 - 87.0	Sandstone
		Recovery 2.0'/2.0' = 100%
11	87.0 - 93.8	Shale
	93.8 - 94.3	Shale
	94.3 - 94.8	Coal
	94.8 - 95.9	Clayshale
	95.9 - 97.0	Shale
		Recovery 10.0'/10.0' = 100%

Run No.	Depth	From / To	Lithology
12	97.0	98.3	Shale
	98.3	99.8	Shandstone
	99.8	101.5	Shale
	101.5	101.8	Shale
	101.8	102.3	Sandstone
	102.3	107.0	Clayshale
	Recovery 9.6'/10.0' = 96%		
	107.0	117.0	Siltstone
	Recovery 10.0'/10.0' = 100%		
	13	117.0	124.0
124.0		124.6	Coal
124.6		124.7	Shale
124.7		127.0	Clayshale
Recovery 10.0'/10.0' = 100%			
14	127.0	136.0	Shale
	136.0	137.0	Sandstone
	Recovery 10.0'/10.0' = 100%		
	137.0	139.2	Sandstone
	139.2	144.5	Shale
16	144.5	145.5	Shale
	145.5	145.4	Clayshale
	145.4	146.4	Sandstone
	146.4	147.0	Shale
	Recovery 10.0'/10.0' = 100%		
17	147.0	150.0	Sandstone
	150.0	156.6	Siltstone
	156.6	157.0	Adj. For Lost Core
	Recovery 9.6'/10.0' = 96%		
	18	157.0	157.7
157.7		158.0	Clay
158.0		161.3	Shale
161.3		162.3	Clayshale
162.3		163.5	Adj. For Lost Core
Recovery 5.3'/6.5' = 81.5%			

Run No.	Depth From / To	Lithology
19	163.5 - 167.5	Clayshale
20 (Recore)	167.5 - 168.8	Claystone
	168.8 - 169.8	Claystone
	169.9 - 172.1	Claystone
	172.1 - 174.6	Siltstone
	174.6 - 174.8	Unconsolidated Sandstone
	174.8 - 175.0	Sandstone
	175.0 - 176.2	Sandstone
21 (Recore)	176.2 - 177.2	Siltstone
	177.2 - 187.5	Claystone
	187.5 - 187.7	Siltstone
22	187.7 - 189.1	Siltstone
	189.1 - 191.1	Sandstone
	189.1 - 191.1	Shale
	191.1 - 195.1	Siltstone
	195.1 - 196.3	Shale
	196.3 - 196.5	Shale
	196.5 - 197.5	Clayshale
	197.5 - 198.3	Clayshale
23	198.3 - 198.3	Clayshale
	198.3 - 200.3	Shale
	200.3 - 202.4	Siltstone
	202.4 - 207.5	Sandstone
	207.5 - 208.2	Sandstone
24	208.2 - 208.2	Sandstone
	208.2 - 208.6	Siltstone
	208.6 - 217.5	Sandstone
25	217.5 - 227.5	Sandstone
	227.5 - 227.5	Sandstone

Recovery 10.0'/10.0' = 100%

Recovery 10.0'/10.0' = 100%

Recovery 10.0'/10.0' = 100%

Recovery 9.6'/10.0' = 96%

Recovery 12.5'/12.5' = 100%

Recovery 8.5'/8.5' = 100%

Recovery 3.7'/4.0' = 92.5%

Run No.	Depth From / To	Lithology
26	227.5 - 232.6 232.6 - 234.7 234.7 - 237.5	Sandstone Sandstone Sandstone
		Recovery 10.0'/10.0' = 100%
27	237.5 - 242.4 242.4 - 247.5	Sandstone Sandstone
		Recovery 10.0'/10.0' = 100%
28	247.5 - 257.5	Sandstone
		Recovery 10.0'/10.0' = 100%
29	257.5 - 259.5 259.5 - 260.0 260.0 - 260.5 260.5 - 261.5 261.5 - 267.5	Sandstone Sandstone Sandstone Sandstone Sandstone
		Recovery 10.0'/10.0' = 100%
30	267.5 - 268.8 268.8 - 269.5 269.5 - 271.5 271.5 - 272.5 272.5 - 277.5	Sandstone Sandstone Sandstone Sandstone Sandstone
		Recovery 10.0'/10.0' = 100%

RI-B DRILL HOLE

<u>Start</u>	<u>Finish</u>	<u>Lithology</u>
0	48.0	Sandstone
48.0	50.5	Sandstone
50.0	54.0	Shale
54.0	54.5	Shale
54.5	86.0	Sandstone
86.0	86.5	Coal
86.5	96.5	Shale
96.5	101.0	Shale
101.0	123.5	Sandstone
123.5	127.0	Limestone
127.0	136.0	Sandstone
136.0	137.0	Shale
137.0	172.0	Sandstone
172.0	177.0	Sandstone
177.0	187.0	Sandstone
187.0	201.0	Sandstone
201.0	232.0	Siltstone
232.0	237.0	Shale
237.0	289.0	Siltstone
289.0	293.0	Shale
293.0	295.0	Shale
295.0	299.0	Coal
299.0	301.0	Shale
301.0	305.0	Sandstone