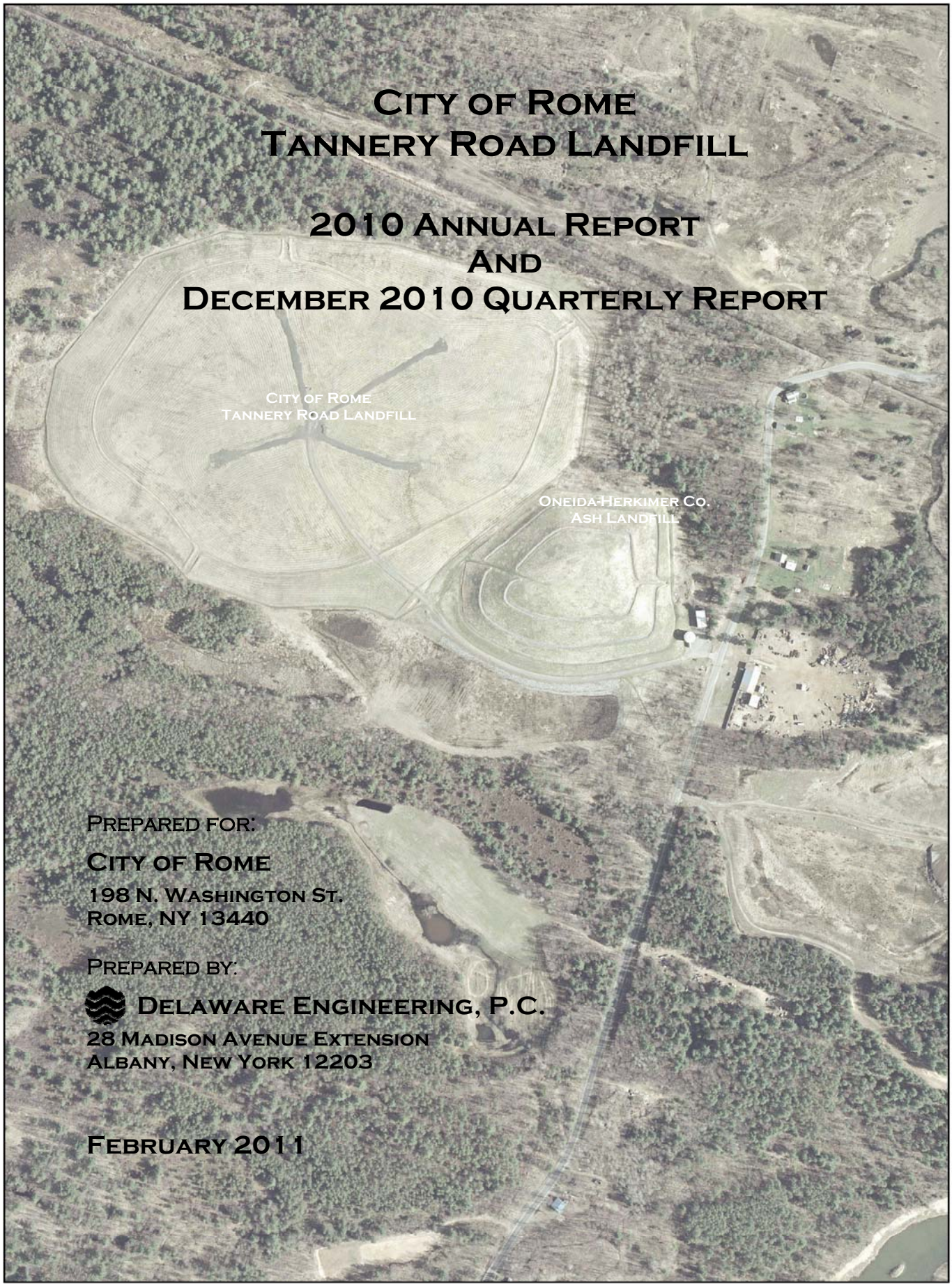
City of Rome
Tannery Road Landfill

2010 Annual Report
And
December 2010 Quarterly Report



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1.0 INTRODUCTION

This document presents the December 2010 quarterly data and the 2010 annual report for the post closure operations, including maintenance and monitoring activities for the closed City of Rome Landfill located on Tannery Road in the City of Rome, Oneida County, New York. Final closure of the landfill was completed in September 1997 and in January 1999 the New York State Department of Environmental Conservation (NYSDEC) approved the closure certification report.

The post closure maintenance and monitoring activities were performed pursuant to the Operation, Maintenance and Monitoring Plan (Revised October 19, 1999) that was approved by the NYSDEC. This annual report covers the period from February 2010 through January 2011.

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

- The results of all ground water and leachate quality analytical data.
- The amount of ground water/leachate collected from the recovery wells.
- Ground water contour maps for March, June, September and December 2010.
- Monthly Inspection Data.

2.0 DECEMBER 2010 GROUND WATER DATA

On December 21, 2010 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). Prior to sample collection, each well was purged of three well volumes or until dryness, whichever occurred first. A leachate sample was collected from leachate monitoring well LMW-10. The depth to water was measured in leachate monitoring wells LMW-11 and LMW-12.

Samples were analyzed for the NYSDEC Part 360 Routine 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.

2.1 Ground Water Metals Data

Consistent with historical data all monitoring well ground water samples including leachate well LMW-10 exhibited iron concentrations above the New York State (NYS) ground water standard. Manganese concentrations in the ground water sample from downgradient monitoring wells MW-2D, MW-3S, MW-5S and MW-7D, upgradient monitoring well MW-9S and leachate well

LMW-10 were higher than the NYS ground water standard. The downgradient ground water iron and manganese concentrations were lower than the upgradient MW-9S concentrations. The iron and manganese reported in the downgradient ground water samples is to some extent naturally derived. The ground water standards for iron and manganese are 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 leachate well LMW-10 exhibited sodium concentrations above the NYS 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. The upgradient MW-9S ground water sample and the LMW-10 leachate well sample magnesium concentrations were higher than the NYS ground water guidance value.

The MW-3S, MW-4S and MW-7D ground water potassium concentrations were higher than the upgradient MW-9S concentration and potassium is present in the landfill leachate. Data indicate that the downgradient ground water potassium concentrations are to some extent a landfill related impact on ground water quality. However, there is no ground water standard for potassium and the reported downgradient ground water potassium concentrations do not represent an environmental or human health threat.

The metals data indicate that the ground water iron and manganese concentrations detected above the respective ground water standards in the downgradient landfill monitoring wells are most likely related to a combination of natural sources and a landfill derived impact on ground water. The reported concentrations do not represent an environmental or public health threat.

2.2 Ground Water Leachate Indicator Data

The MW-4S and MW-7D ground water ammonia concentrations were above the NYS ground water standard as was the concentration in the LMW-10 leachate monitoring well sample. The ammonia detected in the ground water monitoring well samples is most likely landfill related.

The sample from leachate monitoring well LMW-10 also exhibited TDS and total phenol concentrations that were above the respective NYS ground water standards. All downgradient monitoring well ground water TDS and total phenol concentrations were less than the respective NYSDEC ground water standards.

Data indicate that the 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.

2.3 Field Parameter Data

The ground water field turbidity in the ground water samples from monitoring well MW-9S and leachate well LMW-10 were above the NYS ground water standard of 5 NTU's. The reported turbidity is a function of the movement of fine grained material into the well during the

purging/sampling procedures. The downgradient MW-1S, MW-4S and MW-7D and the upgradient MW-9S ground water sample pH values were below the NYS ground water standard lower limit (6.5). The low pH is not considered related to the landfill. Historically, landfill leachate pH has typically been higher than the ground water standard lower limit.

3.0 2010 AND HISTORICAL GROUND WATER AND LEACHTE ANALYTICAL DATA

Ground water samples were collected in March, June, September and December from monitoring wells MW-1S, MW-2D, MW-3S, MW-4S, MW-5S, MW-7D and groundwater/leachate well LMW-10. The June, September and December samples were analyzed for the NYSDEC Part 360 Routine parameters. The samples collected in March 2010 were analyzed for the Part 360 Baseline parameters.

The March, June and September analytical results have been previously submitted to the NYSDEC in the quarterly monitoring reports. The December 2010 data is summarized in Table 1 and the laboratory data is provided in Appendix A. Tables summarizing the analytical data for each monitoring well from March 1999 to present are provided in Appendix B. Concentrations that exceeded applicable New York State ground water standards are presented in a bold font.

The ground water analytical data from 2010 demonstrate that ground water in the vicinity of monitoring wells MW-2D, MW-3S, MW-4S and MW-7D continue to exhibit elevated concentrations of landfill related constituents. In 2010 ground water from monitoring wells MW-2D, MW-3S, MW-4S and MW-7D exhibited ammonia concentrations, in at least one of the four monitoring events, above the ground water standard and/or upgradient MW-9S concentrations. Potassium concentrations in ground water in the vicinity of monitoring wells MW-2D, MW-3S, MW-4S and MW-7D were generally higher than the upgradient MW-9S concentration as were the MW-7D iron and chloride concentrations, the MW-3S iron concentrations and the MW-4S and MW-7D COD values. Ground water from monitoring well MW-7D continues to exhibit benzene and total xylene concentrations above the ground water standard.

Graphs of parameter concentration over time (trend graphs) for several leachate indicator parameters (alkalinity, BOD, COD, ammonia, chloride, iron, potassium, sodium, TDS and TOC) for each monitoring well are provided in Appendix C. The trend graphs indicate that MW-3S ground water alkalinity, ammonia, BOD, COD, chloride, iron, potassium, sodium, TDS and TOC concentrations have exhibited a decreasing trend from the 1999 concentrations and appear to have stabilized at the current levels. Trend graphs indicate a decreasing trend in the MW-2D ammonia and potassium concentrations and the alkalinity, BOD, COD, chloride, iron, sodium, TDS and TOC concentrations are stable. Trend graphs indicate that MW-7D ground water alkalinity, ammonia, chloride, iron, potassium, sodium, TDS and TOC concentrations have exhibited a decreasing trend from the 1999 concentrations and appear to have stabilized at the current concentrations. The MW-4S and MW-5S ground water alkalinity, BOD, COD, ammonia, chloride, iron, potassium, sodium, TDS and TOC concentrations are stable.

A Mann-Kendall Trend analysis (Table 4) of ground water data for leachate indicator parameters and common metals present in landfill leachate indicates a decreasing trend in concentration for many leachate indicator and metals in ground water from all downgradient monitoring wells.

Trend graphs and the Mann-Kendall trend data indicate that implementation of the procedures stipulated in the Record of Decision have resulted in an improvement in downgradient ground water quality. Data indicate that monitoring once every fifteen months for the Part 360 baseline parameters will provide adequate information on long-term ground water trends and ground water quality adjacent to the landfill.

4.0 2010 AND HISTORICAL GROUND WATER ELEVATION DATA

Consistent with the O&M plan, ground water elevation data were measured monthly from monitoring wells MW-1S, MW-2S, MW-3S, MW-4S, MW-5S, MW-7S, MW-9S, piezometer PZ-1 and leachate wells LMW-10, LMW-11 and LMW-12. A summary of the 2010 ground water elevation data are provided in Table 2. Ground water contour maps for March, June, September and December 2010 are enclosed. Graphs depicting historical ground water elevations over time for each monitoring well are provided in Appendix D.

Monitoring well MW-9S has been considered upgradient of the landfill. However, historical ground water elevation data indicate that there are periods when the ground water elevation in MW-9S is lower than the water level elevation in landfill leachate wells LMW-10, LMW-11 and LMW-12 and lower than the ground water elevation in monitoring well MW-3S. Monitoring well MW-9S is located at a greater distance in an upgradient direction from the landfill than any other monitoring well, and would be expected to exhibit less of a landfill related impact on ground water quality, if any, than any other landfill monitoring well. Therefore, for the purpose of comparing ground water analytical results, ground water data from monitoring well MW-9S has been considered representative of background conditions.

The monthly ground water elevation data for 2010 indicates that for most of 2010 ground water elevations in monitoring wells MW-3S, MW-9S, MW-4S, MW-2S and MW-5S were higher than the LMW-10 and LMW-12 leachate monitoring well ground water elevations, indicating an inward gradient at these locations for most of the year. The MW-3S and MW-9S ground water elevations were higher than the LMW-10 ground water elevation for all ground water elevation measurements, the MW-4S ground water elevation was higher for ten of the eleven measurements, the MW-5S ground water elevation was higher for nine of the eleven measurements and the MW-2S ground water elevation was higher than the LMW-10 ground water elevation for seven of the eleven measurements.

Trend graphs of historical ground water elevation data indicate a decreasing trend in ground water elevation in the LMW-10 and LMW-12 leachate monitoring wells. With the exception of monitoring well MW-2S, ground water monitoring well ground water elevations have remained stable or exhibit a slight increasing trend (MW-4S, MW-7S, MW-9S). Ground water elevations in MW-2S exhibit a decreasing trend.

Data indicate that the leachate recovery wells have reduced the overall head difference between the landfill and the monitoring wells located outside the slurry/sheet pile wall. Monitoring well ground water elevation and leachate monitoring well ground water elevation data indicate a consistent inward gradient (toward the landfill) between perimeter landfill monitoring wells MW-3S, MW-4S and MW-9S and the landfill leachate monitoring wells within the landfill slurry wall, and an inward gradient for most of each year at monitoring wells MW-5S and MW-2S. The ground water elevation data is consistent and quarterly monitoring of ground water elevations would be sufficient to monitor long-term ground water elevation trends.

5.0 2010 SITE INSPECTIONS

5.1 Weekly Site Inspections

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

5.2 Monthly Inspections

Delaware Engineering performed monthly landfill inspections. The inspections included general review of landfill cap conditions, general site conditions, evaluation and recording of data for the ground water/leachate pumping system, collection of ground water levels and operability of the landfill flares and passive gas vents. In March, June, September and December ground water samples were collected and submitted for analysis as discussed in Section 2.0 and Section 3.0.

The totalizer readings for RW-2 have remained the same since September 2010. However, the pump hour meter indicates that the pump has been operational. The status of the totalizer should be investigated and repaired if necessary. If the totalizer is operational and there is a break in the pump discharge line the pump should be shut down until the line can be repaired.

Inspections conducted throughout 2010 of the area along the fence at the southeast end of the landfill adjacent to the constructed wetland indicate that erosion in this area continues to be a potential concern. Erosion channels are present in this area and although vegetation has colonized the channels, the potential for erosion of the landfill cap is a potential concern. In the spring of 2011 it is recommended that the soil be replaced, an erosion control mat (North American Green P550 or Curlex HVHD or equivalent) be installed and the area seeded.

A break in the tac-on-berm on the east side of the landfill near leachate well LMW-12 was repaired in June 2010 and a new stormwater down chute installed to facilitate removal of stormwater runoff from the cap and prevent further breaks in the tac-on-berm along the east side of the landfill. Erosion just inside the landfill gate south side of the road has been repaired with riprap.

Repairs to the following additional areas of erosion are recommended:

- Break in tac-on-berm along south side of landfill southwest of recovery well RW-3.

- Animal burrow in tac-on-berm approximately 20 feet east of the north down chute.

- A break has developed in the tac-on-berm between monitoring wells MW-3S and MW-2S and soil below the tac-on-berm has eroded. Area is currently frozen and covered in snow. Repairs should be done as soon as possible prior to spring thaw/rains to prevent further erosion.

6.0 2010 GROUND WATER / LEACHATE PUMPING SYSTEM

For each recovery well, readings from the flow totalizers in the meter pit were recorded during the monthly inspections. Leachate flows for each recovery well for the period from January 23, 2010 to January 31, 2011 are presented below. A summary of the monthly leachate pumping volumes is provided in Table 3.

RW-1	0 gallons
RW-2	418,700 gallons
RW-3	454,700 gallons
RW-4	0 gallons
Total Gallons	873,400 gallons

A summary of the total gallons of leachate that have been pumped from the landfill since 1998 is provided in the following table.

YEAR	RW-1	RW-2	RW-3	RW-4	TOTAL
1998 (To 12/18/98)	998,300	1,403,300	366,300	328,900	3,096,800
1999 (12/18/98 to 12/20/99	822,193	1,334,300	318,500	141,000	2,615,993
2000 (12/20/99 to1/12/01	724,800	1,351,300	223,200	0	2,299,300
2001 (1/12/01 to 1/16/02)	596,400	1,179,900	297,500	0	2,073,800
2002 (1/16/02 to 1/9/03)	515,900	1,025,600	414,400	299,300	2,255,200
2003 (1/9/03 to 1/29/04)	487,500	1,040,800	632,900	1,497,400	3,658,600
2004 (1/29/04 to 1/20/05)	428,200	1,016,100	384,100	1,004,500	2,832,900
2005 (1/20/05 to (1/17/06)	-28,000	522,300	381,400	622,600	1,498,300
2006 (1/17/06 to (1/19/07)	0	1,132,116	474,600	0	1,606,716
2007 (1/19/07 to (1/23/2008)	-1,200	1,634,700	488,000	0	2,121,500
2008 (1/23/2008 to 1/23/2009)	0	1,162,600	594,500	0	1,757,100
2009 (1/23/2009 to 1/21/2010)	0	1,776,800	522,700	0	2,299,500
2010 (1/21/2010 to 1/31/2011)	0	418,700	454,700	0	873,400
TOTAL	4,544,093	14,998,516	5,552,800	3,893,700	28,989,109

During 2010 recovery wells RW-1 and RW-4 were non functional. As noted in the 2005 annual report a video inspection of RW-1 and RW-4 revealed that the well casings had collapsed prohibiting the discharge of leachate from the pumps. Continual shifting of the landfill mass has previously affected site monitoring wells and leachate recovery well RW-4.

7.0 PROPOSED REDUCTION IN GROUND WATER MONITORING AND REPORTING

Post closure ground water monitoring has been conducted quarterly and ground water level measurements conducted monthly at the City of Rome, Tannery Road Landfill since March 1999. The City of Rome is requesting that NYSDEC approve a reduction in ground water sample collection and analysis to one sample every fifteen months on a rotating quarterly basis (March, June, September, December). Ground water samples would be collected and analyzed for the Part 360 baseline parameters. Ground water level data would be collected on a quarterly basis (March, June, September, December). Data to support this request is summarized below.

Monitoring well ground water data indicate that ground water quality at the landfill perimeter is stable. Graphs of parameter concentration over time (trend graphs) for several leachate indicator parameters (alkalinity, BOD, COD, ammonia, chloride, iron, potassium, sodium, TDS and TOC) for each monitoring well are provided in Appendix C. Trend graphs indicate that MW-3S ground water alkalinity, ammonia, BOD, COD, chloride, iron, potassium, sodium, TDS and TOC concentrations have exhibited a decreasing trend from the 1999 concentrations and appear to have stabilized at the current levels. Trend graphs indicate a decreasing trend in the MW-2D ammonia and potassium concentrations and the alkalinity, BOD, COD, chloride, iron, sodium, TDS and TOC concentrations are stable. Trend graphs indicate that MW-7D ground water alkalinity, ammonia, chloride, iron, potassium, sodium, TDS and TOC concentrations have exhibited a decreasing trend from the 1999 concentrations and concentrations appear to have stabilized at the current concentrations. The MW-4S and MW-5S ground water alkalinity, BOD, COD, ammonia, chloride, iron, potassium, sodium, TDS and TOC concentrations are stable.

A Mann-Kendall Trend analysis (Table 4) of ground water data for leachate indicator parameters and common metals present in landfill leachate indicate a decreasing trend in concentration for many leachate indicator and metals in ground water from all downgradient monitoring wells.

Trend graphs and the Mann-Kendall trend data indicate that implementation of the procedures stipulated in the Record of Decision have resulted in an improvement in downgradient ground water quality. Data indicate that ground water concentrations of the common landfill leachate indicator parameters are stable and that sample collection and analysis once every fifteen months is sufficient to provide long-term monitoring of ground water quality.

The monthly ground water elevation data for 2010 indicates that for most of 2010 ground water elevations in monitoring wells MW-3S, MW-9S, MW-4S, MW-2S and MW-5S were higher than the LMW-10 and LMW-12 leachate monitoring well elevations, indicating an inward gradient at these locations for most of the year. The MW-3S and MW-9S ground water elevations were higher than the LMW-10 ground water elevation for all ground water elevation measurements,

the MW-4S ground water elevation was higher for ten of the eleven measurements, the MW-5S ground water elevation was higher for nine of the eleven measurements and the MW-2S ground water elevation was higher than the LMW-10 ground water elevation for seven of the eleven measurements.

Trend graphs of historical ground water elevation data indicate a decreasing trend in ground water elevation in the LMW-10 and LMW-12 leachate monitoring wells. With the exception of monitoring well MW-2S, ground water monitoring well ground water elevations have remained stable or exhibit a slight increasing trend (MW-4S, MW-7S, MW-9S). Ground water elevations in MW-2S exhibit a decreasing trend. Data indicate that the leachate recovery wells have reduced the overall head difference between the landfill and the monitoring wells located outside the slurry/sheet pile wall.

Historical ground water analytical data indicate that ground water concentrations of the typical landfill leachate parameters are stable or decreasing. Data indicate that monitoring once every fifteen months for the Part 360 baseline parameters will provide adequate information on long-term ground water trends and ground water quality adjacent to the landfill.

Monitoring well ground water elevation and leachate monitoring well ground water elevation data indicate a consistent inward gradient (toward the landfill) between perimeter landfill monitoring wells MW-3S, MW-4S and MW-9S and the landfill leachate monitoring wells within the landfill slurry wall, and an inward gradient for most of each year at monitoring wells MW-5S and MW-2S. The ground water elevation data is consistent and quarterly monitoring of ground water elevations would be sufficient to monitor long-term ground water elevation trends.

TABLES

Table 1
City of Rome Tannery Road LandfilL
December 2010 Ground Water Data

Sample Location	MW-1S	MW-2D	MW-3S	MW-4S	MW-5S	MW-7D	MW-9S	LMW-10	NYSDEC Ground Water Standard/GV
Leachate Indicators (mg/L)									
Ammonia-Nitrogen (mg/L)	<0.1	1.2	1.7	**8.4**	0.3	**14.6**	<0.1	158	2.0
Biochemical Oxygen Demand (BOD) (mg/L)	<4.0	<4.0	9	<4.0	<4.0	<12	<4.0	35	NS
Bromide (mg/L)	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	2 (GV)
Chemical Oxygen Demand (COD) (mg/L)	13	13	22	98	13	59	34	258	NS
Chloride (mg/L)	<1.0	1.42	<1.0	3.26	<1.0	9.11	1.72	188	250
Nitrate-Nitrogen (mg/L)	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	10
Sulfate (mg/L)	6.08	13.6	<2.0	33.8	5.86	<2.0	3.18	<2.0	250
Total Alkalinity (mg/L)	3	80	255	65	135	275	235	1210	NS
Total Dissolved Solids (mg/L)	28	130	320	218	138	330	332	**1,090**	500
Total Hardness (mg/L)	6	75	142	42	113	191	447	379	NS
Total Kjeldahl Nitrogen (mg/L)	<1.0	1.7	3.9	9.8	1.4	17.9	<1.0	171	NS
Total Organic Carbon (mg/L)	4	7.8	11.9	40.8	5.6	27.8	18.6	66.6	NS
Total Phenols (mg/L)	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	**0.01**	0.001
Part 360 Routine Metals									
Cadmium (mg/L)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.005
Calcium (mg/L)	1.9	24.8	71.3	11.9	34.6	52.2	126	69.2	NS
Iron (mg/L)	**1.25**	**9.33**	**26.9**	**2.51**	**6.73**	**24.2**	**31**	**30.2**	0.3
Lead (mg/L)	<0.005	<0.005	0.006	<0.005	<0.005	0.007	0.007	0.014	0.025
Magnesium (mg/L)	0.333	3.18	15.5	2.88	6.55	14.8	32.3	**35**	35
Manganese (mg/L)	0.032	**0.829**	**1.24**	0.255	**0.739**	**0.653**	**1.66**	**0.759**	0.3
Potassium (mg/L)	0.167	4.49	12.5	14.5	1.73	19.1	4.91	99.2	NS
Sodium (mg/L)	0.46	1.13	0.991	10.6	0.734	10.3	**27.9**	**124**	20
Field Parameters									
Conductivity (µmhos/cm)	19	174	477	207	237	525	371	2850	NS
pH (s.u.)	**5.69**	7.1	6.7	**6.1**	6.6	**5.75**	**6.12**	6.68	6.5-8.5
Temperature (deg C)	5.8	9	7.1	6.9	7	9.4	7.5	10.4	NS
Turbidity (NTU)	0	0	0	0	0	0	**253**	**10**	5

Notes:
1) Results in bold typeface indicate that the result exceeds the applicable standard.
2) NS indicates No Standard.
3) GV indicates that the standard listed is a Guidance Value.

Table 2
Water Level Elevation Data, Comparison to LMW-10 and LMW-12
City of Rome Tannery Road Landfill

WELL	MEASURING POINT ELEVATION (FT.)	12/14/2009	1/21/2010	3/24/2010	4/23/2010	5/21/2010	6/23/2010	7/27/2010	8/27/2010	9/22/2010	10/28/2010	11/16/2010	12/21/2010	1/31/2011
MW-1S	449.59	5.38	5.55	4.42	5.3	5.72	5.92	6.69	6.26	7.51	4.85	4.91	5.05	5.63
MW-2S	459.44	7.08	7.73	6.12	7.48	8.09	8.45	8.77	7.81	9.18	6.33	6.56	6.95	7.95
MW-3S	456.4	3.49	3.43	3.46	3.85	4.15	3.81	4.35	3.77	5.04	3.5	3.51	3.66	3.78
MW-4S	456.19	4.12	4.18	3.76	3.99	4.22	4.15	4.79	4.51	5.85	3.92	3.98	3.93	4.11
MW-5S	457.15	4.74	4.87	3.72	4.81	5.22	5.71	6.42	5.83	7.51	4.02	4.17	4.64	4.98
MW-7S	452.25	10.41	10.11	8.1	8.29	8.74	9.68	10.15	9.98	10.97	8.73	8.58	8	9.03
MW-9S	456.38	3.8	3.97	3.72	4	4.13	3.94	4.2	3.92	4.7	3.7	3.69	3.76	3.82
LMW-10	486.3	35.29	35.24	34.88	34.8	34.86	35.14	35.02	35.25	35.13	34.69	34.88	34.63	34.8
LMW-11	502.4	52.34	52.1	51.73	51.47	51.93	52.09	52.01	52.05	51.99	51.68	51.78	51.47	51.57
LMW-12	483.11	32.8	32.7	32.3	32	32.23	32.43	32.6	32.79	32.8	32.38	32.41	31.92	32.09
PZ-1	454.37	6.26	7.15	7.1	6.67	7.42	7.74	8.48	7.49	9.17	5.44	5.75	6.15	7.32
MW-7D	451.79	10.48	10.16	8.42	8.5	9.03	9.74	10.17	10.07	9.94	9.15	8.99	8.13	9.17

Ground Water Elevation ft/msl

WELL	12/14/2009	1/21/2010	3/24/2010	4/23/2010	5/21/2010	6/23/2010	7/27/2010	8/27/2010	9/22/2010	10/28/2010	11/16/2010	12/21/2010	1/31/2011
MW-1S	444.21	444.04	445.17	444.29	443.87	443.67	442.9	443.33	442.08	444.74	444.68	444.54	443.96
MW-2S	452.36	451.71	453.32	451.96	451.35	450.99	450.67	451.63	450.26	453.11	452.88	452.49	451.49
MW-3S	452.91	452.97	452.94	452.55	452.25	452.59	452.05	452.63	451.36	452.9	452.89	452.74	452.62
MW-4S	452.07	452.01	452.43	452.2	451.97	452.04	451.4	451.68	450.34	452.27	452.21	452.26	452.08
MW-5S	452.41	452.28	453.43	452.34	451.93	451.44	450.73	451.32	449.64	453.13	452.98	452.51	452.17
MW-7S	441.84	442.14	444.15	443.96	443.51	442.57	442.1	442.27	441.28	443.52	443.67	444.25	443.22
MW-9S	452.58	452.41	452.66	452.38	452.25	452.44	452.18	452.46	451.68	452.68	452.69	452.62	452.56
LMW-10	451.01	451.06	451.42	451.5	451.44	451.16	451.28	451.05	451.17	451.61	451.42	451.67	451.5
LMW-11	450.06	450.3	450.67	450.93	450.47	450.31	450.39	450.35	450.41	450.72	450.62	450.93	450.83
LMW-12	450.31	450.41	450.81	451.11	450.88	450.68	450.51	450.32	450.31	450.73	450.7	451.19	451.02
PZ-1	448.11	447.22	447.27	447.7	446.95	446.63	445.89	446.88	445.2	448.93	448.62	448.22	447.05
MW-7D	441.31	441.63	443.37	443.29	442.76	442.05	441.62	441.72	441.85	442.64	442.8	443.66	442.62

LMW-12 Comparison

WELL	12/14/2009	1/21/2010	3/24/2010	4/23/2010	5/21/2010	6/23/2010	7/27/2010	8/27/2010	9/22/2010	10/28/2010	11/16/2010	12/21/2010	1/31/2011
MW-1S	6.1	6.37	5.64	6.82	7.01	7.01	7.61	6.99	8.23	5.99	6.02	6.65	7.06
MW-2S	-2.05	-1.3	-2.51	-0.85	-0.47	-0.31	-0.16	-1.31	0.05	-2.38	-2.18	-1.3	-0.47
MW-3S	-2.6	-2.56	-2.13	-1.44	-1.37	-1.91	-1.54	-2.31	-1.05	-2.17	-2.19	-1.55	-1.6
MW-4S	-1.76	-1.6	-1.62	-1.09	-1.09	-1.36	-0.89	-1.36	-0.03	-1.54	-1.51	-1.07	-1.06
MW-5S	-2.1	-1.87	-2.62	-1.23	-1.05	-0.76	-0.22	-1	0.67	-2.4	-2.28	-1.32	-1.15
MW-7S	8.47	8.27	6.66	7.15	7.37	8.11	8.41	8.05	9.03	7.21	7.03	6.94	7.8
MW-9S	-2.27	-2	-1.85	-1.27	-1.37	-1.76	-1.67	-2.14	-1.37	-1.95	-1.99	-1.43	-1.54
LMW-10	-0.7	-0.65	-0.61	-0.39	-0.56	-0.48	-0.77	-0.73	-0.86	-0.88	-0.72	-0.48	-0.48
LMW-11	0.25	0.11	0.14	0.18	0.41	0.37	0.12	-0.03	-0.1	0.01	0.08	0.26	0.19
PZ-1	2.2	3.19	3.54	3.41	3.93	4.05	4.62	3.44	5.11	1.8	2.08	2.97	3.97
MW-7D	9	8.78	7.44	7.82	8.12	8.63	8.89	8.6	8.46	8.09	7.9	7.53	8.4

LMW-10 Comparison

WELL	12/14/2009	1/21/2010	3/24/2010	4/23/2010	5/21/2010	6/23/2010	7/27/2010	8/27/2010	9/22/2010	10/28/2010	11/16/2010	12/21/2010	1/31/2011
MW-1S	6.8	7.02	6.25	7.21	7.57	7.49	8.38	7.72	9.09	6.87	6.74	7.13	7.54
MW-2S	-1.35	-0.65	-1.9	-0.46	0.09	0.17	0.61	-0.58	0.91	-1.5	-1.46	-0.82	0.01
MW-3S	-1.9	-1.91	-1.52	-1.05	-0.81	-1.43	-0.77	-1.58	-0.19	-1.29	-1.47	-1.07	-1.12
MW-4S	-1.06	-0.95	-1.01	-0.7	-0.53	-0.88	-0.12	-0.63	0.83	-0.66	-0.79	-0.59	-0.58
MW-5S	-1.4	-1.22	-2.01	-0.84	-0.49	-0.28	0.55	-0.27	1.53	-1.52	-1.56	-0.84	-0.67
MW-7S	9.17	8.92	7.27	7.54	7.93	8.59	9.18	8.78	9.89	8.09	7.75	7.42	8.28
MW-9S	-1.57	-1.35	-1.24	-0.88	-0.81	-1.28	-0.9	-1.41	-0.51	-1.07	-1.27	-0.95	-1.06
PZ-1	2.9	3.84	4.15	3.8	4.49	4.53	5.39	4.17	5.97	2.68	2.8	3.45	4.45
MW-7D	9.7	9.43	8.05	8.21	8.68	9.11	9.66	9.33	9.32	8.97	8.62	8.01	8.88

Notes:
1) A negative number indicates an inward gradient.

Table 3
Operational Data
City of Rome
Tannery Road Landfill

Pump Station at Tannery Road
Hour Meters

	1/21/2010	3/24/2010	4/23/2010	5/21/2010	6/23/2010	7/27/2010	8/27/2010	9/22/2010	10/28/2010	11/16/2010	12/21/2010	1/31/2011	1/21/2010 - 1/31/2011
Pump #1	80,662	81,443	81,882	82,533	83,326	83,944	84,168	84,409	84,881	85,135	85,593	86,010	5,348
Pump #2	69,768	70,403	70,753	71,258	71,867	72,342	72,516	72,701	73,052	73,243	73,591	73,910	4,142

Totalizers in Meter Pit

	1/21/2010	3/24/2010	4/23/2010	5/21/2010	6/23/2010	7/27/2010	8/27/2010	9/22/2010	10/28/2010	11/16/2010	12/21/2010	1/31/2011	1/21/2010 - 1/31/2011
RW-1	4,538,600	4,538,600	4,538,600	4,538,600	4,538,600	4,538,600	4,538,600	4,538,600	4,538,600	4,538,600	4,538,600	4,538,600	0
RW-2	0	0	100	150,900	304,900	417,600	418,200	418,700	418,700	418,700	418,700	418,700	418,700
RW-3	3,098,100	3,189,000	3,257,900	3,284,200	3,360,800	3,384,200	3,406,600	3,434,400	3,476,900	3,493,800	3,511,400	3,552,800	454,700
RW-4	3,893,000	3,893,000	3,893,000	3,893,000	3,893,000	3,893,000	3,893,000	3,893,000	3,893,000	3,893,000	3,893,000	3,893,000	0
Total													873,400

Hour Meters

	1/21/2010	3/24/2010	4/23/2010	5/21/2010	6/23/2010	7/27/2010	8/27/2010	9/22/2010	10/28/2010	11/16/2010	12/21/2010	1/31/2011	1/21/2010 - 1/31/2011
RW-1	19,686.5	19,686.5	19,686.5	19,686.5	19,686.5	19,686.5	19,686.5	19,686.5	19,686.5	19,686.5	19,686.5	19,686.5	0
RW-2	49,878.9	49,878.9	49,879.4	50,550.7	51,341.3	52,160.2	52,901.9	53,524.7	54,389.0	54,918.7	55,670.0	56,657.2	6,778
RW-3	73,351.9	74,080.0	74,654.3	74,868.7	75,428.3	75,776.3	75,803.8	75,837.1	75,888.5	75,909.3	75,931.2	75,983.6	2,632
RW-4	28,401.5	28,401.5	28,401.5	28,401.5	28,401.5	28,401.5	28,401.5	28,401.5	28,401.5	28,401.5	28,401.5	28,401.5	0

Table 4
City of Rome Tannery Road Landfill
Ground Water Trend Analysis

Parameter	Unit	Size	%NDs	S Value	Tabular	Statistically Significant Trend	Direction
LMW-10							
Leachate Indicators							
Ammonia-Nitrogen	mg/L	36	0.0%	0.189		No	-
Biochemical Oxygen Demand (BOD5)	mg/L	35	5.7%	1	0.5	No	-
Boron	mg/L	14	7.1%	-23	0.117	No	-
Bromide	mg/L	36	19.4%	-89	0.1175	No	-
Chemical Oxygen Demand	mg/L	36	0.0%	-32	0.338	No	-
Chloride	mg/L	36	0.0%	-15	0.4253	No	-
Nitrate-Nitrogen	mg/L	36	63.9%	-111	0.0683	No	-
Sulfate	mg/L	36	30.6%	-129	0.0412	Yes	Downward
Total Alkalinity	mg/L	36	0.0%	45	0.2763	No	-
Total Dissolved Solids	mg/L	36	0.0%	-43	0.2858	No	-
Total Hardness	mg/L	36	0.0%	-38	0.308	No	-
Total Kjeldahl Nitrogen	mg/L	36	0.0%	-198	0.003	Yes	Downward
Total Organic Carbon	mg/L	36	0.0%	-11	0.4467	No	-
Total Phenols	mg/L	36	22.2%	-77	0.1526	No	-
Routine Metals							
Calcium	mg/L	36	0.0%	-59	0.217	No	-
Iron	mg/L	36	0.0%	-271	0	Yes	Downward
Magnesium	mg/L	36	0.0%	-17	0.4149	No	-
Manganese	mg/L	36	0.0%	-265	0	Yes	Downward
Potassium	mg/L	36	0.0%	-73	0.1656	No	-
Sodium	mg/L	36	0.0%	-120	0.053	No	-
Field or Physical							
Conductivity	µmhos/cm	36	0.0%	-51	0.2504	No	-
pH	s.u.	35	0.0%	48	0.2524	No	-
Redox	mg/L	1	0.0%	0	0	Yes	-
Temperature	deg C	30	0.0%	-22	0.3569	No	-
Turbidity	NTU	35	0.0%	-267	0	Yes	Downward
MW-1S							
Leachate Indicators							
Ammonia-Nitrogen	mg/L	48	60.4%	-0.0177765	0.492909	No	-
Biochemical Oxygen Demand (BOD5)	mg/L	46	87.0%	-0.482876	0.314592	No	-
Boron	mg/L	20	95.0%	-10	0.387	No	-
Bromide	mg/L	48	93.8%	-0.533296	0.296914	No	-
Chemical Oxygen Demand	mg/L	48	16.7%	-3.72419	).79728e-00	Yes	Downward
Chloride	mg/L	48	12.5%	-2.47094	0.00673792	Yes	Downward
Nitrate-Nitrogen	mg/L	48	50.0%	-3.07534	0.0010513	Yes	Downward
Sulfate	mg/L	48	2.1%	-3.38643	0.00035403	Yes	Downward
Total Alkalinity	mg/L	48	14.6%	-1.08437	0.139101	No	-
Total Dissolved Solids	mg/L	48	10.4%	-2.30206	0.0106658	Yes	Downward
Total Hardness	mg/L	48	31.3%	-4.07972	2.25452e-00	Yes	Downward
Total Kjeldahl Nitrogen	mg/L	48	12.5%	0	0.5	No	-
Total Organic Carbon	mg/L	48	0.0%	-3.91973	4.43243e-00	Yes	Downward
Total Phenols	mg/L	48	81.3%	0.479967	0.684375	No	-
Routine Metals							

Table 4
City of Rome Tannery Road Landfill
Ground Water Trend Analysis

Calcium	mg/L	48	14.6%	-2.60426	0.00460358	Yes	Downward
Iron	mg/L	48	0.0%	-3.79529	7.37345e-00	Yes	Downward
Magnesium	mg/L	48	56.3%	-3.45754	0.000272567	Yes	Downward
Manganese	mg/L	48	6.3%	-3.28866	0.00050332	Yes	Downward
Potassium	mg/L	48	56.3%	-2.55093	0.00537172	Yes	Downward
Sodium	mg/L	48	39.6%	-4.39081	5.64652e-00	Yes	Downward
Field or Physical							
Conductivity	µmhos/cm	48	0.0%	-2.50649	0.00609677	Yes	Downward
pH	s.u.	47	0.0%	-0.907875	0.181972	No	-
Temperature	deg C	42	0.0%	-0.368478	0.356258	No	-
Turbidity	NTU	47	0.0%	-5.12628	1.47759e-00	Yes	Downward
MW-2D							
Leachate Indicators							
Ammonia-Nitrogen	mg/L	28	3.6%	-159	0.001	Yes	Downward
Biochemical Oxygen Demand (BOD5)	mg/L	27	70.4%	-51	0.15	No	-
Boron	mg/L	7	71.4%	-1	0.5	No	-
Bromide	mg/L	28	89.3%	55	0.1486	No	-
Chemical Oxygen Demand	mg/L	28	3.6%	-151	0.0013	Yes	Downward
Chloride	mg/L	28	3.6%	-132	0.004	Yes	Downward
Nitrate-Nitrogen	mg/L	28	46.4%	-99	0.0281	Yes	Downward
Sulfate	mg/L	28	0.0%	-207	0	Yes	Downward
Total Alkalinity	mg/L	28	0.0%	40	0.222	No	-
Total Dissolved Solids	mg/L	28	0.0%	-134	0.004	Yes	Downward
Total Hardness	mg/L	28	0.0%	-50	0.168	No	-
Total Kjeldahl Nitrogen	mg/L	28	0.0%	-172	0	Yes	Downward
Total Organic Carbon	mg/L	28	0.0%	-100	0.025	Yes	Downward
Total Phenols	mg/L	28	85.7%	-13	0.4089	No	-
Routine Metals							
Calcium	mg/L	28	0.0%	-74	0.075	No	-
Iron	mg/L	28	0.0%	-97	0.0307	Yes	Downward
Magnesium	mg/L	28	0.0%	-30	0.285	No	-
Manganese	mg/L	28	3.6%	-112	0.014	Yes	Downward
Potassium	mg/L	28	0.0%	-244	0	Yes	Downward
Sodium	mg/L	28	3.6%	-168	0	Yes	Downward
Field or Physical							
Conductivity	µmhos/cm	28	0.0%	-178	0	Yes	Downward
pH	s.u.	28	0.0%	29	0.2947	No	-
Temperature	deg C	22	0.0%	5	0.456	No	-
Turbidity	NTU	27	0.0%	-168	0	Yes	Downward
MW-3S							
Leachate Indicators							
Ammonia-Nitrogen	mg/L	47	0.0%	-8.18004	1.4187e-016	Yes	Downward
Biochemical Oxygen Demand (BOD5)	mg/L	45	33.3%	-4.08901	2.16609e-00	Yes	Downward
Boron	mg/L	19	31.6%	-138	0	Yes	Downward
Bromide	mg/L	47	70.2%	-3.7232	9.83552e-00	Yes	Downward
Chemical Oxygen Demand	mg/L	47	2.1%	-7.29968	1.44225e-01	Yes	Downward
Chloride	mg/L	47	12.8%	-7.50143	3.15624e-01	Yes	Downward
Nitrate-Nitrogen	mg/L	47	70.2%	-2.53105	0.00568616	Yes	Downward
Sulfate	mg/L	47	10.6%	-4.29177	3.86264e-00	Yes	Downward

Table 4
City of Rome Tannery Road Landfill
Ground Water Trend Analysis

Total Alkalinity	mg/L	47	0.0%	-8.06083	3.78895e-01	Yes	Downward
Total Dissolved Solids	mg/L	47	0.0%	-6.99706	1.30698e-01	Yes	Downward
Total Hardness	mg/L	47	0.0%	-2.14589	0.015941	Yes	Downward
Total Kjeldahl Nitrogen	mg/L	47	0.0%	-7.6665	3.83772e-01	Yes	Downward
Total Organic Carbon	mg/L	47	0.0%	-8.07	3.51494e-01	Yes	Downward
Total Phenols	mg/L	47	61.7%	-3.17298	0.000754423	Yes	Downward
Routine Metals							
Calcium	mg/L	47	0.0%	-2.31095	0.0104177	Yes	Downward
Iron	mg/L	47	0.0%	-1.74239	0.0407204	Yes	Downward
Magnesium	mg/L	47	0.0%	-1.60483	0.0542657	No	-
Manganese	mg/L	47	2.1%	-0.81617	0.207201	No	-
Potassium	mg/L	47	0.0%	-8.63857	2.84612e-01	Yes	Downward
Sodium	mg/L	47	6.4%	-8.44599	1.50743e-01	Yes	Downward
Field or Physical							
Conductivity	µmhos/cm	47	0.0%	-7.69401	7.12967e-01	Yes	Downward
pH	s.u.	46	0.0%	-0.757452	0.22439	No	-
Temperature	deg C	41	0.0%	-0.426832	0.334751	No	-
Turbidity	NTU	45	0.0%	-4.13792	1.75233e-00	Yes	Downward
MW-4S							
Leachate Indicators							
Ammonia-Nitrogen	mg/L	48	2.1%	-1.40435	0.0801077	No	-
Biochemical Oxygen Demand (BOD5)	mg/L	46	54.3%	-3.0014	0.00134369	Yes	Downward
Boron	mg/L	20	55.0%	-7	0.4235	No	-
Bromide	mg/L	48	79.2%	-0.213319	0.415539	No	-
Chemical Oxygen Demand	mg/L	48	0.0%	-0.675509	0.249676	No	-
Chloride	mg/L	48	2.1%	-2.66648	0.00383248	Yes	Downward
Nitrate-Nitrogen	mg/L	48	81.3%	-3.53753	0.000201942	Yes	Downward
Sulfate	mg/L	48	0.0%	-1.29769	0.0971973	No	-
Total Alkalinity	mg/L	48	0.0%	-1.56434	0.0588693	No	-
Total Dissolved Solids	mg/L	48	0.0%	-2.83536	0.00228871	Yes	Downward
Total Hardness	mg/L	48	0.0%	-1.01326	0.155467	No	-
Total Kjeldahl Nitrogen	mg/L	48	0.0%	-1.35991	0.0869298	No	-
Total Organic Carbon	mg/L	48	0.0%	-0.915492	0.179967	No	-
Total Phenols	mg/L	48	62.5%	-2.78203	0.002701	Yes	Downward
Routine Metals							
Calcium	mg/L	48	0.0%	0.124436	0.549515	No	-
Iron	mg/L	48	0.0%	-4.87966	5.31337e-00	Yes	Downward
Magnesium	mg/L	48	0.0%	-3.72419	9.79728e-00	Yes	Downward
Manganese	mg/L	48	2.1%	-3.90195	4.77099e-00	Yes	Downward
Potassium	mg/L	48	0.0%	-3.10201	0.000961065	Yes	Downward
Sodium	mg/L	48	0.0%	-1.9732	0.0242366	Yes	Downward
Field or Physical							
Conductivity	µmhos/cm	48	0.0%	-2.39095	0.00840252	Yes	Downward
pH	s.u.	47	0.0%	-2.40266	0.00813818	Yes	Downward
Temperature	deg C	42	0.0%	-0.509367	0.305247	No	-
Turbidity	NTU	46	0.0%	-4.4595	4.10756e-00	Yes	Downward
MW-5S							
Leachate Indicators							
Ammonia-Nitrogen	mg/L	48	37.5%	-1.9732	0.0242366	Yes	Downward

Table 4
City of Rome Tannery Road Landfill
Ground Water Trend Analysis

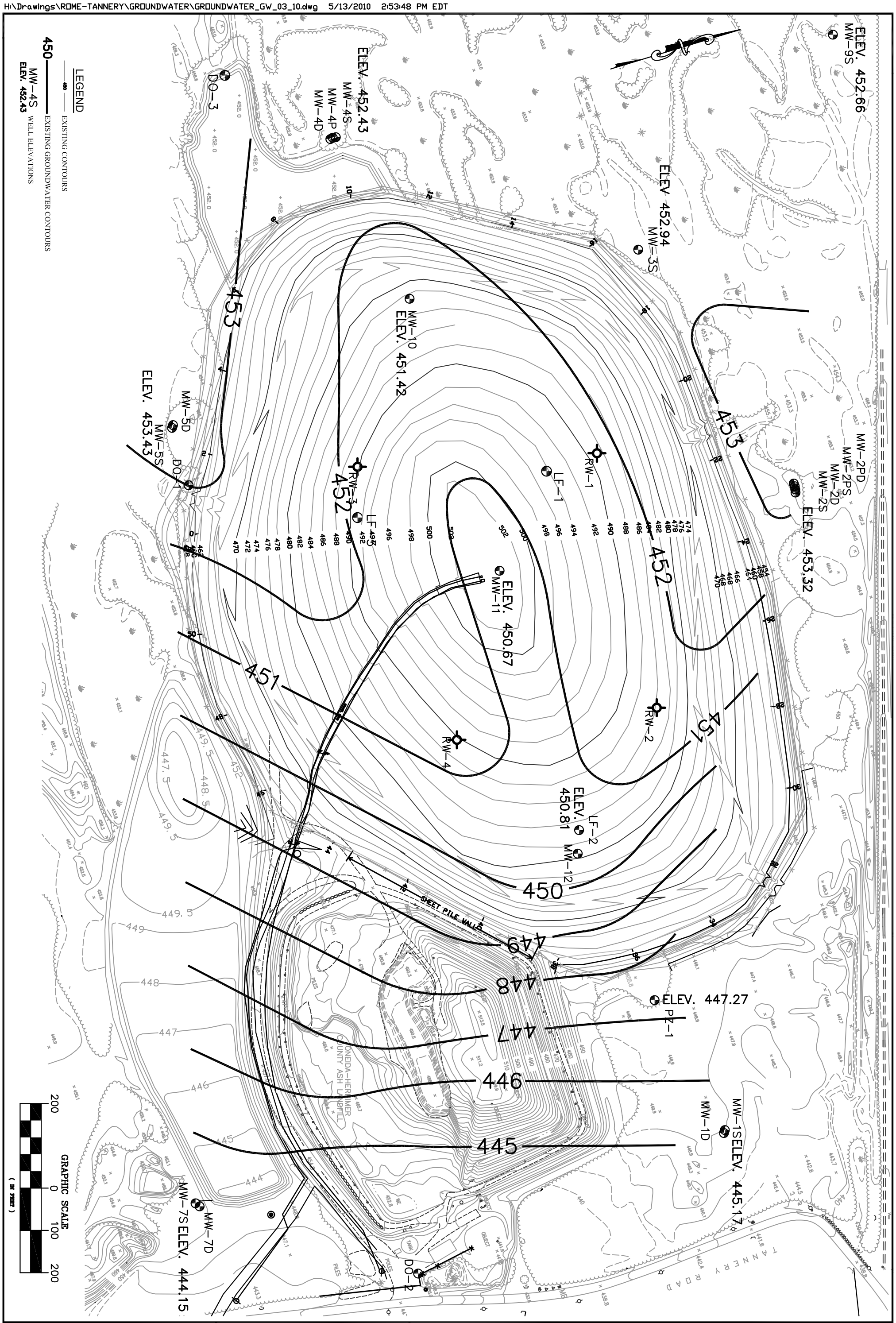
Biochemical Oxygen Demand (BOD5)	mg/L	46	78.3%	-1.94097	0.0261309	Yes	Downward
Boron	mg/L	20	95.0%	-10	0.387	No	-
Bromide	mg/L	48	91.7%	-0.924381	0.177644	No	-
Chemical Oxygen Demand	mg/L	48	8.3%	-4.66634	1.53303e-00	Yes	Downward
Chloride	mg/L	48	10.4%	-4.80856	7.6012e-007	Yes	Downward
Nitrate-Nitrogen	mg/L	48	60.4%	-3.37754	0.000365681	Yes	Downward
Sulfate	mg/L	48	0.0%	-7.34171	1.05437e-01	Yes	Downward
Total Alkalinity	mg/L	48	0.0%	-1.03993	0.149187	No	-
Total Dissolved Solids	mg/L	48	2.1%	-3.65308	0.00012955	Yes	Downward
Total Hardness	mg/L	48	0.0%	-2.79981	0.00255666	Yes	Downward
Total Kjeldahl Nitrogen	mg/L	48	8.3%	-1.06659	0.143078	No	-
Total Organic Carbon	mg/L	48	0.0%	-5.53739	1.53502e-00	Yes	Downward
Total Phenols	mg/L	48	79.2%	0.444414	0.671628	No	-
Routine Metals							
Calcium	mg/L	48	0.0%	-3.05757	0.00111571	Yes	Downward
Iron	mg/L	48	0.0%	-1.9732	0.0242366	Yes	Downward
Magnesium	mg/L	48	0.0%	-3.58197	0.00017050	Yes	Downward
Manganese	mg/L	48	2.1%	-4.99521	2.93859e-00	Yes	Downward
Potassium	mg/L	48	2.1%	-5.73294	4.93532e-00	Yes	Downward
Sodium	mg/L	48	29.2%	-4.27526	9.54572e-00	Yes	Downward
Field or Physical							
Conductivity	µmhos/cm	47	0.0%	-2.56773	0.00511839	Yes	Downward
pH	s.u.	47	0.0%	-2.62275	0.00436117	Yes	Downward
Temperature	deg C	42	0.0%	-0.682769	0.247376	No	-
Turbidity	NTU	46	0.0%	-1.2782	0.100589	No	-
MW-7D							
Leachate Indicators							
Ammonia-Nitrogen	mg/L	48	0.0%	-5.72405	5.20074e-00	Yes	Downward
Biochemical Oxygen Demand (BOD5)	mg/L	46	45.7%	-3.43694	0.000294164	Yes	Downward
Boron	mg/L	20	25.0%	-53	0.046	Yes	Downward
Bromide	mg/L	48	45.8%	-3.37754	0.000365681	Yes	Downward
Chemical Oxygen Demand	mg/L	48	0.0%	-5.41296	3.09958e-00	Yes	Downward
Chloride	mg/L	48	2.1%	-5.55517	1.3867e-008	Yes	Downward
Nitrate-Nitrogen	mg/L	48	75.0%	-3.85751	5.72737e-00	Yes	Downward
Sulfate	mg/L	48	10.4%	-5.21742	9.07177e-00	Yes	Downward
Total Alkalinity	mg/L	48	0.0%	-5.01299	2.67958e-00	Yes	Downward
Total Dissolved Solids	mg/L	48	0.0%	-5.36852	3.96932e-00	Yes	Downward
Total Hardness	mg/L	48	0.0%	-4.38192	5.88192e-00	Yes	Downward
Total Kjeldahl Nitrogen	mg/L	48	0.0%	-5.12853	1.46003e-00	Yes	Downward
Total Organic Carbon	mg/L	48	0.0%	-5.37741	3.77833e-00	Yes	Downward
Total Phenols	mg/L	47	42.6%	-4.55772	2.58565e-00	Yes	Downward
Routine Metals							
Calcium	mg/L	48	0.0%	-3.38643	0.00035403	Yes	Downward
Iron	mg/L	48	0.0%	-5.7596	4.21563e-00	Yes	Downward
Magnesium	mg/L	48	0.0%	-5.59961	1.07416e-00	Yes	Downward
Manganese	mg/L	48	2.1%	-3.89306	4.9493e-005	Yes	Downward
Potassium	mg/L	48	0.0%	-5.91959	1.61372e-00	Yes	Downward
Sodium	mg/L	48	0.0%	-5.66183	7.48832e-00	Yes	Downward
Field or Physical							
Conductivity	µmhos/cm	48	0.0%	-6.39956	7.79139e-01	Yes	Downward

Table 4
City of Rome Tannery Road Landfill
Ground Water Trend Analysis

pH	s.u.	47	0.0%	-1.95331	0.0253916	Yes	Downward
Temperature	deg C	42	0.0%	-0.0433504	0.482711	No	-
Turbidity	NTU	46	0.0%	-3.26651	0.00054440[illegible]	Yes	Downward
MW-9S							
Leachate Indicators							
Ammonia-Nitrogen	mg/L	48	22.9%	-2.0443	0.0204618	Yes	Downward
Biochemical Oxygen Demand (BOD5)	mg/L	46	58.7%	-2.60374	0.00461061	Yes	Downward
Boron	mg/L	20	85.0%	2	0.487	No	-
Bromide	mg/L	48	93.8%	-1.07548	0.14108	No	-
Chemical Oxygen Demand	mg/L	48	0.0%	-4.65746	1.60071e-00[illegible]	Yes	Downward
Chloride	mg/L	48	6.3%	-2.47094	0.00673792	Yes	Downward
Nitrate-Nitrogen	mg/L	48	72.9%	-3.14645	0.00082633	Yes	Downward
Sulfate	mg/L	48	2.1%	-1.56434	0.0588693	No	-
Total Alkalinity	mg/L	48	0.0%	-2.40872	0.00800424	Yes	Downward
Total Dissolved Solids	mg/L	48	0.0%	-3.38643	0.00035403[illegible]	Yes	Downward
Total Hardness	mg/L	48	0.0%	-3.8664	5.5227e-005	Yes	Downward
Total Kjeldahl Nitrogen	mg/L	48	8.3%	-1.39546	0.0814387	No	-
Total Organic Carbon	mg/L	48	0.0%	-7.1284	5.07726e-01[illegible]	Yes	Downward
Total Phenols	mg/L	48	83.3%	-0.097771	0.461057	No	-
Routine Metals							
Calcium	mg/L	48	0.0%	-3.83973	5.15837e-00[illegible]	Yes	Downward
Iron	mg/L	48	0.0%	-3.91084	4.59877e-00[illegible]	Yes	Downward
Magnesium	mg/L	48	0.0%	-4.12416	1.86046e-00[illegible]	Yes	Downward
Manganese	mg/L	48	0.0%	-3.96417	3.68258e-00[illegible]	Yes	Downward
Potassium	mg/L	48	2.1%	-2.8798	0.00198963	Yes	Downward
Sodium	mg/L	48	0.0%	-3.85751	5.72737e-00[illegible]	Yes	Downward
Field or Physical							
Conductivity	µmhos/cm	48	0.0%	-3.23533	0.000607507	Yes	Downward
pH	s.u.	47	0.0%	-0.962898	0.167799	No	-
Temperature	deg C	42	0.0%	-0.108376	0.456849	No	-
Turbidity	NTU	47	0.0%	-5.84158	2.58542e-00[illegible]	Yes	Downward

FIGURES

H:\Drawings\ROME-TANNERY\GROUNDWATER\GROUNDWATER_GW_03_10.dwg 5/13/2010 2:53:48 PM EDT



LEGEND

—— 450 —— EXISTING CONTOURS

450 EXISTING GROUNDWATER CONTOURS

MW-4S ELEV. 452.43 WELL ELEVATIONS

SHEET: 1

GROUNDWATER CONTOUR MAP SHALLOW OVERBURDEN DATED: MARCH 2010 GROUNDWATER TABLE

TANNERY ROAD LANDFILL
CITY OF ROME, NEW YORK

REVISIONS		
NO.	DATE	DESCRIPTION

DELAWARE ENGINEERING, P.C.
CIVIL AND ENVIRONMENTAL ENGINEERING
8-12 DIETZ STREET, SUITE 303, ONEONTA, NY 13820 - 607.432.8073
28 MADISON AVENUE EXTENSION, ALBANY, NY 12203 - 518.452.1290
6 TOWNSEND STREET, WALTON, NY 13856 - 607.865.92354

DATE: MAY 13, 2010
DRAWN BY: KJ
SCALE: AS SHOWN
REVIEWED BY: EF
PROJECT NO.:
FILE:

ELEV. 452.44
MW-9S

MW-2PD
MW-2PS
MW-2D
MW-2S
ELEV. 450.99

ELEV 452.59
MW-3S

RW-2

RW-1

LF-1

LF-2
ELEV. 450.68
MW-12

ELEV. 446.63
PZ-1

MW-1S ELEV. 443.67
MW-1D

ELEV. 450.31
MW-11

RW-4

MW-10
ELEV. 451.16

RW-3

LF-3

SHEET PILE WALL

DO-2

ELEV. 452.04
MW-4S
MW-4P
MW-4D

DO-3

MW-5D
DO-1
MW-5S
ELEV. 451.44

MW-7D
MW-7S ELEV. 442.57

LEGEND

- 480 EXISTING CONTOURS
- 450 EXISTING GROUNDWATER CONTOURS
- MW-4S ELEV. 452.04 WELL ELEVATIONS

GRAPHIC SCALE
200 0 100 200
(IN FEET)

H:\Drawings\ROME-TANNERY\GROUNDWATER\GROUNDWATER_GV_06_10.dwg 8/31/2010 10:48:29 AM EDT

DATE: AUG. 31, 2010
DRAWN BY: KJ
SCALE: AS SHOWN
REVIEWED BY: EF
PROJECT NO.:
FILE:

DELAWARE ENGINEERING, P.C.
CIVIL AND ENVIRONMENTAL ENGINEERING
910 DIETZ STREET, SUITE 303, ONEONTA, NY 13820 - 607.432.8073
28 LIBERTY STREET, SUITE 400, NEW YORK, NY 10005 - 212.962.1200
6 TOWNSEND STREET, WALTON, NY 13856 - 607.865.92354

REVISIONS

NO.	DATE	DESCRIPTION

TANNERY ROAD LANDFILL
CITY OF ROME, NEW YORK

GROUNDWATER CONTOUR MAP SHALLOW OVERBURDEN DATED: JUNE 2010 GROUNDWATER TABLE

SHEET: 1

ELEV. 451.68
MW-9S

MW-2PD
MW-2PS
MW-2D
MW-2S
ELEV. 450.26

ELEV 451.36
MW-3S

RW-2
RW-1
LF-1
LF-2
ELEV. 450.31
MW-12

ELEV. 450.41
MW-11

RW-4

MW-10
ELEV. 451.17

RW-3

ELEV. 450.34
MW-4S
MW-4P
MW-4D

DO-3

MW-5D
DO-1
MW-5S
ELEV. 449.64

ELEV. 445.2
PZ-1

MW-1S ELEV. 442.08
MW-1D

DO-2

MW-7D
MW-7S ELEV. 441.28

TANNERY ROAD

SHEET PILE WALL

ONEIDA-HERKIMER COUNTY ASH LANDFILL

LEGEND

EXISTING CONTOURS

450 EXISTING GROUNDWATER CONTOURS

MW-4S WELL ELEVATIONS
ELEV. 450.34

GRAPHIC SCALE
200 0 100 200
(IN FEET)

H:\Drawings\ROME-TANNERY\GROUNDWATER\GROUNDWATER_GV_09_10.dwg 10/20/2010 7:07:53 AM EDT

DATE: OCT. 20, 2010
DRAWN BY: KJ
SCALE: AS SHOWN
REVIEWED BY: EF
PROJECT NO.:
FILE:

DELAWARE ENGINEERING, P.C.
CIVIL AND ENVIRONMENTAL ENGINEERING
8-12 DIETZ STREET, SUITE 303, ONEONTA, NY 13820 - 607.432.8073
28 MADISON AVENUE EXTENSION, ALBANY, NY 12203 - 518.452.1290
6 TOWNSEND STREET, WALTON, NY 13856 - 607.865.92354

REVISIONS

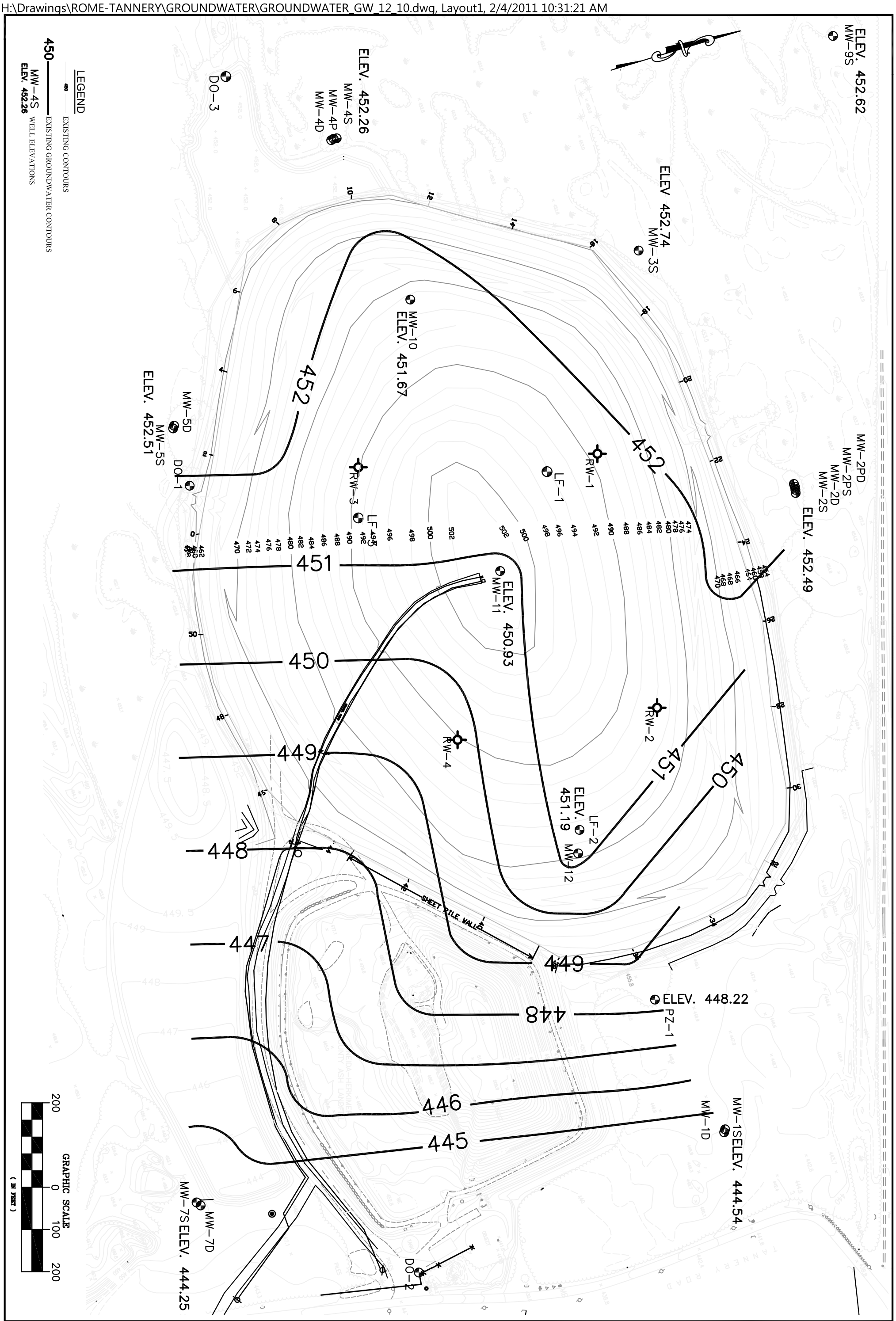
NO.	DATE	DESCRIPTION

TANNERY ROAD LANDFILL
CITY OF ROME, NEW YORK

GROUNDWATER CONTOUR MAP
SHALLOW OVERBURDEN
DATED: SEPTEMBER 2010
GROUNDWATER TABLE

SHEET: 1

H:\Drawings\ROME-TANNERY\GROUNDWATER\GROUNDWATER_GW_12_10.dwg, Layout1, 2/4/2011 10:31:21 AM



SHEET: 1

GROUNDWATER CONTOUR MAP SHALLOW OVERBURDEN DATED: DECEMBER 2010 GROUNDWATER TABLE

TANNERY ROAD LANDFILL
CITY OF ROME, NEW YORK

REVISIONS		
NO.	DATE	DESCRIPTION

DELAWARE ENGINEERING, P.C.
CIVIL AND ENVIRONMENTAL ENGINEERING
8-12 DIETZ STREET, SUITE 303, ONEONTA, NY 13820 - 607.432.8073
28 MADISON AVENUE EXTENSION, ALBANY, NY 12203 - 518.452.1290
6 TOWNSEND STREET, WALTON, NY 13856 - 607.865.92354

DATE: FEB. 4, 2011
DRAWN BY: KJ
SCALE: AS SHOWN
REVIEWED BY: EF
PROJECT NO.:
FILE:

APPENDIX A

DECEMBER 2010 LABORATORY DATA

Adirondack Environmental Services, Inc.

Experience is the solution

314 North Pearl Street ♦ Albany, New York 12207
(800) 848-4983 ♦ (518) 434-4546 ♦ Fax (518) 434-0891

January 13, 2011

Ed Fahrenkopf
Delaware Engineering
28 Madison Avenue Ext.
Albany, NY 12203

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

Work Order No: 101222005

RE: Tannery Rd Landfill

Dear Ed Fahrenkopf:

Adirondack Environmental Services, Inc received 8 samples on 12/22/2010 for the analyses presented in the following report.

Please see case narrative for specifics on analysis.

If you have any questions regarding these tests results, please feel free to call.

Sincerely,

ELAP#: 10709

Tara Daniels
Laboratory Manager

Adirondack Environmental Services, Inc — CASE NARRATIVE

CLIENT:	Delaware Engineering	**Date:** *13-Jan-11*
Project:	Tannery Rd Landfill	
Lab Order:	101222005	

Sample containers were supplied by Adirondack Environmental Services.

The result for BOD on sample MW-7D is greater than 8 mg/L, but less than 12 mg/L based on the dilutions used.

Qualifiers:

- ND - Not Detected at reporting limit
- J - Analyte detected below quantitation limit
- B - Analyte detected in Blank
- X - Exceeds maximum contamination limit
- H - Hold time exceeded
- S - LCS Spike recovery outside acceptable limits
- R - Duplication outside acceptable limits
- T - Tentatively Identified Compound-Estimated
- E -Above quantitation range-Estimated
- M - Matrix Spike outside acceptable limits
- C - Details are above in Case Narrative

Note : All Results are reported as wet weight unless noted

Adirondack Environmental Services, Inc

Date: *13-Jan-11*

CLIENT:	Delaware Engineering	**Client Sample ID:**	MW-1S
Work Order:	101222005	**Collection Date:**	12/21/2010 11:58:00 AM
Reference:	Tannery Rd Landfill /	**Lab Sample ID:**	101222005-001
PO#:		**Matrix:**	GROUNDWATER

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
HARDNESS SM 2340B (**Prep: SW3010A - 12/23/2010**)						Analyst: **KH**
Total Hardness (As CaCO3)	**6**	5		mg/L CaCO3	1	1/3/2011
ICP METALS E200.7 (**Prep: SW3010A - 12/23/2010**)						Analyst: **KH**
Cadmium	**< 0.005**	0.005		mg/L	1	1/3/2011 12:02:00 PM
Calcium	**1.90**	0.050		mg/L	1	1/3/2011 12:02:00 PM
Iron	**1.25**	0.050		mg/L	1	1/3/2011 12:02:00 PM
Lead	**< 0.005**	0.005		mg/L	1	1/3/2011 12:02:00 PM
Magnesium	**0.333**	0.050		mg/L	1	1/3/2011 12:02:00 PM
Manganese	**0.032**	0.020		mg/L	1	1/3/2011 12:02:00 PM
Potassium	**0.167**	0.050		mg/L	1	1/3/2011 12:02:00 PM
Sodium	**0.460**	0.050		mg/L	1	1/3/2011 12:02:00 PM
ANIONS BY ION CHROMATOGRAPHY E300						Analyst: **JR**
Chloride	**< 1.00**	1.00		mg/L	1	12/22/2010
Bromide	**< 1.00**	1.00		mg/L	1	12/22/2010
Nitrate, Nitrogen (As N)	**< 0.02**	0.02		mg/L	1	12/22/2010
Sulfate	**6.08**	2.00		mg/L	1	12/22/2010
ALKALINITY TO PH 4.5 SM2320 B						Analyst: **LS**
Alkalinity, Total (As CaCO3)	**3**	1		mg/L CaCO3	1	1/3/2011
AMMONIA E350.1						Analyst: **JR**
Nitrogen, Ammonia (As N)	**< 0.1**	0.1		mg/L	1	12/29/2010
BOD, 5 DAY, 20°C SM5210 B						Analyst: **SH**
Biochemical Oxygen Demand	**< 4**	4		mg/L	1	12/22/2010 4:15:00 PM
CHEMICAL OXYGEN DEMAND E410.4						Analyst: **SH**
Chemical Oxygen Demand	**13**	5		mg/L	1	1/4/2011
PHENOLS, TOTAL E420.1						Analyst: **LS**
Phenolics, Total Recoverable	**< 0.002**	0.002		mg/L	1	1/11/2011

Adirondack Environmental Services, Inc

Date: *13-Jan-11*

CLIENT:	Delaware Engineering	**Client Sample ID:**	MW-1S
Work Order:	101222005	**Collection Date:**	12/21/2010 11:58:00 AM
Reference:	Tannery Rd Landfill /	**Lab Sample ID:**	101222005-001
PO#:		**Matrix:**	GROUNDWATER

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
TOTAL DISSOLVED SOLIDS SM2540C						Analyst: **AM**
TDS (Residue, Filterable)	**28**	5		mg/L	1	12/22/2010
TOTAL KJELDAHL NITROGEN SM4500-N C						Analyst: **LS**
Nitrogen, Kjeldahl, Total	**< 1.0**	1.0		mg/L	1	1/10/2011
TOTAL ORGANIC CARBON SM 5310C						Analyst: **PL**
Total Organic Carbon	**4.0**	1.0		mg/L	1	1/3/2011

Adirondack Environmental Services, Inc

Date: *13-Jan-11*

CLIENT:	Delaware Engineering	**Client Sample ID:**	MW-2D
Work Order:	101222005	**Collection Date:**	12/21/2010 10:58:00 AM
Reference:	Tannery Rd Landfill /	**Lab Sample ID:**	101222005-002
PO#:		**Matrix:**	GROUNDWATER

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
HARDNESS SM 2340B (**Prep: SW3010A - 12/23/2010**)						Analyst: **KH**
Total Hardness (As CaCO3)	**75**	5		mg/L CaCO3	1	1/3/2011
ICP METALS E200.7 (**Prep: SW3010A - 12/23/2010**)						Analyst: **KH**
Cadmium	**< 0.005**	0.005		mg/L	1	1/3/2011 12:20:00 PM
Calcium	**24.8**	0.050		mg/L	1	1/3/2011 12:20:00 PM
Iron	**9.33**	0.050		mg/L	1	1/3/2011 12:20:00 PM
Lead	**< 0.005**	0.005		mg/L	1	1/3/2011 12:20:00 PM
Magnesium	**3.18**	0.050		mg/L	1	1/3/2011 12:20:00 PM
Manganese	**0.829**	0.020		mg/L	1	1/3/2011 12:20:00 PM
Potassium	**4.49**	0.050		mg/L	1	1/3/2011 12:20:00 PM
Sodium	**1.13**	0.050		mg/L	1	1/3/2011 12:20:00 PM
ANIONS BY ION CHROMATOGRAPHY E300						Analyst: **JR**
Chloride	**1.42**	1.00		mg/L	1	12/22/2010
Bromide	**< 1.00**	1.00		mg/L	1	12/22/2010
Nitrate, Nitrogen (As N)	**< 0.02**	0.02		mg/L	1	12/22/2010
Sulfate	**13.6**	2.00		mg/L	1	12/22/2010
ALKALINITY TO PH 4.5 SM2320 B						Analyst: **LS**
Alkalinity, Total (As CaCO3)	**80**	1		mg/L CaCO3	1	1/3/2011
AMMONIA E350.1						Analyst: **JR**
Nitrogen, Ammonia (As N)	**1.2**	0.1		mg/L	1	12/29/2010
BOD, 5 DAY, 20°C SM5210 B						Analyst: **SH**
Biochemical Oxygen Demand	**< 4**	4		mg/L	1	12/22/2010 4:15:00 PM
CHEMICAL OXYGEN DEMAND E410.4						Analyst: **SH**
Chemical Oxygen Demand	**13**	5		mg/L	1	1/4/2011
PHENOLS, TOTAL E420.1						Analyst: **LS**
Phenolics, Total Recoverable	**< 0.002**	0.002		mg/L	1	1/11/2011

Adirondack Environmental Services, Inc

Date: *13-Jan-11*

CLIENT:	Delaware Engineering	**Client Sample ID:**	MW-2D
Work Order:	101222005	**Collection Date:**	12/21/2010 10:58:00 AM
Reference:	Tannery Rd Landfill /	**Lab Sample ID:**	101222005-002
PO#:		**Matrix:**	GROUNDWATER

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
TOTAL DISSOLVED SOLIDS SM2540C						Analyst: **AM**
TDS (Residue, Filterable)	**130**	5		mg/L	1	12/22/2010
TOTAL KJELDAHL NITROGEN SM4500-N C						Analyst: **LS**
Nitrogen, Kjeldahl, Total	**1.7**	1.0		mg/L	1	1/10/2011
TOTAL ORGANIC CARBON SM 5310C						Analyst: **PL**
Total Organic Carbon	**7.8**	1.0		mg/L	1	1/3/2011

Adirondack Environmental Services, Inc

Date: *13-Jan-11*

CLIENT:	Delaware Engineering	**Client Sample ID:**	MW-3S
Work Order:	101222005	**Collection Date:**	12/21/2010 10:31:00 AM
Reference:	Tannery Rd Landfill /	**Lab Sample ID:**	101222005-003
PO#:		**Matrix:**	GROUNDWATER

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
HARDNESS SM 2340B (**Prep: SW3010A - 12/23/2010**)						Analyst: **KH**
Total Hardness (As CaCO3)	**142**	5		mg/L CaCO3	1	1/3/2011
ICP METALS E200.7 (**Prep: SW3010A - 12/23/2010**)						Analyst: **KH**
Cadmium	**< 0.005**	0.005		mg/L	1	1/3/2011 12:29:00 PM
Calcium	**71.3**	0.050		mg/L	1	1/3/2011 12:29:00 PM
Iron	**26.9**	0.050		mg/L	1	1/3/2011 12:29:00 PM
Lead	**0.006**	0.005		mg/L	1	1/3/2011 12:29:00 PM
Magnesium	**15.5**	0.050		mg/L	1	1/3/2011 12:29:00 PM
Manganese	**1.24**	0.020		mg/L	1	1/3/2011 12:29:00 PM
Potassium	**12.5**	0.050		mg/L	1	1/3/2011 12:29:00 PM
Sodium	**0.991**	0.050		mg/L	1	1/3/2011 12:29:00 PM
ANIONS BY ION CHROMATOGRAPHY E300						Analyst: **JR**
Chloride	**< 1.00**	1.00		mg/L	1	12/22/2010
Bromide	**< 1.00**	1.00		mg/L	1	12/22/2010
Nitrate, Nitrogen (As N)	**< 0.02**	0.02		mg/L	1	12/22/2010
Sulfate	**< 2.00**	2.00		mg/L	1	12/22/2010
ALKALINITY TO PH 4.5 SM2320 B						Analyst: **LS**
Alkalinity, Total (As CaCO3)	**255**	1		mg/L CaCO3	1	1/3/2011
AMMONIA E350.1						Analyst: **JR**
Nitrogen, Ammonia (As N)	**1.7**	0.1		mg/L	1	12/29/2010
BOD, 5 DAY, 20°C SM5210 B						Analyst: **SH**
Biochemical Oxygen Demand	**9**	4		mg/L	1	12/22/2010 4:15:00 PM
CHEMICAL OXYGEN DEMAND E410.4						Analyst: **SH**
Chemical Oxygen Demand	**22**	5		mg/L	1	1/4/2011
PHENOLS, TOTAL E420.1						Analyst: **LS**
Phenolics, Total Recoverable	**< 0.002**	0.002		mg/L	1	1/11/2011

Adirondack Environmental Services, Inc

Date: *13-Jan-11*

CLIENT:	Delaware Engineering	**Client Sample ID:**	MW-3S
Work Order:	101222005	**Collection Date:**	12/21/2010 10:31:00 AM
Reference:	Tannery Rd Landfill /	**Lab Sample ID:**	101222005-003
PO#:		**Matrix:**	GROUNDWATER

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
TOTAL DISSOLVED SOLIDS SM2540C						Analyst: **AM**
TDS (Residue, Filterable)	**320**	5		mg/L	1	12/22/2010
TOTAL KJELDAHL NITROGEN SM4500-N C						Analyst: **LS**
Nitrogen, Kjeldahl, Total	**3.9**	1.0		mg/L	1	1/10/2011
TOTAL ORGANIC CARBON SM 5310C						Analyst: **PL**
Total Organic Carbon	**11.9**	1.0		mg/L	1	1/3/2011

Adirondack Environmental Services, Inc

Date: *13-Jan-11*

CLIENT:	Delaware Engineering	**Client Sample ID:**	MW-4S
Work Order:	101222005	**Collection Date:**	12/21/2010 10:05:00 AM
Reference:	Tannery Rd Landfill /	**Lab Sample ID:**	101222005-004
PO#:		**Matrix:**	GROUNDWATER

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
HARDNESS SM 2340B (**Prep: SW3010A - 12/23/2010**)						Analyst: **KH**
Total Hardness (As CaCO3)	**42**	5		mg/L CaCO3	1	1/3/2011
ICP METALS E200.7 (**Prep: SW3010A - 12/23/2010**)						Analyst: **KH**
Cadmium	**< 0.005**	0.005		mg/L	1	1/3/2011 12:36:00 PM
Calcium	**11.9**	0.050		mg/L	1	1/3/2011 12:36:00 PM
Iron	**2.51**	0.050		mg/L	1	1/3/2011 12:36:00 PM
Lead	**< 0.005**	0.005		mg/L	1	1/3/2011 12:36:00 PM
Magnesium	**2.88**	0.050		mg/L	1	1/3/2011 12:36:00 PM
Manganese	**0.255**	0.020		mg/L	1	1/3/2011 12:36:00 PM
Potassium	**14.5**	0.050		mg/L	1	1/3/2011 12:36:00 PM
Sodium	**10.6**	0.050		mg/L	1	1/3/2011 12:36:00 PM
ANIONS BY ION CHROMATOGRAPHY E300						Analyst: **JR**
Chloride	**3.26**	1.00		mg/L	1	12/22/2010
Bromide	**< 1.00**	1.00		mg/L	1	12/22/2010
Nitrate, Nitrogen (As N)	**< 0.02**	0.02		mg/L	1	12/22/2010
Sulfate	**33.8**	2.00		mg/L	1	12/22/2010
ALKALINITY TO PH 4.5 SM2320 B						Analyst: **LS**
Alkalinity, Total (As CaCO3)	**65**	1		mg/L CaCO3	1	1/3/2011
AMMONIA E350.1						Analyst: **JR**
Nitrogen, Ammonia (As N)	**8.4**	1.0		mg/L	1	1/4/2011
BOD, 5 DAY, 20°C SM5210 B						Analyst: **SH**
Biochemical Oxygen Demand	**< 4**	4		mg/L	1	12/22/2010 4:15:00 PM
CHEMICAL OXYGEN DEMAND E410.4						Analyst: **SH**
Chemical Oxygen Demand	**98**	5		mg/L	1	1/5/2011
PHENOLS, TOTAL E420.1						Analyst: **LS**
Phenolics, Total Recoverable	**< 0.002**	0.002		mg/L	1	1/11/2011

Adirondack Environmental Services, Inc

Date: *13-Jan-11*

CLIENT:	Delaware Engineering	**Client Sample ID:**	MW-4S
Work Order:	101222005	**Collection Date:**	12/21/2010 10:05:00 AM
Reference:	Tannery Rd Landfill /	**Lab Sample ID:**	101222005-004
PO#:		**Matrix:**	GROUNDWATER

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
TOTAL DISSOLVED SOLIDS SM2540C						Analyst: **AM**
TDS (Residue, Filterable)	**218**	5		mg/L	1	12/22/2010
TOTAL KJELDAHL NITROGEN SM4500-N C						Analyst: **LS**
Nitrogen, Kjeldahl, Total	**9.8**	1.0		mg/L	1	1/10/2011
TOTAL ORGANIC CARBON SM 5310C						Analyst: **PL**
Total Organic Carbon	**40.8**	1.0		mg/L	1	1/3/2011

Adirondack Environmental Services, Inc

Date: *13-Jan-11*

CLIENT:	Delaware Engineering	**Client Sample ID:**	MW-5S
Work Order:	**101222005**	**Collection Date:**	12/21/2010 9:42:00 AM
Reference:	Tannery Rd Landfill /	**Lab Sample ID:**	101222005-005
PO#:		**Matrix:**	GROUNDWATER

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
HARDNESS SM 2340B (**Prep: SW3010A - 12/23/2010**)						Analyst: **KH**
Total Hardness (As CaCO3)	**113**	5		mg/L CaCO3	1	1/3/2011
ICP METALS E200.7 (**Prep: SW3010A - 12/23/2010**)						Analyst: **KH**
Cadmium	**< 0.005**	0.005		mg/L	1	1/3/2011 12:47:00 PM
Calcium	**34.6**	0.050		mg/L	1	1/3/2011 12:47:00 PM
Iron	**6.73**	0.050		mg/L	1	1/3/2011 12:47:00 PM
Lead	**< 0.005**	0.005		mg/L	1	1/3/2011 12:47:00 PM
Magnesium	**6.55**	0.050		mg/L	1	1/3/2011 12:47:00 PM
Manganese	**0.739**	0.020		mg/L	1	1/3/2011 12:47:00 PM
Potassium	**1.73**	0.050		mg/L	1	1/3/2011 12:47:00 PM
Sodium	**0.734**	0.050		mg/L	1	1/3/2011 12:47:00 PM
ANIONS BY ION CHROMATOGRAPHY E300						Analyst: **JR**
Chloride	**< 1.00**	1.00		mg/L	1	12/22/2010
Bromide	**< 1.00**	1.00		mg/L	1	12/22/2010
Nitrate, Nitrogen (As N)	**< 0.02**	0.02		mg/L	1	12/22/2010
Sulfate	**5.86**	2.00		mg/L	1	12/22/2010
ALKALINITY TO PH 4.5 SM2320 B						Analyst: **LS**
Alkalinity, Total (As CaCO3)	**135**	1		mg/L CaCO3	1	1/3/2011
AMMONIA E350.1						Analyst: **JR**
Nitrogen, Ammonia (As N)	**0.3**	0.1		mg/L	1	12/29/2010
BOD, 5 DAY, 20°C SM5210 B						Analyst: **SH**
Biochemical Oxygen Demand	**< 4**	4		mg/L	1	12/22/2010 4:15:00 PM
CHEMICAL OXYGEN DEMAND E410.4						Analyst: **SH**
Chemical Oxygen Demand	**13**	5		mg/L	1	1/5/2011
PHENOLS, TOTAL E420.1						Analyst: **LS**
Phenolics, Total Recoverable	**< 0.002**	0.002		mg/L	1	1/11/2011

Adirondack Environmental Services, Inc

Date: *13-Jan-11*

CLIENT:	Delaware Engineering	**Client Sample ID:**	MW-5S
Work Order:	101222005	**Collection Date:**	12/21/2010 9:42:00 AM
Reference:	Tannery Rd Landfill /	**Lab Sample ID:**	101222005-005
PO#:		**Matrix:**	GROUNDWATER

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
TOTAL DISSOLVED SOLIDS SM2540C						Analyst: **AM**
TDS (Residue, Filterable)	**138**	5		mg/L	1	12/22/2010
TOTAL KJELDAHL NITROGEN SM4500-N C						Analyst: **LS**
Nitrogen, Kjeldahl, Total	**1.4**	1.0		mg/L	1	1/10/2011
TOTAL ORGANIC CARBON SM 5310C						Analyst: **PL**
Total Organic Carbon	**5.6**	1.0		mg/L	1	1/3/2011

Adirondack Environmental Services, Inc

Date: *13-Jan-11*

CLIENT:	Delaware Engineering	**Client Sample ID:**	MW-7D
Work Order:	101222005	**Collection Date:**	12/21/2010 8:55:00 AM
Reference:	Tannery Rd Landfill /	**Lab Sample ID:**	101222005-006
PO#:		**Matrix:**	GROUNDWATER

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
HARDNESS SM 2340B (**Prep: SW3010A - 12/23/2010**)						Analyst: **KH**
Total Hardness (As CaCO3)	**191**	5		mg/L CaCO3	1	1/3/2011
ICP METALS E200.7 (**Prep: SW3010A - 12/23/2010**)						Analyst: **KH**
Cadmium	**< 0.005**	0.005		mg/L	1	1/3/2011 12:52:00 PM
Calcium	**52.2**	0.050		mg/L	1	1/3/2011 12:52:00 PM
Iron	**24.2**	0.050		mg/L	1	1/3/2011 12:52:00 PM
Lead	**0.007**	0.005		mg/L	1	1/3/2011 12:52:00 PM
Magnesium	**14.8**	0.050		mg/L	1	1/3/2011 12:52:00 PM
Manganese	**0.653**	0.020		mg/L	1	1/3/2011 12:52:00 PM
Potassium	**19.1**	0.050		mg/L	1	1/3/2011 12:52:00 PM
Sodium	**10.3**	0.050		mg/L	1	1/3/2011 12:52:00 PM
ANIONS BY ION CHROMATOGRAPHY E300						Analyst: **JR**
Chloride	**9.11**	1.00		mg/L	1	12/22/2010
Bromide	**< 1.00**	1.00		mg/L	1	12/22/2010
Nitrate, Nitrogen (As N)	**< 0.02**	0.02		mg/L	1	12/22/2010
Sulfate	**< 2.00**	2.00		mg/L	1	12/22/2010
ALKALINITY TO PH 4.5 SM2320 B						Analyst: **LS**
Alkalinity, Total (As CaCO3)	**275**	1		mg/L CaCO3	1	1/3/2011
AMMONIA E350.1						Analyst: **JR**
Nitrogen, Ammonia (As N)	**14.6**	1.0		mg/L	1	1/4/2011
BOD, 5 DAY, 20°C SM5210 B						Analyst: **SH**
Biochemical Oxygen Demand	**< 12**	12		mg/L	1	12/22/2010 4:15:00 PM
CHEMICAL OXYGEN DEMAND E410.4						Analyst: **SH**
Chemical Oxygen Demand	**59**	5		mg/L	1	1/5/2011
PHENOLS, TOTAL E420.1						Analyst: **LS**
Phenolics, Total Recoverable	**< 0.002**	0.002		mg/L	1	1/11/2011

Adirondack Environmental Services, Inc

Date: *13-Jan-11*

CLIENT:	Delaware Engineering	**Client Sample ID:**	MW-7D
Work Order:	101222005	**Collection Date:**	12/21/2010 8:55:00 AM
Reference:	Tannery Rd Landfill /	**Lab Sample ID:**	101222005-006
PO#:		**Matrix:**	GROUNDWATER

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
TOTAL DISSOLVED SOLIDS SM2540C						Analyst: **AM**
TDS (Residue, Filterable)	**330**	5		mg/L	1	12/23/2010
TOTAL KJELDAHL NITROGEN SM4500-N C						Analyst: **LS**
Nitrogen, Kjeldahl, Total	**17.9**	1.0		mg/L	1	1/10/2011
TOTAL ORGANIC CARBON SM 5310C						Analyst: **PL**
Total Organic Carbon	**27.8**	1.0		mg/L	1	1/3/2011

Adirondack Environmental Services, Inc

Date: *13-Jan-11*

CLIENT:	Delaware Engineering	**Client Sample ID:**	MW-9S
Work Order:	101222005	**Collection Date:**	12/21/2010 11:25:00 AM
Reference:	Tannery Rd Landfill /	**Lab Sample ID:**	101222005-007
PO#:		**Matrix:**	GROUNDWATER

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
HARDNESS SM 2340B (**Prep: SW3010A - 12/23/2010**)						Analyst: **KH**
Total Hardness (As CaCO3)	**447**	5		mg/L CaCO3	1	1/3/2011
ICP METALS E200.7 (**Prep: SW3010A - 12/23/2010**)						Analyst: **KH**
Cadmium	**< 0.005**	0.005		mg/L	1	1/3/2011 12:57:00 PM
Calcium	**126**	0.050		mg/L	1	1/3/2011 12:57:00 PM
Iron	**31.0**	0.050		mg/L	1	1/3/2011 12:57:00 PM
Lead	**0.007**	0.005		mg/L	1	1/3/2011 12:57:00 PM
Magnesium	**32.3**	0.050		mg/L	1	1/3/2011 12:57:00 PM
Manganese	**1.66**	0.020		mg/L	1	1/3/2011 12:57:00 PM
Potassium	**4.91**	0.050		mg/L	1	1/3/2011 12:57:00 PM
Sodium	**27.9**	0.050		mg/L	1	1/3/2011 12:57:00 PM
ANIONS BY ION CHROMATOGRAPHY E300						Analyst: **JR**
Chloride	**1.72**	1.00		mg/L	1	12/22/2010
Bromide	**< 1.00**	1.00		mg/L	1	12/22/2010
Nitrate, Nitrogen (As N)	**< 0.02**	0.02		mg/L	1	12/22/2010
Sulfate	**3.18**	2.00		mg/L	1	12/22/2010
ALKALINITY TO PH 4.5 SM2320 B						Analyst: **LS**
Alkalinity, Total (As CaCO3)	**235**	1		mg/L CaCO3	1	1/3/2011
AMMONIA E350.1						Analyst: **JR**
Nitrogen, Ammonia (As N)	**< 0.1**	0.1		mg/L	1	12/29/2010
BOD, 5 DAY, 20°C SM5210 B						Analyst: **SH**
Biochemical Oxygen Demand	**< 4**	4		mg/L	1	12/22/2010 4:15:00 PM
CHEMICAL OXYGEN DEMAND E410.4						Analyst: **SH**
Chemical Oxygen Demand	**34**	5		mg/L	1	1/5/2011
PHENOLS, TOTAL E420.1						Analyst: **LS**
Phenolics, Total Recoverable	**< 0.002**	0.002		mg/L	1	1/11/2011

Adirondack Environmental Services, Inc

Date: *13-Jan-11*

CLIENT:	Delaware Engineering	**Client Sample ID:**	MW-9S
Work Order:	**101222005**	**Collection Date:**	12/21/2010 11:25:00 AM
Reference:	Tannery Rd Landfill /	**Lab Sample ID:**	101222005-007
PO#:		**Matrix:**	GROUNDWATER

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
TOTAL DISSOLVED SOLIDS SM2540C						Analyst: **AM**
TDS (Residue, Filterable)	**332**	5		mg/L	1	12/23/2010
TOTAL KJELDAHL NITROGEN SM4500-N C						Analyst: **LS**
Nitrogen, Kjeldahl, Total	**< 1.0**	1.0		mg/L	1	1/10/2011
TOTAL ORGANIC CARBON SM 5310C						Analyst: **PL**
Total Organic Carbon	**18.6**	1.0		mg/L	1	1/3/2011

Adirondack Environmental Services, Inc

Date: *13-Jan-11*

CLIENT:	Delaware Engineering	**Client Sample ID:**	LMW-10
Work Order:	101222005	**Collection Date:**	12/21/2010 12:48:00 PM
Reference:	Tannery Rd Landfill /	**Lab Sample ID:**	101222005-008
PO#:		**Matrix:**	LEACHATE

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
HARDNESS SM 2340B (**Prep: SW3010A - 12/23/2010**)						Analyst: **KH**
Total Hardness (As CaCO3)	379	5		mg/L CaCO3	1	1/3/2011
ICP METALS E200.7 (**Prep: SW3010A - 12/23/2010**)						Analyst: **KH**
Cadmium	< 0.005	0.005		mg/L	1	1/3/2011 1:03:00 PM
Calcium	69.2	0.500		mg/L	10	1/3/2011 1:11:00 PM
Iron	30.2	0.500		mg/L	10	1/3/2011 1:11:00 PM
Lead	0.014	0.005		mg/L	1	1/3/2011 1:03:00 PM
Magnesium	35.0	0.500		mg/L	10	1/3/2011 1:11:00 PM
Manganese	0.759	0.020		mg/L	1	1/3/2011 1:03:00 PM
Potassium	99.2	0.500		mg/L	10	1/3/2011 1:11:00 PM
Sodium	124	0.500		mg/L	10	1/3/2011 1:11:00 PM
ANIONS BY ION CHROMATOGRAPHY E300						Analyst: **JR**
Chloride	188	10.0		mg/L	10	1/11/2011
Bromide	< 1.00	1.00		mg/L	1	12/22/2010
Nitrate, Nitrogen (As N)	< 0.02	0.02		mg/L	1	12/22/2010
Sulfate	< 2.00	2.00		mg/L	1	12/22/2010
ALKALINITY TO PH 4.5 SM2320 B						Analyst: **LS**
Alkalinity, Total (As CaCO3)	1210	1		mg/L CaCO3	1	1/3/2011
AMMONIA E350.1						Analyst: **JR**
Nitrogen, Ammonia (As N)	158	10.0		mg/L	1	1/4/2011
BOD, 5 DAY, 20°C SM5210 B						Analyst: **SH**
Biochemical Oxygen Demand	35	12		mg/L	1	12/22/2010 4:15:00 PM
CHEMICAL OXYGEN DEMAND E410.4						Analyst: **SH**
Chemical Oxygen Demand	258	5		mg/L	1	1/6/2011
PHENOLS, TOTAL E420.1						Analyst: **LS**
Phenolics, Total Recoverable	0.010	0.002		mg/L	1	1/11/2011

Adirondack Environmental Services, Inc

Date: *13-Jan-11*

CLIENT:	Delaware Engineering	**Client Sample ID:**	LMW-10
Work Order:	101222005	**Collection Date:**	12/21/2010 12:48:00 PM
Reference:	Tannery Rd Landfill /	**Lab Sample ID:**	101222005-008
PO#:		**Matrix:**	LEACHATE

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
TOTAL DISSOLVED SOLIDS SM2540C						Analyst: **AM**
TDS (Residue, Filterable)	1090	5	X	mg/L	1	12/23/2010
TOTAL KJELDAHL NITROGEN SM4500-N C						Analyst: **LS**
Nitrogen, Kjeldahl, Total	171	1.0		mg/L	1	1/10/2011
TOTAL ORGANIC CARBON SM 5310C						Analyst: **PL**
Total Organic Carbon	66.6	1.0		mg/L	1	1/3/2011

APPENDIX B

HISTORICAL ANALYTICAL DATA SUMMARY TABLES

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

Date	NYSDEC Ground Water Standard	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	12/16/04
Field Parameter																									
Conductivity (µmhos/cm)	NS	31	103	398	89	39	39	31	23	23	34	62	37	75	67	190	58	376	21	180	20	24	35	44	73
pH (s.u.)	6.5 - 8.5	8.64	**5.97**	**6.37**	7	**5.85**	7.88	**6.45**	**5.27**	**6.18**	**4.95**	**5.89**	**6.23**	7.7	6.5	7.42		7.5	**4.9**	**6.24**	6.5	**5.22**	**5.11**	**5.3**	**6.2**
Temperature (deg C)	NS	3.2	13.3	15.2	5.9	4.2	13	15.3		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	7
Turbidity (NTU)	5	**785**	**925**	**560**	**140**	**222**	**161**	**527**	**195**	**316**	**186**	**88**	**90**	**145**	**68**	**126**	**8**	**65**	**556**	**52**	**50**	**113**	**73**	**29**	**140**
Dissolved Oxygen (mg/L)	NS																								
Redox	NS																								
Part 360 Leachate Indicator Parameters																									
Ammonia-Nitrogen (mg/L)	2	<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	1.1	<0.030	0.14	<0.03	0.38	<0.03	<0.030	0.059	0.14	<0.03
Biochemical Oxygen Demand (BOD5) (mg/L)	NS	8	<4.0	<2.0	2	<2.0	30	<2.0	<4.0		<4.0	<4.0	<4.0	<4.0	4.6	12	<4.0	8.6	<4	<4.0	<4	<4.0	<4	<4	<4
Boron (mg/L)	1		<0.100				<0.5	<0.5			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5			<0.5	<0.5	<0.5	<0.5		<0.01	
Bromide (mg/L)	2	<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	0.12	<0.100	<0.1	<0.1	<0.1	<0.1	<0.1	<0.10	<0.1	<0.1
Chemical Oxygen Demand (mg/L)	NS	52	100	25	14	12	6.7	96	19	36	26	34	14	24	45	66	9.9	<1.0	33	25	35	18	27	7.9	9.7
Chloride (mg/L)	250	<1.0	31	28	3.7	2.3	**450**	3.3	2.5	2.9	2.4	3.8	2.5	2.7	2.7	6.4	2.6	36	3.8	8.2	2.5	3.4	3.3	2.5	2.7
Color (Pt-Co)	15		46					**30**					**50**	**20**					8					**180**	
Nitrate-Nitrogen (mg/L)	10	<0.2	<0.2	<0.2	0.4	0.3	0.18	0.1	<0.100	0.15	0.15	0.16	<0.100	0.15	<0.100	0.13	0.14	<0.1	0.15	<0.1	<0.1	0.16	0.17	0.14	<0.1
Sulfate (mg/L)	250	5	10	94	9.8	7.7	4.7	9.7	6.9	6.7	6.8	17	6.2	7	6	13	6.2	<1.0	7.9	15	6.9	7.4	8.2	7.1	6.6
Total Alkalinity (mg/L)	NS	<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	4
Total Cyanide (mg/L)	0.2		<0.010					<0.010					<0.010	<0.010					<0.01					0.01	
Total Dissolved Solids (mg/L)	500	140	140	260	39	30	**1,900**	26	<4.0	14	56	190	<4.0	170	26	120	42	280	30	120	34	32	20	52	14
Total Hardness (mg/L)	NS	19	120	136	14	23	8	16	7.7	10	8.6	20	9.8	6.6	7.3	60	7.6	210	12	58	<7	7.8	3.7	5.4	<7
Total Kjeldahl Nitrogen (mg/L)	NS	<0.5	2.4	1.3	<0.3	0.6	0.3	1.3	0.39	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	0.2
Total Organic Carbon (mg/L)	NS	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	10	14	4.1	8.6	3	3.2
Total Phenols (mg/L)	0.001	<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	**0.012**	**0.003**	<0.002	**0.0046**	<0.002	<0.002	**0.0034**	<0.002	<0.002	<0.002	<0.002
Part 360 Routine Metals																									
Cadmium (mg/L)	0.005	<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	<0.01	<0.01	<0.01	<0.01	<0.010	<0.01	<0.01	<0.01
Calcium (mg/L)	NS	3.26	29.1	43.2	4.2	6.7	1.5	3.1	1.4	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	0.73
Iron (mg/L)	0.3*	**16.3**	**30.5**	**33.1**	**3.1**	**4.3**	**1.9**	**17**	**6.3**	**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**	0.16
Lead (mg/L)	0.025	0.012	**0.029**	0.01	<0.005	<0.005	<0.010	0.011	<0.010	<0.010	<0.010	<0.010	<1.0	<0.010	<0.010	0.02	<0.010	<0.01	<0.01	0.012	<0.01	<0.010	<0.01	<0.01	<0.01
Magnesium (mg/L)	35 (GV)	2.7	11.2	6.8	0.94	1.5	<1.0	2	1	1.3	1	1.5	<1.0	<1.0	<1.0	3.9	<1.0	14	<1.0	3.3	<1	<1.0	<1	<1	0.25
Manganese (mg/L)	0.3*	0.257	**0.759**	**1.2**	0.17	0.12	0.04	0.23	0.075	0.11	0.093	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	0.014
Potassium (mg/L)	NS	1.99	5.39	2.9	0.7	3.3	<1.0	1.2	<1.0	1.1	<1.0	1.2	<1.0	<1.0	<1.0	3.1	<1.0	1.2	<1.0	2.7	<1	<1.0	<1	<1	0.27
Sodium (mg/L)	20	1.2	12.2	9.9	1.8	8.8	1.6	1.2	<1.0	1.2	<1.0	7.5	1.2	2.8	<1.0	4.9	<1.0	12	1.7	12	<1	1.1	1.2	1.2	0.74
Part 360 Additional Baseline Metals																									
Aluminum (mg/L)	NS		32					25					5	8.9					3					2.1	
Antimony (mg/L)	0.003		<0.015					**0.012**					<0.010	<0.010					<0.01					<0.01	
Arsenic (mg/L)	0.025		0.018					<0.010					<0.010	<0.010					0.013					<0.01	
Barium (mg/L)	1		0.431					<0.2					<0.2	<0.2					<0.2					<0.2	
Beryllium (mg/L)	0.003 (GV)		<0.003					<0.010					<0.010	<0.010					<0.01					<0.01	
Chromium (mg/L)	0.05		0.047					0.01					<0.010	<0.010					<0.01					<0.01	
Chromium, Hexavalent (mg/L)	0.05		<0.010					<0.010					<0.010	<0.010					<0.01					<0.01	
Cobalt (mg/L)	NS		<0.020					<0.010					<0.010	<0.010					<0.01					<0.01	
Copper (mg/L)	0.2		0.041					0.022					<0.010	<0.010					0.012					<0.01	
Mercury (mg/L)	0.0007		<0.0002					0.00053					<0.0002	0.000300					<0.0002					<0.0002	
Nickel (mg/L)	0.1		0.039					0.012					<0.010	<0.010					<0.01					<0.01	
Selenium (mg/L)	0.01		<0.005					<0.010					<0.010	<0.010					<0.01					<0.01	
Silver (mg/L)	0.05		<0.010					<0.010					<0.010	<0.010					<0.01					<0.01	
Thallium (mg/L)	0.0005 (GV)		<0.010					<0.010					<0.010	<0.010					<0.01					<0.01	
Vanadium (mg/L)	NS		0.031					0.012					<0.010	<0.010					<0.01					<0.01	
Zinc (mg/L)	2		0.149					0.1					0.04	0.033					0.094					0.022	
Part 360 Volatile Organics																									
1,1,1,2-Tetrachloroethane (µg/L)	5		<5.0					<5.0					<5.0	<5.0					<5					<1	
1,1,1-Trichloroethane (µg/L)	5		<5.0					<5.0					<5.0	<5.0				<5	<5					<1	
1,1,2,2-Tetrachloroethane (µg/L)	5		<5.0					<5.0					<5.0	<5.0				<5	<5					<1	
1,1,2-Trichloroethane (µg/L)	1		<5.0					<5.0					<5.0	<5.0				<5	<5					<1	
1,1-Dichloroethane (µg/L)	5		<5.0					<5.0					<5.0	<5.0				<5	<5					<1	
1,1-Dichloroethene (µg/L)	5		<5.0					<5.0					<5.0	<5.0				<5	<5					<1	
1,2,3-Trichloropropane (µg/L)	0.04												<5.0	<5.0					<5					<1	
1,2-Dibromo-3-chloropropane (µg/L)	0.04		<10.0					<5.0					<5.0	<5.0					<5					<1	
1,2-Dibromoethane (EDB) (µg/L)	5		<5.0					<5.0					<5.0	<5.0					<5					<1	
1,2-Dichlorobenzene (µg/L)	3		<5.0					<5.0					<5.0	<5.0					<5					<1	

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Date	NYSDEC Ground Water Standard	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	12/16/04
1,2-Dichloroethane (µg/L)	0.6		<5.0					<5.0					<5.0	<5.0				<5	<5					<1	
1,2-Dichloropropane (µg/L)	1		<5.0					<5.0					<5.0	<5.0				<5	<5					<1	
1,4-Dichlorobenzene (µg/L)	3		<5.0					<10.0					<10.0	<10.0					<5					<1	
2-Butanone (MEK) (µg/L)	50 (GV)		<10.0					<10.0					<10.0	<10.0				<10	<10					<10	
2-Hexanone (µg/L)	50 (GV)		<10.0					<10.0					<10.0	<10.0				<10	<10					<10	
4-Methyl 2-pentanone (µg/L)	NS		<10.0					<10.0					<20.0	<20.0				<10	<10					<10	
Acetone (µg/L)	50 (GV)		<10.0					<20.0					<5.0	<5.0				11	<10					<10	
Acrylonitrile (µg/L)	5		<100					<5.0					<5.0	<5.0					<20					<5	
Benzene (µg/L)	1		<5.0					<5.0					<5.0	<5.0				<5	<5					<1	
Bromochloromethane (µg/L)	5		<5.0					<5.0					<5.0	<5.0					<5					<1	
Bromodichloromethane (µg/L)	50 (GV)		<5.0					<5.0					<5.0	<5.0				<5	<5					<1	
Bromoform (µg/L)	50 (GV)		<5.0					<5.0					<5.0	<5.0				<5	<5					<1	
Bromomethane (µg/L)	5		<5.0					<5.0					<5.0	<5.0				<5	<5					<1	
Carbon disulfide (µg/L)	60 (GV)		<5.0					<5.0					<5.0	<5.0				<5	<5					<1	
Carbon tetrachloride (µg/L)	5		<5.0					<5.0					<5.0	<5.0				<5	<5					<1	
Chlorobenzene (µg/L)	5		<5.0					<5.0					<5.0	<5.0				<5	<5					<1	
Chloroethane (µg/L)	5		<5.0					<5.0					<5.0	<5.0				<5	<5					<1	
Chloroform (µg/L)	7		<5.0					<5.0					<5.0	<5.0				<5	<5					<1	
Chloromethane (µg/L)	5		<5.0					<5.0					<5.0	<5.0				<5	<5					<1	
cis-1,2-Dichloroethene (µg/L)	5		<5.0					<5.0					<5.0	<5.0					<5					<1	
cis-1,3-Dichloropropene (µg/L)	0.4**		<5.0					<5.0					<5.0	<5.0				<5	<5					<1	
Dibromochloromethane (µg/L)	50 (GV)		<5.0					<5.0					<5.0	<5.0				<5	<5					<1	
Dibromomethane (µg/L)	5		<5.0					<20.0					<20.0	<10.0					<5					<1	
Ethyl benzene (µg/L)	5		<5.0					<10.0					<10.0	<10.0				<5	<5					<1	
Iodomethane (µg/L)	5		<5.0					<5.0					<5.0	<5.0					<10					<10	
Methylene Chloride (µg/L)	5		<5.0					<5.0					<5.0	<5.0				<10	<10					<10	
Styrene (µg/L)	5							<5					<5	<5				<5	<5					<1	
Tetrachloroethene (µg/L)	5		<5.0					<5.0					<5.0	<5.0				<5	<5					<1	
Toluene (µg/L)	5		<5.0					<5.0					<5.0	<5.0				<5	<5					<1	
trans-1,2-Dichloroethene (µg/L)	5		<5.0					<5.0					<5.0	<5.0					<5					<1	
trans-1,3-Dichloropropene (µg/L)	0.4**		<5.0					<50.0					<50.0	<10.0				<5	<5					<1	
trans-1,4-Dichloro-2-butene (µg/L)	5							<50					<50	<10					<10					<10	
Trichloroethene (µg/L)	5		<5.0					<5.0					<5.0	<5.0				<5	<5					<1	
Trichlorofluoromethane (µg/L)	5		<5.0					<5.0					<5.0	<5.0					<5					<1	
Vinyl Acetate (µg/L)	NS		<50.0					<20.0					<20.0	<20.0					<20					<5	
Vinyl Chloride (µg/L)	2		<5.0					<5.0					<5.0	<5.0				<5	<5					<1	
Xylenes (Total) (µg/L)	5		<5.0					<5.0					<5.0	<5.0				<5	<5					<1	
1,2-Dichloroethene - Total	5																	<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

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Date	NYSDEC Ground Water Standard	03/22/05	06/28/05	09/27/05	12/06/05	03/28/06	06/28/06	09/26/06	12/13/06	03/15/07	06/21/07	09/25/07	12/17/07	3/27/2008	6/19/2008	9/23/2008	12/15/20008	3/17/2009	6/22/2009	9/25/2009	12/14/2009
Field Parameter																					
Conductivity (µmhos/cm)	NS	51	71	130	40	20	230	47	20	19	23	62	18	18	18	44	152	18	28	76	17
pH (s.u.)	6.5 - 8.5	6.66	**6.2**	6.8	7.4	**5.9**	**6.2**	7.07	**5.64**	**5.02**	**5.44**	**5.7**	**5.34**	**5.43**	**5.23**	**6.26**	6.84	**5.58**	**5.16**	**5.75**	6.75
Temperature (deg C)	NS	4.3		12	6	5	16	13.6	8.6	3.7	12.5	12.5	5.6	4.6	11.6	13.7	5.7	4.3	12	12	7
Turbidity (NTU)	5	**124**	**120**	**5**	**68**	**218**	3	-	**65**	0	**119**	**116**	**57**	**30**	**83**	4	4	**50**	**18**	**91**	**10**
Dissolved Oxygen (mg/L)	NS										7.58										
Redox	NS										63										
Part 360 Leachate Indicator Parameters																					
Ammonia-Nitrogen (mg/L)	2	0.09	<0.03	1.3	<0.03	0.046	<0.030	0.27	0.054	<0.03	0.85	0.3	<0.03	0.085	<0.03	0.55	<0.03	<0.03	0.044	0.38	<0.030
Biochemical Oxygen Demand (BOD5) (mg/L)	NS	<4.0	<4.0	<4.0	<4	<4	<4.0	<4	<4	<4	<4	6	<4	<5	<4	<4	<4	<4	<4	<4.0	<4.0
Boron (mg/L)	1				<0.5	<0.5					<0.5					<0.5					<0.5
Bromide (mg/L)	2	<0.1	<0.1	0.14	<0.1	<0.1	<0.10	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<01	<0.1	<0.1	<0.1	<0.1	<0.1
Chemical Oxygen Demand (mg/L)	NS	22	27	30	15	12	<5.0	23	11	9.6	11	31	14	<5	<5	<5	25	<5	<5	16	<5.0
Chloride (mg/L)	250	2.1	2.7	4.1	<1.0	<0.01	2.3	4.5	3.2	2.4	3.4	4.4	3.4	<2	2.9	2.5	2.8	2.9	2.6	2.7	2.5
Color (Pt-Co)	15				**160**	**100**					**80**					**30**					<5
Nitrate-Nitrogen (mg/L)	10	<0.1	0.12	0.18	<0.1	<0.1	<0.10	0.11	<0.1	<0.1	<0.1	0.11	<0.1	0.048	0.15	0.22	<0.1	<0.1	<0.1	0.25	<0.1
Sulfate (mg/L)	250	7.3	6.8	6.4	6.6	9	6.1	8.2	7.5	7.8	8.8	4.9	6.3	5.5	7.2	6.7	5.8	<1	6.2	6.5	6
Total Alkalinity (mg/L)	NS	4	3	48	1	2	2	46	4	2	4	18	<1	3	4	13	2	2	<3	19	<3.0
Total Cyanide (mg/L)	0.2				<0.01	<0.01					0.011					<0.01					<0.01
Total Dissolved Solids (mg/L)	500	14	50	88	36	20	20	54	34	12	52	74	12	<10	32	90	20	20	<10	40	<10
Total Hardness (mg/L)	NS	<7.0	7	7	6.3	<7	<7.0	26	<7	<7	33	25	<7	<7	<7	12	<7	<7	<7	26	<7.0
Total Kjeldahl Nitrogen (mg/L)	NS	0.32	0.66	0.66	0.27	0.17	0.37	0.73	0.32	0.2	1.1	1	0.35	0.18	2.4	1.2	0.4	0.2	0.21	1.1	0.35
Total Organic Carbon (mg/L)	NS	5.5	8.3	11	3.4	6.3	3.8	7.8	3.1	2.4	3.1	11	4.8	2.5	4.2	6.5	2	3.6	2.6	18	3.2
Total Phenols (mg/L)	0.001	<0.010	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.05	<0.002	<0.003	<0.003	<0.003	<0.003	<0.003	**0.0039**	<0.003	<0.003	<0.003	**0.0043**	<0.003
Part 360 Routine Metals																					
Cadmium (mg/L)	0.005	<0.01	<0.01	<0.01	<0.01	<0.01	<0.010	<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
Calcium (mg/L)	NS	<1.0	2.8	15	1.7	1.5	<1.0	8.1	1.2	<1	3.5	8.1	1.3	1.2	1.4	5	<1	1.1	70	8.1	<1.0
Iron (mg/L)	0.3*	**4.2**	**5.9**	**13**	**3.2**	**1.9**	**1.9**	**5.1**	**0.54**	**2.2**	**2**	**17**	**3.3**	**2.5**	**1.7**	**3.6**	**1.5**	**1.3**	**41**	**5.7**	**1.7**
Lead (mg/L)	0.025	<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	0.017	<0.010	<0.01
Magnesium (mg/L)	35 (GV)	<1.0	<1.0	2.6	<1	<1	<1.0	1.3	<1	<1	<1	1.1	<1	<1	<1	<1	<1	<1	16	1.4	<1.0
Manganese (mg/L)	0.3*	0.049	0.1	**0.54**	0.046	<0.01	0.033	<0.01	0.063	0.041	0.14	**0.62**	0.074	0.06	0.058	**0.36**	0.018	0.042	**0.73**	**0.31**	0.02
Potassium (mg/L)	NS	<1.0	<1.0	2.9	<1	<1	<1.0	1.6	<1	<1	1.2	1.2	<1	<1	<1	0.83	6	<1	28	<1.0	<1.0
Sodium (mg/L)	20	<1.0	<1.0	2.5	1	1.1	1.3	<1	<1	1	2.5	<1	<1	<1	<1	<1	1.1	<1	**31**	<1.0	<1.0
Part 360 Additional Baseline Metals																					
Aluminum (mg/L)	NS				2.8	3.3					1.6					2.3					1.3
Antimony (mg/L)	0.003				<0.01	<0.01					<0.01					<0.01					<0.01
Arsenic (mg/L)	0.025				<0.01	<0.01					<0.01					<0.01					<0.01
Barium (mg/L)	1				<0.1	<0.2					<0.2					<0.2					<0.1
Beryllium (mg/L)	0.003 (GV)				<0.01	<0.01					<0.01					<0.01					<0.01
Chromium (mg/L)	0.05				<0.01	<0.01					<0.01					<0.01					<0.01
Chromium, Hexavalent (mg/L)	0.05				<0.01	**3.3**					<0.01					<0.01					<0.01
Cobalt (mg/L)	NS				<0.01	<0.01					<0.01					<0.01					<0.01
Copper (mg/L)	0.2				<0.01	<0.01					<0.04					<0.01					<0.01
Mercury (mg/L)	0.0007				0.00042	<0.0002					<0.0002					<0.0002					<0.0002
Nickel (mg/L)	0.1				<0.01	<0.01					<0.01					<0.01					<0.01
Selenium (mg/L)	0.01				<0.01	<0.01					<0.01					<0.01					<0.01
Silver (mg/L)	0.05				<0.01	<0.01					0.038					<0.01					<0.01
Thallium (mg/L)	0.0005 (GV)				**0.02**	**0.024**					<0.01					<0.01					<0.02
Vanadium (mg/L)	NS				<0.01	<0.01					<0.01					<0.01					<0.01
Zinc (mg/L)	2				0.027	0.021					<0.43					0.041					0.024
Part 360 Volatile Organics																					
1,1,1,2-Tetrachloroethane (µg/L)	5				<1	<1					<1.0					<1					<1
1,1,1-Trichloroethane (µg/L)	5				<1	<1					<1.0					<1					<1
1,1,2,2-Tetrachloroethane (µg/L)	5				<1	<1					<1.0					<1					<1
1,1,2-Trichloroethane (µg/L)	1				<1	<1					<1.0					<1					<1
1,1-Dichloroethane (µg/L)	5				<1	<1					<1.0					<1					<1
1,1-Dichloroethene (µg/L)	5				<1	<1					<1.0					<1					<1
1,2,3-Trichloropropane (µg/L)	0.04				<1	<1					<1.0					<1					<1
1,2-Dibromo-3-chloropropane (µg/L)	0.04				<1	<1					<1.0					<1					<1
1,2-Dibromoethane (EDB) (µg/L)	5				<1	<1					<1.0					<1					<1
1,2-Dichlorobenzene (µg/L)	3				<1	<1					<1.0					<1					<1

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Date	NYSDEC Ground Water Standard	03/22/05	06/28/05	09/27/05	12/06/05	03/28/06	06/28/06	09/26/06	12/13/06	03/15/07	06/21/07	09/25/07	12/17/07	3/27/2008	6/19/2008	9/23/2008	12/15/20008	3/17/2009	6/22/2009	9/25/2009	12/14/2009
1,2-Dichloroethane (µg/L)	0.6				<1	<1					<1.0					<1					<1
1,2-Dichloropropane (µg/L)	1				<1	<1					<1.0					<1					<1
1,4-Dichlorobenzene (µg/L)	3				<1	<1					<1.0					<1					<1
2-Butanone (MEK) (µg/L)	50 (GV)				<5	<5					<5.0					<10					<10
2-Hexanone (µg/L)	50 (GV)				<5	<5					<5.0					<10					<10
4-Methyl 2-pentanone (µg/L)	NS				<5	<5					<5.0					<10					<10
Acetone (µg/L)	50 (GV)				<10	<5					<5.0					<10					<10
Acrylonitrile (µg/L)	5				<20	<20					<20					<20					<20
Benzene (µg/L)	1				<1	<1					<1.0					<1					<1
Bromochloromethane (µg/L)	5				<1	<1					<1.0					<1					<1
Bromodichloromethane (µg/L)	50 (GV)				<1	<1					<1.0					<1					<1
Bromoform (µg/L)	50 (GV)				<1	<1					<1.0					<1					<1
Bromomethane (µg/L)	5				<1	<1					<1.0					<1					<1
Carbon disulfide (µg/L)	60 (GV)				<1	<1					<1.0					<1					<1
Carbon tetrachloride (µg/L)	5				<1	<1					<1.0					<1					<1
Chlorobenzene (µg/L)	5				<1	<1					<1.0					<1					<1
Chloroethane (µg/L)	5				<1	<1					<1.0					<1					<1
Chloroform (µg/L)	7				<1	<1					<1.0					<1					<1
Chloromethane (µg/L)	5				<1	<1					<1.0					<1					<1
cis-1,2-Dichloroethene (µg/L)	5				<1	<1					<1.0					<1					<1
cis-1,3-Dichloropropene (µg/L)	0.4**				<1	<1					<1.0					<1					<1
Dibromochloromethane (µg/L)	50 (GV)				<1	<1					<1.0					<1					<1
Dibromomethane (µg/L)	5				<1	<1					<1.0					<1					<1
Ethyl benzene (µg/L)	5				<1	<1					<1.0					<1					<1
Iodomethane (µg/L)	5				<5	<5					<5.0					<5					<5
Methylene Chloride (µg/L)	5				<5	<1					<1.0					<1					<1
Styrene (µg/L)	5				<1	<1					<1.0					<1					<1
Tetrachloroethene (µg/L)	5				<1	<1					<1.0					<1					<1
Toluene (µg/L)	5				<1	<1					<1.0					<1					<1
trans-1,2-Dichloroethene (µg/L)	5				<1	<1					<1.0					<1					<1
trans-1,3-Dichloropropene (µg/L)	0.4**				<1	<1					<1.0					<1					<1
trans-1,4-Dichloro-2-butene (µg/L)	5				<5	<5					<5.0					<5					<5
Trichloroethene (µg/L)	5				<1	<1					<1.0					<1					<1
Trichlorofluoromethane (µg/L)	5				<1	<1					<1.0					<1					<1
Vinyl Acetate (µg/L)	NS				<5	<5					<5.0					<5					<5
Vinyl Chloride (µg/L)	2				<1	<1					<1.0					<1					<1
Xylenes (Total) (µg/L)	5				<1	<1					<1.0					<1					<1
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

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Ground Water Analtyical Data

Date	NYSDEC Ground Water Standard	3/24/2010	6/23/2010	9/22/2010	12/21/2010
Field Parameter					
Conductivity (µmhos/cm)	NS	25	14	43	19
pH (s.u.)	6.5 - 8.5	**5.98**	6.66	6.74	**5.69**
Temperature (deg C)	NS	5.3	12.1	13.6	5.8
Turbidity (NTU)	5	**59**	**16**	**88**	0
Dissolved Oxygen (mg/L)	NS				
Redox	NS				
Part 360 Leachate Indicator Parameters					
Ammonia-Nitrogen (mg/L)	2	<0.1	<0.1	0.2	<0.1
Biochemical Oxygen Demand (BOD5) (mg/L)	NS	<2.0	<2.0	<4.0	<4.0
Boron (mg/L)	1	0.002			
Bromide (mg/L)	2	<1.0	<1.0	<1.0	<1.0
Chemical Oxygen Demand (mg/L)	NS	21.4	<5.0	22	13
Chloride (mg/L)	250	1.2	<1.0	<1.0	<1.0
Color (Pt-Co)	15	<5.0			
Nitrate-Nitrogen (mg/L)	10	<0.020	<0.020	0.08	<0.02
Sulfate (mg/L)	250	4.6	4.45	6.12	6.08
Total Alkalinity (mg/L)	NS	2	3	12	3
Total Cyanide (mg/L)	0.2	<0.010			
Total Dissolved Solids (mg/L)	500	20	107	30	28
Total Hardness (mg/L)	NS	3	<5.0	16	6
Total Kjeldahl Nitrogen (mg/L)	NS	<1.0	<1.0	<1.0	<1.0
Total Organic Carbon (mg/L)	NS	5.7	3.7	9.6	4
Total Phenols (mg/L)	0.001	<0.002	<0.002	<0.002	<0.002
Part 360 Routine Metals					
Cadmium (mg/L)	0.005	0.00027	<0.005	<0.005	<0.005
Calcium (mg/L)	NS	0.572	0.572	5.12	1.9
Iron (mg/L)	0.3*	**1.91**	**2.43**	**7.35**	**1.25**
Lead (mg/L)	0.025	<0.002	<0.005	<0.005	<0.005
Magnesium (mg/L)	35 (GV)	0.351	0.38	0.717	0.333
Manganese (mg/L)	0.3*	0.02	0.025	0.221	0.032
Potassium (mg/L)	NS	0.179	0.242	0.591	0.167
Sodium (mg/L)	20	0.431	0.432	0.518	0.46
Part 360 Additional Baseline Metals					
Aluminum (mg/L)	NS	1.87			
Antimony (mg/L)	0.003	<0.020			
Arsenic (mg/L)	0.025	<0.002			
Barium (mg/L)	1	0.007			
Beryllium (mg/L)	0.003 (GV)	<0.00014			
Chromium (mg/L)	0.05	<0.005			
Chromium, Hexavalent (mg/L)	0.05	<0.020			
Cobalt (mg/L)	NS	0.001			
Copper (mg/L)	0.2	<0.003			
Mercury (mg/L)	0.0007	<0.00007			
Nickel (mg/L)	0.1	0.001			
Selenium (mg/L)	0.01	<0.003			
Silver (mg/L)	0.05	<0.003			
Thallium (mg/L)	0.0005 (GV)	**0.004**			
Vanadium (mg/L)	NS	<0.005			
Zinc (mg/L)	2	0.01			
Part 360 Volatile Organics					
1,1,1,2-Tetrachloroethane (µg/L)	5	<5.0			
1,1,1-Trichloroethane (µg/L)	5	<5.0			
1,1,2,2-Tetrachloroethane (µg/L)	5	<5.0			
1,1,2-Trichloroethane (µg/L)	1	<5.0			
1,1-Dichloroethane (µg/L)	5	<5.0			
1,1-Dichloroethene (µg/L)	5	<5.0			
1,2,3-Trichloropropane (µg/L)	0.04	<5.0			
1,2-Dibromo-3-chloropropane (µg/L)	0.04	<10			
1,2-Dibromoethane (EDB) (µg/L)	5	<5.0			
1,2-Dichlorobenzene (µg/L)	3	<5.0			

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Date	NYSDEC Ground Water Standard	3/24/2010	6/23/2010	9/22/2010	12/21/2010
1,2-Dichloroethane (µg/L)	0.6	<5.0			
1,2-Dichloropropane (µg/L)	1	<5.0			
1,4-Dichlorobenzene (µg/L)	3	<5.0			
2-Butanone (MEK) (µg/L)	50 (GV)	<10			
2-Hexanone (µg/L)	50 (GV)	<10			
4-Methyl 2-pentanone (µg/L)	NS	<10			
Acetone (µg/L)	50 (GV)	<10			
Acrylonitrile (µg/L)	5	<25			
Benzene (µg/L)	1	<5.0			
Bromochloromethane (µg/L)	5	<5.0			
Bromodichloromethane (µg/L)	50 (GV)	<5.0			
Bromoform (µg/L)	50 (GV)	<5.0			
Bromomethane (µg/L)	5	<10			
Carbon disulfide (µg/L)	60 (GV)	<5.0			
Carbon tetrachloride (µg/L)	5	<5.0			
Chlorobenzene (µg/L)	5	<5.0			
Chloroethane (µg/L)	5	<10			
Chloroform (µg/L)	7	<5.0			
Chloromethane (µg/L)	5	<10			
cis-1,2-Dichloroethene (µg/L)	5	<5.0			
cis-1,3-Dichloropropene (µg/L)	0.4**	<5.0			
Dibromochloromethane (µg/L)	50 (GV)	<5.0			
Dibromomethane (µg/L)	5	<5.0			
Ethyl benzene (µg/L)	5	<5.0			
Iodomethane (µg/L)	5	<10			
Methylene Chloride (µg/L)	5	<5.0			
Styrene (µg/L)	5	<5.0			
Tetrachloroethene (µg/L)	5	<5.0			
Toluene (µg/L)	5	<5.0			
trans-1,2-Dichloroethene (µg/L)	5	<5.0			
trans-1,3-Dichloropropene (µg/L)	0.4**	<5.0			
trans-1,4-Dichloro-2-butene (µg/L)	5	<10			
Trichloroethene (µg/L)	5	<5.0			
Trichlorofluoromethane (µg/L)	5	<5.0			
Vinyl Acetate (µg/L)	NS	<10			
Vinyl Chloride (µg/L)	2	<10			
Xylenes (Total) (µg/L)	5	<5.0			
1,2-Dichloroethene - Total	5				

City of Rome
Tannery Road Landfill
Monitoring Well MW-2D
Ground Water Analytical Data

Parameter	NYSDEC Ground Water Standard	3/12/2003	6/22/2004	9/28/2004	12/16/2004	3/22/2005	6/28/2005	9/27/2005	12/6/2005	3/28/2006	6/28/2006	9/26/2006	12/13/2006	3/15/2007	6/21/2007	9/25/2007	12/17/2007	3/27/2008	6/19/2008
Field Parameters																			
Conductivity (µmhos/cm)	NS	381	270	253	300	235	288	245	270	240	480	353	203	295	221	165	180	161	192
pH (s.u.)	6.5 - 8.5	6.7	6.73	6.98	6.8	7.62	6.96	7.45	6.7	7.3	8	7.8	6.72	7.01	7.32	7.1	7.06	7.34	7.3
Temperature (deg C)	NS	6.3	12	13.7	8	7.6		11.5	9	9	12	11.2	10.5	7.5	11	11.8	8.7	8.1	10.4
Turbidity (NTU)	5	**202**	**138**	**125**	**150**	**39**	**100**	**30**	**38**	**48**	**28**	**-**	**6**	0	**67**	**16**	**6**	**16**	**97**
Redox	NS														-118				
Dissolved Oxygen (mg/L)	NS														3.58				
Part 360 Leachate Indicator Parameters																			
Ammonia-Nitrogen (mg/L)	2	**11**	**7.5**	**2.5**	1.6	**6.1**	**4.6**	**6.5**	**5.3**	**4.5**	**5.4**	**11**	**3.3**	**5.8**	**4.2**	0.8	1.4	1.3	**2.8**
Biochemical Oxygen Demand (BOD5) (mg/L)	NS	<10.0	7.3	7.5	4.7	<4.0	<4.0	4.5	<4	<4	<4.0	5.5	<4	<20	<4	8.4	<4	<5	<4
Boron (mg/L)	1			0.089					<0.5	<0.5					<0.5				
Bromide (mg/L)	2	<0.1	<0.1	0.12	<0.1	<0.1	0.14	0.14	<0.1	<0.1	<0.10	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Chemical Oxygen Demand (mg/L)	NS	10	43	32	26	29	27	26	13	68	23	31	26	23	24	21	28	<5	19
Chloride (mg/L)	250	4.4	4.5	3.8	3.3	4	3.3	4.2	3.9	3.7	3.9	5.2	3.1	3.6	3.6	2.5	2.8	<2	3.6
Color (Pt-Co)	15			**650**					**100**	**300**					**160**				
Nitrate-Nitrogen (mg/L)	10	0.16	0.15	0.17	1.6	0.15	0.16	0.28	<0.1	<0.1	<0.10	<0.1	<0.1	0.1	0.1	0.55	<0.1	<0.04	<0.1
Sulfate (mg/L)	250	77	38	33	22	30	24	31	32	24	23	37	15	23	18	10	2.3	12	14
Total Alkalinity (mg/L)	NS	100	92	74	66	88	80	80	84	84	120	130	82	120	120	77	83	95	120
Total Cyanide (mg/L)	0.2			<0.01					<0.01	<0.01					<0.01				
Total Dissolved Solids (mg/L)	500	300	140	160	120	160	140	170	210	150	160	150	150	160	160	130	120	100	130
Total Hardness (mg/L)	NS	130	100	90	69	89	73	80	93	87	110	110	78	97	150	73	74	68	86
Total Kjeldahl Nitrogen (mg/L)	NS	13	8.4	5	1.9	7.2	4.4	6.5	3.3	3.1	4.9	11	4.9	5.8	4.7	1.4	2.6	1.7	3.7
Total Organic Carbon (mg/L)	NS	13	9.1	8	7.9	7.6	2.3	10	8	7.3	8.1	9.4	7.3	8	8.5	7.5	7	6.3	6.8
Total Phenols (mg/L)	0.001	<0.002	<0.002	<0.002	<0.002	<0.01	**0.0032**	<0.002	**0.0035**	**0.0023**	<0.002	<0.002	<0.05	<0.002	<0.003	<0.003	<0.003	<0.003	<0.003
Part 360 Routine Metals																			
Cadmium (mg/L)	0.005	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.010	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Calcium (mg/L)	NS	44	34	29	23	30	24	26	32	29	37	38	26	33	27	24	25	23	29
Iron (mg/L)	0.3*	**21**	**12**	**11**	**3.1**	**13**	**7.4**	**8.8**	**11**	9.9	**14**	**10**	**8.1**	**9.7**	**9.1**	**2.1**	**7.4**	**8**	**7.2**
Lead (mg/L)	0.025	<0.01	<0.01	<0.01	<0.01	<0.01	0.022	0.018	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Magnesium (mg/L)	35 (GV)	6.3	4.1	3.9	3	3.6	3.2	3.8	3.3	3.2	4.4	4.4	2.9	3.8	3.4	3.3	2.9	2.7	3.5
Manganese (mg/L)	0.3*	**1.5**	**1**	**1.1**	**0.97**	**0.96**	**0.87**	**0.93**	**0.89**	0.84	**1**	<0.01	**0.7**	**0.87**	**0.86**	**0.75**	**0.82**	**0.65**	**0.76**
Potassium (mg/L)	NS	21	13	17	12	12	11	12	11	11	12	15	6.6	12	11	7.6	8.1	6.9	8.6
Sodium (mg/L)	20	5.7	2.4	3	2.7	1.4	2.2	2.2	2.6	2.5	3.7	4.5	1.5	2.7	2.7	1.7	1.6	1.3	1.6
Part 360 Additional Baseline Metals																			
Aluminum (mg/L)	NS			0.37					0.26	0.25					0.23				
Antimony (mg/L)	0.003			<0.01					<0.01	<0.01					<0.01				
Arsenic (mg/L)	0.025			0.011					<0.01	<0.01					<0.01				
Barium (mg/L)	1			0.23					0.23	0.2					<0.2				
Beryllium (mg/L)	0.003 (GV)			<0.01					<0.01	<0.01					<0.01				
Chromium (mg/L)	0.05			<0.01					<0.01	<0.01					<0.01				
Chromium, Hexavalent (mg/L)	0.05			<0.01					<0.01	<0.01					<0.01				
Cobalt (mg/L)	NS			<0.01					<0.01	<0.01					<0.01				
Copper (mg/L)	0.2			<0.01					<0.01	<0.01					<0.04				
Mercury (mg/L)	0.0007			<0.0002					<0.0002	<0.0002					<0.0002				
Nickel (mg/L)	0.1			<0.01					<0.01	<0.01					<0.01				
Selenium (mg/L)	0.01			<0.01					<0.01	<0.01					<0.01				
Silver (mg/L)	0.05			<0.01					<0.01	<0.01					0.049				
Thallium (mg/L)	0.0005 (GV)			<0.01					<0.01	0.013					<0.01				
Vanadium (mg/L)	NS			0.012					<0.01	<0.01					<0.01				
Zinc (mg/L)	2			0.017					<0.01	0.021					0.023				
Part 360 Volatile Organics																			
1,1,1,2-Tetrachloroethane (µg/L)	5	<5		<1					<1	<1					<1.0				
1,1,1-Trichloroethane (µg/L)	5	<5		<1					<1	<1					<1.0				
1,1,2,2-Tetrachloroethane (µg/L)	5	<5		<1					<1	<1					<1.0				
1,1,2-Trichloroethane (µg/L)	1	<5		<1					<1	<1					<1.0				

City of Rome
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Monitoring Well MW-2D
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Parameter	NYSDEC Ground Water Standard	3/12/2003	6/22/2004	9/28/2004	12/16/2004	3/22/2005	6/28/2005	9/27/2005	12/6/2005	3/28/2006	6/28/2006	9/26/2006	12/13/2006	3/15/2007	6/21/2007	9/25/2007	12/17/2007	3/27/2008	6/19/2008
1,1-Dichloroethane (µg/L)	5	<5		<1					<1	<1					<1.0				
1,1-Dichloroethene (µg/L)	5	<5		<1					<1	<1					<1.0				
1,2,3-Trichloropropane (µg/L)	0.04	<5		<1					<1	<1					<1.0				
1,2-Dibromo-3-chloropropane (µg/L)	0.04	<5		<1					<1	<1					<1.0				
1,2-Dibromoethane (EDB) (µg/L)	5	<5		<1					<1	<1					<1.0				
1,2-Dichlorobenzene (µg/L)	3	<5		<1					<1	<1					<1.0				
1,2-Dichloroethane (µg/L)	0.6	<5		<1					<1	<1					<1.0				
1,2-Dichloropropane (µg/L)	1	<5		<1					<1	<1					<1.0				
1,4-Dichlorobenzene (µg/L)	3	<5		<1					<1	<1					<1.0				
2-Butanone (MEK) (µg/L)	50 (GV)	<10		<10					<5	<5					<5.0				
2-Hexanone (µg/L)	50 (GV)	<10		<10					<5	<5					<5.0				
4-Methyl 2-pentanone (µg/L)	NS	<10		<10					<5	<5					<5.0				
Acetone (µg/L)	50 (GV)	<10		<10					<10	<5					<5.0				
Acrylonitrile (µg/L)	5	<5		<5					<20	<20					<20				
Benzene (µg/L)	1	<5		<1					<1	<1					<1.0				
Bromochloromethane (µg/L)	5	<5		<1					<1	<1					<1.0				
Bromodichloromethane (µg/L)	50 (GV)	<5		<1					<1	<1					<1.0				
Bromoform (µg/L)	50 (GV)	<5		<1					<1	<1					<1.0				
Bromomethane (µg/L)	5	<5		<1					<1	<1					<1.0				
Carbon disulfide (µg/L)	60 (GV)	<5		<1					<1	<1					<1.0				
Carbon tetrachloride (µg/L)	5	<5		<1					<1	<1					<1.0				
Chlorobenzene (µg/L)	5	<5		<1					<1	<1					<1.0				
Chloroethane (µg/L)	5	<5		<1					<1	<1					<1.0				
Chloroform (µg/L)	7	<5		<1					<1	<1					<1.0				
Chloromethane (µg/L)	5	<5		<1					<1	<1					<1.0				
cis-1,2-Dichloroethene (µg/L)	5	<5		<1					<1	<1					<1.0				
cis-1,3-Dichloropropene (µg/L)	0.4**	<5		<1					<1	<1					<1.0				
Dibromochloromethane (µg/L)	50 (GV)	<5		<1					<1	<1					<1.0				
Dibromomethane (µg/L)	5	<5		<1					<1	<1					<1.0				
Ethyl benzene (µg/L)	5	<5		<1					<1	<1					<1.0				
Iodomethane (µg/L)	5	<5		<10					<5	<5					<5.0				
Methylene Chloride (µg/L)	5	<10		<10					<5	<1					<1.0				
Styrene (µg/L)	5	<5		<1					<1	<1					<1.0				
Tetrachloroethene (µg/L)	5	<5		<1					<1	<1					<1.0				
Toluene (µg/L)	5	<5		<1					<1	<1					<1.0				
trans-1,2-Dichloroethene (µg/L)	5	<5		<1					<1	<1					<1.0				
trans-1,3-Dichloropropene (µg/L)	0.4**	<5		<1					<1	<1					<1.0				
trans-1,4-Dichloro-2-butene (µg/L)	5	<5		<10					<5	<5					<5.0				
Trichloroethene (µg/L)	5	<5		<1					<1	<1					<1.0				
Trichlorofluoromethane (µg/L)	5	<5		<1					<1	<1					<1.0				
Vinyl Acetate (µg/L)	NS	<5		<5					<5	<5					<5.0				
Vinyl Chloride (µg/L)	2	<5		<1					<1	<1					<1.0				
Xylenes (Total) (µg/L)	5	<5		<1					<1	<1					<1.0				
1,2-Dichloroethene - Total	5	<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
Monitoring Well MW-2D
Ground Water Analytical Data

Parameter	NYSDEC Ground Water Standard	9/23/2008	12/15/2008	3/17/2009	6/22/2009	9/25/2009	12/14/2009	3/24/2010	6/23/2010	9/22/2010	12/21/2010
Field Parameters											
Conductivity (µmhos/cm)	NS	228	211	162	139	147	230	194	213	230	174
pH (s.u.)	6.5 - 8.5	7.39	7.35	6.8	6.89	6.92	6.97	7.06	**6.41**	7.56	7.1
Temperature (deg C)	NS	10.8	8.4	8.1	12.5	11	8.8	7	10.1	10.4	9
Turbidity (NTU)	5	0	**8**	**22**	**8**	**9**	0	**121**	0	**35**	0
Redox	NS										
Dissolved Oxygen (mg/L)	NS										
Part 360 Leachate Indicator Parameters											
Ammonia-Nitrogen (mg/L)	2	**4.9**	0.28	1.6	0.89	<0.030	**4.3**	1.63	**2.6**	**3.3**	1.2
Biochemical Oxygen Demand (BOD5) (mg/L)	NS	<4	<4	<4	5.6	<4.0	<4.0	6	<2.0	<12	<4.0
Boron (mg/L)	1	<0.5					<0.5	0.009			
Bromide (mg/L)	2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<1.0	<1.0	<1.0	<1.0
Chemical Oxygen Demand (mg/L)	NS	24	29	14	7.5	8.9	9.3	20	13	22	13
Chloride (mg/L)	250	3.9	3.1	2.8	2.8	2.6	4.5	1.6	4.77	3.38	1.42
Color (Pt-Co)	15	**100**					**120**	**70**			
Nitrate-Nitrogen (mg/L)	10	0.17	0.58	<0.1	0.23	0.43	<0.1	0.13	<0.020	<0.020	<0.02
Sulfate (mg/L)	250	16	10	11	9.9	10	13	14.7	13.6	15	13.6
Total Alkalinity (mg/L)	NS	150	130	74	85	92	86	75	100	104	80
Total Cyanide (mg/L)	0.2	<0.01					<0.01	<0.010			
Total Dissolved Solids (mg/L)	500	210	110	110	110	96	140	120	8	172	130
Total Hardness (mg/L)	NS	98	83	69	71	70	91	74	107	104	75
Total Kjeldahl Nitrogen (mg/L)	NS	5.3	1.4	2.1	1.2	0.89	2.4	2.24	3.6	3.1	1.7
Total Organic Carbon (mg/L)	NS	7.2	5.6	6.7	5.4	4	6.8	10.1	8.6	8.1	7.8
Total Phenols (mg/L)	0.001	**0.0055**	<0.003	<0.003	<0.003	<0.003	<0.003	<0.002	<0.002	<0.002	<0.002
Part 360 Routine Metals											
Cadmium (mg/L)	0.005	<0.01	<0.01	<0.01	<0.01	<0.010	<0.01	0.00033	<0.005	<0.005	<0.005
Calcium (mg/L)	NS	32	25	23	23	22	30	24.7	35.5	33.8	24.8
Iron (mg/L)	0.3*	**7.6**	**7.7**	**7.1**	**3.4**	**3**	**8.8**	**8.71**	**10.9**	**11.9**	**9.33**
Lead (mg/L)	0.025	<0.01	<0.01	<0.01	<0.01	<0.010	<0.01	<0.002	<0.005	<0.005	<0.005
Magnesium (mg/L)	35 (GV)	4.4	5	2.9	3.3	3.5	3.7	2.88	4.49	4.75	3.18
Manganese (mg/L)	0.3*	**0.75**	**0.91**	**0.72**	**0.85**	**0.8**	**0.84**	**0.779**	**0.981**	**1.01**	**0.829**
Potassium (mg/L)	NS	9.9	7.1	5.8	4.6	5.2	9	4.55	7.41	8.07	4.49
Sodium (mg/L)	20	1.9	2.2	1.1	1.1	<1.0	1.8	1.08	1.79	2.07	1.13
Part 360 Additional Baseline Metals											
Aluminum (mg/L)	NS	0.22					0.12	0.053			
Antimony (mg/L)	0.003	<0.01					<0.01	<0.020			
Arsenic (mg/L)	0.025	<0.01					<0.01	0.002			
Barium (mg/L)	1	0.21					0.15	0.121			
Beryllium (mg/L)	0.003 (GV)	<0.01					<0.01	<0.00014			
Chromium (mg/L)	0.05	<0.01					<0.01	<0.005			
Chromium, Hexavalent (mg/L)	0.05	<0.01					<0.01	<0.020			
Cobalt (mg/L)	NS	<0.01					<0.01	<0.000			
Copper (mg/L)	0.2	<0.01					<0.01	<0.003			
Mercury (mg/L)	0.0007	<0.0002					<0.0002	<0.00007			
Nickel (mg/L)	0.1	<0.01					<0.01	<0.001			
Selenium (mg/L)	0.01	<0.01					<0.01	<0.003			
Silver (mg/L)	0.05	<0.01					<0.01	<0.003			
Thallium (mg/L)	0.0005 (GV)	<0.01					<0.02	**0.01**			
Vanadium (mg/L)	NS	<0.01					<0.01	<0.005			
Zinc (mg/L)	2	0.021					<0.02	0.007			
Part 360 Volatile Organics											
1,1,1,2-Tetrachloroethane (µg/L)	5	<1					<1	<5.0			
1,1,1-Trichloroethane (µg/L)	5	<1					<1	<5.0			
1,1,2,2-Tetrachloroethane (µg/L)	5	<1					<1	<5.0			
1,1,2-Trichloroethane (µg/L)	1	<1					<1	<5.0			

City of Rome
Tannery Road Landfill
Monitoring Well MW-2D
Ground Water Analytical Data

Parameter	NYSDEC Ground Water Standard	9/23/2008	12/15/2008	3/17/2009	6/22/2009	9/25/2009	12/14/2009	3/24/2010	6/23/2010	9/22/2010	12/21/2010
1,1-Dichloroethane (µg/L)	5	<1					<1	<5.0			
1,1-Dichloroethene (µg/L)	5	<1					<1	<5.0			
1,2,3-Trichloropropane (µg/L)	0.04	<1					<1	<5.0			
1,2-Dibromo-3-chloropropane (µg/L)	0.04	<1					<1	<10			
1,2-Dibromoethane (EDB) (µg/L)	5	<1					<1	<5.0			
1,2-Dichlorobenzene (µg/L)	3	<1					<1	<5.0			
1,2-Dichloroethane (µg/L)	0.6	<1					<1	<5.0			
1,2-Dichloropropane (µg/L)	1	<1					<1	<5.0			
1,4-Dichlorobenzene (µg/L)	3	<1					<1	<5.0			
2-Butanone (MEK) (µg/L)	50 (GV)	<10					<10	<10			
2-Hexanone (µg/L)	50 (GV)	<10					<10	<10			
4-Methyl 2-pentanone (µg/L)	NS	<10					<10	<10			
Acetone (µg/L)	50 (GV)	<10					<10	<10			
Acrylonitrile (µg/L)	5	<20					<20	<25			
Benzene (µg/L)	1	<1					<1	<5.0			
Bromochloromethane (µg/L)	5	<1					<1	<5.0			
Bromodichloromethane (µg/L)	50 (GV)	<1					<1	<5.0			
Bromoform (µg/L)	50 (GV)	<1					<1	<5.0			
Bromomethane (µg/L)	5	<1					<1	<10			
Carbon disulfide (µg/L)	60 (GV)	<1					<1	<5.0			
Carbon tetrachloride (µg/L)	5	<1					<1	<5.0			
Chlorobenzene (µg/L)	5	<1					<1	<5.0			
Chloroethane (µg/L)	5	<1					<1	<10			
Chloroform (µg/L)	7	<1					<1	<5.0			
Chloromethane (µg/L)	5	<1					<1	<10			
cis-1,2-Dichloroethene (µg/L)	5	<1					<1	<5.0			
cis-1,3-Dichloropropene (µg/L)	0.4**	<1					<1	<5.0			
Dibromochloromethane (µg/L)	50 (GV)	<1					<1	<5.0			
Dibromomethane (µg/L)	5	<1					<1	<5.0			
Ethyl benzene (µg/L)	5	<1					<1	<5.0			
Iodomethane (µg/L)	5	<5					<5	<10			
Methylene Chloride (µg/L)	5	<1					<1	<5.0			
Styrene (µg/L)	5	<1					<1	<5.0			
Tetrachloroethene (µg/L)	5	<1					<1	<5.0			
Toluene (µg/L)	5	<1					<1	<5.0			
trans-1,2-Dichloroethene (µg/L)	5	<1					<1	<5.0			
trans-1,3-Dichloropropene (µg/L)	0.4**	<1					<1	<5.0			
trans-1,4-Dichloro-2-butene (µg/L)	5	<5					<5	<10			
Trichloroethene (µg/L)	5	<1					<1	<5.0			
Trichlorofluoromethane (µg/L)	5	<1					<1	<5.0			
Vinyl Acetate (µg/L)	NS	<5					<5	<10			
Vinyl Chloride (µg/L)	2	<1					<1	<10			
Xylenes (Total) (µg/L)	5	<1					<1	<5.0			
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-3S
Ground Water Analytical Data

Parameter	NYSDEC Ground Water Standards	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	12/16/04	03/22/05	06/28/05	09/27/05
Field Parameters																											
Conductivity (µmhos/cm)	NS	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	2,400	623	2,331	726
pH (s.u.)	6.5 - 8.5	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	6.7	6.97	6.75	6.95
Temperature (deg C)	NS	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	7	5.5		12.5
Turbidity (NTU)	5	**88**	**482**	**357**	**167**	**77**	**78**	**132**	**49**	**35**	**31**	**56**	**42**	**32**		**14**	0	Frozen	**109**	**60**	**70**	Frozen	**11**	**86**	**95**	**71**	**93**	**25**
Redox	NS																											
Dissolved Oxygen (mg/L)	NS																											
Leachate Indicator Parameters																											
Ammonia-Nitrogen (mg/L)	2		**75**	**89**	**84**	**120**	**120**	**160**	**130**	**130**	**110**	**95**	**130**	**120**	**82**	**53**	**78**	Frozen	**78**	**72**	**75**	Frozen	**53**	**56**	**52**	**45**	**50**	**39**
Biochemical Oxygen Demand (BOD5) (mg/	NS	18	35	28	28	34	16	31	30		24	16	12	11	<10	35	<10	Frozen	14	<4.0	17	Frozen	12	16	<10	<4.0	24	5.1
Boron (mg/L)	1		**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				
Bromide (mg/L)	2	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	<0.1	<0.1	<0.1	<0.1
Chemical Oxygen Demand (mg/L)	NS	930	320	<1	310	420	430	550	410	350	180	410	230	220	150	110	110	Frozen	93	96	120	Frozen	83	84	110	72	70	61
Chloride (mg/L)	250	**560**	**560**	**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	2.2	3.6	3.7	3.2
Color (Pt-Co)	15		**290**					**1,200**					**750**	**900**				Frozen	**500**	<0.1	0.17	Frozen		**750**				
Nitrate-Nitrogen (mg/L)	10	<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	<0.1	0.16	0.29	<0.1
Sulfate (mg/L)	250	<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	6.3	42	37	24
Total Alkalinity (mg/L)	NS	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	340	340	350	310
Total Cyanide	0.2		<0.01					<0.01					<0.01	<0.01				Frozen	<0.01	490	350	Frozen		<0.01				
Total Dissolved Solids (mg/L)	500	**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	320	350	390	340
Total Hardness (mg/L)	NS	770	750	644	504	478	430	470	410	320	360	290	260	200	170	190	150	Frozen	120	190	100	Frozen	120	100	110	130	120	110
Total Kjeldahl Nitrogen (mg/L)	NS	85	85	99	89	120	170	160	130	150	130	100	120	140	76	61	32	Frozen	86	63	64	Frozen	63	50	28	35	44	35
Total Organic Carbon (mg/L)	NS	200	170	247	123	36	200	150	130	120	130	84	90	86	60	47	43	Frozen	22	35	43	Frozen	30	26	35	23	24	21
Total Phenols (mg/L)	0.001	**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		<0.002	<0.002	**0.0053**		<0.002	<0.002	<0.002	<0.01	**0.0038**	**0.0021**
Part 360 Routine Metals																											
Cadmium (mg/L)	0.005		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	<0.01	<0.01	<0.01	<0.01
Calcium (mg/L)	NS	216	212	171	134	123	110	120	110	87	99	82	73	52	49	56	46	Frozen	39	59	32	Frozen	37	29	30	36	31	32
Iron (mg/L)	0.3*	**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**	**22**	**15**	**10**	**16**
Lead (mg/L)	0.025	<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	<0.01	<0.01	**0.044**	<0.01
Magnesium (mg/L)	35 (GV)	**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	7.5	9.5	9.3	8.2
Manganese (mg/L)	0.3*	**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**	**0.39**	**0.47**	**0.4**	**0.43**
Potassium (mg/L)	NS	202	191	210	160	160	210	230	210	170	170	140	150	140	110	79	97	Frozen	93	94	79	Frozen	110	66	70	74	66	
Sodium (mg/L)	20	**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	6.5	6.7	5.2	5.1
Part 360 Baseline Metals																											
Aluminum (mg/L)	NS		4.04					1.8					1	0.91					1.3					0.44			
Antimony (mg/L)	0.003		<0.015					0.043					<0.01	<0.01					<0.01					<0.01			
Arsenic (mg/L)	0.025		<0.01					0.01					<0.01	<0.01					0.011					0.012			
Barium (mg/L)	1		**1.25**					**1.3**					0.61	0.5					0.27					<0.2			
Beryllium (mg/L)	0.003 (GV)		<0.003					0.01					<0.01	<0.01					<0.01					<0.01			
Chromium (mg/L)	0.05		0.0222					0.025					0.015	0.018					0.011					<0.01			
Chromium, Hexavalent (mg/L)	0.05		<0.01					<0.01					<0.01	<0.5					<0.01					<0.01			
Cobalt (mg/L)	NS		<0.02					0.013					<0.01	<0.01					<0.01					<0.01			
Copper (mg/L)	0.2		0.0163					<0.01					<0.01	<0.01					<0.01					<0.01			
Mercury (mg/L)	0.0007		<0.0002					<0.0002					0.007	<0.0002					<0.0002					<0.0002			
Nickel (mg/L)	0.1		<0.03					0.033					0.019	0.027					<0.01					0.011			
Selenium (mg/L)	0.01		<0.005					<0.01					<0.01	<0.01					<0.01					<0.01			
Silver (mg/L)	0.05		<0.01					<0.01					<0.01	<0.01					<0.01					<0.01			
Thallium (mg/L)	0.0005 (GV)		0.0139					<0.01					<0.01	<0.01					<0.01					<0.01			
Vanadium (mg/L)	NS		0.0457					0.075					0.042	0.051					0.027					0.018			
Zinc (mg/L)	2		0.107					0.062					0.025	0.021					0.091					0.02			
Volatile Organics																											
1,1,1,2-Tetrachloroethane (µg/L)	5							<5					<5	<5				Frozen	<5					<1			
1,1,1-Trichloroethane (µg/L)	5		<5					<5					<5	<5				Frozen	<5					<1			
1,1,2,2-Tetrachloroethane (µg/L)	5		<5					<5					<5	<5				Frozen	<5					<1			
1,1,2-Trichloroethane (µg/L)	1		<5					<5					<5	<5				Frozen	<5					<1			
1,1-Dichloroethane (µg/L)	5		<5					<5					<5	<5				Frozen	<5					<1			
1,1-Dichloroethene (µg/L)	5		<5					<5					<5	<5				Frozen	<5					<1			
1,2,3-Trichloropropane (µg/L)	0.04							<5					<5	<5				Frozen	<5					<1			
1,2-Dibromo-3-chloropropane (µg/L)	0.04		<10					<5					<5	<5				Frozen	<5					<1			
1,2-Dibromoethane (EDB) (µg/L)	5		<5					<5					<5	<5				Frozen	<5					<1			
1,2-Dichlorobenzene (µg/L)	3		<5					<5					<5	<5				Frozen	<5					<1			
1,2-Dichloroethane (µg/L)	0.6		<5					<5					<5	<5				Frozen	<5					<1			
1,2-Dichloropropane (µg/L)	1		<5					<5					<5	<5				Frozen	<5					<1			
1,4-Dichlorobenzene (µg/L)	3		<5					<5					<5	<5				Frozen	<5					<1			
2-Butanone (MEK) (µg/L)	50 (GV)		<10					<10					<10	<10				Frozen	<10					<10			
2-Hexanone (µg/L)	50 (GV)		<10					<10					<10	<10				Frozen	<10					<10			
4-Methyl 2-pentanone (µg/L)	NS		<10					<10					<10	<10				Frozen	<10					<10			
Acetone (µg/L)	50 (GV)		21					<10					<10	<10				Frozen	<10					<10			
Acrylonitrile (µg/L)	5		<<100					<20					<20	<20				Frozen	<20					<5			
Benzene (µg/L)	1		<5					<5					<5	<5				Frozen	<5					<1			

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

Parameter	NYSDEC	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	12/16/04	03/22/05	06/28/05	09/27/05
Bromochloromethane (µg/L)	5		<5					<5					<5	<5				Frozen	<5					<1				
Bromodichloromethane (µg/L)	50 (GV)		<5										<5	<5				Frozen	<5					<1				
Bromoform (µg/L)	50 (GV)		<5					<5					<5	<5				Frozen	<5					<1				
Bromomethane (µg/L)	5		<5					<5					<5	<5				Frozen	<5					<1				
Carbon disulfide (µg/L)	60 (GV)		6					<5					<5	<5				Frozen	<5					<1				
Carbon tetrachloride (µg/L)	5		<5					<5					<5	<5				Frozen	<5					<1				
Chlorobenzene (µg/L)	5		<5					<5					<5	<5				Frozen	<5					<1				
Chloroethane (µg/L)	5		<5					<5					<5	<5				Frozen	<5					<1				
Chloroform (µg/L)	7		<5					<5					<5	<5				Frozen	<5					<1				
Chloromethane (µg/L)	5		<5					<5					<5	<5				Frozen	<5					<1				
cis-1,2-Dichloroethene (µg/L)	5		<5					<5					<5	<5				Frozen	<5					<1				
cis-1,3-Dichloropropene (µg/L)	0.4**		<5					<5					<5	<5				Frozen	<5					<1				
Dibromochloromethane (µg/L)	50 (GV)		<5					<5					<5	<5				Frozen	<5					<1				
Dibromomethane (µg/L)	5		<5					<5					<5	<5				Frozen	<5					<1				
Ethyl benzene (µg/L)	5		<5					<5					<5	<5				Frozen	<5					<1				
Iodomethane (µg/L)	5		<5					<20					<20	<10				Frozen	<10					<10				
Methylene Chloride (µg/L)	5		<5					<10					<10	<10				Frozen	<10					<10				
Styrene (µg/L)	5							<5					<5	<5				Frozen	<5					<1				
Tetrachloroethene (µg/L)	5		<5					<5					<5	<5				Frozen	<5					<1				
Toluene (µg/L)	5		<5					<5					<5	<5				Frozen	<5					<1				
trans-1,2-Dichloroethene (µg/L)	5		<5					<5					<5	<5				Frozen	<5					<1				
trans-1,3-Dichloropropene (µg/L)	0.4**		<5					<5					<5	<5				Frozen	<5					<1				
trans-1,4-Dichloro-2-butene (µg/L)	5							<50					<50	<10				Frozen	<10					<10				
Trichloroethene (µg/L)	5		<5					<5					<5	<5				Frozen	<5					<1				
Trichlorofluoromethane (µg/L)	5		<5					<5					<5	<5				Frozen	<5					<1				
Vinyl Acetate (µg/L)	NS		<50					<20					<20	<20				Frozen	<20					<5				
Vinyl Chloride (µg/L)	2		<5					<5					<5	<5				Frozen	<5					<1				
Xylenes (Total) (µg/L)	5		<5					<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 NYSDEC 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	NYSDEC Ground Water Standards	12/06/05	03/28/06	06/28/06	09/26/06	12/13/06	03/15/07	06/21/07	09/25/07	12/17/07	3/27/2008	6/19/2008	9/23/2008	12/15/2008	3/17/2009	6/22/2009	9/25/2009	12/14/2009	3/24/2010	6/23/2010	9/22/2010	12/21/2010
Field Parameters																						
Conductivity (µmhos/cm)	NS	630	560	460	517	453	212	555	533	441	475	448	452	507	425	412	493	500	478	480	451	477
pH (s.u.)	6.5 - 8.5	**6.2**	6.8	7.5	7.44	6.51	**6.38**	6.79	6.72	**6.48**	6.69	6.67	7.01	6.96	**6.31**	6.69	6.57	**6.1**	6.65	**5.54**	**6.34**	6.7
Temperature (deg C)	NS	8	7	12	12.9	9.5	5.2	11.2	12.5	7.3	5.6	10.3	12.6	7.8	6.1	14	12	8.4	6	11	13.1	7.1
Turbidity (NTU)	5	**88**	**56**	**55**	**-**	**46**	0	**21**	**101**	**10**	**11**	**12**	0	**85**	**21**	**14**	3	0	**30**	0	**24**	0
Redox	NS							-83														
Dissolved Oxygen (mg/L)	NS							3.99														
Leachate Indicator Parameters																						
Ammonia-Nitrogen (mg/L)	2	**36**	**25**	**17**	**12**	**9.1**	**8.7**	**14**	**15**	**7.3**	**11**	**5.8**	**9.7 J**	**3.9**	**3.3**	**2.7**	**2.4**	1.9	**2.2**	1.8	1.7	1.7
Biochemical Oxygen Demand (BOD5) (mg/	NS	<4	<4	7.6	5.6	<4	<20	<4	13	<4	<5	<4	<4	7	4.9	<4	8.1	4.6	10	6	17	9
Boron (mg/L)	1	<0.5	<0.5					<0.5					<0.5					<0.5	0.022			
Bromide (mg/L)	2	<0.1	<0.1	<0.10	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<1.0	<1.0	<1.0	<1.0
Chemical Oxygen Demand (mg/L)	NS	40	46	40	43	35	37	41	40	27	11	34	9.6	67	23	19	26	25	32.8	22	34	22
Chloride (mg/L)	250	<1	3.1	2.6	3.2	2.6	2.8	2.5	4	3.4	<2	2.4	2	3.1	2.7	2.6	3.9	2.6	<1.0	<1.0	<1.0	<1.0
Color (Pt-Co)	15	**340**	**375**					**400**					**100**					**25**	10			
Nitrate-Nitrogen (mg/L)	10	<0.1	0.25	<0.10	<0.1	<0.1	<0.1	<0.1	0.2	<0.1	<0.04	<0.1	0.17	<0.1	<0.1	0.23	<0.1	<0.1	<0.020	<0.020	<0.020	<0.02
Sulfate (mg/L)	250	30	2.9	3.7	4.9	4	4.1	5.4	13	4.7	2.7	4.7	4.4	4	3.7	<1	4.1	6.6	<1.0	4.77	<2.0	<2.0
Total Alkalinity (mg/L)	NS	260	300	270	280	250	300	300	280	250	270	250	260	280	240	220	250	250	260	250	240	255
Total Cyanide	0.2	<0.01	<0.01					<0.01					<0.01					<0.01	<0.010			
Total Dissolved Solids (mg/L)	500	280	260	310	310	270	390	300	280	250	250	280	310	270	230	260	270	260	293	237	287	320
Total Hardness (mg/L)	NS	110	130	160	150	160	190	120	160	170	180	180	170	220	190	210	210	230	222	246	203	142
Total Kjeldahl Nitrogen (mg/L)	NS	28	14	14	15	9.8	8.3	8.3	18	9.4	11	11	2.2 J	6	4.1	3.1	3.3	2.5	3.64	5	2.2	3.9
Total Organic Carbon (mg/L)	NS	19	13	14	14	12	13	14	12	11	11	10	11	14	9.9	9.5	10	11	12.6	12.3	10.9	11.9
Total Phenols (mg/L)	0.001	**0.0039**	<0.002	<0.002	<0.002	<0.05	<0.002	<0.003	<0.003	<0.003	<0.003	<0.003	**0.0036**	<0.003	<0.003	<0.003	<0.003	<0.003	<0.002	<0.002	<0.002	<0.002
Part 360 Routine Metals																						
Cadmium (mg/L)	0.005	<0.01	<0.01	<0.010	<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	<0.00013	<0.005	<0.005	<0.005
Calcium (mg/L)	NS	29	33	42	40	41	44	42	41	41	42	42	41	54	49	55	52	64	62.7	72	59.1	71.3
Iron (mg/L)	0.3*	**14**	**19**	**17**	**15**	**16**	**21**	**23**	**18**	**18**	**21**	**18**	**19**	**52**	**19**	**22**	**27**	**23**	**24.9**	**22.4**	**26.3**	**26.9**
Lead (mg/L)	0.025	<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	0.011	<0.010	<0.01	<0.002	<0.005	<0.005	0.006
Magnesium (mg/L)	35 (GV)	8.5	13	14	13	15	19	19	15	16	18	17	16	21	17	18	20	18	15.9	16.3	13.4	15.5
Manganese (mg/L)	0.3*	**0.45**	**0.71**	**0.69**	<0.01	**0.63**	**0.93**	**0.98**	**0.72**	**0.75**	**0.92**	**0.82**	**0.72**	**1**	**0.83**	**0.94**	**0.89**	**0.92**	**1.07**	**1.03**	**1.06**	**1.24**
Potassium (mg/L)	NS	60	53	47	44	19	30	35	40	26	32	25	25	19	17	16	20	18	13.2	16.2	12.9	12.5
Sodium (mg/L)	20	2.6	2.6	3	2.6	1.8	1.7	2.2	2.2	1.2	1.1	<1	<1	2.1	1.2	1.8	<1.0	1.3	0.898	1.19	0.933	0.991
Part 360 Baseline Metals																						
Aluminum (mg/L)	NS	2.5	2.8					0.37					0.56					0.12	0.071			
Antimony (mg/L)	0.003	<0.01	<0.01					<0.01					<0.01					<0.01	<0.020			
Arsenic (mg/L)	0.025	0.019	<0.01					<0.01					<0.01					<0.01	<0.002			
Barium (mg/L)	1	0.16	<0.2					<0.2					<0.2					<0.1	0.071			
Beryllium (mg/L)	0.003 (GV)	<0.01	<0.01					<0.01					<0.01					<0.01	<0.00014			
Chromium (mg/L)	0.05	<0.01	<0.01					<0.01					<0.01					<0.01	<0.005			
Chromium, Hexavalent (mg/L)	0.05	<0.01	<0.01					<0.01					<0.01					<0.01	<0.020			
Cobalt (mg/L)	NS	<0.01	<0.01					<0.01					<0.01					<0.01	<0.000			
Copper (mg/L)	0.2	<0.01	<0.01					<0.04					<0.01					<0.01	<0.003			
Mercury (mg/L)	0.0007	<0.0002	<0.0002					<0.0002					<0.0002					<0.0002	<0.00007			
Nickel (mg/L)	0.1	<0.01	<0.01					<0.01					<0.01					<0.01	<0.001			
Selenium (mg/L)	0.01	<0.01	<0.01					<0.01					<0.01					<0.01	<0.003			
Silver (mg/L)	0.05	<0.01	<0.01					**0.05**					<0.01					<0.01	<0.003			
Thallium (mg/L)	0.0005 (GV)	<0.01	<0.01					<0.01					<0.01					<0.02	**0.028**			
Vanadium (mg/L)	NS	0.014	0.012					<0.01					<0.01					<0.01	<0.005			
Zinc (mg/L)	2	0.018	0.018					0.045					0.027					<0.02	0.002			
Volatile Organics																						
1,1,1,2-Tetrachloroethane (µg/L)	5	<1	<1					<1.0					<1					<1	<5.0			
1,1,1-Trichloroethane (µg/L)	5	<1	<1					<1.0					<1					<1	<5.0			
1,1,2,2-Tetrachloroethane (µg/L)	5	<1	<1					<1.0					<1					<1	<5.0			
1,1,2-Trichloroethane (µg/L)	1	<1	<1					<1.0					<1					<1	<5.0			
1,1-Dichloroethane (µg/L)	5	<1	<1					<1.0					<1					<1	<5.0			
1,1-Dichloroethene (µg/L)	5	<1	<1					<1.0					<1					<1	<5.0			
1,2,3-Trichloropropane (µg/L)	0.04	<1	<1					<1.0					<1					<1	<5.0			
1,2-Dibromo-3-chloropropane (µg/L)	0.04	<1	<1					<1.0					<1					<1	<10			
1,2-Dibromoethane (EDB) (µg/L)	5	<1	<1					<1.0					<1					<1	<5.0			
1,2-Dichlorobenzene (µg/L)	3	<1	<1					<1.0					<1					<1	<5.0			
1,2-Dichloroethane (µg/L)	0.6	<1	<1					<1.0					<1					<1	<5.0			
1,2-Dichloropropane (µg/L)	1	<1	<1					<1.0					<1					<1	<5.0			
1,4-Dichlorobenzene (µg/L)	3	<1	<1					<1.0					<1					<1	<5.0			
2-Butanone (MEK) (µg/L)	50 (GV)	<5	<5					<5.0					<10					<10	<10			
2-Hexanone (µg/L)	50 (GV)	<5	<5					<5.0					<10					<10	<10			
4-Methyl 2-pentanone (µg/L)	NS	<5	<5					<5.0					<10					<10	<10			
Acetone (µg/L)	50 (GV)	<10	<5					<5.0					<10					<10	<10			
Acrylonitrile (µg/L)	5	<20	<20					<20					<20					<20	<25			
Benzene (µg/L)	1	<1	<1					<1.0					<1					<1	<5.0			

City of Rome
Tannery Road Landfill
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Parameter	NYSDEC	12/06/05	03/28/06	06/28/06	09/26/06	12/13/06	03/15/07	06/21/07	09/25/07	12/17/07	3/27/2008	6/19/2008	9/23/2008	12/15/2008	3/17/2009	6/22/2009	9/25/2009	12/14/2009	3/24/2010	6/23/2010	9/22/2010	12/21/2010
Bromochloromethane (µg/L)	5	<1	<1					<1.0					<1					<1	<5.0			
Bromodichloromethane (µg/L)	50 (GV)	<1	<1					<1.0					<1					<1	<5.0			
Bromoform (µg/L)	50 (GV)	<1	<1					<1.0					<1					<1	<5.0			
Bromomethane (µg/L)	5	<1	<1					<1.0					<1					<1	<10			
Carbon disulfide (µg/L)	60 (GV)	<1	<1					<1.0					<1					<1	<5.0			
Carbon tetrachloride (µg/L)	5	<1	<1					<1.0					<1					<1	<5.0			
Chlorobenzene (µg/L)	5	<1	<1					<1.0					<1					<1	<5.0			
Chloroethane (µg/L)	5	<1	<1					<1.0					<1					<1	<10			
Chloroform (µg/L)	7	<1	<1					<1.0					<1					<1	<5.0			
Chloromethane (µg/L)	5	<1	<1					<1.0					<1					<1	<10			
cis-1,2-Dichloroethene (µg/L)	5	<1	<1					<1.0					<1					<1	<5.0			
cis-1,3-Dichloropropene (µg/L)	0.4**	<1	<1					<1.0					<1					<1	<5.0			
Dibromochloromethane (µg/L)	50 (GV)	<1	<1					<1.0					<1					<1	<5.0			
Dibromomethane (µg/L)	5	<1	<1					<1.0					<1					<1	<5.0			
Ethyl benzene (µg/L)	5	<1	<1					<1.0					<1					<1	<5.0			
Iodomethane (µg/L)	5	<5	<5					<5.0					<5					<5	<10			
Methylene Chloride (µg/L)	5	<5	<1					<1.0					<1					<1	<5.0			
Styrene (µg/L)	5	<1	<1					<1.0					<1					<1	<5.0			
Tetrachloroethene (µg/L)	5	<1	<1					<1.0					<1					<1	<5.0			
Toluene (µg/L)	5	<1	<1					<1.0					<1					<1	<5.0			
trans-1,2-Dichloroethene (µg/L)	5	<1	<1					<1.0					<1					<1	<5.0			
trans-1,3-Dichloropropene (µg/L)	0.4**	<1	<1					<1.0					<1					<1	<5.0			
trans-1,4-Dichloro-2-butene (µg/L)	5	<5	<5					<5.0					<5					<5	<10			
Trichloroethene (µg/L)	5	<1	<1					<1.0					<1					<1	<5.0			
Trichlorofluoromethane (µg/L)	5	<1	<1					<1.0					<1					<1	<5.0			
Vinyl Acetate (µg/L)	NS	<5	<5					<5.0					<5					<5	<10			
Vinyl Chloride (µg/L)	2	<1	<1					<1.0					<1					<1	<10			
Xylenes (Total) (µg/L)	5	<1	<1					<1.0					<1					<1	<5.0			
	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-4S
Ground Water Analytical Data

Parameter	NYSDEC Ground Water Standard	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	12/16/04	3/22/05	6/28/05	9/27/05	12/6/05	3/28/06	6/28/06
Field Parameter																														
Conductivity (µmhos/cm)	NS	672	1,590	2,010	444	338	334	429	374	204	247	555	177	125	161	807	163	137	123	685	207	164	203	224	450	93	437	1,200	160	100	210
pH (s.u.)	6.5 - 8.5	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		**5.7**	**5.96**	**6.14**	**5.5**	**5.64**	**5.2**	**5.75**	**6.1**	**6.36**	**6.16**	**6.35**	**6**	6.5	6.8
Temperature (deg C)	NS	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	6	4.9	12.3	14.8	7	4.7		12.5	8	6	13
Turbidity (NTU)	5	**137**	**77**	**87**	**86**	**40**	**79**	**58**	**33**	**29**	**24**	**19**	**18**	**17**		**91**	0	**25**	**147**	**116**	**6**	**10**	**341**	**46**	**70**	0	**66**	**25**	0	**20**	**18**
Redox	NS																													
Dissolved Oxygen (mg/L)	NS																													
Part 360 Leachate Indicator Parameters																														
Ammonia-Nitrogen (mg/L)	2	**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**	**3.8**	**5.9**	**3.6**	0.84	0.64	**11**	**41**	**3**	1.5	**4.6**
Biochemical Oxygen Demand (BOD5) (mg/L)	NS	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	<4.0	4.3	<4	<4	<4.0	<10	20	<4	<4	<4.0
Boron (mg/L)	1		<0.1				0.53	0.71			<0.5	0.65	<0.5	<0.5	<0.5	**1.1**			<0.01	**1.4**	<0.5	<0.5		0.28					<0.5	<0.5	
Bromide (mg/L)	2	<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	<0.1	0.12	<0.1	<0.1	<0.10	0.12	0.54	<0.1	<0.1	<0.10
Chemical Oxygen Demand (mg/L)	NS	540	44	22	110	120	110	160	140	110	98	160	88	62	84	230	44	54	75	220	87	74	98	120	130	93	170	350	46	64	100
Chloride (mg/L)	250	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	4.8	2.5	8.4	7.4	3.2	3.7	12	110	4.2	3.6	3.8
Color (Pt-Co)	15		140					**250**					**300**	**250**					**175**					**550**					**70**	**150**	
Nitrate-Nitrogen (mg/L)	10	<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	0.15	<0.1	<0.1	<0.1	<0.1	0.14	0.12	<0.1	<0.1	<0.1	<0.10
Sulfate (mg/L)	250	24	32	11	56	52	28	40	35	11	17	49	27	17	15	20	39	24	14	25	31	3.2	26	20	8	4.8	26	14	35	13	14
Total Alkalinity (mg/L)	NS	200	120	660	110	99	99	140	100	57	91	170	23	27	48	280	20	24	34	200	30	41	54	60	32	40	76	320	24	28	52
Total Cyanide (mg/L)	0.2		<0.01					<0.01					<0.01	<0.01					<0.01					<0.01					<0.01	<0.01	
Total Dissolved Solids (mg/L)	500	320	**5,100**	**810**	330	240	160	340	250	170	200	300	180	160	150	**530**	130	150	140	**560**	80	130	190	190	130	100	220	**610**	130	96	160
Total Hardness (mg/L)	NS	42	110	94	49	36	41	46	44	31	40	56	42	34	36	77	42	35	35	130	37	36	43	37	34	36	43	83	44	32	41
Total Kjeldahl Nitrogen (mg/L)	NS	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	4.3	3.1	5.9	6.4	1.3	1.2	15	37	31	1.5	5.8
Total Organic Carbon (mg/L)	NS	71	21	47.8	35.5	39.3	45	56	62	42	43	61	33	30	41	84	21	24	27	78	32	29	38	40	48	28	44	100	24	25	42
Total Phenols (mg/L)	0.001	**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**	**0.0036**	<0.002	<0.002	**0.0079**	<0.002	<0.01	<0.002	<0.002	<0.002	<0.002	<0.002
Part 360 Routine Metals																															
Cadmium (mg/L)	0.005	<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	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.010
Calcium (mg/L)	NS	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	9.1	8.8	11	9.3	8.5	8.6	11	23	12	8.1	11
Iron (mg/L)	0.3*	**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**	**3.4**	**4**	**4.1**	**4.3**	**6.4**	**5.1**	**5**	**6.9**	**3.6**	**3**	**3.3**
Lead (mg/L)	0.025	<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	<0.01	<0.01	<0.01	<0.01	0.012	<0.01	<0.01	<0.01	<0.01
Magnesium (mg/L)	35 (GV)	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	3.5	3.8	3.3	3.1	3.5	3.8	5.8	3.6	2.8	3.4
Manganese (mg/L)	0.3*	**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	0.24	**0.3**	0.25	0.23	0.25	0.28	**0.7**	0.24	0.19	0.22
Potassium (mg/L)	NS	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	12	16	17	5.1	4.5	14	60	8.9	5.7	8.2
Sodium (mg/L)	20	**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	4.5	9.3	8.2	1.3	0.74	9.4	**110**	3.1	3	6.3
Part 360 Additional Basiline Metals																															
Aluminum (mg/L)	NS		2.77					1.8					1.1	1.2					1.4					1.4					0.75	1.1	
Antimony (mg/L)	0.003		<0.015					<0.01					<0.01	<0.01					<0.01					<0.01					<0.01	<0.01	
Arsenic (mg/L)	0.025		**0.027**					<0.01					<0.01	<0.01					0.011					<0.01					<0.01	<0.01	
Barium (mg/L)	1		0.0855					<0.2					<0.2	<0.2					<0.2					<0.2					<0.1	<0.2	
Beryllium (mg/L)	0.003 (GV)		<0.003					<0.01					<0.01	<0.01					<0.01					<0.01					<0.01	<0.01	
Chromium (mg/L)	0.05		0.0097					<0.01					<0.01	<0.01					<0.01					<0.01					<0.01	<0.01	
Chromium, Hexavalent (mg/L)	0.05		<0.01					<0.01					<0.01	<0.01					<0.01					<0.01					<0.01	<0.01	
Cobalt (mg/L)	NS		<0.02					<0.01					<0.01	<0.01					<0.01					<0.01					<0.01	<0.01	
Copper (mg/L)	0.2		0.0258					<0.01					<0.01	<0.01					<0.01					<0.01					<0.01	<0.01	
Mercury (mg/L)	0.0007		<0.0002					<0.0002					<0.0002	<0.0002					<0.0002					<0.0002					<0.0002	<0.0002	
Nickel (mg/L)	0.1		<0.03					0.021					<0.01	<0.01					<0.01					<0.01					<0.01	<0.01	
Selenium (mg/L)	0.01		<0.005					<0.01					<0.01	<0.01					<0.01					<0.01					**0.017**	<0.01	
Silver (mg/L)	0.05		<0.01					<0.01					<0.01	<0.01					<0.01					<0.01					<0.01	<0.01	
Thallium (mg/L)	0.0005 (GV)		<0.01					<0.01					<0.01	<0.01					<0.01					<0.01					<0.01	0.02	
Vanadium (mg/L)	NS		<0.3					0.011					<0.01	<0.01					<0.01					<0.01					<0.01	<0.01	
Zinc (mg/L)	2		0.0508					0.032					0.012	0.024					0.049					0.019					0.016	<0.01	
Part 360 Volatile Organics																															
1,1,1,2-Tetrachloroethane (µg/L)	5		<5.0					<5.0					<5.0	<5.0					<5					<1					<1	<1	
1,1,1-Trichloroethane (µg/L)	5		<5.0					<5.0					<5.0	<5.0			<5		<5					<1					<1	<1	
1,1,2,2-Tetrachloroethane (µg/L)	5		<5.0					<5.0					<5.0	<5.0			<5		<5					<1					<1	<1	
1,1,2-Trichloroethane (µg/L)	1		<5.0					<5.0					<5.0	<5.0			<5		<5					<1					<1	<1	
1,1-Dichloroethane (µg/L)	5		<5.0					<5.0					<5.0	<5.0			<5		<5					<1					<1	<1	
1,1-Dichloroethene (µg/L)	5		<5.0					<5.0					<5.0	<5.0			<5		<5					<1					<1	<1	
1,2,3-Trichloropropane (µg/L)	0.04							<5.0					<5.0	<5.0					<5					<1					<1	<1	
1,2-Dibromo-3-chloropropane (µg/L)	0.04		<10.0					<5.0					<5.0	<5.0					<5					<1					<1	<1	
1,2-Dibromoethane (EDB) (µg/L)	5		<5.0					<5.0					<5.0	<5.0					<5					<1					<1	<1	
1,2-Dichlorobenzene (µg/L)	3		<5.0					<5.0					<5.0	<5.0					<5					<1					<1	<1	
1,2-Dichloroethane (µg/L)	0.6		<5.0					<5.0					<5.0	<5.0			<5		<5					<1					<1	<1	
1,2-Dichloropropane (µg/L)	1		<5.0					<5.0					<5.0	<5.0			<5		<5					<1					<1	<1	
1,4-Dichlorobenzene (µg/L)	3		<5.0					<5.0					<5.0	<5.0					<5					<1					<1		
2-Butanone (MEK) (µg/L)	50 (GV)		<10.0					<10.0					<10.0	<10.0			<10		<10					<10					<5	<5	
2-Hexanone (µg/L)	50 (GV)		<10.0					<10.0					<10.0	<10.0			<10		<10					<10					<5	<5	
4-Methyl 2-pentanone (µg/L)	NS		<10.0					<10.0					<10.0	<10.0			<10		<10					<10					<5	<5	
Acetone (µg/L)	50 (GV)		<10.0					<10.0					<10.0	<10.0			<10		<10					<10					<10	<5	
Acrylonitrile (µg/L)	5		<100.0					<20.0					<20.0	<20.0					<20					<5					<20	<20	

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Parameter	NYSDEC Ground Water Standard	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	12/16/04	3/22/05	6/28/05	9/27/05	12/6/05	3/28/06	6/28/06
Benzene (µg/L)	1		<5.0					<5.0					<5.0	<5.0				<5	<5					<1					<1	<1	
Bromochloromethane (µg/L)	5		<5.0					<5.0					<5.0	<5.0					<5					<1					<1	<1	
Bromodichloromethane (µg/L)	50 (GV)		<5.0										<5.0	<5.0				<5	<5					<1					<1	<1	
Bromoform (µg/L)	50 (GV)		<5.0					<5.0					<5.0	<5.0				<5	<5					<1					<1	<1	
Bromomethane (µg/L)	5		<5.0					<5.0					<5.0	<5.0				<5	<5					<1					<1	<1	
Carbon disulfide (µg/L)	60 (GV)		<5.0					<5.0					<5.0	<5.0				<5	<5					<1					<1	<1	
Carbon tetrachloride (µg/L)	5		<5.0					<5.0					<5.0	<5.0				<5	<5					<1					<1	<1	
Chlorobenzene (µg/L)	5		<5.0					<5.0					<5.0	<5.0				<5	<5					<1					<1	<1	
Chloroethane (µg/L)	5		<5.0					<5.0					<5.0	<5.0				<5	<5					<1					<1	<1	
Chloroform (µg/L)	7		<5.0					<5.0					<5.0	<5.0				<5	<5					<1					<1	<1	
Chloromethane (µg/L)	5		<5.0					<5.0					<5.0	<5.0				<5	<5					<1					<1	<1	
cis-1,2-Dichloroethene (µg/L)	5		<5.0					<5.0					<5.0	<5.0					<5					<1					<1	<1	
cis-1,3-Dichloropropene (µg/L)	0.4**		<5.0					<5.0					<5.0	<5.0				<5	<5					<1					<1	<1	
Dibromochloromethane (µg/L)	50 (GV)		<5.0					<5.0					<5.0	<5.0				<5	<5					<1					<1	<1	
Dibromomethane (µg/L)	5		<5.0					<5.0					<5.0	<5.0					<5					<1					<1	<1	
Ethyl benzene (µg/L)	5		<5.0					<5.0					<5.0	<5.0				<5	<5					<1					<1	<1	
Iodomethane (µg/L)	5		<5.0					<20.0					<20.0	<10.0					<10					<10					<5	<5	
Methylene Chloride (µg/L)	5		<5.0					<10.0					<10.0	<10.0				<10	<10					<10					<5	<1	
Styrene (µg/L)	5							<5.0					<5.0	<5.0				<5	<5					<1					<1	<1	
Tetrachloroethene (µg/L)	5		<5.0					<5.0					<5.0	<5.0				<5	<5					<1					<1	<1	
Toluene (µg/L)	5		<5.0					<5.0					<5.0	<5.0				<5	<5					<1					<1	<1	
trans-1,2-Dichloroethene (µg/L)	5		<5.0					<5.0					<5.0	<5.0					<5					<1					<1	<1	
trans-1,3-Dichloropropene (µg/L)	0.4**		<5.0					<5.0					<5.0	<5.0				<5	<5					<1					<1	<1	
trans-1,4-Dichloro-2-butene (µg/L)	5							<50.0					<50.0	<10.0					<10					<10					<5	<5	
Trichloroethene (µg/L)	5		<5.0					<5.0					<5.0	<5.0				<5	<5					<1					<1	<1	
Trichlorofluoromethane (µg/L)	5		<5.0					<5.0					<5.0	<5.0					<5					<1					<1	<1	
Vinyl Acetate (µg/L)	NS		<50.0					<20.0					<20.0	<20.0					<20					<5					<5	<5	
Vinyl Chloride (µg/L)	2		<5.0					<5.0					<5.0	<5.0				<5	<5					<1					<1	<1	
Xylenes (Total) (µg/L)	5		<5.0					<5.0					<5.0	<5.0				<5	<5					<1					<1	<1	
1,2-Dichloroethene - Total	5																	<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

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Field Parameter																			
Conductivity (µmhos/cm)	NS	300	155	83	507	668	140	170	209	504	770	106	88	387	168	93	136	325	207
pH (s.u.)	6.5 - 8.5	6.81	**5.67**	**5.78**	**5.95**	**6.01**	**5.16**	**5.95**	**5.9**	**6.17**	**6.2**	**5.87**	**5.8**	**6.11**	**5.8**	**5.55**	**5.01**	**5.99**	**6.1**
Temperature (deg C)	NS	13.2	9.2	4.8	11	13	7.7	5	10.6	12.7	7.1	5.7	13.8	12	7.8	6.1	10.9	13.4	6.9
Turbidity (NTU)	5	-	**6**	0	**13**	**15**	5	**9**	2	0	**32**	**17**	**6**	**20**	0	3	0	**28**	0
Redox	NS				-108														
Dissolved Oxygen (mg/L)	NS				4.41														
Part 360 Leachate Indicator Parameters																			
Ammonia-Nitrogen (mg/L)	2	**11**	**5**	**3.3**	**23**	**31**	**3.3**	**3.6**	**7.3**	**30**	0.87	1.6	0.5	**17**	**12**	0.54	**3.2**	**19.3**	**8.4**
Biochemical Oxygen Demand (BOD5) (mg/L)	NS	5.5	<4	<20	9.5	17	<4	6.9	<4	13	<4	<4	<4	11	<4.0	<2.0	<2.0	61	<4.0
Boron (mg/L)	1				0.63					0.9					<0.5	0.036			
Bromide (mg/L)	2	<0.1	<0.1	<0.1	<0.1	0.37	<0.1	<0.1	<0.1	0.2	<0.1	<0.1	<0.1	<0.1	<0.1	1.9	<1.0	**2.09**	<1.0
Chemical Oxygen Demand (mg/L)	NS	130	80	75	190	200	55	93	100	210	75	48	8.9	160	50	54.1	83	171	98
Chloride (mg/L)	250	13	3.8	3.2	43	60	4.6	5.5	7.6	52	3.4	3.3	2.5	13	3.2	<1.0	1.26	18.9	3.26
Color (Pt-Co)	15				**240**					**300**					**60**	**70**			
Nitrate-Nitrogen (mg/L)	10	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.04	0.15	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.020	<0.020	<0.020	<0.02
Sulfate (mg/L)	250	29	17	11	24	11	20	23	20	13	28	16	9.7	24	40	20.5	19.7	26.4	33.8
Total Alkalinity (mg/L)	NS	100	48	43	130	230	35	58	76	220	38	30	68	100	19	17	38	120	65
Total Cyanide (mg/L)	0.2				<0.01					<0.01					<0.01	<0.010			
Total Dissolved Solids (mg/L)	500	220	150	120	370	410	96	130	190	**500**	120	90	120	250	130	108	117	268	218
Total Hardness (mg/L)	NS	41	39	33	56	55	35	42	38	52	40	34	36	35	53	36	42	42	42
Total Kjeldahl Nitrogen (mg/L)	NS	15	7.2	4.4	23	34	5.8	5.3	1.8	32	3.2	2.4	1.1	20	3.9	1.4	4.2	18.5	9.8
Total Organic Carbon (mg/L)	NS	55	34	33	82	100	29	34	43	90	25	23	22	66	23	22.5	37	59.3	40.8
Total Phenols (mg/L)	0.001	<0.002	<0.05	<0.002	<0.003	<0.003	<0.003	**0.0034**	<0.003	**0.0032**	<0.003	<0.003	<0.003	<0.003	<0.003	<0.002	<0.002	<0.002	<0.002
Part 360 Routine Metals																			
Cadmium (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	<0.010	<0.01	<0.00013	<0.005	<0.005	<0.005
Calcium (mg/L)	NS	12	10	8.7	16	17	9.2	11	10	15	10	9	9.4	10	14	9.72	11.7	12.7	11.9
Iron (mg/L)	0.3*	**2.8**	**2.8**	**2.7**	**5.4**	**7.8**	**2.8**	**4.2**	**2.9**	**4.6**	**4.7**	**2.9**	**1.5**	**4**	**2.6**	**1.08**	**1.85**	**3.38**	**2.51**
Lead (mg/L)	0.025	<0.01	<0.01	<0.01	<0.01	0.015	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.010	<0.01	<0.002	<0.005	<0.005	<0.005
Magnesium (mg/L)	35 (GV)	2.8	3.2	2.7	4.6	3.3	2.8	3.5	3	3.5	3.7	2.9	3.1	2.4	4.4	2.84	3.01	2.56	2.88
Manganese (mg/L)	0.3*	<0.01	0.2	0.2	**0.44**	**0.51**	0.22	0.29	0.25	**0.38**	0.24	0.22	0.15	0.23	0.24	0.115	0.194	**0.317**	0.255
Potassium (mg/L)	NS	29	8.3	7	21	40	8.6	11	11	25	4.4	4.5	2.7	24	6.2	1.35	6.92	24.4	14.5
Sodium (mg/L)	20	**26**	3.6	2.4	**36**	**60**	3.6	9	9.2	**42**	2.5	2.7	1.6	**30**	4.1	1.25	5.5	**32.2**	10.6
Part 360 Additional Basiline Metals																			
Aluminum (mg/L)	NS				1.6					2.6					0.77	0.678			
Antimony (mg/L)	0.003				<0.01					<0.01					<0.01	<0.020			
Arsenic (mg/L)	0.025				<0.01					<0.01					<0.01	<0.002			
Barium (mg/L)	1				<0.2					<0.2					<0.1	0.008			
Beryllium (mg/L)	0.003 (GV)				<0.01					<0.01					<0.01	<0.00014			
Chromium (mg/L)	0.05				0.015					<0.01					<0.01	<0.005			
Chromium, Hexavalent (mg/L)	0.05				<0.01					<0.01					<0.01	<0.020			
Cobalt (mg/L)	NS				<0.01					<0.01					<0.01	<0.000			
Copper (mg/L)	0.2				<0.04					<0.01					<0.01	<0.003			
Mercury (mg/L)	0.0007				<0.0002					<0.0002					<0.0002	<0.00007			
Nickel (mg/L)	0.1				<0.01					0.011					<0.01	0.001			
Selenium (mg/L)	0.01				<0.01					<0.01					<0.01	<0.003			
Silver (mg/L)	0.05				**0.052**					<0.01					<0.01	<0.003			
Thallium (mg/L)	0.0005 (GV)				<0.01					<0.01					<0.02	**0.009**			
Vanadium (mg/L)	NS				0.012					0.016					<0.01	0.007			
Zinc (mg/L)	2				0.01					0.025					0.025	0.009			
Part 360 Volatile Organics																			
1,1,1,2-Tetrachloroethane (µg/L)	5				<1.0					<20					<1	<5.0			
1,1,1-Trichloroethane (µg/L)	5				<1.0					<20					<1	<5.0			
1,1,2,2-Tetrachloroethane (µg/L)	5				<1.0					<20					<1	<5.0			
1,1,2-Trichloroethane (µg/L)	1				<1.0					<20					<1	<5.0			
1,1-Dichloroethane (µg/L)	5				<1.0					<20					<1	<5.0			
1,1-Dichloroethene (µg/L)	5				<1.0					<20					<1	<5.0			
1,2,3-Trichloropropane (µg/L)	0.04				<1.0					<20					<1	<5.0			
1,2-Dibromo-3-chloropropane (µg/L)	0.04				<1.0					<20					<1	<10			
1,2-Dibromoethane (EDB) (µg/L)	5				<1.0					<20					<1	<5.0			
1,2-Dichlorobenzene (µg/L)	3				<1.0					<20					<1	<5.0			
1,2-Dichloroethane (µg/L)	0.6				<1.0					<20					<1	<5.0			
1,2-Dichloropropane (µg/L)	1				<1.0					<20					<1	<5.0			
1,4-Dichlorobenzene (µg/L)	3				<1.0					<20					<1	<5.0			
2-Butanone (MEK) (µg/L)	50 (GV)				<5.0					<200					<10	<10			
2-Hexanone (µg/L)	50 (GV)				<5.0					<200					<10	<10			
4-Methyl 2-pentanone (µg/L)	NS				<5.0					<200					<10	<10			
Acetone (µg/L)	50 (GV)				<5.0					<200					<10	<10			
Acrylonitrile (µg/L)	5				<20					<500					<20	<25			

City of Rome
Tannery Road Landfill
MW-4S
Ground Water Analytical Data

Parameter	NYSDEC Ground Water Standard	9/26/06	12/13/06	3/15/07	6/21/07	9/25/07	12/17/07	3/27/2008	6/19/2008	9/23/2008	12/15/2008	3/17/2009	6/22/2009	9/25/2009	12/14/2009	3/24/2010	6/23/2010	9/22/2010	12/21/2010
Benzene (µg/L)	1				<1.0					<20					<1	<5.0			
Bromochloromethane (µg/L)	5				<1.0					<20					<1	<5.0			
Bromodichloromethane (µg/L)	50 (GV)				<1.0					<20					<1	<5.0			
Bromoform (µg/L)	50 (GV)				<1.0					<20					<1	<5.0			
Bromomethane (µg/L)	5				<1.0					<20					<1	<10			
Carbon disulfide (µg/L)	60 (GV)				<1.0					<20					<1	<5.0			
Carbon tetrachloride (µg/L)	5				<1.0					<20					<1	<5.0			
Chlorobenzene (µg/L)	5				<1.0					<20					<1	<5.0			
Chloroethane (µg/L)	5				<1.0					<20					<1	<10			
Chloroform (µg/L)	7				<1.0					<20					<1	<5.0			
Chloromethane (µg/L)	5				<1.0					<20					<1	<10			
cis-1,2-Dichloroethene (µg/L)	5				<1.0					<20					<1	<5.0			
cis-1,3-Dichloropropene (µg/L)	0.4**				<1.0					<20					<1	<5.0			
Dibromochloromethane (µg/L)	50 (GV)				<1.0					<20					<1	<5.0			
Dibromomethane (µg/L)	5				<1.0					<20					<1	<5.0			
Ethyl benzene (µg/L)	5				<1.0					<20					<1	<5.0			
Iodomethane (µg/L)	5				<5.0					<100					<5	<10			
Methylene Chloride (µg/L)	5				<1.0					<20					<1	<5.0			
Styrene (µg/L)	5				<1.0					<20					<1	<5.0			
Tetrachloroethene (µg/L)	5				<1.0					<20					<1	<5.0			
Toluene (µg/L)	5				<1.0					<20					<1	<5.0			
trans-1,2-Dichloroethene (µg/L)	5				<1.0					<20					<1	<5.0			
trans-1,3-Dichloropropene (µg/L)	0.4**				<1.0					<20					<1	<5.0			
trans-1,4-Dichloro-2-butene (µg/L)	5				<5.0					<100					<5	<10			
Trichloroethene (µg/L)	5				<1.0					<20					<1	<5.0			
Trichlorofluoromethane (µg/L)	5				<1.0					<20					<1	<5.0			
Vinyl Acetate (µg/L)	NS				<5.0					<100					<5	<10			
Vinyl Chloride (µg/L)	2				<1.0					<20					<1	<10			
Xylenes (Total) (µg/L)	5				<1.0					<20					<1	<5.0			
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

Parameter	NYSDEC Ground Water Standard	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	12/16/04	3/22/05	6/28/05	9/27/05	12/6/05	3/28/06
Field Parameter																													
Conductivity (µmhos/cm)	NS	869	340	308	195	540	230	167	219	456	163	433	227	232	223	112	252	227	208	102	230	306	112	118	276	182	227	178	550	270
pH (s.u.)	6.5 - 8.5	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	6.77	6.85	6.9	**6.15**	**6.1**	**6.44**	6.6	7.18	6.66	6.9	**5.9**	6.9
Temperature (deg C)	NS	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	8	5.7		12.5	9	6
Turbidity (NTU)	5	**64**	**533**	**204**	**162**	**74**	**55**	**198**	**46**	**35**	**42**	**68**	**36**	**47**		**837**	0	**27**	**334**	**202**	**140**	**41**	**150**	**108**	**154**	**8**	**149**	**119**	**38**	**50**
Redox	NS																													
Dissolved Oxygen (mg/L)	NS																													
Part 360 Leachate Indicator Parameters																													
Ammonia-Nitrogen (mg/L)	2	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	<0.03	0.15	<0.03	<0.03	0.82	0.93
Biochemical Oxygen Demand (BOD5) (mg/L)	NS	11	11	2	2	62	20	<2.0	<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	<4	<4.0	<4.0	<4.0	7.6	<4
Boron (mg/L)	1		<0.1				<0.5	<0.5			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5			<0.5	<0.5	<0.5	<0.5		0.014					<0.5	<0.5
Bromide (mg/L)	2	<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	<0.1	<0.1	0.24	<0.1	<0.1	<0.1
Chemical Oxygen Demand (mg/L)	NS	71	45	32	20	36	24	32	26	37	5.2	43	23	31	18	62	20	16	69	22	32	25	25	15	14	18	16	15	23	22
Chloride (mg/L)	250	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	2.5	3	2.6	3.1	3.2	3
Color (Pt-Co)	15		**110**					**30**					**75**	**150**					**125**					**450**					**130**	**140**
Nitrate-Nitrogen (mg/L)	10	<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	0.19	0.14	0.13	0.23	<0.1	<0.1
Sulfate (mg/L)	250	37	40	28	31	51	16	44	60	42	34	53	36	23	18	21	23	21	22	16	14	21	11	9.6	8.3	7.3	9	7.6	12	14
Total Alkalinity (mg/L)	NS	470	170	300	58	260	120	52	47	200	50	190	68	82	80	40	110	97	86	32	100	110	48	38	88	140	24	64	230	110
Total Cyanide (mg/L)	0.2		<0.01										<0.01	<0.01					<0.01					<0.01					<0.01	<0.01
Total Dissolved Solids (mg/L)	500	430	130	230	150	360	730	140	150	300	120	240	200	78	110	180	170	160	170	92	160	180	80	66	90	170	52	90	290	170
Total Hardness (mg/L)	NS	320	130	148	81	228	120	96	110	200	78	230	110	110	93	110	120	130	120	66	110	130	54	52	94	130	31	84	230	130
Total Kjeldahl Nitrogen (mg/L)	NS	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	0.14	0.32	0.66	0.39	1.1	0.8
Total Organic Carbon (mg/L)	NS	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	5.4	5.6	5.1	5.4	9.7	9.4
Total Phenols (mg/L)	0.001	<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**	<0.002	<0.01	**0.0037**	<0.002	**0.0035**	**0.0021**
Part 360 Routine Metals																													
Cadmium (mg/L)	0.005	<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	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Calcium (mg/L)	NS	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	24	40	9.3	24	71	42
Iron (mg/L)	0.3*	**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**	**22**	**15**	**7.6**	**24**	**19**	**11**
Lead (mg/L)	0.025	<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	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Magnesium (mg/L)	35 (GV)	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	4.2	8.1	1.9	5.7	12	6.6
Manganese (mg/L)	0.3*	**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**	**0.63**	**1.3**	0.063	**0.82**	**1.6**	**0.52**
Potassium (mg/L)	NS	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	2.7	3.3	1.5	3.2	5.4	4
Sodium (mg/L)	20	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	1.2	<1.0	<1.0	1.1	2	1.5
Part 360 Additional Baseline Metals																													
Aluminum (mg/L)	NS		3.2					2					0.41	0.54					0.73					0.44					0.14	0.35
Antimony (mg/L)	0.003		<0.015					**0.022**					<0.01	<0.01					<0.01					<0.01					<0.01	<0.01
Arsenic (mg/L)	0.025		0.0138					<0.01					<0.01	0.013					**0.031**					0.013					<0.02	<0.01
Barium (mg/L)	1		0.0655					<0.2					<0.2	<0.2					<0.2					<0.2					0.14	<0.2
Beryllium (mg/L)	0.003 (GV)		<0.003					<0.01					<0.01	<0.01					<0.01					<0.01					<0.01	<0.01
Chromium (mg/L)	0.05		0.0109					<0.01					<0.01	<0.01					<0.01					<0.01					<0.01	<0.01
Chromium, Hexavalent (mg/L)	0.05		<0.01					<0.01					<0.01	<0.01					<0.01					<0.01					<0.01	<0.01
Cobalt (mg/L)	NS		<0.02					<0.01					<0.01	<0.01					<0.01					<0.01					<0.01	<0.01
Copper (mg/L)	0.2		0.0295					0.014					<0.01	<0.01					<0.01					<0.01					<0.01	<0.01
Mercury (mg/L)	0.0007		<0.0002					**0.0027**					<0.0002	<0.0002					<0.0002					<0.0002					<0.0002	<0.0002
Nickel (mg/L)	0.1		<0.03					<0.01					<0.01	<0.01					<0.01					<0.01					<0.01	<0.01
Selenium (mg/L)	0.01		<0.005					<0.01					<0.01	<0.01					<0.01					<0.01					<0.01	<0.01
Silver (mg/L)	0.05		<0.01					<0.01					<0.01	<0.01					<0.01					<0.01					<0.01	<0.01
Thallium (mg/L)	0.0005 (GV)		<0.01					<0.01					<0.01	<0.01					<0.01					<0.01					<0.01	<0.01
Vanadium (mg/L)	NS		<0.3					<0.01					<0.01	<0.01					<0.01					<0.01					<0.01	<0.01
Zinc (mg/L)	2		0.0827					0.058					0.013	0.032					0.041					0.017					<0.01	0.015
Part 360 Volatile Organics																													
1,1,1,2-Tetrachloroethane (µg/L)	5		<5.0					<5.0					<5.0	<5.0					<5					<1					<1	<1
1,1,1-Trichloroethane (µg/L)	5		<5.0					<5.0					<5.0	<5.0				<5	<5					<1					<1	<1
1,1,2,2-Tetrachloroethane (µg/L)	5		<5.0					<5.0					<5.0	<5.0				<5	<5					<1					<1	<1
1,1,2-Trichloroethane (µg/L)	1		<5.0					<5.0					<5.0	<5.0				<5	<5					<1					<1	<1
1,1-Dichloroethane (µg/L)	5		<5.0					<5.0					<5.0	<5.0				<5	<5					<1					<1	<1
1,1-Dichloroethene (µg/L)	5		<5.0					<5.0					<5.0	<5.0				<5	<5					<1					<1	<1
1,2,3-Trichloropropane (µg/L)	0.04							<5.0					<5.0	<5.0					<5					<1					<1	<1
1,2-Dibromo-3-chloropropane (µg/L)	0.04		<10.0					<5.0					<5.0	<5.0					<5					<1					<1	<1
1,2-Dibromoethane (EDB) (µg/L)	5		<5.0					<5.0					<5.0	<5.0					<5					<1					<1	<1
1,2-Dichlorobenzene (µg/L)	3		<5.0					<5.0					<5.0	<5.0					<5					<1					<1	<1
1,2-Dichloroethane (µg/L)	0.6		<5.0					<5.0					<5.0	<5.0				<5	<5					<1					<1	<1
1,2-Dichloropropane (µg/L)	1		<5.0					<5.0					<5.0	<5.0				<5	<5					<1					<1	<1
1,4-Dichlorobenzene (µg/L)	3		<5.0					<5.0					<5.0	<5.0					<5					<1					<1	
2-Butanone (MEK) (µg/L)	50 (GV)		<10.0					<10.0					<10.0	<10.0				<10	<10					<10					<5	<5
2-Hexanone (µg/L)	50 (GV)		<10.0					<10.0					<10.0	<10.0				<10	<10					<10					<5	<5
4-Methyl 2-pentanone (µg/L)	NS		<10.0					<10.0					<10.0	<10.0				<10	<10					<10					<5	<5
Acetone (µg/L)	50 (GV)		<10.0					<10.0					<10.0	<10.0				<10	<10					<10					<10	<5

City of Rome
Tannery Road Landfill
MW-5S
Ground Water Analytical Data

Parameter	NYSDEC Ground Water Standard	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	12/16/04	3/22/05	6/28/05	9/27/05	12/6/05	3/28/06
Acrylonitrile (µg/L)	5		<100.0					<20.0					<20.0	<20.0					<20					<5					<20	<20
Benzene (µg/L)	1		<5.0					<5.0					<5.0	<5.0				<5	<5					<1					<1	<1
Bromochloromethane (µg/L)	5		<5.0					<5.0					<5.0	<5.0					<5					<1					<1	<1
Bromodichloromethane (µg/L)	50 (GV)		<5.0										<5.0	<5.0				<5	<5					<1					<1	<1
Bromoform (µg/L)	50 (GV)		<5.0					<5.0					<5.0	<5.0				<5	<5					<1					<1	<1
Bromomethane (µg/L)	5		<5.0					<5.0					<5.0	<5.0				<5	<5					<1					<1	<1
Carbon disulfide (µg/L)	60 (GV)		<5.0					<5.0					<5.0	<5.0				<5	<5					<1					<1	<1
Carbon tetrachloride (µg/L)	5		<5.0					<5.0					<5.0	<5.0				<5	<5					<1					<1	<1
Chlorobenzene (µg/L)	5		<5.0					<5.0					<5.0	<5.0				<5	<5					<1					<1	<1
Chloroethane (µg/L)	5		<5.0					<5.0					<5.0	<5.0				<5	<5					<1					<1	<1
Chloroform (µg/L)	7		<5.0					<5.0					<5.0	<5.0				<5	<5					<1					<1	<1
Chloromethane (µg/L)	5		<5.0					<5.0					<5.0	<5.0				<5	<5					<1					<1	<1
cis-1,2-Dichloroethene (µg/L)	5		<5.0					<5.0					<5.0	<5.0					<5					<1					<1	<1
cis-1,3-Dichloropropene (µg/L)	0.4**		<5.0					<5.0					<5.0	<5.0				<5	<5					<1					<1	<1
Dibromochloromethane (µg/L)	50 (GV)		<5.0					<5.0					<5.0	<5.0				<5	<5					<1					<1	<1
Dibromomethane (µg/L)	5		<5.0					<5.0					<5.0	<5.0					<5					<1					<1	<1
Ethyl benzene (µg/L)	5		<5.0					<5.0					<5.0	<5.0				<5	<5					<1					<1	<1
Iodomethane (µg/L)	5		<5.0					<20.0					<20.0	<10.0					<10					<10					<5	<5
Methylene Chloride (µg/L)	5		<5.0					<10.0					<10.0	<10.0				<10	<10					<10					<5	<1
Styrene (µg/L)	5							<5.0					<5.0	<5.0				<5	<5					<1					<1	<1
Tetrachloroethene (µg/L)	5		<5.0					<5.0					<5.0	<5.0				<5	<5					<1					<1	<1
Toluene (µg/L)	5		<5.0					<5.0					<5.0	<5.0				<5	<5					<1					<1	<1
trans-1,2-Dichloroethene (µg/L)	5		<5.0					<5.0					<5.0	<5.0					<5					<1					<1	<1
trans-1,3-Dichloropropene (µg/L)	0.4**		<5.0					<5.0					<5.0	<5.0				<5	<5					<1					<1	<1
trans-1,4-Dichloro-2-butene (µg/L)	5							<50.0					<50.0	<10.0					<10					<10					<5	<5
Trichloroethene (µg/L)	5		<5.0					<5.0					<5.0	<5.0				<5	<5					<1					<1	<1
Trichlorofluoromethane (µg/L)	5		<5.0					<5.0					<5.0	<5.0					<5					<1					<1	<1
Vinyl Acetate (µg/L)	NS		<50.0					<20.0					<20.0	<20.0					<20					<5					<5	<5
Vinyl Chloride (µg/L)	2		<5.0					<5.0					<5.0	<5.0				<5	<5					<1					<1	<1
Xylenes (Total) (µg/L)	5		<5.0					<5.0					<5.0	<5.0				<5	<5					<1					<1	<1
1,2-Dichloroethene - Total	5																	<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

Notes
1) < indica
2) NS indi
3) * indica
4) GV indi
5) Values i
6) ** Indic

City of Rome
Tannery Road Landfill
MW-5S
Ground Water Analytical Data

Parameter	NYSDEC Ground Water Standard	6/28/06	9/26/06	12/13/06	3/15/07	6/21/07	9/25/07	12/17/07	3/27/08	6/19//2008	9/23//2008	12/15/2008	3/17/2009	6/22/2009	9/25/2009	12/14/2009	3/24/2010	6/23/2010	9/22/2010	12/21/2010
Field Parameter																				
Conductivity (µmhos/cm)	NS	420	102	324	172	109	97	324	326	79	80	324	274	108	81	119	52	185	129	237
pH (s.u.)	6.5 - 8.5	7.2	7.19	**6.45**	**6.38**	6.72	**6.32**	**6.13**	**6.38**	6.75	**6.48**	6.67	**5.92**	**6.13**	**6.13**	**6.4**	**6.2**	**5.36**	**6.37**	6.6
Temperature (deg C)	NS	11	12	9.4	5.5	9.8	11.1	7.4	5.1	8.7	11.5	7.8	5.1	10.6	10.5	7.9	5.2	9.9	12.5	7
Turbidity (NTU)	5	**10**	-	**28**	0	**161**	**260**	**15**	**55**	**78**	3	**74**	**121**	**310**	**127**	**22**	**107**	**116**	**102**	0
Redox	NS					-8														
Dissolved Oxygen (mg/L)	NS					5.14														
Part 360 Leachate Indicator Parameters																				
Ammonia-Nitrogen (mg/L)	2	0.055	<0.03	0.88	0.28	0.14	<0.03	0.51	0.83	<0.03	<0.03	1.2	0.44	<0.03	<0.030	0.058	<0.1	<0.1	<0.1	0.3
Biochemical Oxygen Demand (BOD5) (mg/L)	NS	<4.0	<4	<4	<4	<4	<4	5.2	<5	<4	<4	<4	<4	<4	<4.0	<4.0	<2.0	<2.0	<4.0	<4.0
Boron (mg/L)	1					<0.5					<0.5					<0.5	<0.001			
Bromide (mg/L)	2	<0.10	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<1.0	<1.0	<1.0	<1.0
Chemical Oxygen Demand (mg/L)	NS	8.9	16	23	12	19	30	14	30	<5	7.6	40	14	<5	20	<5.0	8.2	<5.0	9	13
Chloride (mg/L)	250	2.5	2.9	2.7	2.9	2.7	2.2	3	<2	2.7	2.2	3.1	2.6	2.4	2.5	2.4	<1.0	<1.0	<1.0	<1.0
Color (Pt-Co)	15					**100**					**200**					<5	<5.0			
Nitrate-Nitrogen (mg/L)	10	<0.10	0.13	<0.1	<0.1	<0.1	<0.1	<0.1	<0.04	0.17	0.18	<0.1	<0.1	<0.1	<0.1	<0.1	0.03	<0.020	<0.020	<0.02
Sulfate (mg/L)	250	8.6	8.8	8.1	9.4	8.2	7.3	6	8.3	6.6	6.7	6.8	7.9	8.1	6.9	5.6	10.2	6.37	5.4	5.86
Total Alkalinity (mg/L)	NS	44	52	150	78	56	44	170	150	37	240	200	140	120	78	60	17	95	50	135
Total Cyanide (mg/L)	0.2					<0.01					<0.01					<0.01	<0.010			
Total Dissolved Solids (mg/L)	500	66	120	210	140	86	74	210	160	82	92	170	120	48	48	<10	25	102	95	138
Total Hardness (mg/L)	NS	55	49	150	78	110	45	160	140	42	41	150	110	18	34	68	22	111	54	113
Total Kjeldahl Nitrogen (mg/L)	NS	0.23	0.48	1.1	0.51	0.37	0.42	1.2	1.8	1.4	0.34	2.8	0.77	0.25	0.66	0.23	<1.0	<1.0	<1.0	1.4
Total Organic Carbon (mg/L)	NS	4.7	4.3	7.2	4.2	5	12	7.8	7.8	3.9	4.6	4.7	6.9	5.7	3.9	5.1	3	4	3.6	5.6
Total Phenols (mg/L)	0.001	**0.0032**	<0.002	<0.05	<0.002	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.002	<0.002	<0.002	<0.002
Part 360 Routine Metals																				
Cadmium (mg/L)	0.005	<0.010	<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	<0.00013	<0.005	<0.005	<0.005
Calcium (mg/L)	NS	16	15	47	23	16	13	48	43	13	12	45	35	4.6	9.6	20	6.02	32.5	15.5	34.6
Iron (mg/L)	0.3*	**2.6**	**2.8**	**12**	**4.8**	**13**	**65**	**12**	**9.1**	**5.9**	**6.4**	**17**	**11**	**1**	**12**	**6.6**	**18.3**	**6.1**	**6.53**	**6.73**
Lead (mg/L)	0.025	<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	<0.002	<0.005	<0.005	<0.005
Magnesium (mg/L)	35 (GV)	3.7	2.9	9	4.9	3.8	2.9	8.8	7.4	2.6	2.6	9	6.5	1.5	2.4	4.3	1.58	7.29	3.65	6.55
Manganese (mg/L)	0.3*	**0.32**	<0.01	**0.88**	**0.49**	**0.44**	**0.34**	**0.96**	**0.89**	**0.32**	**0.4**	**1.1**	**1.1**	0.02	0.16	**0.64**	0.178	**1.38**	0.277	**0.739**
Potassium (mg/L)	NS	1.7	1.8	2.5	1.9	1.8	1.6	4.2	3.8	1.5	1.6	3.9	2.6	<1	1.2	2	0.609	1.77	1.33	1.73
Sodium (mg/L)	20	<1.0	<1	1.2	1.2	1	1.5	1.3	1.1	1	<1	1.6	<1	<1	<1.0	<1.0	0.365	0.798	0.646	0.734
Part 360 Additional Baseline Metals																				
Aluminum (mg/L)	NS					0.64					1.2					0.15	0.234			
Antimony (mg/L)	0.003					<0.01					<0.01					<0.01	<0.020			
Arsenic (mg/L)	0.025					<0.01					<0.01					<0.01	0.008			
Barium (mg/L)	1					<0.2					<0.2					<0.1	0.019			
Beryllium (mg/L)	0.003 (GV)					<0.01					<0.01					<0.01	<0.00014			
Chromium (mg/L)	0.05					<0.01					<0.01					<0.01	<0.005			
Chromium, Hexavalent (mg/L)	0.05					<0.01					<0.01					<0.01	<0.020			
Cobalt (mg/L)	NS					<0.01					<0.01					<0.01	0.001			
Copper (mg/L)	0.2					<0.04					<0.01					<0.01	<0.003			
Mercury (mg/L)	0.0007					<0.0002					<0.0002					<0.0002	<0.00007			
Nickel (mg/L)	0.1					<0.01					<0.01					<0.01	<0.001			
Selenium (mg/L)	0.01					<0.01					<0.01					<0.01	<0.003			
Silver (mg/L)	0.05					0.049					<0.01					<0.01	<0.003			
Thallium (mg/L)	0.0005 (GV)					<0.01					<0.01					<0.02	**0.003**			
Vanadium (mg/L)	NS					<0.01					<0.01					<0.01	<0.005			
Zinc (mg/L)	2					0.023					0.022					<0.02	0.006			
Part 360 Volatile Organics																				
1,1,1,2-Tetrachloroethane (µg/L)	5					<1.0					<1					<1	<5.0			
1,1,1-Trichloroethane (µg/L)	5					<1.0					<1					<1	<5.0			
1,1,2,2-Tetrachloroethane (µg/L)	5					<1.0					<1					<1	<5.0			
1,1,2-Trichloroethane (µg/L)	1					<1.0					<1					<1	<5.0			
1,1-Dichloroethane (µg/L)	5					<1.0					<1					<1	<5.0			
1,1-Dichloroethene (µg/L)	5					<1.0					<1					<1	<5.0			
1,2,3-Trichloropropane (µg/L)	0.04					<1.0					<1					<1	<5.0			
1,2-Dibromo-3-chloropropane (µg/L)	0.04					<1.0					<1					<1	<10			
1,2-Dibromoethane (EDB) (µg/L)	5					<1.0					<1					<1	<5.0			
1,2-Dichlorobenzene (µg/L)	3					<1.0					<1					<1	<5.0			
1,2-Dichloroethane (µg/L)	0.6					<1.0					<1					<1	<5.0			
1,2-Dichloropropane (µg/L)	1					<1.0					<1					<1	<5.0			
1,4-Dichlorobenzene (µg/L)	3					<1.0					<10					<1	<5.0			
2-Butanone (MEK) (µg/L)	50 (GV)					<5.0					<10					<10	<10			
2-Hexanone (µg/L)	50 (GV)					<5.0					<10					<10	<10			
4-Methyl 2-pentanone (µg/L)	NS					<5.0					<20					<10	<10			
Acetone (µg/L)	50 (GV)					<5.0					<1					<10	<10			

City of Rome
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Parameter	NYSDEC Ground Water Standard	6/28/06	9/26/06	12/13/06	3/15/07	6/21/07	9/25/07	12/17/07	3/27/08	6/19//2008	9/23//2008	12/15/2008	3/17/2009	6/22/2009	9/25/2009	12/14/2009	3/24/2010	6/23/2010	9/22/2010	12/21/2010
Acrylonitrile (µg/L)	5					<20					<1					<20	<25			
Benzene (µg/L)	1					<1.0					<1					<1	<5.0			
Bromochloromethane (µg/L)	5					<1.0					<1					<1	<5.0			
Bromodichloromethane (µg/L)	50 (GV)					<1.0					<1					<1	<5.0			
Bromoform (µg/L)	50 (GV)					<1.0					<1					<1	<5.0			
Bromomethane (µg/L)	5					<1.0					<1					<1	<10			
Carbon disulfide (µg/L)	60 (GV)					<1.0					<1					<1	<5.0			
Carbon tetrachloride (µg/L)	5					<1.0					<1					<1	<5.0			
Chlorobenzene (µg/L)	5					<1.0					<1					<1	<5.0			
Chloroethane (µg/L)	5					<1.0					<1					<1	<10			
Chloroform (µg/L)	7					<1.0					<1					<1	<5.0			
Chloromethane (µg/L)	5					<1.0					<1					<1	<10			
cis-1,2-Dichloroethene (µg/L)	5					<1.0					<1					<1	<5.0			
cis-1,3-Dichloropropene (µg/L)	0.4**					<1.0					<1					<1	<5.0			
Dibromochloromethane (µg/L)	50 (GV)					<1.0					<1					<1	<5.0			
Dibromomethane (µg/L)	5					<1.0					<5					<1	<5.0			
Ethyl benzene (µg/L)	5					<1.0					<1					<1	<5.0			
Iodomethane (µg/L)	5					<5.0					<1					<5	<10			
Methylene Chloride (µg/L)	5					<1.0					<1					<1	<5.0			
Styrene (µg/L)	5					<1.0					<1					<1	<5.0			
Tetrachloroethene (µg/L)	5					<1.0					<1					<1	<5.0			
Toluene (µg/L)	5					<1.0					<1					<1	<5.0			
trans-1,2-Dichloroethene (µg/L)	5					<1.0					<5					<1	<5.0			
trans-1,3-Dichloropropene (µg/L)	0.4**					<1.0					<1					<1	<5.0			
trans-1,4-Dichloro-2-butene (µg/L)	5					<5.0					<1					<5	<10			
Trichloroethene (µg/L)	5					<1.0					<5					<1	<5.0			
Trichlorofluoromethane (µg/L)	5					<1.0					<1					<1	<5.0			
Vinyl Acetate (µg/L)	NS					<5.0					<1					<5	<10			
Vinyl Chloride (µg/L)	2					<1.0										<1	<10			
Xylenes (Total) (µg/L)	5					<1.0										<1	<5.0			
1,2-Dichloroethene - Total	5																			

ıtes not detected at or above the listed value
cates that no standard has been promulgated.
ıtes that the sum of these two analytes may not exceed 500 µg/L.
icates that the value listed is a guidance value rather than a standard.
in bold exceeded the applicable NYSDEC ground water standard/guidance value.
:ates standard applies to the sum of the isomers

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

Parameter	NYSDEC Ground Water Standard	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	12/16/04	3/22/05	6/28/05	9/27/05
Field Parameters																											
Conductivity (µmhos/cm)	NS	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	1150	785	1,131	434
pH (s.u.)	6.5 - 8.5	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**	**6.42**	**6.48**	6.9	**6.23**	**5.7**	**6**	**6.4**	**6.25**	**6.4**	7.05
Temperature (deg C)	NS	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	9	8.7		10.8
Turbidity (NTU)	5	**160**	**42**	**94**	**247**	**128**	**83**	**98**	**62**	**97**	**112**	**152**	**53**	**29**		**345**	**61**	**69**	**999**	**128**	**30**	59	**150**	**165**	**200**	**70**	**151**	**104**
Redox	NS																											
Dissolved Oxygen (mg/L)	NS																											
Part 360 Leachate Indicator Parameters																												
Ammonia-Nitrogen (mg/L)	2	**47**	**25**	**47**	**36**	**33**	**58**	**41**	**37**	**46**	**40**	**47**	**39**	**43**	**46**	**22**	**34**	**39**	**40**	**38**	**8.4**	**30**	**29**	**25**	**8.5**	**26**	**11**	**17**
Biochemical Oxygen Demand (BOD5) (mg/L)	NS	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	<4	6.2	<10	13
Boron (mg/L)	1		0.7				**1.7**	**1.2**			<0.5	0.83	<0.5	0.99	0.83	<0.5			**1.1**	1.2	<0.5	0.95		0.8				
Bromide (mg/L)	2	<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	<0.1	0.4	0.22	0.15
Chemical Oxygen Demand (mg/L)	NS	570	140	14	110	120	150	140	120	140	120	120	120	130	130	150	100	120	150	120	76	110	550	130	59	109	76	83
Chloride (mg/L)	250	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	5.5	36	7.6	15
Color (Pt-Co)	15		**280**					**750**					**850**	**750**					**600**					**675**				
Nitrate-Nitrogen (mg/L)	10	<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	0.49	0.16	0.18	0.19
Sulfate (mg/L)	250	<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	14	15	7.5	5.9
Total Alkalinity (mg/L)	NS	670	370	710	470	450	680	460	440	430	470	430	390	460	470	160	360	390	410	340	120	320	330	290	150	320	140	230
Total Cyanide (mg/L)	0.2		<0.01					<0.01					<0.01	<0.01					<0.01					<0.01				
Total Dissolved Solids (mg/L)	500	**540**	**540**	**710**	**660**	**610**	**400**	**590**	**600**	**670**	**570**	480	**650**	**720**	**650**	420	**520**	**580**	**640**	**580**	240	**510**	440	420	240	460	280	280
Total Hardness (mg/L)	NS	300	260	350	310	244	390	320	270	280	270	260	250	270	280	140	240	270	270	310	97	230	220	200	90	180	140	150
Total Kjeldahl Nitrogen (mg/L)	NS	44	36	36	24	26	680	50	51	52	43	50	39	50	44	26	36	41	41	25	6.4	35	24	18	8.5	21	11	13
Total Organic Carbon (mg/L)	NS	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	23	38	26	25
Total Phenols (mg/L)	0.001	**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**	<0.002	<0.01	**0.0047**	**0.0041**
Part 360 Routine Metals																												
Cadmium (mg/L)	0.005	<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	<0.01	<0.01	<0.01	<0.01
Calcium (mg/L)	NS	62.9	61.1	74.9	64.2	56.4	87	77	66	70	66	64	65	71	71	35	63	69	76	24	57	54	49	21	45	32	33	
Iron (mg/L)	0.3*	**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**	**11**	**27**	**26**	**24**
Lead (mg/L)	0.025	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	0.012	<0.01	**0.032**	**0.028**
Magnesium (mg/L)	35 (GV)	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	9	17	14	16
Manganese (mg/L)	0.3*	**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**	**0.38**	**0.55**	**0.61**	**0.59**
Potassium (mg/L)	NS	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	14	28	19	20
Sodium (mg/L)	20	**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**	7.7	**33**	7.4	19
Part 360 Additional Baseline Metals																												
Aluminum (mg/L)	NS		0.439					1					1.2	0.83					2.3					1.1				
Antimony (mg/L)	0.003		<0.015					**0.034**					<0.01	<0.01					<0.01					<0.01				
Arsenic (mg/L)	0.025		<0.01					0.011					<0.01	<0.01					**0.026**					0.011				
Barium (mg/L)	1		0.217					<0.2					0.43	0.49					0.61					0.23				
Beryllium (mg/L)	0.003 (GV)		<0.003					<0.01					<0.01	<0.01					<0.01					<0.01				
Chromium (mg/L)	0.05		<0.005					<0.01					<0.01	<0.01					<0.01					<0.01				
Chromium, Hexavalent (mg/L)	0.05		<0.01					<0.01					<0.01	<0.01					<0.01					<0.01				
Cobalt (mg/L)	NS		<0.02					<0.01					<0.01	<0.01					<0.01					<0.01				
Copper (mg/L)	0.2		<0.01					<0.01					0.022	<0.01					<0.01					<0.01				
Mercury (mg/L)	0.0007		<0.0002					<0.0002					<0.0002	<0.0002					<0.0002					<0.0002				
Nickel (mg/L)	0.1		<0.03					<0.01					<0.01	<0.01					<0.01					0.046				
Selenium (mg/L)	0.01		<0.005					<0.01					<0.01	<0.01					<0.01					<0.01				
Silver (mg/L)	0.05		<0.01					<0.01					<0.01	<0.01					<0.01					<0.01				
Thallium (mg/L)	0.0005 (GV)		**0.0105**					<0.01					<0.01	<0.01					<0.01					<0.01				
Vanadium (mg/L)	NS		<0.3					0.013					0.013	0.01					0.018					0.016				
Zinc (mg/L)	2		0.056					0.067					0.036	0.034					0.097					0.041				
Part 360 Volatile Organics																												
1,1,1,2-Tetrachloroethane (µg/L)	5		<5.0					<5.0					<5.0	<5.0					<5					<1				
1,1,1-Trichloroethane (µg/L)	5		<5.0					<5.0					<5.0	<5.0				<5	<5					<1				
1,1,2,2-Tetrachloroethane (µg/L)	5		<5.0					<5.0					<5.0	<5.0				<5	<5					<1				
1,1,2-Trichloroethane (µg/L)	1		<5.0					<5.0					<5.0	<5.0				<5	<5					<1				
1,1-Dichloroethane (µg/L)	5		<5.0					<5.0					<5.0	<5.0				<5	<5					<1				
1,1-Dichloroethene (µg/L)	5		<5.0					<5.0					<5.0	<5.0				<5	<5					<1				
1,2,3-Trichloropropane (µg/L)	0.04							<5.0					<5.0	<5.0					<5					<1				
1,2-Dibromo-3-chloropropane (µg/L)	0.04		<10.0					<5.0					<5.0	<5.0					<5					<1				
1,2-Dibromoethane (EDB) (µg/L)	5		<5.0					<5.0					<5.0	<5.0					<5					<1				

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Parameter	NYSDEC Ground Water Standard	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	12/16/04	3/22/05	6/28/05	9/27/05
1,2-Dichlorobenzene (µg/L)	3		<5.0					<5.0					<5.0	<5.0					<5					<1			
1,2-Dichloroethane (µg/L)	0.6		<5.0					<5.0					<5.0	<5.0				<5	<5					<1			
1,2-Dichloropropane (µg/L)	1		<5.0					<5.0					<5.0	<5.0				<5	<5					<1			
1,4-Dichlorobenzene (µg/L)	3		<5.0					<5.0					<5.0	<5.0					<5					<1			
2-Butanone (MEK) (µg/L)	50 (GV)		<10.0					<10.0					<10.0	<10.0				<10	<10					<10			
2-Hexanone (µg/L)	50 (GV)		<10.0					<10.0					<10.0	<10.0				<10	<10					<10			
4-Methyl 2-pentanone (µg/L)	NS		<10.0					<10.0					<10.0	<10.0				<10	<10					<10			
Acetone (µg/L)	50 (GV)		<10.0					<10.0					<10.0	<10.0				10	<10					<10			
Acrylonitrile (µg/L)	5		<100.0					<20.0					<20.0	<20.0					<20					<5			
Benzene (µg/L)	1		<5.0					**14**					**17**	**24**				**15**	**16**					**4.3**			
Bromochloromethane (µg/L)	5		<5.0					<5.0					<5.0	<5.0					<5					<1			
Bromodichloromethane (µg/L)	50 (GV)		<5.0										<5.0	<5.0				<5	<5					<1			
Bromoform (µg/L)	50 (GV)		<5.0					<5.0					<5.0	<5.0				<5	<5					<1			
Bromomethane (µg/L)	5		<5.0					<5.0					<5.0	<5.0				<5	<5					<1			
Carbon disulfide (µg/L)	60 (GV)		<18.0					<5.0					<5.0	<5.0				<5	<5					<1			
Carbon tetrachloride (µg/L)	5		<5.0					<5.0					<5.0	<5.0				<5	<5					<1			
Chlorobenzene (µg/L)	5		**23**					**8.4**					**5.8**	**5.3**				<5	<5					4.4			
Chloroethane (µg/L)	5		<5.0					<5.0					<5.0	<5.0				<5	<5					<1			
Chloroform (µg/L)	7		<5.0					<5.0					<5.0	<5.0				<5	<5					<1			
Chloromethane (µg/L)	5		<5.0					<5.0					<5.0	<5.0				<5	<5					<1			
cis-1,2-Dichloroethene (µg/L)	5		<5.0					<5.0					<5.0	<5.0					<5					<1			
cis-1,3-Dichloropropene (µg/L)	0.4**		<5.0					<5.0					<5.0	<5.0				<5	<5					<1			
Dibromochloromethane (µg/L)	50 (GV)		<5.0					<5.0					<5.0	<5.0				<5	<5					<1			
Dibromomethane (µg/L)	5		<5.0					<5.0					<5.0	<5.0					<5					<1			
Ethyl benzene (µg/L)	5		<5.0					<5.0					<5.0	<5.0				<5	<5					<1			
Iodomethane (µg/L)	5		<5.0					<20.0					<20.0	<10.0					<10					<10			
Methylene Chloride (µg/L)	5		<5.0					<10.0					<10.0	<10.0				<10	<10					<10			
Styrene (µg/L)	5							<5.0					<5.0	<5.0				<5	<5					<1			
Tetrachloroethene (µg/L)	5		<5.0					<5.0					<5.0	<5.0				<5	<5					<1			
Toluene (µg/L)	5		<5.0					<5.0					<5.0	<5.0				<5	<5					<1			
trans-1,2-Dichloroethene (µg/L)	5		<5.0					<5.0					<5.0	<5.0					<5					<1			
trans-1,3-Dichloropropene (µg/L)	0.4**		<5.0					<5.0					<5.0	<5.0				<5	<5					<1			
trans-1,4-Dichloro-2-butene (µg/L)	5							<50.0					<50.0	<10.0					<10					<10			
Trichloroethene (µg/L)	5		<5.0					<5.0					<5.0	<5.0				<5	<5					<1			
Trichlorofluoromethane (µg/L)	5		<5.0					<5.0					<5.0	<5.0					<5					<1			
Vinyl Acetate (µg/L)	NS		<50.0					<20.0					<20.0	<20.0					<20					<5			
Vinyl Chloride (µg/L)	2		<5.0					<5.0					<5.0	<5.0				<5	<5					<1			
Xylenes (Total) (µg/L)	5		2					**16**					**130**	**180**				**160**	**97**					<1			
1,2-Dichloroethene - Total	5																	<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
7) J indicates estimated concentration due to QC sample recovery

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Parameter	NYSDEC Ground Water Standard	12/6/05	3/6/06	6/6/06	9/26/06	12/13/06	3/15/07	6/1/07	9/25/07	12/17/07	3/27/08	6/19/08	9/23/08	12/15/08	3/17/09	6/22/09	9/25/09	12/14/09	3/24/10	6/23/2010	9/22/2010	12/21/2010
Field Parameters																						
Conductivity (µmhos/cm)	NS	730	710	450	670	684	1,020	650	287	581	656	551	649	633	327	407	258	632	440	519	578	525
pH (s.u.)	6.5 - 8.5	**6.1**	6.8	7.2	7.25	**6.33**	**6.27**	6.53	6.75	**6.14**	6.73	**6.36**	**6.09**	7.08	**6.16**	**6.34**	**6.08**	**5.8**	**5.7**	**5.91**	**6.37**	**5.75**
Temperature (deg C)	NS	9	10	12	11	10.1	8.7	10.8	12	9.1	9.5	10.7	10.2	9.4	10.1	13	10.5	9.7	8.6	10.7	11.1	9.4
Turbidity (NTU)	5	**98**	**78**	**67**	**-**	**40**	0	**76**	**33**	**43**	**36**	**59**	0	**215**	**79**	**56**	**9**	0	**20**	**10**	**100**	0
Redox	NS							-89														
Dissolved Oxygen (mg/L)	NS							3.95														
Part 360 Leachate Indicator Parameters																						
Ammonia-Nitrogen (mg/L)	2	**22**	**31**	**21**	**24**	**26**	**28**	**24**	**3.9**	**20**	**27**	**18**	**35 J**	**6.2**	**18**	**7.7**	1.5	1.8	**2.77**	**14**	**17.2**	**14.6**
Biochemical Oxygen Demand (BOD5) (mg/L)	NS	<4	7.7	8	<4	<10	180	5.2	<4	8	7.8	6.1	9.5	<10	8.4	<4	<4.0	<4.0	<2.0	6	<60	<12
Boron (mg/L)	1	0.55	0.83					0.73					0.73					<0.5	0.162			
Bromide (mg/L)	2	<0.1	0.3	<0.10	0.32	<0.1	0.55	<0.1	<0.1	0.25	0.26	0.27	0.29	<0.1	<0.1	<0.1	<0.1	<0.1	<1.0	<1.0	<1.0	<1.0
Chemical Oxygen Demand (mg/L)	NS	93	110	110	110	110	100	100	12	93	68	75	73	80	75	67	56	62	69.9	62	80	59
Chloride (mg/L)	250	24	33	28	29	35	47	31	3.6	22	31	23	29	5.2	20	5.5	4	<1.0	2.8	9.02	8.5	9.11
Color (Pt-Co)	15	**350**	**750**					**400**					**400**					12	**70**			
Nitrate-Nitrogen (mg/L)	10	<0.1	<0.1	<0.10	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.04	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.020	<0.020	<0.020	<0.02
Sulfate (mg/L)	250	5	4.8	2.8	4.4	5.2	5.9	5.6	7.7	3.6	2.1	3.3	3.2	1.9	3.4	5.2	7.8	<1.0	7.6	<2.0	<2.0	<2.0
Total Alkalinity (mg/L)	NS	300	350	320	320	340	420	330	120	330	370	300	370	210	320	220	150	300	160	265	310	275
Total Cyanide (mg/L)	0.2	<0.01	<0.01					<0.01					<0.01					<0.01	<0.010			
Total Dissolved Solids (mg/L)	500	360	430	400	430	440	490	420	190	340	390	370	470	280	340	320	250	330	270	272	340	330
Total Hardness (mg/L)	NS	200	210	180	210	210	220	160	100	180	210	460	190	170	190	160	150	190	174	205	193	191
Total Kjeldahl Nitrogen (mg/L)	NS	19	19	19	25	24	30	25	4.6	21	28	2	33	9.5	21	8.6	5.4	18	3.64	15.7	18.5	17.9
Total Organic Carbon (mg/L)	NS	38	41	38	43	39	42	40	25	36	36	34	34 J	33	37	34	26	34	29.8	27.9	27	27.8
Total Phenols (mg/L)	0.001	**0.0044**	**0.0021**	**0.0052**	**0.0021**	<0.05	<0.002	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	**0.099 J**	<0.003	<0.003	<0.002	<0.002	<0.002	<0.002
Part 360 Routine Metals																						
Cadmium (mg/L)	0.005	<0.01	<0.01	<0.010	<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	0.00018	<0.005	<0.005	<0.005
Calcium (mg/L)	NS	51	52	46	54	53	56	43	24	49	54	130	53	45	50	45	41	51	48.2	55.8	51.2	52.2
Iron (mg/L)	0.3*	**27**	**31**	**27**	**28**	**27**	**30**	**25**	**19**	**25**	**29**	**23**	**27**	**21**	**25**	**22**	**20**	**25**	**33.8**	**24.1**	**25.5**	**24.2**
Lead (mg/L)	0.025	<0.01	<0.01	0.01	0.012	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.013	0.019	<0.010	<0.01	0.005	<0.005	<0.005	0.007
Magnesium (mg/L)	35 (GV)	17	20	17	17	19	20	16	10	15	18	33	16	14	15	12	12	15	13.1	16.1	15.8	14.8
Manganese (mg/L)	0.3*	**0.62**	**0.65**	**0.57**	<0.01	**0.64**	**0.6**	**0.52**	**0.62**	**0.6**	**0.61**	**1.8**	**0.59**	**0.81**	**0.63**	**0.66**	**0.86**	**0.61**	**0.642**	**0.62**	**0.667**	**0.653**
Potassium (mg/L)	NS	26	34	26	29	14	31	27	7.9	23	34	4.4	26	10	23	12	7.8	24	13.1	22.2	25	19.1
Sodium (mg/L)	20	**25**	**36**	**28**	**50**	**32**	**38**	**29**	3.3	**24**	**32**	**36**	**24**	4.9	18	8.5	3.5	17	6.51	13.2	14.2	10.3
Part 360 Additional Baseline Metals																						
Aluminum (mg/L)	NS	1.4	2.6					1.4					2					0.88	0.811			
Antimony (mg/L)	0.003	<0.01	<0.01					<0.01					<0.01					<0.01	<0.020			
Arsenic (mg/L)	0.025	0.024	<0.01					<0.01					<0.01					<0.01	0.006			
Barium (mg/L)	1	0.22	0.31					<0.2					0.24					0.17	0.132			
Beryllium (mg/L)	0.003 (GV)	<0.01	<0.01					<0.01					<0.01					<0.01	0.00017			
Chromium (mg/L)	0.05	<0.01	<0.01					0.026					<0.01					<0.01	<0.005			
Chromium, Hexavalent (mg/L)	0.05	<0.01	<0.01					<0.01					<0.01					<0.01	<0.020			
Cobalt (mg/L)	NS	<0.01	<0.01					<0.01					<0.01					<0.01	<0.000			
Copper (mg/L)	0.2	<0.01	<0.01					<0.04					<0.01					<0.01	<0.003			
Mercury (mg/L)	0.0007	<0.0002	<0.0002					<0.0002					<0.0002					<0.0002	<0.00007			
Nickel (mg/L)	0.1	<0.01	<0.01					<0.01					<0.01					<0.01	<0.001			
Selenium (mg/L)	0.01	<0.01	<0.01					<0.01					<0.01					<0.01	<0.003			
Silver (mg/L)	0.05	<0.01	<0.01					<0.01					<0.01					<0.01	<0.003			
Thallium (mg/L)	0.0005 (GV)	<0.01	<0.01					<0.01					<0.01					<0.02	**0.025**			
Vanadium (mg/L)	NS	0.029	0.013					0.015					0.013					0.011	0.011			
Zinc (mg/L)	2	0.029	0.029					0.058					0.031					0.021	0.024			
Part 360 Volatile Organics																						
1,1,1,2-Tetrachloroethane (µg/L)	5	<1	<1					<1.0					<1					<1	<5.0			
1,1,1-Trichloroethane (µg/L)	5	<1	<1					<1.0					<1			1		<1	<5.0			
1,1,2,2-Tetrachloroethane (µg/L)	5	<1	<1					<1.0					<1					<1	<5.0			
1,1,2-Trichloroethane (µg/L)	1	<1	<1					<1.0					<1					<1	<5.0			
1,1-Dichloroethane (µg/L)	5	<1	<1					<1.0					<1					<1	<5.0			
1,1-Dichloroethene (µg/L)	5	<1	<1					<1.0					<1					<1	<5.0			
1,2,3-Trichloropropane (µg/L)	0.04	<1	<1					<1.0					<1					<1	<5.0			
1,2-Dibromo-3-chloropropane (µg/L)	0.04	<1	<1					<1.0					<1					<1	<10			
1,2-Dibromoethane (EDB) (µg/L)	5	<1	<1					<1.0					<1					<1	<5.0			

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

Parameter	NYSDEC Ground Water Standard	12/6/05	3/6/06	6/6/06	9/26/06	12/13/06	3/15/07	6/1/07	9/25/07	12/17/07	3/27/08	6/19/08	9/23/08	12/15/08	3/17/09	6/22/09	9/25/09	12/14/09	3/24/10	6/23/2010	9/22/2010	12/21/2010
1,2-Dichlorobenzene (µg/L)	3	<1	<1					<1.0					<1					<1	<5.0			
1,2-Dichloroethane (µg/L)	0.6	<1	<1					<1.0					<1					<1	<5.0			
1,2-Dichloropropane (µg/L)	1	<1	<1					<1.0					<1					<1	<5.0			
1,4-Dichlorobenzene (µg/L)	3	<1	<1					<1.0					<1					<1	<5.0			
2-Butanone (MEK) (µg/L)	50 (GV)	<5	<5					<5.0					<10					<10	<10			
2-Hexanone (µg/L)	50 (GV)	<5	<5					<5.0					<10					<10	<10			
4-Methyl 2-pentanone (µg/L)	NS	<5	<5					<5.0					<10					<10	<10			
Acetone (µg/L)	50 (GV)	<10	<5					<5.0					<10					<10	<10			
Acrylonitrile (µg/L)	5	<20	<40					<40					<20					<1	<25			
Benzene (µg/L)	1	**6.3**	**8.7**					**7.5**					**6**					**5.1**	<5.0			
Bromochloromethane (µg/L)	5	<1	<1					<1.0					<1					<1	<5.0			
Bromodichloromethane (µg/L)	50 (GV)	<1	<1					<1.0					<1					<1	<5.0			
Bromoform (µg/L)	50 (GV)	<1	<1					<1.0					<1					<1	<5.0			
Bromomethane (µg/L)	5	<1	<1					<1.0					<1					<1	<10			
Carbon disulfide (µg/L)	60 (GV)	<1	<1					<1.0					<1					<1	<5.0			
Carbon tetrachloride (µg/L)	5	<1	<1					<1.0					<1					<1	<5.0			
Chlorobenzene (µg/L)	5	4.1	3.9					3.2					<1					<1	2.7			
Chloroethane (µg/L)	5	<1	<1					<1.0					<1					<1	<10			
Chloroform (µg/L)	7	<1	<1					<1.0					<1					<1	<5.0			
Chloromethane (µg/L)	5	<1	<1					<1.0					<1					<1	<10			
cis-1,2-Dichloroethene (µg/L)	5	<1	<1					<1.0					<1					<1	<5.0			
cis-1,3-Dichloropropene (µg/L)	0.4**	<1	<1					<1.0					<1					<1	<5.0			
Dibromochloromethane (µg/L)	50 (GV)	<1	<1					<1.0					<1					<1	<5.0			
Dibromomethane (µg/L)	5	<1	<1					<1.0					<1					<1	<5.0			
Ethyl benzene (µg/L)	5	<1	<1					<1.0					<1					<1	<5.0			
Iodomethane (µg/L)	5	<5	<10					<1.0					<5					<5	<10			
Methylene Chloride (µg/L)	5	<5	<1					<1.0					<1					<1	<5.0			
Styrene (µg/L)	5	<1	<1					<1.0					<1					<1	<5.0			
Tetrachloroethene (µg/L)	5	<1	<1					<1.0					<1					<1	<5.0			
Toluene (µg/L)	5	<1	<1					<1.0					<1					<1	<5.0			
trans-1,2-Dichloroethene (µg/L)	5	<1	<1					<1.0					<1					<1	<5.0			
trans-1,3-Dichloropropene (µg/L)	0.4**	<1	<1					<1.0					<1					<1	<5.0			
trans-1,4-Dichloro-2-butene (µg/L)	5	<5	<10					<1.0					<5					<5	<10			
Trichloroethene (µg/L)	5	<1	<1					<1.0					<1					<1	<5.0			
Trichlorofluoromethane (µg/L)	5	<1	<1					<1.0					<1					<1	<5.0			
Vinyl Acetate (µg/L)	NS	<5	<10					<1.0					<5					<5	<10			
Vinyl Chloride (µg/L)	2	<1	<1					<1.0					<1					<1	<10			
Xylenes (Total) (µg/L)	5	**110**	**190**					**72**					**80**					**44**	<5.0			
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
7) J indicates estimated concentration due to QC sample recovery

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

Parameter	NYSDEC Ground Water Standard	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	12/16/04	3/22/05
Field Parameters																										
Conductivity (µmhos/cm)	NS	485	398	369	411	413	414	411	411	419	365	390	408	435	415	377	410	423	385	392	480	413	365	394	410	308
pH (s.u.)	6.5 - 8.5	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		7.3	7.17	7.5	7.5	6.98	6.78	6.95	7.3	7.57
Temperature (deg C)	NS	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	7	6.6
Turbidity (NTU)	5	**999**	**324**	**659**	**999**	**999**	**999**	**999**	**999**	**999**	**704**	**241**	**466**	**460**	**501**	**999**	**506**	**218**	**999**	**614**	**50**	**492**	**999**	**331**	**290**	**512**
Part 360 Leachate Indicator Parameters																										
Ammonia-Nitrogen (mg/L)	2	<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	<0.03	0.24
Biochemical Oxygen Demand (BOD5) (mg/L)	NS	<4.0	5	3.9	5	4.7	5.6	2.1	<4.0		<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	4.8	4.3
Boron (mg/L)	1		<0.1				<0.5	<0.5			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5			<0.5	<0.5	<0.5	<0.5		0.027		
Bromide (mg/L)	2	<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	<0.1	<0.100
Chemical Oxygen Demand (mg/L)	NS	160	120	26	76	64	74	160	120	96	120	72	75	290	75	87	64	57	120	67	75	120	120	79	86	140
Chloride (mg/L)	250	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	3.1	3.1
Color (Pt-Co)	15		**530**					**400**					**600**	**850**					**750**					**700**		
Nitrate-Nitrogen (mg/L)	10	<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	0.15	0.15
Sulfate (mg/L)	250	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	3	2.3
Total Alkalinity (mg/L)	NS	230	260	1400	260	270	240	270	280	230	260	240	210	240	250	230	250	240	250	220	240	220	240	210	18	220
Total Cyanide (mg/L)	0.2		<0.01					<0.01					<0.01	<0.01					<0.01					<0.01		
Total Dissolved Solids (mg/L)	500	420	260	360	340	340	390	420	400	360	380	240	430	360	340	330	380	390	360	340	320	360	250	370	290	350
Total Hardness (mg/L)	NS	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	110	440
Total Kjeldahl Nitrogen (mg/L)	NS	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	0.64	0.96
Total Organic Carbon (mg/L)	NS	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	28	26
Total Phenols (mg/L)	0.001	<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	<0.002	<0.010
Part 360 Routine Metals																										
Cadmium (mg/L)	0.005	**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	<0.01	<0.010
Calcium (mg/L)	NS	307	142	142	138	138	160	190	180	300	88	120	110	130	100	170	200	100	110	120	50	180	120	84	38	120
Iron (mg/L)	0.3*	**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**	**0.75**	**23**
Lead (mg/L)	0.025	**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	<0.01	<0.010
Magnesium (mg/L)	35 (GV)	**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	3.3	33
Manganese (mg/L)	0.3*	**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**	0.25	**1.6**
Potassium (mg/L)	NS	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	2.2	5.3
Sodium (mg/L)	20	**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**	**47**	**48**
Part 360 Additional Baseline Metals																										
Aluminum (mg/L)	NS		23.9					<0.01					12	12					18					1.4		
Antimony (mg/L)	0.003		<0.015					**0.048**					<0.01	<0.01					<0.01					<0.01		
Arsenic (mg/L)	0.025		<0.01					<0.01					0.016	0.019					**0.035**					<0.01		
Barium (mg/L)	1		0.201					0.23					<0.2	<0.2					0.2					<0.2		
Beryllium (mg/L)	0.003 (GV)		<0.003					<0.01					<0.01	<0.01					<0.01					<0.01		
Chromium (mg/L)	0.05		**0.0592**					<0.01					0.02	0.022					0.033					<0.01		
Chromium, Hexavalent (mg/L)	0.05		<0.01					<0.01					<0.01	<0.01					<0.01					<0.01		
Cobalt (mg/L)	NS		<0.02					0.024					<0.01	<0.01					0.014					<0.01		
Copper (mg/L)	0.2		0.0845					0.092					0.036	0.027					0.085					<0.01		
Mercury (mg/L)	0.0007		<0.0002					<0.0002					<0.0002	<0.0002					<0.0002					<0.0002		
Nickel (mg/L)	0.1		0.0726					0.071					0.027	0.034					0.042					0.014		
Selenium (mg/L)	0.01		<0.005					<0.01					<0.01	<0.01					<0.01					<0.01		
Silver (mg/L)	0.05		<0.01					<0.01					<0.01	<0.01					<0.01					<0.01		
Thallium (mg/L)	0.0005 (GV)		<0.01					<0.01					<0.01	<0.01					<0.01					<0.01		
Vanadium (mg/L)	NS		0.047					0.048					0.023	0.024					0.037					<0.01		
Zinc (mg/L)	2		0.184					0.2					0.063	0.081					0.13					0.022		
Part 360 Volatile Organics																										
1,1,1,2-Tetrachloroethane (µg/L)	5		<5.0					<5.0					<5.0	<5.0					<5					<1		
1,1,1-Trichloroethane (µg/L)	5		<5.0					<5.0					<5.0	<5.0			<5		<5					<1		
1,1,2,2-Tetrachloroethane (µg/L)	5		<5.0					<5.0					<5.0	<5.0			<5		<5					<1		
1,1,2-Trichloroethane (µg/L)	1		<5.0					<5.0					<5.0	<5.0			<5		<5					<1		
1,1-Dichloroethane (µg/L)	5		<5.0					<5.0					<5.0	<5.0			<5		<5					<1		
1,1-Dichloroethene (µg/L)	5		<5.0					<5.0					<5.0	<5.0			<5		<5					<1		
1,2,3-Trichloropropane (µg/L)	0.04							<5.0					<5.0	<5.0					<5					<1		
1,2-Dibromo-3-chloropropane (µg/L)	0.04		<10.0					<5.0					<5.0	<5.0					<5					<1		
1,2-Dibromoethane (EDB) (µg/L)	5		<5.0					<5.0					<5.0	<5.0					<5					<1		
1,2-Dichlorobenzene (µg/L)	3		<5.0					<5.0					<5.0	<5.0					<5					<1		
1,2-Dichloroethane (µg/L)	0.6		<5.0					<5.0					<5.0	<5.0			<5		<5					<1		

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

Parameter	NYSDEC Ground Water Standard	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	12/16/04	3/22/05
1,2-Dichloropropane (µg/L)	1		<5.0					<5.0					<5.0	<5.0				<5	<5					<1		
1,4-Dichlorobenzene (µg/L)	3		<5.0					<5.0					<5.0	<5.0					<5					<1		
2-Butanone (MEK) (µg/L)	50 (GV)		<10.0					<10.0					<10.0	<10.0				<10	<10					<10		
2-Hexanone (µg/L)	50 (GV)		<10.0					<10.0					<10.0	<10.0				<10	<10					<10		
4-Methyl 2-pentanone (µg/L)	NS		<10.0					<10.0					<10.0	<10.0				<10	<10					<10		
Acetone (µg/L)	50 (GV)		<10.0					<10.0					<10.0	<10.0				<10	<10					<10		
Acrylonitrile (µg/L)	5		<100.0					<20.0					<20.0	<20.0					<20					<5		
Benzene (µg/L)	1		<5.0					<5.0					<5.0	<5.0				<5	<5					<1		
Bromochloromethane (µg/L)	5		<5.0					<5.0					<5.0	<5.0					<5					<1		
Bromodichloromethane (µg/L)	50 (GV)		<5.0										<5.0	<5.0				<5	<5					<1		
Bromoform (µg/L)	50 (GV)		<5.0					<5.0					<5.0	<5.0				<5	<5					<1		
Bromomethane (µg/L)	5		<5.0					<5.0					<5.0	<5.0				<5	<5					<1		
Carbon disulfide (µg/L)	60 (GV)		<5.0					<5.0					<5.0	<5.0				<5	<5					<1		
Carbon tetrachloride (µg/L)	5		<5.0					<5.0					<5.0	<5.0				<5	<5					<1		
Chlorobenzene (µg/L)	5		<5.0					<5.0					<5.0	<5.0				<5	<5					<1		
Chloroethane (µg/L)	5		<5.0					<5.0					<5.0	<5.0				<5	<5					<1		
Chloroform (µg/L)	7		<5.0					<5.0					<5.0	<5.0				<5	<5					<1		
Chloromethane (µg/L)	5		<5.0					<5.0					<5.0	<5.0				<5	<5					<1		
cis-1,2-Dichloroethene (µg/L)	5		<5.0					<5.0					<5.0	<5.0					<5					<1		
cis-1,3-Dichloropropene (µg/L)	0.4**		<5.0					<5.0					<5.0	<5.0				<5	<5					<1		
Dibromochloromethane (µg/L)	50 (GV)		<5.0					<5.0					<5.0	<5.0				<5	<5					<1		
Dibromomethane (µg/L)	5		<5.0					<5.0					<5.0	<5.0					<5					<1		
Ethyl benzene (µg/L)	5		<5.0					<5.0					<5.0	<5.0				<5	<5					<1		
Iodomethane (µg/L)	5		<5.0					<20.0					<20.0	<10.0					<10					<10		
Methylene Chloride (µg/L)	5		<5.0					<10.0					<10.0	<10.0				<10	<10					<10		
Styrene (µg/L)	5							<5.0					<5.0	<5.0				<5	<5					<1		
Tetrachloroethene (µg/L)	5		<5.0					<5.0					<5.0	<5.0				<5	<5					<1		
Toluene (µg/L)	5		<5.0					<5.0					<5.0	<5.0				<5	<5					<1		
trans-1,2-Dichloroethene (µg/L)	5		<5.0					<5.0					<5.0	<5.0					<5					<1		
trans-1,3-Dichloropropene (µg/L)	0.4**		<5.0					<5.0					<5.0	<5.0				<5	<5					<1		
trans-1,4-Dichloro-2-butene (µg/L)	5		<10.0					<50.0					<50.0	<10.0					<10					<10		
Trichloroethene (µg/L)	5		<5.0					<5.0					<5.0	<5.0				<5	<5					<1		
Trichlorofluoromethane (µg/L)	5		<5.0					<5.0					<5.0	<5.0					<5					<1		
Vinyl Acetate (µg/L)	NS		<50.0					<20.0					<20.0	<20.0					<20					<5		
Vinyl Chloride (µg/L)	2		<5.0					<5.0					<5.0	<5.0				<5	<5					<1		
Xylenes (Total) (µg/L)	5		<5.0					<5.0					<5.0	<5.0				<5	<5					<1		
1,2-Dichloroethene - Total	5																	<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-9S
Ground Water Analytical Data

Parameter	NYSDEC Ground Water Standard	6/28/05	9/27/05	12/6/05	3/28/06	6/28/06	9/26/06	12/13/06	3/15/07	6/21/07	9/25/07	12/17/07	3/27/08	6/19/08	9/23/08	12/15/2008	3/17/2009	6/22/2009	9/25/2009	12/14/2009	3/24/2010	6/23/2010	9/22/2010
Field Parameters																							
Conductivity (µmhos/cm)	NS	404	404	380	390	350	391	375	387	367	354	385	394	383	361	415	388	377	378	392	397	389	372
pH (s.u.)	6.5 - 8.5	7.3	7.5	6.7	7.7	8.1	7.83	7.11	7.08	7.29	7.05	6.95	7.3	7.13	7.51	7.48	6.92	7.11	6.97	6.76	7.08	7.38	7.18
Temperature (deg C)	NS		12	8	7	14	12.5	9.3	6.7	11.4	11.7	7.1	5.2	10.2	12.4	6.6	6	11.5	11.5	8.1	6.5	11.2	13.1
Turbidity (NTU)	5	**614**	**206**	**270**	**480**	**37**	**-**	**70**	**385**	**80**	**43**	**45**	**25**	**83**	**26**	**80**	**203**	**12**	**15**	4	**30**	0	**148**
Part 360 Leachate Indicator Parameters																							
Ammonia-Nitrogen (mg/L)	2	0.31	0.26	0.18	0.18	0.24	0.19	0.14	0.13	0.2	0.14	<0.03	0.084	0.17	0.063	<0.03	0.094	0.22	0.15	0.25	1.44	<0.1	0.2
Biochemical Oxygen Demand (BOD5) (mg/L)	NS	4.6	6.2	<4	<4	<4.0	8.9	<4	<4	4	<4	<4	<5	<4	<4	<4	<4	<4	<4.0	<4.0	<2.0	2	<4.0
Boron (mg/L)	1			<0.5	<0.5					0.73					<0.5					<0.5	0.012		
Bromide (mg/L)	2	<0.1	<0.1	<0.1	<0.1	<0.10	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<1.0	<1.0	<1.0
Chemical Oxygen Demand (mg/L)	NS	65	66	78	58	79	97	65	83	77	48	48	47	52	43	57	39	39	40	36	49.7	38	59
Chloride (mg/L)	250	4.2	3.4	3.4	3.4	3.1	3.6	3	3.2	3.2	2.5	4	<2	3.3	2.7	3.6	3.2	3.1	3.2	3	1.2	1.05	<1.0
Color (Pt-Co)	15			**800**	**1,500**					**200**					**200**					**100**	**70**		
Nitrate-Nitrogen (mg/L)	10	0.13	<0.1	<0.1	<0.1	<0.10	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.04	0.15	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.26	<0.020	<0.020
Sulfate (mg/L)	250	3.2	1.8	3.3	7.5	5.4	2.3	3.8	5.6	2.9	1.6	4.6	9.7	7.2	3.2	5.8	5.2	9.4	3.3	3.8	14.3	5.18	<2.0
Total Alkalinity (mg/L)	NS	210	220	230	220	230	240	230	280	230	230	320	210	240	240	250	250	220	220	220	235	225	220
Total Cyanide (mg/L)	0.2			<0.01	<0.01					<0.01					<0.01					<0.01	<0.010		
Total Dissolved Solids (mg/L)	500	310	310	340	300	290	330	270	300	310	280	270	300	360	360	290	260	310	**2,100**	260	305	280	307
Total Hardness (mg/L)	NS	120	250	290	210	400	360	240	320	420	210	150	430	170	280	180	310	160	190	390	139	340	496
Total Kjeldahl Nitrogen (mg/L)	NS	0.89	0.59	0.59	0.38	0.63	1.1	6.1	0.82	0.66	0.65	0.49	0.64	1.3	0.64	0.55	0.67	0.81	0.66	0.59	<1.0	6.7	1.1
Total Organic Carbon (mg/L)	NS	28	25	25	22	26	25	22	25	22	24	19	19	24	20	17	22	20	20	16	18.7	18.7	19.5
Total Phenols (mg/L)	0.001	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.05	<0.002	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.002	<0.002	<0.002
Part 360 Routine Metals																							
Cadmium (mg/L)	0.005	<0.01	<0.01	<0.01	<0.01	<0.010	<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	0.00023	<0.005	<0.005
Calcium (mg/L)	NS	41	75	89	65	120	110	74	91	43	70	77	120	45	87	59	94	54	65	120	48.3	100	137
Iron (mg/L)	0.3*	**3.2**	**14**	**12**	**13**	**12**	**21**	**3.1**	**18**	**25**	**6.8**	**8.6**	**24**	**22**	**10**	**5.7**	**9.8**	**3.9**	**5.4**	**12**	**0.364**	**18.8**	**36.3**
Lead (mg/L)	0.025	**0.046**	**0.043**	<0.01	<0.01	0.014	0.021	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.014	<0.01	<0.010	<0.01	<0.002	<0.005	<0.005
Magnesium (mg/L)	35 (GV)	5.2	15	16	12	26	24	12	21	16	9.5	13	30	14	15	9	20	4.9	6.9	24	4.49	21.7	**37.3**
Manganese (mg/L)	0.3*	**0.35**	**0.89**	**0.86**	**0.76**	**1.4**	0.026	**0.68**	**1.1**	**0.52**	**0.71**	**0.81**	**1.7**	**0.51**	**0.95**	**0.57**	**1.2**	**0.47**	**0.58**	**1.3**	**0.466**	**1.34**	**1.97**
Potassium (mg/L)	NS	3.4	4.1	3.1	7	2.7	4	<1	4.4	3.2	2	3.1	3.7	27	2.9	4	3.6	3.1	2.4	2.4	2.13	4.31	5
Sodium (mg/L)	20	**43**	**30**	**26**	**51**	**34**	**37**	**34**	**44**	**29**	19	**31**	**43**	**21**	**45**	**37**	**32**	**42**	**25**	**31**	**32.3**	**29**	**20.8**
Part 360 Additional Baseline Metals																							
Aluminum (mg/L)	NS			5.6	9					1.4					3.9					4.8	0.132		
Antimony (mg/L)	0.003			<0.01	<0.01					<0.01					<0.01					<0.01	<0.020		
Arsenic (mg/L)	0.025			**0.029**	<0.01					<0.01					<0.01					<0.01	<0.002		
Barium (mg/L)	1			0.11	<0.2					0.23					<0.2					0.11	0.067		
Beryllium (mg/L)	0.003 (GV)			<0.01	<0.01					<0.01					<0.01					<0.01	<0.00014		
Chromium (mg/L)	0.05			0.012	0.017					0.013					<0.01					0.013	<0.005		
Chromium, Hexavalent (mg/L)	0.05			<0.01	<0.01					<0.01					<0.01					<0.01	<0.020		
Cobalt (mg/L)	NS			<0.01	<0.01					<0.01					<0.01					<0.01	<0.000		
Copper (mg/L)	0.2			0.02	0.033					0.019					0.018					0.074	0.018		
Mercury (mg/L)	0.0007			<0.0002	<0.0002					<0.0002					<0.0002					<0.0002	<0.00007		
Nickel (mg/L)	0.1			0.012	0.02					0.01					<0.01					0.02	0.007		
Selenium (mg/L)	0.01			<0.01	<0.01					<0.01					<0.01					<0.01	<0.003		
Silver (mg/L)	0.05			<0.01	<0.01					**0.05**					<0.01					<0.01	<0.003		
Thallium (mg/L)	0.0005 (GV)			<0.01	<0.01					<0.01					<0.01					<0.02	**0.021**		
Vanadium (mg/L)	NS			0.012	0.017					0.012					0.011					0.012	0.005		
Zinc (mg/L)	2			0.039	0.045					0.035					0.036					0.051	0.007		
Part 360 Volatile Organics																							
1,1,1,2-Tetrachloroethane (µg/L)	5			<1	<1					<1.0					<1					<1	<5.0		
1,1,1-Trichloroethane (µg/L)	5			<1	<1					<1.0					<1					<1	<5.0		
1,1,2,2-Tetrachloroethane (µg/L)	5			<1	<1					<1.0					<1					<1	<5.0		
1,1,2-Trichloroethane (µg/L)	1			<1	<1					<1.0					<1					<1	<5.0		
1,1-Dichloroethane (µg/L)	5			<1	<1					<1.0					<1					<1	<5.0		
1,1-Dichloroethene (µg/L)	5			<1	<1					<1.0					<1					<1	<5.0		
1,2,3-Trichloropropane (µg/L)	0.04			<1	<1					<1.0					<1					<1	<5.0		
1,2-Dibromo-3-chloropropane (µg/L)	0.04			<1	<1					<1.0					<1					<1	<10		
1,2-Dibromoethane (EDB) (µg/L)	5			<1	<1					<1.0					<1					<1	<5.0		
1,2-Dichlorobenzene (µg/L)	3			<1	<1					<1.0					<1					<1	<5.0		
1,2-Dichloroethane (µg/L)	0.6			<1	<1					<1.0					<1					<1	<5.0		

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

Parameter	NYSDEC Ground Water Standard	6/28/05	9/27/05	12/6/05	3/28/06	6/28/06	9/26/06	12/13/06	3/15/07	6/21/07	9/25/07	12/17/07	3/27/08	6/19/08	9/23/08	12/15/2008	3/17/2009	6/22/2009	9/25/2009	12/14/2009	3/24/2010	6/23/2010	9/22/2010
1,2-Dichloropropane (µg/L)	1			<1	<1					<1.0					<1					<1	<5.0		
1,4-Dichlorobenzene (µg/L)	3			<1	<1					<1.0					<1					<1	<5.0		
2-Butanone (MEK) (µg/L)	50 (GV)			<5	<5					<5.0					<10					<10	<10		
2-Hexanone (µg/L)	50 (GV)			<5	<5					<5.0					<10					<10	<10		
4-Methyl 2-pentanone (µg/L)	NS			<5	<5					<5.0					<10					<10	<10		
Acetone (µg/L)	50 (GV)			<10	<5					<5.0					<10					<10	<10		
Acrylonitrile (µg/L)	5			<20	<20					<20					<20					<20	<25		
Benzene (µg/L)	1			<1	<1					<1.0					<1					<1	<5.0		
Bromochloromethane (µg/L)	5			<1	<1					<1.0					<1					<1	<5.0		
Bromodichloromethane (µg/L)	50 (GV)			<1	<1					<1.0					<1					<1	<5.0		
Bromoform (µg/L)	50 (GV)			<1	<1					<1.0					<1					<1	<5.0		
Bromomethane (µg/L)	5			<1	<1					<1.0					<1					<1	<10		
Carbon disulfide (µg/L)	60 (GV)			<1	<1					<1.0					<1					<1	<5.0		
Carbon tetrachloride (µg/L)	5			<1	<1					<1.0					<1					<1	<5.0		
Chlorobenzene (µg/L)	5			<1	<1					<1.0					<1					<1	<5.0		
Chloroethane (µg/L)	5			<1	<1					<1.0					<1					<1	<10		
Chloroform (µg/L)	7			<1	<1					<1.0					<1					<1	<5.0		
Chloromethane (µg/L)	5			<1	<1					<1.0					<1					<1	<10		
cis-1,2-Dichloroethene (µg/L)	5			<1	<1					<1.0					<1					<1	<5.0		
cis-1,3-Dichloropropene (µg/L)	0.4**			<1	<1					<1.0					<1					<1	<5.0		
Dibromochloromethane (µg/L)	50 (GV)			<1	<1					<1.0					<1					<1	<5.0		
Dibromomethane (µg/L)	5			<1	<1					<1.0					<1					<1	<5.0		
Ethyl benzene (µg/L)	5			<1	<1					<1.0					<1					<1	<5.0		
Iodomethane (µg/L)	5			<5	<5					<5.0					<5					<5	<10		
Methylene Chloride (µg/L)	5			<5	<1					<1.0					<1					<1	<5.0		
Styrene (µg/L)	5			<1	<1					<1.0					<1					<1	<5.0		
Tetrachloroethene (µg/L)	5			<1	<1					<1.0					<1					<1	<5.0		
Toluene (µg/L)	5			<1	<1					<1.0					<1					<1	<5.0		
trans-1,2-Dichloroethene (µg/L)	5			<1	<1					<1.0					<1					<1	<5.0		
trans-1,3-Dichloropropene (µg/L)	0.4**			<1	<1					<1.0					<1					<1	<5.0		
trans-1,4-Dichloro-2-butene (µg/L)	5			<5	<5					<5.0					<5					<5	<10		
Trichloroethene (µg/L)	5			<1	<1					<1.0					<1					<1	<5.0		
Trichlorofluoromethane (µg/L)	5			<1	<1					<1.0					<1					<1	<5.0		
Vinyl Acetate (µg/L)	NS			<5	<5					<5.0					<5					<5	<10		
Vinyl Chloride (µg/L)	2			<1	<1					<1.0					<1					<1	<10		
Xylenes (Total) (µg/L)	5			<1	<1					<1.0					<1					<1	<5.0		
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-9S
Ground Water Analytical Data

Parameter	NYSDEC Ground Water Standard	12/21/2010
Field Parameters		
Conductivity (µmhos/cm)	NS	371
pH (s.u.)	6.5 - 8.5	**6.12**
Temperature (deg C)	NS	7.5
Turbidity (NTU)	5	**253**
Part 360 Leachate Indicator Parameters		
Ammonia-Nitrogen (mg/L)	2	<0.1
Biochemical Oxygen Demand (BOD5) (mg/L)	NS	<4.0
Boron (mg/L)	1	
Bromide (mg/L)	2	<1.0
Chemical Oxygen Demand (mg/L)	NS	34
Chloride (mg/L)	250	1.72
Color (Pt-Co)	15	
Nitrate-Nitrogen (mg/L)	10	<0.02
Sulfate (mg/L)	250	3.18
Total Alkalinity (mg/L)	NS	235
Total Cyanide (mg/L)	0.2	
Total Dissolved Solids (mg/L)	500	332
Total Hardness (mg/L)	NS	447
Total Kjeldahl Nitrogen (mg/L)	NS	<1.0
Total Organic Carbon (mg/L)	NS	18.6
Total Phenols (mg/L)	0.001	<0.002
Part 360 Routine Metals		
Cadmium (mg/L)	0.005	<0.005
Calcium (mg/L)	NS	126
Iron (mg/L)	0.3*	**31**
Lead (mg/L)	0.025	0.007
Magnesium (mg/L)	35 (GV)	32.3
Manganese (mg/L)	0.3*	**1.66**
Potassium (mg/L)	NS	4.91
Sodium (mg/L)	20	**27.9**
Part 360 Additional Baseline Metals		
Aluminum (mg/L)	NS	
Antimony (mg/L)	0.003	
Arsenic (mg/L)	0.025	
Barium (mg/L)	1	
Beryllium (mg/L)	0.003 (GV)	
Chromium (mg/L)	0.05	
Chromium, Hexavalent (mg/L)	0.05	
Cobalt (mg/L)	NS	
Copper (mg/L)	0.2	
Mercury (mg/L)	0.0007	
Nickel (mg/L)	0.1	
Selenium (mg/L)	0.01	
Silver (mg/L)	0.05	
Thallium (mg/L)	0.0005 (GV)	
Vanadium (mg/L)	NS	
Zinc (mg/L)	2	
Part 360 Volatile Organics		
1,1,1,2-Tetrachloroethane (µg/L)	5	
1,1,1-Trichloroethane (µg/L)	5	
1,1,2,2-Tetrachloroethane (µg/L)	5	
1,1,2-Trichloroethane (µg/L)	1	
1,1-Dichloroethane (µg/L)	5	
1,1-Dichloroethene (µg/L)	5	
1,2,3-Trichloropropane (µg/L)	0.04	
1,2-Dibromo-3-chloropropane (µg/L)	0.04	
1,2-Dibromoethane (EDB) (µg/L)	5	
1,2-Dichlorobenzene (µg/L)	3	
1,2-Dichloroethane (µg/L)	0.6	

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

Parameter	NYSDEC Ground Water Standard	12/21/2010
1,2-Dichloropropane (µg/L)	1	
1,4-Dichlorobenzene (µg/L)	3	
2-Butanone (MEK) (µg/L)	50 (GV)	
2-Hexanone (µg/L)	50 (GV)	
4-Methyl 2-pentanone (µg/L)	NS	
Acetone (µg/L)	50 (GV)	
Acrylonitrile (µg/L)	5	
Benzene (µg/L)	1	
Bromochloromethane (µg/L)	5	
Bromodichloromethane (µg/L)	50 (GV)	
Bromoform (µg/L)	50 (GV)	
Bromomethane (µg/L)	5	
Carbon disulfide (µg/L)	60 (GV)	
Carbon tetrachloride (µg/L)	5	
Chlorobenzene (µg/L)	5	
Chloroethane (µg/L)	5	
Chloroform (µg/L)	7	
Chloromethane (µg/L)	5	
cis-1,2-Dichloroethene (µg/L)	5	
cis-1,3-Dichloropropene (µg/L)	0.4**	
Dibromochloromethane (µg/L)	50 (GV)	
Dibromomethane (µg/L)	5	
Ethyl benzene (µg/L)	5	
Iodomethane (µg/L)	5	
Methylene Chloride (µg/L)	5	
Styrene (µg/L)	5	
Tetrachloroethene (µg/L)	5	
Toluene (µg/L)	5	
trans-1,2-Dichloroethene (µg/L)	5	
trans-1,3-Dichloropropene (µg/L)	0.4**	
trans-1,4-Dichloro-2-butene (µg/L)	5	
Trichloroethene (µg/L)	5	
Trichlorofluoromethane (µg/L)	5	
Vinyl Acetate (µg/L)	NS	
Vinyl Chloride (µg/L)	2	
Xylenes (Total) (µg/L)	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 v
6) ** Indicates standard applies to the sum of the isomers

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

Parameter	NYSDEC Ground Water Standard	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	12/16/04	3/22/05	6/28/05	9/27/05	12/6/05	3/28/06	6/28/06	9/26/06	12/13/06	3/15/07	6/21/07	9/25/07	12/17/07	3/27/08
Field Parameters																										
Conductivity (µmhos/cm)	NS	4,940	4,970	5,440	3,780	4,050	4,810	5,600	4,300	4,810	5,990	3,480	4,743	5,320	4,787	4,570	3,600	5,800	6,400	2,110	5,160	1,420	3,860	5,410	6,070	4,780
pH (s.u.)	6.5 - 8.5	**6.48**	6.63	7		6.6	6.5	6.78	**6.4**	6.59	**6.14**	**6.22**	6.5	7.03	6.57	6.99	**6.3**	7	8	7.17	6.69	**6**	6.57	6.59	6.65	6.71
Temperature (deg C)	NS	12.8	15.2	17.2	10.4	7.6	19.7	15.8	9	12.8	16	16.8	10	13		15.5	12	14	18	15.1	13.5	11.3	16	15.4	10.2	13.5
Turbidity (NTU)	5	**356**	**183**	**585**	**164**	**207**	**383**	**47**	**430**	**189**	**10**	**73**	**189**	**246**	**236**	**100**	**68**	**168**	**600**	**-**	**81**	0	**67**	**101**	**134**	**60**
Redox	NS																						-80			
Dissolved Oxygen (mg/L)	NS																						2.66			
Part 360 Leachate Indicator Parameters																										
Ammonia-Nitrogen (mg/L)	2	**200**	**260**	**270**	**200**	**280**	**280**	**270**	**230**	**380**	**350**	**160**	**260**	**290**	**300**	**300**	**230**	**340**	**330**	**160**	**280**	**60**	**320**	**350**	**290**	**260**
Biochemical Oxygen Demand (BOD5) (mg/L)	NS	38	24	46	34	30	20	36	43	28	32	31	41	<4.0	31	36	24	39	36	36	35	<20	40	30	31	29
Boron (mg/L)	1	**2.5**	**2.7**	**3.7**			**3.4**	**4.4**	**1.6**	**3.8**		**1.7**					**2.3**	**3.8**					**2.3**			
Bromide (mg/L)	2	**2.6**	**3**	**3.9**	1.9	**2.1**	**3.2**	**3.8**	**2.3**	**3.7**	**4.2**	**2.5**	**3.3**	**4.2**	**2.7**	**3**	**2.2**	**17**	<0.10	1.6	**5.9**	<0.1	**3.9**	**3.5**	**2.1**	**2.7**
Chemical Oxygen Demand (mg/L)	NS	420	250	3,200	270	340	490	640	270	300	470	290	490	670	440	430	240	240	71	200	560	105	105	700	420	380
Chloride (mg/L)	250	**440**	**430**	**610**	**380**	200	**450**	**550**	**260**	**450**	**600**	**280**	**410**	**560**	**410**	**470**	**340**	**570**	**600**	220	**590**	67	**650**	**580**	**410**	**560**
Color (Pt-Co)	15	**1,400**					**600**					**950**					**500**	**1,500**					**1,000**			
Nitrate-Nitrogen (mg/L)	10	<0.1	0.16	0.17	<0.1	<0.1	0.15	0.76	0.54	<0.1	<0.1	0.2	0.28	0.27	0.19	<0.1	<0.1	<0.1	<0.10	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2
Sulfate (mg/L)	250	2.9	2.2	3.6	2.2	2.3	2.5	<1	2.3	3.6	1.4	2.1	2	1.8	2.3	60	<1	2.5	2.8	2.2	<1	3.1	3.1	1.8	26	<10
Total Alkalinity (mg/L)	NS	1,700	1,900	2,200	1,500	1,600	1,800	2,000	1,500	2,000	2,100	1,900	1,900	2,400	2,500	1,200	1,900	2,400	2,700	1,400	2,900	570	2,000	2,200	1,600	1,700
Total Cyanide (mg/L)	0.2	<0.01					<0.01					<0.01					<0.01	<0.01					<0.01			
Total Dissolved Solids (mg/L)	500	**1,900**	**2,100**	**2,500**	**1,500**	**1,400**	**2,200**	**2,500**	**1,200**	**2,200**	**2,400**	**1,700**	**1,900**	**2,700**	**2,000**	**2,100**	**1,800**	**2,600**	**2,600**	**1,200**	**2,700**	**590**	**2,600**	**2,300**	**1,900**	**2,400**
Total Hardness (mg/L)	NS	580	580	690	480	550	750	790	430	700	590	480	520	660	670	450	600	740	690	460	800	270	310	690	530	670
Total Kjeldahl Nitrogen (mg/L)	NS	290	220	320	220	280	300	330	350	330	380	260	220	310	270	260	210	330	390	150	280	60	280	350	270	270
Total Organic Carbon (mg/L)	NS	160	150	230	99	120	120	230	110	180	240	75	160	230	200	120	13	210	270	84	180	28	230	240	160	210
Total Phenols (mg/L)	0.001	**0.016**	**0.02**	**0.015**	**0.026**	<0.002	**0.015**	**0.013**	**0.017**	**0.017**	**0.021**	**0.02**	**0.016**	<0.01	<0.002	**0.0022**	<0.002	<0.002	<0.002	<0.002	<0.05	**0.0062**	**0.013**	**0.015**	0.02	**0.011**
Part 360 Routine Metals																										
Cadmium (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	<0.010	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Calcium (mg/L)	NS	120	120	140	100	110	150	150	91	120	110	110	97	110	120	91	120	120	130	100	130	73	100	120	120	130
Iron (mg/L)	0.3*	**62**	**60**	**70**	**48**	**58**	**61**	**68**	**52**	**38**	**47**	**49**	**35**	**45**	**35**	**45**	**34**	**35**	**49**	**39**	**16**	**32**	**38**	**35**	**55**	**41**
Lead (mg/L)	0.025	**0.049**	**0.031**	**0.04**	0.022	**0.041**	<0.01	0.014	0.022	**0.028**	<0.01	<0.01	<0.01	0.017	<0.01	**0.26**	0.014	**0.03**	**0.036**	0.021	<0.01	<0.01	<0.01	<0.01	<0.01	0.01
Magnesium (mg/L)	35 (GV)	**68**	**67**	**83**	**53**	**65**	**94**	**100**	**50**	**96**	**75**	**53**	**67**	**92**	**92**	**54**	**74**	**110**	**91**	**51**	**110**	20	**65**	**88**	**54**	**85**
Manganese (mg/L)	0.3*	**1.3**	**1.5**	**2.4**	**1.6**	**1.5**	**1.7**	**2.7**	**1.3**	**0.74**	**1.5**	**1.6**	**0.85**	**1**	**0.62**	**1.4**	**0.76**	**0.55**	**1.2**	0.029	0.26	**0.98**	**0.98**	**1.2**	**1.1**	**70**
Potassium (mg/L)	NS	190	200	340	180	230	230	410	220	350	330	320	380	330	320	280	250	280	300	160	240	40	370	380	170	310
Sodium (mg/L)	20	**430**	**460**	**600**	**250**	**270**	**420**	**630**	**250**	**500**		**230**	**470**	**580**	**410**	**270**	**380**	**370**	**490**	**230**	**580**	**50**	**430**	**520**	**200**	**450**
Part 360 Additional Baseline Metals																										
Aluminum (mg/L)	NS	2.4					0.9					0.28					0.96	1.4					0.93			
Antimony (mg/L)	0.003	<0.01					<0.01					**0.012**					<0.01	<0.01					<0.01			
Arsenic (mg/L)	0.025	0.02					**0.038**					0.022					**0.03**	<0.01					<0.01			
Barium (mg/L)	1	<0.2					0.32					0.25					0.47	0.75					0.37			
Beryllium (mg/L)	0.003 (GV)	<0.01					<0.01					<0.01					<0.01	<0.01					<0.01			
Chromium (mg/L)	0.05	0.031					0.019					<0.01					0.017	0.02					<0.01			
Chromium, Hexavalent (mg/L)	0.05	<0.01					<0.01					<0.01					0.013	<0.01					0.017			
Cobalt (mg/L)	NS	0.012					0.017					<0.01					0.012	0.018					0.021			
Copper (mg/L)	0.2	0.052					0.013					<0.01					0.018	**0.024**					<0.04			
Mercury (mg/L)	0.0007	0.0002					<0.0002					<0.0002					<0.0002	<0.0002					<0.0002			
Nickel (mg/L)	0.1	0.062					0.049					0.024					0.029	0.046					0.036			
Selenium (mg/L)	0.01	<0.01					<0.01					<0.01					<0.01	**0.013**					<0.01			
Silver (mg/L)	0.05	<0.01					<0.01					<0.01					<0.01	<0.01					**0.057**			
Thallium (mg/L)	0.0005 (GV)	<0.01					<0.01					<0.01					<0.01	<0.01					<0.01			
Vanadium (mg/L)	NS	<0.01					0.012					0.013					0.013	0.025					0.032			
Zinc (mg/L)	2	0.16					0.11					0.099					0.052	0.061					0.089			
Part 360 Volatile Organics																										
1,1,1,2-Tetrachloroethane (µg/L)	5	<5.0					<5					<1					<5	<5					<5.0			
1,1,1-Trichloroethane (µg/L)	5	<5.0				<5	<5					<1					<5	<5					<5.0			
1,1,2,2-Tetrachloroethane (µg/L)	5	<5.0				<5	<5					<1					<5	<5					<5.0			
1,1,2-Trichloroethane (µg/L)	1	<5.0				<5	<5					<1					<5	<5					<5.0			
1,1-Dichloroethane (µg/L)	5	<5.0				<5	<5					<1					<5	<5					<5.0			
1,1-Dichloroethene (µg/L)	5	<5.0				<5	<5					<1					<5	<5					<5.0			
1,2,3-Trichloropropane (µg/L)	0.04	<5.0					<5					<1					<5	<5					<5.0			

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

Parameter	NYSDEC Ground Water Standard	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	12/16/04	3/22/05	6/28/05	9/27/05	12/6/05	3/28/06	6/28/06	9/26/06	12/13/06	3/15/07	6/21/07	9/25/07	12/17/07	3/27/08
1,2-Dibromo-3-chloropropane (µg/L)	0.04	<5.0					<5					<1					<5	<5					<5.0			
1,2-Dibromoethane (EDB) (µg/L)	5	<5.0					<5					<1					<5	<5					<5.0			
1,2-Dichlorobenzene (µg/L)	3	<5.0					<5					<1					<5	<5					<5.0			
1,2-Dichloroethane (µg/L)	0.6	<5.0				<5	<5					<1					<5	<5					<5.0			
1,2-Dichloropropane (µg/L)	1	<5.0				<5	<5					<1					<5	<5					<5.0			
1,4-Dichlorobenzene (µg/L)	3	<5.0					<5					**3.7**					<5	<5					<5.0			
2-Butanone (MEK) (µg/L)	50 (GV)	<10.0				<10	<10					<10					<20	<50					<5.0			
2-Hexanone (µg/L)	50 (GV)	<10.0				<10	<10					<10					<20	<50					<5.0			
4-Methyl 2-pentanone (µg/L)	NS	<10.0					<10					<10					<20	<50					<5.0			
Acetone (µg/L)	50 (GV)	18				28	13					<10					<50	<50					<5.0			
Acrylonitrile (µg/L)	5	<20.0					<20					<5					<100	<200					<200			
Benzene (µg/L)	1	**5.5**				**5.7**	<5					**5**					**6.2**	**7.7**					**7**			
Bromochloromethane (µg/L)	5	<5.0					<5					<1					<5	<5					<5.0			
Bromodichloromethane (µg/L)	50 (GV)	<5.0				<5	<5					<1					<5	<5					<5.0			
Bromoform (µg/L)	50 (GV)	<5.0				<5	<5					<1					<5	<5					<5.0			
Bromomethane (µg/L)	5	<5.0				<5	<5					<1					<5	<5					<5.0			
Carbon disulfide (µg/L)	60 (GV)	<5.0				<5	<5					<1					<5	<5					<5.0			
Carbon tetrachloride (µg/L)	5	<5.0				<5	<5					<1					<5	<5					<5.0			
Chlorobenzene (µg/L)	5	<5.0				<5	<5					4.1					**5.3**	<5					<5.0			
Chloroethane (µg/L)	5	**33**				**33**	**22**					**22**					**24**	**20**					<5.0			
Chloroform (µg/L)	7	<5.0				<5	<5					<1					<5	<5					<5.0			
Chloromethane (µg/L)	5	<5.0				<5	<5					<1					<5	<5					<5.0			
cis-1,2-Dichloroethene (µg/L)	5	<5.0					<5					<1					<5	<5					<5.0			
cis-1,3-Dichloropropene (µg/L)	0.4**	<5.0				<5	<5					<1					<5	<5					<5.0			
Dibromochloromethane (µg/L)	50 (GV)	<5.0				<5	<5					<1					<5	<5					<5.0			
Dibromomethane (µg/L)	5	<5.0					<5					<1					<5	<5					<5.0			
Ethyl benzene (µg/L)	5	**29**				<5	<5					<1					<5	<5					<5.0			
Iodomethane (µg/L)	5	<10.0					<10					<10					<20	<50					<5.0			
Methylene Chloride (µg/L)	5	<10.0				<10	<10					<10					<20	<5					<5.0			
Styrene (µg/L)	5	<5.0				<5	<5					<1					<5	<5					<5.0			
Tetrachloroethene (µg/L)	5	<5.0				<5	<5					<1					<5	<5					<5.0			
Toluene (µg/L)	5	<5.0				<5	<5					<1					<5	<5					<5.0			
trans-1,2-Dichloroethene (µg/L)	5	<5.0					<5					<1					<5	<5					<5.0			
trans-1,3-Dichloropropene (µg/L)	0.4**	<5.0				<5	<5					<1					<5	<5					<5.0			
trans-1,4-Dichloro-2-butene (µg/L)	5	<10.0					<10					<10					<20	<50					<5.0			
Trichloroethene (µg/L)	5	<5.0				<5	<5					<1					<5	<5					<5.0			
Trichlorofluoromethane (µg/L)	5	<5.0					<5					<1					<5	<5					<5.0			
Vinyl Acetate (µg/L)	NS	<20.0					<20					<5					<20	<50					<5.0			
Vinyl Chloride (µg/L)	2	<5.0				<5	<5					<1					<5	<5					<5.0			
Xylenes (Total) (µg/L)	5	**75**				**96**	**28**					**63**					**69**	**26**					**63**			
1,2-Dichloroethene - Total	5					<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
7) J indicates estimated concentration based on QC data

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

Parameter	NYSDEC Ground Water Standard	6/19/08	9/23/08	12/15/2008	3/17/2009	6/22/2009	9/25/2009	12/14/2009	3/24/2010	6/23/2010	9/22/2010	12/21/2010
Field Parameters												
Conductivity (µmhos/cm)	NS	4,430	5,160	4,590	5,050	5,100	1,450	1260	5,660	4,430	5,290	2850
pH (s.u.)	6.5 - 8.5	**6.44**	6.93	7.4	**6.35**	6.5	6.6	**6.08**	**6.43**	7.77	7.53	6.68
Temperature (deg C)	NS	14.9	15.3	13	13.9	14	14.5	11.8	11.5	15.5	14.3	10.4
Turbidity (NTU)	5	**51**	0	**27**	**35**	**35**	**180**	**10**	**16**	**57**	**96**	**10**
Redox	NS											
Dissolved Oxygen (mg/L)	NS											
Part 360 Leachate Indicator Parameters												
Ammonia-Nitrogen (mg/L)	2	**320**	**260**	**280**	**260**	**49**	**270**	**54**	**310**	**148**	**235**	**158**
Biochemical Oxygen Demand (BOD5) (mg/L)	NS	32	52	36	46	12	40	20	22	29	>175	35
Boron (mg/L)	1		**2.8**					<0.5	**1.03**			
Bromide (mg/L)	2	**3.3**	**4.1**	**3.3**	**3**	<0.1	**4.3**	<0.1	<1.0	<1.0	**2.62**	<1.0
Chemical Oxygen Demand (mg/L)	NS	590	140	490	430	56	430	64	635	507	613	258
Chloride (mg/L)	250	**540**	**610**	**540**	**580**	34	**520**	83	**250**	**508**	**516**	188
Color (Pt-Co)	15		**400**					**25**	**70**			
Nitrate-Nitrogen (mg/L)	10	0.2	0.22	<0.1	<0.1	<0.1	<0.1	<0.1	1.56	0.16	<0.020	<0.02
Sulfate (mg/L)	250	1.9	2	<1	2	<1	2.7	<1.0	<1.0	<2.0	<2.0	<2.0
Total Alkalinity (mg/L)	NS	2,200	2,400	2,300	2,300	210	1,900	620	2,200	2,100	2,300	1210
Total Cyanide (mg/L)	0.2		0.01					<0.01	<0.010			
Total Dissolved Solids (mg/L)	500	**2,200**	**2,700**	**2,400**	**2,300**	430	300	**610**	**1,240**	**2,160**	**2,300**	**1,090**
Total Hardness (mg/L)	NS	590	570	610	630	240	750	340	358	730	724	379
Total Kjeldahl Nitrogen (mg/L)	NS	310	270	260	260	53	260	54	25.2	260	231	171
Total Organic Carbon (mg/L)	NS	230	210	200	200	23	120	37	220	194	183	66.6
Total Phenols (mg/L)	0.001	**0.016**	**0.014**	**0.01**	**0.012**	**0.086 J**	**0.009**	0.01	**0.003**	0.007	0.018	**0.01**
Part 360 Routine Metals												
Cadmium (mg/L)	0.005	<0.01	<0.01	<0.01	<0.01	<0.01	<0.010	<0.01	<0.00013	<0.005	<0.005	<0.005
Calcium (mg/L)	NS	120	120	100	120	70	130	100	85.3	122	125	69.2
Iron (mg/L)	0.3*	**55**	**40**	**32**	**38**	**41**	**43**	**47**	**33.9**	**26.9**	**35.6**	**30.2**
Lead (mg/L)	0.025	<0.01	<0.01	<0.01	0.03	0.017	**0.046**	<0.01	<0.002	<0.005	<0.005	0.014
Magnesium (mg/L)	35 (GV)	**69**	**78**	**87**	**79**	16	**100**	22	**35.2**	**103**	**100**	**35**
Manganese (mg/L)	0.3*	**1.5**	**0.69**	**0.34**	**0.4**	**0.73**	**0.43**	**1**	**0.678**	0.269	**0.387**	**0.759**
Potassium (mg/L)	NS	220	270	250	330	28	390	39	101	368	222	99.2
Sodium (mg/L)	20	**330**	**340**	**350**	**450**	**31**	**670**	**55**	**112**	**371**	**346**	**124**
Part 360 Additional Baseline Metals												
Aluminum (mg/L)	NS		0.91					0.34	0.106			
Antimony (mg/L)	0.003		<0.01					<0.01	<0.020			
Arsenic (mg/L)	0.025		<0.01					<0.01	<0.002			
Barium (mg/L)	1		0.51					0.17	0.302			
Beryllium (mg/L)	0.003 (GV)		<0.01					<0.01	<0.00014			
Chromium (mg/L)	0.05		<0.01					<0.01	<0.005			
Chromium, Hexavalent (mg/L)	0.05		0.016					<0.01	<0.020			
Cobalt (mg/L)	NS		0.013					<0.01	0.005			
Copper (mg/L)	0.2		<0.01					0.011	<0.003			
Mercury (mg/L)	0.0007		<0.0002					<0.0002	<0.00007			
Nickel (mg/L)	0.1		0.042					0.019	0.016			
Selenium (mg/L)	0.01		<0.01					<0.01	<0.003			
Silver (mg/L)	0.05		<0.01					<0.01	<0.003			
Thallium (mg/L)	0.0005 (GV)		<0.01					<0.02	**0.038**			
Vanadium (mg/L)	NS		0.023					<0.01	<0.005			
Zinc (mg/L)	2		0.072					0.026	0.005			
Part 360 Volatile Organics												
1,1,1,2-Tetrachloroethane (µg/L)	5		<1					<1	<5.0			
1,1,1-Trichloroethane (µg/L)	5		<1					<1	<5.0			
1,1,2,2-Tetrachloroethane (µg/L)	5		<1					<1	<5.0			
1,1,2-Trichloroethane (µg/L)	1		<1					<1	<5.0			
1,1-Dichloroethane (µg/L)	5		<1					<1	<5.0			
1,1-Dichloroethene (µg/L)	5		<1					<1	<5.0			
1,2,3-Trichloropropane (µg/L)	0.04		<1					<1	<5.0			

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

Parameter	NYSDEC Ground Water Standard	6/19/08	9/23/08	12/15/2008	3/17/2009	6/22/2009	9/25/2009	12/14/2009	3/24/2010	6/23/2010	9/22/2010	12/21/2010
1,2-Dibromo-3-chloropropane (µg/L)	0.04		<1					<1	<10			
1,2-Dibromoethane (EDB) (µg/L)	5		<1					<1	<5.0			
1,2-Dichlorobenzene (µg/L)	3		<1					<1	<5.0			
1,2-Dichloroethane (µg/L)	0.6		<1					<1	<5.0			
1,2-Dichloropropane (µg/L)	1		<1					<1	<5.0			
1,4-Dichlorobenzene (µg/L)	3		1.4					**6.6**	<5.0			
2-Butanone (MEK) (µg/L)	50 (GV)		<10					<10	<10			
2-Hexanone (µg/L)	50 (GV)		<10					<10	<10			
4-Methyl 2-pentanone (µg/L)	NS		<10					<10	<10			
Acetone (µg/L)	50 (GV)		16					16	11			
Acrylonitrile (µg/L)	5		<20					<20	<25			
Benzene (µg/L)	1		**5.9**					**6.3**	**5.6**			
Bromochloromethane (µg/L)	5		<1					<1	<5.0			
Bromodichloromethane (µg/L)	50 (GV)		<1					<1	<5.0			
Bromoform (µg/L)	50 (GV)		<1					<1	<5.0			
Bromomethane (µg/L)	5		<1					<1	<10			
Carbon disulfide (µg/L)	60 (GV)		<1					<1	<5.0			
Carbon tetrachloride (µg/L)	5		<1					<1	<5.0			
Chlorobenzene (µg/L)	5		1.3					**9.7**	<5.0			
Chloroethane (µg/L)	5		**7.3**					**21**	**15**			
Chloroform (µg/L)	7		<1					<1	<5.0			
Chloromethane (µg/L)	5		<1					<1	<10			
cis-1,2-Dichloroethene (µg/L)	5		<1					<1	<5.0			
cis-1,3-Dichloropropene (µg/L)	0.4**		<1					<1	<5.0			
Dibromochloromethane (µg/L)	50 (GV)		<1					<1	<5.0			
Dibromomethane (µg/L)	5		<1					<1	<5.0			
Ethyl benzene (µg/L)	5		<1					1.3	<5.0			
Iodomethane (µg/L)	5		<5					<5	<10			
Methylene Chloride (µg/L)	5		<1					<1	<5.0			
Styrene (µg/L)	5		<1					<1	<5.0			
Tetrachloroethene (µg/L)	5		<1					<1	<5.0			
Toluene (µg/L)	5		<1					<1	<5.0			
trans-1,2-Dichloroethene (µg/L)	5		<1					<1	<5.0			
trans-1,3-Dichloropropene (µg/L)	0.4**		<1					<1	<5.0			
trans-1,4-Dichloro-2-butene (µg/L)	5		<5					<5	<10			
Trichloroethene (µg/L)	5		<1					<1	<5.0			
Trichlorofluoromethane (µg/L)	5		<1					<1	<5.0			
Vinyl Acetate (µg/L)	NS		<5					<5	<10			
Vinyl Chloride (µg/L)	2		<1					<1	<10			
Xylenes (Total) (µg/L)	5		4.2					**85**	**15**			
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
7) J indicates estimated concentration based on QC data

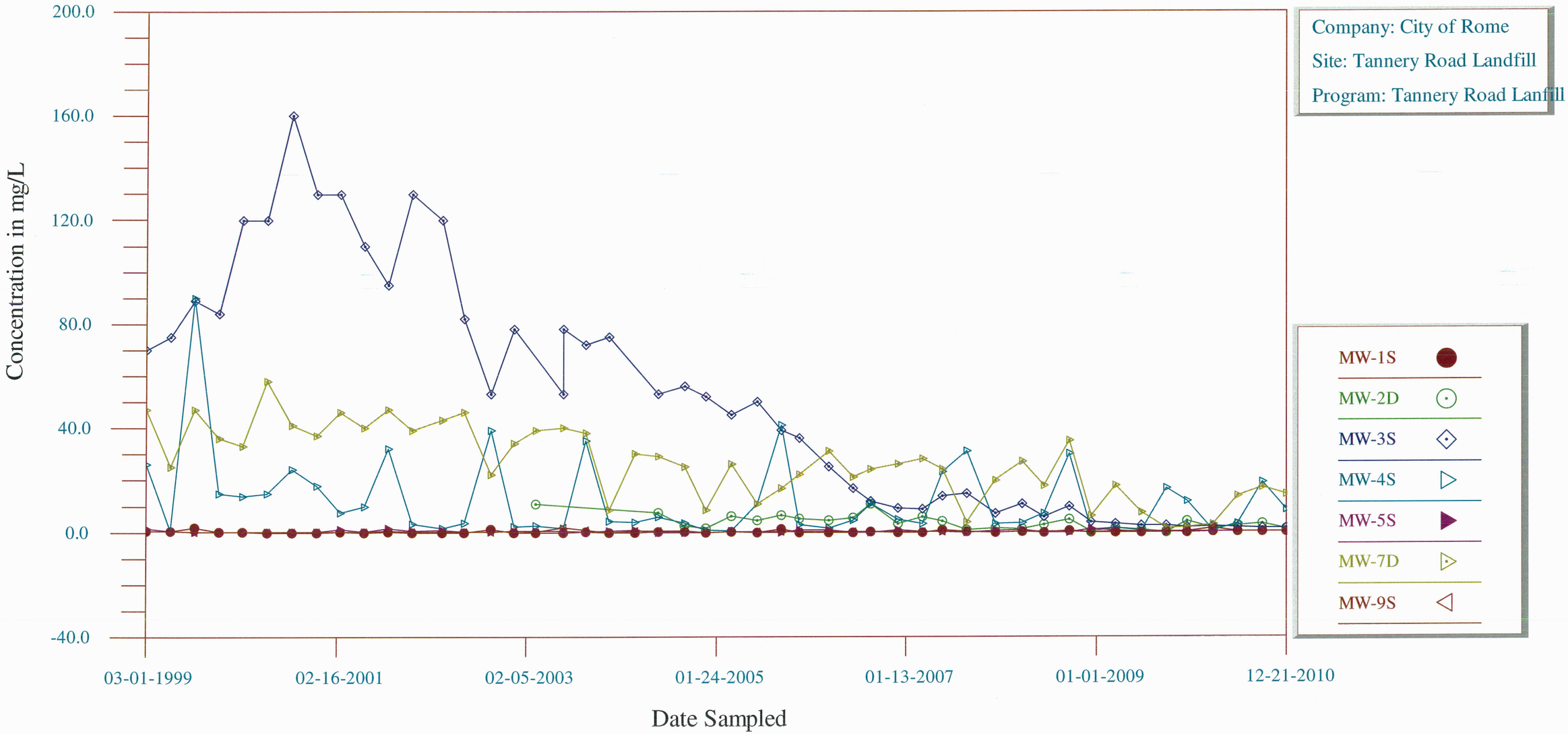
APPENDIX C

MONITORING WELL AND LEACHATE WELL

TIME SERIES CONCENTRATION GRAPHS

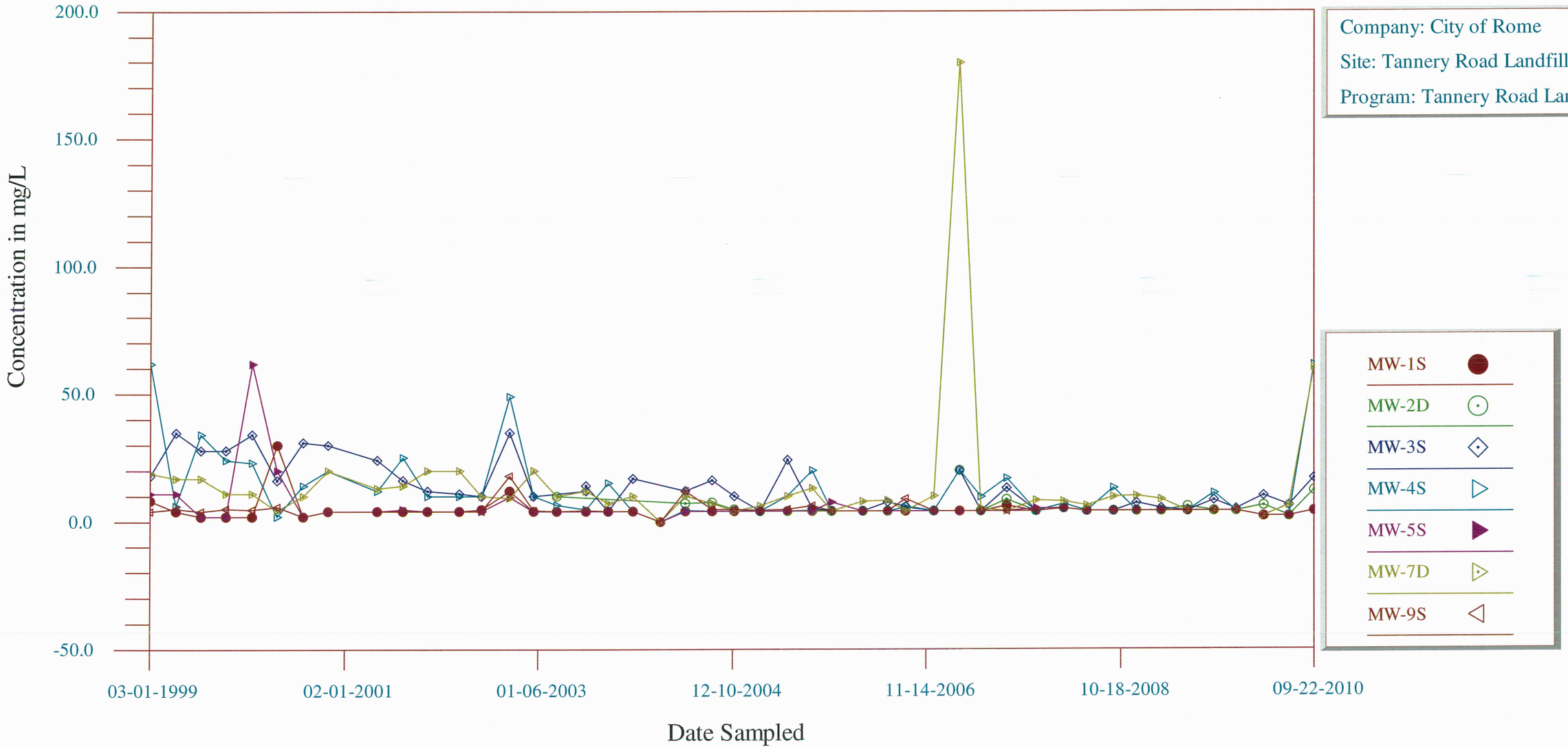
Time-Series Plot

Ammonia-Nitrogen



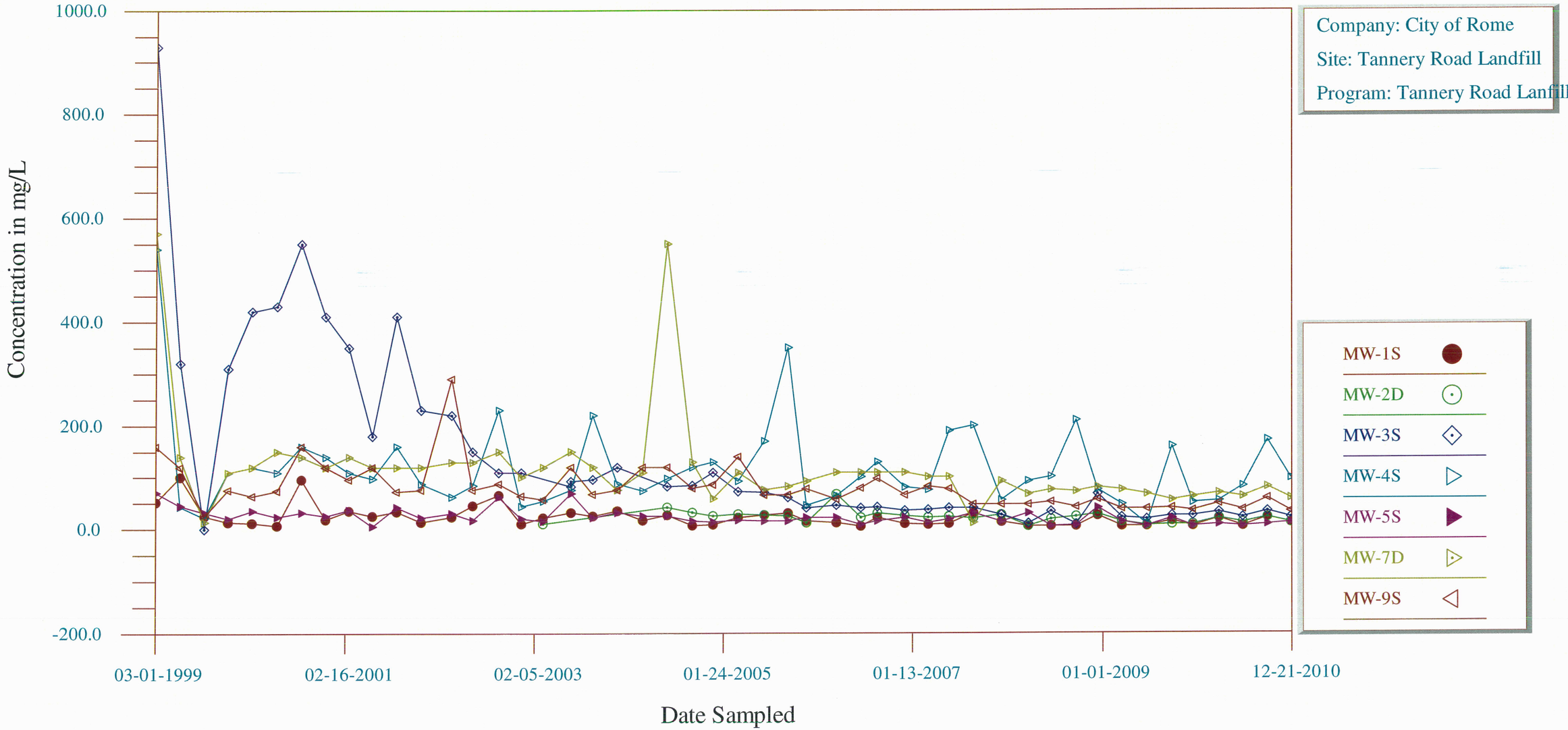
Time-Series Plot

Biochemical Oxygen Demand (BOD5)



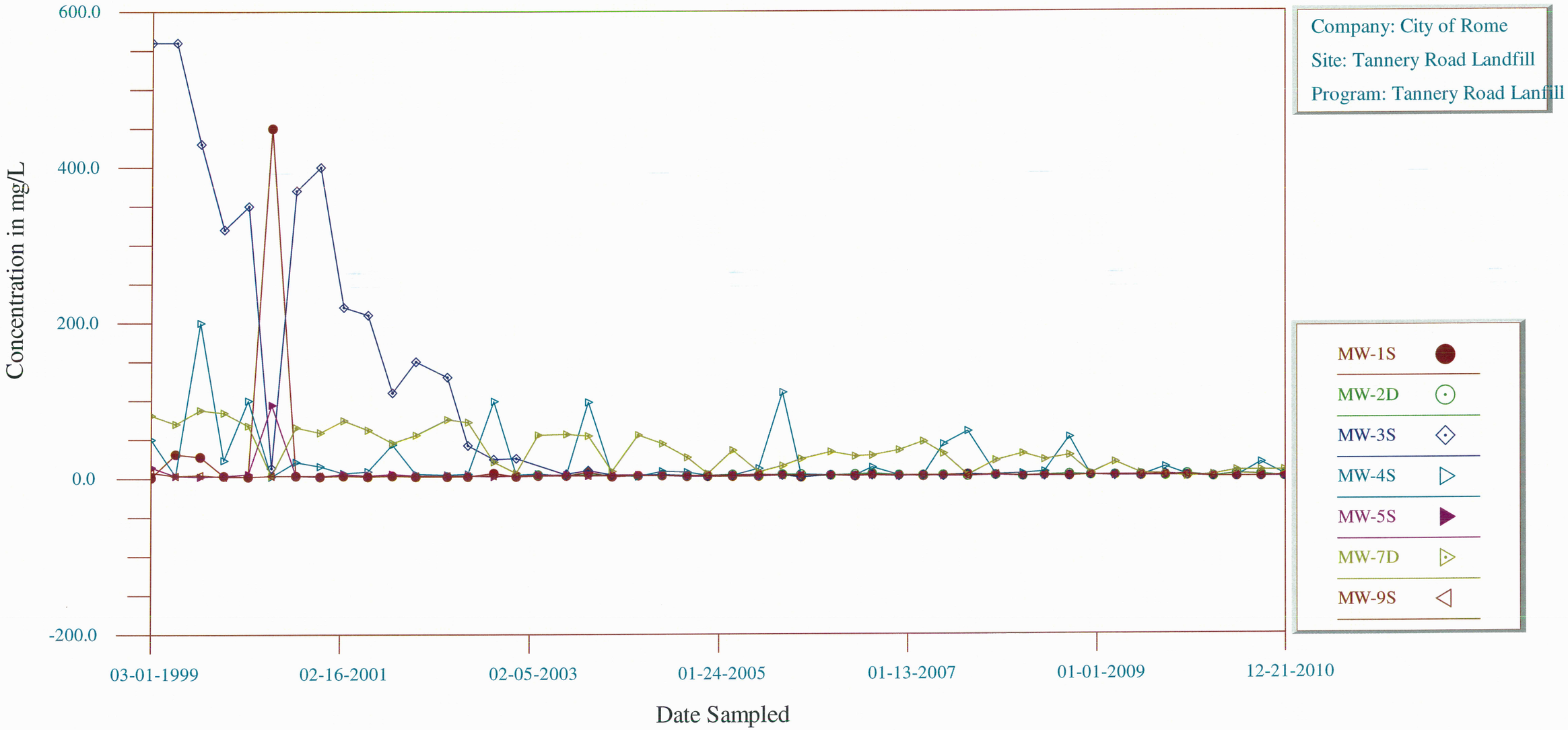
Time-Series Plot

Chemical Oxygen Demand



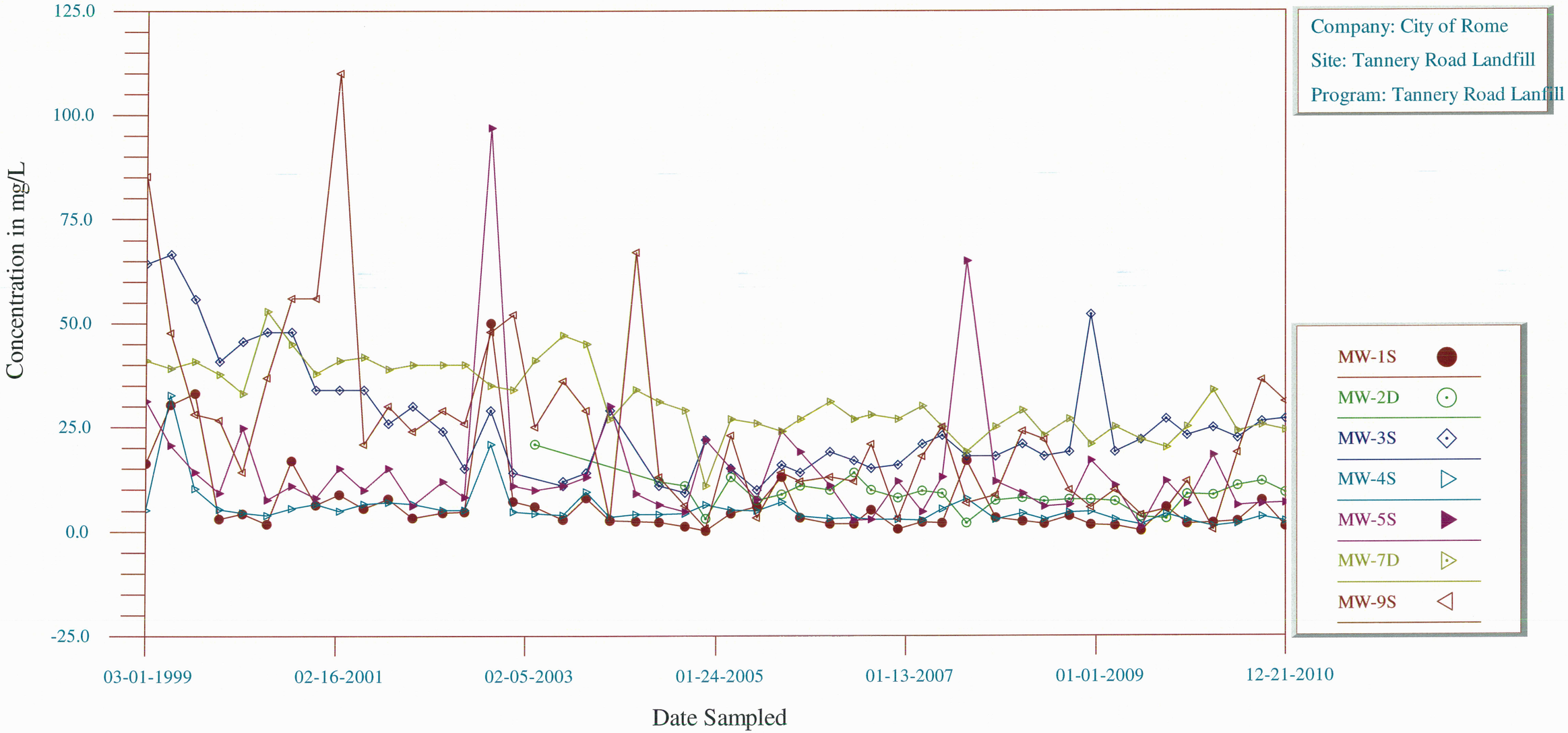
Time-Series Plot

Chloride



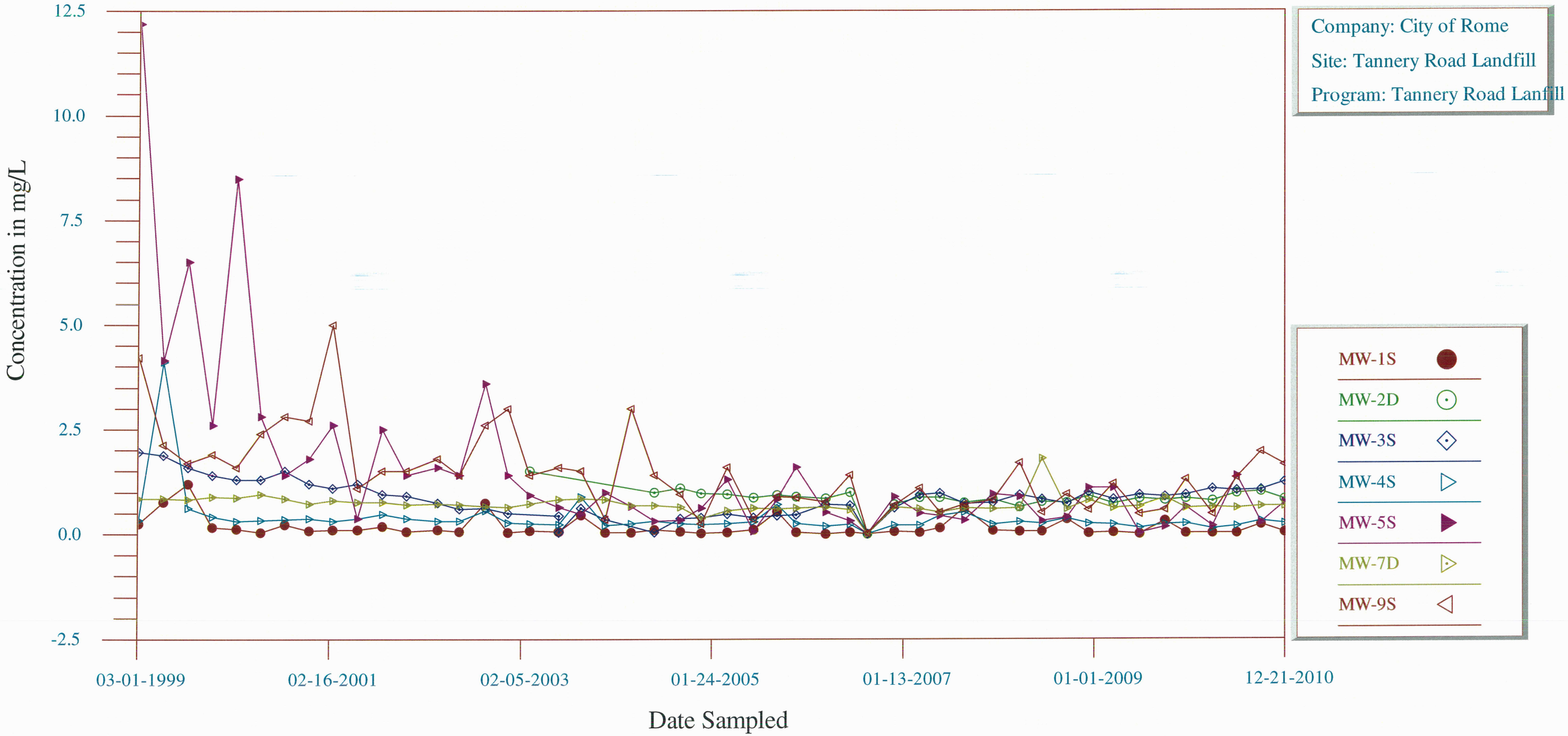
Time-Series Plot

Iron



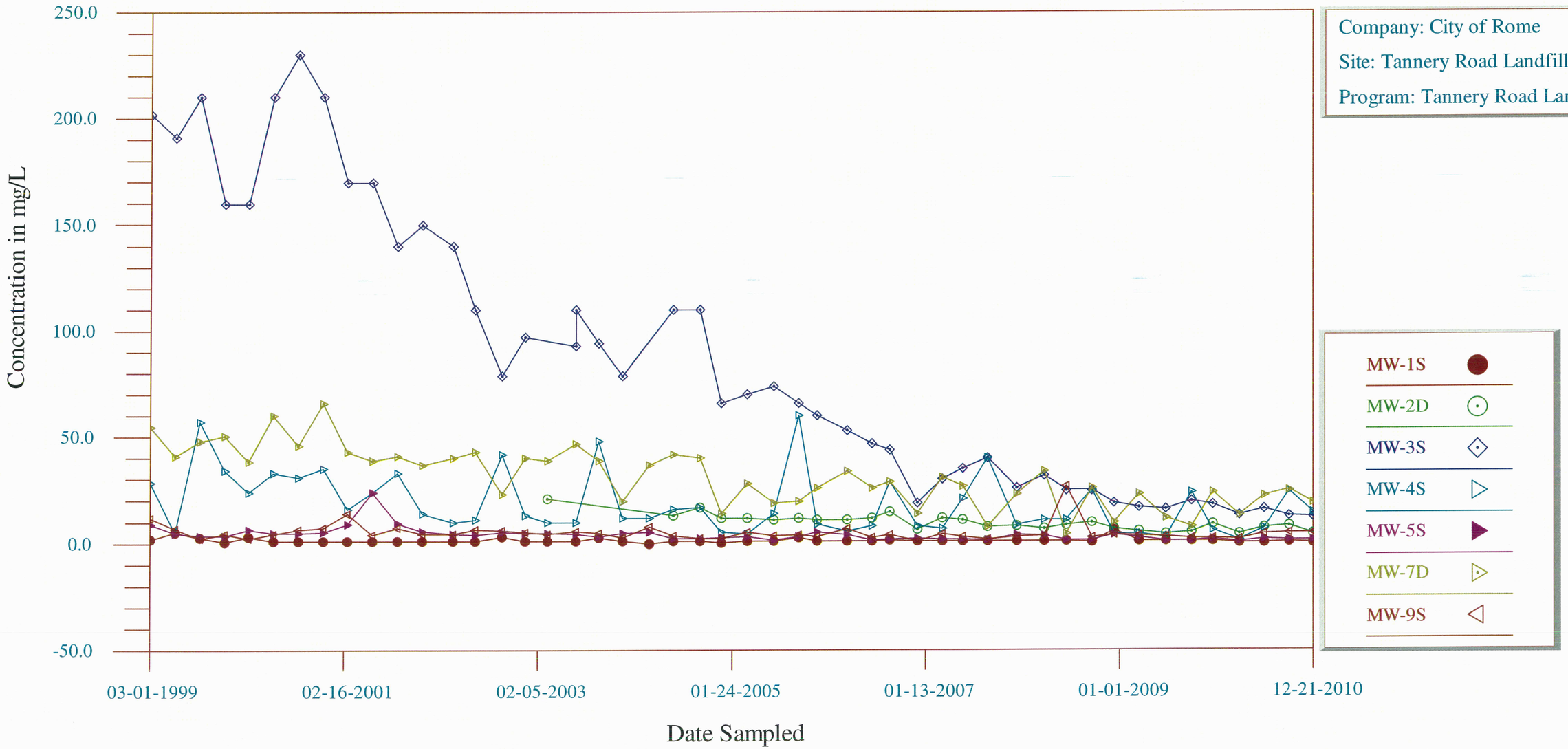
Time-Series Plot

Manganese



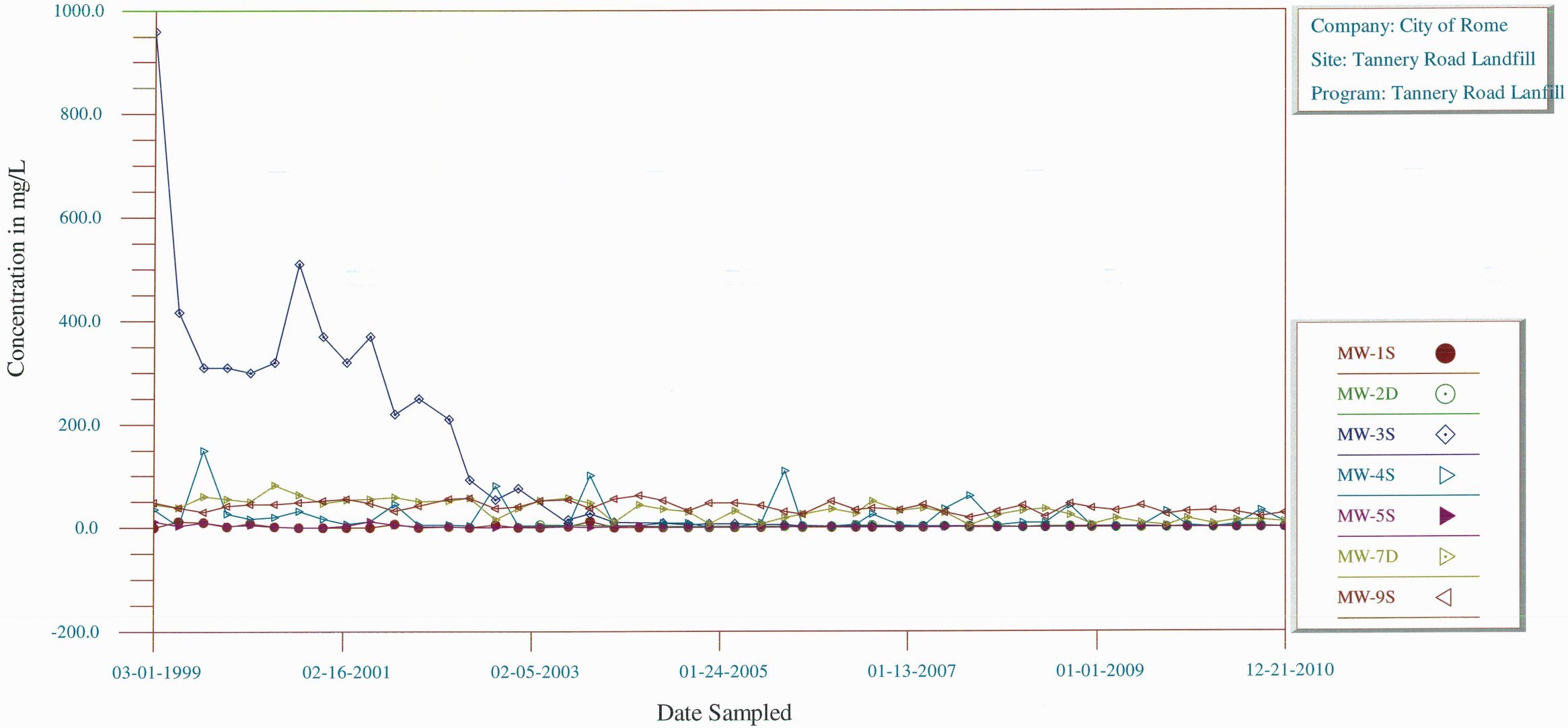
Time-Series Plot

Potassium



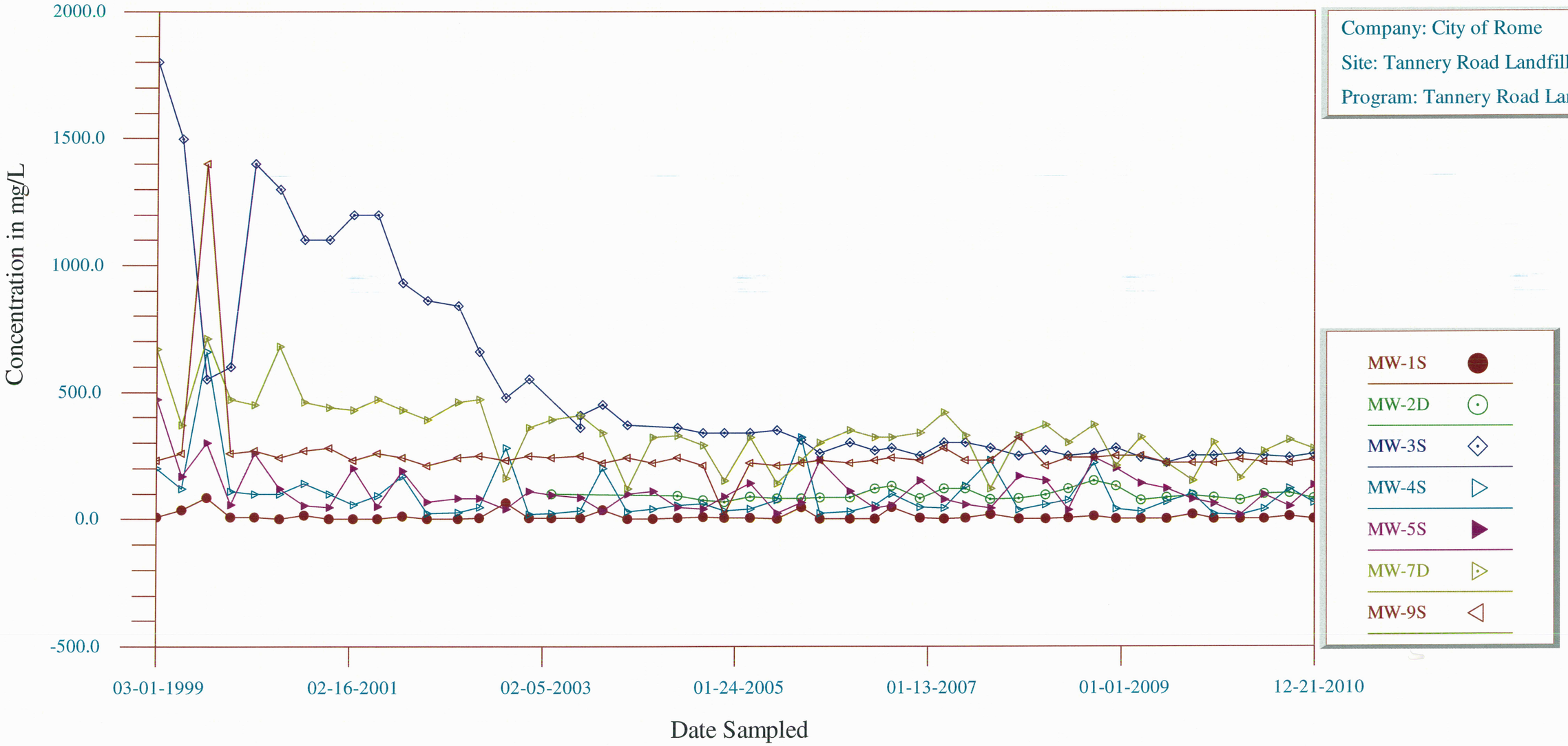
Time-Series Plot

Sodium



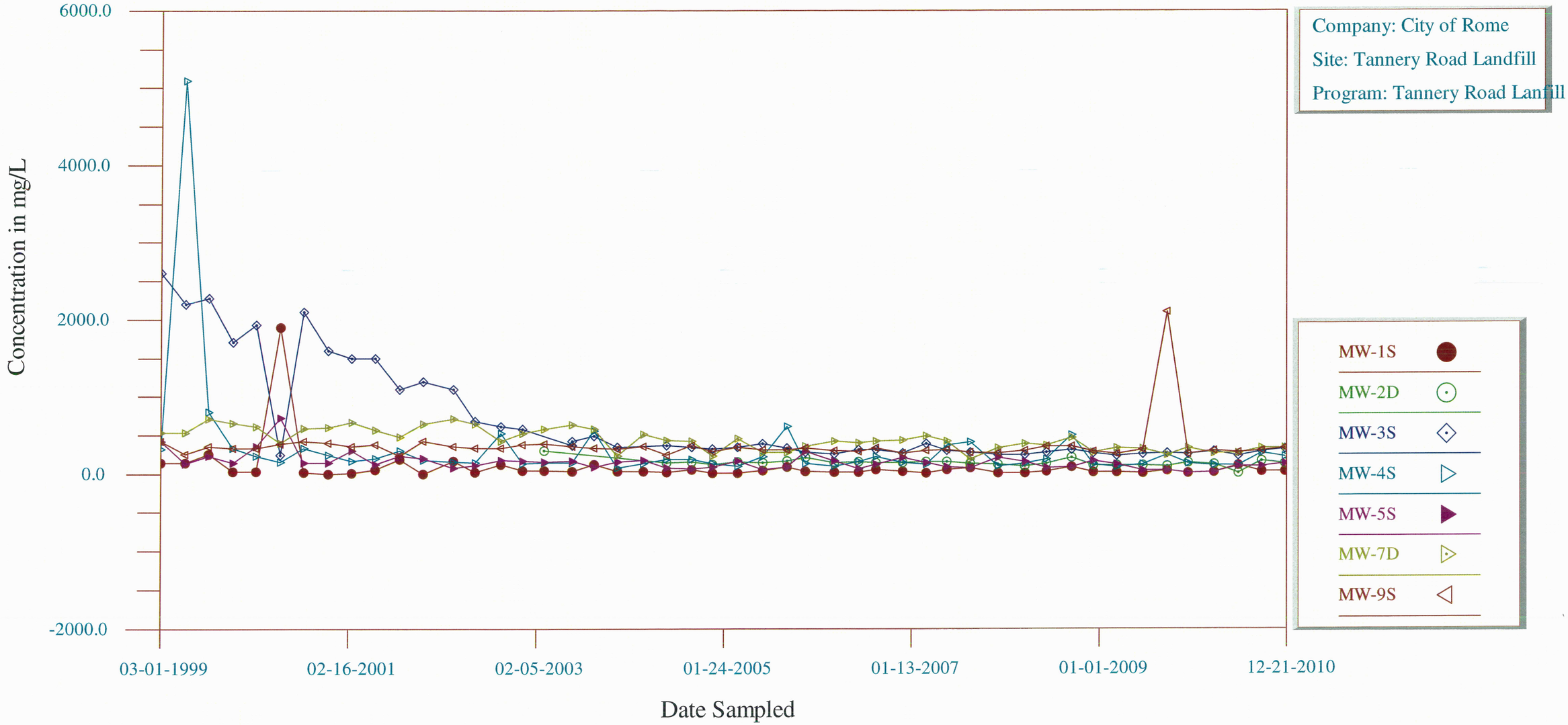
Time-Series Plot

Total Alkalinity



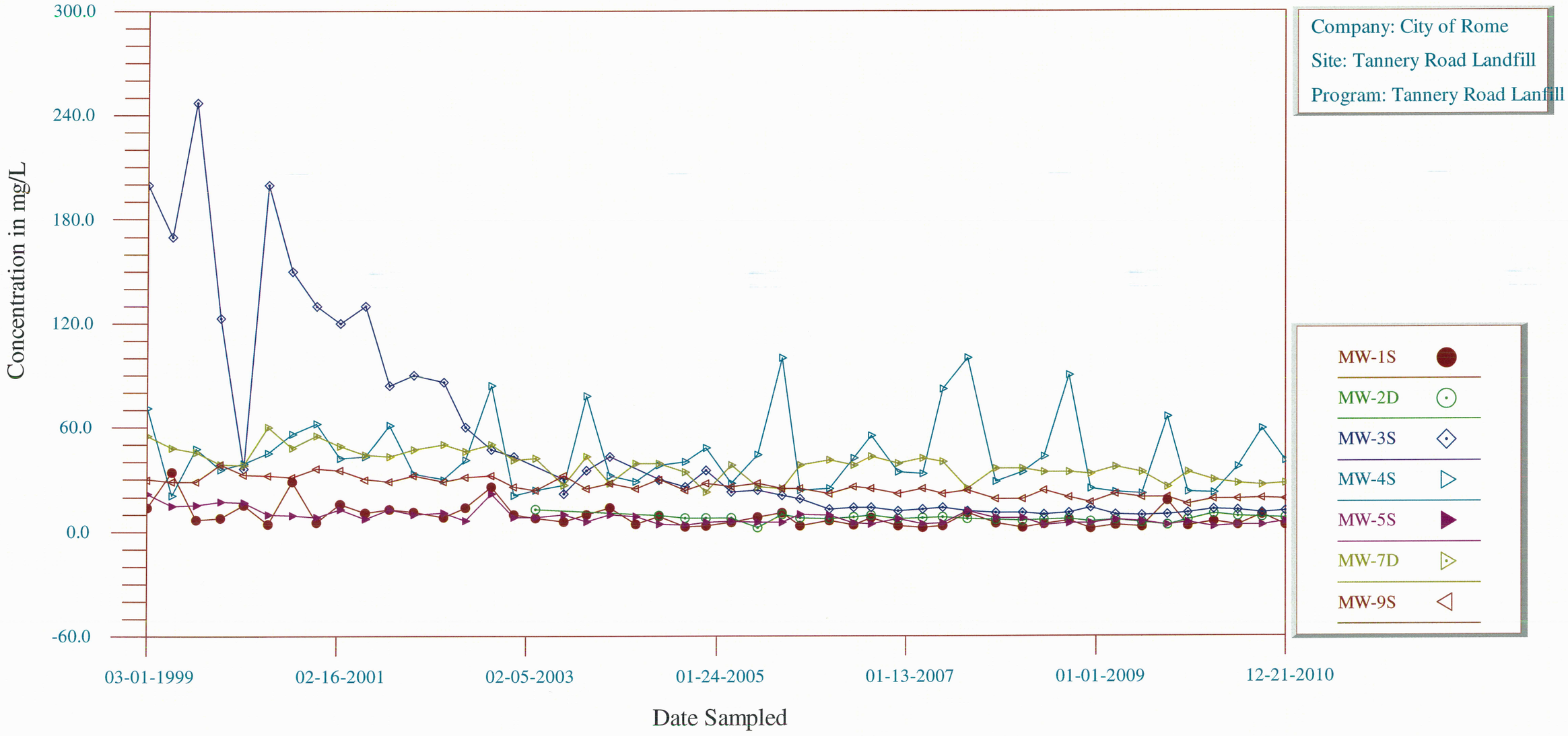
Time-Series Plot

Total Dissolved Solids



Time-Series Plot

Total Organic Carbon



APPENDIX D

MONITORING WELL AND LEACHATE WELL

GROUND WATER ELEVATION GRAPHS

MW-1S Ground Water Elevations

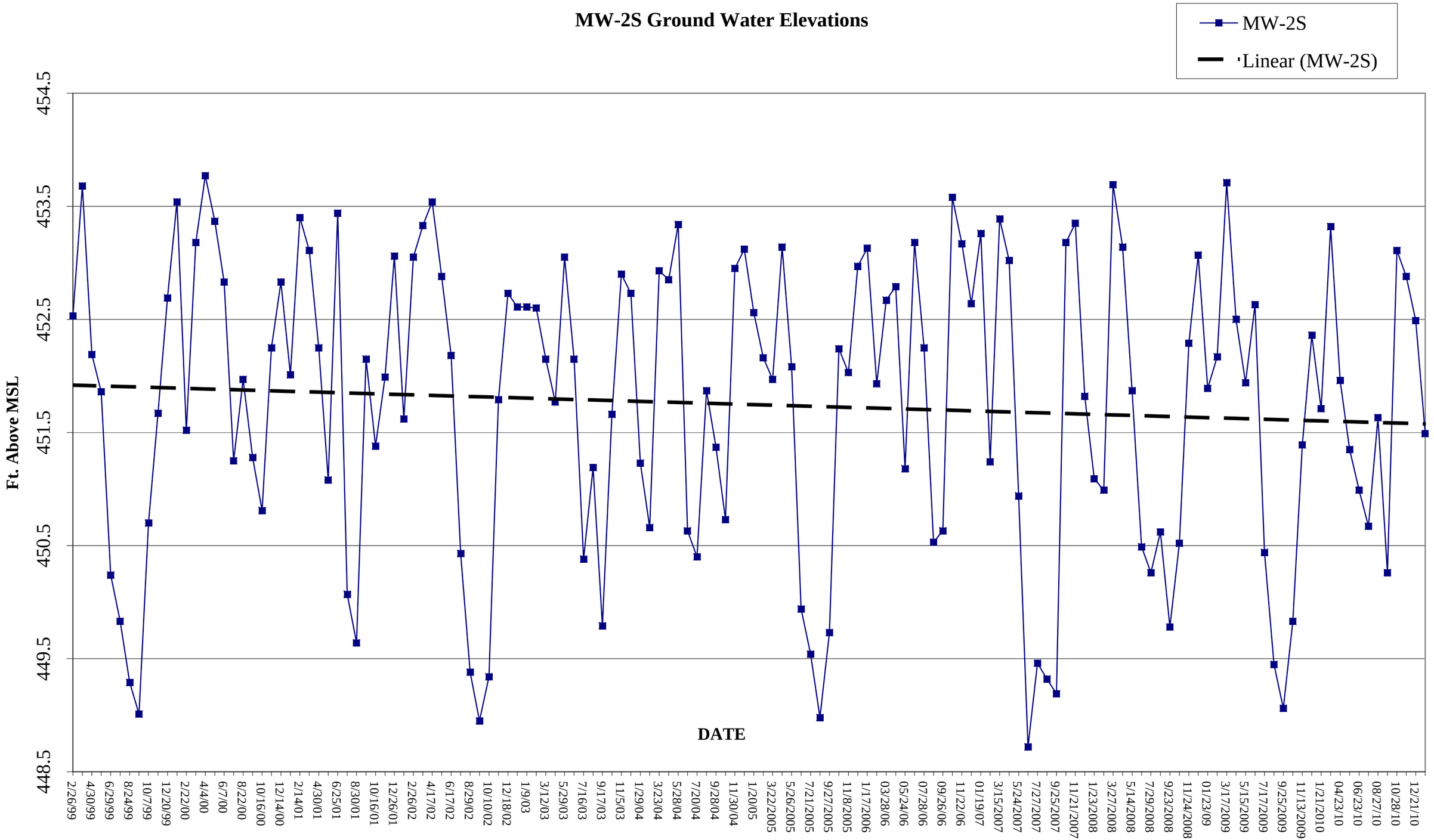
MW-1S
Linear (MW-1S)

Ft. Above MSL

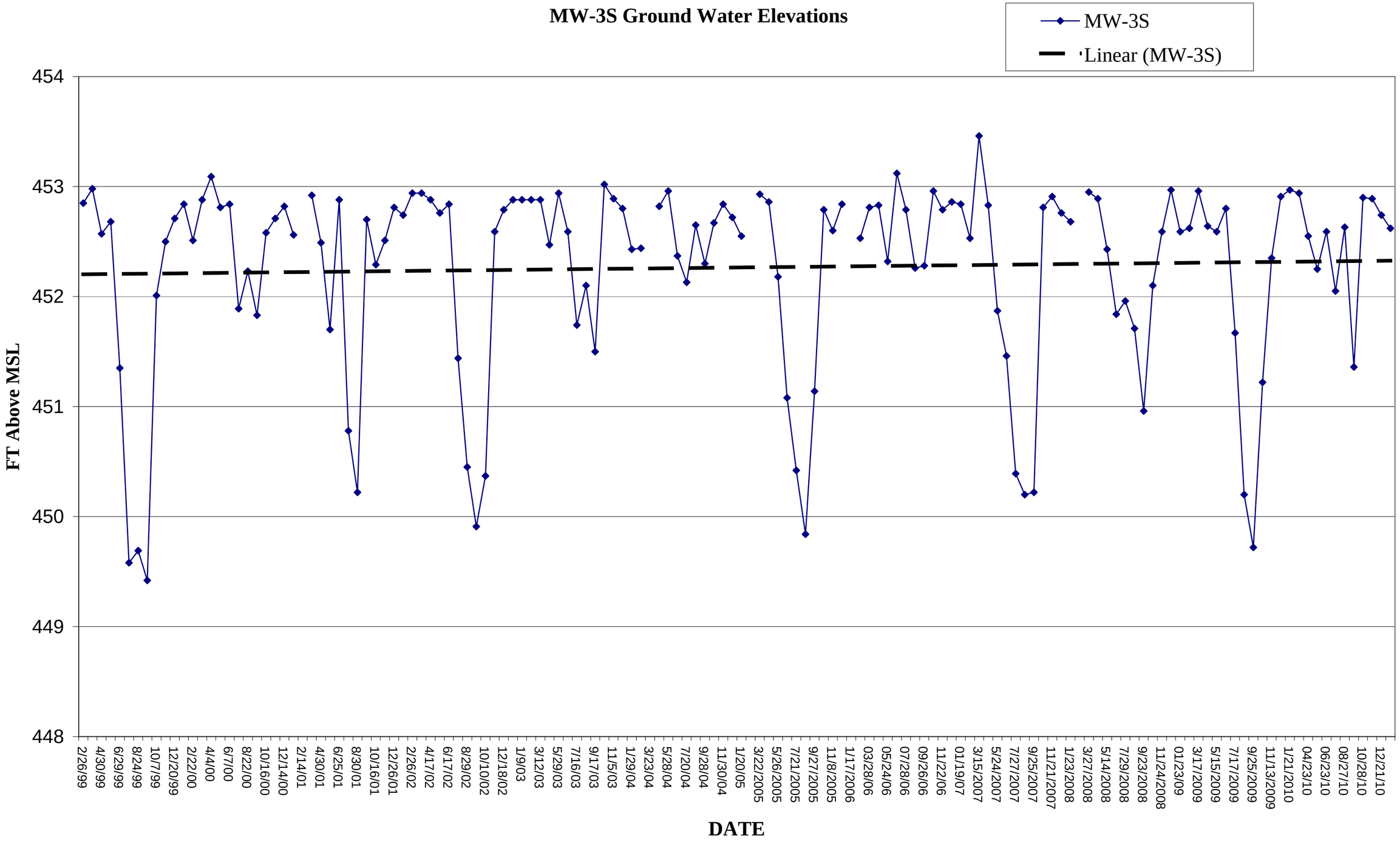
446.50
445.50
444.50
443.50
442.50
441.50
440.50
439.50
438.50

DATE

2/26/99
4/30/99
6/29/99
8/24/99
10/7/99
12/20/99
2/22/00
4/4/00
6/7/00
8/22/00
10/16/00
12/14/00
2/14/01
4/30/01
6/25/01
8/30/01
10/16/01
12/26/01
2/26/02
4/17/02
6/17/02
8/29/02
10/10/02
12/18/02
1/9/03
3/12/03
5/29/03
7/16/03
9/17/03
11/5/03
1/29/04
3/23/04
5/28/04
7/20/04
9/28/04
11/30/04
1/20/05
3/22/2005
5/26/2005
7/21/2005
9/27/2005
11/8/2005
1/17/2006
03/28/06
05/24/06
07/28/06
09/26/06
11/22/06
01/19/07
3/15/2007
5/24/2007
7/27/2007
9/25/2007
11/21/2007
1/23/2008
3/27/2008
5/14/2008
7/29/2008
9/23/2008
11/24/2008
01/23/09
3/17/2009
5/15/2009
7/17/2009
9/25/2009
11/13/2009
1/21/2010
04/23/10
06/23/10
08/27/10
10/28/10
12/21/10


MW-2S Ground Water Elevations
MW-2S
Linear (MW-2S)
Ft. Above MSL
454.5
453.5
452.5
451.5
450.5
449.5
448.5
DATE
2/26/99
4/30/99
6/29/99
8/24/99
10/7/99
12/20/99
2/22/00
4/4/00
6/7/00
8/22/00
10/16/00
12/14/00
2/14/01
4/30/01
6/25/01
8/30/01
10/16/01
12/26/01
2/26/02
4/17/02
6/17/02
8/29/02
10/10/02
12/18/02
1/9/03
3/12/03
5/29/03
7/16/03
9/17/03
11/5/03
1/29/04
3/23/04
5/28/04
7/20/04
9/28/04
11/30/04
1/20/05
3/22/2005
5/26/2005
7/21/2005
9/27/2005
11/8/2005
1/17/2006
03/28/06
05/24/06
07/28/06
09/26/06
11/22/06
01/19/07
3/15/2007
5/24/2007
7/27/2007
9/25/2007
11/21/2007
1/23/2008
3/27/2008
5/14/2008
7/29/2008
9/23/2008
11/24/2008
01/23/09
3/17/2009
5/15/2009
7/17/2009
9/25/2009
11/13/2009
1/21/2010
04/23/10
06/23/10
08/27/10
10/28/10
12/21/10

MW-3S Ground Water Elevations



MW-4S Ground Water Elevations

MW-4S
Linear (MW-4S)

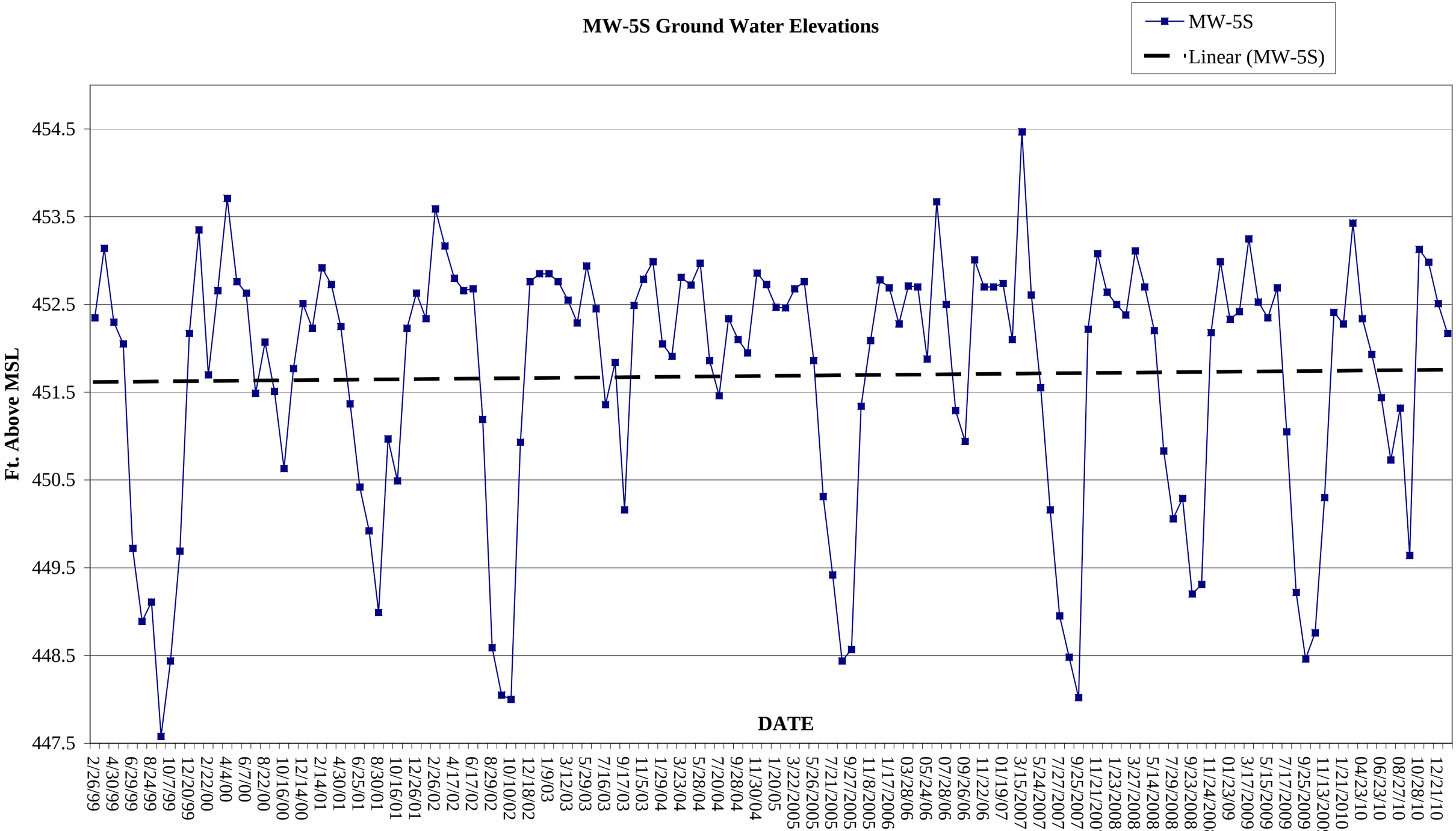
Ft. Above MSL

453.5
452.5
451.5
450.5
449.5
448.5
447.5

DATE

2/26/99
4/30/99
6/29/99
8/24/99
10/7/99
12/20/99
2/22/00
4/4/00
6/7/00
8/22/00
10/16/00
12/14/00
2/14/01
4/30/01
6/25/01
8/30/01
10/16/01
12/26/01
2/26/02
4/17/02
6/17/02
8/29/02
10/10/02
12/18/02
1/9/03
3/12/03
5/29/03
7/16/03
9/17/03
11/5/03
1/29/04
3/23/04
5/28/04
7/20/04
9/28/04
11/30/04
1/20/05
3/22/2005
5/26/2005
7/21/2005
9/27/2005
11/8/2005
1/17/2006
03/28/06
05/24/06
07/28/06
09/26/06
11/22/06
01/19/07
3/15/2007
5/24/2007
7/27/2007
9/25/2007
11/21/2007
1/23/2008
3/27/2008
5/14/2008
7/29/2008
9/23/2008
11/24/2008
01/23/09
3/17/2009
5/15/2009
7/17/2009
9/25/2009
11/13/2009
1/21/2010
04/23/10
06/23/10
08/27/10
10/28/10
12/21/10

MW-5S Ground Water Elevations



MW-7S Ground Water Elevations

MW-7S
Linear (MW-7S)

Ft. Above MSL

446.5
445.5
444.5
443.5
442.5
441.5
440.5
439.5
438.5

DATE

2/26/99
4/30/99
6/29/99
8/24/99
10/7/99
12/20/99
2/22/00
4/4/00
6/7/00
8/22/00
10/16/00
12/14/00
2/14/01
4/30/01
6/25/01
8/30/01
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3/22/2005
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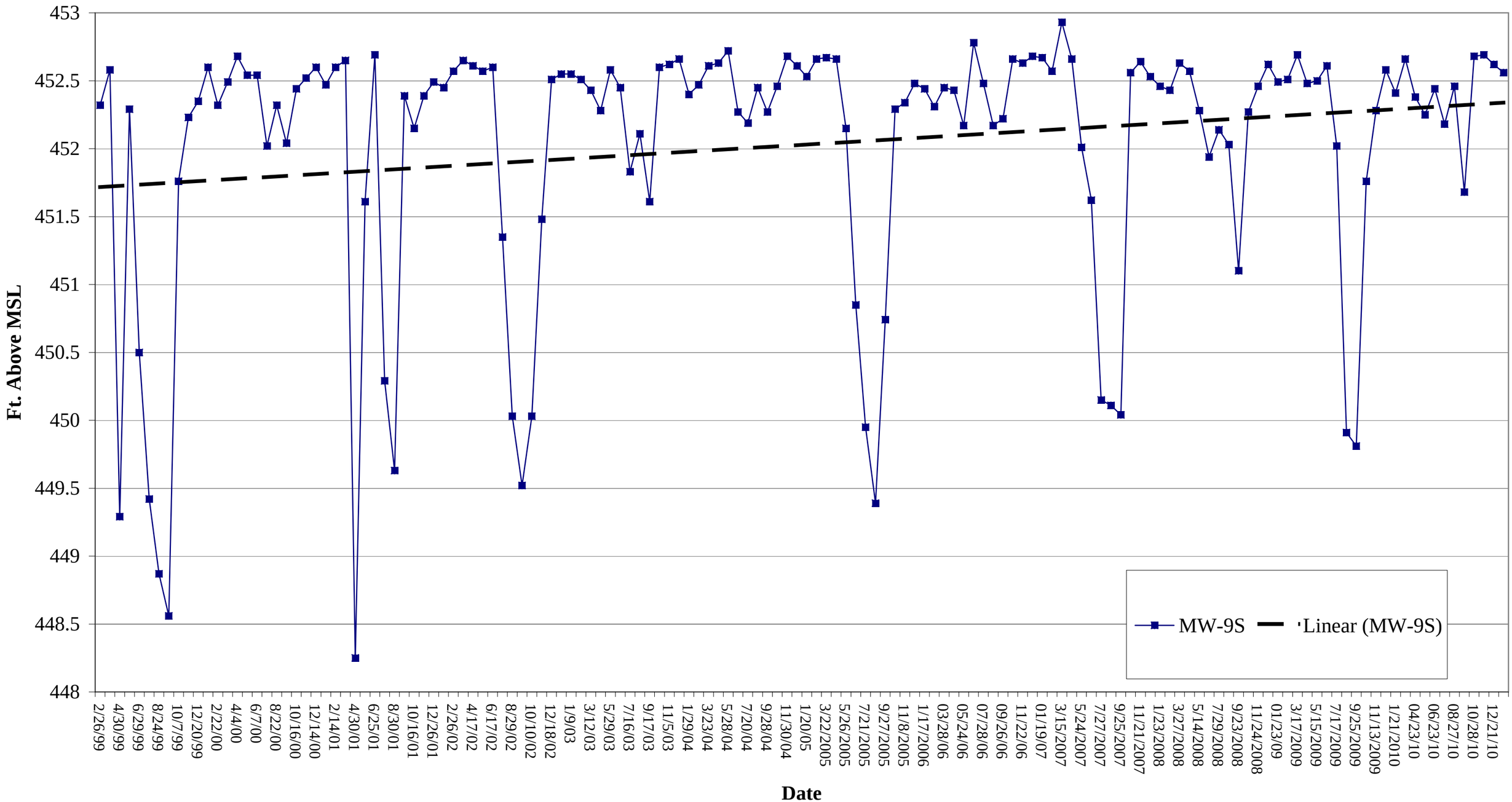
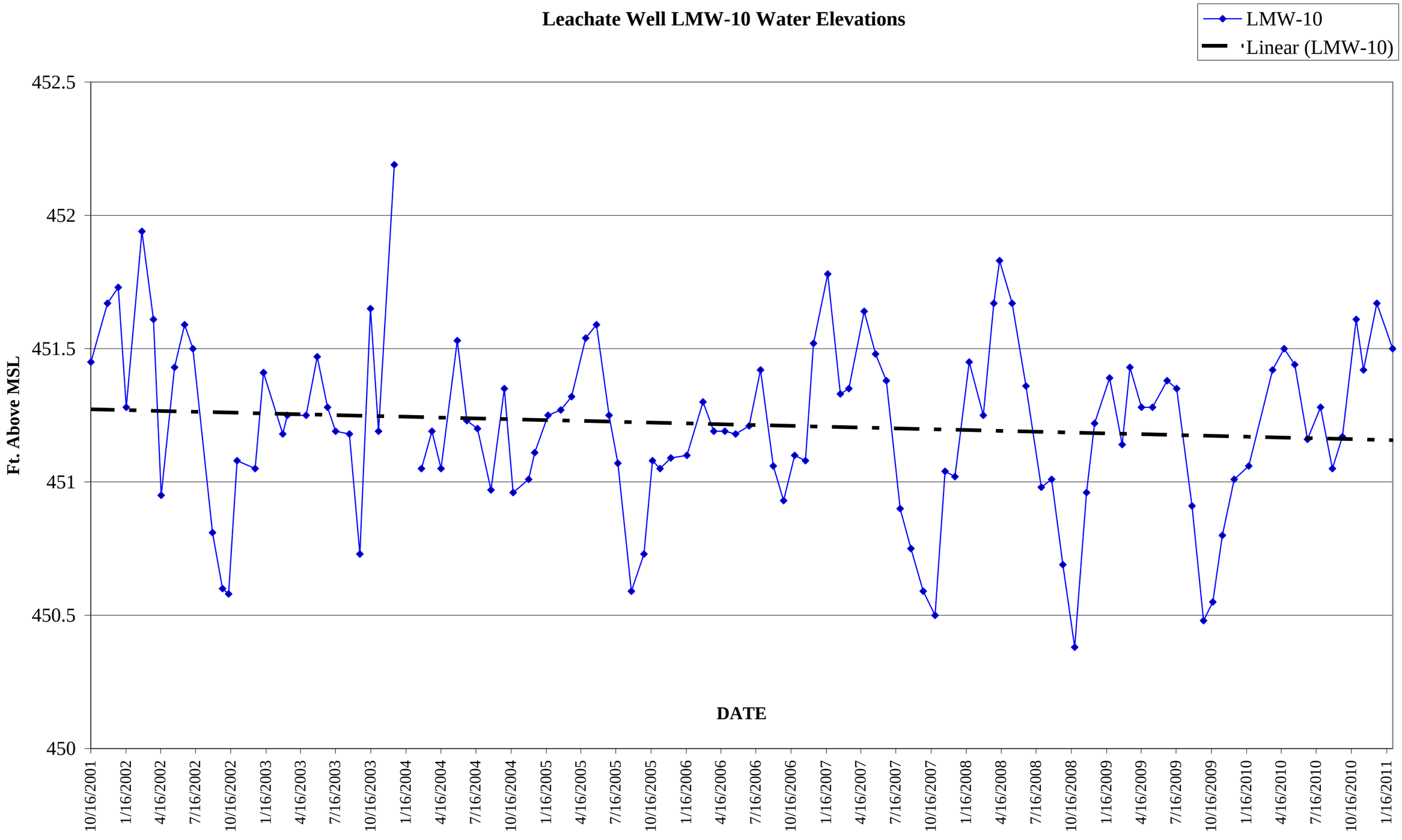
7/21/2005
9/27/2005
11/8/2005
1/17/2006
03/28/06
05/24/06
07/28/06
09/26/06
11/22/06
01/19/07
3/15/2007
5/24/2007
7/27/2007
9/25/2007
11/21/2007
1/23/2008
3/27/2008
5/14/2008
7/29/2008
9/23/2008
11/24/2008
01/23/09
3/17/2009
5/15/2009
7/17/2009
9/25/2009
11/13/2009
1/21/2010
04/23/10
06/23/10
08/27/10
10/28/10
12/21/10

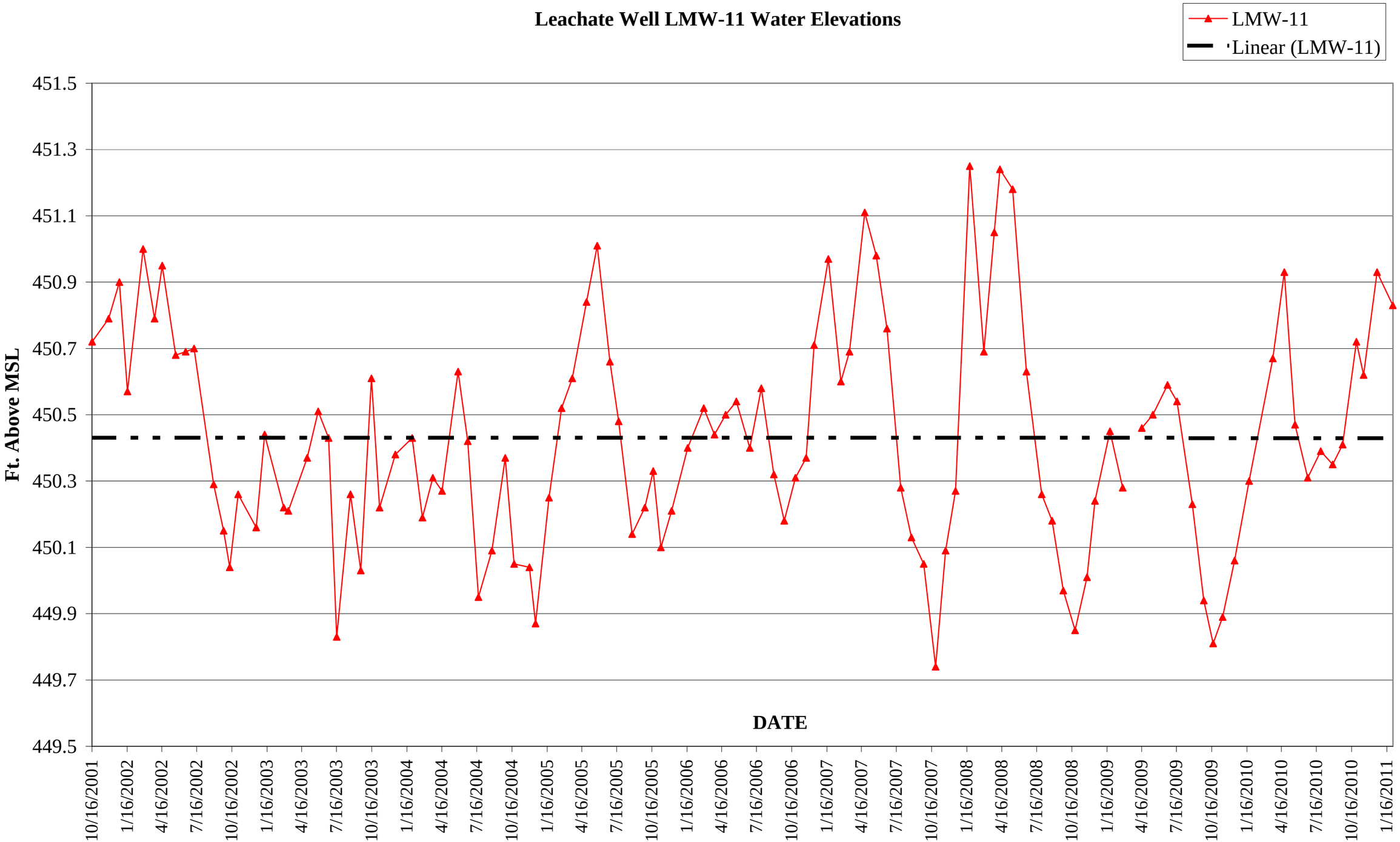
MW-9S Ground Water Elevations



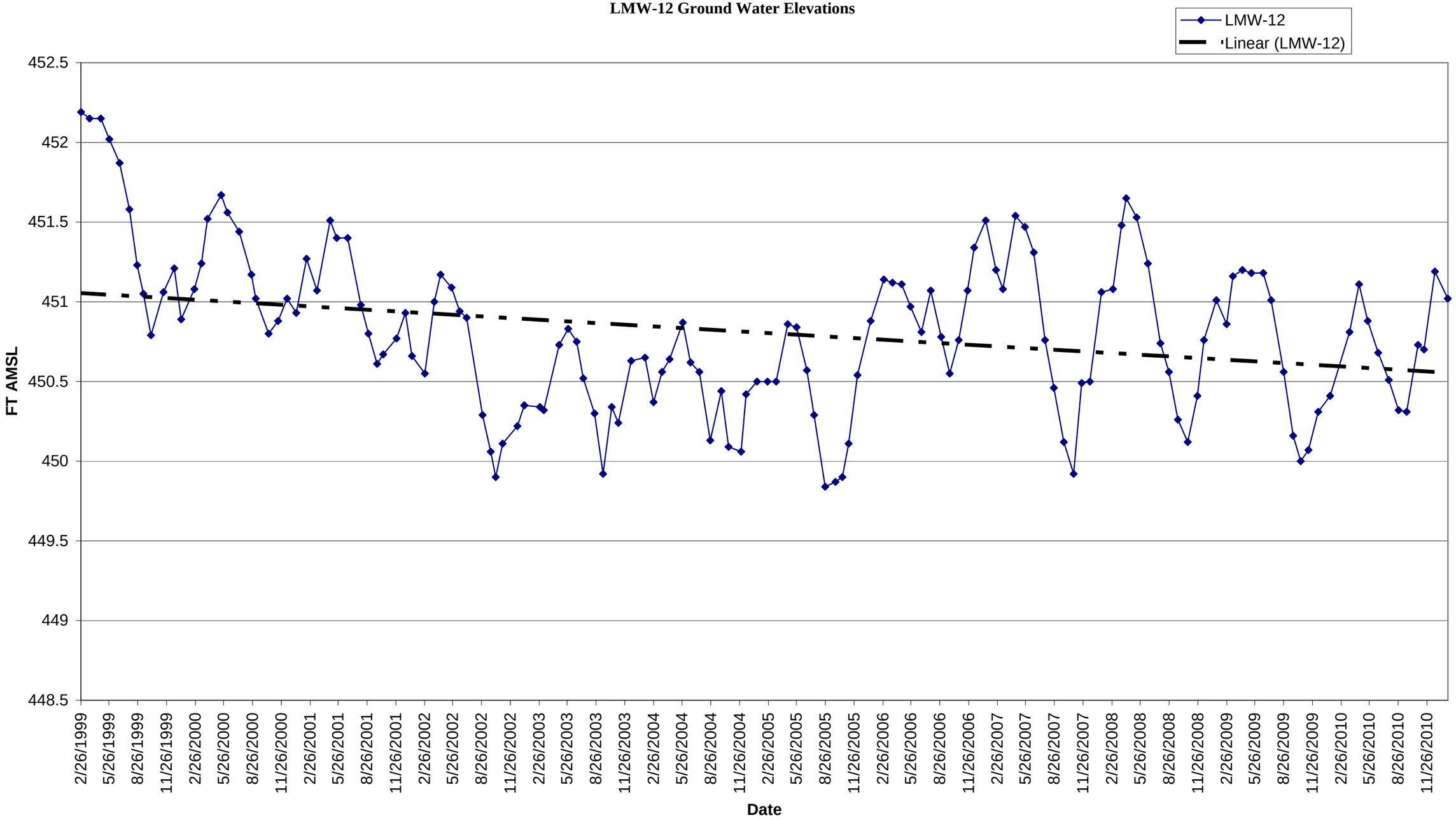
Leachate Well LMW-10 Water Elevations



Leachate Well LMW-11 Water Elevations



LMW-12 Ground Water Elevations



APPENDIX E

MONTHLY INSPECTION FORMS

TANNERY ROAD LANDFILL, ROME, NY
INSPECTION CHECKLIST

Date & Time: 3/24/10

Inspector: EDF

Weather: Windy 32°F cloudy

GENERAL INSPECTION - To Be Completed Monthly

General Site Condition:

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

Pump Station at Tannery Road: Condition: OK

Pump #1 Hours: 81433 Pump #2 Hours: 70403

Panel/Wells on Landfill

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

Totalizers (in meter pit)

RW-1	4538600	RW-3	3189000
RW-2	No meter	RW-4	2893000

Hour Meters

RW-1	196865	RW-3	740800
RW-2	498789	RW-4	284015

Landfill Cover Inspection

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

Western seep condition: minor

North seep condition:

Gas vents - general condition (OK)

- Unusual odors, list vents/describe. None

Flares ignited OK None ignited

Perimeter fence (OK)

Erosion/animal burrows NO If (YES) describe:

Two Leachate seeps/outbreak: East side of LF at perimeter of LF near access gate LMW-12

Erosion East side of LF in toe-on-berm at two locations near LMW-12

Leachate seep south side LF in erosion area near wetland pond. Erosion area should be repaired

Erosion southside access road at 1st culvert inside LF gate →

TANNERY ROAD LANDFILL, ROME, NY
INSPECTION CHECKLIST

Date & Time: 3/24/10 Inspector: EoF

Monitoring Well Water Level Data

WELL No	Measure Pt Elev.	Depth to Water (ft)	Groundwater Elevation (ft)	Well Condition
MW - 1S	449.59	4.42		
MW - 2S	459.44	6.12		
MW - 3S	456.4	3.46		
MW - 4S	456.19	3.76		
MW - 5S	457.15	3.72		
MW - 7S	452.25	8.10		
MW - 9S	456.38	3.72		
MW - 10	486.3	34.88		
MW - 11	502.4	51.73		
MW - 12	483.11	32.30		
PZ - 1	454.37	7.10		

NOTES:

70 8.42
1D 5.10
5D 3.03
2D 6.36

TANNERY ROAD LANDFILL, ROME, NY
INSPECTION CHECKLIST

Date & Time: 4/23/2010 Inspector: EGF

Weather: Sunny 40°F

GENERAL INSPECTION - To Be Completed Monthly

		Notes Problems
General Site Condition:		
Gates - condition and locks for inner & outer gates:	OK	
Access Road - surface/paving/snow	OK	
Overall appearance (trash/litter)	OK	
Pump Station at Tannery Road:	Condition: OK	
Pump #1 Hours: 081882	Pump #2 Hours: 070753	
Panel/Wells on Landfill		
Manholes along road - general condition, erosion, overflows	OK	
Pump Well No's 1 2 3 & 4 Well head condition/integrity	OK	non-functional
Meter Pit - open lid, check heater, leaks, etc.	OK	
Panel note conditions and any alarms:	OK	

Totallizers (in meter pit)

RW-1 4538600 RW-3 3257900

RW-2 0000100 RW-4 389300

Hour Meters

RW-1 196865 RW-3 746543

RW-2 498794 RW-4 284015

Landfill Cover Inspection			
Leachate seeps	Any new seeps NO	If YES, describe:	
	Western seep condition:	No visual manifestation	
	North seep condition:	Present in drainage channel	
Gas vents - general condition		OK	
- Unusual odors, list vents/describe.		None	
Flares ignited	None ignited 2,4,5 panel appear to be operational. 1,3,6,7 non-operational No spark on any flares	OK	
Perimeter fence		OK	
Erosion/animal burrows	NO	If YES, describe:	

Eastern leachate outbreak present in March, Not present in April

Burrow in channel of southern erosion area near wetland

Break in toe-on-berm east side near Row-12 - temporary repair with silt fence

Breaking toe-on-berm near RW-3 - temporary repair with silt fence

Some erosion along toe-on-berm south of Row-12

TANNERY ROAD LANDFILL, ROME, NY
INSPECTION CHECKLIST

Date & Time: 4/23/2010 Inspector: _____

Monitoring Well Water Level Data

WELL No	Measure Pt Elev.	Depth to Water (ft)	Groundwater Elevation (ft)	Well Condition
MW - 1S	449.59	5.30		
MW - 2S	459.44	7.48		
MW - 3S	456.4	3.85		
MW - 4S	456.19	2.99		
MW - 5S	457.15	4.81		
MW - 7S	452.25	8.29		
MW - 9S	456.38	4.0		
MW - 10	486.3	34.80		
MW - 11	502.4	51.47		
MW - 12	483.11	32.0		
PZ - 1	454.37	6.67		

NOTES:

MW-7D 8.50
MW-5D 4.90
MW-2D 7.50
MW-1D 5.74

TANNERY ROAD LANDFILL, ROME, NY
INSPECTION CHECKLIST

Date & Time: 5/21/2010 Inspector: EGF Sunny 60°F
Weather:

GENERAL INSPECTION - To Be Completed Monthly

		Notes Problems
General Site Condition:		
Gates - condition and locks for inner & outer gates:	OK	OK
Access Road - surface/paving/snow	OK	OK
Overall appearance (trash/litter)	OK	OK
Pump Station at Tannery Road: Condition:	OK	OK

Pump #1 Hours: 082533 Pump #2 Hours: 071258

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	2 & 3 OK
Meter Pit - open lid, check heater, leaks, etc.	OK	OK
Panel note conditions and any alarms:	OK	—

Totallizers (in meter pit)

RW-1 4538600 RW-3 3284200
RW-2 6150900 RW-4 3893000

Hour Meters

RW-1 196865 RW-3 74868 7
RW-2 505507 RW-4 284015

Landfill Cover Inspection

Leachate seeps Any new seeps NO If YES, describe:
Western seep condition: Not Apparent
North seep condition: Some Seepage
Gas vents - general condition OK
- Unusual odors, list vents/describe.
Flares ignited OK
Perimeter fence (OK)
Erosion/animal burrows NO If (YES), describe:

1. Borrow in erosion channel south side landfill above wetland
2. Temporary silt fence ok ~~west~~ east side of landfill near LMW-12
3. Temporary silt fence ok south side LF near RW-3
4. Erosion First culvert inside LF gate

TANNERY ROAD LANDFILL, ROME, NY
INSPECTION CHECKLIST

Date & Time: 5/21/2010 Inspector: Geff

Monitoring Well Water Level Data

WELL No	Measure Pt Elev.	Depth to Water (ft)	Groundwater Elevation (ft)	Well Condition
MW - 1S	449.59	5.72		OK
MW - 2S	459.44	8.09		
MW - 3S	456.4	4.15		
MW - 4S	456.19	4.22		
MW - 5S	457.15	5.22		
MW - 7S	452.25	8.74		
MW - 9S	456.38	4.13		
MW - 10	486.3	34.86		
MW - 11	502.4	51.93		
MW - 12	483.11	32.23		
PZ - 1	454.37	7.42		

NOTES:

7D 9.03
5D 5.30
2D 8.04
1D 6.24

TANNERY ROAD LANDFILL, ROME, NY
INSPECTION CHECKLIST

Date & Time: 6/23/2010 Inspector: Brent Zimmer
Weather: Overcast

GENERAL INSPECTION - To Be Completed Monthly

		Notes Problems
General Site Condition:		
Gates - condition and locks for inner & outer gates:	OK	
Access Road - surface/paving/snow	OK	
Overall appearance (trash/litter)	OK	None
Pump Station at Tannery Road:	Condition: OK	
Pump #1 Hours: 83326	Pump #2 Hours: 71867	

Panel/Wells on Landfill

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

Totallizers (in meter pit)

RW-1	4538600	RW-3	3360800
RW-2	304900	RW-4	3893006

Hour Meters

RW-1	196866	RW-3	754283
RW-2	513413	RW-4	284015

Landfill Cover Inspection

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

Twenty feet EAST of the North Down chute a hole has developed in the Tack on Berm. This needs to be corrected ASAP to prevent erosion of the Cap/Tackon Berm.

A Depression along the tackon Berm just left of the Access Rd should be filled because it's causing a drainage problem.

The new down chute is Armored and complete.

TANNERY ROAD LANDFILL, ROME, NY
INSPECTION CHECKLIST

Date & Time: 6/23/2010 Inspector: Brent Zimmer

Monitoring Well Water Level Data

WELL No	Measure Pt Elev.	Depth to Water (ft)	Groundwater Elevation (ft)	Well Condition
MW - 1S	449.59	5.92	443.67	Good
MW - 2S	459.44	8.45	450.99	Good
MW - 3S	456.4	3.81	452.59	Good
MW - 4S	456.19	4.16	452.04	Good
MW - 5S	457.15	5.71	451.44	Good
MW - 7S	452.25	9.68	442.57	Good
MW - 7D	451.79	9.74	442.05	Good
MW - 9S	456.38	3.94	452.44	Good
MW - 10	486.3	35.14	451.16	Good
MW - 11	502.4	52.09	450.31	Good
MW - 12	483.11	32.43	450.68	Obstruction
PZ - 1*	454.37	7.74	446.63	Good

NOTES: MW-2S 8.45

TANNERY ROAD LANDFILL, ROME, NY
INSPECTION CHECKLIST

Date & Time: 7/27/10 Inspector: EGF

Weather: Sunny 80°F

GENERAL INSPECTION - To Be Completed Monthly

		Notes Problems
General Site Condition:		
Gates - condition and locks for inner & outer gates:	OK	
Access Road - surface/paving/snow	OK	
Overall appearance (trash/litter)	OK	
Pump Station at Tannery Road:	Condition: OK	
Pump #1 Hours: 083944	Pump #2 Hours: 071342	
Panel/Wells on Landfill		
Manholes along road - general condition, erosion, overflows	OK	
Pump Well No's 1, 2, 3 & 4 - Well head condition/integrity	OK	
Meter Pit - open lid, check heater, leaks, etc.	OK	
Panel note conditions and any alarms:	OK	

Totallizers (in meter pit)

RW-1 458600 RW-3 238200

RW-2 047600 RW-4 249000

Hour Meters

RW-1 196865 RW-3 757763

RW-2 521602 RW-4 284015

Landfill Cover Inspection		
Leachate seeps Any new seeps	NO	If YES, describe:
Western seep condition:		Not apparent
North seep condition:		not apparent
Gas vents - general condition	OK	
- Unusual odors, list vents/describe.		
Flares ignited not ignited	OK	
Perimeter fence	OK	
Erosion/animal burrows NO		If YES, describe:

1. Erosion just inside LF safe south side repaired with riprap
2. Erosion east side LF repaired new downchute
3. Woodchuck holes present in top-of-berm south side LF west of RW-3 Area isolated by silt fence
4. Hole 20 ft east north downchute needs repair

TANNERY ROAD LANDFILL, ROME, NY
INSPECTION CHECKLIST

Date & Time: 7/27/10 Inspector: EGF

Monitoring Well Water Level Data

WELL No	Measure Pt Elev.	Depth to Water (ft)	Groundwater Elevation (ft)	Well Condition
MW - 1S	449.59	6.69		
MW - 2S	459.44	8.77		
MW - 3S	456.4	4.35		
MW - 4S	456.19	4.79		
MW - 5S	457.15	6.42		
MW - 7S	452.25	10.15		
MW - 9S	456.38	4.20		
MW - 10	486.3	25.02		
MW - 11	502.4	52.01		
MW - 12	483.11	22.60		
PZ - 1	454.37	8.48		

NOTES:

7D 10.17
1D 7.14
2D 8.59
5D 6.57

TANNERY ROAD LANDFILL, ROME, NY
INSPECTION CHECKLIST

Date & Time: 8/27/2010 Inspector: GGF

Weather: Sunny 60°F

GENERAL INSPECTION - To Be Completed Monthly

		Notes Problems
General Site Condition:		
Gates - condition and locks for inner & outer gates:	OK	OK
Access Road - surface/paving/snow	OK	OK
Overall appearance (trash/litter)	OK	OK
Pump Station at Tannery Road: Condition:	OK	
Pump #1 Hours: 084168	Pump #2 Hours: 072516	
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	—

Totallizers (in meter pit)

RW-1	4538600	RW-3	3406600
RW-2	0418200	RW-4	3893000

Hour Meters

RW-1	196865	RW-3	758038
RW-2	529019	RW-4	284015

Landfill Cover Inspection			
Leachate seeps Any new seeps	NO	If YES, describe:	NO
Western seep condition:			Not apparent
North seep condition:			not apparent
Gas vents - general condition		OK	OK
- Unusual odors, list vents/describe.			None
Flares ignited NO		OK	
Perimeter fence OK		OK	
Erosion/animal burrows	NO	If YES, describe:	

1. Erosion hole twenty feet east of north downchute needs repair

TANNERY ROAD LANDFILL, ROME, NY
INSPECTION CHECKLIST

Date & Time: 8/27/10 Inspector: GGP

Monitoring Well Water Level Data

WELL No	Measure Pt Elev.	Depth to Water (ft)	Groundwater Elevation (ft)	Well Condition
MW - 1S	449.59	6.26		
MW - 2S	459.44	7.81		
MW - 3S	456.4	3.77		
MW - 4S	456.19	4.51		
MW - 5S	457.15	5.83		
MW - 7S	452.25	9.98		
MW - 9S	456.38	3.92		
MW - 10	486.3	35.25		
MW - 11	502.4	52.05		
MW - 12	483.11	32.79		
PZ - 1	454.37	7.49		

NOTES:

7D 10.07
1D 6.74
2D 7.60
5D 5.99

TANNERY ROAD LANDFILL, ROME, NY
INSPECTION CHECKLIST

Date & Time: 9/22/10 7AM Inspector: Brent Zimmer
Weather: Overcast

GENERAL INSPECTION - To Be Completed Monthly

		Notes Problems
General Site Condition:		
Gates - condition and locks for inner & outer gates:	(OK)	
Access Road - surface/paving/snow	(OK)	
Overall appearance (trash/litter)	(OK)	None
Pump Station at Tannery Road:	Condition: OK	
Pump #1 Hours: 84409	Pump #2 Hours: 72701	
Panel/Wells on Landfill		
Manholes along road - general condition, erosion, overflows	(OK)	
Pump Well No's 1, 2, 3 & 4 - Well head condition/integrity	(OK)	
Meter Pit - open lid, check heater, leaks, etc.	(OK)	
Panel note conditions and any alarms:	OK	None

Totallizers (in meter pit)

RW-1 4538600 RW-3 3434400
RW-2 418700 RW-4 3893000

Hour Meters

RW-1 196816.5 RW-3 758371
RW-2 535247 RW-4 384015

Landfill Cover Inspection

Leachate seeps Any new seeps (NO) If YES, describe:
Western seep condition: OK
North seep condition: OK
Gas vents - general condition OK No spark on All
- Unusual odors, list vents/describe. No
Flares ignited OK No
Perimeter fence (OK)
Erosion/animal burrows NO If YES, describe: Wood chuck holes in face on Berm, Wood chuck holes along perimeter fence

TANNERY ROAD LANDFILL, ROME, NY
INSPECTION CHECKLIST

Date & Time: 9/22/10 Inspector: Brent Zimmer

Monitoring Well Water Level Data

WELL No	Measure Pt Elev.	Depth to Water (ft)	Groundwater Elevation (ft)	Well Condition
MW - 1S	449.59	7.51	442.08	Good
MW - 2S	459.44	9.18	450.26	Good
MW - 3S	456.4	5.04	451.36	Good
MW - 4S	456.19	5.85	450.34	Good
MW - 5S	457.15	7.51	449.64	Good
MW - 7S	452.25	10.97	441.28	Good
MW - 7D	451.79	9.94	441.85	Good
MW - 9S	456.38	4.70	451.68	Good
MW - 10	486.3	35.13	451.17	Good
MW - 11	502.4	51.99	450.41	Good
MW - 12	483.11	32.80	450.31	Obstruction
PZ - 1*	454.37	9.17	445.20	Good

NOTES:

TANNERY ROAD LANDFILL, ROME, NY
INSPECTION CHECKLIST

Date: 9/22/10 Inspector: Brent Zimmer
Weather: Overcast

ANNUAL GAS VENT INSPECTION (To be completed each Fall)

Gas Vent Number	H_2S (ppm)	Detectable Odors Yes	Detectable Odors No	General Vent Condition Notes/Comments
1	0		X	LEL 100
2	0	X		LEL 100
3	0	X		LEL 100 Can see gas coming out of vent
4	0		X	LEL 100
5	0	X		LEL 100 See gas coming out
6	0	X		LEL 100 See gas coming out
7	0		X	LEL 7% Grass in Flare No spark
8	0		X	LEL 100 No spark
9	0		X	LEL 100
10	0		X	LEL 100 No spark but charger is working
11	0		X	LEL 100 No Spark
12	0		X	LEL 100 No Spark
13	0		X	LEL 100 No Spark
14	0		X	LEL 78
15	0		X	LEL 100 No spark
16	0		X	LEL 100
17	0		X	LEL 18
18	0		X	LEL 100
19	0		X	LEL 35
20	0	X		LEL 100
21	0		X	LEL 100
22	0		X	LEL 100
23	0		X	LEL 100
24	0	X		LEL 100 Slight ODOR
25	0		X	LEL 100 Slight ODOR

TANNERY ROAD LANDFILL, ROME, NY
INSPECTION CHECKLIST

Date: 9/22/10 Inspector: Bert Zimmer
Weather: Overcast

ANNUAL GAS VENT INSPECTION (To be completed each Fall)

Gas Vent Number	H_2S (ppm)	Detectable Odors Yes	Detectable Odors No	General Vent Condition Notes/Comments
26			→	Does not exist
27	0		+	LEL 54
28	0		+	LEL 36
29	0		+	LEL 100
30	0		+	LEL 100
31	0		+	LEL 100
32	0		+	LEL 100
33	0		+	LEL 53
34	0		+	LEL 100
35	0		+	LEL 100
36	0		+	LEL 45
37	0		+	LEL 49
38	0		+	LEL 100
39	0	+		LEL 100 Can see gas
40	0		+	LEL 31
41	0	+		LEL 100 Gas can be seen
42	0		+	LEL 100
43	0		+	LEL 100
44	0		+	LEL 3
45	0		+	LEL 100
46	0		+	LEL 6

TANNERY ROAD LANDFILL, ROME, NY
INSPECTION CHECKLIST

Date & Time: 10/28/10 Inspector: EGF

Weather: Sunny 40°F

GENERAL INSPECTION - To Be Completed Monthly

		Notes Problems
General Site Condition:		
Gates - condition and locks for inner & outer gates:	OK	
Access Road - surface/paving/snow	OK	
Overall appearance (trash/litter)	OK	
Pump Station at Tannery Road:	Condition: OK	
Pump #1 Hours: 084881	Pump #2 Hours: 073052	
Panel/Wells on Landfill		
Manholes along road - general condition, erosion, overflows	OK	
Pump Well No's 1, 2, 3 & 4 - Well head condition/integrity	OK	
Meter Pit - open lid, check heater, leaks, etc.	OK	
Panel note conditions and any alarms:	OK None	

Totallizers (in meter pit)

RW-1 4538600 RW-3 3476900

RW-2 0418700 RW-4 3893000

Hour Meters

RW-1 196265 RW-3 758885

RW-2 543890 RW-4 284015

Landfill Cover Inspection

Leachate seeps Any new seeps NO If YES, describe:

Western seep condition:

North seep condition:

Gas vents - general condition OK

- Unusual odors, list vents/describe.

Flares ignited NO spark OK

Perimeter fence ok OK

Erosion/animal burrows NO If YES, describe:

1. Wood chuck hole Tac-on Berm 20 ft East north down chute

2. Break in Tac-on-berm south side Landfill near RW-3 protected by silt fence

3. Animal burrow in stabilized erosion channel south side of landfill above constructed wetland. Area is vegetated and currently stable.

TANNERY ROAD LANDFILL, ROME, NY
INSPECTION CHECKLIST

Date & Time: 10/28/10 Inspector: EGF

Monitoring Well Water Level Data

WELL No	Measure Pt Elev.	Depth to Water (ft)	Groundwater Elevation (ft)	Well Condition
MW - 1S	449.59	4.85		
MW - 2S	459.44	6.33		
MW - 3S	456.4	3.50		
MW - 4S	456.19	3.92		
MW - 5S	457.15	4.02		
MW - 7S	452.25	8.73		
MW - 9S	456.38	3.70		
MW - 10	486.3	34.69		
MW - 11	502.4	51.68		
MW - 12	483.11	32.38		
PZ - 1	454.37	5.44		

NOTES:

7D 9.15
ND 5.46
2D 6.48
5D 4.07

TANNERY ROAD LANDFILL, ROME, NY
INSPECTION CHECKLIST

Date & Time: 11/19/2010 Inspector: Brent Zimmer
Weather: OVERCAST Flurries

GENERAL INSPECTION - To Be Completed Monthly

		Notes Problems
General Site Condition:		
Gates - condition and locks for inner & outer gates:	OK	
Access Road - surface/paving/snow	OK	
Overall appearance (trash/litter)	OK	
Pump Station at Tannery Road:	Condition: OK	
Pump #1 Hours: 85135	Pump #2 Hours: 73843	
Panel/Wells on Landfill		
Manholes along road - general condition, erosion, overflows	OK	City Jetting lines today
Pump Well No's 1, 2, 3 & 4 - Well head condition/integrity	OK	
Meter Pit - open lid, check heater, leaks, etc.	OK	
Panel note conditions and any alarms:	OK None	

Totallizers (in meter pit)

RW-1	4538600	RW-3	3493800
RW-2	418709	RW-4	3893000

Hour Meters

RW-1	196865	RW-3	759093
RW-2	549187	RW-4	284015

Landfill Cover Inspection

Leachate seeps Any new seeps NO If YES, describe:
Western seep condition: ok
North seep condition: ok
East seep
Gas vents - general condition ok OK
- Unusual odors, list vents/describe. No
Flares ignited OK None
Perimeter fence OK
Erosion/animal burrows NO If YES, describe: Burrow in north corner of #1. Landfill under the fence.

2. Wood chuck hole in Toe on berm 20 ft east north downchute

TANNERY ROAD LANDFILL, ROME, NY
INSPECTION CHECKLIST

Date & Time: 11/19/2010 Inspector: Brent Zimmer

Monitoring Well Water Level Data

WELL No	Measure Pt Elev.	Depth to Water (ft)	Groundwater Elevation (ft)	Well Condition
MW - 1S	449.59	4.91	444.68	Good
MW - 2S	459.44	6.56	452.88	Good
MW - 3S	456.4	3.51	452.89	Good
MW - 4S	456.19	3.98	452.21	Good
MW - 5S	457.15	4.17	452.98	Good
MW - 7S	452.25	8.58	443.67	Good
MW - 7D	451.79	8.99	442.8	Good
MW - 9S	456.38	3.69	452.69	Good
MW - 10	486.3	34.88	451.42	Good
MW - 11	502.4	51.78	450.62	Good
MW - 12	483.11	32.41	450.70	Obstruction
PZ - 1*	454.37	5.75	448.62	Good

NOTES:

6.67 3D

TANNERY ROAD LANDFILL, ROME, NY
INSPECTION CHECKLIST

Date & Time: 12/21/10 Inspector: Brent Zimmer
Weather: Overcast Windy

GENERAL INSPECTION - To Be Completed Monthly

		Notes Problems
General Site Condition:		
Gates - condition and locks for inner & outer gates:	OK	
Access Road - surface/paving/snow	OK	
Overall appearance (trash/litter)	OK	
Pump Station at Tannery Road:	Condition: OK	
Pump #1 Hours: 85593	Pump #2 Hours: 73591	

Panel/Wells on Landfill

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

Totallizers (in meter pit)

RW-1 4538600 RW-3 3511400
RW-2 418790 RW-4 3893000

Hour Meters

RW-1 196865 RW-3 75932
RW-2 556700 RW-4 29401.5

Landfill Cover Inspection

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

Track on Berm between MW-3 and MW-2 has eroded out. A large portion of soil directly below the wash out has eroded away. Currently the erosion is frozen and covered with snow. Repairs should be done ASAP or prior to a thaw to prevent further erosion.

TANNERY ROAD LANDFILL, ROME, NY
INSPECTION CHECKLIST

Date & Time: 12/21/10 Inspector: Brent Zimmer

Monitoring Well Water Level Data

WELL No	Measure Pt Elev.	Depth to Water (ft)	Groundwater Elevation (ft)	Well Condition
MW - 1S	449.59	5.05	444.54	Good
MW - 2S	459.44	6.95	452.49	Good
MW - 3S	456.4	3.66	452.74	Good
MW - 4S	456.19	3.93	452.26	Good
MW - 5S	457.15	4.64	452.51	Good
MW - 7S	452.25	8.00	444.25	Good
MW - 7D	451.79	8.13	443.66	Good
MW - 9S	456.38	3.76	452.62	Good
MW - 10	486.3	34.63	451.67	Good
MW - 11	502.4	51.47	450.93	Good
MW - 12	483.11	31.92	451.19	Obstruction
PZ - 1*	454.37	6.15	448.22	Good

NOTES: MW-2D = 7.01

TANNERY ROAD LANDFILL, ROME, NY
INSPECTION CHECKLIST

Date & Time: 1/31/11 Inspector: EF

Weather: Sunny 10°F

GENERAL INSPECTION - To Be Completed Monthly

		Notes Problems
General Site Condition:		
Gates - condition and locks for inner & outer gates:	OK	
Access Road - surface/paving/snow	OK	
Overall appearance (trash/litter)	OK	
Pump Station at Tannery Road: Condition:	OK	

Pump #1 Hours: 086010 Pump #2 Hours: 73910

Panel/Wells on Landfill

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

Totallizers (in meter pit)

RW-1 4538600 RW-3 3552800

RW-2 0418700 RW-4 3893000

Hour Meters

RW-1 196865 RW-3 759836

RW-2 566572 RW-4 284015

Landfill Cover Inspection

Leachate seeps Any new seeps NO If YES, describe:

Western seep condition: Not apparent

North seep condition: not apparent

Gas vents - general condition OK

- Unusual odors, list vents/describe.

Flares ignited None ignited OK

Perimeter fence OK OK

Erosion/animal burrows NO If YES, describe:

See December Report

Break in tar-on-berm north side landfill

TANNERY ROAD LANDFILL, ROME, NY
INSPECTION CHECKLIST

Date & Time: 11/3/11 Inspector: EGF

Monitoring Well Water Level Data

WELL No	Measure Pt Elev.	Depth to Water (ft)	Groundwater Elevation (ft)	Well Condition
MW - 1S	449.59	5.63		OK
MW - 2S	459.44	7.95		
MW - 3S	456.4	3.78		
MW - 4S	456.19	4.11		
MW - 5S	457.15	4.98		
MW - 7S	452.25	9.03		
MW - 9S	456.38	3.82		
MW - 10	486.3	34.80		
MW - 11	502.4	51.57		
MW - 12	483.11	32.09		
PZ - 1	454.37	7.32		

NOTES: 7D 9.17
1D 6.11
2D 7.84
5D 5.09