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December 7, 2004

Mr. Frank D. Tallarino Jr., P.E.
Commissioner of Public Works
City of Rome
City Hall, Suite 3C
198 N. Washington Street
Rome, New York 13440

*Review -
we will be
any thing standing
in the way
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RE: Tannery Road Landfill O&M
Quarterly Monitoring - Third Quarter 2004
Monthly Inspections - August through November 2004

Dear Mr. Tallarino:

Delaware Engineering, P.C. is pleased to provide you with this letter report summarizing the results of the September 2004 ground water sampling at the Tannery Road Landfill for the City of Rome.

INTRODUCTION

On September 28, 2004, Delaware personnel measured the depth to water, obtained field parameter measurements and collected ground water samples from one upgradient monitoring well (MW-9S) and six downgradient monitoring wells (MW-1S, MW-2D, MW-3S, MW-4S, MW-5S and MW-7D). Each well was purged of a minimum of three well volumes prior to sample collection. In addition, a leachate sample was collected from leachate monitoring wells MW-10 and MW-12. The depth to water was measured in leachate monitoring well MW-11.

Samples were analyzed for the NYSDEC Part 360 Baseline parameters. The ground water analytical data are summarized in Table 1. Concentrations that exceed an applicable ground water standard or guidance value are presented in bold.

Monthly Operations and Maintenance (O&M) inspections were conducted in August, September, October and November 2004. The Inspection Checklists are attached, and data have been summarized in Tables 2 (Water Levels) and 3 (Pumping Hours and Gallons).

The October 2004 monthly inspection revealed the following:

1. Repairs were made on one of the diversion berm erosion areas located west of the north downshute. Repairs were not made to the second erosion area in the diversion berm located approximately 150 feet west of the north downshute.
2. Repairs were made on the south downshute located east of the man gate on the south side of the landfill (outside the landfill fence). The repairs consisted of the placement of medium riprap in the eroded area. The riprap appears to be adequately controlling runoff and preventing erosion.
3. An attempt was made to repair the erosion along the landfill fence at the west end of the wetland located on the south side of the landfill access road. However, the soil that was placed in the erosion channels has begun to erode. It is recommended that in the spring 2005 the soil be replaced, an erosion control mat (North American Green P550 or Curlex HVHD or equivalent) be installed in the area and the area seeded.
4. A wood chuck burrow was observed approximately 300 feet west of the pump house between the pump house and leachate monitoring well MW-10.

GROUND WATER METAL RESULTS

Review of the metals data indicates that each of the monitoring wells, including upgradient well MW-9S and leachate monitoring wells MW-10 and MW-12 exhibited iron concentrations above the New York State Department Of Environmental Conservation (NYSDEC) ground water standard. Manganese concentrations in all wells except MW-1S, MW-4S and leachate well LMW-12 exceeded the New York State Department of Environmental Conservation (NYSDEC) ground water standard. Downgradient ground water manganese concentrations from all monitoring wells (except manganese in monitoring well MW-2D) and the MW-1S, MW-4S and MW-5S iron concentrations, were lower than the upgradient MW-9S concentrations, indicating that the downgradient ground water manganese and iron concentrations are most likely to some extent naturally derived and related to the sediment load in the samples. It should be noted that the ground water standard for iron and manganese is based on aesthetic reasons (*e.g.*, taste, staining of laundry and porcelain, *etc.*). The reported concentrations are not considered a threat to public health or the environment.

Samples collected from upgradient well MW-9S and down gradient monitoring well MW-7D as well as leachate wells LMW-10 and LMW-12 exhibited sodium concentrations above the NYSDEC ground water standard of 20 mg/L. The ground water standard for sodium is designed to protect those individuals who are on low sodium diets and the reported concentrations are not considered a threat to public health or the environment.

Potassium concentrations in the MW-2D, MW-3S, MW-4S and MW-7D ground water samples were higher than the upgradient MW-9S concentration. Leachate samples from leachate wells MW-10 and MW-12 exhibit high potassium concentrations. Data indicate that the higher downgradient ground water potassium concentrations are most likely related to a landfill affect on ground water. However, there is no ground water standard for potassium and reported downgradient ground water concentrations do not represent a significant environmental concern.

The concentrations of magnesium, boron and antimony in the LMW-10 and LMW-12 leachate well samples and the MW-12 leachate well arsenic concentration were above the respective ground water standard/guidance values.

The metals data indicate that the iron and manganese concentrations detected above the respective ground water standards in some of the downgradient landfill monitoring wells are most likely related to a combination of natural sources and a landfill derived impact on ground water. The potassium concentrations in the ground water samples from monitoring wells MW-2D and MW-7D are indications of a landfill related impact on ground water quality. The reported iron, manganese and potassium concentrations do not represent an environmental or public health threat.

LEACHATE INDICATOR DATA

Ground water from down gradient monitoring wells MW-2D, MW-3S, MW-4S and MW-7D exhibited ammonia concentrations that were above the ground water standard as were the concentrations in the MW-10 and MW-12 leachate wells. The ammonia detected in the ground water monitoring well samples is most likely landfill related.

The concentration of total phenols in the ground water samples from monitoring wells MW-4S, MW-5S and MW-7D were slightly higher than the ground water standard. Although the total phenols concentration measured in the MW-10 and MW-12 landfill leachate wells were also above the ground water standard, the total phenols reported in wells MW-4S, MW-5S and MW-7D is most likely to some extent naturally derived. Phenolic compounds are natural constituents of organic matter and are often present at concentrations above the ground water/ surface water standards in ground water and surface waters near wetlands, which typically contain significant volumes of decaying organic material.

The MW-10 and MW-12 leachate well samples exhibited concentrations of bromide, chloride and TDS that were above the respective ground water standards.

Data indicate that the MW-2D, MW-3S, MW-4S and MW-7D ground water ammonia concentrations are most likely landfill derived. The total phenols concentrations detected above the respective ground water standards in some of the downgradient landfill monitoring wells are most likely related to a combination of natural sources and a landfill

derived impact on ground water. Ground water at the landfill perimeter continues to represent a potential source of ammonia to the adjacent wetlands.

VOLATILE ORGANIC DATA

The samples collected from leachate monitoring wells MW-10 and MW-12 exhibited benzene at concentrations above the ground water standard, as were the concentrations of 1,4-dichlorobenzene, chloroethane and xylene in the MW-10 sample. Chlorobenzene was reported in both the MW-10 and MW-12 samples at concentrations slightly below the ground water standard. Benzene was detected in the ground water sample from monitoring well MW-7D at a concentration above the ground water standard and chlorobenzene was reported at a concentration slightly below the ground water standard. Both the benzene and chlorobenzene detected in the MW-7D ground water sample most likely reflect a landfill related impact on ground water.

FIELD PARAMETER DATA

Ground water from monitoring wells MW-1S, MW-4S, MW-5S and MW-7D and the samples from leachate wells MW-10 and MW-12 exhibited pH values below the NYSDEC ground water standard lower limit of 6.5. The low pH value is most likely representative of the natural conditions associated with the pitch pine wetland/bogs located adjacent to the landfill. These wetlands/bogs typically exhibit low pH values. MW-10 and MW-12 leachate sample pH values have historically generally been within the ground water standard range, at or near the lower limit.

Ground water Turbidity values for all the monitoring wells were above the ground water standard. Turbidity values above the NTU standards are most likely a result of the ground water purging procedure prior to sample collection.

DATA VALIDATION/DATA USABILITY

The usability of the September 2004 analytical data were evaluated by reviewing the available laboratory batch QA/QC data and comparison to the available historical data. In addition, the analytical results were validated by the laboratory's QA/QC department prior to their release of the data. The MW-3S and MW-7D total kjeldahl nitrogen (TKN) and ammonia results are considered estimated. TKN is a measurement of both ammonia and organic nitrogen and by definition an ammonia only analysis cannot exceed a TKN concentration. The laboratory reported ammonia concentration in the MW-3S and the MW-7D samples were higher than the reported TKN values. The error is most likely a function of the high ammonia and TKN concentrations in the samples and was caused by analytical variability and variability in sample dilution that was necessary to bring the concentrations within the linear range of the analysis. Although the data are estimated, the results are usable and all the September 2004 data are considered of sufficient quality to make informed decisions with respect to ground water and leachate quality.

O&M – MONTHLY INSPECTIONS

Operations and Maintenance (O&M) inspections were conducted in August, September, October and November 2004. The annual landfill hydrogen sulfide survey of the landfill gas vents was conducted in August 2004. The Inspection Checklists are attached, and the data have been summarized in Tables 2 and 3. Table 2 summarizes the water level data for the site and Table 3 provides the operational data summary. A ground water contour map for September 2004 is provided in Figure 1.

The ground water elevation data for 2004 indicates that there has been a consistent inward gradient from monitoring wells MW-2S, MW-3S, MW-4S, MW-5S and MW-9S to the landfill.

Leachate well pumping data indicates that between January 29, 2004 and November 30, 2004, approximately 2,444,400 gallons of leachate have been pumped from the landfill. Leachate recovery wells RW-2 (821,900 gallons) and RW-4 (916,400 gallons) have produced the most leachate.

SUMMARY

The October 2004 monthly inspection revealed the following:

1. Repairs were made on one of the diversion berm erosion areas located west of the north downshute. Repairs were not made to the second erosion area in the diversion berm located approximately 150 feet west of the north downshute.
2. Repairs were made on the south downshute located east of the man gate on the south side of the landfill (outside the landfill fence). The repairs consisted of the placement of medium riprap in the eroded area. The riprap appears to be adequately controlling runoff and preventing erosion.
3. An attempt was made to repair the erosion along the landfill fence at the west end of the wetland located on the south side of the landfill access road. However, the soil that was placed in the erosion channels has begun to erode. It is recommended that in the spring 2005 that the soil be replaced, an erosion control mat (North American Green P550 or Curlex HVHD or equivalent) be installed in the area and the area seeded.
4. A wood chuck burrow was observed approximately 300 feet west of the pump house between the pump house and leachate monitoring well MW-10.

Data indicate that the MW-2D, MW-3S, MW-4S and MW-7D ground water ammonia concentrations are most likely landfill derived. Ground water at the landfill perimeter continues to represent a potential source of ammonia to the adjacent wetlands. The iron, manganese and total phenols concentrations detected above the respective ground water

standards in some of the downgradient landfill monitoring wells are most likely related to a combination of natural sources and a landfill derived impact on ground water. The potassium concentrations in the ground water samples from monitoring wells MW-2D and MW-7D are indications of a landfill related impact on ground water quality. The reported iron, manganese, total phenols and potassium concentrations do not represent an environmental or public health threat. Both the benzene and chlorobenzene detected in the MW-7D ground water sample most likely reflect a landfill related impact on ground water.

If you have any questions, please do not hesitate to call Gary Kerzic or me at 518-452-1290.

Sincerely,



Edward G. Fahrenkopf
Senior Environmental Scientist

cc: Susan Lasdin, NYSDEC

Attachment(s)	Data Summary Tables
	Laboratory Reporting Sheets
	O&M Inspection Checklists: August 2004, September 2004, October 2004 and November 2004
	Historical Data Tables
	Ground Water Contour Map: September 2004

TABLES

Table 1
September 2004 Ground Water Analytical Data
Tannery Road Landfill
Rome, New York

Sample Location	MW-1S	MW-2D	MW-3S	MW-4S	MW-5S	MW-7D	MW-9S	MW-10	MW-12	NYSDEC Ground Water Standard/GV
Leachate Indicators (mg/L)										
Ammonia-Nitrogen	0.14	2.5	56	3.6	<0.03	25	0.48	160	220	2
Biochemical Oxygen Demand (BOD5)	<4	7.5	16	<4	<4	7.2	4.7	31	35	NS
Bromide	<0.1	0.12	<0.1	<0.1	<0.1	0.5	<0.1	2.5	4.8	2 (GV)
Chemical Oxygen Demand	7.9	32	84	120	15	130	79	290	420	NS
Chloride	2.5	3.8	3.3	7.4	2.6	27	3	280	270	250
Chromium Hexavalent	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.05
Color (PCU)	180	650	750	550	450	675	700	950	1,400	15
Nitrate-Nitrogen	0.14	0.17	0.15	<0.1	0.2	<0.1	<0.1	0.2	0.2	10
Sulfate	7.1	33	36	20	9.6	23	1.9	2.1	2.3	250
Total Alkalinity	8	74	340	60	38	290	210	1,900	1,700	NS
Total Cyanide	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.2
Total Dissolved Solids	52	160	350	190	66	420	370	1,700	1,700	500
Total Hardness	5.4	90	100	37	52	200	280	480	450	NS
Total Kjeldahl Nitrogen	0.28	5	50	6.4	0.2	18	0.78	260	230	NS
Total Organic Carbon	3	8	26	40	3.6	34	24	75	140	NS
Total Phenols	<0.002	<0.002	<0.002	0.0079	0.0039	0.0021	<0.002	0.02	0.019	0.001
Total Metals (mg/L)										
Aluminum	2.1	0.37	0.44	1.4	0.44	1.1	1.4	0.28	0.45	NS
Antimony	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.012	0.014	0.003
Arsenic	<0.01	0.011	0.012	<0.01	0.013	0.011	<0.01	0.022	0.026	0.025
Barium	<0.2	0.23	<0.2	<0.2	<0.2	0.23	<0.2	0.25	0.22	1
Beryllium	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.003(GV)
Boron	<0.01	0.089	0.37	0.28	0.014	0.8	0.027	1.7	2.8	1
Cadmium	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.005
Calcium	2.2	29	29	9.3	16	49	84	110	76	NS
Chromium	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.05
Cobalt	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	NS
Copper	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.2
Iron	1.1	11	9.3	4.3	4.7	29	6.1	49	42	0.3
Lead	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.025
Magnesium	<1	3.9	6.8	3.3	2.9	18	16	53	63	35 (GV)
Manganese	0.061	1.1	0.38	0.25	0.34	0.64	0.96	1.6	0.28	0.3
Mercury	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	0.0007
Nickel	<0.01	<0.01	0.011	<0.01	<0.01	0.046	0.014	0.024	0.024	0.1
Potassium	<1	17	110	17	2.4	40	2.2	320	400	NS

Table 1
September 2004 Ground Water Analytical Data
Tannery Road Landfill
Rome, New York

	Sample Location	MW-1S	MW-2D	MW-3S	MW-4S	MW-5S	MW-7D	MW-9S	MW-10	MW-12	NYSDEC Ground Water Standard/GV
Selenium		<0.01	<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	<0.01	0.05
Sodium		1.2	3	6.1	8.2	<1	31	33	230	320	20
Thallium		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.0005(GV)
Vanadium		<0.01	0.012	0.018	<0.01	<0.01	0.016	<0.01	0.013	0.026	NS
Zinc		0.022	0.017	0.02	0.019	0.017	0.041	0.022	0.099	0.026	2(GV)
Field Parameters											
Conductivity (umhos/cm)		44	253	841	224	118	817	394	3,480	4,620	NS
pH (units)		5.3	6.98	6.57	5.75	6.44	6	6.95	6.22	6.4	6.5-8.5
Temperature (C)		15	13.7	14	14.8	14.1	12.6	13.2	16.8	15.5	NS
Turbidity (NTU)		29	125	86	46	108	165	331	73	5	5
Volatiles (ug/L)											
1,1,1,2-Tetrachloroethane		<1	<1	<1	<1	<1	<1	<1	<1	<1	5
1,1,1-Trichloroethane		<1	<1	<1	<1	<1	<1	<1	<1	<1	5
1,1,2,2-Tetrachloroethane		<1	<1	<1	<1	<1	<1	<1	<1	<1	5
1,1,2-Trichloroethane		<1	<1	<1	<1	<1	<1	<1	<1	<1	1
1,1-Dichloroethane		<1	<1	<1	<1	<1	<1	<1	<1	<1	5
1,1-Dichloroethene		<1	<1	<1	<1	<1	<1	<1	<1	<1	5
1,2,3-Trichloropropane		<1	<1	<1	<1	<1	<1	<1	<1	<1	0.04
1,2-Dibromo-3-chloropropane		<1	<1	<1	<1	<1	<1	<1	<1	<1	0.04
1,2-Dibromoethane (EDB)		<1	<1	<1	<1	<1	<1	<1	<1	<1	5
1,2-Dichlorobenzene		<1	<1	<1	<1	<1	<1	<1	<1	<1	3
1,2-Dichloroethane		<1	<1	<1	<1	<1	<1	<1	<1	<1	0.6
1,2-Dichloropropane		<1	<1	<1	<1	<1	<1	<1	<1	<1	1
1,4-Dichlorobenzene		<1	<1	<1	<1	<1	<1	<1	3.7	<1	3
2-Butanone (MEK)		<10	<10	<10	<10	<10	<10	<10	<10	<10	50(GV)
2-Hexanone		<10	<10	<10	<10	<10	<10	<10	<10	<10	50(GV)
4-Methyl-2-pentanone		<10	<10	<10	<10	<10	<10	<10	<10	<10	50 (GV)
Acetone		<10	<10	<10	<10	<10	<10	<10	<10	<10	50(GV)
Acrylonitrile		<5	<5	<5	<5	<5	<5	<5	<5	<5	5
Benzene		<1	<1	<1	<1	<1	4.3	<1	5	16	1
Bromochloromethane		<1	<1	<1	<1	<1	<1	<1	<1	<1	5
Bromodichloromethane		<1	<1	<1	<1	<1	<1	<1	<1	<1	50(GV)
Bromoform		<1	<1	<1	<1	<1	<1	<1	<1	<1	50(GV)
Bromomethane		<1	<1	<1	<1	<1	<1	<1	<1	<1	5

Table 1
September 2004 Ground Water Analytical Data
Tannery Road Landfill
Rome, New York

Sample Location	MW-1S	MW-2D	MW-3S	MW-4S	MW-5S	MW-7D	MW-9S	MW-10	MW-12	NYSDEC Ground Water Standard/GV 60 (GV)
Carbon disulfide	<1	<1	<1	<1	<1	<1	<1	<1	<1	
Carbon tetrachloride	<1	<1	<1	<1	<1	<1	<1	<1	<1	5
Chlorobenzene	<1	<1	<1	<1	<1	4.4	<1	4.1	1.6	5
Chloroethane	<1	<1	<1	<1	<1	<1	<1	22	<1	5
Chloroform	<1	<1	<1	<1	<1	<1	<1	<1	<1	7
Chloromethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	5
cis-1,2-Dichloroethene	<1	<1	<1	<1	<1	<1	<1	<1	<1	5
cis-1,3-Dichloropropene	<1	<1	<1	<1	<1	<1	<1	<1	<1	5
Dibromochloromethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	5
Dibromomethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	5
Ethyl benzene	<1	<1	<1	<1	<1	<1	<1	<1	<1	5
Iodomethane	<10	<10	<10	<10	<10	<10	<10	<10	<10	5
Methylene chloride	<10	<10	<10	<10	<10	<10	<10	<10	<10	5
Styrene	<1	<1	<1	<1	<1	<1	<1	<1	<1	50
Tetrachloroethene	<1	<1	<1	<1	<1	<1	<1	<1	<1	5
Toluene	<1	<1	<1	<1	<1	<1	<1	<1	<1	5
trans-1,2-Dichloroethene	<1	<1	<1	<1	<1	<1	<1	<1	<1	5
trans-1,3-Dichloropropene	<1	<1	<1	<1	<1	<1	<1	<1	<1	5
trans-1,4-Dichloro-2-butene	<10	<10	<10	<10	<10	<10	<10	<10	<10	5
Trichloroethene	<1	<1	<1	<1	<1	<1	<1	<1	<1	5
Trichlorofluoromethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	5
Vinyl acetate	<5	<5	<5	<5	<5	<5	<5	<5	<5	NS
Vinyl Chloride	<1	<1	<1	<1	<1	<1	<1	<1	<1	2
Xylenes (Total)	<1	<1	<1	<1	<1	<1	<1	63	2	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.

**Water Level Elevation Data, Comparisons to MW-10 and MW-12
Tannery Road Landfill
Rome, New York**

WELL	MEASURING POINT	DEPTH TO WATER (FT.)										
	ELEVATION (FT.)	01/29/2004	2/25/04	3/23/04	4/16/04	5/28/04	6/22/04	7/20/04	8/24/04	9/28/04	10/21/04	11/30/04
MW-1S	449.59	5.77	6.86	4.75	4.66	4.25	5.91	6.17	5.8	6.01	6.04	4.89
MW-2S	459.44	8.21	8.78	6.51	6.59	6.1	8.81	9.04	7.57	8.07	8.71	6.49
MW-3S	456.4	3.97	3.96	NA	3.58	3.44	4.03	4.27	3.75	4.1	3.73	3.56
MW-4S	456.19	4.18	4.18	3.76	3.86	3.64	4.18	4.49	4.14	4.04	4.07	3.83
MW-5S	457.15	5.1	5.24	4.34	4.43	4.18	5.29	5.69	4.81	5.05	5.2	4.29
MW-7S	452.25	8.31	8.93	7.91	7.52	7.36	8.26	9.1	8.96	8.71	9.48	8.3
MW-9S	456.38	3.98	3.91	3.77	3.75	3.66	4.11	4.19	3.93	4.11	3.92	3.7
MW-10	486.3	NA	35.25	35.11	35.25	34.77	35.07	35.1	35.33	34.95	35.34	35.29
MW-11	502.4	51.97	52.21	52.09	52.13	51.77	51.98	52.45	52.31	52.03	52.35	52.36
MW-12	483.11	32.46	32.74	32.55	32.47	32.24	32.49	32.55	32.98	32.67	33.02	33.05
PZ-1	454.37	6.95	7.51	5.77	5.57	5.33	7.35	8.11	7.37	7.4	7.78	6.36
MW-7D	451.79			8.05	7.45	7.26	8.51	9.34	9.26	9.09	9.64	8.99

WELL	WATER LEVEL ELEVATION (FT.)											
	01/29/2004	2/25/04	3/23/04	4/16/04	5/28/04	6/22/04	7/20/04	8/24/04	9/28/04	10/21/04	11/30/04	
MW-1S	443.82	442.73	444.84	444.93	445.34	443.68	443.42	443.79	443.58	443.55	444.7	
MW-2S	451.23	450.68	452.93	452.85	453.34	450.63	450.4	451.87	451.37	450.73	452.95	
MW-3S	452.43	452.44	NA	452.82	452.96	452.37	452.13	452.65	452.3	452.67	452.84	
MW-4S	452.01	452.01	452.43	452.33	452.55	452.01	451.7	452.05	452.15	452.12	452.36	
MW-5S	452.05	451.91	452.81	452.72	452.97	451.86	451.46	452.34	452.1	451.95	452.86	
MW-7S	443.94	443.32	444.34	444.73	444.89	443.99	443.15	443.29	443.54	442.77	443.95	
MW-9S	452.4	452.47	452.61	452.63	452.72	452.27	452.19	452.45	452.27	452.46	452.68	
MW-10	NR	451.05	451.19	451.05	451.53	451.23	451.2	450.97	451.35	450.96	451.01	
MW-11	450.43	450.19	450.31	450.27	450.63	450.42	449.95	450.09	450.37	450.05	450.04	
MW-12	450.65	450.37	450.56	450.64	450.87	450.62	450.56	450.13	450.44	450.09	450.06	
PZ-1	447.42	446.86	448.6	448.8	449.04	447.02	446.26	447	446.97	446.59	448.01	
MW-7D			443.74	444.34	444.53	443.28	442.45	442.53	442.7	442.15	442.8	

WELL	WATER LEVEL ELEVATION DIFFERENCE (FT.) RELATIVE TO MW-12 ²											
	01/29/2004	2/25/04	3/23/04	4/16/04	5/28/04	6/22/04	7/20/04	8/24/04	9/28/04	10/21/04	11/30/04	
MW-1S	6.83	7.64	5.72	5.71	5.53	6.94	7.14	6.34	6.86	6.54	5.36	
MW-2S	-0.58	-0.29	-2.37	-2.21	-2.47	-0.01	0.16	-1.74	-0.93	-0.64	-2.89	
MW-3S	-1.78	-2.07	NA	-2.18	-2.09	-1.75	-1.57	-2.52	-1.86	-2.58	-2.78	
MW-4S	-1.36	-1.64	-1.87	-1.69	-1.68	-1.39	-1.14	-1.92	-1.71	-2.03	-2.3	
MW-5S	-1.4	-1.54	-2.25	-2.08	-2.1	-1.24	-0.9	-2.21	-1.66	-1.86	-2.8	
MW-7S	6.71	7.05	6.22	5.91	5.98	6.63	7.41	6.84	6.9	7.32	6.11	
MW-9S	-1.75	-2.1	-2.05	-1.99	-1.85	-1.65	-1.63	-2.32	-1.83	-2.37	-2.62	
MW-10	NA	NA	-0.63	-0.41	-0.66	-0.61	-0.64	-0.84	-0.91	-0.87	-0.95	
MW-11	0.22	0.18	0.25	0.37	0.24	0.2	0.61	0.04	0.07	0.04	0.02	
MW-12	0	0	0	0	0	0	0	0	0	0	0	
PZ-1	3.23	3.51	1.96	1.84	1.83	3.6	4.3	3.13	3.47	3.5	2.05	
MW-7D			6.82	6.3	6.34	7.34	8.11	7.6	7.74	7.94	7.26	

WELL	WATER LEVEL ELEVATION DIFFERENCE (FT.) RELATIVE TO MW-10 ²											
	01/29/2004	2/25/04	3/23/04	4/16/04	5/28/04	6/22/04	7/20/04	8/24/04	9/28/04	10/21/04	11/30/04	
MW-1S	NA	8.32	6.35	6.12	6.19	7.55	7.78	7.18	7.77	7.41	6.31	
MW-2S	NA	0.39	-1.74	-1.80	-1.81	0.60	0.80	-0.9	-0.02	0.23	-1.94	
MW-3S	NA	-1.39	NA	-1.77	-1.43	-1.14	-0.93	-1.68	-0.95	-1.71	-1.83	
MW-4S	NA	-0.96	-1.24	-1.28	-1.02	-0.78	-0.50	-1.08	-0.8	-1.16	-1.35	
MW-5S	NA	-0.86	-1.62	-1.67	-1.44	-0.63	-0.26	-1.37	-0.75	-0.99	-1.85	
MW-7S	NA	7.73	6.85	6.32	6.64	7.24	8.05	7.68	7.81	8.19	7.06	
MW-9S	NA	-1.42	-1.42	-1.58	-1.19	-1.04	-0.99	-1.48	-0.92	-1.5	-1.67	
PZ-1	NA	4.19	2.59	2.25	2.49	4.21	4.94	0	0	0	0	
MW-7D			7.45	6.71	7	7.95	8.75	0.88	0.98	0.91	0.97	

Notes:

1) Water levels were collected from one upgradient monitoring well (MW-9S), six downgradient wells (MW-1S, MW-2S, MW-3S, MW-4S, MW-5S and MW-7S), one downgradient piezometer (PZ-1) and three leachate monitoring wells (MW-10), (MW-11), (MW-12).

2) A negative number indicates an inward gradient.

3) NA indicates monitoring well was not accessible due to frozen conditions

Table 3
Operational Data Summary
Tannery Road Landfill
Rome, New York

Pump Station at Tannery Road
Hour Meters

	01/29/2004	2/25/04	3/23/04	4/16/04	5/28/04	6/22/04	7/20/04	8/24/04	9/28/04	10/21/04	11/30/04	Total Hours Operated 1/29/2004 - 7/20/04
Pump #1	41,356	41,949	42,673	43,319	44,435	45,161	45,373	46,697	47,773	48,147	48,868	7,512
Pump #2	35,225	35,687	36,253	36,765	37,649	38,222	39,022	39,055	39,315	39,657	40,300	5,075

Totalizers in Meter Pit

	01/29/2004	2/25/04	3/23/04	4/16/04	5/28/04	6/22/04	7/20/04	8/24/04	9/28/04	10/21/04	11/30/04	Total Flow (Gallons) 1/29/2004 - 7/20/04
RW-1	4,139,800	4,173,000	4,205,200	4,229,400	4,282,200	4,317,700	4,353,000	4,396,800	4,439,900	4,470,200	4,533,700	393,900
RW-2	7,335,200	7,407,000	7,478,600	7,543,300	7,657,100	7,726,600	7,797,000	7,885,500	7,973,900	8,036,300	8,157,100	821,900
RW-3	2,252,800	2,256,700	2,300,200	2,323,700	2,359,000	2,384,700	2,417,000	2,463,800	2,495,100	2,514,300	2,565,000	312,200
RW-4	2,266,600	2,371,100	2,478,400	2,571,200	2,731,800	2,771,200	2,830,200	2,937,700	3,019,900	3,099,000	3,183,000	916,400
Total		213,400	254,600	205,200	362,500	170,100	197,000	286,600	245,000	191,000	319,000	2,444,400

Hour Meters

	01/29/2004	2/25/04	3/23/04	4/16/04	5/28/04	6/22/04	7/20/04	8/24/04	9/28/04	10/21/04	11/30/04	Total Hours Operated 1/29/2004 - 7/20/04
RW-1	114,176	115,219	116,198	121,279	129,678	131,257	132,779	134,611	136,181	137,440	143,498	29,322
RW-2	122,335	123,499	124,677	125,740	127,603	128,755	129,943	131,506	133,158	134,399	137,475	15,140
RW-3	293,761	300,255	306,718	312,459	322,527	328,760	335,237	343,612	352,008	357,502	367,108	73,347
RW-4	143,731	150,225	156,688	162,429	172,497	178,728	185,204	193,583	201,978	207,474	217,080	73,349

LABORATORY REPORTING SHEETS

-- LABORATORY ANALYSIS REPORT --

Delaware Engineering Albany, NY

Sample ID: MW-7D LSL Sample ID: 0417149-001

Location:

Sampled: 09/28/04 10:30 Sampled By: EF

Sample Matrix: NPW

Analytical Method	Result	Units	Prep Date	Analysis Date & Time	Analyst Initials
Analyte					
(1) EPA 110.2, Color					
Apparent Color	675	Units		9/29/04	JN
(1) EPA 200.7 Total Hardness as CaCO3					
Hardness, Total	200	mg/l		10/5/04	TER
(1) EPA 245.1 Total Mercury					
Mercury	<0.0002	mg/l		10/8/04	TER
The result of the calibration check sample associated with this analysis was less than the established control limit. Therefore, the analytical result reported above may be biased low.					
(1) EPA 335.2 Total Cyanide					
Cyanide, Total	<0.01	mg/l	10/4/04	10/6/04	JN
(1) EPA 350.1 Ammonia					
Ammonia as N	25	mg/l		10/11/04	DRB
(1) EPA 351.2 TKN as N					
Total Kjeldahl Nitrogen	18	mg/l	10/8/04	10/11/04	DRB
(1) EPA 405.1 BOD-5					
Biochemical Oxygen Demand, 5 Day	7.2	mg/l		9/29/04 15:00	MM
(1) EPA 420.1 Recoverable Phenolics ML					
Phenolics, Total Recoverable	0.0021	mg/l	10/11/04	10/12/04	JN
(1) EPA 6010 Total Metals					
Boron	0.80	mg/l		10/5/04	TER
Potassium	40	mg/l		10/5/04	TER
The result of the calibration check sample associated with this analysis was greater than the established control limit. Therefore, the analytical result reported above may be biased high.					
Iron	29	mg/l		10/5/04	TER
Manganese	0.64	mg/l		10/5/04	TER
Magnesium	18	mg/l		10/5/04	TER
Lead	<0.01	mg/l		10/5/04	TER
Cadmium	<0.01	mg/l		10/5/04	TER
Aluminum	1.1	mg/l		10/5/04	TER
Calcium	49	mg/l		10/5/04	TER
Antimony	<0.01	mg/l		10/5/04	TER
Arsenic	0.011	mg/l		10/5/04	TER
Beryllium	<0.01	mg/l		10/5/04	TER
Barium	0.23	mg/l		10/5/04	TER
Sodium	31	mg/l		10/5/04	TER
Chromium	<0.01	mg/l		10/5/04	TER
Copper	<0.01	mg/l		10/5/04	TER
Nickel	0.046	mg/l		10/5/04	TER
Selenium	<0.01	mg/l		10/5/04	TER
Silver	<0.01	mg/l		10/5/04	TER
Thallium	<0.01	mg/l		10/5/04	TER
Zinc	0.041	mg/l		10/5/04	TER
Cobalt	<0.01	mg/l		10/5/04	TER
Vanadium	0.016	mg/l		10/5/04	TER

- - LABORATORY ANALYSIS REPORT - -

Delaware Engineering Albany, NY

Sample ID: MW-7D LSL Sample ID: 0417149-001

Location:

Sampled: 09/28/04 10:30 Sampled By: EF

Sample Matrix: NPW

Analytical Method	Result	Units	Prep Date	Analysis Date & Time	Analyst Initials
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(1) EPA 8260B TCL Volatiles (Modified List)

Acetone	<10	ug/l		10/8/04	LEF
Acrylonitrile	<5	ug/l		10/8/04	LEF
Benzene	4.3	ug/l		10/8/04	LEF
Bromochloromethane	<1	ug/l		10/8/04	LEF
Bromodichloromethane	<1	ug/l		10/8/04	LEF
Bromoform	<1	ug/l		10/8/04	LEF
Bromomethane	<1	ug/l		10/8/04	LEF
2-Butanone (MEK)	<10	ug/l		10/8/04	LEF
Carbon disulfide	<1	ug/l		10/8/04	LEF
Carbon tetrachloride	<1	ug/l		10/8/04	LEF
Chlorobenzene	4.4	ug/l		10/8/04	LEF
Chloroethane	<1	ug/l		10/8/04	LEF
Chloromethane	<1	ug/l		10/8/04	LEF
Chloroform	<1	ug/l		10/8/04	LEF
Dibromochloromethane	<1	ug/l		10/8/04	LEF
1,2-Dibromo-3-chloropropane	<1	ug/l		10/8/04	LEF
1,2-Dibromoethane(EDB)	<1	ug/l		10/8/04	LEF
Dibromomethane	<1	ug/l		10/8/04	LEF
1,2-Dichlorobenzene	<1	ug/l		10/8/04	LEF
1,4-Dichlorobenzene	<1	ug/l		10/8/04	LEF
trans-1,4-Dichloro-2-butene	<5	ug/l		10/8/04	LEF
1,1-Dichloroethane	<1	ug/l		10/8/04	LEF
1,2-Dichloroethane	<1	ug/l		10/8/04	LEF
1,1-Dichloroethene	<1	ug/l		10/8/04	LEF
cis-1,2-Dichloroethene	<1	ug/l		10/8/04	LEF
trans-1,2-Dichloroethene	<1	ug/l		10/8/04	LEF
1,2-Dichloropropane	<1	ug/l		10/8/04	LEF
cis-1,3-Dichloropropene	<1	ug/l		10/8/04	LEF
trans-1,3-Dichloropropene	<1	ug/l		10/8/04	LEF
Ethyl benzene	<1	ug/l		10/8/04	LEF
2-Hexanone	<10	ug/l		10/8/04	LEF
Iodomethane (Methyl iodide)	<5	ug/l		10/8/04	LEF
Methylene chloride	<1	ug/l		10/8/04	LEF
4-Methyl-2-pentanone (MIBK)	<10	ug/l		10/8/04	LEF
Styrene	<1	ug/l		10/8/04	LEF
1,1,1,2-Tetrachloroethane	<1	ug/l		10/8/04	LEF
1,1,2,2-Tetrachloroethane	<1	ug/l		10/8/04	LEF
Tetrachloroethene	<1	ug/l		10/8/04	LEF
Toluene	<1	ug/l		10/8/04	LEF
1,1,1-Trichloroethane	<1	ug/l		10/8/04	LEF
1,1,2-Trichloroethane	<1	ug/l		10/8/04	LEF
Trichloroethene	<1	ug/l		10/8/04	LEF
Trichlorofluoromethane (Freon 11)	<1	ug/l		10/8/04	LEF
1,2,3-Trichloropropane	<1	ug/l		10/8/04	LEF
Vinyl acetate	<5	ug/l		10/8/04	LEF
Vinyl chloride	<1	ug/l		10/8/04	LEF
Xylenes (Total)	<1	ug/l		10/8/04	LEF

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Date Printed: 11/1/04

Analysis performed at: (1) LSL Central, (2) LSL North, (3) LSL Finger Lakes, (4) LSL Southern Tier, (5) LSL MidLakes

-- LABORATORY ANALYSIS REPORT --

Delaware Engineering Albany, NY

Sample ID: MW-7D LSL Sample ID: 0417149-001

Location:

Sampled: 09/28/04 10:30 Sampled By: EF

Sample Matrix: NPW

Analytical Method			Prep	Analysis	Analyst
Analyte	Result	Units	Date	Date & Time	Initials
(1) EPA 8260B TCL Volatiles (Modified List)					
Surrogate (1,2-DCA-d4)	94	%R		10/8/04	LEF
Surrogate (Tol-d8)	96	%R		10/8/04	LEF
Surrogate (4-BFB)	101	%R		10/8/04	LEF
(1) EPA Method 300.0 A					
Bromide	0.50	mg/l		9/29/04	RAF
Chloride	27	mg/l		9/29/04	RAF
Nitrate as N	<0.1	mg/l		9/29/04 19:53	RAF
Sulfate	23	mg/l		9/29/04	RAF
(1) HACH 8000 COD					
Chemical Oxygen Demand	130	mg/l		10/1/04	JN
(5) SM 18 2320B, Alkalinity as CaCO3					
Alkalinity	290	mg/l		10/12/04	DSW
(1) SM 18 3500Cr-D Hexavalent Chromium					
Chromium, Hexavalent	<0.01	mg/l		9/29/04	JN
(1) SM 19 5310C TOC					
Total Organic Carbon	34	mg/l	10/5/04	10/5/04	DWK/K BB
(1) SM18-2540C Total Dissolved Solids					
Total Dissolved Solids @ 180 C	420	mg/l		10/4/04	MM

-- LABORATORY ANALYSIS REPORT --

Delaware Engineering Albany, NY

Sample ID: MW-1S LSL Sample ID: 0417149-002

Location:

Sampled: 09/28/04 11:20 Sampled By: EF

Sample Matrix: NPW

Analytical Method		Prep		Analysis		Analyst
Analyte	Result	Units	Date	Date & Time	Initials	
(1) EPA 110.2, Color						
Apparent Color	180	Units		9/29/04		JN
(1) EPA 200.7 Total Hardness as CaCO3						
Hardness, Total	5.4	mg/l		10/5/04		TER
(1) EPA 245.1 Total Mercury						
Mercury	<0.0002	mg/l		10/8/04		TER
The result of the calibration check sample associated with this analysis was less than the established control limit. Therefore, the analytical result reported above may be biased low.						
(1) EPA 335.2 Total Cyanide						
Cyanide, Total	0.010	mg/l	10/4/04	10/6/04		JN
(1) EPA 350.1 Ammonia						
Ammonia as N	0.14	mg/l		10/11/04		DRB
(1) EPA 351.2 TKN as N						
Total Kjeldahl Nitrogen	0.28	mg/l	10/8/04	10/11/04		DRB
(1) EPA 405.1 BOD-5						
Biochemical Oxygen Demand, 5 Day	<4	mg/l		9/29/04 15:00		MM
(1) EPA 420.1 Recoverable Phenolics ML						
Phenolics, Total Recoverable	<0.002	mg/l	10/11/04	10/12/04		JN
(1) EPA 6010 Total Metals						
Boron	<0.01	mg/l		10/5/04		TER
Potassium	<1	mg/l		10/5/04		TER
Iron	1.1	mg/l		10/5/04		TER
Manganese	0.061	mg/l		10/5/04		TER
Magnesium	<1	mg/l		10/5/04		TER
Lead	<0.01	mg/l		10/5/04		TER
Cadmium	<0.01	mg/l		10/5/04		TER
Aluminum	2.1	mg/l		10/5/04		TER
Calcium	2.2	mg/l		10/5/04		TER
Antimony	<0.01	mg/l		10/5/04		TER
Arsenic	<0.01	mg/l		10/5/04		TER
Beryllium	<0.01	mg/l		10/5/04		TER
Barium	<0.2	mg/l		10/5/04		TER
Sodium	1.2	mg/l		10/5/04		TER
Chromium	<0.01	mg/l		10/5/04		TER
Copper	<0.01	mg/l		10/5/04		TER
Nickel	<0.01	mg/l		10/5/04		TER
Selenium	<0.01	mg/l		10/5/04		TER
Silver	<0.01	mg/l		10/5/04		TER
Thallium	<0.01	mg/l		10/5/04		TER
Zinc	0.022	mg/l		10/5/04		TER
Cobalt	<0.01	mg/l		10/5/04		TER
Vanadium	<0.01	mg/l		10/5/04		TER

-- LABORATORY ANALYSIS REPORT --

Delaware Engineering Albany, NY

Sample ID:	MW-1S	LSL Sample ID:	0417149-002
Location:			
Sampled:	09/28/04 11:20	Sampled By:	EF
Sample Matrix:	NPW		

Analytical Method	Prep Date	Analysis Date & Time	Analyst Initials
Analvte	Result	Units	
(1) EPA 8260B TCL Volatiles (Modified List)			
Acetone	<10	ug/l	LEF
Acrylonitrile	<5	ug/l	LEF
Benzene	<1	ug/l	LEF
Bromochloromethane	<1	ug/l	LEF
Bromodichloromethane	<1	ug/l	LEF
Bromoform	<1	ug/l	LEF
Bromomethane	<1	ug/l	LEF
2-Butanone (MEK)	<10	ug/l	LEF
Carbon disulfide	<1	ug/l	LEF
Carbon tetrachloride	<1	ug/l	LEF
Chlorobenzene	<1	ug/l	LEF
Chloroethane	<1	ug/l	LEF
Chloromethane	<1	ug/l	LEF
Chloroform	<1	ug/l	LEF
Dibromochloromethane	<1	ug/l	LEF
1,2-Dibromo-3-chloropropane	<1	ug/l	LEF
1,2-Dibromoethane(EDB)	<1	ug/l	LEF
Dibromomethane	<1	ug/l	LEF
1,2-Dichlorobenzene	<1	ug/l	LEF
1,4-Dichlorobenzene	<1	ug/l	LEF
trans-1,4-Dichloro-2-butene	<5	ug/l	LEF
1,1-Dichloroethane	<1	ug/l	LEF
1,2-Dichloroethane	<1	ug/l	LEF
1,1-Dichloroethene	<1	ug/l	LEF
cis-1,2-Dichloroethene	<1	ug/l	LEF
trans-1,2-Dichloroethene	<1	ug/l	LEF
1,2-Dichloropropane	<1	ug/l	LEF
cis-1,3-Dichloropropene	<1	ug/l	LEF
trans-1,3-Dichloropropene	<1	ug/l	LEF
Ethyl benzene	<1	ug/l	LEF
2-Hexanone	<10	ug/l	LEF
Iodomethane (Methyl iodide)	<5	ug/l	LEF
Methylene chloride	<1	ug/l	LEF
4-Methyl-2-pentanone (MIBK)	<10	ug/l	LEF
Styrene	<1	ug/l	LEF
1,1,1,2-Tetrachloroethane	<1	ug/l	LEF
1,1,2,2-Tetrachloroethane	<1	ug/l	LEF
Tetrachloroethene	<1	ug/l	LEF
Toluene	<1	ug/l	LEF
1,1,1-Trichloroethane	<1	ug/l	LEF
1,1,2-Trichloroethane	<1	ug/l	LEF
Trichloroethene	<1	ug/l	LEF
Trichlorofluoromethane (Freon 11)	<1	ug/l	LEF
1,2,3-Trichloropropane	<1	ug/l	LEF
Vinyl acetate	<5	ug/l	LEF
Vinyl chloride	<1	ug/l	LEF
Xylenes (Total)	<1	ug/l	LEF

-- LABORATORY ANALYSIS REPORT --

Delaware Engineering Albany, NY

Sample ID: MW-1S

LSL Sample ID: 0417149-002

Location:

Sampled: 09/28/04 11:20

Sampled By: EF

Sample Matrix: NPW

Analytical Method		Result	Units	Prep Date	Analysis Date & Time	Analyst Initials
Analyte						
(1)	EPA 8260B TCL Volatiles (Modified List)					
	Surrogate (1,2-DCA-d4)	94	%R		10/8/04	LEF
	Surrogate (Tol-d8)	96	%R		10/8/04	LEF
	Surrogate (4-BFB)	104	%R		10/8/04	LEF
(1)	EPA Method 300.0 A					
	Bromide	<0.1	mg/l		9/29/04	RAF
	Chloride	2.5	mg/l		9/29/04	RAF
	Nitrate as N	0.14	mg/l		9/29/04 20:46	RAF
	Sulfate	7.1	mg/l		9/29/04	RAF
(1)	HACH 8000 COD					
	Chemical Oxygen Demand	7.9	mg/l		10/1/04	JN
(5)	SM 18 2320B, Alkalinity as CaCO3					
	Alkalinity	8.0	mg/l		10/12/04	DSW
(1)	SM 18 3500Cr-D Hexavalent Chromium					
	Chromium, Hexavalent	<0.01	mg/l		9/29/04	JN
(1)	SM 19 5310C TOC					
	Total Organic Carbon	3.0	mg/l	10/5/04	10/5/04	DWK/K BB
(1)	SM18-2540C Total Dissolved Solids					
	Total Dissolved Solids @ 180 C	52	mg/l		10/4/04	MM

- - LABORATORY ANALYSIS REPORT - -

Delaware Engineering Albany, NY

Sample ID:	MW-12	LSL Sample ID:	0417149-003
Location:			
Sampled:	09/28/04 11:45	Sampled By:	EF
Sample Matrix:	NPW		

Analytical Method	Result	Units	Prep Date	Analysis Date & Time	Analyst Initials
Analyte					
(1) EPA 110.2, Color					
Apparent Color	1400	Units		9/29/04	JN
(1) EPA 200.7 Total Hardness as CaCO3					
Hardness, Total	450	mg/l		10/5/04	TER
(1) EPA 245.1 Total Mercury					
Mercury	<0.0002	mg/l		10/8/04	TER
<i>The result of the calibration check sample associated with this analysis was less than the established control limit. Therefore, the analytical result reported above may be biased low.</i>					
(1) EPA 335.2 Total Cyanide					
Cyanide, Total	<0.01	mg/l	10/6/04	10/6/04	JN
(1) EPA 350.1 Ammonia					
Ammonia as N	220	mg/l		10/11/04	DRB
(1) EPA 351.2 TKN as N					
Total Kjeldahl Nitrogen	230	mg/l	10/8/04	10/11/04	DRB
(1) EPA 405.1 BOD-5					
Biochemical Oxygen Demand, 5 Day	35	mg/l		9/29/04 15:00	MM
(1) EPA 420.1 Recoverable Phenolics ML					
Phenolics, Total Recoverable	0.019	mg/l	10/11/04	10/12/04	JN
(1) EPA 6010 Total Metals					
Boron	2.8	mg/l		10/5/04	TER
Potassium	400	mg/l		10/7/04	TER
<i>The result of the calibration check sample associated with this analysis was greater than the established control limit. Therefore, the analytical result reported above may be biased high.</i>					
Iron	42	mg/l		10/5/04	TER
Manganese	0.28	mg/l		10/5/04	TER
Magnesium	63	mg/l		10/5/04	TER
Lead	<0.01	mg/l		10/5/04	TER
Cadmium	<0.01	mg/l		10/5/04	TER
Aluminum	0.45	mg/l		10/5/04	TER
Calcium	76	mg/l		10/5/04	TER
Antimony	0.014	mg/l		10/5/04	TER
Arsenic	0.026	mg/l		10/5/04	TER
Beryllium	<0.01	mg/l		10/5/04	TER
Barium	0.22	mg/l		10/5/04	TER
Sodium	320	mg/l		10/5/04	TER
Chromium	<0.01	mg/l		10/5/04	TER
Copper	<0.01	mg/l		10/5/04	TER
Nickel	0.024	mg/l		10/5/04	TER
Selenium	<0.01	mg/l		10/5/04	TER
Silver	<0.01	mg/l		10/5/04	TER
Thallium	<0.01	mg/l		10/5/04	TER
Zinc	0.026	mg/l		10/5/04	TER
Cobalt	<0.01	mg/l		10/5/04	TER
Vanadium	0.026	mg/l		10/5/04	TER

- - LABORATORY ANALYSIS REPORT - -

Delaware Engineering Albany, NY

Sample ID:	MW-12	LSL Sample ID:	0417149-003
Location:			
Sampled:	09/28/04 11:45	Sampled By:	EF
Sample Matrix:	NPW		

Analytical Method	Prep Date	Analysis Date & Time	Analyst Initials
Analyte	Result	Units	
(1) EPA 8260B TCL Volatiles (Modified List)			
Acetone	<10	ug/l	LEF
Acrylonitrile	<5	ug/l	LEF
Benzene	16	ug/l	LEF
Bromochloromethane	<1	ug/l	LEF
Bromodichloromethane	<1	ug/l	LEF
Bromoform	<1	ug/l	LEF
Bromomethane	<1	ug/l	LEF
2-Butanone (MEK)	<10	ug/l	LEF
Carbon disulfide	<1	ug/l	LEF
Carbon tetrachloride	<1	ug/l	LEF
Chlorobenzene	1.6	ug/l	LEF
Chloroethane	<1	ug/l	LEF
Chloromethane	<1	ug/l	LEF
Chloroform	<1	ug/l	LEF
Dibromochloromethane	<1	ug/l	LEF
1,2-Dibromo-3-chloropropane	<1	ug/l	LEF
1,2-Dibromoethane(EDB)	<1	ug/l	LEF
Dibromomethane	<1	ug/l	LEF
1,2-Dichlorobenzene	<1	ug/l	LEF
1,4-Dichlorobenzene	<1	ug/l	LEF
trans-1,4-Dichloro-2-butene	<5	ug/l	LEF
1,1-Dichloroethane	<1	ug/l	LEF
1,2-Dichloroethane	<1	ug/l	LEF
1,1-Dichloroethene	<1	ug/l	LEF
cis-1,2-Dichloroethene	<1	ug/l	LEF
trans-1,2-Dichloroethene	<1	ug/l	LEF
1,2-Dichloropropane	<1	ug/l	LEF
cis-1,3-Dichloropropene	<1	ug/l	LEF
trans-1,3-Dichloropropene	<1	ug/l	LEF
Ethyl benzene	<1	ug/l	LEF
2-Hexanone	<10	ug/l	LEF
Iodomethane (Methyl iodide)	<5	ug/l	LEF
Methylene chloride	<1	ug/l	LEF
4-Methyl-2-pentanone (MIBK)	<10	ug/l	LEF
Styrene	<1	ug/l	LEF
1,1,1,2-Tetrachloroethane	<1	ug/l	LEF
1,1,2,2-Tetrachloroethane	<1	ug/l	LEF
Tetrachloroethene	<1	ug/l	LEF
Toluene	<1	ug/l	LEF
1,1,1-Trichloroethane	<1	ug/l	LEF
1,1,2-Trichloroethane	<1	ug/l	LEF
Trichloroethene	<1	ug/l	LEF
Trichlorofluoromethane (Freon 11)	<1	ug/l	LEF
1,2,3-Trichloropropane	<1	ug/l	LEF
Vinyl acetate	<5	ug/l	LEF
Vinyl chloride	<1	ug/l	LEF
Xylenes (Total)	2.0	ug/l	LEF

-- LABORATORY ANALYSIS REPORT --

Delaware Engineering Albany, NY

Sample ID: MW-12 LSL Sample ID: 0417149-003

Location:

Sampled: 09/28/04 11:45 Sampled By: EF

Sample Matrix: NPW

Analytical Method			Prep	Analysis	Analyst
Analyte	Result	Units	Date	Date & Time	Initials
(1) EPA 8260B TCL Volatiles (Modified List)					
Surrogate (1,2-DCA-d4)	99	%R		10/8/04	LEF
Surrogate (Tol-d8)	95	%R		10/8/04	LEF
Surrogate (4-BFB)	98	%R		10/8/04	LEF
(1) EPA Method 300.0 A					
Bromide	4.8	mg/l		9/29/04	RAF
Chloride	270	mg/l		10/1/04	RAF
Nitrate as N	0.20	mg/l		9/29/04 21:04	RAF
Sulfate	2.3	mg/l		9/29/04	RAF
(1) HACH 8000 COD					
Chemical Oxygen Demand	420	mg/l		10/1/04	JN
(5) SM 18 2320B, Alkalinity as CaCO3					
Alkalinity	1700	mg/l		10/12/04	DSW
(1) SM 18 3500Cr-D Hexavalent Chromium					
Chromium, Hexavalent	<0.01	mg/l		9/29/04	JN
(1) SM 19 5310C TOC					
Total Organic Carbon	140	mg/l	10/5/04	10/5/04	DWK/K BB
(1) SM18-2540C Total Dissolved Solids					
Total Dissolved Solids @ 180 C	1700	mg/l		10/4/04	MM

-- LABORATORY ANALYSIS REPORT --

Delaware Engineering Albany, NY

Sample ID: MW-3S LSL Sample ID: 0417149-004

Location:

Sampled: 09/28/04 12:52 Sampled By: EF

Sample Matrix: NPW

Analytical Method	Result	Units	Prep Date	Analysis Date & Time	Analyst Initials
Analyte					
(1) EPA 110.2, Color					
Apparent Color	750	Units		9/29/04	JN
(1) EPA 200.7 Total Hardness as CaCO3					
Hardness, Total	100	mg/l		10/5/04	TER
(1) EPA 245.1 Total Mercury					
Mercury	<0.0002	mg/l		10/8/04	TER
The result of the calibration check sample associated with this analysis was less than the established control limit. Therefore, the analytical result reported above may be biased low.					
(1) EPA 335.2 Total Cyanide					
Cyanide, Total	<0.01	mg/l	10/6/04	10/6/04	JN
(1) EPA 350.1 Ammonia					
Ammonia as N	56	mg/l		10/11/04	DRB
(1) EPA 351.2 TKN as N					
Total Kjeldahl Nitrogen	50	mg/l	10/8/04	10/11/04	DRB
(1) EPA 405.1 BOD-5					
Biochemical Oxygen Demand, 5 Day	16	mg/l		9/29/04 15:00	MM
(1) EPA 420.1 Recoverable Phenolics ML					
Phenolics, Total Recoverable	<0.002	mg/l	10/11/04	10/12/04	JN
(1) EPA 6010 Total Metals					
Boron	0.37	mg/l		10/5/04	TER
Potassium	110	mg/l		10/7/04	TER
The result of the calibration check sample associated with this analysis was greater than the established control limit. Therefore, the analytical result reported above may be biased high.					
Iron	9.3	mg/l		10/5/04	TER
Manganese	0.38	mg/l		10/5/04	TER
Magnesium	6.8	mg/l		10/5/04	TER
Lead	<0.01	mg/l		10/5/04	TER
Cadmium	<0.01	mg/l		10/5/04	TER
Aluminum	0.44	mg/l		10/5/04	TER
Calcium	29	mg/l		10/5/04	TER
Antimony	<0.01	mg/l		10/5/04	TER
Arsenic	0.012	mg/l		10/5/04	TER
Beryllium	<0.01	mg/l		10/5/04	TER
Barium	<0.2	mg/l		10/5/04	TER
Sodium	6.1	mg/l		10/5/04	TER
Chromium	<0.01	mg/l		10/5/04	TER
Copper	<0.01	mg/l		10/5/04	TER
Nickel	0.011	mg/l		10/5/04	TER
Selenium	<0.01	mg/l		10/5/04	TER
Silver	<0.01	mg/l		10/5/04	TER
Thallium	<0.01	mg/l		10/5/04	TER
Zinc	0.020	mg/l		10/5/04	TER
Cobalt	<0.01	mg/l		10/5/04	TER
Vanadium	0.018	mg/l		10/5/04	TER

- - LABORATORY ANALYSIS REPORT - -

Delaware Engineering Albany, NY

Sample ID:	MW-3S	LSL Sample ID:	0417149-004
Location:			
Sampled:	09/28/04 12:52	Sampled By:	EF
Sample Matrix:	NPW		

Analytical Method			Prep Date	Analysis Date & Time	Analyst Initials
Analyte	Result	Units			
(1) EPA 8260B TCL Volatiles (Modified List)					
Acetone	<10	ug/l		10/8/04	LEF
Acrylonitrile	<5	ug/l		10/8/04	LEF
Benzene	<1	ug/l		10/8/04	LEF
Bromochloromethane	<1	ug/l		10/8/04	LEF
Bromodichloromethane	<1	ug/l		10/8/04	LEF
Bromoform	<1	ug/l		10/8/04	LEF
Bromomethane	<1	ug/l		10/8/04	LEF
2-Butanone (MEK)	<10	ug/l		10/8/04	LEF
Carbon disulfide	<1	ug/l		10/8/04	LEF
Carbon tetrachloride	<1	ug/l		10/8/04	LEF
Chlorobenzene	<1	ug/l		10/8/04	LEF
Chloroethane	<1	ug/l		10/8/04	LEF
Chloromethane	<1	ug/l		10/8/04	LEF
Chloroform	<1	ug/l		10/8/04	LEF
Dibromochloromethane	<1	ug/l		10/8/04	LEF
1,2-Dibromo-3-chloropropane	<1	ug/l		10/8/04	LEF
1,2-Dibromoethane(EDB)	<1	ug/l		10/8/04	LEF
Dibromomethane	<1	ug/l		10/8/04	LEF
1,2-Dichlorobenzene	<1	ug/l		10/8/04	LEF
1,4-Dichlorobenzene	<1	ug/l		10/8/04	LEF
trans-1,4-Dichloro-2-butene	<5	ug/l		10/8/04	LEF
1,1-Dichloroethane	<1	ug/l		10/8/04	LEF
1,2-Dichloroethane	<1	ug/l		10/8/04	LEF
1,1-Dichloroethene	<1	ug/l		10/8/04	LEF
cis-1,2-Dichloroethene	<1	ug/l		10/8/04	LEF
trans-1,2-Dichloroethene	<1	ug/l		10/8/04	LEF
1,2-Dichloropropane	<1	ug/l		10/8/04	LEF
cis-1,3-Dichloropropene	<1	ug/l		10/8/04	LEF
trans-1,3-Dichloropropene	<1	ug/l		10/8/04	LEF
Ethyl benzene	<1	ug/l		10/8/04	LEF
2-Hexanone	<10	ug/l		10/8/04	LEF
Iodomethane (Methyl iodide)	<5	ug/l		10/8/04	LEF
Methylene chloride	<1	ug/l		10/8/04	LEF
4-Methyl-2-pentanone (MIBK)	<10	ug/l		10/8/04	LEF
Styrene	<1	ug/l		10/8/04	LEF
1,1,1,2-Tetrachloroethane	<1	ug/l		10/8/04	LEF
1,1,2,2-Tetrachloroethane	<1	ug/l		10/8/04	LEF
Tetrachloroethene	<1	ug/l		10/8/04	LEF
Toluene	<1	ug/l		10/8/04	LEF
1,1,1-Trichloroethane	<1	ug/l		10/8/04	LEF
1,1,2-Trichloroethane	<1	ug/l		10/8/04	LEF
Trichloroethene	<1	ug/l		10/8/04	LEF
Trichlorofluoromethane (Freon 11)	<1	ug/l		10/8/04	LEF
1,2,3-Trichloropropane	<1	ug/l		10/8/04	LEF
Vinyl acetate	<5	ug/l		10/8/04	LEF
Vinyl chloride	<1	ug/l		10/8/04	LEF
Xylenes (Total)	<1	ug/l		10/8/04	LEF

- - LABORATORY ANALYSIS REPORT - -

Delaware Engineering Albany, NY

Sample ID:	MW-3S	LSL Sample ID:	0417149-004		
Location:					
Sampled:	09/28/04 12:52	Sampled By:	EF		
Sample Matrix:	NPW				
Analytical Method			Prep Date	Analysis Date & Time	Analyst Initials
Analyte	Result	Units			
(1) EPA 8260B TCL Volatiles (Modified List)					
Surrogate (1,2-DCA-d4)	101	%R		10/8/04	LEF
Surrogate (Tol-d8)	99	%R		10/8/04	LEF
Surrogate (4-BFB)	100	%R		10/8/04	LEF
(1) EPA Method 300.0 A					
Bromide	<0.1	mg/l		9/29/04	RAF
Chloride	3.3	mg/l		9/29/04	RAF
Nitrate as N	0.15	mg/l		9/29/04 21:21	RAF
Sulfate	36	mg/l		9/29/04	RAF
(1) HACH 8000 COD					
Chemical Oxygen Demand	84	mg/l		10/1/04	JN
(5) SM 18 2320B, Alkalinity as CaCO3					
Alkalinity	340	mg/l		10/12/04	DSW
(1) SM 18 3500Cr-D Hexavalent Chromium					
Chromium, Hexavalent	<0.01	mg/l		9/29/04	JN
(1) SM 19 5310C TOC					
Total Organic Carbon	26	mg/l	10/5/04	10/5/04	DWK/K
This result should be considered an estimate because the concentration exceeded the linear range of the instrument.					BB
(1) SM18-2540C Total Dissolved Solids					
Total Dissolved Solids @ 180 C	350	mg/l		10/4/04	MM

-- LABORATORY ANALYSIS REPORT --

Delaware Engineering Albany, NY

Sample ID:	MW-9S	LSL Sample ID:	0417149-005
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Location:

Sampled:	09/28/04 13:40	Sampled By:	EF
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Sample Matrix: NPW

Analytical Method				Prep Date	Analysis Date & Time	Analyst Initials
Analyte	Result	Units				
(1) EPA 110.2, Color						
Apparent Color	700	Units			9/29/04	JN
(1) EPA 200.7 Total Hardness as CaCO3						
Hardness, Total	280	mg/l			10/5/04	TER
(1) EPA 245.1 Total Mercury						
Mercury	<0.0002	mg/l			10/13/04	TER
(1) EPA 335.2 Total Cyanide						
Cyanide, Total	<0.01	mg/l		10/6/04	10/6/04	JN
(1) EPA 350.1 Ammonia						
Ammonia as N	0.48	mg/l			10/11/04	DRB
(1) EPA 351.2 TKN as N						
Total Kjeldahl Nitrogen	0.78	mg/l		10/8/04	10/11/04	DRB
(1) EPA 405.1 BOD-5						
Biochemical Oxygen Demand, 5 Day	4.7	mg/l			9/29/04 15:00	MM
(1) EPA 420.1 Recoverable Phenolics ML						
Phenolics, Total Recoverable	<0.002	mg/l		10/11/04	10/12/04	JN
(1) EPA 6010 Total Metals						
Boron	0.027	mg/l			10/5/04	TER
Potassium	2.2	mg/l			10/5/04	TER
<i>The result of the calibration check sample associated with this analysis was greater than the established control limit. Therefore, the analytical result reported above may be biased high.</i>						
Iron	6.1	mg/l			10/5/04	TER
Manganese	0.96	mg/l			10/5/04	TER
Magnesium	16	mg/l			10/5/04	TER
Lead	<0.01	mg/l			10/5/04	TER
Cadmium	<0.01	mg/l			10/5/04	TER
Aluminum	1.4	mg/l			10/5/04	TER
Calcium	84	mg/l			10/5/04	TER
Antimony	<0.01	mg/l			10/5/04	TER
Arsenic	<0.01	mg/l			10/5/04	TER
Beryllium	<0.01	mg/l			10/5/04	TER
Barium	<0.2	mg/l			10/5/04	TER
Sodium	33	mg/l			10/5/04	TER
Chromium	<0.01	mg/l			10/5/04	TER
Copper	<0.01	mg/l			10/5/04	TER
Nickel	0.014	mg/l			10/5/04	TER
Selenium	<0.01	mg/l			10/5/04	TER
Silver	<0.01	mg/l			10/5/04	TER
Thallium	<0.01	mg/l			10/5/04	TER
Zinc	0.022	mg/l			10/5/04	TER
Cobalt	<0.01	mg/l			10/5/04	TER
Vanadium	<0.01	mg/l			10/5/04	TER
(1) EPA 8260B TCL Volatiles (Modified List)						
Acetone	<10	ug/l			10/8/04	LEF

- - LABORATORY ANALYSIS REPORT - -

Delaware Engineering Albany, NY

Sample ID:	MW-9S	LSL Sample ID:	0417149-005
Location:			
Sampled:	09/28/04 13:40	Sampled By:	EF
Sample Matrix:	NPW		

Analytical Method			Prep Date	Analysis Date & Time	Analyst Initials
Analyte	Result	Units			
(1) EPA 8260B TCL Volatiles (Modified List)					
Acrylonitrile	<5	ug/l		10/8/04	LEF
Benzene	<1	ug/l		10/8/04	LEF
Bromochloromethane	<1	ug/l		10/8/04	LEF
Bromodichloromethane	<1	ug/l		10/8/04	LEF
Bromoform	<1	ug/l		10/8/04	LEF
Bromomethane	<1	ug/l		10/8/04	LEF
2-Butanone (MEK)	<10	ug/l		10/8/04	LEF
Carbon disulfide	<1	ug/l		10/8/04	LEF
Carbon tetrachloride	<1	ug/l		10/8/04	LEF
Chlorobenzene	<1	ug/l		10/8/04	LEF
Chloroethane	<1	ug/l		10/8/04	LEF
Chloromethane	<1	ug/l		10/8/04	LEF
Chloroform	<1	ug/l		10/8/04	LEF
Dibromochloromethane	<1	ug/l		10/8/04	LEF
1,2-Dibromo-3-chloropropane	<1	ug/l		10/8/04	LEF
1,2-Dibromoethane(EDB)	<1	ug/l		10/8/04	LEF
Dibromomethane	<1	ug/l		10/8/04	LEF
1,2-Dichlorobenzene	<1	ug/l		10/8/04	LEF
1,4-Dichlorobenzene	<1	ug/l		10/8/04	LEF
trans-1,4-Dichloro-2-butene	<5	ug/l		10/8/04	LEF
1,1-Dichloroethane	<1	ug/l		10/8/04	LEF
1,2-Dichloroethane	<1	ug/l		10/8/04	LEF
1,1-Dichloroethene	<1	ug/l		10/8/04	LEF
cis-1,2-Dichloroethene	<1	ug/l		10/8/04	LEF
trans-1,2-Dichloroethene	<1	ug/l		10/8/04	LEF
1,2-Dichloropropane	<1	ug/l		10/8/04	LEF
cis-1,3-Dichloropropene	<1	ug/l		10/8/04	LEF
trans-1,3-Dichloropropene	<1	ug/l		10/8/04	LEF
Ethyl benzene	<1	ug/l		10/8/04	LEF
2-Hexanone	<10	ug/l		10/8/04	LEF
Iodomethane (Methyl iodide)	<5	ug/l		10/8/04	LEF
Methylene chloride	<1	ug/l		10/8/04	LEF
4-Methyl-2-pentanone (MIBK)	<10	ug/l		10/8/04	LEF
Styrene	<1	ug/l		10/8/04	LEF
1,1,1,2-Tetrachloroethane	<1	ug/l		10/8/04	LEF
1,1,2,2-Tetrachloroethane	<1	ug/l		10/8/04	LEF
Tetrachloroethene	<1	ug/l		10/8/04	LEF
Toluene	<1	ug/l		10/8/04	LEF
1,1,1-Trichloroethane	<1	ug/l		10/8/04	LEF
1,1,2-Trichloroethane	<1	ug/l		10/8/04	LEF
Trichloroethene	<1	ug/l		10/8/04	LEF
Trichlorofluoromethane (Freon 11)	<1	ug/l		10/8/04	LEF
1,2,3-Trichloropropane	<1	ug/l		10/8/04	LEF
Vinyl acetate	<5	ug/l		10/8/04	LEF
Vinyl chloride	<1	ug/l		10/8/04	LEF
Xylenes (Total)	<1	ug/l		10/8/04	LEF
Surrogate (1,2-DCA-d4)	97	%R		10/8/04	LEF

-- LABORATORY ANALYSIS REPORT --

Delaware Engineering Albany, NY

Sample ID: MW-9S

LSL Sample ID: 0417149-005

Location:

Sampled: 09/28/04 13:40

Sampled By: EF

Sample Matrix: NPW

Analytical Method		Result	Units	Prep Date	Analysis Date & Time	Analyst Initials
Analyte						
(1)	EPA 8260B TCL Volatiles (Modified List)					
	Surrogate (Tol-d8)	97	%R		10/8/04	LEF
	Surrogate (4-BFB)	98	%R		10/8/04	LEF
(1)	EPA Method 300.0 A					
	Bromide	<0.1	mg/l		9/29/04	RAF
	Chloride	3.0	mg/l		9/29/04	RAF
	Nitrate as N	<0.1	mg/l		9/29/04 21:39	RAF
	Sulfate	1.9	mg/l		9/29/04	RAF
(1)	HACH 8000 COD					
	Chemical Oxygen Demand	79	mg/l		10/1/04	JN
(5)	SM 18 2320B, Alkalinity as CaCO3					
	Alkalinity	210	mg/l		10/12/04	DSW
(1)	SM 18 3500Cr-D Hexavalent Chromium					
	Chromium, Hexavalent	<0.01	mg/l		9/29/04	JN
(1)	SM 19 5310C TOC					
	Total Organic Carbon	24	mg/l	10/5/04	10/5/04	DWK/K BB
(1)	SM18-2540C Total Dissolved Solids					
	Total Dissolved Solids @ 180 C	370	mg/l		10/4/04	MM

-- LABORATORY ANALYSIS REPORT --

Delaware Engineering Albany, NY

Sample ID: MW-2D LSL Sample ID: 0417149-006

Location:

Sampled: 09/28/04 14:15 Sampled By: EF

Sample Matrix: NPW

Analytical Method	Result	Units	Prep Date	Analysis Date & Time	Analyst Initials
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(1) EPA 110.2, Color	650	Units		9/29/04	JN
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(1) EPA 200.7 Total Hardness as CaCO3	90	mg/l		10/5/04	TER
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(1) EPA 245.1 Total Mercury	<0.0002	mg/l		10/13/04	TER
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(1) EPA 335.2 Total Cyanide	<0.01	mg/l	10/6/04	10/6/04	JN
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(1) EPA 350.1 Ammonia	2.5	mg/l		10/11/04	DRB
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(1) EPA 351.2 TKN as N	5.0	mg/l	10/8/04	10/11/04	DRB
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(1) EPA 405.1 BOD-5	7.5	mg/l		9/29/04 15:00	MM
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(1) EPA 420.1 Recoverable Phenolics ML	<0.002	mg/l	10/11/04	10/12/04	JN
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(1) EPA 6010 Total Metals	0.089	mg/l		10/5/04	TER
Boron	17	mg/l		10/5/04	TER

The result of the calibration check sample associated with this analysis was greater than the established control limit. Therefore, the analytical result reported above may be biased high.

Iron	11	mg/l		10/5/04	TER
Manganese	1.1	mg/l		10/5/04	TER
Magnesium	3.9	mg/l		10/5/04	TER
Lead	<0.01	mg/l		10/5/04	TER
Cadmium	<0.01	mg/l		10/5/04	TER
Aluminum	0.37	mg/l		10/5/04	TER
Calcium	29	mg/l		10/5/04	TER
Antimony	<0.01	mg/l		10/5/04	TER
Arsenic	0.011	mg/l		10/5/04	TER
Beryllium	<0.01	mg/l		10/5/04	TER
Barium	0.23	mg/l		10/5/04	TER
Sodium	3.0	mg/l		10/5/04	TER
Chromium	<0.01	mg/l		10/5/04	TER
Copper	<0.01	mg/l		10/5/04	TER
Nickel	<0.01	mg/l		10/5/04	TER
Selenium	<0.01	mg/l		10/5/04	TER
Silver	<0.01	mg/l		10/5/04	TER
Thallium	<0.01	mg/l		10/5/04	TER
Zinc	0.017	mg/l		10/5/04	TER
Cobalt	<0.01	mg/l		10/5/04	TER
Vanadium	0.012	mg/l		10/5/04	TER

(1) EPA 8260B TCL Volatiles (Modified List)	<10	ug/l		10/8/04	LEF
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Date Printed: 11/1/04

Analysis performed at: (1) LSL Central, (2) LSL North, (3) LSL Finger Lakes, (4) LSL Southern Tier, (5) LSL MidLakes

-- LABORATORY ANALYSIS REPORT --

Delaware Engineering Albany, NY

Sample ID:	MW-2D	LSL Sample ID:	0417149-006
Location:			
Sampled:	09/28/04 14:15	Sampled By:	EF
Sample Matrix: NPW			

Analytical Method	Prep Date	Analysis Date & Time	Analyst Initials
Analyte	Result	Units	

(1) EPA 8260B TCL Volatiles (Modified List)

Acrylonitrile	<5	ug/l	10/8/04	LEF
Benzene	<1	ug/l	10/8/04	LEF
Bromochloromethane	<1	ug/l	10/8/04	LEF
Bromodichloromethane	<1	ug/l	10/8/04	LEF
Bromoform	<1	ug/l	10/8/04	LEF
Bromomethane	<1	ug/l	10/8/04	LEF
2-Butanone (MEK)	<10	ug/l	10/8/04	LEF
Carbon disulfide	<1	ug/l	10/8/04	LEF
Carbon tetrachloride	<1	ug/l	10/8/04	LEF
Chlorobenzene	<1	ug/l	10/8/04	LEF
Chloroethane	<1	ug/l	10/8/04	LEF
Chloromethane	<1	ug/l	10/8/04	LEF
Chloroform	<1	ug/l	10/8/04	LEF
Dibromochloromethane	<1	ug/l	10/8/04	LEF
1,2-Dibromo-3-chloropropane	<1	ug/l	10/8/04	LEF
1,2-Dibromoethane(EDB)	<1	ug/l	10/8/04	LEF
Dibromomethane	<1	ug/l	10/8/04	LEF
1,2-Dichlorobenzene	<1	ug/l	10/8/04	LEF
1,4-Dichlorobenzene	<1	ug/l	10/8/04	LEF
trans-1,4-Dichloro-2-butene	<5	ug/l	10/8/04	LEF
1,1-Dichloroethane	<1	ug/l	10/8/04	LEF
1,2-Dichloroethane	<1	ug/l	10/8/04	LEF
1,1-Dichloroethene	<1	ug/l	10/8/04	LEF
cis-1,2-Dichloroethene	<1	ug/l	10/8/04	LEF
trans-1,2-Dichloroethene	<1	ug/l	10/8/04	LEF
1,2-Dichloropropane	<1	ug/l	10/8/04	LEF
cis-1,3-Dichloropropene	<1	ug/l	10/8/04	LEF
trans-1,3-Dichloropropene	<1	ug/l	10/8/04	LEF
Ethyl benzene	<1	ug/l	10/8/04	LEF
2-Hexanone	<10	ug/l	10/8/04	LEF
Iodomethane (Methyl iodide)	<5	ug/l	10/8/04	LEF
Methylene chloride	<1	ug/l	10/8/04	LEF
4-Methyl-2-pentanone (MIBK)	<10	ug/l	10/8/04	LEF
Styrene	<1	ug/l	10/8/04	LEF
1,1,1,2-Tetrachloroethane	<1	ug/l	10/8/04	LEF
1,1,2,2-Tetrachloroethane	<1	ug/l	10/8/04	LEF
Tetrachloroethene	<1	ug/l	10/8/04	LEF
Toluene	<1	ug/l	10/8/04	LEF
1,1,1-Trichloroethane	<1	ug/l	10/8/04	LEF
1,1,2-Trichloroethane	<1	ug/l	10/8/04	LEF
Trichloroethene	<1	ug/l	10/8/04	LEF
Trichlorofluoromethane (Freon 11)	<1	ug/l	10/8/04	LEF
1,2,3-Trichloropropane	<1	ug/l	10/8/04	LEF
Vinyl acetate	<5	ug/l	10/8/04	LEF
Vinyl chloride	<1	ug/l	10/8/04	LEF
Xylenes (Total)	<1	ug/l	10/8/04	LEF
Surrogate (1,2-DCA-d4)	98	%R	10/8/04	LEF

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Date Printed: 11/1/04

Analysis performed at: (1) LSL Central, (2) LSL North, (3) LSL Finger Lakes, (4) LSL Southern Tier, (5) LSL MidLakes

-- LABORATORY ANALYSIS REPORT --

Delaware Engineering Albany, NY

Sample ID: MW-2D

LSL Sample ID: 0417149-006

Location:

Sampled: 09/28/04 14:15

Sampled By: EF

Sample Matrix: NPW

Analytical Method

Analyte	Result	Units	Prep Date	Analysis Date & Time	Analyst Initials
(1) EPA 8260B TCL Volatiles (Modified List)					
Surrogate (Tol-d8)	98	%R		10/8/04	LEF
Surrogate (4-BFB)	101	%R		10/8/04	LEF
(1) EPA Method 300.0 A					
Bromide	0.12	mg/l		9/29/04	RAF
Chloride	3.8	mg/l		9/29/04	RAF
Nitrate as N	0.17	mg/l		9/29/04 21:57	RAF
Sulfate	33	mg/l		9/29/04	RAF
(1) HACH 8000 COD					
Chemical Oxygen Demand	32	mg/l		10/1/04	JN
(5) SM 18 2320B, Alkalinity as CaCO3					
Alkalinity	74	mg/l		10/12/04	DSW
(1) SM 18 3500Cr-D Hexavalent Chromium					
Chromium, Hexavalent	<0.01	mg/l		9/29/04	JN
(1) SM 19 5310C TOC					
Total Organic Carbon	8.0	mg/l	10/5/04	10/5/04	DWK/K BB
(1) SM18-2540C Total Dissolved Solids					
Total Dissolved Solids @ 180 C	160	mg/l		10/4/04	MM

- - LABORATORY ANALYSIS REPORT - -

Delaware Engineering Albany, NY

Sample ID:	MW-4S	LSL Sample ID:	0417149-007
Location:			
Sampled:	09/28/04 15:15	Sampled By:	EF
Sample Matrix:	NPW		

Analytical Method			Prep	Analysis	Analyst
Analyte	Result	Units	Date	Date & Time	Initials
(1) EPA 110.2, Color					
Apparent Color	550	Units		9/29/04	JN
(1) EPA 200.7 Total Hardness as CaCO3					
Hardness, Total	37	mg/l		10/5/04	TER
(1) EPA 245.1 Total Mercury					
Mercury	<0.0002	mg/l		10/13/04	TER
(1) EPA 335.2 Total Cyanide					
Cyanide, Total	<0.01	mg/l	10/6/04	10/6/04	JN
(1) EPA 350.1 Ammonia					
Ammonia as N	3.6	mg/l		10/11/04	DRB
(1) EPA 351.2 TKN as N					
Total Kjeldahl Nitrogen	6.4	mg/l	10/8/04	10/11/04	DRB
(1) EPA 405.1 BOD-5					
Biochemical Oxygen Demand, 5 Day	<4	mg/l		9/29/04 15:00	MM
(1) EPA 420.1 Recoverable Phenolics ML					
Phenolics, Total Recoverable	0.0079	mg/l	10/11/04	10/12/04	JN
(1) EPA 6010 Total Metals					
Boron	0.28	mg/l		10/5/04	TER
Potassium	17	mg/l		10/5/04	TER
Iron	4.3	mg/l		10/5/04	TER
Manganese	0.25	mg/l		10/5/04	TER
Magnesium	3.3	mg/l		10/5/04	TER
Lead	<0.01	mg/l		10/5/04	TER
Cadmium	<0.01	mg/l		10/5/04	TER
Aluminum	1.4	mg/l		10/5/04	TER
Calcium	9.3	mg/l		10/5/04	TER
Antimony	<0.01	mg/l		10/5/04	TER
Arsenic	<0.01	mg/l		10/5/04	TER
Beryllium	<0.01	mg/l		10/5/04	TER
Barium	<0.2	mg/l		10/5/04	TER
Sodium	8.2	mg/l		10/5/04	TER
Chromium	<0.01	mg/l		10/5/04	TER
Copper	<0.01	mg/l		10/5/04	TER
Nickel	<0.01	mg/l		10/5/04	TER
Selenium	<0.01	mg/l		10/5/04	TER
Silver	<0.01	mg/l		10/5/04	TER
Thallium	<0.01	mg/l		10/5/04	TER
Zinc	0.019	mg/l		10/5/04	TER
Cobalt	<0.01	mg/l		10/5/04	TER
Vanadium	<0.01	mg/l		10/5/04	TER
(1) EPA 8260B TCL Volatiles (Modified List)					
Acetone	<10	ug/l		10/8/04	LEF
Acrylonitrile	<5	ug/l		10/8/04	LEF
Benzene	<1	ug/l		10/8/04	LEF

- - LABORATORY ANALYSIS REPORT - -

Delaware Engineering Albany, NY

Sample ID:	MW-4S	LSL Sample ID:	0417149-007
Location:			
Sampled:	09/28/04 15:15	Sampled By:	EF
Sample Matrix:	NPW		

Analytical Method			Prep Date	Analysis Date & Time	Analyst Initials
Analyte	Result	Units			
(1) EPA 8260B TCL Volatiles (Modified List)					
Bromochloromethane	<1	ug/l		10/8/04	LEF
Bromodichloromethane	<1	ug/l		10/8/04	LEF
Bromoform	<1	ug/l		10/8/04	LEF
Bromomethane	<1	ug/l		10/8/04	LEF
2-Butanone (MEK)	<10	ug/l		10/8/04	LEF
Carbon disulfide	<1	ug/l		10/8/04	LEF
Carbon tetrachloride	<1	ug/l		10/8/04	LEF
Chlorobenzene	<1	ug/l		10/8/04	LEF
Chloroethane	<1	ug/l		10/8/04	LEF
Chloromethane	<1	ug/l		10/8/04	LEF
Chloroform	<1	ug/l		10/8/04	LEF
Dibromochloromethane	<1	ug/l		10/8/04	LEF
1,2-Dibromo-3-chloropropane	<1	ug/l		10/8/04	LEF
1,2-Dibromoethane(EDB)	<1	ug/l		10/8/04	LEF
Dibromomethane	<1	ug/l		10/8/04	LEF
1,2-Dichlorobenzene	<1	ug/l		10/8/04	LEF
1,4-Dichlorobenzene	<1	ug/l		10/8/04	LEF
trans-1,4-Dichloro-2-butene	<5	ug/l		10/8/04	LEF
1,1-Dichloroethane	<1	ug/l		10/8/04	LEF
1,2-Dichloroethane	<1	ug/l		10/8/04	LEF
1,1-Dichloroethene	<1	ug/l		10/8/04	LEF
cis-1,2-Dichloroethene	<1	ug/l		10/8/04	LEF
trans-1,2-Dichloroethene	<1	ug/l		10/8/04	LEF
1,2-Dichloropropane	<1	ug/l		10/8/04	LEF
cis-1,3-Dichloropropene	<1	ug/l		10/8/04	LEF
trans-1,3-Dichloropropene	<1	ug/l		10/8/04	LEF
Ethyl benzene	<1	ug/l		10/8/04	LEF
2-Hexanone	<10	ug/l		10/8/04	LEF
Iodomethane (Methyl iodide)	<5	ug/l		10/8/04	LEF
Methylene chloride	<1	ug/l		10/8/04	LEF
4-Methyl-2-pentanone (MIBK)	<10	ug/l		10/8/04	LEF
Styrene	<1	ug/l		10/8/04	LEF
1,1,1,2-Tetrachloroethane	<1	ug/l		10/8/04	LEF
1,1,2,2-Tetrachloroethane	<1	ug/l		10/8/04	LEF
Tetrachloroethene	<1	ug/l		10/8/04	LEF
Toluene	<1	ug/l		10/8/04	LEF
1,1,1-Trichloroethane	<1	ug/l		10/8/04	LEF
1,1,2-Trichloroethane	<1	ug/l		10/8/04	LEF
Trichloroethene	<1	ug/l		10/8/04	LEF
Trichlorofluoromethane (Freon 11)	<1	ug/l		10/8/04	LEF
1,2,3-Trichloropropane	<1	ug/l		10/8/04	LEF
Vinyl acetate	<5	ug/l		10/8/04	LEF
Vinyl chloride	<1	ug/l		10/8/04	LEF
Xylenes (Total)	<1	ug/l		10/8/04	LEF
Surrogate (1,2-DCA-d4)	99	%R		10/8/04	LEF
Surrogate (Tol-d8)	97	%R		10/8/04	LEF
Surrogate (4-BFB)	102	%R		10/8/04	LEF

-- LABORATORY ANALYSIS REPORT --

Delaware Engineering Albany, NY

Sample ID: MW-4S

LSL Sample ID: 0417149-007

Location:

Sampled: 09/28/04 15:15

Sampled By: EF

Sample Matrix: NPW

Analytical Method		Prep		Analysis		Analyst
Analyte	Result	Units	Date	Date & Time	Initials	
(1) EPA Method 300.0 A						
Bromide	<0.1	mg/l		9/29/04		RAF
Chloride	7.4	mg/l		9/29/04		RAF
Nitrate as N	<0.1	mg/l		9/29/04 22:14		RAF
Sulfate	20	mg/l		9/29/04		RAF
(1) HACH 8000 COD						
Chemical Oxygen Demand	120	mg/l		10/1/04		JN
(5) SM 18 2320B, Alkalinity as CaCO3						
Alkalinity	60	mg/l		10/12/04		DSW
(1) SM 18 3500Cr-D Hexavalent Chromium						
Chromium, Hexavalent	<0.01	mg/l		9/29/04		JN
(1) SM 19 5310C TOC						
Total Organic Carbon	40	mg/l	10/5/04	10/5/04		DWK/K BB
(1) SM18-2540C Total Dissolved Solids						
Total Dissolved Solids @ 180 C	190	mg/l		10/4/04		MM

-- LABORATORY ANALYSIS REPORT --

Delaware Engineering Albany, NY

Sample ID: MW-10 LSL Sample ID: 0417149-008

Location:

Sampled: 09/28/04 15:40 Sampled By: EF

Sample Matrix: NPW

Analytical Method		Result	Units	Prep Date	Analysis		Analyst Initials
Analyte					Date & Time		
(1)	EPA 110.2, Color						
	Apparent Color	950	Units		9/29/04		JN
(1)	EPA 200.7 Total Hardness as CaCO3						
	Hardness, Total	480	mg/l		10/5/04		TER
(1)	EPA 245.1 Total Mercury						
	Mercury	<0.0002	mg/l		10/13/04		TER
(1)	EPA 335.2 Total Cyanide						
	Cyanide, Total	<0.01	mg/l	10/6/04	10/6/04		JN
(1)	EPA 350.1 Ammonia						
	Ammonia as N	160	mg/l		10/11/04		DRB
(1)	EPA 351.2 TKN as N						
	Total Kjeldahl Nitrogen	260	mg/l	10/8/04	10/11/04		DRB
(1)	EPA 405.1 BOD-5						
	Biochemical Oxygen Demand, 5 Day	31	mg/l		9/29/04 15:00		MM
(1)	EPA 420.1 Recoverable Phenolics ML						
	Phenolics, Total Recoverable	0.020	mg/l	10/11/04	10/12/04		JN
(1)	EPA 6010 Total Metals						
	Boron	1.7	mg/l		10/5/04		TER
	Potassium	320	mg/l		10/5/04		TER
	Iron	49	mg/l		10/5/04		TER
	Manganese	1.6	mg/l		10/5/04		TER
	Magnesium	53	mg/l		10/5/04		TER
	Lead	<0.01	mg/l		10/5/04		TER
	Cadmium	<0.01	mg/l		10/5/04		TER
	Aluminum	0.28	mg/l		10/5/04		TER
	Calcium	110	mg/l		10/5/04		TER
	Antimony	0.012	mg/l		10/5/04		TER
	Arsenic	0.022	mg/l		10/5/04		TER
	Beryllium	<0.01	mg/l		10/5/04		TER
	Barium	0.25	mg/l		10/5/04		TER
	Sodium	230	mg/l		10/5/04		TER
	Chromium	<0.01	mg/l		10/5/04		TER
	Copper	<0.01	mg/l		10/5/04		TER
	Nickel	0.024	mg/l		10/5/04		TER
	Selenium	<0.01	mg/l		10/5/04		TER
	Silver	<0.01	mg/l		10/5/04		TER
	Thallium	<0.01	mg/l		10/5/04		TER
	Zinc	0.099	mg/l		10/5/04		TER
	Cobalt	<0.01	mg/l		10/5/04		TER
	Vanadium	0.013	mg/l		10/5/04		TER
(1)	EPA 8260B TCL Volatiles (Modified List)						
	Acetone	<10	ug/l		10/8/04		LEF
	Acrylonitrile	<5	ug/l		10/8/04		LEF
	Benzene	5.0	ug/l		10/8/04		LEF

- - LABORATORY ANALYSIS REPORT - -

Delaware Engineering Albany, NY

Sample ID: MW-10 LSL Sample ID: 0417149-008

Location:

Sampled: 09/28/04 15:40 Sampled By: EF

Sample Matrix: NPW

Analytical Method			Prep Date	Analysis Date & Time	Analyst Initials
Analyte	Result	Units			
(1) EPA 8260B TCL Volatiles (Modified List)					
Bromochloromethane	<1	ug/l		10/8/04	LEF
Bromodichloromethane	<1	ug/l		10/8/04	LEF
Bromoform	<1	ug/l		10/8/04	LEF
Bromomethane	<1	ug/l		10/8/04	LEF
2-Butanone (MEK)	<10	ug/l		10/8/04	LEF
Carbon disulfide	<1	ug/l		10/8/04	LEF
Carbon tetrachloride	<1	ug/l		10/8/04	LEF
Chlorobenzene	4.1	ug/l		10/8/04	LEF
Chloroethane	22	ug/l		10/8/04	LEF
Chloromethane	<1	ug/l		10/8/04	LEF
Chloroform	<1	ug/l		10/8/04	LEF
Dibromochloromethane	<1	ug/l		10/8/04	LEF
1,2-Dibromo-3-chloropropane	<1	ug/l		10/8/04	LEF
1,2-Dibromoethane(EDB)	<1	ug/l		10/8/04	LEF
Dibromomethane	<1	ug/l		10/8/04	LEF
1,2-Dichlorobenzene	<1	ug/l		10/8/04	LEF
1,4-Dichlorobenzene	3.7	ug/l		10/8/04	LEF
trans-1,4-Dichloro-2-butene	<5	ug/l		10/8/04	LEF
1,1-Dichloroethane	<1	ug/l		10/8/04	LEF
1,2-Dichloroethane	<1	ug/l		10/8/04	LEF
1,1-Dichloroethene	<1	ug/l		10/8/04	LEF
cis-1,2-Dichloroethene	<1	ug/l		10/8/04	LEF
trans-1,2-Dichloroethene	<1	ug/l		10/8/04	LEF
1,2-Dichloropropane	<1	ug/l		10/8/04	LEF
cis-1,3-Dichloropropene	<1	ug/l		10/8/04	LEF
trans-1,3-Dichloropropene	<1	ug/l		10/8/04	LEF
Ethyl benzene	<1	ug/l		10/8/04	LEF
2-Hexanone	<10	ug/l		10/8/04	LEF
Iodomethane (Methyl iodide)	<5	ug/l		10/8/04	LEF
Methylene chloride	<1	ug/l		10/8/04	LEF
4-Methyl-2-pentanone (MIBK)	<10	ug/l		10/8/04	LEF
Styrene	<1	ug/l		10/8/04	LEF
1,1,1,2-Tetrachloroethane	<1	ug/l		10/8/04	LEF
1,1,2,2-Tetrachloroethane	<1	ug/l		10/8/04	LEF
Tetrachloroethene	<1	ug/l		10/8/04	LEF
Toluene	<1	ug/l		10/8/04	LEF
1,1,1-Trichloroethane	<1	ug/l		10/8/04	LEF
1,1,2-Trichloroethane	<1	ug/l		10/8/04	LEF
Trichloroethene	<1	ug/l		10/8/04	LEF
Trichlorofluoromethane (Freon 11)	<1	ug/l		10/8/04	LEF
1,2,3-Trichloropropane	<1	ug/l		10/8/04	LEF
Vinyl acetate	<5	ug/l		10/8/04	LEF
Vinyl chloride	<1	ug/l		10/8/04	LEF
Xylenes (Total)	63	ug/l		10/8/04	LEF
Surrogate (1,2-DCA-d4)	97	%R		10/8/04	LEF
Surrogate (Tol-d8)	96	%R		10/8/04	LEF
Surrogate (4-BFB)	103	%R		10/8/04	LEF

-- LABORATORY ANALYSIS REPORT --

Delaware Engineering Albany, NY

Sample ID: MW-10 LSL Sample ID: 0417149-008

Location:

Sampled: 09/28/04 15:40 Sampled By: EF

Sample Matrix: NPW

Analytical Method	Result	Units	Prep Date	Analysis Date & Time	Analyst Initials
Analyte					
(1) EPA 8260B TCL Volatiles (Modified List)					
This sample was also found to contain approximately 290 ug/l of Isopropylbenzene.					
(1) EPA Method 300.0 A					
Bromide	2.5	mg/l		9/29/04	RAF
Chloride	280	mg/l		10/1/04	RAF
Nitrate as N	0.20	mg/l		9/29/04 22:32	RAF
Sulfate	2.1	mg/l		9/29/04	RAF
(1) HACH 8000 COD					
Chemical Oxygen Demand	290	mg/l		10/1/04	JN
(5) SM 18 2320B, Alkalinity as CaCO3					
Alkalinity	1900	mg/l		10/12/04	DSW
(1) SM 18 3500Cr-D Hexavalent Chromium					
Chromium, Hexavalent	<0.01	mg/l		9/29/04	JN
(1) SM 19 5310C TOC					
Total Organic Carbon	75	mg/l	10/5/04	10/5/04	DWK/K BB
(1) SM18-2540C Total Dissolved Solids					
Total Dissolved Solids @ 180 C	1700	mg/l		10/4/04	MM

- - LABORATORY ANALYSIS REPORT - -

Delaware Engineering Albany, NY

Sample ID: MW-5S LSL Sample ID: 0417149-009

Location:

Sampled: 09/28/04 16:20 Sampled By: EF

Sample Matrix: NPW

Analytical Method	Result	Units	Prep Date	Analysis Date & Time	Analyst Initials
Analyte					
(1) EPA 110.2, Color					
Apparent Color	450	Units		9/29/04	JN
(1) EPA 200.7 Total Hardness as CaCO3					
Hardness, Total	52	mg/l		10/5/04	TER
(1) EPA 245.1 Total Mercury					
Mercury	<0.0002	mg/l		10/13/04	TER
(1) EPA 335.2 Total Cyanide					
Cyanide, Total	<0.01	mg/l	10/6/04	10/6/04	JN
(1) EPA 350.1 Ammonia					
Ammonia as N	<0.03	mg/l		10/11/04	DRB
(1) EPA 351.2 TKN as N					
Total Kjeldahl Nitrogen	0.20	mg/l	10/8/04	10/11/04	DRB
(1) EPA 405.1 BOD-5					
Biochemical Oxygen Demand, 5 Day	<4	mg/l		9/29/04 15:00	MM
(1) EPA 420.1 Recoverable Phenolics ML					
Phenolics, Total Recoverable	0.0039	mg/l	10/11/04	10/12/04	JN
(1) EPA 6010 Total Metals					
Boron	0.014	mg/l		10/5/04	TER
Potassium	2.4	mg/l		10/5/04	TER
<i>The result of the calibration check sample associated with this analysis was greater than the established control limit. Therefore, the analytical result reported above may be biased high.</i>					
Iron	4.7	mg/l		10/5/04	TER
Manganese	0.34	mg/l		10/5/04	TER
Magnesium	2.9	mg/l		10/5/04	TER
Lead	<0.01	mg/l		10/5/04	TER
Cadmium	<0.01	mg/l		10/5/04	TER
Aluminum	0.44	mg/l		10/5/04	TER
Calcium	16	mg/l		10/5/04	TER
Antimony	<0.01	mg/l		10/5/04	TER
Arsenic	0.013	mg/l		10/5/04	TER
Beryllium	<0.01	mg/l		10/5/04	TER
Barium	<0.2	mg/l		10/5/04	TER
Sodium	<1	mg/l		10/5/04	TER
Chromium	<0.01	mg/l		10/5/04	TER
Copper	<0.01	mg/l		10/5/04	TER
Nickel	<0.01	mg/l		10/5/04	TER
Selenium	<0.01	mg/l		10/5/04	TER
Silver	<0.01	mg/l		10/5/04	TER
Thallium	<0.01	mg/l		10/5/04	TER
Zinc	0.017	mg/l		10/5/04	TER
Cobalt	<0.01	mg/l		10/5/04	TER
Vanadium	<0.01	mg/l		10/5/04	TER
(1) EPA 8260B TCL Volatiles (Modified List)					
Acetone	<10	ug/l		10/8/04	LEF

- - LABORATORY ANALYSIS REPORT - -

Delaware Engineering Albany, NY

Sample ID:	MW-5S	LSL Sample ID:	0417149-009
Location:			
Sampled:	09/28/04 16:20	Sampled By:	EF
Sample Matrix:	NPW		

Analytical Method			Prep Date	Analysis Date & Time	Analyst Initials
Analyte	Result	Units			
(1) EPA 8260B TCL Volatiles (Modified List)					
Acrylonitrile	<5	ug/l		10/8/04	LEF
Benzene	<1	ug/l		10/8/04	LEF
Bromochloromethane	<1	ug/l		10/8/04	LEF
Bromodichloromethane	<1	ug/l		10/8/04	LEF
Bromoform	<1	ug/l		10/8/04	LEF
Bromomethane	<1	ug/l		10/8/04	LEF
2-Butanone (MEK)	<10	ug/l		10/8/04	LEF
Carbon disulfide	<1	ug/l		10/8/04	LEF
Carbon tetrachloride	<1	ug/l		10/8/04	LEF
Chlorobenzene	<1	ug/l		10/8/04	LEF
Chloroethane	<1	ug/l		10/8/04	LEF
Chloromethane	<1	ug/l		10/8/04	LEF
Chloroform	<1	ug/l		10/8/04	LEF
Dibromochloromethane	<1	ug/l		10/8/04	LEF
1,2-Dibromo-3-chloropropane	<1	ug/l		10/8/04	LEF
1,2-Dibromoethane(EDB)	<1	ug/l		10/8/04	LEF
Dibromomethane	<1	ug/l		10/8/04	LEF
1,2-Dichlorobenzene	<1	ug/l		10/8/04	LEF
1,4-Dichlorobenzene	<1	ug/l		10/8/04	LEF
trans-1,4-Dichloro-2-butene	<5	ug/l		10/8/04	LEF
1,1-Dichloroethane	<1	ug/l		10/8/04	LEF
1,2-Dichloroethane	<1	ug/l		10/8/04	LEF
1,1-Dichloroethene	<1	ug/l		10/8/04	LEF
cis-1,2-Dichloroethene	<1	ug/l		10/8/04	LEF
trans-1,2-Dichloroethene	<1	ug/l		10/8/04	LEF
1,2-Dichloropropane	<1	ug/l		10/8/04	LEF
cis-1,3-Dichloropropene	<1	ug/l		10/8/04	LEF
trans-1,3-Dichloropropene	<1	ug/l		10/8/04	LEF
Ethyl benzene	<1	ug/l		10/8/04	LEF
2-Hexanone	<10	ug/l		10/8/04	LEF
Iodomethane (Methyl iodide)	<5	ug/l		10/8/04	LEF
Methylene chloride	<1	ug/l		10/8/04	LEF
4-Methyl-2-pentanone (MIBK)	<10	ug/l		10/8/04	LEF
Styrene	<1	ug/l		10/8/04	LEF
1,1,1,2-Tetrachloroethane	<1	ug/l		10/8/04	LEF
1,1,2,2-Tetrachloroethane	<1	ug/l		10/8/04	LEF
Tetrachloroethene	<1	ug/l		10/8/04	LEF
Toluene	<1	ug/l		10/8/04	LEF
1,1,1-Trichloroethane	<1	ug/l		10/8/04	LEF
1,1,2-Trichloroethane	<1	ug/l		10/8/04	LEF
Trichloroethene	<1	ug/l		10/8/04	LEF
Trichlorofluoromethane (Freon 11)	<1	ug/l		10/8/04	LEF
1,2,3-Trichloropropane	<1	ug/l		10/8/04	LEF
Vinyl acetate	<5	ug/l		10/8/04	LEF
Vinyl chloride	<1	ug/l		10/8/04	LEF
Xylenes (Total)	<1	ug/l		10/8/04	LEF
Surrogate (1,2-DCA-d4)	96	%R		10/8/04	LEF

- - LABORATORY ANALYSIS REPORT - -

Delaware Engineering Albany, NY

Sample ID: MW-5S

LSL Sample ID: 0417149-009

Location:

Sampled: 09/28/04 16:20

Sampled By: EF

Sample Matrix: NPW

Analytical Method	Result	Units	Prep Date	Analysis Date & Time	Analyst Initials
Analyte					
(1) EPA 8260B TCL Volatiles (Modified List)					
Surrogate (Tol-d8)	96	%R		10/8/04	LEF
Surrogate (4-BFB)	102	%R		10/8/04	LEF
(1) EPA Method 300.0 A					
Bromide	<0.1	mg/l		9/29/04	RAF
Chloride	2.6	mg/l		9/29/04	RAF
Nitrate as N	0.20	mg/l		9/29/04 22:50	RAF
Sulfate	9.6	mg/l		9/29/04	RAF
(1) HACH 8000 COD					
Chemical Oxygen Demand	15	mg/l		10/1/04	JN
(5) SM 18 2320B, Alkalinity as CaCO3					
Alkalinity	38	mg/l		10/12/04	DSW
(1) SM 18 3500Cr-D Hexavalent Chromium					
Chromium, Hexavalent	<0.01	mg/l		9/29/04	JN
(1) SM 19 5310C TOC					
Total Organic Carbon	3.6	mg/l	10/5/04	10/5/04	DWK/K BB
(1) SM18-2540C Total Dissolved Solids					
Total Dissolved Solids @ 180 C	66	mg/l		10/4/04	MM

AUGUST 2004

O & M INSPECTION CHECKLIST

**TANNERY ROAD LANDFILL, ROME, NY
INSPECTION CHECKLIST**

Page 1 of 2

Date & Time: 8/24/04

Inspector: SLP

Weather: 2-4 cloudy 59°

GENERAL INSPECTION - To Be Completed Monthly

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 OK

Pump #1 Hours: 046697

Pump #2 Hours: 039055

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 NONE

Totallizers (in meter pit)

RW-1 4296200

RW-3 2463800

RW-2 7885500

RW-4 2937700

Hour Meters

RW-1 134611

RW-3 343612

RW-2 131506

RW-4 193583

Landfill Cover Inspection

Leachate seeps Any new seeps NO

If YES, describe: _____

Western seep condition:

present - iron staining south of west gate

North seep condition:

Gas vents - general condition

OK _____

- Unusual odors, list vents/describe.

Flares ignited NO

OK _____

Perimeter fence OK

OK _____

Erosion/animal burrows NO

If YES, describe: _____

SAME AS IN JUL 2004

and - would make hole \$10.00 per vent 25

**TANNERY ROAD LANDFILL, ROME, NY
INSPECTION CHECKLIST**

Page 2 of 2

Date & Time: 8/24/04

Inspector: CCF

Monitoring Well Water Level Data

<u>WELL No</u>	<u>Measure Pt Elev.</u>	<u>Depth to Water (ft)</u>	<u>Groundwater Elevation (ft)</u>	<u>Well Condition</u>
MW - 1S	449.59	<u>5.80</u>		
MW - 2S	459.44	<u>7.57</u>		
MW - 3S	456.4	<u>3.75</u>		
MW - 4S	456.19	<u>4.14</u>		
MW - 5S	457.15	<u>4.81</u>		
MW - 7S	452.25	<u>8.96</u>		
MW - 9S	456.38	<u>3.93</u>		
MW - 10	486.3	<u>35.33</u>		
MW - 11	502.4	<u>52.31</u>		
MW - 12	483.11	<u>32.98</u>		
PZ - 1	454.37	<u>7.37</u>		

NOTES:

MW-7A - 9.26
MW-10 6.33
MW-2A 7.57
MW-4D 4.87
MW-5D 4.86

TANNERY ROAD LANDFILL, ROME, NY
INSPECTION CHECKLIST

Page 1 of 2

Date: 8/24/04
Weather: Sunny 70°

Inspector: EGF

ANNUAL GAS VENT INSPECTION (To be completed each Fall)

Gas Vent Number	H ₂ S (ppm)	Detectable Odors		General Vent Condition	
		Yes	No	90 LEL	Notes/Comments
1	0	X		14	
2	0	X		12	
3	1	X		over limit	
4	0	X		21	
5	0	X		2	
6	0			2	slight odors
7	Flare			lite	
8	Flare				
9	0			9	
10	Flare			lite	
11	Flare			off	
12	Flare				
13	Flare				
14	0	X		14	
15	Flare			off	
16					
17	0	X		LEL 24	
18	0	X		LE 21	
19					
20	0	X		40	
21	0	X		>100	
22	0	X		>100	
23	0	X		>100	
24	0	X		>100	
25	0	X		>100	

TANNERY ROAD LANDFILL, ROME, NY
INSPECTION CHECKLIST

Page 2 of 2

Date: _____ Inspector: _____
Weather: _____

ANNUAL GAS VENT INSPECTION (To be completed each Fall)

Gas Vent Number	H ₂ S (ppm)	Detectable Odors		LEL %	General Vent Condition Notes/Comments
		Yes	No		
26	0		X	39	
27	0		X	27	
28	0	X		>100	
29	0	X		>100	
30	0	X		>100	
31	0	X		>100	
32	0	X		56	
33	4	X		30	
34	0	X		39	
35	0	X		>100	
36	0	X		>100	
37	0	X		>100	
38	0	X		>100	
39	2	X		>100	
40	0	X		33	
41	0	X		92	
42	0	X		High	
43	0	X		76	
44	0	X		44	
45	0	X		90	
46	0		X	29	

SEPTEMBER 2004

O & M INSPECTION CHECKLIST

TANNERY ROAD LANDFILL, ROME, NY
INSPECTION CHECKLIST

Page 1 of 2

Date & Time: 9/28/07

Inspector: EEF

Weather: Cloudy 60°F

GENERAL INSPECTION - To Be Completed Monthly

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 OK

Pump #1 Hours: 04773 07773

Pump #2 Hours: 039315

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

NONE

Totallizers (in meter pit)

RW-1 4439900

RW-3 2495100

RW-2 7973900

RW-4 3019900

Hour Meters

RW-1 136181

RW-3 352008

RW-2 133158

RW-4 201998

Landfill Cover Inspection

Leachate seeps Any new seeps NO

If YES, describe: _____

Western seep condition: _____

North seep condition: _____

Gas vents - general condition

OK OK

- Unusual odors, list vents/describe.

sulfide odor eastern area landfill

Flares ignited 2 of 7

OK 2 of 7 were ignited

Perimeter fence OK

OK OK

Erosion/animal burrows NO

If YES, describe: _____

**TANNERY ROAD LANDFILL, ROME, NY
INSPECTION CHECKLIST**

Page 2 of 2

Date & Time: 9/28/04 Inspector: ELF

Monitoring Well Water Level Data

<u>WELL No</u>	<u>Measure Pt Elev.</u>	<u>Depth to Water (ft)</u>	<u>Groundwater Elevation (ft)</u>	<u>Well Condition</u>
MW - 1S	449.59	<u>6.01</u>		
MW - 2S	459.44	<u>8.07</u>		
MW - 3S	456.4	<u>4.10</u>		
MW - 4S	456.19	<u>4.04</u>		
MW - 5S	457.15	<u>5.05</u>		
MW - 7S	452.25	<u>8.71</u>		
MW - 9S	456.38	<u>4.11</u>		
MW - 10	486.3	<u>34.95</u>		
MW - 11	502.4	<u>52.03</u>		
MW - 12	483.11	<u>32.67</u>		
PZ - 1	454.37	<u>7.40</u>		

NOTES:

MW-10 6.53
MW-20 8.05
MW-40 4.69
MW-50 5.13
MW-70 9.09

OCTOBER 2004

O & M INSPECTION CHECKLIST

**TANNERY ROAD LANDFILL, ROME, NY
INSPECTION CHECKLIST**

Page 1 of 2

Date & Time: 10/21/07

Inspector: EGF
Weather: 45° Rain

GENERAL INSPECTION - To Be Completed Monthly

General Site Condition:

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

Pump Station at Tannery Road:

	Condition:	Notes Problems
Pump #1 Hours: <u>048147</u>	OK	<u>OK</u>
Pump #2 Hours: <u>039657</u>		

Panel/Wells on Landfill

Manholes along road - general condition, erosion, overflows	OK	<u>OK</u>
Pump Well No's 1, 2, 3 & 4 - Well head condition/integrity	OK	<u>OK</u>
Meter Pit - open lid, check heater, leaks, etc.	OK	<u>OK</u>
Panel note conditions and any alarms:	OK	<u>NONE</u>

Totallizers (in meter pit)

RW-1 <u>4470200</u>	RW-3 <u>2514300</u>
RW-2 <u>8036300</u>	RW-4 <u>3099000</u>
<u>Hour Meters</u>	
RW-1 <u>137440</u>	RW-3 <u>357502</u>
RW-2 <u>134399</u>	RW-4 <u>207477</u>

Landfill Cover Inspection

Leachate seeps Any new seeps	<u>NO</u>	If YES, describe:
Western seep condition:	<u>not flowing</u>	
North seep condition:	<u>not flowing</u>	
Gas vents - general condition	<u>OK</u>	
- Unusual odors, list vents/describe.	<u>NONE</u>	
Flares ignited	OK	<u>one ignited</u>
Perimeter fence	OK	<u>OK</u>
Erosion/animal burrows	<u>NO</u>	If YES, describe:

1. Berm 150' west of norther downshute not repaired
2. Berm just west of norther downshute repaired
3. Erosion outside landfill fence at southern downshute repaired with medium to heavy riprap
4. Erosion area southeast area of wetland patched with sand, however, sand is eroding into adjacent wetland area
5. 100' x 100' area of erosion at southern downshute

**TANNERY ROAD LANDFILL, ROME, NY
INSPECTION CHECKLIST**

Page 2 of 2

Date & Time: 10/21/04 Inspector: ECF

Monitoring Well Water Level Data

WELL No	Measure Pt Elev.	Depth to Water (ft)	Groundwater Elevation (ft)	Well Condition
MW - 1S	449.59	<u>6.04</u>		<u>OK</u>
MW - 2S	459.44	<u>8.71</u>		<u>OK</u>
MW - 3S	456.4	<u>3.73</u>		<u>OK</u>
MW - 4S	456.19	<u>4.07</u>		<u>OK</u>
MW - 5S	457.15	<u>5.20</u>		<u>OK</u>
MW - 7S	452.25	<u>9.48</u>		<u>OK</u>
MW - 9S	456.38	<u>3.92</u>		<u>OK</u>
MW - 10	486.3	<u>35.34</u>		<u>OK</u>
MW - 11	502.4	<u>52.35</u>		<u>OK</u>
MW - 12	483.11	<u>33.02</u>		<u>OK</u>
PZ - 1	454.37	<u>7.78</u>		<u>OK</u>

NOTES:

MW-7D 9.64
MW-1D 6.61
MW-2D 8.39
MW-4D 4.95
MW-5D 5.35

NOVEMBER 2004

O & M INSPECTION CHECKLIST

TANNERY ROAD LANDFILL, ROME, NY
INSPECTION CHECKLIST

Page 1 of 2

Date & Time: 11/30/04 Inspector: ELEF
Weather: Partly Sunny

GENERAL INSPECTION - To Be Completed Monthly

		Notes Problems
<u>General Site Condition:</u>		
Gates - condition and locks for inner & outer gates:	OK	<u>OK</u>
Access Road - surface/paving/snow	OK	<u>OK</u>
Overall appearance (trash/litter)	OK	<u>OK</u>
<u>Pump Station at Tannery Road:</u>		Condition: OK <u>OK</u>
Pump #1 Hours: <u>48863</u>	Pump #2 Hours: <u>40300</u>	

Panel/Wells on Landfill

Manholes along road - general condition, erosion, overflows	OK	<u>OK</u>
Pump Well No's 1, 2, 3 & 4 - Well head condition/integrity	OK	<u>OK</u>
Meter Pit - open lid, check heater, leaks, etc.	OK	<u>OK</u>
Panel note conditions and any alarms: OK		<u>none</u>
Totalizers (in meter pit)		
RW-1 <u>4533700</u>	RW-3 <u>2565000</u>	
RW-2 <u>8157100</u>	RW-4 <u>3182000</u>	
Hour Meters		
RW-1 <u>143493</u>	RW-3 <u>367108</u>	
RW-2 <u>134475</u>	RW-4 <u>217080</u>	

Landfill Cover Inspection

Leachate seeps Any new seeps <u>NO</u>	If YES, describe:	
Western seep condition:	<u>not flowing</u>	
North seep condition:	<u>not flowing</u>	
Gas vents - general condition	OK	<u>OK</u>
- Unusual odors, list vents/describe.		<u>none</u>
Flares ignited	OK	<u>none - ignited</u>
Perimeter fence	OK	<u>OK</u>
Erosion/animal burrows NO	If YES, describe:	
<u>see October checklist -</u>		

**TANNERY ROAD LANDFILL, ROME, NY
INSPECTION CHECKLIST**

Page 2 of 2

Date & Time: 11/30/04 Inspector: EGF

Monitoring Well Water Level Data

<u>WELL No</u>	<u>Measure Pt Elev.</u>	<u>Depth to Water (ft)</u>	<u>Groundwater Elevation (ft)</u>	<u>Well Condition</u>
MW - 1S	449.59	<u>4.29</u>		<u>OK</u>
MW - 2S	459.44	<u>6.49</u>		<u>OK</u>
MW - 3S	456.4	<u>3.56</u>		<u>OK</u>
MW - 4S	456.19	<u>3.83</u>		<u>OK</u>
MW - 5S	457.15	<u>4.29</u>		<u>OK</u>
MW - 7S	452.25	<u>8.30</u>		<u>OK</u>
MW - 9S	456.38	<u>3.70</u>		<u>OK</u>
MW - 10	486.3	<u>35.29</u>		<u>OK</u>
MW - 11	502.4	<u>52.36</u>		<u>OK</u>
MW - 12	483.11	<u>33.05</u>		<u>OK</u>
PZ - 1	454.37	<u>6.36</u>		<u>OK</u>

NOTES:

MW-7D 8.99
MW-1D 5.56
MW-2D 6.72
MW-4D 4.52
MW-5D 4.31

HISTORICAL

GROUND WATER DATA TABLES

City of Rome
Tannery Road Landfill
Monitoring Well MW-1S
Ground Water Analytical Data

Date	03/01/99	06/01/99	09/01/99	12/01/99	03/01/00	06/01/00	09/01/00	12/01/00	03/01/01	06/01/01	09/01/01	12/01/01	03/28/02	06/17/02	09/24/02	12/18/02	03/12/03	06/25/03	09/17/03	12/16/2003	03/23/04	06/22/04	09/28/04	NYSDEC Ground Water Standard	
Field Parameter																									
Conductivity (µmhos/cm)	31	103	398	89	39	39	39	31	23	23	34	62	37	75	67	190	58	376	21	180	20	24	35	44	NS
pH (s.u.)	8.64	5.97	6.37	7	5.85	7.88	6.45	5.27	6.18	6.18	4.95	5.89	6.23	7.7	6.5	7.42	7.5	7.5	4.9	6.24	6.5	5.22	5.11	5.3	6.5 - 8.5
Temperature (deg C)	3.2	13.3	15.2	5.9	4.2	13	15.3	6.7	3.9	3.9	14.7	14.8	6.7	6	12.5	13.7	5.3	7.2	13	13.6	6	4.2	11.5	15	NS
Turbidity (NTU)	785	925	560	140	222	161	527	195	316	316	186	88	90	145	68	126	8	65	556	52	50	113	73	29	5
Part 360 Leachate Indicator Parameters																									
Ammonia-Nitrogen (mg/L)	<0.5	<0.5	2	<0.3	<0.3	<0.030	<0.030	<0.030	0.073	<0.030	0.089	<0.030	<0.030	<0.030	<0.030	1.1	<0.030	0.14	<0.03	0.38	<0.03	<0.030	0.059	0.14	2
Biochemical Oxygen Demand (BOD5) (mg/L)	8	<4.0	<2.0	2	<2.0	30	<2.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	12	<4.0	8.6	<4	<4.0	<4	<4.0	<4	<4	NS
Bromide (mg/L)	<0.2	<2.0	<2.0	<2.0	<2.0	2.5	<0.010	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	0.12	<0.100	<0.1	<0.1	<0.1	<0.1	<0.10	<0.1	<0.1	2
Chemical Oxygen Demand (mg/L)	52	100	25	14	12	6.7	96	19	36	36	26	34	14	24	45	66	9.9	<1.0	33	25	35	18	27	7.9	NS
Chloride (mg/L)	<1.0	31	28	3.7	2.3	450	3.3	2.5	2.9	2.4	3.8	2.5	2.5	2.7	2.7	6.4	2.6	36	3.8	8.2	2.5	3.4	3.3	2.5	250
Color (Pt-Co)	46					30							50	20				8						180	15
Nitrate-Nitrogen (mg/L)	<0.2	<0.2	<0.2	0.4	0.3	0.18	0.1	<0.100	0.15	0.15	0.16	<0.100	<0.100	0.15	<0.100	0.13	0.14	<0.1	0.15	<0.1	<0.1	0.16	0.17	0.14	10
Sulfate (mg/L)	5	10	94	9.8	7.7	4.7	9.7	6.9	6.7	6.8	17	6.2	7	6	13	13	6.2	<1.0	7.9	15	6.9	7.4	8.2	7.1	250
Total Alkalinity (mg/L)	<10.0	37	84	7.8	9	1.9	15	1.2	1.4	2	12		1.9	<1.0	4	64	4	170	4	37	<1	<1,000	6	8	NS
Total Cyanide (mg/L)	<0.010						<0.010						<0.010	<0.010				<0.01						0.01	0.2
Total Dissolved Solids (mg/L)	140	140	260	39	30	1,900	26	<4.0	14	56	190	<4.0	170	26	120	120	42	280	30	120	34	32	20	52	500
Total Hardness (mg/L)	19	120	136	14	23	8	16	7.7	10	8.6	20	9.8	6.6	7.3	60	60	7.6	210	12	58	<7	7.8	3.7	5.4	NS
Total Kjeldahl Nitrogen (mg/L)	<0.5	2.4	1.3	<0.3	0.6	0.3	1.3	0.39	0.62	0.62	0.62	0.6	0.23	0.13	0.42	1.7	0.25	<0.1	0.27	0.58	0.34	0.53	0.69	0.28	NS
Total Organic Carbon (mg/L)	14	34	7	7.8	15.3	4.4	29	5.5	16	11	13	11.3	8.3	14	26	10	5.5	5.6	5.6	10	14	4.1	8.6	3	NS
Total Phenols (mg/L)	<0.005	<0.005	<0.001	0.004	0.001	<0.002	0.007	0.003	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	0.012	0.003	<0.002	0.0046	<0.002	<0.002	0.0034	<0.002	<0.002	<0.002	0.001
Part 360 Routine Metals																									
Boron (mg/L)	<0.100																								1
Cadmium (mg/L)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.005
Calcium (mg/L)	3.26	29.1	43.2	4.2	6.7	1.5	3.1	1.4	1.9	1.9	1.7	5.7	2.2	1	1.3	18	1.4	62	3.4	18	<1	1.5	1.5	2.2	NS
Iron (mg/L)	16.3	30.5	33.1	3.1	4.3	1.9	17	6.3	8.8	8.8	5.6	7.8	3.2	4.5	4.7	50	7.2	2	2.8	8.1	2.7	2.4	2.3	1.1	0.3*
Lead (mg/L)	0.012	0.029	0.01	<0.005	<0.005	<0.010	0.011	<0.010	<0.010	<0.010	<0.010	<0.010	<1.0	<1.0	<1.0	0.02	<0.010	<0.01	<0.01	0.012	<0.01	<0.010	<0.01	<0.01	0.025
Magnesium (mg/L)	2.7	11.2	6.8	0.94	1.5	<1.0	2	1	1.3	1	1	1.5	<1.0	<1.0	<1.0	3.9	<1.0	14	<1.0	3.3	<1	<1.0	<1	<1	35 (GV)
Manganese (mg/L)	0.257	0.759	1.2	0.17	0.12	0.04	0.23	0.075	0.11	0.093	0.19	0.19	0.07	0.11	0.069	0.74	0.045	0.23	0.06	0.45	0.031	0.049	0.1	0.061	0.3*
Potassium (mg/L)	1.99	5.39	2.9	0.7	3.3	<1.0	1.2	<1.0	1.1	<1.0	1.2	1.2	<1.0	<1.0	<1.0	3.1	<1.0	1.2	<1.0	2.7	<1	<1.0	<1	<1	NS
Sodium (mg/L)	1.2	12.2	9.9	1.8	8.8	1.6	1.2	<1.0	1.2	<1.0	7.5	1.2	1.2	2.8	<1.0	4.9	<1.0	12	1.7	12	<1	1.1	1.2	1.2	20
Part 360 Additional Baseline Metals																									
Aluminum (mg/L)	32					25							5	8.9					3					2.1	NS
Antimony (mg/L)	<0.015					0.012	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.003
Arsenic (mg/L)	0.018					<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	0.013	0.013	<0.01	<0.01	<0.01	<0.01	<0.01	0.025
Barium (mg/L)	0.431					<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	1
Beryllium (mg/L)	<0.003					<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.003 (GV)
Chromium (mg/L)	0.047					0.01							<0.010	<0.010	<0.010	<0.010	<0.010	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.05
Chromium, Hexavalent (mg/L)	<0.010					<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	NS
Cobalt (mg/L)	<0.020					<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.012	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.2
Copper (mg/L)	0.041					0.022							<0.010	<0.010	<0.010	<0.010	<0.010	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	0.0007	
Mercury (mg/L)	<0.0002					0.00053	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	0.1
Nickel (mg/L)	0.039					0.012	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.01
Selenium (mg/L)	<0.005					<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.											

City of Rome
Tannery Road Landfill
Monitoring Well MW- 1S
Ground Water Analytical Data

Date	03/01/99	06/01/99	09/01/99	12/01/99	03/01/00	06/01/00	09/01/00	12/01/00	03/01/01	06/01/01	09/01/01	12/01/01	03/28/02	06/17/02	09/24/02	12/18/02	03/12/03	06/25/03	09/17/03	12/16/2003	03/23/04	06/22/04	09/28/04	NYSDEC Ground Water Standard
1,3-Dichlorobenzene (µg/L)	<5.0						<5.0					<5.0	<5.0											3
1,4-Dichloro-2-butene (µg/L)	<10.0						<5.0					<10.0	<10.0											5
1,4-Dichlorobenzene (µg/L)	<5.0						<10.0					<10.0	<10.0					<5				<1		3
2-Butanone (MEK) (µg/L)	<10.0						<10.0					<10.0	<10.0				<10	<10				<10		50 (GV)
2-Hexanone (µg/L)	<10.0						<10.0					<10.0	<10.0				<10	<10				<10		50 (GV)
4-Methyl 2-pentanone (µg/L)	<10.0						<10.0					<20.0	<20.0				<10	<10				<10		NS
Acetone (µg/L)	<10.0						<20.0					<5.0	<5.0				11	<10				<10		50 (GV)
Acrylonitrile (µg/L)	<100						<5.0					<5.0	<5.0				<5	<20				<5		5
Benzene (µg/L)	<5.0						<5.0					<5.0	<5.0					<5				<1		1
Bromochloromethane (µg/L)	<5.0						<5.0					<5.0	<5.0				<5	<5				<1		5
Bromodichloromethane (µg/L)	<5.0						<5.0					<5.0	<5.0				<5	<5				<1		50 (GV)
Bromoform (µg/L)	<5.0						<5.0					<5.0	<5.0				<5	<5				<1		50 (GV)
Bromomethane (µg/L)	<5.0						<5.0					<5.0	<5.0				<5	<5				<1		5
Carbon disulfide (µg/L)	<5.0						<5.0					<5.0	<5.0				<5	<5				<1		60 (GV)
Carbon tetrachloride (µg/L)	<5.0						<5.0					<5.0	<5.0				<5	<5				<1		5
Chlorobenzene (µg/L)	<5.0						<5.0					<5.0	<5.0				<5	<5				<1		5
Chloroethane (µg/L)	<5.0						<5.0					<5.0	<5.0				<5	<5				<1		5
Chloroform (µg/L)	<5.0						<5.0					<5.0	<5.0				<5	<5				<1		5
Chloromethane (µg/L)	<5.0						<5.0					<5.0	<5.0				<5	<5				<1		7
cis-1,2-Dichloroethene (µg/L)	<5.0						<5.0					<5.0	<5.0				<5	<5				<1		5
cis-1,3-Dichloropropene (µg/L)	<5.0						<5.0					<5.0	<5.0				<5	<5				<1		0.4**
Dibromochloromethane (µg/L)	<5.0						<5.0					<5.0	<5.0				<5	<5				<1		50 (GV)
Dibromomethane (µg/L)	<5.0						<20.0					<20.0	<10.0				<5	<5				<1		5
Ethyl benzene (µg/L)	<5.0						<10.0					<10.0	<10.0				<5	<5				<1		5
Iodomethane (µg/L)	<5.0						<5.0					<5.0	<5.0				<5	<10				<10		5
Methylene Chloride (µg/L)	<5.0						<5.0					<5.0	<5.0				<10	<10				<10		5
Styrene (µg/L)							<5					<5	<5				<5	<5				<1		5
Tetrachloroethene (µg/L)	<5.0						<5.0					<5.0	<5.0				<5	<5				<1		5
Toluene (µg/L)	<5.0						<5.0					<5.0	<5.0				<5	<5				<1		5
trans-1,2-Dichloroethene (µg/L)	<5.0						<5.0					<5.0	<5.0				<5	<5				<1		5
trans-1,3-Dichloropropene (µg/L)	<5.0						<5.0					<5.0	<5.0				<5	<5				<1		5
trans-1,4-Dichloro-2-butene (µg/L)							<50.0					<50.0	<10.0				<5	<5				<1		0.4**
Trichloroethene (µg/L)	<5.0						<50					<50	<10				<5	<10				<10		5
Trichlorofluoromethane (µg/L)	<5.0						<5.0					<5.0	<5.0				<5	<5				<1		5
Vinyl Acetate (µg/L)	<50.0						<5.0					<5.0	<5.0				<5	<5				<1		5
Vinyl Chloride (µg/L)	<5.0						<20.0					<20.0	<20.0				<5	<20				<5		NS
Xylenes (Total) (µg/L)	<5.0						<5.0					<5.0	<5.0				<5	<5				<1		2
1,2-Dichloroethene - Total	<5.0						<5.0					<5.0	<5.0				<5	<5				<1		5

Notes

- 1) < indicates not detected at or above the listed value
- 2) NS indicates that no standard has been promulgated.
- 3) * indicates that the sum of these two analytes may not exceed 500 µg/L.
- 4) GV indicates that the value listed is a guidance value rather than a standard.
- 5) Values in bold exceeded the applicable NYSDDEC ground water standard/guidance value.
- 6) ** Indicates standard applies to the sum of the isomers

City of Rome
Tannery Road Landfill
MW-3S
Ground Water Analytical Data

Parameter	03/01/99	06/01/99	09/01/99	12/01/99	03/01/00	06/01/00	09/01/00	12/01/00	03/01/01	06/01/01	09/01/01	12/01/01	03/28/02	06/17/02	09/24/02	12/18/02	03/12/03	06/25/03	09/17/03	12/16/03	03/23/04	06/22/04	09/28/04	NYSDEC Ground Water Standards
	Field Parameters	Field Parameters	Field Parameters	Field Parameters	Field Parameters	Field Parameters	Field Parameters	Field Parameters	Field Parameters	Field Parameters	Field Parameters	Field Parameters	Field Parameters	Field Parameters	Field Parameters	Field Parameters	Field Parameters	Field Parameters	Field Parameters	Field Parameters	Field Parameters	Field Parameters	Field Parameters	
Conductivity (cmhss/cm)	4.440	3.980	3.690	3.270	3.800	3.650	3.370	3.390	3.130	2.870	2.150	2.680	2.390	1.600	1.250	1.490	Frozen	1.140	1.150	1.000	Frozen	815	841	NS
pH (s.u.)	6.58	6.82	6.74	6.36	6.65	6.92	6.63	6.59	6.42	6.3	6.68	6.71	6.46	6.83	8.2		Frozen	6.83	6.98	7.1	Frozen	6.6	6.57	6.5 - 8.5
Temperature (deg C)	6.4	141	15.6	7.1	5.5	11.3	15.1	6.4	5	14	12.5	7.6	6.2	11.1	15.2	6.6	Frozen	12.1	15	7	Frozen	11.7	14	NS
Turbidity (NTU)	88	482	357	167	77	78	132	49	35	31	56	42	32		14	0	Frozen	109	60	70	Frozen	11	86	5
Leachate Indicator Parameters																								
Ammonia-Nitrogen (mg/L)		75	89	84	120	120	160	130	130	110	95	130	120	82	53	78	Frozen	78	72	75	Frozen	53	56	2
Biochemical Oxygen Demand (BOD5) (mg/L)	18	35	28	28	34	16	31	30		24	16	12	11	<10	35	<10	Frozen	14	<4.0	17	Frozen	12	16	NS
Bromide (mg/L)	0.9	<2	<2	4	3.8	0.12	3	1.6	1.2	1.1	0.5	0.79	0.52	0.15	0.11	0.14	Frozen	<0.1	<0.1	<0.1	Frozen	<0.1	<0.1	2
Chemical Oxygen Demand (mg/L)	990	320	<1	310	420	430	550	410	350	180	410	230	220	150	110	110	Frozen	93	96	120	Frozen	83	84	NS
Chloride (mg/L)	560	430	430	320	350	13	370	400	220	210	110	150	130	42	24	25	Frozen	5.7	10	4.4	Frozen	4.1	3.3	250
Color (Pt-Co)		290					1,200				750		900				Frozen	500	<0.1	0.17	Frozen		750	15
Nitrate-Nitrogen (mg/L)	<0.2	<0.2	<0.2	<0.2	<0.2	0.28	<0.1	<0.1	<0.1	0.15	<0.1	<0.1	<0.1	<0.1	0.6	<0.1	Frozen	0.15			Frozen	0.18	0.15	10
Sulfate (mg/L)	<5	6	110	16	48	32	2.3	5.8	33	32	66	79	94	63	120	110	Frozen	94	49	52	Frozen	55	36	250
Total Alkalinity (mg/L)	1,800	1,500	550	600	1,400	1,300	1,100	1,100	1,200	1,200	930	860	840	660	480	550	Frozen	410	450	370	Frozen	360	340	NS
Total Cyanide		<0.01					<0.01				<0.01		<0.01				Frozen	<0.01	490	350	Frozen		<0.01	0.2
Total Dissolved Solids (mg/L)	2,600	2,200	2,280	1,710	1,930	250	2,100	1,600	1,500	1,500	1,100	1,200	1,100	680	610	580	Frozen	430			Frozen	370	350	500
Total Hardness (mg/L)	770	750	644	504	478	430	470	410	320	360	290	260	200	170	190	150	Frozen	120	190	100	Frozen	120	100	NS
Total Kjeldahl Nitrogen (mg/L)	85	85	99	89	120	170	160	130	150	130	100	120	140	76	61	32	Frozen	86	63	64	Frozen	63	50	NS
Total Organic Carbon (mg/L)	200	170	247	123	36	200	150	130	120	130	84	90	86	60	47	43	Frozen	22	35	43	Frozen	30	26	NS
Total Phenols (mg/L)	0.009	<0.005	0.006	0.008	0.005	0.0038	0.0052	0.0031	0.0025	0.0032	0.0022	0.0034	<0.002	0.011	0.0038	<0.002	Frozen	<0.002	<0.002	0.0053	Frozen	<0.002	<0.002	0.001
Part 360 Routine Metals																								
Boron (mg/L)		2.2				2.5	2.4			1.2	1.3	1.6	1.4	1.1	1		Frozen	<0.5	0.85	<0.5	Frozen		0.37	1
Calcium (mg/L)		0.0084	<0.005	<0.005	<0.005	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	Frozen	<0.01	<0.01	<0.01	Frozen	<0.01	<0.01	0.005
Calcium (mg/L)	216	212	171	134	123	110	120	110	87	99	82	73	52	49	56	46	Frozen	39	59	32	Frozen	37	29	NS
Iron (mg/L)	64.4	66.6	55.8	40.8	45.6	48	48	34	34	34	26	30	24	15	29	14	Frozen	12	14	29	Frozen	11	9.3	0.3*
Lead (mg/L)	<0.003	0.0123	<0.005	<0.005	<0.005	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	Frozen	<0.01	0.011	<0.01	Frozen	<0.01	<0.01	0.025
Magnesium (mg/L)	55.7	54.7	52.6	41	41.5	37	39	33	25	28	20	20	15	11	11	9.1	Frozen	6.9	10	5.3	Frozen	7.3	6.8	35 (GV)
Manganese (mg/L)	1.96	1.87	1.6	1.4	1.3	1.3	1.5	1.2	1.1	1.2	0.95	0.91	0.74	0.6	0.63	0.5	Frozen	0.43	0.61	0.36	Frozen	0.043	0.38	0.3*
Potassium (mg/L)	202	191	210	160	160	210	230	210	170	170	140	150	140	110	79	97	Frozen	93	94	79	Frozen	110	110	NS
Sodium (mg/L)	960	417	310	310	300	320	510	370	320	370	220	250	210	92	54	76	Frozen	16	27	10	Frozen	9.3	6.1	20
Part 360 Baseline Metals																								
Aluminum (mg/L)		4.04					1.8				1		0.91				Frozen	1.3			Frozen		0.44	NS
Antimony (mg/L)		<0.015					0.043				<0.01	<0.01	<0.01	<0.01			Frozen	<0.01	<0.01	<0.01	Frozen	<0.01	<0.01	0.003
Arsenic (mg/L)		<0.01					0.01				<0.01	<0.01	<0.01				Frozen	0.011			Frozen	0.012	0.025	0.025
Barium (mg/L)		1.25					1.3				0.61		0.5				Frozen	0.27			Frozen	<0.2	<0.2	1
Beryllium (mg/L)		<0.003					0.01				<0.01		<0.01				Frozen	<0.01	<0.01	<0.01	Frozen	<0.01	<0.01	0.003 (GV)
Chromium (mg/L)		0.0222					0.025				0.015		0.018				Frozen	0.011			Frozen	<0.01	<0.01	0.05
Chromium, Hexavalent (mg/L)		<0.01					<0.01				<0.01		<0.5				Frozen	<0.01	<0.01	<0.01	Frozen	<0.01	<0.01	0.05
Cobalt (mg/L)		<0.02					0.013				<0.01		<0.01				Frozen	<0.01	<0.01	<0.01	Frozen	<0.01	<0.01	NS
Copper (mg/L)		0.0163					<0.01				<0.01		<0.01				Frozen	<0.01	<0.01	<0.01	Frozen	<0.01	<0.01	0.2
Mercury (mg/L)		<0.0002					<0.0002				0.007		<0.0002				Frozen	<0.0002	<0.0002	<0.0002	Frozen	<0.0002	<0.0002	0.0007
Nickel (mg/L)		<0.03					0.033				0.019		0.027				Frozen	<0.01	<0.01	0.1	Frozen	0.011	0.011	0.1
Selenium (mg/L)		<0.005					<0.01				<0.01		<0.01				Frozen	<0.01	<0.01	0.01	Frozen	<0.01	<0.01	0.01
Silver (mg/L)		<0.01					<0.01				<0.01		<0.01				Frozen	<0.01	<0.01	0.05	Frozen	<0.01	<0.01	0.05
Thallium (mg/L)		0.0139					<0.01				<0.01		<0.01				Frozen	<0.01	<0.01	0.0005 (GV)	Frozen	<0.01	<0.01	0.0005 (GV)
Vanadium (mg/L)		0.0457					0.075				0.042		0.051				Frozen	0.027			Frozen	0.018	0.018	NS
Zinc (mg/L)		0.107					0.062				0.025		0.021				Frozen	0.091			Frozen	0.02	0.02	2
Volatile Organics																								
1,1,1,2-Tetrachloroethane (µg/L)							<5				<5		<5				Frozen	<5			Frozen	<1	<1	5
1,1,1-Trichloroethane (µg/L)		<5					<5				<5		<5				Frozen	<5			Frozen	<1	<1	5
1,1,2,2-Tetrachloroethane (µg/L)		<5					<5				<5		<5				Frozen	<5			Frozen	<1	<1	5
1,1,2-Trichloroethane (µg/L)		<5					<5				<5		<5				Frozen	<5			Frozen	<1	<1	1
1,1-Dichloroethane (µg/L)		<5					<5				<5		<5				Frozen	<5			Frozen	<1	<1	5
1,1-Dichloroethene (µg/L)		<5					<5				<5		<5				Frozen	<5			Frozen	<1	<1	5
1,2,3-Trichloropropane (µg/L)							<5				<5		<5				Frozen	<5			Frozen	<1	<1	0.04
1,2-Dibromo-3-chloropropane (µg/L)		<10					<5				<5		<5				Frozen	<5			Frozen	<1	<1	0.04
1,2-Dibromooethane (EDB) (µg/L)		<5					<5				<5		<5				Frozen	<5			Frozen	<1	<1	5
1,2-Dichlorobenzene (µg/L)		<5					<5				<5		<5				Frozen	<5			Frozen	<1	<1	3
1,2-Dichloroethane (µg/L)		<5					<5				<5		<5				Frozen	<5			Frozen	<1	<1	0.6

City of Rome
Tannery Road Landfill
MW-3S
Ground Water Analytical Data

Parameter	03/01/99	06/01/99	09/01/99	12/01/99	03/01/00	12/01/00	03/01/01	06/01/01	09/01/01	12/01/01	03/28/02	06/17/02	09/24/02	12/18/02	03/12/03	06/25/03	09/17/03	12/16/03	03/23/04	06/22/04	09/28/04	NYSDDEC
1,2-Dichloropropane (µg/L)		<5				<5				<5	<5				Frozen	<5					<1	1
1,3-Dichlorobenzene (µg/L)		<5																				3
1,4-Dichloro-2-butene (µg/L)		<10																				5
1,4-Dichlorobenzene (µg/L)		<5				<5				<5	<5				Frozen	<5					<1	3
2-Butanone (MEK) (µg/L)		<10				<10				<10	<10				Frozen	<10					<10	50 (GV)
2-Hexanone (µg/L)		<10				<10				<10	<10				Frozen	<10					<10	50 (GV)
4-Methyl 2-pentanone (µg/L)		<10				<10				<10	<10				Frozen	<10					<10	NS
Acetone (µg/L)	21					<20				<20	<20				Frozen	<20					<5	50 (GV)
Arylonitrile (µg/L)	<<100					<5				<5	<5				Frozen	<5					<1	5
Benzene (µg/L)		<5				<5				<5	<5				Frozen	<5					<1	1
Bromochloromethane (µg/L)		<5				<5				<5	<5				Frozen	<5					<1	5
Bromodichloromethane (µg/L)		<5				<5				<5	<5				Frozen	<5					<1	50 (GV)
Bromoform (µg/L)		<5				<5				<5	<5				Frozen	<5					<1	50 (GV)
Bromomethane (µg/L)		<5				<5				<5	<5				Frozen	<5					<1	5
Carbon disulfide (µg/L)	6					<5				<5	<5				Frozen	<5					<1	5
Carbon tetrachloride (µg/L)		<5				<5				<5	<5				Frozen	<5					<1	60 (GV)
Chlorobenzene (µg/L)		<5				<5				<5	<5				Frozen	<5					<1	5
Chloroethane (µg/L)		<5				<5				<5	<5				Frozen	<5					<1	5
Chloroform (µg/L)		<5				<5				<5	<5				Frozen	<5					<1	5
Chloromethane (µg/L)		<5				<5				<5	<5				Frozen	<5					<1	7
cis-1,2-Dichloroethene (µg/L)		<5				<5				<5	<5				Frozen	<5					<1	5
cis-1,3-Dichloropropene (µg/L)		<5				<5				<5	<5				Frozen	<5					<1	0.4**
Dibromochloromethane (µg/L)		<5				<5				<5	<5				Frozen	<5					<1	50 (GV)
Dibromomethane (µg/L)		<5				<5				<5	<5				Frozen	<5					<1	5
Ethyl benzene (µg/L)		<5				<5				<5	<5				Frozen	<5					<1	5
Iodomethane (µg/L)		<5				<20				<20	<10				Frozen	<10					<10	5
Methylene Chloride (µg/L)		<5				<10				<10	<10				Frozen	<10					<10	5
Styrene (µg/L)		<5				<5				<5	<5				Frozen	<5					<1	5
Tetrachloroethene (µg/L)		<5				<5				<5	<5				Frozen	<5					<1	5
Toluene (µg/L)		<5				<5				<5	<5				Frozen	<5					<1	5
trans-1,2-Dichloroethene (µg/L)		<5				<5				<5	<5				Frozen	<5					<1	5
trans-1,3-Dichloropropene (µg/L)		<5				<5				<5	<5				Frozen	<5					<1	5
trans-1,4-Dichloro-2-butene (µg/L)		<5				<5				<5	<5				Frozen	<5					<1	5
Trichloroethene (µg/L)		<5				<50				<50	<10				Frozen	<10					<10	0.4**
Trichlorofluoromethane (µg/L)		<5				<5				<5	<5				Frozen	<5					<1	5
Vinyl Acetate (µg/L)		<50				<5				<5	<5				Frozen	<5					<1	5
Vinyl Chloride (µg/L)		<5				<20				<20	<20				Frozen	<20					<5	NS
Xylenes (Total) (µg/L)		<5				<5				<5	<5				Frozen	<5					<1	2
						<5				<5	<5				Frozen	<5					<1	5

- Notes
- 1) < indicates not detected at or above the listed value
 - 2) NS indicates that no standard has been promulgated.
 - 3) * indicates that the sum of these two analytes may not exceed 500 µg/L
 - 4) GV indicates that the value listed is a guidance value rather than a standard.
 - 5) Values in bold exceeded the applicable NYSDDEC ground water standard/guidance value.
 - 6) ** Indicates standard applies to the sum of the isomers

City of Rome
Tannery Road Landfill
MW-4S

Ground Water Analytical Data

Parameter	3/1/99	6/1/99	9/1/99	12/1/99	3/1/00	6/1/01	9/1/01	12/1/01	3/28/02	6/17/02	9/24/02	12/18/02	3/12/03	6/25/03	9/17/03	12/16/03	3/23/04	6/22/04	9/28/04	NYSDEC Ground Water Standard
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Field Parameter

Conductivity (µmhos/cm)	672	1,590	2,010	444	338	334	429	374	204	247	555	177	125	161	807	163	137	123	685	224	NS
pH (s.u.)	7.05	6.43	6.23	7.11	6.18	6.36	6.14	6.04	5.81	5.7	6.07	6.07	5.96	6.05	8.3	6.8	5.7	5.96	6.14	5.75	6.5 - 8.5
Temperature (deg C)	5.7	15.8	15	7.1	6.3	11	14.3	6.8	5.3	15.6	12.7	7.7	5.9	11.5	13.5	6.8	5.5	14.4	15.3	14.8	NS
Turbidity (NTU)	137	77	87	86	40	79	58	33	29	24	19	18	17		91	0	25	147	116	46	5

Part 360 Leachate Indicator Parameters

Ammonia-Nitrogen (mg/L)	26	<0.5	90	15	14	15	24	18	7.4	9.8	32	3.1	1.7	3.5	39	2.3	2.6	1.7	35	4.2	3.6	2
Biochemical Oxygen Demand (BOD5) (mg/L)	62	6	34	24	23	<2.0	14	<20.0		12	25	<10.0	<10.0	<10.0	49	<10.0	6.6	4.7	15	<4	<4	NS
Bromide (mg/L)	<0.2	<0.2	<2.0	<2.0	<2.0	<0.1	<0.1	<0.1	<0.1	0.12	0.24	<0.1	<0.1	<0.1	0.5	<0.1	<0.1	<0.1	<0.1	<0.1	2	
Chemical Oxygen Demand (mg/L)	540	44	22	110	120	110	160	140	110	98	160	88	62	84	230	44	54	75	220	120	NS	
Chloride (mg/L)	50	3	200	23	100	2.7	21	16	7.1	8.7	43	5.6	4.5	5.3	99	4.6	5.3	3.8	98	7.4	250	
Color (Pt-Co)		140					250					300	250					175		550	15	
Nitrate-Nitrogen (mg/L)	<0.2	<0.2	<0.2	0.6	0.3	0.15	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.25	0.13	<0.1	<0.1	10	
Sulfate (mg/L)	24	32	11	56	52	28	40	35	11	17	49	27	17	15	20	39	24	14	25	20	250	
Total Alkalinity (mg/L)	200	120	660	110	99	99	140	100	57	91	170	23	27	48	280	20	24	34	200	60	NS	
Total Cyanide (mg/L)		<0.01					<0.01					<0.01						<0.01		<0.01	0.2	
Total Dissolved Solids (mg/L)	320	5,100	810	330	240	160	340	250	170	200	300	180	160	150	530	130	150	140	560	190	500	
Total Hardness (mg/L)	42	110	94	49	36	41	46	44	31	40	56	42	34	36	77	42	35	35	130	37	NS	
Total Kjeldahl Nitrogen (mg/L)	26	0.8	70	4.6	12	23	24	20	8.2	12	34	4.6	2.1	4.9	47	2.4	2.8	2	35	5.9	NS	
Total Organic Carbon (mg/L)	71	21	47.8	35.5	39.3	45	56	62	42	43	61	33	30	41	84	21	24	27	78	40	NS	
Total Phenols (mg/L)	0.056	<0.005	0.008	0.012	0.003	0.0023	0.0028	0.0028	<0.002	0.003	0.0024	<0.002	0.0022	0.0093	0.0056	0.0022	<0.002	<0.002	0.0045	0.0079	0.001	

Part 360 Routine Metals

Boron (mg/L)	<0.1	<0.005	<0.005	<0.005	<0.005	0.53	0.71	<0.01	<0.01	<0.01	<0.5	<0.5	<0.5	<0.5	<0.5	<0.01	<0.01	<0.01	1.4	<0.5	0.28	1
Cadmium (mg/L)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.005
Calcium (mg/L)	11.2	29.8	24.4	12.6	9.1	10	12	11	7.7	9.6	14	10	8.5	8.8	20	10	8.7	8.7	34	11	9.3	NS
Iron (mg/L)	5.2	32.8	10.3	5.3	4.4	3.9	5.5	6.5	4.9	6.6	6.9	6.6	5.2	5.2	21	4.8	4.2	3.9	9.4	4	4.3	0.3*
Lead (mg/L)	<0.003	0.0085	<0.005	<0.005	<0.005	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.025
Magnesium (mg/L)	3.35	8.28	8.1	4.3	3.2	3.7	4.1	4.2	3	3.9	4.9	4	3.2	3.3	6.3	3.8	3.2	3.1	10	3.5	3.3	35 (GV)
Manganese (mg/L)	0.335	4.11	0.62	0.41	0.31	0.33	0.35	0.38	0.3	0.37	0.48	0.38	0.32	0.32	0.55	0.27	0.24	0.22	0.88	0.2	0.25	0.3*
Potassium (mg/L)	28.6	4.86	57	34.2	24.1	33	31	35	16	24	33	14	9.7	11	42	13	10	10	48	12	17	NS
Sodium (mg/L)	35.8	3.43	150	27.9	18.1	21	32	18	7.4	13	46	5.7	5.2	4	81	4.6	4.7	3.1	100	4	8.2	20

Part 360 Additional Baseline Metals

Aluminum (mg/L)		2.77					1.8					1.1	1.2					1.4		1.4	NS
Antimony (mg/L)		<0.015					<0.01					<0.01	<0.01					<0.01		<0.01	0.003
Arsenic (mg/L)		0.027					<0.01					<0.01	<0.01					0.011		<0.01	0.025
Barium (mg/L)		0.0855					<0.2					<0.2	<0.2					<0.2		<0.2	1
Beryllium (mg/L)		<0.003					<0.01					<0.01	<0.01					<0.01		<0.01	0.003 (GV)
Chromium (mg/L)		0.0097					<0.01					<0.01	<0.01					<0.01		<0.01	0.05
Chromium, Hexavalent (mg/L)		<0.01					<0.01					<0.01	<0.01					<0.01		<0.01	0.05
Cobalt (mg/L)		<0.02					<0.01					<0.01	<0.01					<0.01		<0.01	NS
Copper (mg/L)		0.0258					<0.01					<0.01	<0.01					<0.01		<0.01	0.2
Mercury (mg/L)		<0.0002					<0.0002					<0.0002	<0.0002					<0.0002		<0.0002	0.0007
Nickel (mg/L)		<0.03					0.021					<0.01	<0.01					<0.01		<0.01	0.1
Selenium (mg/L)		<0.005					<0.01					<0.01	<0.01					<0.01		<0.01	0.01
Silver (mg/L)		<0.01					<0.01					<0.01	<0.01					<0.01		<0.01	0.05
Thallium (mg/L)		<0.01					<0.01					<0.01	<0.01					<0.01		<0.01	0.0005 (GV)
Vanadium (mg/L)		<0.3					0.011					<0.01	<0.01					<0.01		<0.01	NS
Zinc (mg/L)		0.0508					0.032					0.012	0.024					0.049		0.019	2

Part 360 Volatile Organics

1,1,1,2-Tetrachloroethane (µg/L)	<5.0																				<1	5
1,1,1-Trichloroethane (µg/L)	<5.0																				<1	5
1,1,2,2-Tetrachloroethane (µg/L)	<5.0																				<1	5
1,1,2-Trichloroethane (µg/L)	<5.0																				<1	1

City of Rome
Tannery Road Landfill
MW-4S

Ground Water Analytical Data

Parameter	3/1/99	6/1/99	9/1/99	12/1/99	3/1/00	6/1/00	9/1/00	12/1/00	3/1/01	6/1/01	9/1/01	12/1/01	3/28/02	6/17/02	9/24/02	12/18/02	3/12/03	6/25/03	9/17/03	12/16/03	3/23/04	6/22/04	9/28/04	NYSDEC Ground Water Standard
1,1-Dichloroethane (µg/L)	<5.0						<5.0			<5.0		<5.0	<5.0				<5	<5					<1	5
1,1-Dichloroethene (µg/L)	<5.0						<5.0			<5.0		<5.0	<5.0				<5	<5					<1	5
1,2,3-Trichloropropane (µg/L)							<5.0			<5.0		<5.0	<5.0					<5					<1	0.04
1,2-Dibromo-3-chloropropane (µg/L)	<10.0						<5.0			<5.0		<5.0	<5.0					<5					<1	0.04
1,2-Dibromoethane (EDB) (µg/L)	<5.0						<5.0			<5.0		<5.0	<5.0					<5					<1	5
1,2-Dichlorobenzene (µg/L)	<5.0						<5.0			<5.0		<5.0	<5.0				<5	<5					<1	3
1,2-Dichloropropane (µg/L)	<5.0						<5.0			<5.0		<5.0	<5.0				<5	<5					<1	0.6
1,2-Dichloropropane (µg/L)	<5.0						<5.0			<5.0		<5.0	<5.0				<5	<5					<1	1
1,3-Dichlorobenzene (µg/L)	<5.0						<5.0			<5.0		<5.0	<5.0					<5					<1	<5
1,4-Dichloro-2-butene (µg/L)	<10.0																							<5
1,4-Dichlorobenzene (µg/L)	<5.0						<5.0			<5.0		<5.0	<5.0					<5					<1	<5
2-Butanone (MEK) (µg/L)	<10.0						<10.0			<10.0		<10.0	<10.0				<10	<10					<1	3
2-Hexanone (µg/L)	<10.0						<10.0			<10.0		<10.0	<10.0				<10	<10					<10	50 (GV)
4-Methyl 2-pentanone (µg/L)	<10.0						<10.0			<10.0		<10.0	<10.0				<10	<10					<10	50 (GV)
Acetone (µg/L)	<10.0						<10.0			<10.0		<10.0	<10.0				<10	<10					<10	NS
Acrylonitrile (µg/L)	<100.0						<20.0			<20.0		<20.0	<20.0				<10	<10					<10	50 (GV)
Benzene (µg/L)	<5.0						<5.0			<5.0		<5.0	<5.0				<5	<20					<5	5
Bromochloromethane (µg/L)	<5.0						<5.0			<5.0		<5.0	<5.0				<5	<5					<1	1
Bromodichloromethane (µg/L)	<5.0						<5.0			<5.0		<5.0	<5.0				<5	<5					<1	5
Bromoform (µg/L)	<5.0						<5.0			<5.0		<5.0	<5.0				<5	<5					<1	50 (GV)
Bromomethane (µg/L)	<5.0						<5.0			<5.0		<5.0	<5.0				<5	<5					<1	50 (GV)
Bromomethane (µg/L)	<5.0						<5.0			<5.0		<5.0	<5.0				<5	<5					<1	5
Carbon disulfide (µg/L)	<5.0						<5.0			<5.0		<5.0	<5.0				<5	<5					<1	5
Carbon tetrachloride (µg/L)	<5.0						<5.0			<5.0		<5.0	<5.0				<5	<5					<1	60 (GV)
Chlorobenzene (µg/L)	<5.0						<5.0			<5.0		<5.0	<5.0				<5	<5					<1	5
Chloroethane (µg/L)	<5.0						<5.0			<5.0		<5.0	<5.0				<5	<5					<1	5
Chloroform (µg/L)	<5.0						<5.0			<5.0		<5.0	<5.0				<5	<5					<1	7
Chloromethane (µg/L)	<5.0						<5.0			<5.0		<5.0	<5.0				<5	<5					<1	5
cis-1,2-Dichloroethene (µg/L)	<5.0						<5.0			<5.0		<5.0	<5.0				<5	<5					<1	5
cis-1,3-Dichloropropene (µg/L)	<5.0						<5.0			<5.0		<5.0	<5.0				<5	<5					<1	0.4**
Dibromochloromethane (µg/L)	<5.0						<5.0			<5.0		<5.0	<5.0				<5	<5					<1	50 (GV)
Dibromomethane (µg/L)	<5.0						<5.0			<5.0		<5.0	<5.0				<5	<5					<1	50 (GV)
Ethyl benzene (µg/L)	<5.0						<5.0			<5.0		<5.0	<5.0				<5	<5					<1	5
Iodomethane (µg/L)	<5.0						<5.0			<5.0		<5.0	<5.0				<5	<5					<1	5
Methylene Chloride (µg/L)	<5.0						<5.0			<5.0		<5.0	<5.0				<10	<10					<10	5
Styrene (µg/L)	<5.0						<5.0			<5.0		<5.0	<5.0				<5	<5					<1	5
Tetrachloroethene (µg/L)	<5.0						<5.0			<5.0		<5.0	<5.0				<5	<5					<1	5
Toluene (µg/L)	<5.0						<5.0			<5.0		<5.0	<5.0				<5	<5					<1	5
trans-1,2-Dichloroethene (µg/L)	<5.0						<5.0			<5.0		<5.0	<5.0				<5	<5					<1	5
trans-1,3-Dichloropropene (µg/L)	<5.0						<5.0			<5.0		<5.0	<5.0				<5	<5					<1	5
trans-1,4-Dichloro-2-butene (µg/L)	<5.0						<5.0			<5.0		<5.0	<5.0				<5	<5					<1	5
Trichloroethene (µg/L)	<5.0						<5.0			<5.0		<5.0	<5.0				<5	<10					<10	5
Trichlorofluoromethane (µg/L)	<5.0						<5.0			<5.0		<5.0	<5.0				<5	<5					<1	5
Vinyl Acetate (µg/L)	<50.0						<20.0			<20.0		<20.0	<20.0					<20					<5	NS
Vinyl Chloride (µg/L)	<5.0						<5.0			<5.0		<5.0	<5.0				<5	<5					<1	2
Xylenes (Total) (µg/L)	<5.0						<5.0			<5.0		<5.0	<5.0				<5	<5					<1	5
1,2-Dichloroethene - Total																	<5							

Notes

- 1) < indicates not detected at or above the listed value
- 2) NS indicates that no standard has been promulgated.
- 3) * indicates that the sum of these two analytes may not exceed 500 µg/L.
- 4) GV indicates that the value listed is a guidance value rather than a standard.
- 5) Values in bold exceeded the applicable NYSDEC ground water standard/guidance value.
- 6) ** indicates standard applies to the sum of the isomers

City of Rome
Tannery Road Landfill
MW-5S

Ground Water Analytical Data

Field Parameter	3/1/99	6/1/99	9/1/99	12/1/99	3/1/00	6/1/00	9/1/00	12/1/00	3/1/01	6/1/01	9/1/01	12/1/01	3/28/02	6/17/02	9/24/02	12/18/02	3/12/03	6/25/03	9/17/03	12/16/03	3/23/04	6/22/04	9/28/04	NYSDEC Ground Water Standard
Conductivity (µmhos/cm)	869	340	308	195	540	230	167	219	456	163	433	227	232	223	112	252	227	208	102	230	306	112	118	NS
pH (s.u.)	7.56	6.75	6.48	7.3	6.46	6.75	6.85	6.67	6.26	6.5	6.75	6.84	6.57	6.85	5.67	6.5	6.5	6.77	6.85	6.9	6.15	6.1	6.44	6.5 - 8.5
Temperature (deg C)	5.2	16.2	13.1	7	6.5	10.9	12.8	6.6	6	14.6	11.6	7.7	4.8	10.1	13.2	6.9	5.5	13.1	14.3	7	5.4	11.3	14.1	NS
Turbidity (NTU)	64	533	204	162	74	55	198	46	35	42	68	36	47	837	837	0	27	334	202	140	41	150	108	5
Part 360 Leachate Indicator Parameters																								
Ammonia-Nitrogen (mg/L)	1.5	<0.5	<0.3	<0.3	<0.3	0.11	0.11	0.34	1.3	0.34	1.4	0.43	0.82	0.26	0.09	0.57	0.65	0.71	0.058	0.4	0.83	<0.03	<0.03	2
Biochemical Oxygen Demand (BOD5) (mg/L)	11	11	2	2	62	20	<2.0	<4.0	<4.0	<4.0	4.7	<4.0	<4.0	<4.0	9.5	<4.0	<4.0	<4	<4.0	<4	<4.0	<4	<4	NS
Bromide (mg/L)	<0.2	<0.2	<2.0	<2.0	<2.0	1.3	<0.1	<0.1	<0.1	<0.1	0.13	<0.1	<0.1	<0.1	<0.1	<0.1	0.12	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	2
Chemical Oxygen Demand (mg/L)	71	45	32	20	36	24	32	26	37	5.2	43	23	31	18	62	20	16	69	22	32	25	25	15	NS
Chloride (mg/L)	14	3	2.4	3.2	5.9	94	2.9	2.3	5	2.9	6	3.2	3.1	2.9	2.6	2.8	4.1	4	3.2	4.3	4.2	2.9	2.6	250
Color (Pt-Co)		110				30						75	150					125				450		15
Nitrate-Nitrogen (mg/L)	<0.2	<0.2	<0.2	0.8	0.6	0.16	0.1	<0.1	<0.1	0.22	<0.1	<0.1	<0.1	<0.1	0.19	<0.1	<0.1	0.15	0.12	0.18	<0.1	0.19	0.2	10
Sulfate (mg/L)	37	40	28	31	51	16	44	60	42	34	53	36	23	18	21	23	21	22	16	14	21	11	9.6	250
Total Alkalinity (mg/L)	470	170	300	58	260	120	52	47	200	50	190	68	82	80	40	110	97	86	32	100	110	48	38	NS
Total Cyanide (mg/L)		<0.01										<0.01	<0.01					<0.01				<0.01	<0.01	0.2
Total Dissolved Solids (mg/L)	430	130	230	150	360	730	140	150	300	120	240	200	78	110	180	170	160	170	92	160	180	80	66	500
Total Hardness (mg/L)	320	130	148	81	228	120	96	110	200	78	230	110	110	93	110	120	130	120	66	110	130	54	52	NS
Total Kjeldahl Nitrogen (mg/L)	3.1	1.1	0.9	0.4	<0.3	0.61	0.69	0.8	1.8	0.67	1.6	0.62	0.89	0.39	1.4	0.63	0.66	0.79	0.37	0.59	1.3	0.41	0.2	NS
Total Organic Carbon (mg/L)	22	15	15.1	17.1	16.8	9.7	9.1	8.5	13	7.2	13	9.6	11	6.5	22	8.1	8.1	10	5.7	10	8.9	4.5	3.6	NS
Total Phenols (mg/L)	<0.005	<0.005	<0.001	0.003	0.001	0.0024	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	0.0097	0.0033	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	0.0039	0.001
Part 360 Routine Metals																								
Boron (mg/L)		<0.1				<0.5	<0.5	<0.01	<0.01	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.01	<0.01	<0.5	<0.5	<0.5	<0.5	<0.01	0.014	1
Cadmium (mg/L)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.005
Calcium (mg/L)	97.8	35	43	23.3	69.9	35	27	31	64	23	72	35	35	30	27	41	42	39	20	35	42	17	16	NS
Iron (mg/L)	31.4	20.8	14.2	9.3	24.8	7.6	11	8	15	10	15	6.1	12	8.2	97	11	10	11	13	30	9	6.3	4.7	0.3*
Lead (mg/L)	<0.003	0.0056	<0.005	<0.005	<0.005	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.022	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.025
Magnesium (mg/L)	18.6	10.2	9.8	5.5	13	7.9	6.7	7.3	10	5.1	12	6	5.3	4.2	9.5	5	5.3	4.8	4	4.9	5.7	2.8	2.9	35 (GV)
Manganese (mg/L)	12.2	4.16	6.5	2.6	8.5	2.8	1.4	1.8	2.6	0.37	2.5	1.4	1.6	1.4	3.6	1.4	0.92	0.65	0.48	1	0.67	0.32	0.34	0.3*
Potassium (mg/L)	8.94	4.89	3.4	3.8	6.6	5	4.7	5.1	8.8	24	9.4	5.6	4.4	4.2	5.1	5	4.7	4.6	3.3	4.7	5.1	2.4	2.4	NS
Sodium (mg/L)	12.1	3.34	11	3.1	5.3	1.9	1.3	<1.0	3.8	13	4.8	1.4	1.6	1	<1.0	1.4	1.5	2.2	<1	2.1	4.4	<1	<1	20
Part 360 Additional Baseline Metals																								
Aluminum (mg/L)		3.2				2				0.41	0.54							0.73				0.44		NS
Antimony (mg/L)		<0.015				0.022				<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.003
Arsenic (mg/L)		0.0138				<0.01	<0.01	<0.01	<0.01	0.013								0.031				0.013		0.025
Barium (mg/L)		0.0655				<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	1
Beryllium (mg/L)		<0.003				<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.003 (GV)
Chromium (mg/L)		0.0109				<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.05
Chromium, Hexavalent (mg/L)		<0.01				<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	NS
Cobalt (mg/L)		<0.02				<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.2
Copper (mg/L)		0.0295				0.014	0.014	0.014	0.014	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.0007
Mercury (mg/L)		<0.0002				0.0027	0.0027	0.0027	0.0027	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	0.0007
Nickel (mg/L)		<0.03				<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.1
Selenium (mg/L)		<0.005				<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.01
Silver (mg/L)		<0.01				<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.05
Thallium (mg/L)		<0.01				<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.0005 (GV)
Vanadium (mg/L)		<0.3				<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	NS
Zinc (mg/L)		0.0827				0.058	0.058	0.058	0.058	0.013	0.032	0.013	0.032	0.013	0.032	0.013	0.032	0.041	0.032	0.013	0.041	0.017	0.017	2
Part 360 Volatile Organics																								
1,1,1,2-Tetrachloroethane (µg/L)		<5.0				<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5	<5.0	<5.0	<5.0	<5.0	<5.0	5
1,1,1-Trichloroethane (µg/L)		<5.0				<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5	<5.0	<5.0	<5.0	<5.0	<5.0	5
1,1,2,2-Tetrachloroethane (µg/L)		<5.0				<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5	<5.0	<5.0	<5.0	<5.0	<5.0	5

City of Rome
Tannery Road Landfill
MW-5S

Ground Water Analytical Data

Parameter	3/1/99	6/1/99	9/1/99	12/1/99	3/1/00	6/1/00	9/1/00	12/1/00	3/1/01	6/1/01	9/1/01	12/1/01	3/28/02	6/17/02	9/24/02	12/18/02	3/12/03	6/25/03	9/17/03	12/16/03	3/23/04	6/22/04	9/28/04	NYSDEC Ground Water Standard
1,1,2-Trichloroethane (µg/L)																								
1,1-Dichloroethane (µg/L)																								
1,1-Dichloroethene (µg/L)																								
1,2,3-Trichloropropane (µg/L)																								
1,2-Dibromo-3-chloropropane (µg/L)																								
1,2-Dibromoethane (EDB) (µg/L)																								
1,2-Dichlorobenzene (µg/L)																								
1,2-Dichloroethane (µg/L)																								
1,2-Dichloropropane (µg/L)																								
1,3-Dichlorobenzene (µg/L)																								
1,4-Dichloro-2-butene (µg/L)																								
1,4-Dichlorobenzene (µg/L)																								
2-Butanone (MEK) (µg/L)																								
2-Hexanone (µg/L)																								
4-Methyl 2-pentanone (µg/L)																								
Acetone (µg/L)																								
Acrylonitrile (µg/L)																								
Benzene (µg/L)																								
Bromochloromethane (µg/L)																								
Bromodichloromethane (µg/L)																								
Bromoform (µg/L)																								
Bromomethane (µg/L)																								
Carbon disulfide (µg/L)																								
Carbon tetrachloride (µg/L)																								
Chlorobenzene (µg/L)																								
Chloroethane (µg/L)																								
Chloroform (µg/L)																								
Chloromethane (µg/L)																								
cis-1,2-Dichloroethene (µg/L)																								
cis-1,3-Dichloropropene (µg/L)																								
Dibromochloromethane (µg/L)																								
Dibromomethane (µg/L)																								
Ethyl benzene (µg/L)																								
Iodomethane (µg/L)																								
Methylene Chloride (µg/L)																								
Styrene (µg/L)																								
Tetrachloroethene (µg/L)																								
Toluene (µg/L)																								
trans-1,2-Dichloroethene (µg/L)																								
trans-1,3-Dichloropropene (µg/L)																								
trans-1,4-Dichloro-2-butene (µg/L)																								
Trichloroethene (µg/L)																								
Trichlorofluoromethane (µg/L)																								
Vinyl Acetate (µg/L)																								
Vinyl Chloride (µg/L)																								
Xylenes (Total) (µg/L)																								
1,2-Dichloroethene - Total																								

Notes

- 1) < indicates not detected at or above the listed value
- 2) NS indicates that no standard has been promulgated.
- 3) * indicates that the sum of these two analytes may not exceed 500 µg/L.
- 4) GV indicates that the value listed is a guidance value rather than a standard.
- 5) Values in bold exceeded the applicable NYSDEC ground water standard/guidance value.
- 6) ** Indicates standard applies to the sum of the isomers

City of Rome
Tannery Road Landfill
MW-7D
Ground Water Analytical Data

Parameter	3/1/99	6/1/99	9/1/99	12/1/99	3/1/00	6/1/00	9/1/00	12/1/00	3/1/01	6/1/01	9/1/01	12/1/01	3/28/02	6/17/02	9/24/02	12/18/02	3/12/03	6/25/03	9/17/03	12/16/03	3/23/04	6/22/04	9/28/04	NYSDEC Ground Water Standard
Field Parameters																								
Conductivity (µmhos/cm)	1,330	1,120	1,620	1,300	1,320	1,710	1,220	1,270	1,350	1,200	1,090	1,290	1,440	1,430	503	1,110	1,150	775	1,080	370	1,030	807	817	NS
pH (s.u.)	6.64	6.53	6.4	7.92	6.5	6.88	6.41	6.46	6.2	5.96	6.39	6.31	5.96	6.25	5.4	6.3	6.3	6.42	6.48	6.9	6.23	5.7	6	6.5 - 8.5
Temperature (deg C)	8.1	14.5	13.2	8.1	8.4	13.3	11.5	9	8.9	12.7	11.2	10.1	9	11.6	11.6	9.5	5.5	12.1	11.7	9	9.5	12.3	12.6	NS
Turbidity (NTU)	160	42	94	247	128	83	98	62	97	112	152	53	29	345	345	61	69	999	128	30	59	150	165	5
Part 360 Leachate Indicator Parameters																								
Ammonia-Nitrogen (mg/L)	47	25	47	36	33	58	41	37	46	40	47	39	43	46	22	34	39	40	38	8.4	30	29	25	2
Biochemical Oxygen Demand (BOD5) (mg/L)	19	17	17	11	11	4.4	10	<20.0		13	14	<20.0	<20.0	<10.0	9.3	<20.0	<10.0	12	7.1	<10	<10.0	<10	7.2	NS
Bromide (mg/L)	<0.2	<0.2	<2.0	<2.0	<2.0	<0.1	1.1	1	0.93	0.74	0.75	0.64	0.8	1	0.21	0.11	0.85	0.89	0.88	<0.1	0.83	0.68	0.5	2
Chemical Oxygen Demand (mg/L)	570	140	14	110	120	150	140	120	140	120	120	130	130	130	150	100	120	150	120	76	110	550	130	NS
Chloride (mg/L)	81	70	88	84	68	3.3	65	59	74	62	46	56	76	72	21	7	55	57	54	8.8	56	44	27	250
Color (Pt-Co)	280						750					850	750					600					675	15
Nitrate-Nitrogen (mg/L)	<0.2	<0.2	<0.2	1.5	4.9	0.16	<0.1	<0.1	0.13	<0.1	<0.1	<0.1	0.16	<0.1	0.23	<0.1	<0.1	<0.1	<0.1	0.72	0.23	<0.1	<0.1	10
Sulfate (mg/L)	<5.0	35	12	28	34	9.3	41	44	35	47	45	52	58	61	47	8.6	54	57	49	28	39	37	23	250
Total Alkalinity (mg/L)	670	370	710	470	450	680	460	440	430	470	430	390	460	470	160	360	390	410	340	120	320	330	290	NS
Total Cyanide (mg/L)	<0.01						<0.01					<0.01	<0.01					<0.01					<0.01	0.2
Total Dissolved Solids (mg/L)	540	540	710	660	610	400	590	600	670	570	480	650	720	650	420	520	580	640	580	240	510	440	420	500
Total Hardness (mg/L)	300	260	350	310	244	390	320	270	280	270	260	250	270	280	140	240	270	270	310	97	230	220	200	NS
Total Kjeldahl Nitrogen (mg/L)	44	36	36	24	26	680	50	51	52	43	50	39	50	44	26	36	41	41	25	6.4	35	24	18	NS
Total Organic Carbon (mg/L)	55	48	45.9	38.5	38.1	60	48	55	49	44	43	47	50	46	50	41	42	27	43	28	39	39	34	NS
Total Phenols (mg/L)	0.01	<0.005	0.01	0.014	0.006	0.0055	0.004	0.004	0.0026	0.0034	0.0039	0.0042	0.0027	0.012	0.0044	0.003	0.0032	0.003	0.0024	NA	0.004	<0.002	0.0021	0.001
Part 360 Routine Metals																								
Boron (mg/L)	0.7					1.7	1.2				0.83		0.99	0.83	<0.5			1.1	1.2	<0.5	0.95		0.8	1
Cadmium (mg/L)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.005
Calcium (mg/L)	62.9	61.1	74.9	64.2	56.4	87	77	66	70	66	64	65	71	71	35	63	69	80	76	24	57	54	49	NS
Iron (mg/L)	41.1	39.2	40.8	37.7	33.2	53	45	38	41	42	39	40	40	40	35	34	41	47	45	27	34	31	29	0.3*
Lead (mg/L)	0.0071	0.0041	0.006	0.014	0.006	<0.01	<0.01	<0.01	<0.01	0.013	0.014	<0.01	<0.01	<0.01	0.035	0.014	<0.01	<0.01	0.018	<0.01	0.012	0.015	<0.01	0.025
Magnesium (mg/L)	33.6	25.9	39.5	36.5	25.1	41	32	25	25	25	25	22	24	25	14	20	25	29	28	9.1	22	20	18	35 (GV)
Manganese (mg/L)	0.837	0.84	0.82	0.89	0.87	0.96	0.85	0.73	0.8	0.76	0.76	0.7	0.73	0.71	0.67	0.65	0.72	0.82	0.85	0.83	0.68	0.68	0.64	0.3*
Potassium (mg/L)	54.8	40.9	48	50.5	38.4	60	46	66	43	39	41	37	40	43	23	40	39	47	39	20	37	42	40	NS
Sodium (mg/L)	46.1	39.6	60	55.5	50.5	83	64	48	54	56	59	50	53	57	15	37	52	58	47	9.9	44	36	31	20
Part 360 Additional Baseline Metals																								
Aluminum (mg/L)	0.439						1					1.2	0.83					2.3					1.1	NS
Antimony (mg/L)	<0.015						0.034					<0.01	<0.01					<0.01					<0.01	0.003
Arsenic (mg/L)	<0.01						0.011					<0.01	<0.01					0.026				0.011	0.025	0.025
Barium (mg/L)	0.217						<0.2					0.43	0.49					0.61				0.23	1	1
Beryllium (mg/L)	<0.003						<0.01					<0.01	<0.01					<0.01				<0.01	<0.01	0.003 (GV)
Chromium (mg/L)	<0.005						<0.01					<0.01	<0.01					<0.01				<0.01	<0.01	0.05
Chromium, Hexavalent (mg/L)	<0.01						<0.01					<0.01	<0.01					<0.01				<0.01	<0.01	0.05
Cobalt (mg/L)	<0.02						<0.01					<0.01	<0.01					<0.01				<0.01	<0.01	NS
Copper (mg/L)	<0.01						<0.01					0.022	<0.01					<0.01				<0.01	<0.01	0.2
Mercury (mg/L)	<0.0002						<0.0002					<0.0002	<0.0002					<0.0002				<0.0002	<0.0002	0.0007
Nickel (mg/L)	<0.03						<0.01					<0.01	<0.01					<0.01				0.046	0.1	0.1
Selenium (mg/L)	<0.005						<0.01					<0.01	<0.01					<0.01				<0.01	<0.01	0.01
Silver (mg/L)	<0.01						<0.01					<0.01	<0.01					<0.01				<0.01	<0.01	0.05
Thallium (mg/L)	0.0105						<0.01					<0.01	<0.01					<0.01				<0.01	<0.01	0.0005 (GV)
Vanadium (mg/L)	<0.3						0.013					0.013	0.01					0.018				0.016	0.016	NS
Zinc (mg/L)	0.056						0.067					0.036	0.034					0.097				0.041	0.041	2

City of Rome
Tannery Road Landfill
MW-7D
Ground Water Analytical Data

Parameter	3/1/99	6/1/99	9/1/99	12/1/99	3/1/00	6/1/00	9/1/01	12/1/01	3/28/02	6/17/02	9/24/02	12/18/02	3/12/03	6/25/03	9/17/03	12/16/03	3/23/04	6/22/04	9/28/04	NYSDEC Ground Water Standard
1,2-Dichloroethane (µg/L)	<5.0							<5.0	<5.0				<5	<5					<1	0.6
1,2-Dichloropropane (µg/L)	<5.0							<5.0	<5.0				<5	<5					<1	1
1,3-Dichlorobenzene (µg/L)	<5.0																			3
1,4-Dichloro-2-butene (µg/L)	<10.0																			5
1,4-Dichlorobenzene (µg/L)	<5.0							<5.0	<5.0					<5					<1	3
2-Butanone (MEK) (µg/L)	<10.0							<10.0	<10.0				<10	<10					<10	50 (GV)
2-Hexanone (µg/L)	<10.0							<10.0	<10.0				<10	<10					<10	50 (GV)
4-Methyl 2-pentanone (µg/L)	<10.0							<10.0	<10.0				<10	<10					<10	NS
Acetone (µg/L)	<10.0							<10.0	<10.0				10	<10					<10	50 (GV)
Acrylonitrile (µg/L)	<100.0							<20.0	<20.0					<20					<5	5
Benzene (µg/L)	<5.0							17	24				15	16					4.3	1
Bromochloromethane (µg/L)	<5.0							<5.0	<5.0				<5	<5					<1	5
Bromodichloromethane (µg/L)	<5.0							<5.0	<5.0				<5	<5					<1	50 (GV)
Bromoform (µg/L)	<5.0							<5.0	<5.0				<5	<5					<1	50 (GV)
Bromomethane (µg/L)	<5.0							<5.0	<5.0				<5	<5					<1	5
Carbon disulfide (µg/L)	<18.0							<5.0	<5.0				<5	<5					<1	60 (GV)
Carbon tetrachloride (µg/L)	<5.0							<5.0	<5.0				<5	<5					<1	5
Chlorobenzene (µg/L)	23							5.8	5.3				<5	<5					4.4	5
Chloroethane (µg/L)	<5.0							<5.0	<5.0				<5	<5					<1	5
Chloroform (µg/L)	<5.0							<5.0	<5.0				<5	<5					<1	7
Chloromethane (µg/L)	<5.0							<5.0	<5.0				<5	<5					<1	5
cis-1,2-Dichloroethene (µg/L)	<5.0							<5.0	<5.0				<5	<5					<1	5
cis-1,3-Dichloropropene (µg/L)	<5.0							<5.0	<5.0				<5	<5					<1	0.4**
Dibromochloromethane (µg/L)	<5.0							<5.0	<5.0				<5	<5					<1	50 (GV)
Dibromomethane (µg/L)	<5.0							<5.0	<5.0				<5	<5					<1	5
Ethyl benzene (µg/L)	<5.0							<5.0	<5.0				<5	<5					<1	5
Iodomethane (µg/L)	<5.0							<5.0	<5.0				<5	<5					<1	5
Methylene Chloride (µg/L)	<5.0							<10.0	<10.0				<10	<10					<10	5
Styrene (µg/L)	<5.0							<5.0	<5.0				<5	<5					<1	5
Tetrachloroethene (µg/L)	<5.0							<5.0	<5.0				<5	<5					<1	5
Toluene (µg/L)	<5.0							<5.0	<5.0				<5	<5					<1	5
trans-1,2-Dichloroethene (µg/L)	<5.0							<5.0	<5.0				<5	<5					<1	5
trans-1,3-Dichloropropene (µg/L)	<5.0							<5.0	<5.0				<5	<5					<1	5
trans-1,4-Dichloro-2-butene (µg/L)	<5.0							<50.0	<5.0				<5	<5					<1	0.4**
Trichloroethene (µg/L)	<5.0							<50.0	<10.0				<5	<10					<10	5
Trichlorofluoromethane (µg/L)	<5.0							<5.0	<5.0				<5	<5					<1	5
Vinyl Acetate (µg/L)	<50.0							<20.0	<20.0					<5					<5	NS
Vinyl Chloride (µg/L)	<5.0							<5.0	<5.0				<5	<5					<5	2
Xylenes (Total) (µg/L)	2							130	180				160	97					<1	5
1,2-Dichloroethene - Total													<5						<1	

Notes

- 1) < indicates not detected at or above the listed value
- 2) NS indicates that no standard has been promulgated.
- 3) * indicates that the sum of these two analytes may not exceed 500 µg/L.
- 4) GV indicates that the value listed is a guidance value rather than a standard.
- 5) Values in bold exceeded the applicable NYSDEC ground water standard/guidance value.
- 6) ** Indicates standard applies to the sum of the isomers

City of Rome
Tannery Road Landfill
MW-95

Ground Water Analytical Data

Parameter	3/1/99	6/1/99	9/1/99	12/1/99	3/1/00	6/1/00	9/1/00	12/1/00	3/1/01	6/1/01	9/1/01	12/1/01	3/28/02	6/17/02	9/24/02	12/18/02	3/12/03	6/25/03	9/17/03	12/16/03	3/23/04	6/22/04	9/28/04	NYSDEC Ground Water Standard
Field Parameters																								
Conductivity (umhos/cm)	485	398	369	411	413	414	411	411	419	365	390	408	435	415	377	410	423	385	392	480	413	365	394	NS
pH (s.u.)	7.67	7.32	7.23	7.31	7.11	6.89	6.96	7.28	7.2	6.94	6.65	7.39	7.15	7.39	8.9	4.5	7.3	7.17	7.5	7.5	6.98	6.78	6.95	6.5 - 8.5
Temperature (deg C)	5.8	14.6	12.9	7.4	6.4	9.8	11	8.2	6.1	11.9	11.4	8.2	7.4	9.3	12.7	8	6.3	11.3	12.8	6	5.2	11	13.2	NS
Turbidity (NTU)	999	324	659	999	999	999	999	999	999	704	241	466	460	501	999	506	218	999	614	50	492	999	331	5
Part 360 Leachate Indicator Parameters																								
Ammonia-Nitrogen (mg/L)	<0.5	<0.5	<0.3	<0.3	<0.3	0.14	0.3	0.15	0.28	0.3	0.39	0.21	0.17	0.33	0.32	0.56	0.16	1.8	0.93	<0.03	0.56	0.64	0.48	2
Biochemical Oxygen Demand (BOD5) (mg/L)	<4.0	5	3.9	5	4.7	5.6	2.1	<4.0	<0.1	<4.0	4.2	<4.0	<4.0	<4.0	18	4.5	<4.0	4.4	<4.0	<4	<4.0	12	4.7	NS
Bromide (mg/L)	<0.2	<0.2	<2.0	<2.0	<2.0	0.15	<0.1	<0.1	<0.1	0.17	0.12	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	2
Chemical Oxygen Demand (mg/L)	160	120	26	76	64	74	160	120	96	120	72	75	290	75	87	64	57	120	67	75	120	120	79	NS
Chloride (mg/L)	8	3	4.1	<2.0	2.6	3.3	3.3	3.3	3.4	3.2	3.6	3.3	3.2	3.4	3.3	3.2	3.2	3.2	3.4	3.4	3.5	3.6	3	250
Color (Pt-Co)	530						400					600	850					750					700	15
Nitrate-Nitrogen (mg/L)	<0.2	<0.2	<0.2	0.5	0.3	<0.1	<0.1	<0.1	<0.1	0.18	<0.1	0.17	0.16	<0.1	0.14	<0.1	<0.1	<0.1	<0.1	0.18	<0.1	0.16	<0.1	10
Sulfate (mg/L)	5	8	12	8	12	8.5	2.3	4.7	4.2	2.9	3.1	8.6	15	8.4	3.2	6.2	19	15	3.2	8	5.9	3.5	1.9	250
Total Alkalinity (mg/L)	230	260	1400	260	270	240	270	280	230	260	240	210	240	250	230	250	240	250	220	240	220	240	210	NS
Total Cyanide (mg/L)	<0.01	<0.01					<0.01					<0.01	<0.01					<0.01					<0.01	0.2
Total Dissolved Solids (mg/L)	420	260	360	340	340	390	420	400	360	380	240	430	360	340	330	380	390	360	340	320	360	250	370	500
Total Hardness (mg/L)	1100	530	477,2904	489,5396	466	610	720	700	1200	300	420	390	460	360	650	730	380	400	410	150	730	400	280	NS
Total Kjeldahl Nitrogen (mg/L)	2.8	1.9	0.5	<0.3	<0.3	0.97	1.4	1.7	1	1.3	1	0.7	0.45	1.2	1.7	0.52	0.74	1.5	0.57	0.63	1.1	1	0.78	NS
Total Organic Carbon (mg/L)	30	29	28.6	38.5	32.6	32	31	36	35	30	29	32	29	31	32	26	24	32	25	28	25	30	24	NS
Total Phenols (mg/L)	<0.005	<0.005	<0.001	0.005	<0.001	0.0022	0.019	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	0.0087	0.0035	<0.002	<0.002	0.0022	0.0026	0.0031	<0.002	<0.002	<0.002	0.001
Part 360 Routine Metals																								
Boron (mg/L)	<0.1																							1
Cadmium (mg/L)	0.0088	0.0053	<0.005	<0.005	<0.005	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.005
Calcium (mg/L)	307	142	142	138	138	160	190	180	300	88	120	110	130	100	170	200	100	110	120	50	180	120	84	NS
Iron (mg/L)	85.3	47.8	28.2	26.8	14.3	37	56	56	110	21	30	24	29	26	48	52	25	36	29	2.6	67	13	6.1	0.3*
Lead (mg/L)	0.0381	0.021	0.011	0.017	0.008	<0.01	<0.01	0.043	0.042	0.012	0.012	0.011	0.017	0.014	0.034	0.041	<0.01	<0.01	0.023	<0.01	0.043	0.017	<0.01	0.025
Magnesium (mg/L)	83.9	43.5	29.8	35.2	29.4	48	58	60	100	19	29	28	34	26	53	60	27	30	27	5.2	66	26	16	35 (GV)
Manganese (mg/L)	4.21	2.13	1.7	1.9	1.6	2.4	2.8	2.7	5	1.1	1.5	1.5	1.8	1.4	2.6	3	1.4	1.6	1.5	0.36	3	1.4	0.96	0.3*
Potassium (mg/L)	12.1	6.96	2.3	4.6	2.4	4.6	6.4	7.3	14	4.2	7.2	4.6	4.6	6.6	6.3	5.4	4.5	5.8	4.9	2.7	7.8	3.5	2.2	NS
Sodium (mg/L)	49.3	39.3	30	41.7	46	46	49	53	55	48	33	43	55	57	38	40	53	54	37	55	62	53	33	20
Part 360 Additional Baseline Metals																								
Aluminum (mg/L)	23.9						<0.01					12						18					1.4	NS
Antimony (mg/L)	<0.015						0.048					<0.01	<0.01					<0.01					<0.01	0.003
Arsenic (mg/L)	<0.01						<0.01					0.016	0.019					0.035					<0.01	0.025
Barium (mg/L)	0.201						0.23					<0.2	<0.2					0.2					<0.2	1
Beryllium (mg/L)	<0.003						<0.01					<0.01	<0.01					<0.01					<0.01	0.003 (GV)
Chromium (mg/L)	0.0592						<0.01					0.02	0.022					0.033					<0.01	0.05
Chromium, Hexavalent (mg/L)	<0.01						<0.01					<0.01	<0.01					<0.01					<0.01	0.05
Cobalt (mg/L)	<0.02						0.024					<0.01	<0.01					0.014					<0.01	NS
Copper (mg/L)	0.0845						0.092					0.036	0.027					0.085					<0.01	0.2
Mercury (mg/L)	<0.0002						<0.0002					<0.0002	<0.0002					<0.0002					<0.0002	0.0007
Nickel (mg/L)	0.0726						0.071					0.027	0.034					0.042					0.014	0.1
Selenium (mg/L)	<0.005						<0.01					<0.01	<0.01					<0.01					<0.01	0.01
Silver (mg/L)	<0.01						<0.01					<0.01	<0.01					<0.01					<0.01	0.05
Thallium (mg/L)	<0.01						<0.01					<0.01	<0.01					<0.01					<0.01	0.0005 (GV)
Vanadium (mg/L)	0.047						0.048					0.023	0.024					0.037					<0.01	NS
Zinc (mg/L)	0.184						0.2					0.063	0.081					0.13					0.022	2
Part 360 Volatile Organics																								
1,1,1,2-Tetrachloroethane (ug/L)	<5.0						<5.0					<5.0	<5.0					<5					<1	5
1,1,1-Trichloroethane (ug/L)	<5.0						<5.0					<5.0	<5.0				<5	<5					<1	5
1,1,2,2-Tetrachloroethane (ug/L)	<5.0						<5.0					<5.0	<5.0				<5	<5					<1	5
1,1,2-Trichloroethane (ug/L)	<5.0						<5.0					<5.0	<5.0				<5	<5					<1	1
1,1-Dichloroethane (ug/L)	<5.0						<5.0					<5.0	<5.0				<5	<5					<1	5
1,1-Dichloroethene (ug/L)	<5.0						<5.0					<5.0	<5.0				<5	<5					<1	5
1,2,3-Trichloropropane (ug/L)	<5.0						<5.0					<5.0	<5.0				<5	<5					<1	0.04
1,2-Dibromo-3-chloropropane (ug/L)	<10.0						<5.0					<5.0	<5.0				<5	<5					<1	0.04
1,2-Dibromoethane (EDB) (ug/L)	<5.0						<5.0					<5.0	<5.0				<5	<5					<1	5
1,2-Dichlorobenzene (ug/L)	<5.0						<5.0					<5.0	<5.0				<5	<5					<1	3

City of Rome
Tannery Road Landfill
MW-9S
Ground Water Analytical Data

Parameter	3/1/99	6/1/99	9/1/99	12/1/99	3/1/00	6/1/00	9/1/00	12/1/00	3/1/01	6/1/01	9/1/01	12/1/01	3/28/02	6/17/02	9/24/02	12/18/02	3/12/03	6/25/03	9/17/03	12/16/03	3/23/04	6/22/04	9/28/04	NYSDEC Ground Water Standard
1,2-Dichloroethane (µg/L)	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5	<5					<1	0.6
1,2-Dichloropropane (µg/L)	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5	<5					<1	1
1,3-Dichlorobenzene (µg/L)	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10	<10					<1	3
1,4-Dichloro-2-butene (µg/L)	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10	<5					<1	5
1,4-Dichlorobenzene (µg/L)	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10	<10					<10	3
2-Butanone (MEK) (µg/L)	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10	<10					<10	50 (GV)
2-Hexanone (µg/L)	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10	<10					<10	50 (GV)
4-Methyl 2-pentanone (µg/L)	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10	<10					<10	NS
Acetone (µg/L)	<100.0	<10.0	<10.0	<10.0	<10.0	<10.0	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0	<10	<20					<5	50 (GV)
Acrylonitrile (µg/L)	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5	<5					<5	5
Benzene (µg/L)	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5	<5					<1	1
Bromochloromethane (µg/L)	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5	<5					<1	5
Bromodichloromethane (µg/L)	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5	<5					<1	50 (GV)
Bromoform (µg/L)	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5	<5					<1	50 (GV)
Bromomethane (µg/L)	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5	<5					<1	5
Carbon disulfide (µg/L)	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5	<5					<1	5
Carbon tetrachloride (µg/L)	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5	<5					<1	60 (GV)
Chlorobenzene (µg/L)	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5	<5					<1	5
Chloroethane (µg/L)	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5	<5					<1	5
Chloroform (µg/L)	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5	<5					<1	5
Chloromethane (µg/L)	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5	<5					<1	7
cis-1,2-Dichloroethene (µg/L)	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5	<5					<1	5
cis-1,3-Dichloropropene (µg/L)	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5	<5					<1	5
Dibromochloromethane (µg/L)	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5	<5					<1	0.4**
Dibromomethane (µg/L)	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5	<5					<1	50 (GV)
Ethyl benzene (µg/L)	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0	<10.0	<10.0	<10.0	<10.0	<5	<5					<1	5
Iodomethane (µg/L)	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20.0	<20.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10	<10					<10	5
Methylene Chloride (µg/L)	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10.0	<10.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5	<5					<1	5
Styrene (µg/L)	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5	<5					<1	5
Tetrachloroethene (µg/L)	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5	<5					<1	5
Toluene (µg/L)	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5	<5					<1	5
trans-1,2-Dichloroethene (µg/L)	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5	<5					<1	5
trans-1,3-Dichloropropene (µg/L)	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5	<5					<1	5
trans-1,4-Dichloro-2-butene (µg/L)	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<50.0	<5.0	<5.0	<5.0	<5.0	<50.0	<10.0	<10.0	<10.0	<10.0	<5	<10					<10	0.4**
Trichloroethene (µg/L)	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5	<5					<1	5
Trichlorofluoromethane (µg/L)	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5	<5					<1	5
Vinyl Acetate (µg/L)	<50.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0		<20					<5	NS
Vinyl Chloride (µg/L)	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5	<5					<1	5
Xylenes (Total) (µg/L)	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5	<5					<1	2
1,2-Dichloroethene - Total																	<5	<5					<1	5

Notes

- 1) < indicates not detected at or above the listed value
- 2) NS indicates that no standard has been promulgated.
- 3) * indicates that the sum of these two analytes may not exceed 500 µg/L.
- 4) GV indicates that the value listed is a guidance value rather than a standard.
- 5) Values in bold exceeded the applicable NYSDEC ground water standard/guidance value.
- 6) ** Indicates standard applies to the sum of the isomers

City of Rome
Tannery Road Landfill
Leachate Well MW-10
Analytical Data

Parameter	3/28/02	6/17/02	9/24/02	12/18/02	3/12/03	6/25/03	9/17/03	12/16/03	3/23/04	6/22/04	9/28/04	NYSDEC Ground Water Standard
Field Parameters												
Conductivity (µmhos/cm)	4,940	4,970	5,440	3,780	4,050	4,810	5,600	4,300	4,810	5,990	3,480	NS
pH (s.u.)	6.48	6.63	7		6.6	6.5	6.78	6.4	6.59	6.14	6.22	6.5 - 8.5
Temperature (deg C)	12.8	15.2	17.2	10.4	7.6	19.7	15.8	9	12.8	16	16.8	NS
Turbidity (NTU)	356	183	585	164	207	383	47	430	189	10	73	5
Part 360 Leachate Indicator Parameters												
Ammonia-Nitrogen (mg/L)	200	260	270	200	280	280	270	230	380	350	160	2
Biochemical Oxygen Demand (BOD5) (mg/L)	38	24	46	34	30	20	36	43	28	32	31	NS
Bromide (mg/L)	2.6	3	3.9	1.9	2.1	3.2	3.8	2.3	3.7	4.2	2.5	2
Chemical Oxygen Demand (mg/L)	420	250	3,200	270	340	490	640	270	300	470	290	NS
Chloride (mg/L)	440	430	610	380	200	450	550	260	450	600	280	250
Color (Pt-Co)	1,400					600					950	15
Nitrate-Nitrogen (mg/L)	<0.1	0.16	0.17	<0.1	<0.1	0.15	0.76	0.54	<0.1	<0.1	0.2	10
Sulfate (mg/L)	2.9	2.2	3.6	2.2	2.3	2.5	<1	2.3	3.6	1.4	2.1	250
Total Alkalinity (mg/L)	1,700	1,900	2,200	1,500	1,600	1,800	2,000	1,500	2,000	2,100	1,900	NS
Total Cyanide (mg/L)	<0.01					<0.01					<0.01	0.2
Total Dissolved Solids (mg/L)	1,900	2,100	2,500	1,500	1,400	2,200	2,500	1,200	2,200	2,400	1,700	500
Total Hardness (mg/L)	580	580	690	480	550	750	790	430	700	590	480	NS
Total Kjeldahl Nitrogen (mg/L)	290	220	320	220	280	300	330	350	330	380	260	NS
Total Organic Carbon (mg/L)	160	150	230	99	120	120	230	110	180	240	75	NS
Total Phenols (mg/L)	0.016	0.02	0.015	0.026	<0.002	0.015	0.013	0.017	0.017	0.021	0.02	0.001
Part 360 Routine Metals												
Boron (mg/L)	2.5	2.7	3.7			3.4	4.4	1.6	3.8		1.7	1
Cadmium (mg/L)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.005
Calcium (mg/L)	120	120	140	100	110	150	150	91	120	110	110	NS
Iron (mg/L)	62	60	70	48	58	61	68	52	38	47	49	0.3*
Lead (mg/L)	0.049	0.031	0.04	0.022	0.041	<0.01	0.014	0.022	0.028	<0.01	<0.01	0.025
Magnesium (mg/L)	68	67	83	53	65	94	100	50	96	75	53	35 (GV)
Manganese (mg/L)	1.3	1.5	2.4	1.6	1.5	1.7	2.7	1.3	0.74	1.5	1.6	0.3*
Potassium (mg/L)	190	200	340	180	230	230	410	220	350	330	320	NS
Sodium (mg/L)	430	460	600	250	270	420	630	250	500		230	20
Part 360 Additional Baseline Metals												
Aluminum (mg/L)	2.4					0.9					0.28	NS
Antimony (mg/L)	<0.01		<0.01			<0.01					0.012	0.003
Arsenic (mg/L)	0.02					0.038					0.022	0.025
Barium (mg/L)	<0.2					0.32					0.25	1
Beryllium (mg/L)	<0.01		<0.01			<0.01					<0.01	0.003 (GV)
Chromium (mg/L)	0.031					0.019					<0.01	0.05
Chromium, Hexavalent (mg/L)	<0.01					<0.01					<0.01	0.05
Cobalt (mg/L)	0.012					0.017					<0.01	NS
Copper (mg/L)	0.052					0.013					<0.01	0.2
Mercury (mg/L)	0.0002					<0.0002					<0.0002	0.0007
Nickel (mg/L)	0.062					0.049					0.024	0.1
Selenium (mg/L)	<0.01					<0.01					<0.01	0.01
Silver (mg/L)	<0.01					<0.01					<0.01	0.05
Thallium (mg/L)	<0.01					<0.01					<0.01	0.0005 (GV)
Vanadium (mg/L)	<0.01					0.012					0.013	NS
Zinc (mg/L)	0.16					0.11					0.099	2
Part 360 Volatile Organics												
1,1,1,2-Tetrachloroethane (µg/L)	<5.0					<5					<1	5
1,1,1-Trichloroethane (µg/L)	<5.0				<5	<5					<1	5
1,1,2,2-Tetrachloroethane (µg/L)	<5.0				<5	<5					<1	5
1,1,2-Trichloroethane (µg/L)	<5.0				<5	<5					<1	1

City of Rome
Tannery Road Landfill
Leachate Well MW-10
Analytical Data

Parameter	3/28/02	6/17/02	9/24/02	12/18/02	3/12/03	6/25/03	9/17/03	12/16/03	3/23/04	6/22/04	9/28/04	NYSDEC Ground Water Standard
1,1-Dichloroethane (µg/L)	<5.0				<5	<5					<1	5
1,1-Dichloroethene (µg/L)	<5.0				<5	<5					<1	5
1,2,3-Trichloropropane (µg/L)	<5.0					<5					<1	0.04
1,2-Dibromo-3-chloropropane (µg/L)	<5.0					<5					<1	0.04
1,2-Dibromoethane (EDB) (µg/L)	<5.0					<5					<1	5
1,2-Dichlorobenzene (µg/L)	<5.0					<5					<1	3
1,2-Dichloroethane (µg/L)	<5.0				<5	<5					<1	0.6
1,2-Dichloropropane (µg/L)	<5.0				<5	<5					<1	1
1,4-Dichlorobenzene (µg/L)	<5.0					<5					3.7	3
2-Butanone (MEK) (µg/L)	<10.0				<10	<10					<10	50 (GV)
2-Hexanone (µg/L)	<10.0				<10	<10					<10	50 (GV)
4-Methyl 2-pentanone (µg/L)	<10.0					<10					<10	NS
Acetone (µg/L)	18				28	13					<10	50 (GV)
Acrylonitrile (µg/L)	<20.0					<20					<5	5
Benzene (µg/L)	5.5				5.7	<5					5	1
Bromochloromethane (µg/L)	<5.0					<5					<1	5
Bromodichloromethane (µg/L)	<5.0				<5	<5					<1	50 (GV)
Bromoform (µg/L)	<5.0				<5	<5					<1	50 (GV)
Bromomethane (µg/L)	<5.0				<5	<5					<1	5
Carbon disulfide (µg/L)	<5.0				<5	<5					<1	60 (GV)
Carbon tetrachloride (µg/L)	<5.0				<5	<5					<1	5
Chlorobenzene (µg/L)	<5.0				<5	<5					4.1	5
Chloroethane (µg/L)	33				33	22					22	5
Chloroform (µg/L)	<5.0				<5	<5					<1	7
Chloromethane (µg/L)	<5.0				<5	<5					<1	5
cis-1,2-Dichloroethene (µg/L)	<5.0					<5					<1	5
cis-1,3-Dichloropropene (µg/L)	<5.0				<5	<5					<1	0.4**
Dibromochloromethane (µg/L)	<5.0				<5	<5					<1	50 (GV)
Dibromomethane (µg/L)	<5.0					<5					<1	5
Ethyl benzene (µg/L)	29				<5	<5					<1	5
Iodomethane (µg/L)	<10.0					<10					<10	5
Methylene Chloride (µg/L)	<10.0				<10	<10					<10	5
Styrene (µg/L)	<5.0				<5	<5					<1	5
Tetrachloroethene (µg/L)	<5.0				<5	<5					<1	5
Toluene (µg/L)	<5.0				<5	<5					<1	5
trans-1,2-Dichloroethene (µg/L)	<5.0					<5					<1	5
trans-1,3-Dichloropropene (µg/L)	<5.0				<5	<5					<1	0.4**
trans-1,4-Dichloro-2-butene (µg/L)	<10.0					<10					<10	5
Trichloroethene (µg/L)	<5.0				<5	<5					<1	5
Trichlorofluoromethane (µg/L)	<5.0					<5					<1	5
Vinyl Acetate (µg/L)	<20.0					<20					<5	NS
Vinyl Chloride (µg/L)	<5.0				<5	<5					<1	2
Xylenes (Total) (µg/L)	75				96	28					63	5
1,2-Dichloroethene - Total					<5							

Notes

- 1) < indicates not detected at or above the listed value
- 2) NS indicates that no standard has been promulgated.
- 3) * indicates that the sum of these two analytes may not exceed 500 µg/L.
- 4) GV indicates that the value listed is a guidance value rather than a standard.
- 5) Values in bold exceeded the applicable NYSDEC ground water standard/guidance value.
- 6) ** Indicates standard applies to the sum of the isomers

City of Rome
Tannery Road Landfill
Leachate Well MW-12
Analytical Data

Parameter	3/1/99	6/1/99	9/1/99	12/1/99	3/1/00	6/1/00	9/1/00	12/1/00	3/1/01	6/1/01	9/1/01	12/1/01	3/28/02	6/17/02	9/24/02	12/18/02	3/12/03	6/25/03	9/17/03	12/16/03	3/23/04	6/22/04	9/28/04	NYSDEC Ground Water Standard
Field Parameters																								
Conductivity (umhos/cm)	3,400	3,430	3,850	3,900	4,470	4,770	4,560	4,940	4,080	3,820	4,100	5,090	4,750	4,490	5,700	4,430	4,820	4,500	4,550	4,600	4,970	4,480	4,620	NS
pH (s.u.)	6.12	6.74	6.69	6.7	6.64	7.01	6.54	6.5	6.56	6.54	6.75	6.65	6.42	6.66	7.1	10.3	6.7	6.64	6.79	7.1	6.57	6.68	6.4	6.5 - 8.5
Temperature (deg C)	12.2	17.8	15.3	12	10.9	16	14.8	9.4	11.7	18.4	14.1	11.9	12.2	14.5	17	11.3	7.5	18.2	15.4	10	11.3	15.5	15.5	NS
Turbidity (NTU)	228	368	678	650	351	153	268	180	150	432	315	125	53	25	350	243	111	253	4	150	83	15	5	5
Part 360 Leachate Indicator Parameters																								
Ammonia-Nitrogen (mg/L)	150	120	170	160	210	260	250	250	200	190	240	270	200	210	220	200	240	280	270	230	300	270	220	2
Biochemical Oxygen Demand (BOD5) (mg/L)	17	34	16	16	34	37	30	29		5.5	40	25	<20.0	18	46	37	28	22	25	<20	29	31	35	NS
Bromide (mg/L)	2.1	<0.2	<2.0	5.1	4.47	4.8	5.4	5.7	4.2	3.9	3.9	4.3	4.4	4.5	4.8	4.8	5.2	4.4	5.2	4.8	5	5.1	4.8	2
Chemical Oxygen Demand (mg/L)	170	370	<10.0	270	380	400	440	440	360	170	31	240	97	280	410	400	360	420	430	380	720	130	420	NS
Chloride (mg/L)	280	330	320	330	370	500	410	510	320	330	460	330	350	340	470	460	320	370	350	290	370	500	270	250
Color (Pt-Co)	580				300							750	1500					750				1,400		15
Nitrate-Nitrogen (mg/L)	<0.2	<0.2	<0.2	<0.2	<0.2	0.21	<0.1	0.15	0.17	0.26	0.16	<0.1	0.38	0.19	0.2	0.25	0.28	0.19	0.19	0.41	0.55	0.24	0.2	10
Sulfate (mg/L)	180	6	11	<5.0	53	1.9	1.5	1.4	2.3	2.8	3	<1.0	2.3	1.9	2.2	2.5	2.2	2.3	2.2	2.6	2	1.4	2.3	250
Total Alkalinity (mg/L)	1400	1600	280	1400	990	990	1800	1800	1300	1700	1800	1800	1600	1800	1800	1700	1,900	1,800	1,700	1,700	1,800	1,900	1,700	NS
Total Cyanide (mg/L)	<0.01				<0.01		<0.01					<0.01						<0.01				<0.01		0.2
Total Dissolved Solids (mg/L)	1500	1400	1630	1750	1830	2100	1900	2000	1800	1700	1700	2000	1700	1900	1900	1800	1,900	2,000	1,800	1,800	1800	1,700	1,700	500
Total Hardness (mg/L)	652	620	831	635	596	540	620	630	620	620	660	580	650	620	630	660	600	590	720	540	460	470	450	NS
Total Kjeldahl Nitrogen (mg/L)	160	180	170	160	200	260	280	270	210	190	230	250	210	200	240	220	270	330	270	280	270	270	230	NS
Total Organic Carbon (mg/L)	89	90	270	107	37.3	140	120	150	130	130	140	120	150	160	160	180	150	100	150	160	140	130	140	NS
Total Phenols (mg/L)	0.03	0.027	0.034	0.033	0.027	0.019	<0.002	0.02	0.02	0.024	0.021	0.02	0.019	0.024	0.021	0.017	<0.002	0.014	0.014	0.018	0.022	0.022	0.019	0.001
Part 360 Metals																								
Boron (mg/L)	2.7					3.4	3.4			2.3	2.8	3	3.1	3	3			3.2	4	3	3		2.8	1
Cadmium (mg/L)	0.0058	0.0061	<0.005	<0.005	<0.005	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.010	<0.01	<0.01	0.005
Calcium (mg/L)	133	120	172	117	110	93	110	110	110	100	120	100	110	110	110	120	100	100	130	97	77	80	76	NS
Iron (mg/L)	57.2	54.9	58.4	57.1	51.6	52	59	59	58	56	65	54	55	50	57	54	52	50	67	47	44	44	42	0.3*
Lead (mg/L)	0.0096	0.0061	0.022	0.011	0.012	<0.01	<0.01	0.026	<0.01	<0.01	<0.01	0.018	<0.01	<0.01	<0.01	0.018	0.015	<0.01	0.018	0.011	0.015	<0.01	<0.01	0.025
Magnesium (mg/L)	77.8	76.8	97.6	83.4	78	76	84	89	82	86	90	80	88	86	88	90	82	83	98	73	64	66	63	35 (GV)
Manganese (mg/L)	0.447	0.356	0.73	0.39	0.39	0.28	0.36	0.37	0.35	0.35	0.45	0.4	0.4	0.36	0.45	0.46	0.35	0.36	0.47	0.35	0.29	0.28	0.3*	
Potassium (mg/L)	167	190	190	160	180	260	260	300	190	210	200	220	210	220	220	210	250	320	280	260	270	250	400	NS
Sodium (mg/L)	246	285	310	240	280	350	340	480	340	450	400	280	440	430	410	430	340	360	490	300	330	320	320	20
Part 360 Additional Baseline Metals																								
Aluminum (mg/L)		0.854				2.1	2.1					1.8	0.7					0.74				0.45		NS
Antimony (mg/L)		<0.015				0.031	0.031					<0.01	<0.01					0.01				0.014		0.003
Arsenic (mg/L)		<0.01				<0.01	<0.01					0.013	0.02					0.041				0.026		0.025
Barium (mg/L)		0.351				0.4	0.4					0.4	0.35					0.46				0.22		1
Beryllium (mg/L)		<0.003				<0.003	<0.003					<0.01	<0.01					<0.01				<0.01		0.003 (GV)
Chromium (mg/L)		<0.005				0.019	0.019					0.012	<0.01					0.015				<0.01		0.05
Chromium, Hexavalent (mg/L)		<0.01				<0.01	<0.01					<0.01	<0.01					<0.01				<0.01		0.05
Cobalt (mg/L)		<0.02				0.014	0.014					0.012	<0.01					0.012				<0.01		NS
Copper (mg/L)		<0.01				<0.01	<0.01					<0.01	<0.01					<0.01				<0.01		0.2
Mercury (mg/L)		<0.0002				<0.0002	<0.0002					0.0003	0.005					<0.0002				<0.0002		0.0007
Nickel (mg/L)		<0.03				0.039	0.039					0.031	0.024					0.036				0.024		0.1
Selenium (mg/L)		<0.005				<0.005	<0.005					<0.01	<0.01					<0.01				<0.01		0.01
Silver (mg/L)		<0.01				<0.01	<0.01					<0.01	<0.01					<0.01				<0.01		0.05
Thallium (mg/L)		<0.01				<0.01	<0.01					<0.01	<0.01					0.014				<0.01		0.0005 (GV)
Vanadium (mg/L)		<0.3				0.02	0.02					0.02	0.012					0.023				0.026		NS
Zinc (mg/L)		0.0388				0.13	0.13					0.071	0.022					0.046				0.026		2
Part 360 Volatile Organics																								
1,1,1,2-Tetrachloroethane (ug/L)		<5.0				<5.0	<5.0					<5.0	<5.0					<5				<1		5</

City of Rome
Tannery Road Landfill
Leachate Well MW-12
Analytical Data

Parameter	3/1/99	6/1/99	9/1/99	12/1/99	3/1/00	6/1/00	9/1/00	12/1/00	3/1/01	6/1/01	9/1/01	12/1/01	3/28/02	6/17/02	9/24/02	12/18/02	3/12/03	6/25/03	9/17/03	12/16/03	3/23/04	6/22/04	9/28/04	NYSDEC Ground Water Standard
Acetone (µg/L)	<10.0						15					<10.0	16				11	13					<10	50 (GV)
Acrylonitrile (µg/L)	<100.0						<20.0					<20.0	<20.0					<20					<5	5
Benzene (µg/L)	10						43					33	35				40	34					16	1
Bromochloromethane (µg/L)	<5.0						<5.0					<5.0	<5.0				<5	<5					<1	5
Bromodichloromethane (µg/L)	<5.0						<5.0					<5.0	<5.0				<5	<5					<1	50 (GV)
Bromoform (µg/L)	<5.0						<5.0					<5.0	<5.0				<5	<5					<1	50 (GV)
Bromomethane (µg/L)	<5.0						<5.0					<5.0	<5.0				<5	<5					<1	5
Carbon disulfide (µg/L)	<68						<5.0					<5.0	<5.0				<5	<5					<1	60 (GV)
Carbon tetrachloride (µg/L)	<5.0						<5.0					<5.0	<5.0				<5	<5					<1	5
Chlorobenzene (µg/L)	<5.0						<5.0					<5.0	<5.0				<5	<5					1.6	5
Chloroethane (µg/L)	<5.0						<5.0					<5.0	<5.0				<5	<5					<1	5
Chloroform (µg/L)	<5.0						<5.0					<5.0	<5.0				<5	<5					<1	7
Chloromethane (µg/L)	<5.0						<5.0					<5.0	<5.0				<5	<5					<1	5
cis-1,2-Dichloroethene (µg/L)	<5.0						<5.0					<5.0	<5.0				<5	<5					<1	5
cis-1,3-Dichloropropene (µg/L)	<5.0						<5.0					<5.0	<5.0				<5	<5					<1	0.4**
Dibromochloromethane (µg/L)	<5.0						<5.0					<5.0	<5.0				<5	<5					<1	50 (GV)
Dibromomethane (µg/L)	<5.0						<5.0					<5.0	<5.0				<5	<5					<1	5
Ethyl benzene (µg/L)	2						<5.0					<5.0	<5.0				<5	<5					<1	5
Iodomethane (µg/L)	<5.0						<20.0					<20.0	<10.0				<5	<10					<10	5
Methylene Chloride (µg/L)	<5.0						<10.0					<10.0	<10.0				<10	<10					<10	5
Styrene (µg/L)	<5.0						<5.0					<5.0	<5.0				<5	<5					<1	5
Tetrachloroethene (µg/L)	<5.0						<5.0					<5.0	<5.0				<5	<5					<1	5
Toluene (µg/L)	<5.0						<5.0					<5.0	<5.0				<5	<5					<1	5
trans-1,2-Dichloroethene (µg/L)	<5.0						<5.0					<5.0	<5.0				<5	<5					<1	5
trans-1,3-Dichloropropene (µg/L)	<5.0						<5.0					<5.0	<5.0				<5	<5					<1	0.4**
trans-1,4-Dichloro-2-butene (µg/L)	<5.0						<50.0					<50.0	<10.0				<5	<10					<10	5
Trichloroethene (µg/L)	<5.0						<5.0					<5.0	<5.0				<5	<5					<1	5
Trichlorofluoromethane (µg/L)	<5.0						<5.0					<5.0	<5.0				<5	<5					<1	5
Vinyl Acetate (µg/L)	<50.0						<20.0					<20.0	<5.0					<20					<1	NS
Vinyl Chloride (µg/L)	<5.0						<5.0					<5.0	<5.0				<5	<5					<1	2
Xylenes (Total) (µg/L)	15						41					26	17				11	<5					<1	5
1,2-Dichloroethene - Total																							2	

Notes

- 1) < indicates not detected at or above the listed value
- 2) NS indicates that no standard has been promulgated.
- 3) * indicates that the sum of these two analytes may not exceed 500 µg/L.
- 4) GV indicates that the value listed is a guidance value rather than a standard.
- 5) Values in bold exceeded the applicable NYSDEC ground water standard/guidance value.
- 6) ** Indicates standard applies to the sum of the isomers

FIGURES

