CITY OF ROME

TANNERY ROAD LANDFILL

2001 ANNUAL

Prepared for:

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1.0 INTRODUCTION

This document presents the 2001 annual report for the post closure operations, including maintenance and monitoring activities for the closed City of Rome Landfill located on Tannery Road in the City of Rome, Oneida County, New York. Final closure of the landfill was completed in September 1997 and in January 1999 the New York State Department of Environmental Conservation (NYSDEC) approved the closure certification report.

The post closure maintenance and monitoring activities were performed pursuant to the Operation, Maintenance and Monitoring Plan (Revised October 19, 1999) that was approved by the NYSDEC. This annual report covers the period from February 2001 through January 2002.

Pursuant to the approved Operation, Maintenance and Monitoring Plan (O&M), this annual report provides the following information:

- The results of all ground water and leachate quality analytical data.
- The amount of ground water/leachate collected from the recovery wells.
- Water level monitoring and ground water contour maps for March, June, September and December 2001.
- Monthly Inspection Data.
- Significant maintenance or repair issues and their resolution and any deviations from the approved O&M procedures.

2.0 GROUND WATER AND LEACHTE ANALYTICAL DATA

Ground water samples were collected in March, June, September and December from monitoring wells MW-1S, MW-2S, MW-3S, MW-4S, MW-5S, MW-7D and groundwater/leachate well MW-12. The June, March and September samples were analyzed for the NYSDEC Part 360 Routine parameters. The samples collected in December 2001 were analyzed for the Part 360 baseline parameters. Ground water sample collection was performed following the procedures specified in the NYSDEC approved O&M manual.

Analytical results have been previously submitted to the NYSDEC in the quarterly monitoring reports. Tables summarizing the analytical data for each quarter are provided in Appendix A. Concentrations which exceed the New York State ground water standard are presented in a bold font. Laboratory reporting sheets are presented in Appendix B.

The ground water analytical data from 2001 demonstrates that ground water in the vicinity of monitoring wells MW-3S, MW-4S and MW-7D continue to exhibit elevated concentrations of landfill related constituents. Ground water from monitoring well MW-3S consistently exhibits concentrations of ammonia, sodium, and total dissolved solids (TDS) that are above both the NYSDEC ground water standards and upgradient MW-9S concentrations. Ground water from

monitoring well MW-7D consistently exhibits ammonia, and TDS concentrations and monitoring well MW-4S ammonia values that are above ground water standards and upgradient MW-9S concentrations. The MW-7D December 2001 baseline ground water volatile organic sample exhibited chlorobenzene, benzene and xylene concentrations that were above the respective ground water standards.

3.0 GROUND WATER ELEVATION DATA

Consistent with the O&M plan, ground water elevation data were measured monthly from monitoring wells MW-1S, MW-2S, MW-3S, MW-4S, MW-5S, MW-7S, MW-9S, piezometer PZ-1 and leachate well MW-12. Because of obstructions in leachate wells MW-10 and MW-11, ground water elevations were not measured at either of these locations. Reconstruction of monitoring wells MW-10 and MW-11 was completed in October 2001 and the measuring point elevation (top of inner casing, feet above mean sea level) was surveyed in February 2001. Water levels have been taken since completion of construction. Summaries of the 2001 ground water elevation data are provided in Appendix C. Ground water contour maps for March, June, September and December 2001 are provided in the attached map pockets.

The ground water elevation data demonstrate that from January through April and from September through December, water level elevations in monitoring wells MW-2S, MW-3S, MW-4S and MW-5S are consistently higher than the MW-12 landfill leachate monitoring well, indicating a possible inward gradient.

The ground water elevations in monitoring wells MW-1S, MW-7S and piezometer PZ-1 are consistently lower than landfill leachate well MW-12. The data indicate that there is no inward gradient toward the landfill from the area east of the landfill. The MW-1S ground water data indicate that the landfill has not had an impact on ground water quality in the vicinity of MW-1S.

4.0 SITE INSPECTIONS

4.1 Weekly Site Inspections

Weekly landfill inspections were performed by City of Rome personnel in accordance with the procedures detailed in the O&M manual. The weekly inspections included evaluation of the ground water/leachate pumping operation and general site security.

4.2 Monthly Inspections

Delaware Engineering performed monthly landfill inspections. The inspections included general review of landfill cap conditions, general site conditions, evaluation and recording of data for the ground water/leachate pumping system, collection of ground water levels and operability of the landfill flares and passive gas vents. In March, June, September and December, ground water samples were collected and submitted for analysis as discussed in Section 2.0. The annual gas vent inspection and hydrogen sulfide measurements were conducted on August 30, 2001. Copies of the completed inspection forms are provided in Appendix D.

During most of 2001, obstructions in leachate monitoring wells MW-10 and MW-11 prevented the collection of ground water elevation data. As Previously stated construction of MW-10 and MW-11 was completed in October 2001 with the exception of a survey (feet above mean sea level). Starting in March of 2002 ground water samples will be collected from monitoring well MW-10. Recovery well RW-4, which was not operational in 2001, has been repaired and it is anticipated that the well will be operational beginning in early 2002.

5.0 GROUND WATER / LEACHATE PUMPING SYSTEM

For each recovery well, readings from the flow totalizers in the meter pit were recorded during the monthly inspections. Leachate flows for each recovery well for the period between January 12, 2001 to January 16, 2002 are presented below. Monthly summaries of the flow data are provided in Appendix E.

RW-1	596,400 gallons
RW-2	1,179,900 gallons
RW-3	297,500 gallons
RW-4	0 gallons

6.0 RECOMMENDATIONS

As discussed in Section 3.0, ground water from monitoring wells MW-3S, MW-4S and MW-7S have consistently exhibited ammonia, sodium and TDS value concentrations that exceed both the NYSDEC ground water standards and upgradient MW-9S concentrations. Ground water quality adjacent to the landfill has been adequately characterized. The landfill has been capped and leachate is actively pumped from the waste mass via the on-site recovery wells. Ground water quality is not expected to significantly change on a quarterly basis. Therefore, annual collection and analysis of ground water from the on-site ground water monitoring wells for the Part 360 baseline parameters would provide adequate ground water monitoring. Ground water elevation data will continue to be obtained on a monthly basis.

APPENDIX A

ANALYTICAL DATA SUMMARY TABLES

Table 1
March 2001Ground Water Analytical Data
Tannery Road Landfill
Rome, New York

Sample Location	MW-1S	MW-3S	MW-4S	X-1	MW-5S	MW-7D	MW-9S	MW-12	NYSDEC Ground Water Standard/GV
Leachate Indicators (mg/L)									
Ammonia-Nitrogen	0.073	**130**	**7.4**	**46**	1.3	**46**	0.28	**200**	2
Total Kjeldahl Nitrogen	0.62	150	8.2	51	1.8	52	1	210	NS
Biochemical Oxygen Demand (BOD_5)	NA	NA	NA	NA	NA	NA	NA	NA	NS
Total Phenols	<0.002	**0.0025**	<0.002	**0.0057**	<0.002	**0.0026**	<0.002	**0.02**	0.001
Sulfate	6.7	33	11	34	42	35	4.2	2.3	250
Chloride	2.9	220	7.1	75	5	74	3.4	**320**	250
Bromide	<0.1	1.2	<0.1	0.95	<0.1	0.93	<0.1	**4.2**	2 (GV)
Nitrate-Nitrogen	0.15	<0.1	<0.1	<0.1	<0.1	0.13	<0.1	0.17	10
Chemical Oxygen Demand	36	350	110	140	37	140	96	360	NS
Total Alkalinity	1.4	1200	57	480	200	430	230	1300	NS
Total Organic Carbon	16	120	42	51	13	49	35	130	NS
Total Dissolved Solids	14	**1500**	170	**670**	300	**670**	360	**1800**	500
Total Hardness	10	320	31	270	200	280	1200	620	NS
Total Metals (mg/L)									
Cadmium	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.005
Calcium	1.9	87	7.7	68	64	70	300	110	NS
Iron	**8.8**	**34**	**4.9**	**40**	**15**	**41**	**110**	**58**	0.3
Lead	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	**0.042**	<0.01	0.025
Magnesium	1.3	25	3	24	10	25	**100**	**82**	35 (GV)
Manganese	0.11	**1.1**	**0.3**	**0.78**	**2.6**	**0.8**	**5**	**0.35**	0.3
Potassium	1.1	170	16	45	8.8	43	14	190	NS
Sodium	1.2	**320**	7.4	**54**	3.8	**54**	**55**	**340**	20
Field Parameters									
pH (units)	**6.18**	**6.42**	**5.81**		**6.26**	**6.2**	7.2	6.56	6.5-8.5
Conductivity (umhos/cm)	23	3,130	204		456	1,350	419	4,080	NS
Turbidity (NTU)	**316**	**35**	**29**		**35**	**97**	**>999**	**150**	5
Temperature (C)	3.9	5	5.3		6	8.9	6.1	11.7	NS

Notes:

1) Results in **bold** typeface indicate that the result exceeds the applicable standard. See Table 2 for a summary of these results.

2) NS indicates No Standard.

3) GV indicates that the standard listed is a Guidance Value.

Table 1
June 2001 Ground Water Analytical Data
Tannery Road Landfill
Rome, New York

Sample Location	MW-1S	MW-3S	MW-4S	MW-5S	MW-7D	MW-9S	MW-12	NYSDEC Ground Water Standard/GV
Leachate Indicators (mg/L)								
Ammonia-Nitrogen	<0.03	**110**	**9.8**	0.34	**40**	0.3	**190**	2
Total Kjeldahl Nitrogen	0.62	130	12	0.67	43	1.3	190	NS
Biochemical Oxygen Demand (BOD_5)	<4	24	12	<4	13	<4	5.5	NS
Total Phenols	<0.002	**0.0032**	**0.003**	<0.002	**0.0034**	<0.002	**0.024**	0.001
Sulfate	6.8	32	17	34	47	2.9	2.8	250
Chloride	2.4	210	8.7	2.9	62	3.2	**330**	250
Bromide	<0.1	1.1	0.12	<0.1	0.74	0.17	**3.9**	2 (GV)
Nitrate-Nitrogen	0.15	0.15	<0.1	0.22	<0.1	0.18	0.26	10
Chemical Oxygen Demand	26	180	98	5.2	120	120	170	NS
Total Alkalinity	2	1200	91	50	470	260	1700	NS
Total Organic Carbon	11	130	43	7.2	44	30	130	NS
Total Dissolved Solids	56	**1500**	200	120	**570**	380	**1700**	500
Total Hardness	8.6	360	40	78	270	300	620	NS
Total Metals (mg/L)								
Boron	<0.5	**1.2**	<0.5	<0.5	<0.5	<0.5	**2.3**	1
Cadmium	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.005
Calcium	1.7	99	9.6	23	66	88	100	NS
Iron	**5.6**	**34**	**6.6**	**10**	**42**	**21**	**56**	0.3
Lead	<0.01	<0.01	<0.01	<0.01	0.013	0.012	<0.01	0.025
Magnesium	1	28	3.9	5.1	25	19	**86**	35 (GV)
Manganese	0.093	**1.2**	**0.37**	**0.37**	**0.76**	**1.1**	**0.35**	0.3
Potassium	<1	170	24	24	39	4.2	210	NS
Sodium	<1	**370**	13	13	**56**	**48**	**450**	20
Field Parameters								
pH (units)	**4.95**	**6.3**	**5.7**	6.5	**5.96**	6.94	6.54	6.5-8.5
Conductivity (umhos/cm)	34	2,870	247	163	1,200	365	4	NS
Turbidity (NTU)	**186**	**31**	**24**	**42**	**112**	**704**	**432**	5
Temperature (C)	14.7	14	15.6	14.6	12.7	11.9	18.4	NS

Notes:

1) Results in **bold** typeface indicate that the result exceeds the applicable standard. See Table 2 for a summary of these results.

2) NS indicates No Standard.

3) GV indicates that the standard listed is a Guidance Value.

Table 1
September 2001 Ground Water Analytical Data
Tannery Road Landfill
Rome, New York

Sample Location	MW-1S	MW-3S	MW-4S	MW-5S	MW-7D	MW-9S	MW-12	NYSDEC Ground Water Standard/GV
Leachate Indicators (mg/L)								
Ammonia-Nitrogen	0.089	**95**	**32**	1.4	**47**	0.39	**240**	2
Total Kjeldahl Nitrogen	0.6	100	34	1.6	50	1	230	NS
Biochemical Oxygen Demand (BOD_5)	<4	16	25	4.7	14	4.2	40	NS
Total Phenols	<0.002	**0.0022**	**0.0024**	<0.002	**0.0039**	<0.002	**0.021**	0.001
Sulfate	17	66	49	53	45	3.1	3	250
Chloride	3.8	110	43	6	46	3.6	**460**	250
Bromide	<0.1	0.5	0.24	0.13	0.75	0.12	**3.9**	2 (GV)
Nitrate-Nitrogen	0.16	<0.1	<0.1	<0.1	<0.1	<0.1	0.16	10
Chemical Oxygen Demand	34	410	160	43	120	72	31	NS
Total Alkalinity	12	930	170	190	430	240	1800	NS
Total Organic Carbon	13	84	61	13	43	29	140	NS
Total Dissolved Solids	190	**1100**	300	240	480	240	**1700**	500
Total Hardness	20	290	56	230	260	420	660	NS
Total Metals (mg/L)								
Boron	<0.5	**1.3**	0.65	<0.5	0.83	<0.5	**2.8**	1
Cadmium	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.005
Calcium	5.7	82	14	72	64	120	120	NS
Iron	**7.8**	**26**	**6.9**	**15**	**39**	**30**	**65**	0.3
Lead	<0.01	<0.01	<0.01	<0.01	0.014	0.012	<0.01	0.025
Magnesium	1.5	20	4.9	12	25	29	**90**	35 (GV)
Manganese	0.19	**0.95**	**0.48**	**2.5**	**0.76**	**1.5**	**0.45**	0.3
Potassium	1.2	140	33	9.4	41	7.2	200	NS
Sodium	7.5	**220**	**46**	4.8	**59**	**33**	**400**	20
Field Parameters								
pH (units)	**5.89**	6.68	**6.07**	6.75	**6.39**	6.65	6.75	6.5-8.5
Conductivity (umhos/cm)	62	2,150	555	433	1,090	390	4,100	NS
Turbidity (NTU)	**88**	**56**	**19**	**68**	**152**	**241**	**315**	5
Temperature (C)	14.8	12.5	12.7	11.6	11.2	11.4	14.1	NS

Notes:

1) Results in **bold** typeface indicate that the result exceeds the applicable standard. See Table 2 for a summary of these results.
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3) GV indicates that the standard listed is a Guidance Value.

Table 1
December 2001 Ground Water Analytical Data
Tannery Road Landfill
Rome, New York

Sample Location	MW-1S	MW-3S	MW-4S	X-1	MW-5S	MW-7D	MW-9S	MW-12	NYSDEC Ground Water Standard/GV
Leachate Indicators (mg/L)									
Total Cyanide	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.2
Ammonia-Nitrogen	<0.03	**130**	**3.1**	**41**	0.43	**39**	0.21	**270**	2
Total Kjeldahl Nitrogen	0.23	120	4.6	42	0.62	39	0.7	250	NS
Biochemical Oxygen Demand (BOD_5)	<4	12	<10	<10	<4	<20	<4	25	NS
Total Phenols	<0.002	**0.0034**	<0.002	**0.0029**	<0.002	**0.0042**	<0.002	**0.02**	0.001
Chloride	2.5	150	5.6	58	3.2	56	3.3	**330**	250
Bromide	<0.1	0.79	<0.1	0.9	<0.1	0.64	<0.1	**4.3**	2 (GV)
Sulfate	6.2	79	27	53	36	52	8.6	<1	250
Nitrate-Nitrogen	<0.1	<0.1	<0.1	0.15	<0.1	<0.1	0.17	<0.1	10
Chemical Oxygen Demand	14	230	88	120	23	120	75	240	NS
Total Alkalinity	1.9	860	23	400	68	390	210	1800	NS
Chromium Hexavalent	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.05
Total Organic Carbon	11.3	90	33	46	9.6	47	32	120	NS
Total Dissolved Solids	<4	**1200**	180	**640**	200	**650**	430	**2000**	500
Color (PCU)	**50**	**750**	**300**	**1200**	**75**	**850**	**600**	**750**	15
Total Hardness	9.8	260	42	260	110	250	390	580	NS
Total Metals (mg/L)									
Boron	<0.5	**1.6**	<0.5	**1**	<0.5	<0.5	<0.5	**3**	1
Potassium	<1	150	14	36	5.6	37	4.6	220	NS
Sodium	1.2	**250**	5.7	**51**	1.4	**50**	**43**	**280**	20
Iron	**3.2**	**30**	**6.6**	**40**	**6.1**	**40**	**24**	**54**	0.3
Manganese	0.07	**0.91**	**0.38**	**0.72**	**1.4**	**0.7**	**1.5**	**0.4**	0.3
Magnesium	<1	20	4	23	6	22	28	**80**	35 (GV)
Lead	<1	<0.01	<0.01	<0.01	<0.01	<0.01	0.011	0.018	0.025
Cadmium	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.005
Aluminum	5	1	1.1	1.7	0.41	1.2	12	1.8	NS
Calcium	2.2	73	10	66	35	65	110	100	NS
Antimony	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.003
Arsenic	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.016	0.013	0.025

Table 1
December 2001 Ground Water Analytical Data
Tannery Road Landfill
Rome, New York

Sample Location	MW-1S	MW-3S	MW-4S	X-1	MW-5S	MW-7D	MW-9S	MW-12	NYSDEC Ground Water Standard/GV
Beryllium	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.003(GV)
Barium	<0.2	0.61	<0.2	0.43	<0.2	0.43	<0.2	0.4	1
Chromium	<0.01	0.015	<0.01	<0.01	<0.01	<0.01	0.02	0.012	0.05
Copper	<0.01	<0.01	<0.01	<0.01	<0.01	0.022	0.036	<0.01	0.2
Nickel	<0.01	0.019	<0.01	<0.01	<0.01	<0.01	0.027	0.031	0.1
Selenium	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.01
Silver	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.05
Thallium	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.1	0.0005(GV)
Zinc	0.04	0.025	0.012	0.042	0.013	0.036	0.063	0.071	2(GV)
Cobalt	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.012	NS
Vanadium	<0.01	0.042	<0.01	0.014	<0.01	0.013	0.023	0.02	NS
Mercury	<0.0002	**0.00698**	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	0.00027	0.0007
Field Parameters									
pH (units)	**6.23**	6.71	**6.07**		6.84	**6.31**	7.39	6.65	6.5-8.5
Conductivity (umhos/cm)	37	2,680	177		227	1,290	408	5,090	NS
Turbidity (NTU)	**90**	**42**	**18**		**36**	**53**	**466**	**125**	5
Temperature (C)	6.7	7.6	7.7		7.7	10.1	8.2	11.9	NS
Volatiles (ug/L)									
Acetone	<10	<10	<10	<10	<10	<10	<10	<10	50(GV)
Acrylonitrile	<20	<20	<20	<20	<20	<20	<20	<20	5
Benzene	<5	<5	<5	**16**	<5	**17**	<5	**33**	1
Bromochloromethane	<5	<5	<5	<5	<5	<5	<5	<5	5
Bromodichloromethane	<5	<5	<5	<5	<5	<5	<5	<5	50(GV)
Bromoform	<5	<5	<5	<5	<5	<5	<5	<5	50(GV)
Bromomethane	<5	<5	<5	<5	<5	<5	<5	<5	5
2-Butanone (MEK)	<10	<10	<10	<10	<10	<10	<10	<10	50(GV)
Carbon disulfide	<5	<5	<5	<5	<5	<5	<5	<5	60 (GV)
Carbon tetrachloride	<5	<5	<5	<5	<5	<5	<5	<5	5
Chlorobenzene	<5	<5	<5	**5.9**	<5	**5.8**	<5	<5	5

Table 1
December 2001 Ground Water Analytical Data
Tannery Road Landfill
Rome, New York

Sample Location	MW-1S	MW-3S	MW-4S	X-1	MW-5S	MW-7D	MW-9S	MW-12	NYSDEC Ground Water Standard/GV
Chloroethane	<5	<5	<5	<5	<5	<5	<5	<5	5
Chloromethane	<5	<5	<5	<5	<5	<5	<5	<5	5
Chloroform	<5	<5	<5	<5	<5	<5	<5	<5	7
Dibromochloromethane	<5	<5	<5	<5	<5	<5	<5	<5	5
1,2-Dibromo-3-chloropropane	<5	<5	<5	<5	<5	<5	<5	<5	0.04
1,2-Dibromoethane (EDB)	<5	<5	<5	<5	<5	<5	<5	<5	5
Dibromomethane	<5	<5	<5	<5	<5	<5	<5	<5	5
1,2-Dichlorobenzene	<5	<5	<5	<5	<5	<5	<5	<5	3
1,4-Dichlorobenzene	<5	<5	<5	<5	<5	<5	<5	<5	3
trans-1,4-Dichloro-2-butene	<50	<50	<50	<50	<50	<50	<50	<50	5
1,1-Dichloroethane	<5	<5	<5	<5	<5	<5	<5	<5	5
1,2-Dichloroethane	<5	<5	<5	<5	<5	<5	<5	<5	0.6
1,1-Dichloroethene	<5	<5	<5	<5	<5	<5	<5	<5	5
cis-1,2-Dichloroethene	<5	<5	<5	<5	<5	<5	<5	<5	5
trans-1,2-Dichloroethene	<5	<5	<5	<5	<5	<5	<5	<5	5
1,2-Dichloropropane	<5	<5	<5	<5	<5	<5	<5	<5	1
cis-1,3-Dichloropropene	<5	<5	<5	<5	<5	<5	<5	<5	5
trans-1,3-Dichloropropene	<5	<5	<5	<5	<5	<5	<5	<5	5
Ethyl benzene	<5	<5	<5	<5	<5	<5	<5	<5	5
2-Hexanone	<10	<10	<10	<10	<10	<10	<10	<10	50(GV)
Iodomethane	<20	<20	<20	<20	<20	<20	<20	<20	5
Methylene chloride	<10	<10	<10	<10	<10	<10	<10	<10	5
4-Methyl-2-pentanone	<10	<10	<10	<10	<10	<10	<10	<10	50 (GV)
Styrene	<5	<5	<5	<5	<5	<5	<5	<5	50
1,1,1,2-Tetrachloroethane	<5	<5	<5	<5	<5	<5	<5	<5	5
1,1,2,2-Tetrachloroethane	<5	<5	<5	<5	<5	<5	<5	<5	5
Tetrachloroethene	<5	<5	<5	<5	<5	<5	<5	<5	5
Toluene	<5	<5	<5	<5	<5	<5	<5	<5	5
1,1,1-Trichloroethane	<5	<5	<5	<5	<5	<5	<5	<5	5
1,1,2-Trichloroethane	<5	<5	<5	<5	<5	<5	<5	<5	1
Trichloroethene	<5	<5	<5	<5	<5	<5	<5	<5	5

Table 1
December 2001 Ground Water Analytical Data
Tannery Road Landfill
Rome, New York

Sample Location	MW-1S	MW-3S	MW-4S	X-1	MW-5S	MW-7D	MW-9S	MW-12	NYSDEC Ground Water Standard/GV
Trichlorofluoromethane	<5	<5	<5	<5	<5	<5	<5	<5	5
1,2,3-Trichloropropane	<5	<5	<5	<5	<5	<5	<5	<5	0.04
Vinyl acetate	<20	<20	<20	<20	<20	<20	<20	<20	NS
Vinyl Chloride	<5	<5	<5	<5	<5	<5	<5	<5	2
Xylenes (Total)	<5	<5	<5	**140**	<5	**130**	<5	**26**	5*

Notes:

1) Results in bold typeface indicate that the result exceeds the applicable standard. See Table 2 for a summary of these results.
2) NS indicates No Standard.
3) GV indicates that the standard listed is a Guidance Value.
4) N/A indicates not analyzed.

APPENDIX B

LABORATORY REPORTING SHEETS

Laboratory Analysis Report

For

Delaware Engineering

LSL Project Number: 0102406

Diane Legarie QC 4/4/01

Reviewed By **Date**

Life Science Laboratories, Inc.

LSL Central Lab
5854 Butternut Drive
East Syracuse, NY 13057
Tel. (315) 445-1105
Fax (315) 445-1301
NYS DOH ELAP #10248

LSL North Lab
131 St. Lawrence Avenue
Waddington, NY 13694
Tel. (315) 388-4476
Fax (315) 388-4061
NYS DOH ELAP #10900

-- LABORATORY ANALYSIS REPORT --

Delaware Engineering
28 Madison Ave. Extension
Albany, NY 12203

Attn: Ed Fahrenkopf
Phone: (518) 452-1290
FAX: (518) 452-1335

Project No.:
Authorization:

LSL Project No.: 0102406
Report Date: 4/4/01

Sample ID: X-1

Source: Tannery Road Landfill
Sample Matrix: NPW

LSL Sample ID: 0102406-001
Date Sampled: 3/19/2001

Parameter(s)	*Results*	*Units*	*Analysis Date and Time*	
(1) EPA 200.7 Total Metals				
Cadmium	<0.01	mg/l	3/22/01	
Calcium	68	mg/l	3/22/01	
Iron	40	mg/l	3/22/01	
Lead	<0.01	mg/l	3/22/01	
Magnesium	24	mg/l	3/22/01	
Manganese	0.78	mg/l	3/22/01	
Potassium	45	mg/l	3/23/01	
Sodium	54	mg/l	3/22/01	
Boron	1.1	mg/l	3/22/01	
(1) EPA 350.1 Ammonia				
Ammonia as N	46	mg/l	3/30/01	
(1) EPA 351.2 TKN as N				
Total Kjeldahl Nitrogen	51	mg/l	3/29/01	
(1) EPA 405.1 BOD-5*				
Biochemical Oxygen Demand, 5 Day				
**Not analyzed due to laboratory error.*				
(1) EPA 420.1 Recoverable Phenolics LL				
Phenolics, Total Recoverable	0.0057	mg/l	3/27/01	
(1) EPA Method 300.0 A				
Sulfate	34	mg/l	3/20/01	
Chloride	75	mg/l	3/20/01	
Bromide	0.95	mg/l	3/20/01	
Nitrate as N	<0.1	mg/l	3/20/01	15:01
(1) HACH 8000 COD				
Chemical Oxygen Demand	140		3/22/01	
(1) SM 18 2320B, Alkalinity as CaCO3				
Alkalinity	480	mg/l	3/31/01	
(1) SM 19 5310C TOC				
Total Organic Carbon	51	mg/l	3/23/01	
(1) SM-2540C Total Dissolved Solids				
Total Dissolved Solids @ 180 C	670	mg/l	3/20/01	
(1) SM19 2340B,Total Hardness as CaCO3				

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Delaware Engineering
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Albany, NY 12203

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FAX: (518) 452-1335

Project No.:
Authorization:

LSL Project No.: 0102406
Report Date: 4/4/01

Hardness, Total	270 mg/l	3/22/01
Calcium	68 mg/l	3/22/01
Magnesium	24 mg/l	3/22/01

Sample ID: MW-1S

Source: Tannery Road Landfill
Sample Matrix: NPW

LSL Sample ID: 0102406-002
Date Sampled: 3/19/2001

Parameter(s)	*Results*	*Units*	*Analysis Date and Time*
(1) EPA 200.7 Total Metals			
Cadmium	<0.01	mg/l	3/22/01
Calcium	1.9	mg/l	3/22/01
Iron	8.8	mg/l	3/22/01
Lead	<0.01	mg/l	3/22/01
Magnesium	1.3	mg/l	3/22/01
Manganese	0.11	mg/l	3/22/01
Potassium	1.1	mg/l	3/22/01
Sodium	1.2	mg/l	3/22/01
Boron	<0.5	mg/l	3/22/01
(1) EPA 350.1 Ammonia			
Ammonia as N	0.073	mg/l	3/30/01
(1) EPA 351.2 TKN as N*			
Total Kjeldahl Nitrogen	0.62	mg/l	3/29/01
**The result reported for this sample has been corrected for the concentration found in the blank.*			
(1) EPA 405.1 BOD-5*			
Biochemical Oxygen Demand, 5 Day			
**Not analyzed due to laboratory error.*			
(1) EPA 420.1 Recoverable Phenolics LL			
Phenolics, Total Recoverable	<0.002	mg/l	3/27/01
(1) EPA Method 300.0 A			
Sulfate	6.7	mg/l	3/20/01
Chloride	2.9	mg/l	3/20/01
Bromide	<0.1	mg/l	3/20/01
Nitrate as N	0.15	mg/l	3/20/01 15:18
(1) HACH 8000 COD			
Chemical Oxygen Demand	36		3/22/01
(1) SM 18 2320B, Alkalinity as CaCO3			
Alkalinity	1.4	mg/l	3/31/01
(1) SM 19 5310C TOC			

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Project No.:
Authorization:

LSL Project No.: 0102406
Report Date: 4/4/01

Total Organic Carbon	16 mg/l	3/23/01
(1) SM-2540C Total Dissolved Solids		
Total Dissolved Solids @ 180 C	14 mg/l	3/20/01
(1) SM19 2340B,Total Hardness as CaCO3		
Hardness, Total	10 mg/l	3/22/01
Calcium	1.9 mg/l	3/22/01
Magnesium	1.3 mg/l	3/22/01

Sample ID: MW-3S

Source: Tannery Road Landfill
Sample Matrix: NPW

LSL Sample ID: 0102406-003
Date Sampled: 3/19/2001

Parameter(s)	*Results Units*	*Analysis Date and Time*	
(1) EPA 200.7 Total Metals			
Cadmium	<0.01 mg/l	3/22/01	
Calcium	87 mg/l	3/22/01	
Iron	34 mg/l	3/22/01	
Lead	<0.01 mg/l	3/22/01	
Magnesium	25 mg/l	3/22/01	
Manganese	1.1 mg/l	3/22/01	
Potassium	170 mg/l	3/23/01	
Sodium	320 mg/l	3/22/01	
Boron	1.9 mg/l	3/22/01	
(1) EPA 350.1 Ammonia			
Ammonia as N	130 mg/l	3/30/01	
(1) EPA 351.2 TKN as N			
Total Kjeldahl Nitrogen	150 mg/l	3/29/01	
(1) EPA 405.1 BOD-5*			
Biochemical Oxygen Demand, 5 Day			
**Not analyzed due to laboratory error.*			
(1) EPA 420.1 Recoverable Phenolics LL			
Phenolics, Total Recoverable	0.0025 mg/l	3/27/01	
(1) EPA Method 300.0 A			
Sulfate	33 mg/l	3/20/01	
Chloride	220 mg/l	3/21/01	
Bromide	1.2 mg/l	3/20/01	
Nitrate as N	<0.1 mg/l	3/20/01	15:36
(1) HACH 8000 COD			
Chemical Oxygen Demand	350	3/22/01	

-- LABORATORY ANALYSIS REPORT --

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Project No.:
Authorization:

LSL Project No.: 0102406
Report Date: 4/4/01

(1) SM 18 2320B, Alkalinity as CaCO3		
Alkalinity	1200 mg/l	3/31/01
(1) SM 19 5310C TOC		
Total Organic Carbon	120 mg/l	3/23/01
(1) SM-2540C Total Dissolved Solids		
Total Dissolved Solids @ 180 C	1500 mg/l	3/20/01
(1) SM19 2340B,Total Hardness as CaCO3		
Hardness, Total	320 mg/l	3/22/01
Calcium	87 mg/l	3/22/01
Magnesium	25 mg/l	3/22/01

Sample ID: MW-4S

Source: Tannery Road Landfill
Sample Matrix: NPW

LSL Sample ID: 0102406-004
Date Sampled: 3/19/2001

Parameter(s)	*Results Units*	*Analysis Date and Time*
(1) EPA 200.7 Total Metals		
Cadmium	<0.01 mg/l	3/22/01
Calcium	7.7 mg/l	3/22/01
Iron	4.9 mg/l	3/22/01
Lead	<0.01 mg/l	3/22/01
Magnesium	3.0 mg/l	3/22/01
Manganese	0.30 mg/l	3/22/01
Potassium	16 mg/l	3/22/01
Sodium	7.4 mg/l	3/22/01
Boron	<0.5 mg/l	3/22/01
(1) EPA 350.1 Ammonia		
Ammonia as N	7.4 mg/l	3/30/01
(1) EPA 351.2 TKN as N		
Total Kjeldahl Nitrogen	8.2 mg/l	3/29/01
(1) EPA 405.1 BOD-5*		
Biochemical Oxygen Demand, 5 Day		
**Not analyzed due to laboratory error.*		
(1) EPA 420.1 Recoverable Phenolics LL		
Phenolics, Total Recoverable	<0.002 mg/l	3/30/01
(1) EPA Method 300.0 A		
Sulfate	11 mg/l	3/20/01
Chloride	7.1 mg/l	3/20/01
Bromide	<0.1 mg/l	3/20/01

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Albany, NY 12203

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FAX: (518) 452-1335

Project No.:
Authorization:

LSL Project No.: 0102406
Report Date: 4/4/01

Nitrate as N	<0.1 mg/l	3/20/01	15:54
(1) HACH 8000 COD			
Chemical Oxygen Demand	110	3/22/01	
(1) SM 18 2320B, Alkalinity as CaCO3			
Alkalinity	57 mg/l	3/31/01	
(1) SM 19 5310C TOC			
Total Organic Carbon	42 mg/l	3/23/01	
(1) SM-2540C Total Dissolved Solids			
Total Dissolved Solids @ 180 C	170 mg/l	3/20/01	
(1) SM19 2340B,Total Hardness as CaCO3			
Hardness, Total	31 mg/l	3/22/01	
Calcium	7.7 mg/l	3/22/01	
Magnesium	3.0 mg/l	3/22/01	

Sample ID: MW-5S

Source: Tannery Road Landfill
Sample Matrix: NPW

LSL Sample ID: 0102406-005
Date Sampled: 3/19/2001

Parameter(s)	*Results Units*	*Analysis Date and Time*
(1) EPA 200.7 Total Metals		
Cadmium	<0.01 mg/l	3/22/01
Calcium	64 mg/l	3/22/01
Iron	15 mg/l	3/22/01
Lead	<0.01 mg/l	3/22/01
Magnesium	10 mg/l	3/22/01
Manganese	2.6 mg/l	3/22/01
Potassium	8.8 mg/l	3/22/01
Sodium	3.8 mg/l	3/22/01
Boron	<0.5 mg/l	3/22/01
(1) EPA 350.1 Ammonia		
Ammonia as N	1.3 mg/l	3/30/01
(1) EPA 351.2 TKN as N		
Total Kjeldahl Nitrogen	1.8 mg/l	3/29/01
(1) EPA 405.1 BOD-5*		
Biochemical Oxygen Demand, 5 Day		
**Not analyzed due to laboratory error.*		
(1) EPA 420.1 Recoverable Phenolics LL		
Phenolics, Total Recoverable	<0.002 mg/l	3/30/01
(1) EPA Method 300.0 A		

-- LABORATORY ANALYSIS REPORT --

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Albany, NY 12203

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FAX: (518) 452-1335

Project No.:
Authorization:

LSL Project No.: 0102406
Report Date: 4/4/01

Sulfate	42 mg/l	3/20/01	
Chloride	5.0 mg/l	3/20/01	
Bromide	<0.1 mg/l	3/20/01	
Nitrate as N	<0.1 mg/l	3/20/01	16:11
(1) HACH 8000 COD			
Chemical Oxygen Demand	37	3/22/01	
(1) SM 18 2320B, Alkalinity as CaCO3			
Alkalinity	200 mg/l	3/31/01	
(1) SM 19 5310C TOC			
Total Organic Carbon	13 mg/l	3/23/01	
(1) SM-2540C Total Dissolved Solids			
Total Dissolved Solids @ 180 C	300 mg/l	3/20/01	
(1) SM19 2340B,Total Hardness as CaCO3			
Hardness, Total	200 mg/l	3/22/01	
Calcium	64 mg/l	3/22/01	
Magnesium	10 mg/l	3/22/01	

Sample ID: MW-7D

Source: Tannery Road Landfill
Sample Matrix: NPW

LSL Sample ID: 0102406-006
Date Sampled: 3/19/2001

Parameter(s)	*Results Units*	*Analysis Date and Time*
(1) EPA 200.7 Total Metals		
Cadmium	<0.01 mg/l	3/22/01
Calcium	70 mg/l	3/22/01
Iron	41 mg/l	3/22/01
Lead	<0.01 mg/l	3/22/01
Magnesium	25 mg/l	3/22/01
Manganese	0.80 mg/l	3/22/01
Potassium	43 mg/l	3/23/01
Sodium	54 mg/l	3/22/01
Boron	1.2 mg/l	3/22/01
(1) EPA 350.1 Ammonia		
Ammonia as N	46 mg/l	3/30/01
(1) EPA 351.2 TKN as N		
Total Kjeldahl Nitrogen	52 mg/l	3/29/01
(1) EPA 405.1 BOD-5*		
Biochemical Oxygen Demand, 5 Day		

**Not analyzed due to laboratory error.*

-- LABORATORY ANALYSIS REPORT --

Delaware Engineering
28 Madison Ave. Extension
Albany, NY 12203

Attn: Ed Fahrenkopf
Phone: (518) 452-1290
FAX: (518) 452-1335

Project No.: **LSL Project No.: 0102406**
Authorization: **Report Date: 4/4/01**

(1)	EPA 420.1 Recoverable Phenolics LL			
	Phenolics, Total Recoverable	0.0026 mg/l	3/30/01	
(1)	EPA Method 300.0 A			
	Sulfate	35 mg/l	3/20/01	
	Chloride	74 mg/l	3/20/01	
	Bromide	0.93 mg/l	3/20/01	
	Nitrate as N	0.13 mg/l	3/20/01	16:29
(1)	HACH 8000 COD			
	Chemical Oxygen Demand	140	3/22/01	
(1)	SM 18 2320B, Alkalinity as CaCO3			
	Alkalinity	430 mg/l	3/31/01	
(1)	SM 19 5310C TOC			
	Total Organic Carbon	49 mg/l	3/23/01	
(1)	SM-2540C Total Dissolved Solids			
	Total Dissolved Solids @ 180 C	670 mg/l	3/20/01	
(1)	SM19 2340B,Total Hardness as CaCO3			
	Hardness, Total	280 mg/l	3/22/01	
	Calcium	70 mg/l	3/22/01	
	Magnesium	25 mg/l	3/22/01	

Sample ID: MW-9S

Source: Tannery Road Landfill **LSL Sample ID: 0102406-007**
Sample Matrix: NPW **Date Sampled: 3/19/2001**

Parameter(s)	*Results Units*	*Analysis Date and Time*
(1) EPA 200.7 Total Metals		
Cadmium	<0.01 mg/l	3/22/01
Calcium	300 mg/l	3/22/01
Iron	110 mg/l	3/22/01
Lead	0.042 mg/l	3/22/01
Magnesium	100 mg/l	3/22/01
Manganese	5.0 mg/l	3/22/01
Potassium	14 mg/l	3/22/01
Sodium	55 mg/l	3/22/01
Boron	<0.5 mg/l	3/22/01
(1) EPA 350.1 Ammonia		
Ammonia as N	0.28 mg/l	3/30/01
(1) EPA 351.2 TKN as N*		
Total Kjeldahl Nitrogen	1.0 mg/l	3/29/01

Analysis performed at NYS DOH ELAP Number: (1) 10248, (2) 10900

-- LABORATORY ANALYSIS REPORT --

Delaware Engineering
28 Madison Ave. Extension
Albany, NY 12203

Attn: Ed Fahrenkopf
Phone: (518) 452-1290
FAX: (518) 452-1335

Project No.:
Authorization:

LSL Project No.: 0102406
Report Date: 4/4/01

*The result reported for this sample has been corrected for the concentration found in the blank.

(1)	EPA 405.1 BOD-5*			
	Biochemical Oxygen Demand, 5 Day			
	*Not analyzed due to laboratory error.			
(1)	EPA 420.1 Recoverable Phenolics LL			
	Phenolics, Total Recoverable	<0.002 mg/l	3/30/01	
(1)	EPA Method 300.0 A			
	Sulfate	4.2 mg/l	3/20/01	
	Chloride	3.4 mg/l	3/20/01	
	Bromide	<0.1 mg/l	3/20/01	
	Nitrate as N	<0.1 mg/l	3/20/01	16:46
(1)	HACH 8000 COD			
	Chemical Oxygen Demand	96	3/22/01	
(1)	SM 18 2320B, Alkalinity as CaCO3			
	Alkalinity	230 mg/l	3/31/01	
(1)	SM 19 5310C TOC			
	Total Organic Carbon	35 mg/l	3/23/01	
(1)	SM-2540C Total Dissolved Solids			
	Total Dissolved Solids @ 180 C	360 mg/l	3/20/01	
(1)	SM19 2340B,Total Hardness as CaCO3			
	Hardness, Total	1200 mg/l	3/22/01	
	Calcium	300 mg/l	3/22/01	
	Magnesium	100 mg/l	3/22/01	

Sample ID: MW-12

Source: Tannery Road Landfill
Sample Matrix: NPW

LSL Sample ID: 0102406-008
Date Sampled: 3/19/2001

Parameter(s)	*Results Units*	*Analysis Date and Time*
(1) EPA 200.7 Total Metals		
Cadmium	<0.01 mg/l	3/22/01
Calcium	110 mg/l	3/22/01
Iron	58 mg/l	3/22/01
Lead	<0.01 mg/l	3/22/01
Magnesium	82 mg/l	3/22/01
Manganese	0.35 mg/l	3/22/01
Potassium	190 mg/l	3/23/01
Sodium	340 mg/l	3/22/01
Boron	3.1 mg/l	3/22/01

Analysis performed at NYS DOH ELAP Number: (1) 10248, (2) 10900

-- LABORATORY ANALYSIS REPORT --

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FAX: (518) 452-1335

Project No.: **LSL Project No.: 0102406**
Authorization: **Report Date: 4/4/01**

(1)	EPA 350.1 Ammonia			
	Ammonia as N	200 mg/l	3/30/01	
(1)	EPA 351.2 TKN as N			
	Total Kjeldahl Nitrogen	210 mg/l	3/29/01	
(1)	EPA 405.1 BOD-5*			
	Biochemical Oxygen Demand, 5 Day			
	**Not analyzed due to laboratory error.*			
(1)	EPA 420.1 Recoverable Phenolics LL			
	Phenolics, Total Recoverable	0.020 mg/l	3/30/01	
(1)	EPA Method 300.0 A			
	Sulfate	2.3 mg/l	3/20/01	
	Chloride	320 mg/l	3/21/01	
	Bromide	4.2 mg/l	3/20/01	
	Nitrate as N	0.17 mg/l	3/20/01	17:04
(1)	HACH 8000 COD			
	Chemical Oxygen Demand	360	3/22/01	
(1)	SM 18 2320B, Alkalinity as CaCO3			
	Alkalinity	1300 mg/l	3/31/01	
(1)	SM 19 5310C TOC			
	Total Organic Carbon	130 mg/l	3/23/01	
(1)	SM-2540C Total Dissolved Solids			
	Total Dissolved Solids @ 180 C	1800 mg/l	3/20/01	
(1)	SM19 2340B,Total Hardness as CaCO3			
	Hardness, Total	620 mg/l	3/22/01	
	Calcium	110 mg/l	3/22/01	
	Magnesium	82 mg/l	3/22/01	

Life Science Laboratories, Inc.
5854 Butternut Drive
East Syracuse, NY 13057

Chain of Custody Record

Phone # (315) 445-1105 Telefax # (315) 445-1301

Client: Delaware Engineering Phone # 518 452-1290
Address: 28 Madison Ave Ext Telefax # 518 452-1335
Albany, N.Y. 12203

Authorization:

Contact Person: Ed Fahrenkopf

Numbers at top of columns cross reference with numbers and analyses at right.

LSL Project #: 02406

Client's Site I.D.: Tannery Road Landfill

Client's Project I.D.:

LSL Sample Number	Client's Sample Identifications	Sample Date	Sample Time	Type grab	Matrix	1	2	3	4	5	6	7	Preserv. Added	size/type	#	Analyses	Preserv. Check
01	X-1	3/19/2001	—	grab	GW	X	X	X	X	X			H_2SO_4	500 ml	1	TKN, NH_3 COD, TOC	
02	MW-1S		3:20			X	X	X	X	X			None	Liter	2	NO_3, BOD, TDS, SO_4, Chloride, Br	
03	MW-3S		1:55			X	X	X	X	X			H_2SO_4	Liter(g)	3	T. Phenols	
04	MW-4S		1:24			X	X	X	X	X			HNO_3	Liter	4	Hard, B, K, Na, Fe, Mn, Mg, Pb, Cd, Ca	
05	MW-5S		12:53			X	X	X	X	X			None	250 ml	5	Alkalinity	
06	MW-7D		12:14			X	X	X	X	X			-	-	6	Field Parameters	
07	MW-9S		2:50			X	X	X	X	X							
08	MW-12		10:59			X	X	X	X	X							

Notes and Hazard identifications:

Part 360

ROUTINE (new - 93)

10 CONTAINERS REC THIS COC

Custody Transfers	Date	Time
Sampled By: Brent Zimmer	3/19/2001	4:09
Relinquished By: Brent Zimmer	3/19/2001	5:00
Relinquished By: Received for Lab By:	03-20-01	RCVD

Shipment Method: Samples Received Intact: Y N 4.2

Ed Fahrenkopf
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Phone: (518) 452-1290
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Laboratory Analysis Report
For
Delaware Engineering

Project Number: 01-177

LSL Project Number: 0107291

Life Science Laboratories, Inc.

LSL Central Lab
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Tel. (315) 445-1105
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LSL Finger Lakes Lab
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NYS DOH ELAP #11667

This report was reviewed by: _____ *Date:* 7-12-01

Life Science Laboratories, Inc.

-- LABORATORY ANALYSIS REPORT --

Delaware Engineering		Ed Fahrenkopf	
		Phone Number:	(518) 452-1290
Project No.:	01-177	LSL Project No.:	0107291
Authorization:		Report Date:	7/11/01

Sample ID: MW-1S

Source:	Tannery Road Landfill	LSL Sample ID:	0107291-001
Sample Matrix:	NPW	Date Sampled:	6/25/2001

Parameter(s)	*Results*	*Units*	*Analysis Date and Time*	
(1) EPA 200.7 Total Metals				
Cadmium	<0.01	mg/l	6/29/01	
Calcium	1.7	mg/l	6/29/01	
Iron	5.6	mg/l	6/29/01	
Lead	<0.01	mg/l	6/29/01	
Magnesium	1.0	mg/l	6/29/01	
Manganese	0.093	mg/l	6/29/01	
Potassium	<1	mg/l	6/29/01	
Sodium	<1	mg/l	6/29/01	
Boron	<0.5	mg/l	6/29/01	
(1) EPA 350.1 Ammonia				
Ammonia as N	<0.03	mg/l	7/10/01	
(1) EPA 351.2 TKN as N*				
Total Kjeldahl Nitrogen	0.62	mg/l	7/10/01	
**The result reported for this sample has been corrected for the concentration found in the blank.*				
(1) EPA 405.1 BOD-5				
Biochemical Oxygen Demand, 5 Day	<4	mg/l	6/27/01	9:25
(1) EPA 420.1 Recoverable Phenolics LL				
Phenolics, Total Recoverable	<0.002	mg/l	7/9/01	
(1) EPA Method 300.0 A				
Sulfate	6.8	mg/l	6/27/01	
Chloride	2.4	mg/l	6/27/01	
Bromide	<0.1	mg/l	6/27/01	
Nitrate as N	0.15	mg/l	6/27/01	9:27
(1) HACH 8000 COD				
Chemical Oxygen Demand	26	mg/l	7/3/01	
(1) SM 18 2320B, Alkalinity as CaCO3				
Alkalinity	2.0	mg/l	7/2/01	
(1) SM 19 5310C TOC				
Total Organic Carbon	11	mg/l	7/2/01	
(1) SM-2540C Total Dissolved Solids				
Total Dissolved Solids @ 180 C	56	mg/l	6/28/01	
(1) SM19 2340B,Total Hardness as CaCO3				
Hardness, Total	8.6	mg/l	6/29/01	
Calcium	1.7	mg/l	6/29/01	
Magnesium	1.0	mg/l	6/29/01	

-- LABORATORY ANALYSIS REPORT --

Delaware Engineering		**Ed Fahrenkopf**	
		Phone Number:	**(518) 452-1290**
Project No.:	**01-177**	**LSL Project No.:**	**0107291**
Authorization:		**Report Date:**	**7/11/01**

Sample ID: MW-3S

Source:	**Tannery Road Landfill**	**LSL Sample ID:**	**0107291-002**
Sample Matrix:	**NPW**	**Date Sampled:**	**6/25/2001**

Parameter(s)	*Results*	*Units*	*Analysis Date and Time*	
(1) EPA 200.7 Total Metals				
Cadmium	<0.01	mg/l	6/29/01	
Calcium	99	mg/l	6/29/01	
Iron	34	mg/l	6/29/01	
Lead	<0.01	mg/l	6/29/01	
Magnesium	28	mg/l	6/29/01	
Manganese	1.2	mg/l	6/29/01	
Potassium	170	mg/l	7/9/01	
Sodium	370	mg/l	6/29/01	
Boron	1.2	mg/l	6/29/01	
(1) EPA 350.1 Ammonia				
Ammonia as N	110	mg/l	7/10/01	
(1) EPA 351.2 TKN as N				
Total Kjeldahl Nitrogen	130	mg/l	7/10/01	
(1) EPA 405.1 BOD-5				
Biochemical Oxygen Demand, 5 Day	24	mg/l	6/27/01	9:33
(1) EPA 420.1 Recoverable Phenolics LL				
Phenolics, Total Recoverable	0.0032	mg/l	7/9/01	
(1) EPA Method 300.0 A				
Sulfate	32	mg/l	6/27/01	
Chloride	210	mg/l	7/9/01	
Bromide	1.1	mg/l	6/27/01	
Nitrate as N	0.15	mg/l	6/27/01	9:44
(1) HACH 8000 COD				
Chemical Oxygen Demand	180	mg/l	7/3/01	
(1) SM 18 2320B, Alkalinity as CaCO3				
Alkalinity	1200	mg/l	7/2/01	
(1) SM 19 5310C TOC				
Total Organic Carbon	130	mg/l	7/5/01	
(1) SM-2540C Total Dissolved Solids				
Total Dissolved Solids @ 180 C	1500	mg/l	6/28/01	
(1) SM19 2340B,Total Hardness as CaCO3				
Hardness, Total	360	mg/l	6/29/01	
Calcium	99	mg/l	6/29/01	
Magnesium	28	mg/l	6/29/01	

-- LABORATORY ANALYSIS REPORT --

Delaware Engineering		**Ed Fahrenkopf**	
		Phone Number:	**(518) 452-1290**
Project No.:	**01-177**	**LSL Project No.:**	**0107291**
Authorization:		**Report Date:**	**7/11/01**

Sample ID: **MW-4S**

Source:	**Tannery Road Landfill**	**LSL Sample ID:**	**0107291-003**
Sample Matrix:	**NPW**	**Date Sampled:**	**6/25/2001**

Parameter(s)	*Results*	*Units*	*Analysis Date and Time*	
(1) EPA 200.7 Total Metals				
Cadmium	<0.01	mg/l	6/29/01	
Calcium	9.6	mg/l	6/29/01	
Iron	6.6	mg/l	6/29/01	
Lead	<0.01	mg/l	6/29/01	
Magnesium	3.9	mg/l	6/29/01	
Manganese	0.37	mg/l	6/29/01	
Potassium	24	mg/l	6/29/01	
Sodium	13	mg/l	6/29/01	
Boron	<0.5	mg/l	6/29/01	
(1) EPA 350.1 Ammonia				
Ammonia as N	9.8	mg/l	7/10/01	
(1) EPA 351.2 TKN as N				
Total Kjeldahl Nitrogen	12	mg/l	7/10/01	
(1) EPA 405.1 BOD-5				
Biochemical Oxygen Demand, 5 Day	12	mg/l	6/27/01	9:38
(1) EPA 420.1 Recoverable Phenolics LL				
Phenolics, Total Recoverable	0.0030	mg/l	7/9/01	
(1) EPA Method 300.0 A				
Sulfate	17	mg/l	6/27/01	
Chloride	8.7	mg/l	6/27/01	
Bromide	0.12	mg/l	6/27/01	
Nitrate as N	<0.1	mg/l	6/27/01	10:02
(1) HACH 8000 COD				
Chemical Oxygen Demand	98	mg/l	7/3/01	
(1) SM 18 2320B, Alkalinity as CaCO3				
Alkalinity	91	mg/l	7/2/01	
(1) SM 19 5310C TOC				
Total Organic Carbon	43	mg/l	7/2/01	
(1) SM-2540C Total Dissolved Solids				
Total Dissolved Solids @ 180 C	200	mg/l	6/28/01	
(1) SM19 2340B,Total Hardness as CaCO3				
Hardness, Total	40	mg/l	6/29/01	
Calcium	9.6	mg/l	6/29/01	
Magnesium	3.9	mg/l	6/29/01	

-- LABORATORY ANALYSIS REPORT --

Delaware Engineering

Ed Fahrenkopf
Phone Number: (518) 452-1290

Project No.: 01-177
LSL Project No.: 0107291
Authorization:
Report Date: 7/11/01

Sample ID: MW-5S

Source: Tannery Road Landfill
LSL Sample ID: 0107291-004
Sample Matrix: NPW
Date Sampled: 6/25/2001

Parameter(s)	*Results*	*Units*	*Analysis Date and Time*	
(1) EPA 200.7 Total Metals				
Cadmium	<0.01	mg/l	6/29/01	
Calcium	23	mg/l	6/29/01	
Iron	10	mg/l	6/29/01	
Lead	<0.01	mg/l	6/29/01	
Magnesium	5.1	mg/l	6/29/01	
Manganese	0.37	mg/l	6/29/01	
Potassium	24	mg/l	6/29/01	
Sodium	13	mg/l	6/29/01	
Boron	<0.5	mg/l	6/29/01	
(1) EPA 350.1 Ammonia				
Ammonia as N	0.34	mg/l	7/10/01	
(1) EPA 351.2 TKN as N*				
Total Kjeldahl Nitrogen	0.67	mg/l	7/10/01	
**The result reported for this sample has been corrected for the concentration found in the blank.*				
(1) EPA 405.1 BOD-5				
Biochemical Oxygen Demand, 5 Day	<4	mg/l	6/27/01	9:40
(1) EPA 420.1 Recoverable Phenolics LL				
Phenolics, Total Recoverable	<0.002	mg/l	7/9/01	
(1) EPA Method 300.0 A				
Sulfate	34	mg/l	6/27/01	
Chloride	2.9	mg/l	6/27/01	
Bromide	<0.1	mg/l	6/27/01	
Nitrate as N	0.22	mg/l	6/27/01	10:20
(1) HACH 8000 COD				
Chemical Oxygen Demand	5.2	mg/l	7/3/01	
(1) SM 18 2320B, Alkalinity as CaCO3				
Alkalinity	50	mg/l	7/2/01	
(1) SM 19 5310C TOC				
Total Organic Carbon	7.2	mg/l	7/2/01	
(1) SM-2540C Total Dissolved Solids				
Total Dissolved Solids @ 180 C	120	mg/l	6/28/01	
(1) SM19 2340B,Total Hardness as CaCO3				
Hardness, Total	78	mg/l	6/29/01	
Calcium	23	mg/l	6/29/01	
Magnesium	5.1	mg/l	6/29/01	

-- LABORATORY ANALYSIS REPORT --

Delaware Engineering		**Ed Fahrenkopf**	
		Phone Number:	**(518) 452-1290**
Project No.:	**01-177**	**LSL Project No.:**	**0107291**
Authorization:		**Report Date:**	**7/11/01**

Sample ID: MW-7D

Source:	**Tannery Road Landfill**	**LSL Sample ID:**	**0107291-005**
Sample Matrix:	**NPW**	**Date Sampled:**	**6/25/2001**

Parameter(s)	*Results*	*Units*	*Analysis Date and Time*	
(1) EPA 200.7 Total Metals				
Cadmium	<0.01	mg/l	6/29/01	
Calcium	66	mg/l	6/29/01	
Iron	42	mg/l	6/29/01	
Lead	0.013	mg/l	6/29/01	
Magnesium	25	mg/l	6/29/01	
Manganese	0.76	mg/l	6/29/01	
Potassium	39	mg/l	7/9/01	
Sodium	56	mg/l	6/29/01	
Boron	<0.5	mg/l	6/29/01	
(1) EPA 350.1 Ammonia				
Ammonia as N	40	mg/l	7/10/01	
(1) EPA 351.2 TKN as N				
Total Kjeldahl Nitrogen	43	mg/l	7/10/01	
(1) EPA 405.1 BOD-5				
Biochemical Oxygen Demand, 5 Day	13	mg/l	6/27/01	9:44
(1) EPA 420.1 Recoverable Phenolics LL				
Phenolics, Total Recoverable	0.0034	mg/l	7/9/01	
(1) EPA Method 300.0 A				
Sulfate	47	mg/l	6/27/01	
Chloride	62	mg/l	6/27/01	
Bromide	0.74	mg/l	6/27/01	
Nitrate as N	<0.1	mg/l	6/27/01	10:37
(1) HACH 8000 COD				
Chemical Oxygen Demand	120	mg/l	7/3/01	
(1) SM 18 2320B, Alkalinity as CaCO3				
Alkalinity	470	mg/l	7/2/01	
(1) SM 19 5310C TOC				
Total Organic Carbon	44	mg/l	7/2/01	
(1) SM-2540C Total Dissolved Solids				
Total Dissolved Solids @ 180 C	570	mg/l	6/28/01	
(1) SM19 2340B,Total Hardness as CaCO3				
Hardness, Total	270	mg/l	6/29/01	
Calcium	66	mg/l	6/29/01	
Magnesium	25	mg/l	6/29/01	

-- LABORATORY ANALYSIS REPORT --

Delaware Engineering

Ed Fahrenkopf
Phone Number: (518) 452-1290

Project No.: 01-177
LSL Project No.: 0107291
Authorization:
Report Date: 7/11/01

Sample ID: MW-9S

Source: Tannery Road Landfill
LSL Sample ID: 0107291-006
Sample Matrix: NPW
Date Sampled: 6/25/2001

Parameter(s)	*Results*	*Units*	*Analysis Date and Time*	
(1) EPA 200.7 Total Metals				
Cadmium	<0.01	mg/l	6/29/01	
Calcium	88	mg/l	6/29/01	
Iron	21	mg/l	6/29/01	
Lead	0.012	mg/l	6/29/01	
Magnesium	19	mg/l	6/29/01	
Manganese	1.1	mg/l	6/29/01	
Potassium	4.2	mg/l	6/29/01	
Sodium	48	mg/l	6/29/01	
Boron	<0.5	mg/l	6/29/01	
(1) EPA 350.1 Ammonia				
Ammonia as N	0.30	mg/l	7/10/01	
(1) EPA 351.2 TKN as N				
Total Kjeldahl Nitrogen	1.3	mg/l	7/10/01	
(1) EPA 405.1 BOD-5				
Biochemical Oxygen Demand, 5 Day	<4	mg/l	6/27/01	9:46
(1) EPA 420.1 Recoverable Phenolics LL				
Phenolics, Total Recoverable	<0.002	mg/l	7/9/01	
(1) EPA Method 300.0 A				
Sulfate	2.9	mg/l	6/27/01	
Chloride	3.2	mg/l	6/27/01	
Bromide	0.17	mg/l	6/27/01	
Nitrate as N	0.18	mg/l	6/27/01	10:55
(1) HACH 8000 COD				
Chemical Oxygen Demand	120	mg/l	7/3/01	
(1) SM 18 2320B, Alkalinity as CaCO3				
Alkalinity	260	mg/l	7/2/01	
(1) SM 19 5310C TOC				
Total Organic Carbon	30	mg/l	7/2/01	
(1) SM-2540C Total Dissolved Solids				
Total Dissolved Solids @ 180 C	380	mg/l	6/28/01	
(1) SM19 2340B,Total Hardness as CaCO3				
Hardness, Total	300	mg/l	6/29/01	
Calcium	88	mg/l	6/29/01	
Magnesium	19	mg/l	6/29/01	

-- LABORATORY ANALYSIS REPORT --

Delaware Engineering

Ed Fahrenkopf

Phone Number: (518) 452-1290

Project No.: 01-177

LSL Project No.: 0107291

Authorization:

Report Date: 7/11/01

Sample ID: MW-12

Source: Tannery Road Landfill

LSL Sample ID: 0107291-007

Sample Matrix: NPW

Date Sampled: 6/25/2001

Parameter(s)	*Results*	*Units*	*Analysis Date and Time*	
(1) EPA 200.7 Total Metals				
Cadmium	<0.01	mg/l	6/29/01	
Calcium	100	mg/l	6/29/01	
Iron	56	mg/l	6/29/01	
Lead	<0.01	mg/l	6/29/01	
Magnesium	86	mg/l	6/29/01	
Manganese	0.35	mg/l	6/29/01	
Potassium	210	mg/l	7/9/01	
Sodium	450	mg/l	6/29/01	
Boron	2.3	mg/l	6/29/01	
(1) EPA 350.1 Ammonia				
Ammonia as N	190	mg/l	7/10/01	
(1) EPA 351.2 TKN as N				
Total Kjeldahl Nitrogen	190	mg/l	7/10/01	
(1) EPA 405.1 BOD-5				
Biochemical Oxygen Demand, 5 Day	5.5	mg/l	6/27/01	9:48
(1) EPA 420.1 Recoverable Phenolics LL				
Phenolics, Total Recoverable	0.024	mg/l	7/9/01	
(1) EPA Method 300.0 A				
Sulfate	2.8	mg/l	6/27/01	
Chloride	330	mg/l	7/9/01	
Bromide	3.9	mg/l	6/27/01	
Nitrate as N	0.26	mg/l	6/27/01	11:12
(1) HACH 8000 COD				
Chemical Oxygen Demand	170	mg/l	7/3/01	
(1) SM 18 2320B, Alkalinity as CaCO3				
Alkalinity	1700	mg/l	7/2/01	
(1) SM 19 5310C TOC				
Total Organic Carbon	130	mg/l	7/5/01	
(1) SM-2540C Total Dissolved Solids				
Total Dissolved Solids @ 180 C	1700	mg/l	6/28/01	
(1) SM19 2340B,Total Hardness as CaCO3				
Hardness, Total	620	mg/l	6/29/01	
Calcium	100	mg/l	6/29/01	
Magnesium	86	mg/l	6/29/01	

Life Science Laboratories, Inc.
5854 Butternut Drive
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Phone # (315) 445-1105 Telefax # (315) 445-1301

Chain of Custody Record

2 coolers

Client: Delaware Engineering Phone # 518-452-1290
Address: 28 Madison Avenue Ext. Telefax # 518 452-1335
Albany, NY 12203

Authorization:

Contact Person: Ed Fahrenkopf

Numbers at top of columns cross reference with numbers and analyses at right.

LSL Project #: 107291

Client's Site I.D.: Tanner Road Landfill

Client's Project I.D.: 01-177

LSL Sample Number	Client's Sample Identifications	Sample Date	Sample Time	Type grab	Matrix	A 1	B 2	C 3	D 4	E 5	6	7	Preserv. Added	size/type	#	Analyses	Preserv. Check
001	MW-1S	6/25/01	0949	G	GW	✓	✓	✓	✓	✓			H_2SO_4	500 ml	1	TKN, NH_3 COD, TOC	
002	MW-3S		1215			✓	✓	✓	✓	✓			None	Liter	2	NO_3, BOD, TDS, SO_4, Chloride, Br	
003	MW-4S		1330			✓	✓	✓	✓	✓			H_2SO_4	Liter(g)	3	T. Phenols	
004	MW-5S		1315			✓	✓	✓	✓	✓			HNO_3	Liter	4	Hard, B, K, Na, Fe, Mn, Mg, Pb, Cd, Ca	
005	MW-7D		1050			✓	✓	✓	✓	✓			None	250 ml	5	Alkalinity	
006	MW-9S		1245			✓	✓	✓	✓	✓			-	-	6	Field Parameters	
007	MW-12		1335			✓	✓	✓	✓	✓							

NYS Part 360
Routine Parameter

Notes and Hazard identifications:

ROUTINE (new - 93)

35 CONTAINERS REC THIS COC

Custody Transfers	Date	Time
Sampled By: Ed Fahrenkopf	6/25/01	
Relinquished By: Ed Fahrenkopf	6/25/01	1430
Relinquished By:	Received for Lab By:	6-26-01 1040

Shipment Method: Samples Received Intact: Y N

14° C

Ed Fahrenkopf
Delaware Engineering
28 Madison Ave. Extension
Albany, NY 12203

Phone: (518) 452-1290
FAX: (518) 452-1335

Laboratory Analysis Report
For
Delaware Engineering

Project Number: Routine(New)

LSL Project Number: 0112021

Life Science Laboratories, Inc.

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NYS DOH ELAP #11667

This report was reviewed by: Alex Sinton QAO
Life Science Laboratories, Inc.

Date: 10-12-01

-- LABORATORY ANALYSIS REPORT --

Delaware Engineering		**Ed Fahrenkopf**	
		Phone Number:	**(518) 452-1290**
Project No.:	**Routine(New)**	**LSL Project No.:**	**0112021**
Authorization:		**Report Date:**	**10/12/01**

Sample ID: MW-7D

Source:		**LSL Sample ID:**	**0112021-001**
Sample Matrix:	**NPW**	**Date Sampled:**	**9/27/2001**

Parameter(s)	*Results*	*Units*	*Analysis Date and Time*	
(1) EPA 200.7 Total Metals				
Cadmium	<0.01	mg/l	10/1/01	
Calcium	64	mg/l	10/1/01	
Iron	39	mg/l	10/1/01	
Lead	0.014	mg/l	10/1/01	
Magnesium	25	mg/l	10/1/01	
Manganese	0.76	mg/l	10/1/01	
Potassium	41	mg/l	10/2/01	
Sodium	59	mg/l	10/1/01	
Boron	0.83	mg/l	10/1/01	
(1) EPA 350.1 Ammonia				
Ammonia as N	47	mg/l	10/9/01	
(1) EPA 351.2 TKN as N				
Total Kjeldahl Nitrogen	50	mg/l	10/8/01	
(1) EPA 405.1 BOD-5				
Biochemical Oxygen Demand, 5 Day	14	mg/l	9/28/01	12:18
(1) EPA 420.1 Recoverable Phenolics LL				
Phenolics, Total Recoverable	0.0039	mg/l	10/12/01	
(1) EPA Method 300.0 A				
Sulfate	45	mg/l	9/29/01	
Chloride	46	mg/l	9/28/01	
Bromide	0.75	mg/l	9/29/01	
Nitrate as N	<0.1	mg/l	9/29/01	0:53
(1) HACH 8000 COD				
Chemical Oxygen Demand	120	mg/l	10/2/01	
(1) SM 18 2320B; Alkalinity as CaCO3				
Alkalinity	430	mg/l	10/2/01	
(1) SM 19 5310C TOC				
Total Organic Carbon	43	mg/l	10/9/01	
(1) SM-2540C Total Dissolved Solids				
Total Dissolved Solids @ 180 C	480	mg/l	10/1/01	
(1) SM19 2340B,Total Hardness as CaCO3				
Hardness, Total	260	mg/l	10/1/01	

-- LABORATORY ANALYSIS REPORT --

Delaware Engineering

Ed Fahrenkopf

Phone Number: (518) 452-1290

Project No.: Routine(New)

LSL Project No.: 0112021

Authorization:

Report Date: 10/12/01

Sample ID: MW-1S

Source:

LSL Sample ID: 0112021-002

Sample Matrix: NPW

Date Sampled: 9/27/2001

Parameter(s)	*Results*	*Units*	*Analysis Date and Time*	
(1) EPA 200.7 Total Metals				
Cadmium	<0.01	mg/l	10/1/01	
Calcium	5.7	mg/l	10/1/01	
Iron	7.8	mg/l	10/1/01	
Lead	<0.01	mg/l	10/1/01	
Magnesium	1.5	mg/l	10/1/01	
Manganese	0.19	mg/l	10/1/01	
Potassium	1.2	mg/l	10/1/01	
Sodium	7.5	mg/l	10/1/01	
Boron	<0.5	mg/l	10/1/01	
(1) EPA 350.1 Ammonia				
Ammonia as N	0.089	mg/l	10/9/01	
(1) EPA 351.2 TKN as N*				
Total Kjeldahl Nitrogen	0.60	mg/l	10/8/01	
**The result reported for this sample has been corrected for the concentration found in the blank.*				
(1) EPA 405.1 BOD-5				
Biochemical Oxygen Demand, 5 Day	<4	mg/l	9/28/01	12:29
(1) EPA 420.1 Recoverable Phenolics LL				
Phenolics, Total Recoverable	<0.002	mg/l	10/12/01	
(1) EPA Method 300.0 A				
Sulfate	17	mg/l	9/29/01	
Chloride	3.8	mg/l	9/29/01	
Bromide	<0.1	mg/l	9/29/01	
Nitrate as N	0.16	mg/l	9/29/01	1:46
(1) HACH 8000 COD				
Chemical Oxygen Demand	34	mg/l	10/2/01	
(1) SM 18 2320B, Alkalinity as CaCO3				
Alkalinity	12	mg/l	10/2/01	
(1) SM 19 5310C TOC				
Total Organic Carbon	13	mg/l	10/9/01	
(1) SM-2540C Total Dissolved Solids				
Total Dissolved Solids @ 180 C	190	mg/l	10/1/01	
(1) SM19 2340B,Total Hardness as CaCO3				
Hardness, Total	20	mg/l	10/1/01	

-- LABORATORY ANALYSIS REPORT --

Delaware Engineering

Ed Fahrenkopf

Phone Number: (518) 452-1290

Project No.: Routine(New)

LSL Project No.: 0112021

Authorization:

Report Date: 10/12/01

Sample ID: MW-12

Source:

LSL Sample ID: 0112021-003

Sample Matrix: NPW

Date Sampled: 9/27/2001

Parameter(s)	*Results*	*Units*	*Analysis Date and Time*	
(1) EPA 200.7 Total Metals				
Cadmium	<0.01	mg/l	10/1/01	
Calcium	120	mg/l	10/1/01	
Iron	65	mg/l	10/1/01	
Lead	<0.01	mg/l	10/1/01	
Magnesium	90	mg/l	10/1/01	
Manganese	0.45	mg/l	10/1/01	
Potassium	200	mg/l	10/2/01	
Sodium	400	mg/l	10/1/01	
Boron	2.8	mg/l	10/1/01	
(1) EPA 350.1 Ammonia				
Ammonia as N	240	mg/l	10/9/01	
(1) EPA 351.2 TKN as N				
Total Kjeldahl Nitrogen	230	mg/l	10/8/01	
(1) EPA 405.1 BOD-5				
Biochemical Oxygen Demand, 5 Day	40	mg/l	9/28/01	13:12
(1) EPA 420.1 Recoverable Phenolics LL				
Phenolics, Total Recoverable	0.021	mg/l	10/12/01	
(1) EPA Method 300.0 A				
Sulfate	3.0	mg/l	9/29/01	
Chloride	460	mg/l	10/10/01	
Bromide	3.9	mg/l	9/29/01	
Nitrate as N	0.16	mg/l	9/29/01	2:04
(1) HACH 8000 COD				
Chemical Oxygen Demand	31	mg/l	10/2/01	
(1) SM 18 2320B, Alkalinity as CaCO3				
Alkalinity	1800	mg/l	10/2/01	
(1) SM 19 5310C TOC				
Total Organic Carbon	140	mg/l	10/9/01	
(1) SM-2540C Total Dissolved Solids				
Total Dissolved Solids @ 180 C	1700	mg/l	10/1/01	
(1) SM19 2340B,Total Hardness as CaCO3				
Hardness, Total	660	mg/l	10/1/01	

-- LABORATORY ANALYSIS REPORT --

Delaware Engineering

Ed Fahrenkopf

Phone Number: (518) 452-1290

Project No.: Routine(New)

LSL Project No.: 0112021

Authorization:

Report Date: 10/12/01

Sample ID: MW-3S

Source:

LSL Sample ID: 0112021-004

Sample Matrix: NPW

Date Sampled: 9/27/2001

Parameter(s)	*Results*	*Units*	*Analysis Date and Time*	
(1) EPA 200.7 Total Metals				
Cadmium	<0.01	mg/l	10/1/01	
Calcium	82	mg/l	10/1/01	
Iron	26	mg/l	10/1/01	
Lead	<0.01	mg/l	10/1/01	
Magnesium	20	mg/l	10/1/01	
Manganese	0.95	mg/l	10/1/01	
Potassium	140	mg/l	10/2/01	
Sodium	220	mg/l	10/1/01	
Boron	1.3	mg/l	10/1/01	
(1) EPA 350.1 Ammonia				
Ammonia as N	95	mg/l	10/9/01	
(1) EPA 351.2 TKN as N				
Total Kjeldahl Nitrogen	100	mg/l	10/8/01	
(1) EPA 405.1 BOD-5				
Biochemical Oxygen Demand, 5 Day	16	mg/l	9/28/01	13:14
(1) EPA 420.1 Recoverable Phenolics LL				
Phenolics, Total Recoverable	0.0022	mg/l	10/12/01	
(1) EPA Method 300.0 A				
Sulfate	66	mg/l	9/29/01	
Chloride	110	mg/l	10/10/01	
Bromide	0.50	mg/l	9/29/01	
Nitrate as N	<0.1	mg/l	9/29/01	2:21
(1) HACH 8000 COD				
Chemical Oxygen Demand	410	mg/l	10/2/01	
(1) SM 18 2320B, Alkalinity as CaCO3				
Alkalinity	930	mg/l	10/2/01	
(1) SM 19 5310C TOC				
Total Organic Carbon	84	mg/l	10/9/01	
(1) SM-2540C Total Dissolved Solids				
Total Dissolved Solids @ 180 C	1100	mg/l	10/1/01	
(1) SM19 2340B,Total Hardness as CaCO3				
Hardness, Total	290	mg/l	10/1/01	

-- LABORATORY ANALYSIS REPORT --

Delaware Engineering

Ed Fahrenkopf

Phone Number: (518) 452-1290

Project No.: Routine(New)

LSL Project No.: 0112021

Authorization:

Report Date: 10/12/01

Sample ID: MW-9S

Source:

LSL Sample ID: 0112021-005

Sample Matrix: NPW

Date Sampled: 9/27/2001

Parameter(s)	*Results*	*Units*	*Analysis Date and Time*	
(1) EPA 200.7 Total Metals				
Cadmium	<0.01	mg/l	10/1/01	
Calcium	120	mg/l	10/1/01	
Iron	30	mg/l	10/1/01	
Lead	0.012	mg/l	10/1/01	
Magnesium	29	mg/l	10/1/01	
Manganese	1.5	mg/l	10/1/01	
Potassium	7.2	mg/l	10/1/01	
Sodium	33	mg/l	10/1/01	
Boron	<0.5	mg/l	10/1/01	
(1) EPA 350.1 Ammonia				
Ammonia as N	0.39	mg/l	10/9/01	
(1) EPA 351.2 TKN as N				
Total Kjeldahl Nitrogen	1.0	mg/l	10/8/01	
(1) EPA 405.1 BOD-5				
Biochemical Oxygen Demand, 5 Day	4.2	mg/l	9/28/01	13:16
(1) EPA 420.1 Recoverable Phenolics LL				
Phenolics, Total Recoverable	<0.002	mg/l	10/12/01	
(1) EPA Method 300.0 A				
Sulfate	3.1	mg/l	9/29/01	
Chloride	3.6	mg/l	9/29/01	
Bromide	0.12	mg/l	9/29/01	
Nitrate as N	<0.1	mg/l	9/29/01	2:39
(1) HACH 8000 COD				
Chemical Oxygen Demand	72	mg/l	10/2/01	
(1) SM 18 2320B, Alkalinity as CaCO3				
Alkalinity	240	mg/l	10/2/01	
(1) SM 19 5310C TOC				
Total Organic Carbon	29	mg/l	10/9/01	
(1) SM-2540C Total Dissolved Solids				
Total Dissolved Solids @ 180 C	240	mg/l	10/1/01	
(1) SM19 2340B,Total Hardness as CaCO3				
Hardness, Total	420	mg/l	10/1/01	

-- LABORATORY ANALYSIS REPORT --

Delaware Engineering

Ed Fahrenkopf

Phone Number: (518) 452-1290

Project No.: Routine(New)

LSL Project No.: 0112021

Authorization:

Report Date: 10/12/01

Sample ID: MW-5S

Source:

LSL Sample ID: 0112021-006

Sample Matrix: NPW

Date Sampled: 9/27/2001

Parameter(s)	*Results*	*Units*	*Analysis Date and Time*	
(1) EPA 200.7 Total Metals				
Cadmium	<0.01	mg/l	10/1/01	
Calcium	72	mg/l	10/1/01	
Iron	15	mg/l	10/1/01	
Lead	<0.01	mg/l	10/1/01	
Magnesium	12	mg/l	10/1/01	
Manganese	2.5	mg/l	10/1/01	
Potassium	9.4	mg/l	10/1/01	
Sodium	4.8	mg/l	10/1/01	
Boron	<0.5	mg/l	10/1/01	
(1) EPA 350.1 Ammonia				
Ammonia as N	1.4	mg/l	10/9/01	
(1) EPA 351.2 TKN as N				
Total Kjeldahl Nitrogen	1.6	mg/l	10/8/01	
(1) EPA 405.1 BOD-5				
Biochemical Oxygen Demand, 5 Day	4.7	mg/l	9/28/01	12:31
(1) EPA 420.1 Recoverable Phenolics LL				
Phenolics, Total Recoverable	<0.002	mg/l	10/12/01	
(1) EPA Method 300.0 A				
Sulfate	53	mg/l	9/29/01	
Chloride	6.0	mg/l	9/29/01	
Bromide	0.13	mg/l	9/29/01	
Nitrate as N	<0.1	mg/l	9/29/01	2:56
(1) HACH 8000 COD				
Chemical Oxygen Demand	43	mg/l	10/2/01	
(1) SM 18 2320B, Alkalinity as CaCO3				
Alkalinity	190	mg/l	10/2/01	
(1) SM 19 5310C TOC				
Total Organic Carbon	13	mg/l	10/9/01	
(1) SM-2540C Total Dissolved Solids				
Total Dissolved Solids @ 180 C	240	mg/l	10/1/01	
(1) SM19 2340B,Total Hardness as CaCO3				
Hardness, Total	230	mg/l	10/1/01	

-- LABORATORY ANALYSIS REPORT --

Delaware Engineering

Ed Fahrenkopf

Phone Number: (518) 452-1290

Project No.: Routine(New)

LSL Project No.: 0112021

Authorization:

Report Date: 10/12/01

Sample ID: MW-4S

Source:

LSL Sample ID: 0112021-007

Sample Matrix: NPW

Date Sampled: 9/27/2001

Parameter(s)	*Results*	*Units*	*Analysis Date and Time*	
(1) EPA 200.7 Total Metals				
Cadmium	<0.01	mg/l	10/1/01	
Calcium	14	mg/l	10/1/01	
Iron	6.9	mg/l	10/1/01	
Lead	<0.01	mg/l	10/1/01	
Magnesium	4.9	mg/l	10/1/01	
Manganese	0.48	mg/l	10/1/01	
Potassium	33	mg/l	10/1/01	
Sodium	46	mg/l	10/1/01	
Boron	0.65	mg/l	10/1/01	
(1) EPA 350.1 Ammonia				
Ammonia as N	32	mg/l	10/9/01	
(1) EPA 351.2 TKN as N				
Total Kjeldahl Nitrogen	34	mg/l	10/8/01	
(1) EPA 405.1 BOD-5				
Biochemical Oxygen Demand, 5 Day	25	mg/l	9/28/01	13:21
(1) EPA 420.1 Recoverable Phenolics LL				
Phenolics, Total Recoverable	0.0024	mg/l	10/12/01	
(1) EPA Method 300.0 A				
Sulfate	49	mg/l	9/29/01	
Chloride	43	mg/l	9/29/01	
Bromide	0.24	mg/l	9/29/01	
Nitrate as N	<0.1	mg/l	9/29/01	3:14
(1) HACH 8000 COD				
Chemical Oxygen Demand	160	mg/l	10/2/01	
(1) SM 18 2320B, Alkalinity as CaCO3				
Alkalinity	170	mg/l	10/2/01	
(1) SM 19 5310C TOC				
Total Organic Carbon	61	mg/l	10/9/01	
(1) SM-2540C Total Dissolved Solids				
Total Dissolved Solids @ 180 C	300	mg/l	10/1/01	
(1) SM19 2340B,Total Hardness as CaCO3				
Hardness, Total	56	mg/l	10/1/01	

Life Science Laboratories, Inc.
5854 Butternut Drive
East Syracuse, NY 13057

Chain of Custody Record

Phone # (315) 445-1105 Telefax # (315) 445-1301

Client: Delaware Engineering Phone # 518 452-1290
Address: 28 Madison Avenue Ext Telefax # 518-452-1335
Albany NY 12203

Authorization:

Contact Person: Ed Fahrenkopf

Numbers at top of columns cross reference with numbers and analyses at right.

LSL Project #: 11.2021

Client's Site I.D.:

Client's Project I.D.:

LSL Sample Number	Client's Sample Identifications	Sample Date	Sample Time	Type grab	Matrix	A 1	B 2	C 3	D 4	E 5	6	7	Preserv. Added	size/type	#	Analyses	Preserv. Check
01	MW-7D	9/27/01	1110	G	GW	X	X	X	X	X	X		H_2SO_4	500 ml	1	TKN, NH_3 COD, TOC	
02	MW-1S		1145			X	X	X	X	X	X		None	Liter	2	NO_3, BOD, TDS, SO_4, Chloride, Br	
03	MW-12		1240			X	X	X	X	X	X		H_2SO_4	Liter(g)	3	T. Phenols	
04	MW-3S		1220			X	X	X	X	X	X		HNO_3	Liter	4	Hard, B, K, Na, Fe, Mn, Mg, Pb, Cd, Ca	
05	MW-9S		1330			X	X	X	X	X	X		None	250 ml	5	Alkalinity	
06	MW-5S		1415			X	X	X	X	X	X		-	-	6	Field Parameters	
07	MW-4S		1505			X	X	X	X	X	X						
						X	X	X	X	X	X						

All samples

Notes and Hazard identifications:

ROUTINE (new - 93)

Custody Transfers	Date	Time
Sampled By:		
Relinquished By:	9/28	6:46
Relinquished By: Received for Lab By:	09-28-01 09:26 RCVD	

Shipment Method: Samples Received Intact: Y N

LSL

JAN 1 6 2002

Ed Fahrenkopf
Delaware Engineering
28 Madison Ave. Extension
Albany, NY 12203

Phone: (518) 452-1290
FAX: (518) 452-1335

Laboratory Analysis Report
For
Delaware Engineering

LSL Project Number: 0116196

Life Science Laboratories, Inc.

LSL Central Lab
5854 Butternut Drive
East Syracuse, NY 13057
Tel. (315) 445-1105
Fax (315) 445-1301
NYS DOH ELAP #10248

LSL North Lab
131 St. Lawrence Avenue
Waddington, NY 13694
Tel. (315) 388-4476
Fax (315) 388-4061
NYS DOH ELAP #10900

LSL Finger Lakes Lab
16 N. Main St., PO Box 424
Wayland, NY 14572
Tel. (716) 728-3320
Fax (716) 728-2711
NYS DOH ELAP #11667

This report was reviewed by: Linda Waters QC *Date:* 1/11/02

Life Science Laboratories, Inc.

-- LABORATORY ANALYSIS REPORT --

Delaware Engineering

Ed Fahrenkopf
Phone Number: (518) 452-1290

Project No.:
LSL Project No.: 0116196

Authorization:
Report Date: 1/10/02

Sample ID: MW-1S

Source: Tannery Road
LSL Sample ID: 0116196-001

Sample Matrix: NPW
Date Sampled: 12/26/2001

Parameter(s)	*Results*	*Units*	*Analysis Date and Time*
(1) EPA 200.7 Total Metals			
Boron	<0.5	mg/l	1/2/02
Potassium	<1	mg/l	1/2/02
Sodium	1.2	mg/l	1/2/02
Iron	3.2	mg/l	1/2/02
Manganese	0.070	mg/l	1/2/02
Magnesium	<1	mg/l	1/2/02
Lead	<1	mg/l	1/2/02
Cadmium	<0.01	mg/l	1/2/02
Aluminum	5.0	mg/l	1/2/02
Calcium	2.2	mg/l	1/2/02
Antimony	<0.01	mg/l	1/2/02
Arsenic	<0.01	mg/l	1/2/02
Beryllium	<0.01	mg/l	1/2/02
Barium	<0.2	mg/l	1/2/02
Chromium	<0.01	mg/l	1/2/02
Copper	<0.01	mg/l	1/2/02
Nickel	<0.01	mg/l	1/2/02
Selenium	<0.01	mg/l	1/2/02
Silver	<0.01	mg/l	1/2/02
Thallium	<0.01	mg/l	1/2/02
Zinc	0.040	mg/l	1/2/02
Cobalt	<0.01	mg/l	1/2/02
Vanadium	<0.01	mg/l	1/2/02
(1) EPA 245.1 Mercury			
Mercury	<0.0002	mg/l	1/9/02
(1) EPA 335.2 Total Cyanide			
Cyanide, Total	<0.01	mg/l	1/3/02
(1) EPA 350.1 Ammonia			
Ammonia as N	<0.03	mg/l	1/9/02
(1) EPA 351.2 TKN as N*			
Total Kjeldahl Nitrogen	0.23	mg/l	1/8/02
**The result reported for this sample has been corrected for the concentration found in the blank.*			
(1) EPA 405.1 BOD-5			
Biochemical Oxygen Demand, 5 Day	<4	mg/l	12/28/01 10:46
(1) EPA 420.1 Recoverable Phenolics LL			

Delaware Engineering

Ed Fahrenkopf

Phone Number: (518) 452-1290

Project No.:

LSL Project No.: 0116196

Authorization:

Report Date: 1/10/02

Phenolics, Total Recoverable	<0.002	mg/l	1/7/02
(1) EPA 8260B TCL Volatiles (Modified)			
Acetone	<10	ug/l	1/4/02
Acrylonitrile	<20	ug/l	1/4/02
Benzene	<5	ug/l	1/4/02
Bromochloromethane	<5	ug/l	1/4/02
Bromodichloromethane	<5	ug/l	1/4/02
Bromoform	<5	ug/l	1/4/02
Bromomethane	<5	ug/l	1/4/02
2-Butanone (MEK)	<10	ug/l	1/4/02
Carbon disulfide	<5	ug/l	1/4/02
Carbon tetrachloride	<5	ug/l	1/4/02
Chlorobenzene	<5	ug/l	1/4/02
Chloroethane	<5	ug/l	1/4/02
Chloromethane	<5	ug/l	1/4/02
Chloroform	<5	ug/l	1/4/02
Dibromochloromethane	<5	ug/l	1/4/02
1,2-Dibromo-3-chloropropane	<5	ug/l	1/4/02
1,2-Dibromoethane(EDB)	<5	ug/l	1/4/02
Dibromomethane	<5	ug/l	1/4/02
1,2-Dichlorobenzene	<5	ug/l	1/4/02
1,4-Dichlorobenzene	<5	ug/l	1/4/02
trans-1,4-Dichloro-2-butene	<50	ug/l	1/4/02
1,1-Dichloroethane	<5	ug/l	1/4/02
1,2-Dichloroethane	<5	ug/l	1/4/02
1,1-Dichloroethene	<5	ug/l	1/4/02
cis-1,2-Dichloroethene	<5	ug/l	1/4/02
trans-1,2-Dichloroethene	<5	ug/l	1/4/02
1,2-Dichloropropane	<5	ug/l	1/4/02
cis-1,3-Dichloropropene	<5	ug/l	1/4/02
trans-1,3-Dichloropropene	<5	ug/l	1/4/02
Ethyl benzene	<5	ug/l	1/4/02
2-Hexanone	<10	ug/l	1/4/02
Iodomethane (Methyl iodide)	<20	ug/l	1/4/02
Methylene chloride	<10	ug/l	1/4/02
4-Methyl-2-pentanone (MIBK)	<10	ug/l	1/4/02
Styrene	<5	ug/l	1/4/02
1,1,1,2-Tetrachloroethane	<5	ug/l	1/4/02
1,1,2,2-Tetrachloroethane	<5	ug/l	1/4/02
Tetrachloroethene	<5	ug/l	1/4/02

Delaware Engineering

Ed Fahrenkopf
Phone Number: (518) 452-1290

Project No.:
LSL Project No.: 0116196
Authorization:
Report Date: 1/10/02

	Toluene	<5 ug/l	1/4/02	
	1,1,1-Trichloroethane	<5 ug/l	1/4/02	
	1,1,2-Trichloroethane	<5 ug/l	1/4/02	
	Trichloroethene	<5 ug/l	1/4/02	
	Trichlorofluoromethane (Freon 11)	<5 ug/l	1/4/02	
	1,2,3-Trichloropropane	<5 ug/l	1/4/02	
	Vinyl acetate	<20 ug/l	1/4/02	
	Vinyl chloride	<5 ug/l	1/4/02	
	Xylenes (Total)	<5 ug/l	1/4/02	
(1)	EPA Method 300.0 A			
	Chloride	2.5 mg/l	12/27/01	
	Bromide	<0.1 mg/l	12/27/01	
	Sulfate	6.2 mg/l	12/27/01	
	Nitrate as N	<0.1 mg/l	12/27/01	21:35
(1)	HACH 8000 COD			
	Chemical Oxygen Demand	14 mg/l	1/9/02	
(1)	SM 18 2320B, Alkalinity as CaCO3			
	Alkalinity	1.9 mg/l	1/2/02	
(1)	SM 18 3500C Hexavalent Chromium			
	Chromium, Hexavalent	<0.01 mg/l	12/27/01	10:05
(1)	SM 19 5310C TOC			
	Total Organic Carbon	11.3 mg/l	1/4/02	
(1)	SM-2540C Total Dissolved Solids			
	Total Dissolved Solids @ 180 C	<4 mg/l	12/31/01	
(1)	SM18 2120B, Color			
	Color	50 Units	12/27/01	11:45
(1)	SM19 2340B,Total Hardness as CaCO3			
	Hardness, Total	9.8 mg/l	1/2/02	

Sample ID: MW-12

Source: Tannery Road
LSL Sample ID: 0116196-002
Sample Matrix: NPW
Date Sampled: 12/26/2001

Parameter(s)	*Results*	*Units*	*Analysis Date and Time*
(1) EPA 200.7 Total Metals			
Boron	3.0	mg/l	1/2/02
Potassium	220	mg/l	1/7/02
Sodium	280	mg/l	1/7/02
Iron	54	mg/l	1/2/02
Manganese	0.40	mg/l	1/2/02
Magnesium	80	mg/l	1/2/02
Lead	0.018	mg/l	1/2/02

-- LABORATORY ANALYSIS REPORT --

	Cadmium	<0.01	mg/l	1/2/02
	Aluminum	1.8	mg/l	1/2/02
	Calcium	100	mg/l	1/2/02
	Antimony	<0.01	mg/l	1/2/02
	Arsenic	0.013	mg/l	1/2/02
	Beryllium	<0.01	mg/l	1/2/02
	Barium	0.40	mg/l	1/2/02
	Chromium	0.012	mg/l	1/2/02
	Copper	<0.01	mg/l	1/2/02
	Nickel	0.031	mg/l	1/2/02
	Selenium	<0.01	mg/l	1/2/02
	Silver	<0.01	mg/l	1/2/02
(¥)	**Thallium**	<0.1	mg/l	1/2/02
	(¥) Elevated detection limit due to matrix interference.			
	Zinc	0.071	mg/l	1/2/02
	Cobalt	0.012	mg/l	1/2/02
	Vanadium	0.020	mg/l	1/2/02
(1)	EPA 245.1 Mercury			
	Mercury	0.00027	mg/l	1/9/02
(1)	EPA 335.2 Total Cyanide			
	Cyanide, Total	<0.01	mg/l	1/3/02
(1)	EPA 350.1 Ammonia			
	Ammonia as N	270	mg/l	1/9/02
(1)	EPA 351.2 TKN as N			
	Total Kjeldahl Nitrogen	250	mg/l	1/8/02
(1)	EPA 405.1 BOD-5			
	Biochemical Oxygen Demand, 5 Day	25	mg/l	12/28/01 10:54
(1)	EPA 420.1 Recoverable Phenolics LL			
	Phenolics, Total Recoverable	0.020	mg/l	1/7/02
(1)	EPA 8260B TCL Volatiles (Modified)			
	Acetone	<10	ug/l	1/4/02
	Acrylonitrile	<20	ug/l	1/4/02
	Benzene	33	ug/l	1/4/02
	Bromochloromethane	<5	ug/l	1/4/02
	Bromodichloromethane	<5	ug/l	1/4/02
	Bromoform	<5	ug/l	1/4/02
	Bromomethane	<5	ug/l	1/4/02
	2-Butanone (MEK)	<10	ug/l	1/4/02
	Carbon disulfide	<5	ug/l	1/4/02
	Carbon tetrachloride	<5	ug/l	1/4/02

Delaware Engineering | Ed Fahrenkopf
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	Chlorobenzene	<5 ug/l	1/4/02
	Chloroethane	<5 ug/l	1/4/02
	Chloromethane	<5 ug/l	1/4/02
	Chloroform	<5 ug/l	1/4/02
	Dibromochloromethane	<5 ug/l	1/4/02
	1,2-Dibromo-3-chloropropane	<5 ug/l	1/4/02
	1,2-Dibromoethane(EDB)	<5 ug/l	1/4/02
	Dibromomethane	<5 ug/l	1/4/02
	1,2-Dichlorobenzene	<5 ug/l	1/4/02
	1,4-Dichlorobenzene	<5 ug/l	1/4/02
	trans-1,4-Dichloro-2-butene	<50 ug/l	1/4/02
	1,1-Dichloroethane	<5 ug/l	1/4/02
	1,2-Dichloroethane	<5 ug/l	1/4/02
	1,1-Dichloroethene	<5 ug/l	1/4/02
	cis-1,2-Dichloroethene	<5 ug/l	1/4/02
	trans-1,2-Dichloroethene	<5 ug/l	1/4/02
	1,2-Dichloropropane	<5 ug/l	1/4/02
	cis-1,3-Dichloropropene	<5 ug/l	1/4/02
	trans-1,3-Dichloropropene	<5 ug/l	1/4/02
	Ethyl benzene	<5 ug/l	1/4/02
	2-Hexanone	<10 ug/l	1/4/02
	Iodomethane (Methyl iodide)	<20 ug/l	1/4/02
	Methylene chloride	<10 ug/l	1/4/02
	4-Methyl-2-pentanone (MIBK)	<10 ug/l	1/4/02
	Styrene	<5 ug/l	1/4/02
	1,1,1,2-Tetrachloroethane	<5 ug/l	1/4/02
	1,1,2,2-Tetrachloroethane	<5 ug/l	1/4/02
	Tetrachloroethene	<5 ug/l	1/4/02
	Toluene	<5 ug/l	1/4/02
	1,1,1-Trichloroethane	<5 ug/l	1/4/02
	1,1,2-Trichloroethane	<5 ug/l	1/4/02
	Trichloroethene	<5 ug/l	1/4/02
	Trichlorofluoromethane (Freon 11)	<5 ug/l	1/4/02
	1,2,3-Trichloropropane	<5 ug/l	1/4/02
	Vinyl acetate	<20 ug/l	1/4/02
	Vinyl chloride	<5 ug/l	1/4/02
	Xylenes (Total)	26 ug/l	1/4/02
(1)	EPA Method 300.0 A		
	Chloride	330 mg/l	1/4/02
	Bromide	4.3 mg/l	12/27/01

-- LABORATORY ANALYSIS REPORT --

Delaware Engineering

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	Sulfate	<1 mg/l	12/27/01	
	Nitrate as N	<0.1 mg/l	12/27/01	22:27
(1)	HACH 8000 COD			
	Chemical Oxygen Demand	240 mg/l	1/9/02	
(1)	SM 18 2320B, Alkalinity as CaCO3			
	Alkalinity	1800 mg/l	1/2/02	
(1)	SM 18 3500C Hexavalent Chromium			
	Chromium, Hexavalent	<0.01 mg/l	12/27/01	10:05
(1)	SM 19 5310C TOC			
	Total Organic Carbon	120 mg/l	1/4/02	
(1)	SM-2540C Total Dissolved Solids			
	Total Dissolved Solids @ 180 C	2000 mg/l	12/27/01	
(1)	SM18 2120B, Color			
	Color	750 Units	12/27/01	11:45
(1)	SM19 2340B,Total Hardness as CaCO3			
	Hardness, Total	580 mg/l	1/2/02	

Sample ID: MW-9S

Source: Tannery Road

LSL Sample ID: 0116196-003

Sample Matrix: NPW

Date Sampled: 12/26/2001

Parameter(s)	*Results Units*	*Analysis Date and Time*
(1) EPA 200.7 Total Metals		
Boron	<0.5 mg/l	1/2/02
Potassium	4.6 mg/l	1/2/02
Sodium	43 mg/l	1/2/02
Iron	24 mg/l	1/2/02
Manganese	1.5 mg/l	1/2/02
Magnesium	28 mg/l	1/2/02
Lead	0.011 mg/l	1/2/02
Cadmium	<0.01 mg/l	1/2/02
Aluminum	12 mg/l	1/2/02
Calcium	110 mg/l	1/2/02
Antimony	<0.01 mg/l	1/2/02
Arsenic	0.016 mg/l	1/2/02
Beryllium	<0.01 mg/l	1/2/02
Barium	<0.2 mg/l	1/2/02
Chromium	0.020 mg/l	1/2/02
Copper	0.036 mg/l	1/2/02
Nickel	0.027 mg/l	1/2/02
Selenium	<0.01 mg/l	1/2/02
Silver	<0.01 mg/l	1/2/02

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	Thallium	<0.01	mg/l	1/2/02
	Zinc	0.063	mg/l	1/2/02
	Cobalt	<0.01	mg/l	1/2/02
	Vanadium	0.023	mg/l	1/2/02
(1)	EPA 245.1 Mercury			
	Mercury	<0.0002	mg/l	1/9/02
(1)	EPA 335.2 Total Cyanide			
	Cyanide, Total	<0.01	mg/l	1/3/02
(1)	EPA 350.1 Ammonia			
	Ammonia as N	0.21	mg/l	1/9/02
(1)	EPA 351.2 TKN as N			
	Total Kjeldahl Nitrogen	0.70	mg/l	1/8/02
(1)	EPA 405.1 BOD-5			
	Biochemical Oxygen Demand, 5 Day	<4	mg/l	12/28/01 10:57
(1)	EPA 420.1 Recoverable Phenolics LL			
	Phenolics, Total Recoverable	<0.002	mg/l	1/7/02
(1)	EPA 8260B TCL Volatiles (Modified)			
	Acetone	<10	ug/l	1/4/02
	Acrylonitrile	<20	ug/l	1/4/02
	Benzene	<5	ug/l	1/4/02
	Bromochloromethane	<5	ug/l	1/4/02
	Bromodichloromethane	<5	ug/l	1/4/02
	Bromoform	<5	ug/l	1/4/02
	Bromomethane	<5	ug/l	1/4/02
	2-Butanone (MEK)	<10	ug/l	1/4/02
	Carbon disulfide	<5	ug/l	1/4/02
	Carbon tetrachloride	<5	ug/l	1/4/02
	Chlorobenzene	<5	ug/l	1/4/02
	Chloroethane	<5	ug/l	1/4/02
	Chloromethane	<5	ug/l	1/4/02
	Chloroform	<5	ug/l	1/4/02
	Dibromochloromethane	<5	ug/l	1/4/02
	1,2-Dibromo-3-chloropropane	<5	ug/l	1/4/02
	1,2-Dibromoethane(EDB)	<5	ug/l	1/4/02
	Dibromomethane	<5	ug/l	1/4/02
	1,2-Dichlorobenzene	<5	ug/l	1/4/02
	1,4-Dichlorobenzene	<5	ug/l	1/4/02
	trans-1,4-Dichloro-2-butene	<50	ug/l	1/4/02
	1,1-Dichloroethane	<5	ug/l	1/4/02
	1,2-Dichloroethane	<5	ug/l	1/4/02

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	1,1-Dichloroethene	<5 ug/l	1/4/02	
	cis-1,2-Dichloroethene	<5 ug/l	1/4/02	
	trans-1,2-Dichloroethene	<5 ug/l	1/4/02	
	1,2-Dichloropropane	<5 ug/l	1/4/02	
	cis-1,3-Dichloropropene	<5 ug/l	1/4/02	
	trans-1,3-Dichloropropene	<5 ug/l	1/4/02	
	Ethyl benzene	<5 ug/l	1/4/02	
	2-Hexanone	<10 ug/l	1/4/02	
	Iodomethane (Methyl iodide)	<20 ug/l	1/4/02	
	Methylene chloride	<10 ug/l	1/4/02	
	4-Methyl-2-pentanone (MIBK)	<10 ug/l	1/4/02	
	Styrene	<5 ug/l	1/4/02	
	1,1,1,2-Tetrachloroethane	<5 ug/l	1/4/02	
	1,1,2,2-Tetrachloroethane	<5 ug/l	1/4/02	
	Tetrachloroethene	<5 ug/l	1/4/02	
	Toluene	<5 ug/l	1/4/02	
	1,1,1-Trichloroethane	<5 ug/l	1/4/02	
	1,1,2-Trichloroethane	<5 ug/l	1/4/02	
	Trichloroethene	<5 ug/l	1/4/02	
	Trichlorofluoromethane (Freon 11)	<5 ug/l	1/4/02	
	1,2,3-Trichloropropane	<5 ug/l	1/4/02	
	Vinyl acetate	<20 ug/l	1/4/02	
	Vinyl chloride	<5 ug/l	1/4/02	
	Xylenes (Total)	<5 ug/l	1/4/02	
(1)	EPA Method 300.0 A			
	Chloride	3.3 mg/l	12/27/01	
	Bromide	<0.1 mg/l	12/27/01	
	Sulfate	8.6 mg/l	12/27/01	
	Nitrate as N	0.17 mg/l	12/27/01	22:45
(1)	HACH 8000 COD			
	Chemical Oxygen Demand	75 mg/l	1/9/02	
(1)	SM 18 2320B, Alkalinity as CaCO3			
	Alkalinity	210 mg/l	1/2/02	
(1)	SM 18 3500C Hexavalent Chromium			
	Chromium, Hexavalent	<0.01 mg/l	12/27/01	10:05
(1)	SM 19 5310C TOC			
	Total Organic Carbon	32 mg/l	1/4/02	
(1)	SM-2540C Total Dissolved Solids			
	Total Dissolved Solids @ 180 C	430 mg/l	12/27/01	
(1)	SM18 2120B, Color			

Delaware Engineering		**Ed Fahrenkopf**	
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	Color	600	Units	12/27/01 11:45
(1)	SM19 2340B,Total Hardness as CaCO3			
	Hardness, Total	390	mg/l	1/2/02

Sample ID: MW-3S

Source:	**Tannery Road**	**LSL Sample ID:**	**0116196-004**
Sample Matrix:	**NPW**	**Date Sampled:**	**12/26/2001**

Parameter(s)	*Results*	*Units*	*Analysis Date and Time*
(1) EPA 200.7 Total Metals			
Boron	1.6	mg/l	1/2/02
Potassium	150	mg/l	1/7/02
Sodium	250	mg/l	1/2/02
Iron	30	mg/l	1/2/02
Manganese	0.91	mg/l	1/2/02
Magnesium	20	mg/l	1/2/02
Lead	<0.01	mg/l	1/2/02
Cadmium	<0.01	mg/l	1/2/02
Aluminum	1.0	mg/l	1/2/02
Calcium	73	mg/l	1/2/02
Antimony	<0.01	mg/l	1/2/02
Arsenic	<0.01	mg/l	1/2/02
Beryllium	<0.01	mg/l	1/2/02
Barium	0.61	mg/l	1/2/02
Chromium	0.015	mg/l	1/2/02
Copper	<0.01	mg/l	1/2/02
Nickel	0.019	mg/l	1/2/02
Selenium	<0.01	mg/l	1/2/02
Silver	<0.01	mg/l	1/2/02
Thallium	<0.01	mg/l	1/2/02
Zinc	0.025	mg/l	1/2/02
Cobalt	<0.01	mg/l	1/2/02
Vanadium	0.042	mg/l	1/2/02
(1) EPA 245.1 Mercury			
Mercury	0.00698	mg/l	1/9/02
(1) EPA 335.2 Total Cyanide			
Cyanide, Total	<0.01	mg/l	1/3/02
(1) EPA 350.1 Ammonia			
Ammonia as N	130	mg/l	1/9/02
(1) EPA 351.2 TKN as N			
Total Kjeldahl Nitrogen	120	mg/l	1/8/02

-- LABORATORY ANALYSIS REPORT --

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(1)	EPA 405.1 BOD-5			
	Biochemical Oxygen Demand, 5 Day	12 mg/l	12/28/01	11:01
(1)	EPA 420.1 Recoverable Phenolics LL			
	Phenolics, Total Recoverable	0.0034 mg/l	1/7/02	
(1)	EPA 8260B TCL Volatiles (Modified)			
	Acetone	<10 ug/l	1/4/02	
	Acrylonitrile	<20 ug/l	1/4/02	
	Benzene	<5 ug/l	1/4/02	
	Bromochloromethane	<5 ug/l	1/4/02	
	Bromodichloromethane	<5 ug/l	1/4/02	
	Bromoform	<5 ug/l	1/4/02	
	Bromomethane	<5 ug/l	1/4/02	
	2-Butanone (MEK)	<10 ug/l	1/4/02	
	Carbon disulfide	<5 ug/l	1/4/02	
	Carbon tetrachloride	<5 ug/l	1/4/02	
	Chlorobenzene	<5 ug/l	1/4/02	
	Chloroethane	<5 ug/l	1/4/02	
	Chloromethane	<5 ug/l	1/4/02	
	Chloroform	<5 ug/l	1/4/02	
	Dibromochloromethane	<5 ug/l	1/4/02	
	1,2-Dibromo-3-chloropropane	<5 ug/l	1/4/02	
	1,2-Dibromoethane(EDB)	<5 ug/l	1/4/02	
	Dibromomethane	<5 ug/l	1/4/02	
	1,2-Dichlorobenzene	<5 ug/l	1/4/02	
	1,4-Dichlorobenzene	<5 ug/l	1/4/02	
	trans-1,4-Dichloro-2-butene	<50 ug/l	1/4/02	
	1,1-Dichloroethane	<5 ug/l	1/4/02	
	1,2-Dichloroethane	<5 ug/l	1/4/02	
	1,1-Dichloroethene	<5 ug/l	1/4/02	
	cis-1,2-Dichloroethene	<5 ug/l	1/4/02	
	trans-1,2-Dichloroethene	<5 ug/l	1/4/02	
	1,2-Dichloropropane	<5 ug/l	1/4/02	
	cis-1,3-Dichloropropene	<5 ug/l	1/4/02	
	trans-1,3-Dichloropropene	<5 ug/l	1/4/02	
	Ethyl benzene	<5 ug/l	1/4/02	
	2-Hexanone	<10 ug/l	1/4/02	
	Iodomethane (Methyl iodide)	<20 ug/l	1/4/02	
	Methylene chloride	<10 ug/l	1/4/02	
	4-Methyl-2-pentanone (MIBK)	<10 ug/l	1/4/02	
	Styrene	<5 ug/l	1/4/02	

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1,1,1,2-Tetrachloroethane	<5	ug/l	1/4/02	
1,1,2,2-Tetrachloroethane	<5	ug/l	1/4/02	
Tetrachloroethene	<5	ug/l	1/4/02	
Toluene	<5	ug/l	1/4/02	
1,1,1-Trichloroethane	<5	ug/l	1/4/02	
1,1,2-Trichloroethane	<5	ug/l	1/4/02	
Trichloroethene	<5	ug/l	1/4/02	
Trichlorofluoromethane (Freon 11)	<5	ug/l	1/4/02	
1,2,3-Trichloropropane	<5	ug/l	1/4/02	
Vinyl acetate	<20	ug/l	1/4/02	
Vinyl chloride	<5	ug/l	1/4/02	
Xylenes (Total)	<5	ug/l	1/4/02	
(1) EPA Method 300.0 A				
Chloride	150	mg/l	1/4/02	
Bromide	0.79	mg/l	12/27/01	
Sulfate	79	mg/l	12/27/01	
Nitrate as N	<0.1	mg/l	12/27/01	23:03
(1) HACH 8000 COD				
Chemical Oxygen Demand	230	mg/l	1/9/02	
(1) SM 18 2320B, Alkalinity as CaCO3				
Alkalinity	860	mg/l	1/2/02	
(1) SM 18 3500C Hexavalent Chromium				
Chromium, Hexavalent	<0.01	mg/l	12/27/01	10:05
(1) SM 19 5310C TOC				
Total Organic Carbon	90	mg/l	1/4/02	
(1) SM-2540C Total Dissolved Solids				
Total Dissolved Solids @ 180 C	1200	mg/l	12/27/01	
(1) SM18 2120B, Color				
Color	750	Units	12/27/01	11:45
(1) SM19 2340B,Total Hardness as CaCO3				
Hardness, Total	260	mg/l	1/2/02	

Sample ID: MW-4S

Source: Tannery Road

LSL Sample ID: 0116196-005

Sample Matrix: NPW

Date Sampled: 12/26/2001

Parameter(s)	*Results*	*Units*	*Analysis Date and Time*	
(1) EPA 200.7 Total Metals				
Boron	<0.5	mg/l	1/2/02	
Potassium	14	mg/l	1/2/02	
Sodium	5.7	mg/l	1/2/02	
Iron	6.6	mg/l	1/2/02	

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	Manganese	0.38	mg/l	1/2/02
	Magnesium	4.0	mg/l	1/2/02
	Lead	<0.01	mg/l	1/2/02
	Cadmium	<0.01	mg/l	1/2/02
	Aluminum	1.1	mg/l	1/2/02
	Calcium	10	mg/l	1/2/02
	Antimony	<0.01	mg/l	1/2/02
	Arsenic	<0.01	mg/l	1/2/02
	Beryllium	<0.01	mg/l	1/2/02
	Barium	<0.2	mg/l	1/2/02
	Chromium	<0.01	mg/l	1/2/02
	Copper	<0.01	mg/l	1/2/02
	Nickel	<0.01	mg/l	1/2/02
	Selenium	<0.01	mg/l	1/2/02
	Silver	<0.01	mg/l	1/2/02
	Thallium	<0.01	mg/l	1/2/02
	Zinc	0.012	mg/l	1/2/02
	Cobalt	<0.01	mg/l	1/2/02
	Vanadium	<0.01	mg/l	1/2/02
(1)	EPA 245.1 Mercury			
	Mercury	<0.0002	mg/l	1/9/02
(1)	EPA 335.2 Total Cyanide			
	Cyanide, Total	<0.01	mg/l	1/9/02
(1)	EPA 350.1 Ammonia			
	Ammonia as N	3.1	mg/l	1/9/02
(1)	EPA 351.2 TKN as N			
	Total Kjeldahl Nitrogen	4.6	mg/l	1/8/02
(1)	EPA 405.1 BOD-5			
	(¥) **Biochemical Oxygen Demand, 5 Day**	<10	mg/l	12/28/01 11:05
	(¥) This result should be considered an estimate due to low oxygen depletion.			
(1)	EPA 420.1 Recoverable Phenolics LL			
	Phenolics, Total Recoverable	<0.002	mg/l	1/10/02
(1)	EPA 8260B TCL Volatiles (Modified)			
	Acetone	<10	ug/l	1/4/02
	Acrylonitrile	<20	ug/l	1/4/02
	Benzene	<5	ug/l	1/4/02
	Bromochloromethane	<5	ug/l	1/4/02
	Bromodichloromethane	<5	ug/l	1/4/02
	Bromoform	<5	ug/l	1/4/02
	Bromomethane	<5	ug/l	1/4/02

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2-Butanone (MEK)	<10 ug/l	1/4/02
Carbon disulfide	<5 ug/l	1/4/02
Carbon tetrachloride	<5 ug/l	1/4/02
Chlorobenzene	<5 ug/l	1/4/02
Chloroethane	<5 ug/l	1/4/02
Chloromethane	<5 ug/l	1/4/02
Chloroform	<5 ug/l	1/4/02
Dibromochloromethane	<5 ug/l	1/4/02
1,2-Dibromo-3-chloropropane	<5 ug/l	1/4/02
1,2-Dibromoethane(EDB)	<5 ug/l	1/4/02
Dibromomethane	<5 ug/l	1/4/02
1,2-Dichlorobenzene	<5 ug/l	1/4/02
1,4-Dichlorobenzene	<5 ug/l	1/4/02
trans-1,4-Dichloro-2-butene	<50 ug/l	1/4/02
1,1-Dichloroethane	<5 ug/l	1/4/02
1,2-Dichloroethane	<5 ug/l	1/4/02
1,1-Dichloroethene	<5 ug/l	1/4/02
cis-1,2-Dichloroethene	<5 ug/l	1/4/02
trans-1,2-Dichloroethene	<5 ug/l	1/4/02
1,2-Dichloropropane	<5 ug/l	1/4/02
cis-1,3-Dichloropropene	<5 ug/l	1/4/02
trans-1,3-Dichloropropene	<5 ug/l	1/4/02
Ethyl benzene	<5 ug/l	1/4/02
2-Hexanone	<10 ug/l	1/4/02
Iodomethane (Methyl iodide)	<20 ug/l	1/4/02
Methylene chloride	<10 ug/l	1/4/02
4-Methyl-2-pentanone (MIBK)	<10 ug/l	1/4/02
Styrene	<5 ug/l	1/4/02
1,1,1,2-Tetrachloroethane	<5 ug/l	1/4/02
1,1,2,2-Tetrachloroethane	<5 ug/l	1/4/02
Tetrachloroethene	<5 ug/l	1/4/02
Toluene	<5 ug/l	1/4/02
1,1,1-Trichloroethane	<5 ug/l	1/4/02
1,1,2-Trichloroethane	<5 ug/l	1/4/02
Trichloroethene	<5 ug/l	1/4/02
Trichlorofluoromethane (Freon 11)	<5 ug/l	1/4/02
1,2,3-Trichloropropane	<5 ug/l	1/4/02
Vinyl acetate	<20 ug/l	1/4/02
Vinyl chloride	<5 ug/l	1/4/02
Xylenes (Total)	<5 ug/l	1/4/02

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Project No.:
LSL Project No.: 0116196
Authorization:
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(1) EPA Method 300.0 A				
Chloride	5.6	mg/l	12/27/01	
Bromide	<0.1	mg/l	12/27/01	
Sulfate	27	mg/l	12/27/01	
Nitrate as N	<0.1	mg/l	12/27/01	23:56
(1) HACH 8000 COD				
Chemical Oxygen Demand	88	mg/l	1/9/02	
(1) SM 18 2320B, Alkalinity as CaCO3				
Alkalinity	23	mg/l	1/2/02	
(1) SM 18 3500C Hexavalent Chromium				
Chromium, Hexavalent	<0.01	mg/l	12/27/01	10:05
(1) SM 19 5310C TOC				
Total Organic Carbon	33	mg/l	1/4/02	
(1) SM-2540C Total Dissolved Solids				
Total Dissolved Solids @ 180 C	180	mg/l	12/27/01	
(1) SM18 2120B, Color				
Color	300	Units	12/27/01	11:45
(1) SM19 2340B,Total Hardness as CaCO3				
Hardness, Total	42	mg/l	1/2/02	

Sample ID: MW-7D

Source: Tannery Road
LSL Sample ID: 0116196-006
Sample Matrix: NPW
Date Sampled: 12/26/2001

Parameter(s)	*Results*	*Units*	*Analysis Date and Time*
(1) EPA 200.7 Total Metals			
Boron	<0.5	mg/l	1/2/02
Potassium	37	mg/l	1/7/02
Sodium	50	mg/l	1/2/02
Iron	40	mg/l	1/2/02
Manganese	0.70	mg/l	1/2/02
Magnesium	22	mg/l	1/2/02
Lead	<0.01	mg/l	1/2/02
Cadmium	<0.01	mg/l	1/2/02
Aluminum	1.2	mg/l	1/2/02
Calcium	65	mg/l	1/2/02
Antimony	<0.01	mg/l	1/2/02
Arsenic	<0.01	mg/l	1/2/02
Beryllium	<0.01	mg/l	1/2/02
Barium	0.43	mg/l	1/2/02
Chromium	<0.01	mg/l	1/2/02
Copper	0.022	mg/l	1/2/02

-- LABORATORY ANALYSIS REPORT --

Delaware Engineering		**Ed Fahrenkopf**	
		Phone Number:	**(518) 452-1290**
Project No.:		**LSL Project No.:**	**0116196**
Authorization:		**Report Date:**	**1/10/02**

	Nickel	<0.01	mg/l	1/2/02
	Selenium	<0.01	mg/l	1/2/02
	Silver	<0.01	mg/l	1/2/02
	Thallium	<0.01	mg/l	1/2/02
	Zinc	0.036	mg/l	1/2/02
	Cobalt	<0.01	mg/l	1/2/02
	Vanadium	0.013	mg/l	1/2/02
(1)	EPA 245.1 Mercury			
	Mercury	<0.0002	mg/l	1/9/02
(1)	EPA 335.2 Total Cyanide			
	Cyanide, Total	<0.01	mg/l	1/9/02
(1)	EPA 350.1 Ammonia			
	Ammonia as N	39	mg/l	1/9/02
(1)	EPA 351.2 TKN as N			
	Total Kjeldahl Nitrogen	39	mg/l	1/8/02
(1)	EPA 405.1 BOD-5			
	(¥) **Biochemical Oxygen Demand, 5 Day**	<20	mg/l	12/28/01 11:10
	(¥) This result should be considered an estimate due to low oxygen depletion.			
(1)	EPA 420.1 Recoverable Phenolics LL			
	Phenolics, Total Recoverable	0.0042	mg/l	1/10/02
(1)	EPA 8260B TCL Volatiles (Modified)			
	Acetone	<10	ug/l	1/4/02
	Acrylonitrile	<20	ug/l	1/4/02
	Benzene	17	ug/l	1/4/02
	Bromochloromethane	<5	ug/l	1/4/02
	Bromodichloromethane	<5	ug/l	1/4/02
	Bromoform	<5	ug/l	1/4/02
	Bromomethane	<5	ug/l	1/4/02
	2-Butanone (MEK)	<10	ug/l	1/4/02
	Carbon disulfide	<5	ug/l	1/4/02
	Carbon tetrachloride	<5	ug/l	1/4/02
	Chlorobenzene	5.8	ug/l	1/4/02
	Chloroethane	<5	ug/l	1/4/02
	Chloromethane	<5	ug/l	1/4/02
	Chloroform	<5	ug/l	1/4/02
	Dibromochloromethane	<5	ug/l	1/4/02
	1,2-Dibromo-3-chloropropane	<5	ug/l	1/4/02
	1,2-Dibromoethane(EDB)	<5	ug/l	1/4/02
	Dibromomethane	<5	ug/l	1/4/02
	1,2-Dichlorobenzene	<5	ug/l	1/4/02

Delaware Engineering

Ed Fahrenkopf

Phone Number: (518) 452-1290

Project No.:

LSL Project No.: 0116196

Authorization:

Report Date: 1/10/02

	1,4-Dichlorobenzene	<5	ug/l	1/4/02
	trans-1,4-Dichloro-2-butene	<50	ug/l	1/4/02
	1,1-Dichloroethane	<5	ug/l	1/4/02
	1,2-Dichloroethane	<5	ug/l	1/4/02
	1,1-Dichloroethene	<5	ug/l	1/4/02
	cis-1,2-Dichloroethene	<5	ug/l	1/4/02
	trans-1,2-Dichloroethene	<5	ug/l	1/4/02
	1,2-Dichloropropane	<5	ug/l	1/4/02
	cis-1,3-Dichloropropene	<5	ug/l	1/4/02
	trans-1,3-Dichloropropene	<5	ug/l	1/4/02
	Ethyl benzene	<5	ug/l	1/4/02
	2-Hexanone	<10	ug/l	1/4/02
	Iodomethane (Methyl iodide)	<20	ug/l	1/4/02
	Methylene chloride	<10	ug/l	1/4/02
	4-Methyl-2-pentanone (MIBK)	<10	ug/l	1/4/02
	Styrene	<5	ug/l	1/4/02
	1,1,1,2-Tetrachloroethane	<5	ug/l	1/4/02
	1,1,2,2-Tetrachloroethane	<5	ug/l	1/4/02
	Tetrachloroethene	<5	ug/l	1/4/02
	Toluene	<5	ug/l	1/4/02
	1,1,1-Trichloroethane	<5	ug/l	1/4/02
	1,1,2-Trichloroethane	<5	ug/l	1/4/02
	Trichloroethene	<5	ug/l	1/4/02
	Trichlorofluoromethane (Freon 11)	<5	ug/l	1/4/02
	1,2,3-Trichloropropane	<5	ug/l	1/4/02
	Vinyl acetate	<20	ug/l	1/4/02
	Vinyl chloride	<5	ug/l	1/4/02
	Xylenes (Total)	130	ug/l	1/4/02
(1)	EPA Method 300.0 A			
	Chloride	56	mg/l	12/28/01
	Bromide	0.64	mg/l	12/28/01
	Sulfate	52	mg/l	12/28/01
	Nitrate as N	<0.1	mg/l	12/28/01 0:13
(1)	HACH 8000 COD			
	Chemical Oxygen Demand	120	mg/l	1/9/02
(1)	SM 18 2320B, Alkalinity as CaCO3			
	Alkalinity	390	mg/l	1/2/02
(1)	SM 18 3500C Hexavalent Chromium			
	Chromium, Hexavalent	<0.01	mg/l	12/27/01 10:05
(1)	SM 19 5310C TOC			

Delaware Engineering

Ed Fahrenkopf
Phone Number: (518) 452-1290

Project No.:
LSL Project No.: 0116196

Authorization:
Report Date: 1/10/02

Total Organic Carbon	47 mg/l	1/4/02	
(1) SM-2540C Total Dissolved Solids			
Total Dissolved Solids @ 180 C	650 mg/l	12/27/01	
(1) SM18 2120B, Color			
Color	850 Units	12/27/01	11:45
(1) SM19 2340B,Total Hardness as CaCO3			
Hardness, Total	250 mg/l	1/2/02	

Sample ID: MW-5S

Source: Tannery Road
LSL Sample ID: 0116196-007

Sample Matrix: NPW
Date Sampled: 12/26/2001

Parameter(s)	*Results*	*Units*	*Analysis Date and Time*
(1) EPA 200.7 Total Metals			
Boron	<0.5	mg/l	1/2/02
Potassium	5.6	mg/l	1/2/02
Sodium	1.4	mg/l	1/2/02
Iron	6.1	mg/l	1/2/02
Manganese	1.4	mg/l	1/2/02
Magnesium	6.0	mg/l	1/2/02
Lead	<0.01	mg/l	1/2/02
Cadmium	<0.01	mg/l	1/2/02
Aluminum	0.41	mg/l	1/2/02
Calcium	35	mg/l	1/2/02
Antimony	<0.01	mg/l	1/2/02
Arsenic	<0.01	mg/l	1/2/02
Beryllium	<0.01	mg/l	1/2/02
Barium	<0.2	mg/l	1/2/02
Chromium	<0.01	mg/l	1/2/02
Copper	<0.01	mg/l	1/2/02
Nickel	<0.01	mg/l	1/2/02
Selenium	<0.01	mg/l	1/2/02
Silver	<0.01	mg/l	1/2/02
Thallium	<0.01	mg/l	1/2/02
Zinc	0.013	mg/l	1/2/02
Cobalt	<0.01	mg/l	1/2/02
Vanadium	<0.01	mg/l	1/2/02
(1) EPA 245.1 Mercury			
Mercury	<0.0002	mg/l	1/9/02
(1) EPA 335.2 Total Cyanide			
Cyanide, Total	<0.01	mg/l	1/9/02

-- LABORATORY ANALYSIS REPORT --

Delaware Engineering

Ed Fahrenkopf

Phone Number: (518) 452-1290

Project No.:

LSL Project No.: 0116196

Authorization:

Report Date: 1/10/02

(1)	EPA 350.1 Ammonia			
	Ammonia as N	0.43 mg/l	1/9/02	
(1)	EPA 351.2 TKN as N			
	Total Kjeldahl Nitrogen	0.62 mg/l	1/8/02	
(1)	EPA 405.1 BOD-5			
	Biochemical Oxygen Demand, 5 Day	<4 mg/l	12/28/01	11:12
(1)	EPA 420.1 Recoverable Phenolics LL			
	Phenolics, Total Recoverable	<0.002 mg/l	1/10/02	
(1)	EPA 8260B TCL Volatiles (Modified)			
	Acetone	<10 ug/l	1/4/02	
	Acrylonitrile	<20 ug/l	1/4/02	
	Benzene	<5 ug/l	1/4/02	
	Bromochloromethane	<5 ug/l	1/4/02	
	Bromodichloromethane	<5 ug/l	1/4/02	
	Bromoform	<5 ug/l	1/4/02	
	Bromomethane	<5 ug/l	1/4/02	
	2-Butanone (MEK)	<10 ug/l	1/4/02	
	Carbon disulfide	<5 ug/l	1/4/02	
	Carbon tetrachloride	<5 ug/l	1/4/02	
	Chlorobenzene	<5 ug/l	1/4/02	
	Chloroethane	<5 ug/l	1/4/02	
	Chloromethane	<5 ug/l	1/4/02	
	Chloroform	<5 ug/l	1/4/02	
	Dibromochloromethane	<5 ug/l	1/4/02	
	1,2-Dibromo-3-chloropropane	<5 ug/l	1/4/02	
	1,2-Dibromoethane(EDB)	<5 ug/l	1/4/02	
	Dibromomethane	<5 ug/l	1/4/02	
	1,2-Dichlorobenzene	<5 ug/l	1/4/02	
	1,4-Dichlorobenzene	<5 ug/l	1/4/02	
	trans-1,4-Dichloro-2-butene	<50 ug/l	1/4/02	
	1,1-Dichloroethane	<5 ug/l	1/4/02	
	1,2-Dichloroethane	<5 ug/l	1/4/02	
	1,1-Dichloroethene	<5 ug/l	1/4/02	
	cis-1,2-Dichloroethene	<5 ug/l	1/4/02	
	trans-1,2-Dichloroethene	<5 ug/l	1/4/02	
	1,2-Dichloropropane	<5 ug/l	1/4/02	
	cis-1,3-Dichloropropene	<5 ug/l	1/4/02	
	trans-1,3-Dichloropropene	<5 ug/l	1/4/02	
	Ethyl benzene	<5 ug/l	1/4/02	
	2-Hexanone	<10 ug/l	1/4/02	

-- LABORATORY ANALYSIS REPORT --

Delaware Engineering		Ed Fahrenkopf	
		Phone Number:	(518) 452-1290
Project No.:		LSL Project No.:	0116196
Authorization:		Report Date:	1/10/02

	Iodomethane (Methyl iodide)	<20 ug/l	1/4/02	
	Methylene chloride	<10 ug/i	1/4/02	
	4-Methyl-2-pentanone (MIBK)	<10 ug/l	1/4/02	
	Styrene	<5 ug/l	1/4/02	
	1,1,1,2-Tetrachloroethane	<5 ug/l	1/4/02	
	1,1,2,2-Tetrachloroethane	<5 ug/l	1/4/02	
	Tetrachloroethene	<5 ug/l	1/4/02	
	Toluene	<5 ug/l	1/4/02	
	1,1,1-Trichloroethane	<5 ug/l	1/4/02	
	1,1,2-Trichloroethane	<5 ug/l	1/4/02	
	Trichloroethene	<5 ug/l	1/4/02	
	Trichlorofluoromethane (Freon 11)	<5 ug/l	1/4/02	
	1,2,3-Trichloropropane	<5 ug/l	1/4/02	
	Vinyl acetate	<20 ug/l	1/4/02	
	Vinyl chloride	<5 ug/l	1/4/02	
	Xylenes (Total)	<5 ug/l	1/4/02	
(1)	EPA Method 300.0 A			
	Chloride	3.2 mg/l	12/28/01	
	Bromide	<0.1 mg/l	12/28/01	
	Sulfate	36 mg/l	12/28/01	
	Nitrate as N	<0.1 mg/l	12/28/01	0:31
(1)	HACH 8000 COD			
	Chemical Oxygen Demand	23 mg/l	1/9/02	
(1)	SM 18 2320B, Alkalinity as CaCO3			
	Alkalinity	68 mg/l	1/2/02	
(1)	SM 18 3500C Hexavalent Chromium			
	Chromium, Hexavalent	<0.01 mg/l	12/27/01	10:05
(1)	SM 19 5310C TOC			
	Total Organic Carbon	9.6 mg/l	1/4/02	
(1)	SM-2540C Total Dissolved Solids			
	Total Dissolved Solids @ 180 C	200 mg/l	12/27/01	
(1)	SM18 2120B, Color			
	Color	75 Units	12/27/01	11:45
(1)	SM19 2340B,Total Hardness as CaCO3			
	Hardness, Total	110 mg/l	1/2/02	

-- LABORATORY ANALYSIS REPORT --

Delaware Engineering

Ed Fahrenkopf
Phone Number: (518) 452-1290

Project No.:
LSL Project No.: 0116196
Authorization:
Report Date: 1/10/02

Sample ID: X-1

Source: Tannery Road
LSL Sample ID: 0116196-008
Sample Matrix: NPW
Date Sampled: 12/26/2001

Parameter(s)	*Results*	*Units*	*Analysis Date and Time*
(1) EPA 200.7 Total Metals			
Boron	1.0	mg/l	1/2/02
Potassium	36	mg/l	1/7/02
Sodium	51	mg/l	1/2/02
Iron	40	mg/l	1/2/02
Manganese	0.72	mg/l	1/2/02
Magnesium	23	mg/l	1/2/02
Lead	<0.01	mg/l	1/2/02
Cadmium	<0.01	mg/l	1/2/02
Aluminum	1.7	mg/l	1/2/02
Calcium	66	mg/l	1/2/02
Antimony	<0.01	mg/l	1/2/02
Arsenic	<0.01	mg/l	1/2/02
Beryllium	<0.01	mg/l	1/2/02
Barium	0.43	mg/l	1/2/02
Chromium	<0.01	mg/l	1/2/02
Copper	<0.01	mg/l	1/2/02
Nickel	<0.01	mg/l	1/2/02
Selenium	<0.01	mg/l	1/2/02
Silver	<0.01	mg/l	1/2/02
Thallium	<0.01	mg/l	1/2/02
Zinc	0.042	mg/l	1/2/02
Cobalt	<0.01	mg/l	1/2/02
Vanadium	0.014	mg/l	1/2/02
(1) EPA 245.1 Mercury			
Mercury	<0.0002	mg/l	1/9/02
(1) EPA 335.2 Total Cyanide			
Cyanide, Total	<0.01	mg/l	1/9/02
(1) EPA 350.1 Ammonia			
Ammonia as N	41	mg/l	1/9/02
(1) EPA 351.2 TKN as N			
Total Kjeldahl Nitrogen	42	mg/l	1/8/02
(1) EPA 405.1 BOD-5			
(¥) **Biochemical Oxygen Demand, 5 Day**	<10	mg/l	12/28/01 11:17
(¥) This result should be considered an estimate due to low oxygen depletion.			
(1) EPA 420.1 Recoverable Phenolics LL			

-- LABORATORY ANALYSIS REPORT --

Delaware Engineering		Ed Fahrenkopf	
		Phone Number:	(518) 452-1290
Project No.:		LSL Project No.:	0116196
Authorization:		Report Date:	1/10/02

Phenolics, Total Recoverable	0.0029	mg/l	1/10/02
(1) EPA 8260B TCL Volatiles (Modified)			
Acetone	<10	ug/l	1/4/02
Acrylonitrile	<20	ug/l	1/4/02
Benzene	16	ug/l	1/4/02
Bromochloromethane	<5	ug/l	1/4/02
Bromodichloromethane	<5	ug/l	1/4/02
Bromoform	<5	ug/l	1/4/02
Bromomethane	<5	ug/l	1/4/02
2-Butanone (MEK)	<10	ug/l	1/4/02
Carbon disulfide	<5	ug/l	1/4/02
Carbon tetrachloride	<5	ug/l	1/4/02
Chlorobenzene	5.9	ug/l	1/4/02
Chloroethane	<5	ug/l	1/4/02
Chloromethane	<5	ug/l	1/4/02
Chloroform	<5	ug/l	1/4/02
Dibromochloromethane	<5	ug/l	1/4/02
1,2-Dibromo-3-chloropropane	<5	ug/l	1/4/02
1,2-Dibromoethane(EDB)	<5	ug/l	1/4/02
Dibromomethane	<5	ug/l	1/4/02
1,2-Dichlorobenzene	<5	ug/l	1/4/02
1,4-Dichlorobenzene	<5	ug/l	1/4/02
trans-1,4-Dichloro-2-butene	<50	ug/l	1/4/02
1,1-Dichloroethane	<5	ug/l	1/4/02
1,2-Dichloroethane	<5	ug/l	1/4/02
1,1-Dichloroethene	<5	ug/l	1/4/02
cis-1,2-Dichloroethene	<5	ug/l	1/4/02
trans-1,2-Dichloroethene	<5	ug/l	1/4/02
1,2-Dichloropropane	<5	ug/l	1/4/02
cis-1,3-Dichloropropene	<5	ug/l	1/4/02
trans-1,3-Dichloropropene	<5	ug/l	1/4/02
Ethyl benzene	<5	ug/l	1/4/02
2-Hexanone	<10	ug/l	1/4/02
Iodomethane (Methyl iodide)	<20	ug/l	1/4/02
Methylene chloride	<10	ug/l	1/4/02
4-Methyl-2-pentanone (MIBK)	<10	ug/l	1/4/02
Styrene	<5	ug/l	1/4/02
1,1,1,2-Tetrachloroethane	<5	ug/l	1/4/02
1,1,2,2-Tetrachloroethane	<5	ug/l	1/4/02
Tetrachloroethene	<5	ug/l	1/4/02

Delaware Engineering | Ed Fahrenkopf
Phone Number: (518) 452-1290
Project No.: | LSL Project No.: 0116196
Authorization: | Report Date: 1/10/02

	Toluene	<5	ug/l	1/4/02
	1,1,1-Trichloroethane	<5	ug/l	1/4/02
	1,1,2-Trichloroethane	<5	ug/l	1/4/02
	Trichloroethene	<5	ug/l	1/4/02
	Trichlorofluoromethane (Freon 11)	<5	ug/l	1/4/02
	1,2,3-Trichloropropane	<5	ug/l	1/4/02
	Vinyl acetate	<20	ug/l	1/4/02
	Vinyl chloride	<5	ug/l	1/4/02
	Xylenes (Total)	140	ug/l	1/4/02
(1)	EPA Method 300.0 A			
	Chloride	58	mg/l	12/28/01
	Bromide	0.90	mg/l	12/28/01
	Sulfate	53	mg/l	12/28/01
	Nitrate as N	0.15	mg/l	12/28/01 0:48
(1)	HACH 8000 COD			
	Chemical Oxygen Demand	120	mg/l	1/9/02
(1)	SM 18 2320B, Alkalinity as CaCO3			
	Alkalinity	400	mg/l	1/2/02
(1)	SM 18 3500C Hexavalent Chromium			
	Chromium, Hexavalent	<0.01	mg/l	12/27/01 10:05
(1)	SM 19 5310C TOC			
	Total Organic Carbon	46	mg/l	1/4/02
(1)	SM-2540C Total Dissolved Solids			
	Total Dissolved Solids @ 180 C	640	mg/l	12/27/01
(1)	SM18 2120B, Color			
	Color	1200	Units	12/27/01 11:45
(1)	SM19 2340B,Total Hardness as CaCO3			
	Hardness, Total	260	mg/l	1/2/02

Sample ID: Trip Blank

Source: Tannery Road | **LSL Sample ID:** 0116196-009
Sample Matrix: TB | **Date Sampled:** 12/26/2001

Parameter(s)	*Results*	*Units*	*Analysis Date and Time*
(1) EPA 8260B TCL Volatiles (Modified)			
Acetone	<10	ug/l	1/4/02
Acrylonitrile	<20	ug/l	1/4/02
Benzene	<5	ug/l	1/4/02
Bromochloromethane	<5	ug/l	1/4/02
Bromodichloromethane	<5	ug/l	1/4/02
Bromoform	<5	ug/l	1/4/02
Bromomethane	<5	ug/l	1/4/02

Delaware Engineering

Ed Fahrenkopf

Phone Number: (518) 452-1290

Project No.:

LSL Project No.: 0116196

Authorization:

Report Date: 1/10/02

2-Butanone (MEK)	<10 ug/l	1/4/02
Carbon disulfide	<5 ug/l	1/4/02
Carbon tetrachloride	<5 ug/l	1/4/02
Chlorobenzene	<5 ug/l	1/4/02
Chloroethane	<5 ug/l	1/4/02
Chloromethane	<5 ug/l	1/4/02
Chloroform	<5 ug/l	1/4/02
Dibromochloromethane	<5 ug/l	1/4/02
1,2-Dibromo-3-chloropropane	<5 ug/l	1/4/02
1,2-Dibromoethane(EDB)	<5 ug/l	1/4/02
Dibromomethane	<5 ug/l	1/4/02
1,2-Dichlorobenzene	<5 ug/l	1/4/02
1,4-Dichlorobenzene	<5 ug/l	1/4/02
trans-1,4-Dichloro-2-butene	<50 ug/l	1/4/02
1,1-Dichloroethane	<5 ug/l	1/4/02
1,2-Dichloroethane	<5 ug/l	1/4/02
1,1-Dichloroethene	<5 ug/l	1/4/02
cis-1,2-Dichloroethene	<5 ug/l	1/4/02
trans-1,2-Dichloroethene	<5 ug/l	1/4/02
1,2-Dichloropropane	<5 ug/l	1/4/02
cis-1,3-Dichloropropene	<5 ug/l	1/4/02
trans-1,3-Dichloropropene	<5 ug/l	1/4/02
Ethyl benzene	<5 ug/l	1/4/02
2-Hexanone	<10 ug/l	1/4/02
Iodomethane (Methyl iodide)	<20 ug/l	1/4/02
Methylene chloride	<10 ug/l	1/4/02
4-Methyl-2-pentanone (MIBK)	<10 ug/l	1/4/02
Styrene	<5 ug/l	1/4/02
1,1,1,2-Tetrachloroethane	<5 ug/l	1/4/02
1,1,2,2-Tetrachloroethane	<5 ug/l	1/4/02
Tetrachloroethene	<5 ug/l	1/4/02
Toluene	<5 ug/l	1/4/02
1,1,1-Trichloroethane	<5 ug/l	1/4/02
1,1,2-Trichloroethane	<5 ug/l	1/4/02
Trichloroethene	<5 ug/l	1/4/02
Trichlorofluoromethane (Freon 11)	<5 ug/l	1/4/02
1,2,3-Trichloropropane	<5 ug/l	1/4/02
Vinyl acetate	<20 ug/l	1/4/02
Vinyl chloride	<5 ug/l	1/4/02
Xylenes (Total)	<5 ug/l	1/4/02

-- LABORATORY ANALYSIS REPORT --

Delaware Engineering	Ed Fahrenkopf
	Phone Number: (518) 452-1290
Project No.:	LSL Project No.: 0116196
Authorization:	Report Date: 1/10/02

Life Science Laboratories, Inc.

5854 Butternut Drive
East Syracuse, NY 13057

Phone # (315) 445-1105 Telefax # (315) 445-1301

Client: Delaware Engineering Phone # 518 452-1290

Address: 28 Madison Ave Ext Telefax # 518 452-1335

Albany NY ~~12207~~ 12203

Authorization:

Contact Person: Ed Fahrenkopf

Numbers at top of columns cross reference with numbers and analyses at right.

LSL Project #: 116196

Client's Site I.D.:

Client's Project I.D.: Tannery Road

LSL Sample Number	Client's Sample Identifications	Sample Date	Sample Time	Matrix	A 1	B 2	C 3	D 4	E 5	F 6	G 7	H 8	I 9	Preserv. Added	size/type	#	Analyses	Preserv. Check
001	MW-1S	12/26/01	3:36*	GW	X	X	X	X	X	X	X			H_2SO_4	500 ml	1	TKN, NH_3, COD, TOC	
002	MW-12		4:24*		X	X	X	X	X	X	X			None	1/2 gal	2	NO_3,BOD,TDS,SO_4,Chlor,Color,Cr+6,Br	
003	MW-9S		2:20*		X	X	X	X	X	X	X			H_2SO_4	Liter(g)	3	T,Phenols	
004	MW-3S		1:29*		X	X	X	X	X	X	X			HNO_3	Liter	4	Hard,B,K,Na,Fe,Mn,Mg,Pb,Cd,Al,Ca,Sb,As,Be,	
005	MW-4S		12:40		X	X	X	X	X	X	X						Ba,Cr,Cu,Hg,Ni,Se,Ag,Tl,Zn,Co,V	
006	MW-7D		10:46		X	X	X	X	X	X	X			Asc/NaOH	500 ml	5	Cn	
007	MW-5S		11:45		X	X	X	X	X	X	X			None	250 ml	6	Alkalinity	
008	X-1	↓		↓	X	X	X	X	X	X	X			HCL	40 ml	7	8260	
														-	-	8	Field Parameters	
009														HCL	40 ml		Trip Blank	

Notes and Hazard identifications:

BASELINE (new - 93)

* client confirmed times are pm LW

Custody Transfers

		Date	Time
Sampled By:	Brent Zimmer	12/26/01	4:40
Relinquished By:	Brent Zimmer	12/27/01	5:30
Relinquished By:		12/27/01	0910
Received for Lab By:	R. Dunbar		

Shipment Method:

Samples Received Intact: (Y) N 3.3°

APPENDIX C

SUMMARY 2001 GROUND WATER ELEVATION DATA

Table 4A
Water Level Elevation Data, Comparisons to MW-12
Tannery Road Landfill
Rome, New York

WELL	MEASURING POINT	DEPTH TO WATER (FT.)												
	ELEVATION (FT.)	1/12/2001	2/14/2001	3/19/2001	4/30/2001	5/21/2001	6/25/2001	8/6/2001	8/30/2001	9/27/2001	10/16/2001	11/28/2001	12/26/2001	1/16/2002
MW-1S	449.59	5.54	4.97	4.91	5.2	6.56	6.49	Dry	Dry	10	6.9	5.02	4.88	5.23
MW-2S	459.44	7.43	6.04	6.33	7.19	8.36	6	9.37	9.8	7.29	8.06	7.45	6.38	7.82
MW-3S	456.4	3.84	Frozen	3.48	3.91	4.7	3.52	5.62	6.18	3.7	4.11	3.89	3.59	3.66
MW-4S	456.19	4.18	3.65	3.86	3.97	4.73	3.82	6.2	6.89	4.6	4.76	4.45	3.87	4.17
MW-5S	457.15	4.92	4.23	4.42	4.9	5.78	6.73	7.23	8.16	6.18	6.66	4.92	4.52	4.81
MW-7S	452.25	9.22	8.28	8.52	7.37	8.11	7.68	10.61	11.38	10.8	10.63	9.54	8.63	9.33
MW-9S	456.38	3.91	3.78	3.73	4	4.77	3.69	6.09	6.75	3.99	4.23	3.99	3.89	3.93
MW-10	486.3	Well Damaged									34.85	34.63	34.57	35.02
MW-11	502.4	Well Damaged									51.68	51.61	51.5	51.83
MW-12	483.11	32.18	31.84	32.04	31.6	31.71	31.71	32.13	32.31	32.5	32.44	32.34	32.18	32.45
PZ-1	454.37	7.25	5.86	6.16	6.32	7.73	6.06	6.31	9.96	8.49	8.78	7.45	6.19	6.93

	WATER LEVEL ELEVATION (FT.)												
WELL	1/12/2001	2/14/2001	3/19/2001	4/30/2001	5/21/2001	6/25/2001	8/6/2001	8/30/2001	9/27/2001	10/16/2001	11/28/2001	12/26/2001	1/16/2002
MW-1S	444.05	444.62	444.68	444.39	443.03	443.1	Dry	Dry	439.59	442.69	444.57	444.71	444.36
MW-2S	452.01	453.4	453.11	452.25	451.08	453.44	450.07	449.64	452.15	451.38	451.99	453.06	451.62
MW-3S	452.56	Frozen	452.92	452.49	451.7	452.88	450.78	450.22	452.7	452.29	452.51	452.81	452.74
MW-4S	452.01	452.54	452.33	452.22	451.46	452.37	449.99	449.3	451.59	451.43	451.74	452.32	452.02
MW-5S	452.23	452.92	452.73	452.25	451.37	450.42	449.92	448.99	450.97	450.49	452.23	452.63	452.34
MW-7S	443.03	443.97	443.73	444.88	444.14	444.57	441.64	440.87	441.45	441.62	442.71	443.62	442.92
MW-9S	452.47	452.6	452.65	448.25	451.61	452.69	450.29	449.63	452.39	452.15	452.39	452.49	452.45
MW-10	Well Damaged									451.45	451.67	451.73	451.28
MW-11	Well Damaged									450.72	450.79	450.9	450.57
MW-12	450.93	451.27	451.07	451.51	451.4	451.4	450.98	450.8	450.61	450.67	450.77	450.93	450.66
PZ-1	447.12	448.51	448.21	448.05	446.64	448.31	448.06	444.41	445.88	445.59	446.92	448.18	447.44

	WATER LEVEL ELEVATION DIFFERENCE (FT.) RELATIVE TO MW-12												
WELL	1/12/2001	2/14/2001	3/19/2001	4/30/2001	5/21/2001	6/25/2001	8/6/2001	8/30/2001	9/27/2001	10/16/2001	11/28/2001	12/26/2001	1/16/2002
MW-1S	6.88	6.65	6.39	7.12	8.37	8.3	Dry	Dry	11.02	7.98	6.2	6.22	6.3
MW-2S	-1.08	-2.13	-2.04	-0.74	0.32	-2.04	0.91	1.16	-1.54	-0.71	-1.22	-2.13	-0.96
MW-3S	-1.63	Frozen	-1.85	-0.98	-0.3	-1.48	0.2	0.58	-2.09	-1.62	-1.74	-1.88	-2.08
MW-4S	-1.08	-1.27	-1.26	-0.71	-0.06	-0.97	0.99	1.5	-0.98	-0.76	-0.97	-1.39	-1.36
MW-5S	-1.3	-1.65	-1.66	-0.74	0.03	0.98	1.06	1.81	-0.36	0.18	-1.46	-1.7	-1.68
MW-7S	7.9	7.3	7.34	6.63	7.26	6.83	9.34	9.93	9.16	9.05	8.06	7.31	7.74
MW-9S	-1.54	-1.33	-1.58	3.26	-0.21	-1.29	0.69	1.17	-1.78	-1.48	-1.62	-1.56	-1.79
MW-10	Well Damaged									-0.78	-0.9	-0.8	-0.62
MW-11	Well Damaged									-0.05	-0.02	0.03	0.09
MW-12	0	0	0	0	0	0	0	0	0	0	0	0	0
PZ-1	3.81	2.76	2.86	3.46	4.76	3.09	2.92	6.39	4.73	5.08	3.85	2.75	3.22

Elevation - Feet above mean sea level

APPENDIX D

MONTHLY INSPECTION FORMS

TANNERY ROAD LANDFILL, ROME, NY
INSPECTION CHECKLIST

Date & Time: 1/12/01 9:22 Inspector: Brent Zimmer

Weather: Sunny

GENERAL INSPECTION - To Be Completed Monthly

		Notes Problems
General Site Condition:		
Gates - condition and locks for inner & outer gates:	OK	
Access Road - surface/paving/snow	OK	
Access Road - surface/paving/snow	OK	
Overall appearance (trash/litter)	OK	
Pump Station at Tannery Road: Condition:	OK	
Pump #1 Hours: 020244 Pump #2 Hours:	019006	
Leachate Collection System:		
Panel - note conditions and any alarms:	OK	
Autodialer - test	OK	Not tested

Totallizers (on Panel display at Tannery Rd)

RW-1 2546245 RW-3 2810257

RW-2 2989038 RW-4 442657

Panel/Wells on Landfill

Manholes along road - general condition, erosion, overflows	OK	
Pump Well No's 1, 2, 3 & 4 - Well head condition/integrity	OK	
Meter Pit - open lid, check heater, leaks, etc.	OK	
Panel note conditions and any alarms: OK	RW-3 Coil	

Totallizers (in meter pit)

RW-1 25400 RW-3 09080

RW-2 40889 RW-4 04699

Hour Meters

RW-1 071201[illegible] RW-3 123425

RW-2 073498 RW-4 068854

Landfill Cover Inspection		
Leachate seeps Any new seeps	NO	If YES, describe:
Western seep condition:	Good	
North seep condition:	Good	
Gas vents - general condition	OK	
- Unusual odors, list vents/describe.	None	
Flares ignited	OK	
Perimeter fence	OK	
Erosion/animal burrows	NO	If YES, describe:

TANNERY ROAD LANDFILL, ROME, NY
INSPECTION CHECKLIST

Date & Time: 11/20/08 9:30 Inspector: Brent Zimmer

Monitoring Well Water Level Data

WELL No	Measure Pt Elev.	Depth to Water (ft)	Groundwater Elevation (ft)	Well Condition
MW - 1S	449.59	5.54	444.06	Estimated (Water level would not read "Could see ripple in water)
MW - 2S	459.44	7.43	452.01	Good
MW - 3S	456.4	3.84	452.56	Good
MW - 4S	456.19	4.18	452.01	Good
MW - 5S	457.15	4.92	452.23	Good
MW - 7S	452.25	9.22	443.03	Good
MW - 9S	456.38	3.91	452.47	Good
MW - 10	488.29	Obstruction		
MW - 11	503.95	Obstruction		
MW - 12	483.11	32.18	450.93	Good
PZ - 1	454.37	7.25	447.12	Good

NOTES: O No Ignited Flares: Yes/No

O No

O No

O No

O No

O No

O No

TANNERY ROAD LANDFILL, ROME, NY
INSPECTION CHECKLIST

Date & Time: 2/14/2001 10:00 Inspector: Brent Zimmer
Weather: Overcast

GENERAL INSPECTION - To Be Completed Monthly

		Notes Problems
General Site Condition:		
Gates - condition and locks for inner & outer gates:	OK	
Access Road - surface/paving/snow	OK	ICE
Access Road - surface/paving/snow	OK	ICE
Overall appearance (trash/litter)	OK	
Pump Station at Tannery Road:	Condition: OK	
Pump #1 Hours: 21058	Pump #2 Hours: 19174	
Leachate Collection System:		
Panel - note conditions and any alarms: OK	Alarm RW-3, Meter Pit	
Autodialer - test	OK	Not performed

Totallizers (on Panel display at Tannery Rd)

RW-1 2601392 RW-3 2831587
RW-2 3100223 RW-4 442657

Panel/Wells on Landfill

Manholes along road - general condition, erosion, overflows	OK	
Pump Well No's 1, 2, 3 & 4 - Well head condition/integrity	OK	
Meter Pit - open lid, check heater, leaks, etc.	OK	Water in pit is almost over totalizers
Panel note conditions and any alarms: OK	Call RW-3	

Totallizers (in meter pit)

RW-1 25962 RW-3 09293
RW-2 42001 RW-4 04699

Hour Meters

RW-1 72739 RW-3 127301
RW-2 75216 RW-4 28852

Landfill Cover Inspection

Leachate seeps Any new seeps NO If YES, describe:
Western seep condition: Good
North seep condition: Good
Gas vents - general condition OK
- Unusual odors, list vents/describe. None
Flares ignited OK 4 OFF 3 ON Details on page 2
Perimeter fence OK
Erosion/animal burrows NO If YES, describe:

TANNERY ROAD LANDFILL, ROME, NY
INSPECTION CHECKLIST

Date & Time: 2/14/2001 10:00 Inspector: Brent Zimmer

Monitoring Well Water Level Data

WELL No	Measure Pt Elev.	Depth to Water (ft)	Groundwater Elevation (ft)	Well Condition
MW - 1S	449.59	4.97	444.62	Good
MW - 2S	459.44	6.04	453.40	Good
MW - 3S	456.4	Frozen	—	Good
MW - 4S	456.19	3.65	452.54	Good
MW - 5S	457.15	4.23	452.92	Good
MW - 7S	452.25	8.28	443.97	Good
MW - 9S	456.38	3.78	462.60	Good
MW - 10	488.29	Obstruction		
MW - 11	503.95	Obstruction		
MW - 12	483.11	31.84	461.27	Good
PZ - 1	454.37	5.86	448.51	Good

NOTES: O ON Ignited Flares: Yes/No

O OFF

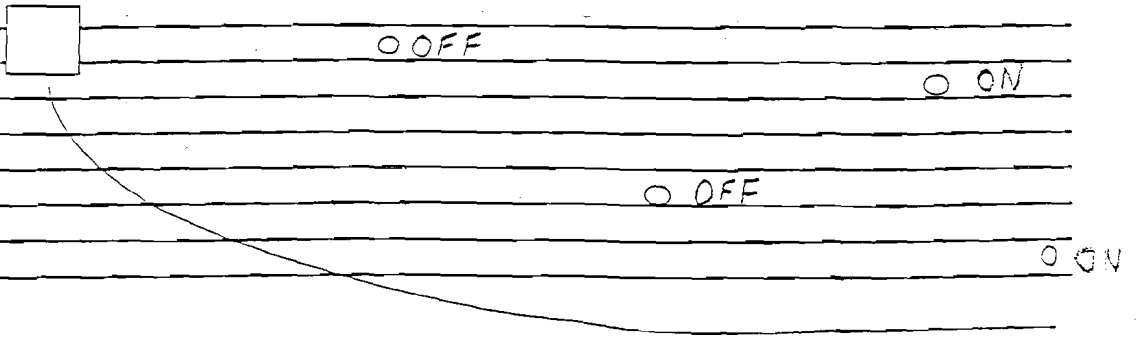
O OFF

O OFF

O ON

O OFF

O ON



TANNERY ROAD LANDFILL, ROME, NY
INSPECTION CHECKLIST

Date & Time: 3/8/2001 10:00 Inspector: Brent Zimmer
Weather: Sunny

GENERAL INSPECTION - To Be Completed Monthly

		Notes Problems
General Site Condition:		
Gates - condition and locks for inner & outer gates:	OK	
Access Road - surface/paving/snow	OK	
Access Road - surface/paving/snow	OK	
Overall appearance (trash/litter)	OK	
Pump Station at Tannery Road: Condition:	OK	
Pump #1 Hours: 21572 Pump #2 Hours:	19604	
Leachate Collection System:		
Panel - note conditions and any alarms:	OK	
Autodialer - test	OK	Not Performed

Totallizers (on Panel display at Tannery Rd)

RW-1 2657661 RW-3 2831537
RW-2 3213335 RW-4 442657

Panel/Wells on Landfill

Manholes along road - general condition, erosion, overflows	OK	
Pump Well No's 1, 2, 3 & 4 - Well head condition/integrity	OK	
Meter Pit - open lid, check heater, leaks, etc.	OK	
Panel note conditions and any alarms:	OK	RW-3 RW-4 Call

Totallizers (in meter pit)

RW-1 26524 RW-3 09293
RW-2 43132 RW-4 04699

Hour Meters

RW-1 74262 RW-3 135222
RW-2 76973 RW-4 28852

Landfill Cover Inspection		
Leachate seeps Any new seeps	NO	If YES, describe:
Western seep condition:		Good
North seep condition:		Good
Gas vents - general condition	OK	
- Unusual odors, list vents/describe.		None
Flares ignited	OK	None ignited
Perimeter fence	OK	
Erosion/animal burrows	NO	If YES, describe:

TANNERY ROAD LANDFILL, ROME, NY
INSPECTION CHECKLIST

Date & Time: 3/15/2001 10:00 Inspector: Brent Zimmer

Monitoring Well Water Level Data

WELL No	Measure Pt Elev.	Depth to Water (ft)	Groundwater Elevation (ft)	Well Condition
MW - 1S	449.59	4.91	444.68	Good
MW - 2S	459.44	6.33	453.11	Good
MW - 3S	456.4	3.48	452.92	Good
MW - 4S	456.19	3.86	452.33	Good
MW - 5S	457.15	4.42	452.73	Good
MW - 7S	452.25	8.52	443.73	Good
MW - 9S	456.38	3.73	452.65	Good
MW - 10	488.29	Obstruction		
MW - 11	503.95	Obstruction		
MW - 12	483.11	32.04	451.07	Good
PZ - 1	454.37	6.16	448.21	Good

NOTES: O No Ignited Flares: Yes/No

O No

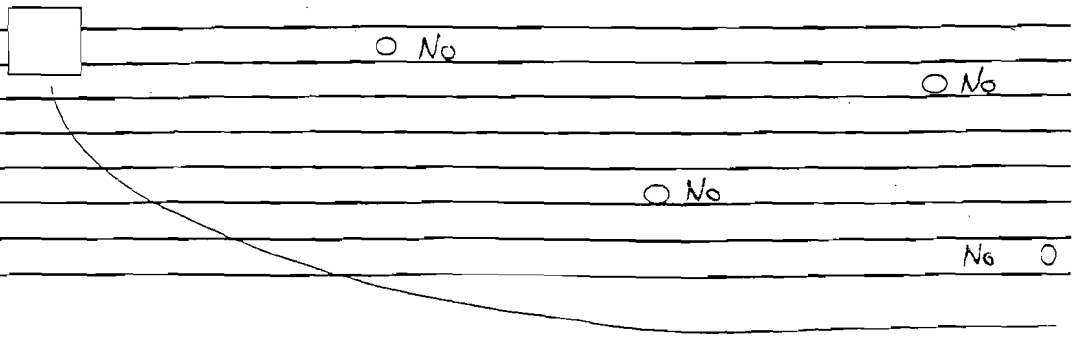
O No

O No

O No

O No

No O



TANNERY ROAD LANDFILL, ROME, NY
INSPECTION CHECKLIST

Date & Time: 4/30/01 1030 Inspector: Ed Fahrenkopf
Weather: Sunny, light wind 65°F

GENERAL INSPECTION - To Be Completed Monthly

		Notes Problems
General Site Condition:		
Gates - condition and locks for inner & outer gates:	OK ✓	
Access Road - surface/paving/snow	OK ✓	
	OK ✓	
Overall appearance (trash/litter)	OK ✓	
Pump Station at Tannery Road: Condition:	OK ✓	
Pump #1 Hours: 2228.7 Pump #2 Hours: 20203		
Leachate Collection System:		
Panel - note conditions and any alarms:	OK RW-3 Alarm is on	
Autodialer - test	OK	

Totallizers (on Panel display at Tannery Rd)

RW-1 2730154 RW-3 2831587
RW-2 3357145 RW-4 442657

Panel/Wells on Landfill

Manholes along road - general condition, erosion, overflows	OK ✓	
Pump Well No's 1, 2, 3 & 4 - Well head condition/integrity	OK ✓	
Meter Pit - open lid, check heater, leaks, etc.	OK ✓	
Panel note conditions and any alarms:	OK	

Totallizers (in meter pit)

RW-1 27249 RW-3 09293
RW-2 44570 RW-4 04699

Hour Meters

RW-1 76214 RW-3 145298
RW-2 79199 RW-4 25852

Landfill Cover Inspection

Leachate seeps Any new seeps	NO	If YES, describe:
Western seep condition:		Good some leachate at surface
North seep condition:		Good
Gas vents - general condition		OK
Unusual odors, list vents/describe.		None
Flares ignited		OK
Perimeter fence		OK
Erosion/animal burrows	(NO)	If YES, describe:

Note: Manhole east side of landfill is ~~lost~~ damaged and off the hinges
Manhole south side of landfill near MW-5 is damaged and off hinges

TANNERY ROAD LANDFILL, ROME, NY
INSPECTION CHECKLIST

Date & Time: 4/30/01 1030 Inspector: Ed Fahrenkopf

Monitoring Well Water Level Data

WELL No	Measure Pt Elev.	Depth to Water (ft)	Groundwater Elevation (ft)	Well Condition
MW - 1S	449.59	5.20		OK
MW - 2S	459.44	7.19		OK
MW - 3S	456.4	3.91		OK
MW - 4S	456.19	3.97		OK
MW - 5S	457.15	4.90		OK
MW - 7S	452.25	7.37		OK
MW - 9S	456.38	4.00		OK
MW - 10	488.29			obstruction
MW - 11	503.95			obstruction
MW - 12	483.11	31.60		OK
PZ - 1	454.37	6.32		OK

NOTES:

yes

NO

NO

yes yes

NO yes

TANNERY ROAD LANDFILL, ROME, NY
INSPECTION CHECKLIST

Date & Time: 5/21/a Inspector: EGF

Weather: Cloudy Light wind 55°

GENERAL INSPECTION - To Be Completed Monthly

		Notes Problems
General Site Condition:		
Gates - condition and locks for inner & outer gates:	OK	ok
Access Road - surface/paving/snow	OK	ok
Overall appearance (trash/litter)	OK	ok
Pump Station at Tannery Road: Condition:	OK	
Pump #1 Hours: 2257.6 Pump #2 Hours:		2044.4
Leachate Collection System:		
Panel - note conditions and any alarms:	OK	RW-3 ALARM ON
Autodialer - test	OK	

Totallizers (on Panel display at Tannery Rd)

RW-1 2766425 RW-3 283158?

RW-2 2427740 RW-4 442657

Panel/Wells on Landfill

Manholes along road - general condition, erosion, overflows	OK	ok
Pump Well No's 1, 2, 3 & 4 - Well head condition/integrity	OK	ok
Meter Pit - open lid, check heater, leaks, etc.	OK	ok
Panel note conditions and any alarms:	OK	RW-3 Light on

Totallizers (in meter pit)

RW-1 27612 RW-3 09293

RW-2 45276 RW-4 04699

Hour Meters

RW-1 7720.7 RW-3 15035.8

RW-2 8029.9 RW-4 2885.2

Landfill Cover Inspection

Leachate seeps Any new seeps (NO) If ~~YES~~, describe:

Western seep condition: present - staining

North seep condition: staining present

Gas vents - general condition OK NO odors

- Unusual odors, list vents/describe.

Flares ignited OK

Perimeter fence Man gates broken OK

Erosion/animal burrows (NO) If YES, describe:

TANNERY ROAD LANDFILL, ROME, NY
INSPECTION CHECKLIST

Date & Time: 5/21/01 Inspector: GGF

Monitoring Well Water Level Data

WELL No	Measure Pt Elev.	Depth to Water (ft)	Groundwater Elevation (ft)	Well Condition
MW - 1S	449.59	6.56	443.03	OK
MW - 2S	459.44	8.36	451.08	OK
MW - 3S	456.4	4.70	451.7	OK
MW - 4S	456.19	4.73	451.46	OK
MW - 5S	457.15	5.78	451.37	OK
MW - 7S	452.25	8.11	444.14	OK
MW - 9S	456.38	4.77	451.61	ok
MW - 10	488.29			obstructed
MW - 11	503.95			obstructed
MW - 12	483.11	31.71	451.4	OK
PZ - 1*	GGF 454.37 ~~452~~	7.73	~~444.27~~ GGF 446.64	OK

* PZ-1 elevation needs to be surveyed, elevation is estimated.

NOTES:

N

yes

yes

yes

no

no

no

yes

TANNERY ROAD LANDFILL, ROME, NY
INSPECTION CHECKLIST

Date & Time: 6/25/01 Inspector: EGF

Weather: Sunny 65° F

GENERAL INSPECTION - To Be Completed Monthly

		Notes Problems
General Site Condition:		
Gates - condition and locks for inner & outer gates:	OK	✓
Access Road - surface/paving/snow	OK	✓
Overall appearance (trash/litter)	OK	✓
Pump Station at Tannery Road: Condition:	OK	
Pump #1 Hours: 23083 Pump #2 Hours:		20865
Leachate Collection System:		
Panel - note conditions and any alarms:	OK	✓
Autodialer - test	OK	—

Totallizers (on Panel display at Tannery Rd)

RW-1 2824254 RW-3 2873934

RW-2 3541725 RW-4 442657

Panel/Wells on Landfill

Manholes along road - general condition, erosion, overflows	OK	✓
Pump Well No's 1, 2, 3 & 4 - Well head condition/integrity	OK	
Meter Pit - open lid, check heater, leaks, etc.	OK	✓
Panel note conditions and any alarms:	OK	

Totallizers (in meter pit)

RW-1 2819100 RW-3 09608700

RW-2 4041800 RW-4 04b9900

Hour Meters

RW-1 78787 RW-3 152297

RW-2 82075 RW-4 28852

Landfill Cover Inspection

Leachate seeps Any new seeps	(NO)	If YES, describe:
Western seep condition:		
North seep condition:		
Gas vents - general condition	(OK)	
- Unusual odors, list vents/describe.		
Flares ignited 4 of 7	OK	
Perimeter fence Man gates off hinges	OK	
Erosion/animal burrows (NO)	If YES, describe:	

TANNERY ROAD LANDFILL, ROME, NY
INSPECTION CHECKLIST

Date & Time: 6/25/01 Inspector: EGF

Monitoring Well Water Level Data

WELL No	Measure Pt Elev.	Depth to Water (ft)	Groundwater Elevation (ft)	Well Condition
MW - 1S	449.59	6.49	443.1	
MW - 2S	459.44	6.0	453.44	
MW - 3S	456.4	3.52	452.88	
MW - 4S	456.19	3.82	452.37	
MW - 5S	457.15	6.73	450.42	
MW - 7S	452.25	7.68	444.57	
MW - 9S	456.38	3.69	452.69	
MW - 10	488.29	obstr.		
MW - 11	503.95	obstr.		
MW - 12	483.11	31.71 ~~12.91~~	~~469.2~~ 451.4	EGF
PZ - 1	454.37	6.06	448.31	

NOTES:

@ NO

YES

YES

@ NO

NO

@ YES

TANNERY ROAD LANDFILL, ROME, NY
INSPECTION CHECKLIST

Date & Time: 8/6/01 Inspector: EGF

Weather: Mostly Sony Humid 80°F

GENERAL INSPECTION - To Be Completed Monthly

		Notes Problems
General Site Condition:		
Gates - condition and locks for inner & outer gates:	OK	✓
Access Road - surface/paving/snow	OK	✓
Overall appearance (trash/litter)	OK	✓
Pump Station at Tannery Road: Condition:	OK	✓
Pump #1 Hours: 02694 Pump #2 Hours: 02367		
Leachate Collection System:		
Panel - note conditions and any alarms:	OK	✓
Autodialer - test	OK	NA

Totallizers (on Panel display at Tannery Rd)

RW-1 2893990 RW-3 2913584

RW-2 3699101 RW-4 442659

Panel/Wells on Landfill

Manholes along road - general condition, erosion, overflows	OK	✓
Pump Well No's 1, 2, 3 & 4 - Well head condition/integrity	OK	✓
Meter Pit - open lid, check heater, leaks, etc.	OK	✓
Panel note conditions and any alarms:	OK	Alarm RW3

Totallizers (in meter pit)

RW-1 2888700 RW-3 1017300

RW-2 4779000 RW-4 469900

Hour Meters

RW-1 80679 RW-3 153754

RW-2 84881 RW-4 28952

Landfill Cover Inspection

Leachate seeps Any new seeps (NO) If YES, describe: None observed

Western seep condition: Dry

North seep condition: Dry

Gas vents - general condition OK ✓

- Unusual odors, list vents/describe.

Flares ignited not all of them (one not lighted) OK

Perimeter fence OK except mangates OK

Erosion/animal burrows (NO) If YES, describe:

Slight H_2S odor

TANNERY ROAD LANDFILL, ROME, NY
INSPECTION CHECKLIST

Date & Time: 8/6/01 Inspector: GCF

Monitoring Well Water Level Data

WELL No	Measure Pt Elev.	Depth to Water (ft)	Groundwater Elevation (ft)	Well Condition
MW - 1S	449.59	dry at 11.0 ft		
MW - 2S	459.44	9.37	450.07	
MW - 3S	456.4	5.62	450.78	
MW - 4S	456.19	6.20	449.99	
MW - 5S	457.15	7.23	449.92	
MW - 7S	452.25	10.61	441.64	
MW - 9S	456.38	6.09	450.29	
MW - 10	488.29	obst.	–	obstructed
MW - 11	503.95	obst.	–	obstructed
MW - 12	483.11	32.13	450.98	
PZ - 1	454.37	6.31	448.06	

Note MW-10 8.27 WL

NOTES:

(L) (L) (L) (L)

(N) (L) (L)

TANNERY ROAD LANDFILL, ROME, NY
INSPECTION CHECKLIST

Date & Time: August 30, 2001 Inspector: ECF
Weather: cloudy 80°F

GENERAL INSPECTION - To Be Completed Monthly

		Notes Problems
General Site Condition:		
Gates - condition and locks for inner & outer gates:	OK	✓
Access Road - surface/paving/snow	OK	✓
Overall appearance (trash/litter)	OK	✓
Pump Station at Tannery Road: Condition:	OK	✓
Pump #1 Hours: 2397.9 Pump #2 Hours: 2159.9		
Leachate Collection System:		
Panel - note conditions and any alarms:	OK ✓	RW-4
Autodialer - test	OK	—

Totallizers (on Panel display at Tannery Rd)

RW-1 2931437 RW-3 2945561
RW-2 3751665 RW-4 442659

Panel/Wells on Landfill

Manholes along road - general condition, erosion, overflows	OK	✓
Pump Well No's 1, 2, 3 & 4 - Well head condition/integrity	OK	✓
Meter Pit - open lid, check heater, leaks, etc.	OK	✓
Panel note conditions and any alarms: OK	✓	

Totallizers (in meter pit)

RW-1 2926200 RW-3 1043300
RW-2 4851500 RW-4 469900

Hour Meters

RW-1 81693 RW-3 154525
RW-2 85286 RW-4 28852

Landfill Cover Inspection

Leachate seeps Any new seeps NO	If YES, describe:	NO
Western seep condition:		dry
North seep condition:		dry
Gas vents - general condition	OK	
- Unusual odors, list vents/describe.		
Flares ignited	OK	
Perimeter fence	OK	✓ except man gates off hinges
Erosion/animal burrows (NO)	If YES, describe:	One small burrow north side of landfill near gas vent 32

TANNERY ROAD LANDFILL, ROME, NY
INSPECTION CHECKLIST

Date & Time: 8/30/01 Inspector: ECT

Monitoring Well Water Level Data

WELL No	Measure Pt Elev.	Depth to Water (ft)	Groundwater Elevation (ft)	Well Condition
MW - 1S	449.59	Dry	Dry	
MW - 2S	459.44	9.80	449.64	
MW - 3S	456.4	6.18	450.22	
MW - 4S	456.19	6.89	449.30	
MW - 5S	457.15	8.16	448.99	
MW - 7S	452.25	11.38	440.87	
MW - 9S	456.38	6.75	449.63	
MW - 10	488.29	obstruction	—	
MW - 11	503.95	obstruction	—	
MW - 12	483.11	32.31	450.80	
PZ - 1	454.37	9.96	444.41	

NOTES: Flares

Lite Lite Lite

Lite Lite

Lite

TANNERY ROAD LANDFILL, ROME, NY
INSPECTION CHECKLIST

Date: 8/30/01 Inspector: GEF
Weather: Partly Sunny 80°F

ANNUAL GAS VENT INSPECTION (To be completed each Fall)

Gas Vent Number	H_2S (ppm)	Detectable Odors Yes	Detectable Odors No	General Vent Condition Notes/Comments
1	0	✓		methane ~~3.0~~ 1.55
2	0	✓		methane 3.0
3	0	✓		methane 3.15
4	1	✓		Methane 3.25
5	0	✓		methane 4.7
6	3	✓		methane 4.0
7	-			Flare
8	-			Flare
9	0	✓		Methane 3.9
10	-			Flare
11	-			Flare
12	-			Flare
13	-			Flare
14	0	✓		Methane 3.55
15	-			Flare
16	0	✓		Methane 2.55
17	0	✓		Methane 2.85
18	0	✓		methane 75.0
19	0	✓		methane ~~75~~ 75.0
20	0	✓		methane >5.0
21	0	✓		Methane 75.0
22	0	✓		Methane 75.0
23	0	✓		Methane >75.0
24	0	✓		Methane 75.0
25	0	✓		methane 75.0

Methane units = %

TANNERY ROAD LANDFILL, ROME, NY
INSPECTION CHECKLIST

Date: 8/30/01 Inspector: CLF
Weather: Sunny 85°F

ANNUAL GAS VENT INSPECTION (To be completed each Fall)

Gas Vent Number	H_2S (ppm)	Detectable Odors Yes	Detectable Odors No	General Vent Condition Notes/Comments
26	1	✓		methane > 5.0
27	0	✓		methane 1.3
28	0	✓		methane >5.0
29	0	✓		Methane >5.0
30	0	✓		methane >5.0
31	0	✓		methane >5.0
32	0	✓		Methane >5.0
33	0	✓		Methane 1.4
34	0	✓		methane 1.4
35	0	✓		methane >5.0
36	0	✓		methane >5.0
37	0	✓		methane >5.0
38	5	✓		methane >5.0
39	0	✓		methane 2.5
40	0	✓		methane >5.0
41	3	✓		methane >5.0
42	2	✓		Methane >5.0
43	3	✓		methane >5.0
44	0	✓		methane >5.0
45	0	✓		methane >5.0
46	0	✓		methane 0.8

methane units = %

TANNERY ROAD LANDFILL, ROME, NY
INSPECTION CHECKLIST

Date & Time: 9/27/01 Inspector: EGF

Weather: Cloudy 50°F

GENERAL INSPECTION - To Be Completed Monthly

		Notes Problems
General Site Condition:		
Gates - condition and locks for inner & outer gates:	OK	✓
Access Road - surface/paving/snow	OK	✓
Overall appearance (trash/litter)	OK	✓
Pump Station at Tannery Road: Condition:	OK	✓
Pump #1 Hours: 024869 Pump #2 Hours:		021829
Leachate Collection System:		
Panel - note conditions and any alarms:	OK	✓
Autodialer - test	OK	✓
Totallizers (on Panel display at Tannery Rd)		
RW-1 297213 RW-3		2973924
RW-2 3830176 RW-4		442659
Panel/Wells on Landfill		
Manholes along road - general condition, erosion, overflows	OK	✓
Pump Well No's 1, 2, 3 & 4 - Well head condition/integrity	OK	✓
Meter Pit - open lid, check heater, leaks, etc.	OK	✓
Panel note conditions and any alarms:	OK	✓
Totallizers (in meter pit)		
RW-1 2968000 RW-3		1071500
RW-2 4930200 RW-4		0469900
Hour Meters		
RW-1 082803 RW-3		155358
RW-2 086480 RW-4		28852
Landfill Cover Inspection		
Leachate seeps Any new seeps	NO	If YES, describe:
Western seep condition:		ok none observed
North seep condition:		OK none observed
Gas vents - general condition		OK
- Unusual odors, list vents/describe.		
Flares ignited all but one		OK —
Perimeter fence		OK Mangate on southside broken
Erosion/animal burrows	NO	If YES, describe:

TANNERY ROAD LANDFILL, ROME, NY
INSPECTION CHECKLIST

Date & Time: 9/27/01 Inspector: EGF

Monitoring Well Water Level Data

WELL No	Measure Pt Elev.	Depth to Water (ft)	Groundwater Elevation (ft)	Well Condition
MW - 1S	449.59	10.0	439.59	
MW - 2S	459.44	7.29	452.15	
MW - 3S	456.4	3.70	452.7	
MW - 4S	456.19	4.60	451.59	
MW - 5S	457.15	6.18	450.97	
MW - 7S	452.25	10.8	441.45	
MW - 9S	456.38	3.99	452.39	
MW - 10	488.29	Obstr.		
MW - 11	503.95	Obstr.		
MW - 12	483.11	32.5	450.61	
PZ - 1	454.37	8.49	445.88	

NOTES:

Flares OK OK not on
0 0 0
OK OK OK
0 0 0
0 OK

Maintenance personnel on-site working on Flares

TANNERY ROAD LANDFILL, ROME, NY
INSPECTION CHECKLIST

Date & Time: 10/16/2001 11:27 Inspector: Brent Zimmer

Weather: Sunny

GENERAL INSPECTION - To Be Completed Monthly

		Notes Problems
General Site Condition:		
Gates - condition and locks for inner & outer gates:	OK	
Access Road - surface/paving/snow	OK	
Access Road - surface/paving/snow	OK	
Overall appearance (trash/litter)	OK	
Pump Station at Tannery Road: Condition:	OK	
Pump #1 Hours: 2513.1 Pump #2 Hours:	2203.8	
Leachate Collection System:		
Panel - note conditions and any alarms:	OK	
Autodialer - test	OK	Not performed

Totallizers (on Panel display at Tannery Rd)

RW-1 3001226 RW-3 2993437

RW-2 3886862 RW-4 442659

Panel/Wells on Landfill

Manholes along road - general condition, erosion, overflows	OK	
Pump Well No's 1, 2, 3 & 4 - Well head condition/integrity	OK	
Meter Pit - open lid, check heater, leaks, etc.	OK	
Panel note conditions and any alarms:	OK	RW-3 Coil

Totallizers (in meter pit)

RW-1 2996000 RW-3 1081200

RW-2 4986700 RW-4 469900

Hour Meters

RW-1 8359.4 RW-3 15593.2

RW-2 8732.8 RW-4 2885.2

Landfill Cover Inspection

Leachate seeps Any new seeps	NO	If YES, describe:
Western seep condition:	OK	
North seep condition:	ok	
Gas vents - general condition	OK	
- Unusual odors, list vents/describe.	None	
Flares ignited	OK	2 of 5 ON
Perimeter fence	OK	
Erosion/animal burrows	NO	If YES, describe:

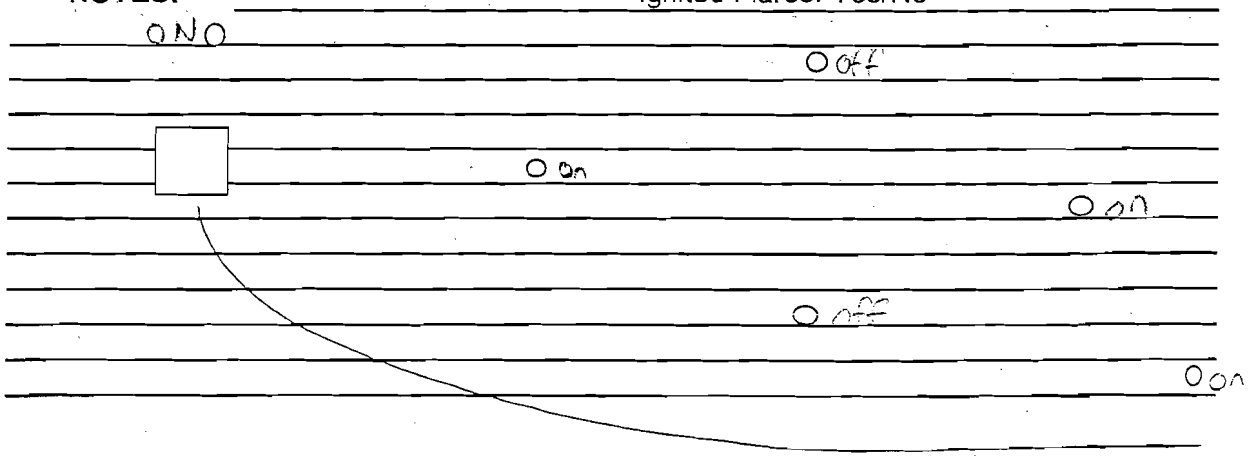
TANNERY ROAD LANDFILL, ROME, NY
INSPECTION CHECKLIST

Date & Time: 10/16/2001 Inspector: Brent Zimmer

Monitoring Well Water Level Data

WELL No	Measure Pt Elev.	Depth to Water (ft)	Groundwater Elevation (ft)	Well Condition
MW - 1S	449.59	6.90	442.69	Good
MW - 2S	459.44	8.06	451.38	Good
MW - 3S	456.4	4.11	452.29	Good (missing bolt)
MW - 4S	456.19	4.76	451.43	Good
MW - 5S	457.15	6.66	450.49	Good
MW - 7S	452.25	10.63	441.62	Good
MW - 9S	456.38	4.23	452.15	Good
MW - 10	486.30 ~~488.29~~	34.85	451.45	New Well (Total Depth 45.46)
MW - 11	502.40 ~~503.95~~	57.68	450.72	New Well (Total Depth 61.62)
MW - 12	483.11	32.44	450.67	Good
PZ - 1	454.37	8.78	445.59	Good

NOTES: ON O Ignited Flares: Yes/No



TANNERY ROAD LANDFILL, ROME, NY
INSPECTION CHECKLIST

Date & Time: 11/28/01

Inspector: SGF
Weather:

GENERAL INSPECTION - To Be Completed Monthly

Notes Problems

General Site Condition:

Gates - condition and locks for inner & outer gates: OK X
Access Road - surface/paving/snow OK X
Overall appearance (trash/litter) OK X

Pump Station at Tannery Road: Condition: OK
Pump #1 Hours: 25453 Pump #2 Hours: 22549

Leachate Collection System:

Panel - note conditions and any alarms: OK OK
Autodialer - test OK not performed
Totallizers (on Panel display at Tannery Rd)
RW-1 3066334 RW-3 3043733
RW-2 401767 RW-4 442659

Panel/Wells on Landfill

Manholes along road - general condition, erosion, overflows OK ok
Pump Well No's 1, 2, 3 & 4 - Well head condition/integrity OK ok
Meter Pit - open lid, check heater, leaks, etc. OK ok
Panel note conditions and any alarms: OK RW3 call
Totallizers (in meter pit)
RW-1 3060500 RW-3 1141200
RW-2 5117000 RW-4 469900

Hour Meters
RW-1 8537.4 RW-3 16253.1
RW-2 8925.3 RW-4 2885.2

Landfill Cover Inspection

Leachate seeps Any new seeps (NO) If YES, describe:
Western seep condition: ok
North seep condition: ok
Gas vents - general condition OK ok
- Unusual odors, list vents/describe. none
Flares ignited OK page 2
Perimeter fence OK ok except man gates
Erosion/animal burrows (NO) If YES, describe:

TANNERY ROAD LANDFILL, ROME, NY
INSPECTION CHECKLIST

Date & Time: 11/28/01 Inspector: [signature]

Monitoring Well Water Level Data

WELL No	Measure Pt Elev.	Depth to Water (ft)	Groundwater Elevation (ft)	Well Condition
MW - 1S	449.59	5.02	444.57	Good
MW - 2S	459.44	7.45	451.99	↓
MW - 3S	456.4	3.89	452.51	↓
MW - 4S	456.19	4.45	451.74	↓
MW - 5S	457.15	4.92	452.23	↓
MW - 7S	452.25	9.54	442.71	↓
MW - 9S	456.38	3.99	452.39	↓
MW - 10	~~488.29~~ 486.30	34.63	451.67	~~well not surveyed~~
MW - 11	~~503.95~~ 502.40	51.61	450.79	~~well not surveyed~~
MW - 12	483.11	32.34	450.77	Good
PZ - 1	454.37	7.45	446.92	Good

NOTES: yes

o no o yes

o no

o yes

o no

o yes

TANNERY ROAD LANDFILL, ROME, NY
INSPECTION CHECKLIST

Date & Time: 12/26/2001 9:37 Inspector: Brent Zimmer

Weather: Sunny / cool

GENERAL INSPECTION - To Be Completed Monthly

		Notes Problems
General Site Condition:		
Gates - condition and locks for inner & outer gates:	OK	
Access Road - surface/paving/snow	OK	
Access Road - surface/paving/snow	OK	
Overall appearance (trash/litter)	OK	
Pump Station at Tannery Road: Condition:	OK	
Pump #1 Hours: 2617.5 Pump #2 Hours:	2289.4	
Leachate Collection System:		
Panel - note conditions and any alarms:	OK	
Autodialer - test	OK	Not Performed

Totallizers (on Panel display at Tannery Rd)

RW-1 3109740 RW-3 307746.4

RW-2 410 3788 RW-4 442659

Panel/Wells on Landfill

Manholes along road - general condition, erosion, overflows	OK	
Pump Well No's 1, 2, 3 & 4 - Well head condition/integrity	OK	
Meter Pit - open lid, check heater, leaks, etc.	OK	Water in Bottom pit
Panel note conditions and any alarms:	OK	RW3 Call RW-4 Running

Totallizers (in meter pit)

RW-1 31045 RW-3 11753

RW-2 52038 RW-4 4699

Hour Meters

RW-1 8656.0 RW-3 1671.7

RW-2 9056.4 RW-4 2885.2

Landfill Cover Inspection

Leachate seeps Any new seeps NO If YES, describe:

Western seep condition:

North seep condition: Erosion in Rip Rap

Gas vents - general condition OK

- Unusual odors, list vents/describe. None

Flares ignited OK Page 2

Perimeter fence OK

Erosion/animal burrows NO If YES, describe:

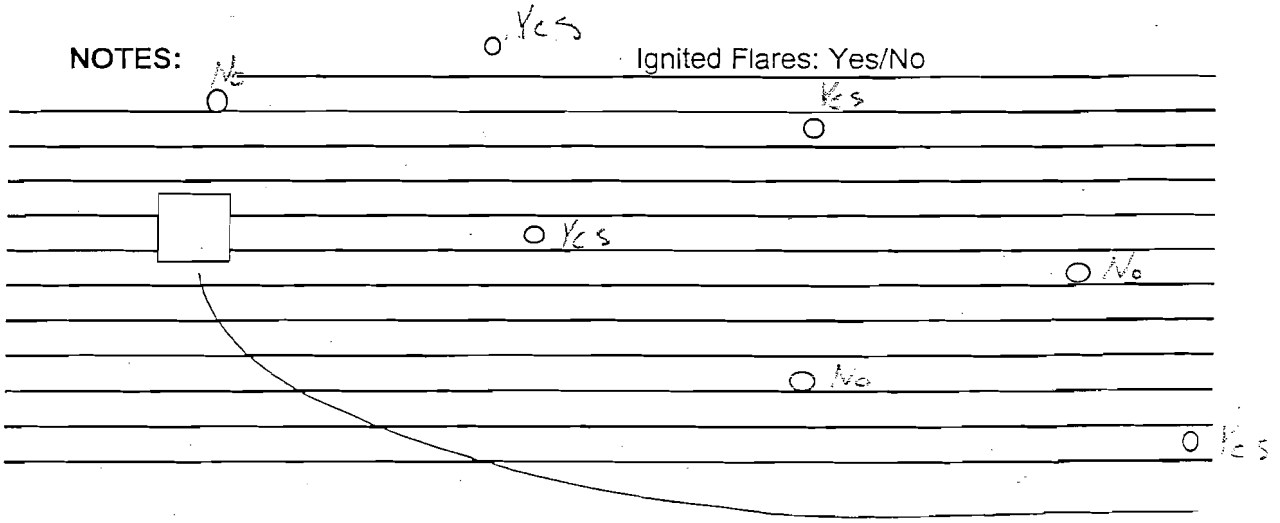
TANNERY ROAD LANDFILL, ROME, NY
INSPECTION CHECKLIST

Date & Time: 12/26/01 9:30 Inspector: Brent Zimmer

Monitoring Well Water Level Data

WELL No	Measure Pt Elev.	Depth to Water (ft)	Groundwater Elevation (ft)	Well Condition
MW - 1S	449.59	4.88	444.71	Good
MW - 2S	459.44	6.38	453.06	Good
MW - 3S	456.4	3.59	452.81	Good
MW - 4S	456.19	3.87	452.32	Good
MW - 5S	457.15	4.52	452.63	Good
MW - 7S	452.25	8.63	443.62	Good
MW - 9S	456.38	3.89	452.49	Good
MW - 10	486.30 ~~488.29~~	34.57	451.73	Needs Back filling
MW - 11	502.40 ~~503.95~~	51.50	450.90	↓
MW - 12	483.11	32.18	450.93	Good
PZ - 1	454.37	6.19	448.18	Good

NOTES: Ignited Flares: Yes/No



TANNERY ROAD LANDFILL, ROME, NY
INSPECTION CHECKLIST

Date & Time: 11/16/2022 9:29 Inspector: Brent Zimmer

Weather: Sunny 2" Snow

GENERAL INSPECTION - To Be Completed Monthly

		Notes Problems
General Site Condition:		
Gates - condition and locks for inner & outer gates:	OK	
Access Road - surface/paving/snow	OK	Snow
~~Access Road - surface/paving/snow~~	OK	
Overall appearance (trash/litter)	OK	
Pump Station at Tannery Road:	Condition: OK	
Pump #1 Hours: 26953	Pump #2 Hours: 23147	
Leachate Collection System:		
Panel - note conditions and any alarms:	OK	
Autodialer - test	OK	

Totallizers (on Panel display at Tannery Rd)

RW-1 3141681 RW-3 3107725

RW-2 4168990 RW-4 442659

Panel/Wells on Landfill

Manholes along road - general condition, erosion, overflows	OK	
Pump Well No's 1, 2, 3 & 4 - Well head condition/integrity	OK	
Meter Pit - open lid, check heater, leaks, etc.	OK	
Panel note conditions and any alarms:	OK	RW-3 Call

Totallizers (in meter pit)

RW-1 3136400 RW-3 1205500

RW-2 5268800 RW-4 469900

Hour Meters

RW-1 8742.5 RW-3 17214.0

RW-2 9154.1 RW-4 2885.2

Landfill Cover Inspection

Leachate seeps Any new seeps	NO	If YES, describe:
Western seep condition:	Good	
North seep condition:	Good	
Gas vents - general condition	OK	
- Unusual odors, list vents/describe.	None	
Flares ignited	OK	None
Perimeter fence	OK	
Erosion/animal burrows	NO	If YES, describe:

TANNERY ROAD LANDFILL, ROME, NY
INSPECTION CHECKLIST

Date & Time: 11/16/2022 9:12 Inspector: Brent Zimmer

Monitoring Well Water Level Data

WELL No	Measure Pt Elev.	Depth to Water (ft)	Groundwater Elevation (ft)	Well Condition
MW - 1S	449.59	5.23	444.36	Good
MW - 2S	459.44	7.82	451.62	Good
MW - 3S	456.4	3.66	452.74	Good
MW - 4S	456.19	4.17	452.02	Good
MW - 5S	457.15	4.81	452.34	Good
MW - 7S	452.25	9.33	442.92	Good
MW - 9S	456.38	3.93	452.45	Good
MW - 10	~~488.29~~ 486.30	35.02	451.28	Needs Backfilling
MW - 11	~~503.95~~ 502.40	51.83	450.57	↓
MW - 12	483.11	32.45	450.66	Good
PZ - 1	454.37	6.93	447.44	Good

NOTES: O No Ignited Flares: Yes/No

O No

O NO

O NO

O NO

O NO

O NO

APPENDIX E

QUARTERLY LEACHATE FLOW DATA SUMMARIES

Table 5
Operational Data Summary
Tannery Road Landfill
Rome, New York

Pump Station at Tannery Road														
Hour Meters														Total Hours Operated
	1/12/2001	2/14/2001	3/19/2001	4/30/2001	5/21/2001	6/25/2001	8/6/2001	8/30/2001	9/27/2001	10/16/2001	11/28/2001	12/26/2001	1/16/2002	11/15/2000-12/26/2001
Pump #1	20244	21058	21572	22287	22576	23083	23694	23979	24869	25131	25753	26175	26483	6239
Pump #2	19006	19174	19604	20203	20444	20865	21367	21599	21829	22038	22549	22894	23147	4141

Leachate Collection System														
Totalizers on Panel Display at Tannery Road Gate														Total Flow
	1/12/2001	2/14/2001	3/19/2001	4/30/2001	5/21/2001	6/25/2001	8/6/2001	8/30/2001	9/27/2001	10/16/2001	11/28/2001	12/26/2001	1/16/2002	11/15/2000-12/26/2001
RW-1	2545245	2601392	2657661	2730154	2766425	2824254	2893990	2931437	2972123	3001226	3066334	3109740	3141681	596436
RW-2	2989038	3100223	3213335	3357145	3427740	3541725	3679101	3751665	3830176	3886862	4017077	4103788	4168990	1179952
RW-3	2810257	2831587	2831587	2831587	2831587	2873924	2913584	2945561	2973724	2993437	3043433	3077464	3107725	297468
RW-4	442657	442657	442657	442657	442657	442657	442659	442659	442659	442659	442659	442659	442659	2

Totalizers in Meter Pit														Total Flow
	1/12/2001	2/14/2001	3/19/2001	4/30/2001	5/21/2001	6/25/2001	8/6/2001	8/30/2001	9/27/2001	10/16/2001	11/28/2001	12/26/2001	1/16/2002	11/15/2000-12/26/2001
RW-1	2540000	2596200	2652400	2724900	2761200	2819100	2888700	2926200	2968000	2996000	3060500	3104500	3136400	596400
RW-2	4088900	4200100	4313200	4457000	4527600	4641800	4779000	4851500	4930200	4986700	5117000	5203800	5268800	1179900
RW-3	908000	929300	929300	929300	929300	968700	1017300	1043300	1071500	1091200	1141200	1175300	1205500	297500
RW-4	469900	469900	469900	469900	469900	469900	469900	469900	469900	469900	469900	469900	469900	0

Hour Meters														Total Hours Operated
	1/12/2001	2/14/2001	3/19/2001	4/30/2001	5/21/2001	6/25/2001	8/6/2001	8/30/2001	9/27/2001	10/16/2001	11/28/2001	12/26/2001	1/16/2002	11/15/2000-12/26/2001
RW-1	7120.1	7273.9	7426.2	7621.4	7720.7	7878.7	8067.9	8169.3	8280.3	8359.4	8537.4	8656	8742.5	1622.4
RW-2	7348.8	7521.6	7697.3	7919.9	8029.9	8207.5	8418.1	8528.6	8648	8732.8	8925.3	9056.4	9154.1	1805.3
RW-3	12342.9	12730.1	13522.2	14829.8	15035.8	15229.7	15375.4	15452.5	15535.8	15593.2	16253.1	16711.7	17214	4871.1
RW-4	2885.2	2885.2	2885.2	2885.2	2885.2	2885.2	2885.2	2885.2	2885.2	2885.2	2885.2	2885.2	2885.2	0