

Appendix 9.C

Ash Chemistry 1997-2003

Pottsville Environmental Testing Laboratory, Inc.

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Palo Alto, Pennsylvania 17901

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7/3/97


JIM WETZEL
% NORTHEASTERN POWER COMPANY
P.O. BOX 7
McADOO, PA 18237

Sample Location: FLY ASH
Sample Date/Time: 06/12/97 (COMP.)

Sampled By: J.W.

PARAMETER	MODULE 25A - ASH QUALITY INFORMATION		ANALYSIS METHOD
	ASH DRY WT. (mg/kg)	LEACHATE (mg/l)	
1. pH Solid	10.40	11.06	9045
2. Aluminum	16,200.	1.79	6010A
3. Antimony	< 1.50	< 0.030	6010A
4. Arsenic	< 1.00	< 0.020	6010A
5. Barium	130.	0.113	6010A
6. Boron	2.38	0.111	212.3
7. Cadmium	< 0.250	< 0.005	6010A
8. Chromium	19.5	0.047	6010A
9. Cobalt	3.08	< 0.005	6010A
10. Copper	20.0	0.005	6010A
11. Iron	7,250.	0.067	6010A
12. Lead	13.1	< 0.050	6010A
13. Manganese	22.5	< 0.005	6010A
14. Mercury	0.693	< 0.001	7471
15. Molybdenum	1.73	0.035	6010A
16. Nickel	9.96	< 0.010	6010A
17. Potassium	3,990.	11.1	6010A
18. Selenium	15.0	< 0.010	6010A
19. Silver	< 0.250	< 0.005	6010A
20. Zinc	7.03	0.014	6010A
21. Sulfate	---	147.	9038
22. Ammonia Nitrogen	---	< 0.50	350.3
23. Nitrate Nitrogen	---	< 0.50	9200
24. Chloride	---	43.0	3250
25. Cyanide	---	< 0.005	9010
26. Sodium	---	8.27	6010A
27. Phenolics	---	0.005	9065
28. TOC	---	< 1.0	9060
29. TOX	---	0.02	9022
30. COD	---	< 10.0	410.4
31. Acid Neut. Pot.	467,000.	---	C400-87

If there are any questions regarding this data, feel free to contact me.


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P.O. BOX 7
McADOO, PA 18237

Sample Location: BOTTOM ASH
Sample Date/Time: 06/12/97 (COMP.)

Sampled By: J.W.

PARAMETER	MODULE 25A - ASH QUALITY INFORMATION		ANALYSIS METHOD
	ASH DRY WT. (mg/kg)	LEACHATE (mg/l)	
1. pH Solid	11.70	12.15	9045
2. Aluminum	6,780.	0.293	6010A
3. Antimony	< 1.50	< 0.030	6010A
4. Arsenic	< 1.00	< 0.020	6010A
5. Barium	60.	0.020	6010A
6. Boron	2.28	0.012	212.3
7. Cadmium	< 0.250	< 0.005	6010A
8. Chromium	5.17	< 0.005	6010A
9. Cobalt	0.530	< 0.005	6010A
10. Copper	5.07	< 0.005	6010A
11. Iron	2,340.	0.035	6010A
12. Lead	6.18	< 0.050	6010A
13. Manganese	10.6	< 0.005	6010A
14. Mercury	< 0.020	< 0.001	7471
15. Molybdenum	0.300	0.022	6010A
16. Nickel	2.83	< 0.010	6010A
17. Potassium	2,650.	6.49	6010A
18. Selenium	1.71	< 0.010	6010A
19. Silver	< 0.250	< 0.005	6010A
20. Zinc	3.08	< 0.005	6010A
21. Sulfate	---	68.2	9038
22. Ammonia Nitrogen	---	< 0.50	350.3
23. Nitrate Nitrogen	---	8.00	9200
24. Chloride	---	230.	3250
25. Cyanide	---	< 0.005	9010
26. Sodium	---	2.23	6010A
27. Phenolics	---	0.007	9065
28. TOC	---	1.37	9060
29. TOX	---	3.16	9022
30. COD	---	< 10.0	410.4
31. Acid Neut. Pot.	430,000.	---	C400-87

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12/31/97


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Sample Location: FLY ASH
Sample Date/Time: 11/24/97 (COMP.)

Sampled By: J.W.

MODULE 25A - ASH QUALITY INFORMATION			
PARAMETER	ASH DRY WT. (mg/kg)	LEACHATE (mg/l)	ANALYSIS METHOD
1. pH Solid	10.5	---	9045
2. Aluminum	28,800.	3.12	6010A
3. Antimony	< 2.28	< 0.050	6010A
4. Arsenic	29.4	< 0.050	6010A
5. Barium	236.	0.130	6010A
6. Boron	18.0	0.296	212.3
7. Cadmium	< 0.381	< 0.050	6010A
8. Chromium	30.0	0.052	6010A
9. Cobalt	4.29	< 0.050	6010A
10. Copper	26.9	< 0.050	6010A
11. Iron	9,510.	< 0.100	6010A
12. Lead	27.9	< 0.050	6010A
13. Manganese	202.	< 0.050	6010A
14. Mercury	0.721	< 0.001	7471
15. Molybdenum	3.06	< 0.100	6010A
16. Nickel	14.0	< 0.050	6010A
17. Potassium	6,800.	7.40	6010A
18. Selenium	18.9	< 0.050	6010A
19. Silver	< 0.381	< 0.050	6010A
20. Zinc	32.6	0.027	6010A
21. Sulfate	---	< 200.0	9038
22. Ammonia Nitrogen	---	< 0.2	350.3
23. Nitrate Nitrogen	---	0.4	9200
24. Chloride	---	2.	3250
25. Cyanide	---	< 0.005	9010
26. Sodium	---	10.9	6010A
27. Phenolics	---	< 0.010	9065
28. TOC	---	< 1.	9060
29. TOX	---	< 0.02	9022
30. COD	---	< 10.	410.4
31. Acid Neut. Pot.	890,000.	---	C400-87

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McADOO, PA 18237

Sample Location: BOTTOM ASH
Sample Date/Time: 11/24/97 (COMP.)

Sampled By: J.W.

PARAMETER	MODULE 25A - ASH QUALITY INFORMATION		ANALYSIS METHOD
	ASH DRY WT. (mg/kg)	LEACHATE (mg/l)	
1. pH Solid	11.5	---	9045
2. Aluminum	10,600.	1.57	6010A
3. Antimony	< 1.54	< 0.050	6010A
4. Arsenic	5.05	< 0.050	6010A
5. Barium	106.	0.175	6010A
6. Boron	4.80	0.180	212.3
7. Cadmium	0.257	< 0.050	6010A
8. Chromium	9.26	< 0.050	6010A
9. Cobalt	0.929	< 0.050	6010A
10. Copper	5.63	< 0.050	6010A
11. Iron	4,090.	< 0.100	6010A
12. Lead	7.66	< 0.050	6010A
13. Manganese	48.5	< 0.050	6010A
14. Mercury	< 0.05	< 0.001	7471
15. Molybdenum	0.568	< 0.100	6010A
16. Nickel	4.99	< 0.050	6010A
17. Potassium	3,810.	3.75	6010A
18. Selenium	5.46	< 0.050	6010A
19. Silver	< 0.257	< 0.050	6010A
20. Zinc	8.15	0.028	6010A
21. Sulfate	---	< 200.0	9038
22. Ammonia Nitrogen	---	< 0.2	350.3
23. Nitrate Nitrogen	---	0.4	9200
24. Chloride	---	1.	3250
25. Cyanide	---	< 0.005	9010
26. Sodium	---	5.35	6010A
27. Phenolics	---	< 0.010	9065
28. TOC	---	< 1.	9060
29. TOX	---	< 0.02	9022
30. COD	---	< 10.	410.4
31. Acid Neut. Pot.	1,050,000.	---	C400-87

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6/22/98

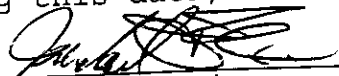
JIM WETZEL
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P.O. BOX 7
McADOO, PA 18237

Sample Location: FLY ASH
Sample Date/Time: 05/27/98 (COMP.)

Sampled By: J.W.

PARAMETER	MODULE 25A - ASH QUALITY INFORMATION		ANALYSIS METHOD
	ASH DRY WT. (mg/kg)	LEACHATE (mg/l)	
1. pH Solid	8.95	9.68	9045
2. Aluminum	23,000.	0.510	6010
3. Antimony	1.12	< 0.050	6010
4. Arsenic	16.4	< 0.050	6010
5. Barium	239.	0.143	6010
6. Boron	15.3	0.227	6010
7. Cadmium	< 0.653	< 0.050	6010
8. Chromium	26.4	0.224	6010
9. Cobalt	3.59	< 0.050	6010
10. Copper	27.7	< 0.050	6010
11. Iron	4,100.	< 0.100	6010
12. Lead	10.7	0.302	6010
13. Manganese	53.4	< 0.500	7471/7470
14. Mercury	0.670	< 0.001	6010
15. Molybdenum	4.79	0.291	6010
16. Nickel	9.31	< 0.050	6010
17. Potassium	9,930.	18.3	6010
18. Selenium	10.7	0.074	6010
19. Silver	< 0.653	< 0.050	6010
20. Zinc	20.5	0.025	6010
21. Sulfate	---	805.	9038
22. Ammonia Nitrogen	---	< 0.2	417G
23. Nitrate Nitrogen	---	0.66	9200
24. Chloride	---	4.66	9250
25. Cyanide	---	< 0.005	9010A
26. Sodium	---	27.6	6010
27. Phenolics	---	< 0.01	9065
28. TOC	---	< 1.	9060A
29. TOX	---	0.06	9020A
30. COD	---	< 10.	5220
31. Acid Neut. Pot.	690,000.	---	C400-87

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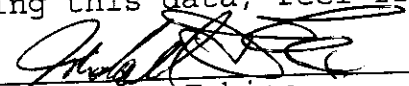
JIM WETZEL
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Sample Location: BOTTOM ASH
Sample Date/Time: 05/27/98 (COMP.)

Sampled By: J.W.

PARAMETER	MODULE 25A - ASH QUALITY INFORMATION		ANALYSIS METHOD
	ASH DRY WT. (mg/kg)	LEACHATE (mg/l)	
1. pH Solid	12.0	12.1	9045
2. Aluminum	13,300.	2.93	6010
3. Antimony	< 0.534	< 0.050	6010
4. Arsenic	2.34	< 0.050	6010
5. Barium	143.	0.159	6010
6. Boron	7.1	0.130	6010
7. Cadmium	< 0.534	< 0.050	6010
8. Chromium	10.5	< 0.050	6010
9. Cobalt	1.29	< 0.050	6010
10. Copper	8.93	< 0.050	6010
11. Iron	2,400.	< 0.100	6010
12. Lead	11.5	< 0.050	6010
13. Manganese	42.2	< 0.500	6010
14. Mercury	< 0.0534	0.014	7471/7470
15. Molybdenum	0.547	< 0.100	6010
16. Nickel	4.71	< 0.050	6010
17. Potassium	< 534.	15.5	6010
18. Selenium	< 0.534	< 0.050	6010
19. Silver	< 0.534	< 0.050	6010
20. Zinc	7.55	0.033	6010
21. Sulfate	---	66.9	9038
22. Ammonia Nitrogen	---	< 0.2	417G
23. Nitrate Nitrogen	---	0.62	9200
24. Chloride	---	< 2.00	9250
25. Cyanide	---	< 0.005	9010A
26. Sodium	---	9.72	6010
27. Phenolics	---	< 0.01	9065
28. TOC	---	< 1.	9060A
29. TOX	---	< 0.02	9020A
30. COD	---	< 10.	5220
31. Acid Neut. Pot.	1,380,000.	---	C400-87

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12/18/98

JIM WETZEL
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Sample Location: FLY ASH
Sample Date/Time: 11/11/98 (A.M.)

Sampled By: J.W.

MODULE 25 - COAL ASH AND LEACHATE ANALYSIS

PARAMETER	ASH DRY WT. (mg/kg)	SPLP LEACHATE (mg/l)	ANALYSIS METHOD
1. pH Solid	10.67	11.1	9045
2. Aluminum	26,000.	3.19	6010
3. Antimony	1.06	< 0.050	6010
4. Arsenic	17.7	< 0.050	6010
5. Barium	247.	< 0.050	6010
6. Boron	5.83	< 0.050	6010
7. Cadmium	< 0.726	< 0.050	6010
8. Chromium	28.2	< 0.050	6010
9. Copper	31.3	< 0.050	6010
10. Iron	11,887.	< 0.100	6010
11. Lead	22.4	< 0.050	6010
12. Manganese	55.3	< 0.500	6010
13. Mercury	0.871	< 0.001	7471
14. Molybdenum	3.11	< 0.100	6010
15. Nickel	12.5	< 0.050	6010
16. Selenium	10.1	< 0.050	6010
17. Zinc	18.1	< 0.050	6010
18. Sulfate	---	107.	300.0
19. Chloride	---	1.38	300.0
20. Sodium	---	5.85	6010
21. Acid Neut. Pot.	440,000.	---	C400-87

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12/18/98

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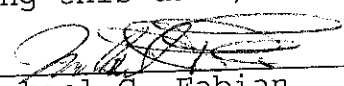
Sample Location: BOTTOM ASH
Sample Date/Time: 11/11/98 (A.M.)

Sampled By: J.W.

MODULE 25 - COAL ASH AND LEACHATE ANALYSIS

PARAMETER	ASH DRY WT. (mg/kg)	SPLP LEACHATE (mg/l)	ANALYSIS METHOD
1. pH Solid	10.7	11.5	9045
2. Aluminum	13,600.	4.62	6010
3. Antimony	< 0.566	< 0.050	6010
4. Arsenic	2.40	< 0.050	6010
5. Barium	137.	0.140	6010
6. Boron	2.54	0.064	6010
7. Cadmium	< 0.566	< 0.050	6010
8. Chromium	11.1	< 0.050	6010
9. Copper	9.61	< 0.050	6010
10. Iron	8,460.	< 0.100	6010
11. Lead	7.85	< 0.050	6010
12. Manganese	107.	< 0.500	6010
13. Mercury	< 0.113	0.0069	7471
14. Molybdenum	< 0.566	< 0.100	6010
15. Nickel	5.99	< 0.050	6010
16. Selenium	< 0.566	< 0.050	6010
17. Zinc	10.9	< 0.050	6010
18. Sulfate	---	30.1	300.0
19. Chloride	---	< 1.00	300.0
20. Sodium	---	4.85	6010
21. Acid Neut. Pot.	2,040,000.	---	C400-87

If there are any questions regarding this data, feel free to contact me.


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5/13/99

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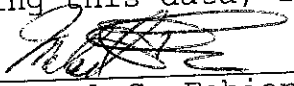
Sample Location: FLY ASH
Sample Date/Time: 04/20/99 (COMP.)

Sampled By: J.W.

MODULE 25 - COAL ASH AND LEACHATE ANALYSIS

PARAMETER	ASH DRY WT. (mg/kg)	SPLP LEACHATE (mg/l)	ANALYSIS METHOD
1. pH Solid	10.88	10.8	9045
2. Aluminum	28,200.	2.77	6010
3. Antimony	< 0.719	< 0.050	6010
4. Arsenic	18.3	< 0.050	6010
5. Barium	243.	0.157	6010
6. Boron	7.1	0.085	6010
7. Cadmium	< 0.719	< 0.050	6010
8. Chromium	28.2	0.051	6010
9. Copper	32.8	< 0.050	6010
10. Iron	12,700.	< 0.100	6010
11. Lead	26.6	< 0.050	6010
12. Manganese	52.5	< 0.500	6010
13. Mercury	1.01	< 0.001	7471
14. Molybdenum	3.11	< 0.100	6010
15. Nickel	11.9	< 0.050	6010
16. Selenium	13.4	< 0.050	6010
17. Zinc	17.3	< 0.050	6010
18. Sulfate	---	140.	300.0
19. Chloride	---	2.19	300.0
20. Sodium	---	8.58	6010
21. Acid Neut. Pot.	490,000.	---	C400-87

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5/13/99


Sample Location: BOTTOM ASH
Sample Date/Time: 04/20/99 (COMP.)

Sampled By: J.W.

MODULE 25 - COAL ASH AND LEACHATE ANALYSIS

PARAMETER	ASH DRY WT. (mg/kg)	SPLP LEACHATE (mg/l)	ANALYSIS METHOD
1. pH Solid	12.05	11.4	9045
2. Aluminum	14,400.	2.86	6010
3. Antimony	< 0.547	< 0.050	6010
4. Arsenic	2.78	< 0.050	6010
5. Barium	123.	0.076	6010
6. Boron	3.3	< 0.050	6010
7. Cadmium	< 0.547	< 0.050	6010
8. Chromium	10.5	< 0.050	6010
9. Copper	8.36	< 0.050	6010
10. Iron	5,650.	< 0.100	6010
11. Lead	12.4	< 0.050	6010
12. Manganese	54.8	< 0.500	6010
13. Mercury	< 0.109	< 0.001	7471
14. Molybdenum	0.617	< 0.100	6010
15. Nickel	4.41	< 0.050	6010
16. Selenium	< 0.547	< 0.050	6010
17. Zinc	6.53	< 0.050	6010
18. Sulfate	---	101.	300.0
19. Chloride	---	< 1.00	300.0
20. Sodium	---	4.29	6010
21. Acid Neut. Pot.	780,000.	---	C400-87

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12/08/99


Sample Location: FLY ASH
Sample Date/Time: 11/01/99 (COMP.)

Sampled By: J.W.

MODULE 25 - COAL ASH AND LEACHATE ANALYSIS

PARAMETER	ASH DRY WT. (mg/kg)	SPLP LEACHATE (mg/l)	ANALYSIS METHOD
1. pH Solid	10.6	10.3	9045
2. Aluminum	12,200.	1.45	6010
3. Antimony	< 0.718	< 0.050	6010
4. Arsenic	11.1	< 0.050	6010
5. Barium	122.	0.121	6010
6. Boron	3.4	0.213	6010
7. Cadmium	< 0.718	< 0.050	6010
8. Chromium	10.7	0.053	6010
9. Copper	17.7	< 0.050	6010
10. Iron	3,860.	< 0.100	6010
11. Lead	14.4	< 0.050	6010
12. Manganese	2,030.	< 0.500	6010
13. Mercury	< 0.144	< 0.001	7471
14. Molybdenum	1.49	< 0.100	6010
15. Nickel	6.12	< 0.050	6010
16. Selenium	3.79	< 0.050	6010
17. Zinc	10.8	< 0.020	6010
18. Sulfate	---	452.	300.0
19. Chloride	---	2.	300.0
20. Sodium	---	10.5	6010
21. Acid Neut. Pot.	920,000.	---	C400-87

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12/08/99

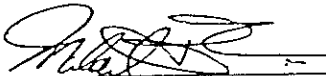
Sample Location: BOTTOM ASH
Sample Date/Time: 11/01/99 (COMP.)

Sampled By: J.W.

MODULE 25 - COAL ASH AND LEACHATE ANALYSIS

PARAMETER	ASH DRY WT. (mg/kg)	SPLP LEACHATE (mg/l)	ANALYSIS METHOD
1. pH Solid	12.1	11.4	9045
2. Aluminum	10,700.	1.64	6010
3. Antimony	< 0.526	< 0.050	6010
4. Arsenic	5.46	< 0.050	6010
5. Barium	126.	0.156	6010
6. Boron	2.6	0.116	6010
7. Cadmium	< 0.526	< 0.050	6010
8. Chromium	7.92	< 0.050	6010
9. Copper	10.4	< 0.050	6010
10. Iron	2,660.	< 0.100	6010
11. Lead	9.52	< 0.050	6010
12. Manganese	5,160.	< 0.500	6010
13. Mercury	< 0.105	< 0.001	7471
14. Molybdenum	1.18	< 0.100	6010
15. Nickel	4.33	< 0.050	6010
16. Selenium	< 0.526	< 0.050	6010
17. Zinc	9.26	< 0.020	6010
18. Sulfate	---	629.	300.0
19. Chloride	---	< 1.00	300.0
20. Sodium	---	6.68	6010
21. Acid Neut. Pot.	430,000.	---	C400-87

If there are any questions regarding this data, feel free to contact me.



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05/12/00

JIM WETZEL
% NORTHEASTERN POWER COMPANY
P.O. BOX 7
McADOO, PA 18237


Sample Location: FLY ASH
Sample Date/Time: 04/19/00 (----)

Sampled By: J.W.

MODULE 25 - COAL ASH AND LEACHATE ANALYSIS

PARAMETER	ASH DRY WT. (mg/kg)	SPLP LEACHATE (mg/l)	ANALYSIS METHOD
1. pH Solid	10.6	10.4	9045
2. Aluminum	26,100.	1.42	6010
3. Antimony	0.851	< 0.050	6010
4. Arsenic	22.5	< 0.050	6010
5. Barium	239.	0.118	6010
6. Boron	13.3	0.236	6010
7. Cadmium	< 0.631	< 0.050	6010
8. Chromium	27.0	< 0.050	6010
9. Copper	27.3	< 0.050	6010
10. Iron	8,210.	< 0.100	6010
11. Lead	31.6	< 0.050	6010
12. Manganese	186.	< 0.500	6010
13. Mercury	0.97	< 0.001	7471
14. Molybdenum	3.16	< 0.100	6010
15. Nickel	10.9	< 0.050	6010
16. Selenium	11.4	< 0.050	6010
17. Zinc	25.4	0.480	6010
18. Sulfate	---	388.	300.0
19. Chloride	---	2.32	300.0
20. Sodium	---	9.29	6010
21. Acid Neut. Pot.	470,000.	---	C400-87

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05/12/00


Sample Location: BOTTOM ASH
Sample Date/Time: 04/19/00 (----)

Sampled By: J.W.

MODULE 25 - COAL ASH AND LEACHATE ANALYSIS

PARAMETER	ASH DRY WT. (mg/kg)	SPLP LEACHATE (mg/l)	ANALYSIS METHOD
1. pH Solid	11.4	10.7	9045
2. Aluminum	9,950.	4.56	6010
3. Antimony	< 0.585	< 0.050	6010
4. Arsenic	3.10	< 0.050	6010
5. Barium	93.1	0.139	6010
6. Boron	3.9	0.163	6010
7. Cadmium	< 0.585	< 0.050	6010
8. Chromium	7.54	< 0.050	6010
9. Copper	5.65	< 0.050	6010
10. Iron	2,050.	< 0.100	6010
11. Lead	7.08	< 0.050	6010
12. Manganese	22.0	< 0.500	6010
13. Mercury	< 0.05	< 0.001	7471
14. Molybdenum	0.726	< 0.100	6010
15. Nickel	3.17	< 0.050	6010
16. Selenium	< 0.585	< 0.050	6010
17. Zinc	5.54	0.032	6010
18. Sulfate	---	88.2	300.0
19. Chloride	---	< 1.00	300.0
20. Sodium	---	7.17	6010
21. Acid Neut. Pot.	740,000.	---	C400-87

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11/25/00

Sample Location: FLY ASH
Sample Date/Time: 11/06/00 (A.M.)

Sampled By: J.W.

MODULE 25 - COAL ASH AND LEACHATE ANALYSIS

PARAMETER	ASH DRY WT. (mg/kg)	SPLP LEACHATE (mg/l)	ANALYSIS METHOD
1. pH Solid	10.6	---	9045
2. Aluminum	21,300.	2.56	6010
3. Antimony	< 0.746	< 0.050	6010
4. Arsenic	18.2	< 0.050	6010
5. Barium	199.	0.071	6010
6. Boron	2.91	0.118	6010
7. Cadmium	< 0.746	< 0.050	6010
8. Chromium	18.7	< 0.050	6010
9. Copper	26.4	< 0.050	6010
10. Iron	11,500.	< 0.100	6010
11. Lead	25.2	< 0.050	6010
12. Manganese	64.3	< 0.500	6010
13. Mercury	0.834	< 0.001	7470
14. Molybdenum	3.18	< 0.100	6010
15. Nickel	10.4	< 0.050	6010
16. Selenium	8.45	< 0.050	6010
17. Zinc	17.5	0.032	6010
18. Sulfate	---	321.	9038
19. Chloride	---	2.	9250
20. Sodium	---	9.87	6010
21. Acid Neut. Pot.	810,000.	---	C400-87

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11/25/00

Sample Location: BOTTOM ASH
Sample Date/Time: 11/06/00 (A.M.)

Sampled By: J.W.

MODULE 25 - COAL ASH AND LEACHATE ANALYSIS

PARAMETER	ASH DRY WT. (mg/kg)	SPLP LEACHATE (mg/l)	ANALYSIS METHOD
1. pH Solid	11.2	---	9045
2. Aluminum	11,100.	2.95	6010
3. Antimony	< 0.568	< 0.050	6010
4. Arsenic	3.11	< 0.050	6010
5. Barium	106.	0.117	6010
6. Boron	1.18	0.087	6010
7. Cadmium	< 0.568	< 0.050	6010
8. Chromium	7.45	< 0.050	6010
9. Copper	7.32	< 0.050	6010
10. Iron	5,940.	< 0.100	6010
11. Lead	9.92	< 0.050	6010
12. Manganese	23.5	< 0.500	6010
13. Mercury	< 0.455	< 0.001	7470
14. Molybdenum	0.841	< 0.100	6010
15. Nickel	5.23	< 0.050	6010
16. Selenium	< 0.568	< 0.050	6010
17. Zinc	8.68	0.037	6010
18. Sulfate	---	97.	9038
19. Chloride	---	< 1.	9250
20. Sodium	---	6.74	6010
21. Acid Neut. Pot.	1,280,000.	---	C400-87

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06/11/01

Sample Location: FLY ASH
Sample Date/Time: 05/01/01 (----)

Sampled By: J.W.

MODULE 25 - COAL ASH AND LEACHATE ANALYSIS

PARAMETER	ASH DRY WT. (mg/kg)	SPLP LEACHATE (mg/l)	ANALYSIS METHOD
1. pH Solid	10.5	---	9045
2. Aluminum	52,400.	1.34	6010
3. Antimony	< 0.7	< 0.050	6010
4. Arsenic	23.4	< 0.050	6010
5. Barium	411.	0.110	6010
6. Boron	14.9	0.173	6010
7. Cadmium	< 0.7	< 0.050	6010
8. Chromium	48.6	< 0.050	6010
9. Copper	49.3	< 0.050	6010
10. Iron	17,500.	< 0.100	6010
11. Lead	31.4	< 0.050	6010
12. Manganese	259.	< 0.500	6010
13. Mercury	0.787	< 0.001	7471
14. Molybdenum	4.34	< 0.100	6010
15. Nickel	19.1	< 0.050	6010
16. Selenium	13.9	< 0.050	6010
17. Zinc	38.4	0.026	6010
18. Sulfate	---	355.	300.0
19. Chloride	---	3.	300.0
20. Sodium	---	9.99	6010
21. Acid Neut. Pot.	720,000.	---	C400-87

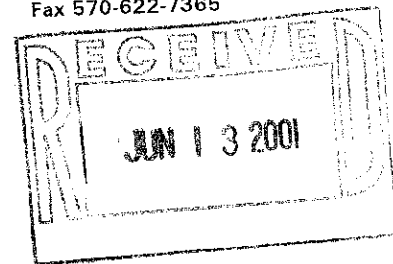
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06/11/01


Sample Location: BOTTOM ASH
Sample Date/Time: 05/01/01 (----)

Sampled By: J.W.

MODULE 25 - COAL ASH AND LEACHATE ANALYSIS

PARAMETER	ASH DRY WT. (mg/kg)	SPLP LEACHATE (mg/l)	ANALYSIS METHOD
1. pH Solid	11.5	---	9045
2. Aluminum	28,700.	5.43	6010
3. Antimony	< 0.6	< 0.050	6010
4. Arsenic	2.59	< 0.050	6010
5. Barium	208.	0.138	6010
6. Boron	4.47	0.105	6010
7. Cadmium	< 0.6	< 0.050	6010
8. Chromium	20.9	< 0.050	6010
9. Copper	11.1	< 0.050	6010
10. Iron	8,100.	< 0.100	6010
11. Lead	4.57	< 0.050	6010
12. Manganese	66.6	< 0.500	6010
13. Mercury	< 0.0447	< 0.001	7471
14. Molybdenum	0.884	< 0.100	6010
15. Nickel	7.42	< 0.050	6010
16. Selenium	< 0.559	< 0.050	6010
17. Zinc	10.9	0.023	6010
18. Sulfate	---	71.	300.0
19. Chloride	---	< 1.	300.0
20. Sodium	---	5.78	6010
21. Acid Neut. Pot.	1,230,000.	---	C400-87

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10/22/01

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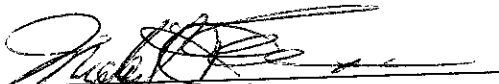
Sample Location: FLY ASH
Sample Date/Time: 10/01/01 (----)

Sampled By: J.W.

MODULE 25 - COAL ASH AND LEACHATE ANALYSIS

PARAMETER	ASH DRY WT. (mg/kg)	SPLP LEACHATE (mg/l)	ANALYSIS METHOD
1. pH Solid	10.4	---	9045
2. Aluminum	29600.	2.04	6010
3. Antimony	< 0.740	< 0.050	6010
4. Arsenic	22.9	< 0.050	6010
5. Barium	266.	0.083	6010
6. Boron	2.97	0.102	6010
7. Cadmium	< 0.740	< 0.050	6010
8. Chromium	32.0	< 0.050	6010
9. Copper	41.3	< 0.050	6010
10. Iron	14500.	< 0.100	6010
11. Lead	32.7	< 0.050	6010
12. Manganese	69.5	< 0.500	6010
13. Mercury	0.809	< 0.001	7471
14. Molybdenum	3.92	< 0.100	6010
15. Nickel	15.1	< 0.050	6010
16. Selenium	10.3	< 0.050	6010
17. Zinc	24.6	< 0.020	6010
18. Sulfate	---	297.	9038
19. Chloride	---	3.	9250
20. Sodium	---	7.46	6010
21. Acid Neut. Pot.	2,440,000.	---	C400-87

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10/22/01


Sample Location: BOTTOM ASH
Sample Date/Time: 10/01/01 (----)

Sampled By: J.W.

MODULE 25 - COAL ASH AND LEACHATE ANALYSIS

PARAMETER	ASH DRY WT. (mg/kg)	SPLP LEACHATE (mg/l)	ANALYSIS METHOD
1. pH Solid	11.4	---	9045
2. Aluminum	14200.	4.10	6010
3. Antimony	< 0.564	< 0.050	6010
4. Arsenic	2.64	< 0.050	6010
5. Barium	166.	0.112	6010
6. Boron	1.82	0.088	6010
7. Cadmium	< 0.564	< 0.050	6010
8. Chromium	11.1	< 0.050	6010
9. Copper	10.7	< 0.050	6010
10. Iron	6090.	< 0.100	6010
11. Lead	9.75	< 0.050	6010
12. Manganese	72.3	< 0.500	6010
13. Mercury	< 0.0451	< 0.001	7471
14. Molybdenum	0.938	< 0.100	6010
15. Nickel	4.71	< 0.050	6010
16. Selenium	< 0.564	< 0.050	6010
17. Zinc	11.4	< 0.020	6010
18. Sulfate	---	78.	9038
19. Chloride	---	< 1.	9250
20. Sodium	---	5.53	6010
21. Acid Neut. Pot.	620,000.	---	C400-87

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07/15/02

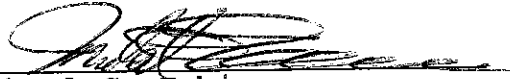
Sample Location: FLY ASH
Sample Date/Time: 06/14/02 (----)
Rec'd Date/Time: 06/20/02 (1245)

Sampled By: J.W.
Rec'd By: MCF

MODULE 25 - COAL ASH AND LEACHATE ANALYSIS

PARAMETER	ASH DRY WT. (mg/kg)	SPLP LEACHATE (mg/l)	ANALYSIS METHOD
1. pH Solid	10.90	---	SW9045B
2. Aluminum	34800.	2.14	SW6010B
3. Antimony	< 0.736	< 0.050	SW6010B
4. Arsenic	43.4	< 0.050	SW6010B
5. Barium	292.	0.647	SW6010B
6. Boron	5.82	0.939	SW6010B
7. Cadmium	< 0.736	< 0.050	SW6010B
8. Chromium	35.0	< 0.050	SW6010B
9. Copper	49.1	< 0.050	SW6010B
10. Iron	15200.	0.114	SW6010B
11. Lead	46.0	< 0.050	SW6010B
12. Manganese	62.7	< 0.500	SW6010B
13. Mercury	0.573	< 0.001	SW7471
14. Molybdenum	< 7.36	< 0.100	SW6010B
15. Nickel	17.3	< 0.050	SW6010B
16. Selenium	14.6	< 0.050	SW6010B
17. Zinc	20.9	1.11	SW6010B
18. Sulfate	---	436.	E300
19. Chloride	---	2.52	E300
20. Sodium	---	14.7	SW6010B
21. Acid Neut. Pot.	570000.	---	C400

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McADOO, PA 18237

07/15/02


Sample Location: BOTTOM ASH
Sample Date/Time: 06/14/02 (----)
Rec'd Date/Time: 06/20/02 (1245)

Sampled By: J.W.
Rec'd By: MCF

MODULE 25 - COAL ASH AND LEACHATE ANALYSIS

PARAMETER	ASH DRY WT. (mg/kg)	SPLP LEACHATE (mg/l)	ANALYSIS METHOD
1. pH Solid	10.80	---	SW9045B
2. Aluminum	18100.	2.21	SW6010B
3. Antimony	< 0.627	< 0.050	SW6010B
4. Arsenic	4.61	< 0.050	SW6010B
5. Barium	140.	0.551	SW6010B
6. Boron	2.32	0.727	SW6010B
7. Cadmium	< 0.627	< 0.050	SW6010B
8. Chromium	12.5	< 0.050	SW6010B
9. Copper	10.9	< 0.050	SW6010B
10. Iron	5780.	< 0.100	SW6010B
11. Lead	12.9	< 0.050	SW6010B
12. Manganese	32.5	< 0.500	SW6010B
13. Mercury	< 0.024	< 0.001	SW7471
14. Molybdenum	< 6.27	< 0.100	SW6010B
15. Nickel	5.80	< 0.050	SW6010B
16. Selenium	< 0.627	< 0.050	SW6010B
17. Zinc	9.28	0.863	SW6010B
18. Sulfate	---	231.	E300
19. Chloride	---	< 1.00	E300
20. Sodium	---	10.2	SW6010B
21. Acid Neut. Pot.	3670000.	---	C400

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MCADOO, PA 18237

11/22/02


Sample Location: FLY ASH
Sample Date/Time: 10/31/02 (----)
Rec'd Date/Time: 11/04/02 (1125)

Sampled By: J.W.
Rec'd By: MCF

MODULE 25 - COAL ASH AND LEACHATE ANALYSIS

PARAMETER	ASH DRY WT. (mg/kg)	SPLP LEACHATE (mg/l)	ANALYSIS METHOD
1. pH Solid	11.07	---	SW9045B
2. Aluminum	37900.	3.13	SW6010B
3. Antimony	< 0.606	< 0.050	SW6010B
4. Arsenic	45.4	< 0.050	SW6010B
5. Barium	286.	0.096	SW6010B
6. Boron	6.79	0.108	SW6010B
7. Cadmium	< 0.606	< 0.050	SW6010B
8. Chromium	35.8	< 0.050	SW6010B
9. Copper	53.6	< 0.050	SW6010B
10. Iron	13000.	< 0.100	SW6010B
11. Lead	50.8	< 0.050	SW6010B
12. Manganese	63.1	< 0.500	SW6010B
13. Mercury	0.310	< 0.001	SW7471
14. Molybdenum	< 6.06	< 0.100	SW6010B
15. Nickel	20.4	< 0.050	SW6010B
16. Selenium	18.0	< 0.050	SW6010B
17. Zinc	36.4	0.022	SW6010B
18. Sulfate	---	118.	E300
19. Chloride	---	1.14	E300
20. Sodium	---	12.7	SW6010B
21. Acid Neut. Pot.	1710000.	---	C400

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11/22/02


Sample Location: BOTTOM ASH
Sample Date/Time: 10/31/02 (----)
Rec'd Date/Time: 11/04/02 (1125)

Sampled By: J.W.
Rec'd By: MCF

MODULE 25 - COAL ASH AND LEACHATE ANALYSIS

PARAMETER	ASH DRY WT. (mg/kg)	SPLP LEACHATE (mg/l)	ANALYSIS METHOD
1. pH Solid	11.85	---	SW9045B
2. Aluminum	18000.	0.620	SW6010B
3. Antimony	< 0.548	< 0.050	SW6010B
4. Arsenic	6.73	< 0.050	SW6010B
5. Barium	149.	0.179	SW6010B
6. Boron	2.37	0.100	SW6010B
7. Cadmium	< 0.548	< 0.050	SW6010B
8. Chromium	17.0	< 0.050	SW6010B
9. Copper	10.5	< 0.050	SW6010B
10. Iron	8550.	< 0.100	SW6010B
11. Lead	15.1	< 0.050	SW6010B
12. Manganese	44.7	< 0.500	SW6010B
13. Mercury	< 0.022	< 0.001	SW7471
14. Molybdenum	< 5.48	< 0.100	SW6010B
15. Nickel	7.89	< 0.050	SW6010B
16. Selenium	< 0.548	< 0.050	SW6010B
17. Zinc	17.3	0.035	SW6010B
18. Sulfate	---	80.8	E300
19. Chloride	---	< 1.00	E300
20. Sodium	---	8.85	SW6010B
21. Acid Neut. Pot.	2480000.	---	C400

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06/30/03

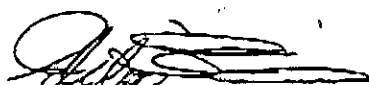
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Sample Location: FLY ASH
Sample Date/Time: 06/11/03 (----)
Rec'd Date/Time: 06/12/03 (1305)Sampled By: J.W.
Rec'd By: MCF

MODULE 25 - COAL ASH AND LEACHATE ANALYSIS

PARAMETER	ASH DRY WT. (mg/kg)	SPLP LEACHATE (mg/l)	ANALYSIS METHOD
1. pH Solid	10.88	---	SW9045B
2. Aluminum	39600.	1.19	SW6010B
3. Antimony	< 0.677	< 0.050	SW6010B
4. Arsenic	22.4	< 0.050	SW6010B
5. Barium	288.	0.177	SW6010B
6. Boron	7.01	0.214	SW6010B
7. Cadmium	< 0.677	< 0.050	SW6010B
8. Chromium	34.7	0.085	SW6010B
9. Copper	37.4	< 0.050	SW6010B
10. Iron	8960.	< 0.100	SW6010B
11. Lead	35.6	< 0.050	SW6010B
12. Manganese	51.1	< 0.500	SW6010B
13. Mercury	0.623	< 0.001	SW7471
14. Molybdenum	< 6.77	< 0.100	SW6010B
15. Nickel	15.4	< 0.050	SW6010B
16. Selenium	12.7	< 0.050	SW6010B
17. Zinc	18.7	0.050	SW6010B
18. Sulfate	---	148.	E300
19. Chloride	---	2.08	E300
20. Sodium	---	11.0	SW6010B
21. Acid Neut. Pot.	494000.	---	C400

If there are any questions regarding this data, feel free to contact me.



Michael C. Fabian
Laboratory Director

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P.O. BOX 7
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06/30/03

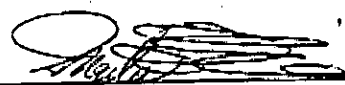
COPY

Sample Location: BOTTOM ASH
Sample Date/Time: 06/11/03 (----)
Rec'd Date/Time: 06/12/03 (1305)Sampled By: J.W.
Rec'd By: MCF

MODULE 25 - COAL ASH AND LEACHATE ANALYSIS

PARAMETER	ASH DRY WT. (mg/kg)	SPLP LEACHATE (mg/l)	ANALYSIS METHOD
1. pH Solid	11.11	---	SW9045B
2. Aluminum	15100.	1.56	SW6010B
3. Antimony	< 0.551	< 0.050	SW6010B
4. Arsenic	2.48	< 0.050	SW6010B
5. Barium	137.	0.179	SW6010B
6. Boron	2.37	0.266	SW6010B
7. Cadmium	< 0.551	< 0.050	SW6010B
8. Chromium	10.4	< 0.050	SW6010B
9. Copper	7.54	< 0.050	SW6010B
10. Iron	4010.	0.136	SW6010B
11. Lead	9.41	< 0.050	SW6010B
12. Manganese	25.3	< 0.500	SW6010B
13. Mercury	< 0.022	< 0.001	SW7471
14. Molybdenum	< 5.51	< 0.100	SW6010B
15. Nickel	5.41	< 0.050	SW6010B
16. Selenium	< 0.551	< 0.050	SW6010B
17. Zinc	7.10	0.077	SW6010B
18. Sulfate	---	144.	E300
19. Chloride	---	< 1.00	E300
20. Sodium	---	8.93	SW6010B
21. Acid Neut. Pot.	2470000.	---	C400

If there are any questions regarding this data, feel free to contact me.



Michael C. Fabian
Laboratory Director



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Certificate of Analysis

Page 1 of 2

Customer: Nepco
 P.O. Box 7
 McAdoo, PA 18237

Report Date: December 10, 2003

Material Tested: Ash HawkMtn WO #: 0310-00604-001
 Date Sampled: 10/30/2003 Sampler: JR/HML
 Date Received: 10/30/2003 Sample Point ID: 50/50
 Client Sample ID: Nepco 50/50 Fly Ash/Bottom Ash, Semi Annual Ash Analysis

Test Name	Test Results	Method	Technician	Analysis Date
Module 25A-Ash Quality				
MOD25, Total Analysis				
pH, Solid	9.49 su	SW846-9040	AMM	11/03/2003
Aluminum, Dry Weight	34800 mg/kg	SW846-6010B	SKS	11/11/2003
Antimony, Dry Weight	<2.0 mg/kg	SW846-6010B	SKS	11/11/2003
Arsenic, Dry Weight	11.3 mg/kg	SW846-7060A	SKS	11/12/2003
Barium, Dry Weight	275 mg/kg	SW846-6010B	SKS	11/11/2003
Boron, Dry Weight	49 mg/kg	SW846-6010B	SKS	11/11/2003
Cadmium, Dry Weight	1.0 mg/kg	SW846-6010B	SKS	11/11/2003
Calcium, Dry Weight	12700 mg/kg	SW846-6010B	SKS	11/11/2003
Chromium, Dry Weight	39 mg/kg	SW846-6010B	SKS	11/11/2003
Copper, Dry Weight	36 mg/kg	SW846-6010B	SKS	11/11/2003
Iron, Dry Weight	19100 mg/kg	SW846-6010B	SKS	11/11/2003
Lead, Dry Weight	66 mg/kg	SW846-6010B	SKS	11/11/2003
Manganese, Dry Weight	69 mg/kg	SW846-6010B	SKS	11/11/2003
Mercury, Dry Weight	0.2 mg/kg	SW846-7471A	AMM	11/20/2003
Molybdenum, Dry Weight	<1.00 mg/kg	SW846-6010B	SKS	11/11/2003
Nickel, Dry Weight	18 mg/kg	SW846-6010B	SKS	11/11/2003
Selenium, Dry Weight	8.5 mg/kg	SW846-7740	SKS	11/12/2003
Zinc, Dry Weight	34 mg/kg	SW846-6010B	SKS	11/11/2003
Acid Neutralization Potent	55 **	EPA 600/2-78-054	AMM	11/07/2003
MOD25, SPLP Leachate				
SPLP Fluid #1, pkg			SKS	11/04/2003
SPLP, fluid #1	10.60 su, ending	SW846-1312	SKS	11/04/2003
Aluminum, leachate	4.24 mg/l	SW846-6010B	SKS	11/18/2003
Arsenic, Leachate	0.013 mg/l	SW846-7060A	SKS	11/14/2003
Antimony, Leachate, Furnace	<0.04 mg/l	SW846-6010B	SKS	11/17/2003
Barium, Leachate	0.03 mg/l	SW846-6010B	SKS	11/17/2003
Boron, Leachate	0.05 mg/l	SW846-6010B	SKS	11/18/2003
Cadmium, Leachate	<0.005 mg/l	SW846-6010B	SKS	11/17/2003
Chromium, Leachate	0.01 mg/l	SW846-6010B	SKS	11/17/2003
Copper, Leachate	0.01 mg/l	SW846-6010B	SKS	11/17/2003
Iron, Leachate	0.05 mg/l	SW846-6010B	SKS	11/17/2003
Lead, Leachate	0.05 mg/l	SW846-6010B	SKS	11/17/2003
Manganese, Leachate	<0.005 mg/l	SW846-6010B	SKS	11/17/2003
Mercury, Leachate	<0.0002 mg/l	SW846-7470A	AMM	11/06/2003





201 West Clay Avenue / West Hazleton, PA 18202
 PHONE (570) 455-6011 • FAX (570) 455-6321

Customer: Nepco
 P.O. Box 7
 McAdoo, PA 18237

Report Date: December 10, 2003

Material Tested: Ash
 Date Sampled: 10/30/2003
 Date Received: 10/30/2003
 Client Sample ID: Nepco 50/50 Fly Ash/Bottom Ash. Semi Annual Ash Analysis

HawkMtn WO #: 0310-00604-001
 Sampler: JR/HML
 Sample Point ID: 50/50

Test Name	Test Results	Method	Technician	Analysis Date
Molybdenum, Leachate	<0.005 mg/l	SW846-6010B	SKS	11/17/2003
Nickel, Leachate	<0.010 mg/l	SW846-6010B	SKS	11/17/2003
Selenium, Leachate	0.010 mg/l	SW846-7740	SKS	11/14/2003
Zinc, Leachate	0.01 mg/l	SW846-6010B	SKS	11/17/2003
SPLP Fluid #3, Water	10.70 su, ending	SW846-1312	SKS	11/05/2003
Sodium, Leachate	1.80 mg/l	SW846-6010B	SKS	11/18/2003
Anions, Scan, Leachate			AL	11/05/2003
Fluoride	0.73 mg/l	EPA 300 HPLC IC	AL	11/05/2003
Chloride, Leachate	1.86 mg/l	EPA 300 HPLC IC	AL	11/05/2003
Nitrite, Leachate	<0.02 mg/l	EPA 300 HPLC IC	AL	11/05/2003
Nitrate, Leachate	0.36 mg/l	EPA 300 HPLC IC	AL	11/05/2003
Sulfate, Leachate	289 mg/l	EPA 300 HPLC IC	AL	11/05/2003
Proctor Density			WS	11/05/2003
Optimum Water Content	20.00 %		WS	11/05/2003
Max Dry Density	91.90 lb/cu.ft.		WS	11/05/2003
Density 90% Dry	82.71 lb/cu.ft.		WS	11/05/2003
0.375 in, 9.5mm P	99.2 %	ASTM D 310, ASTM	WS	11/05/2003
No.4, 4 mesh, 4.75mm, P	95.7 %	ASTM D 310, ASTM	WS	11/05/2003
No.10, 9 mesh, 2.00mm, P	83.8 %	ASTM D 310, ASTM	WS	11/05/2003
No.40, 35 mesh, 425um, P	50.5 %	ASTM D 310, ASTM	WS	11/05/2003
No.100, 100 mesh, 150um, P	22.5 %	ASTM D 310, ASTM	WS	11/05/2003
No.200, 200 mesh, 75um P	9.8 %	ASTM D 310, ASTM	WS	11/05/2003

Andrea Mengel
 Andrea Mengel, Enviro Lab Coordinator

Jeff Grifflman
 Jeff Grifflman, Lab Director

