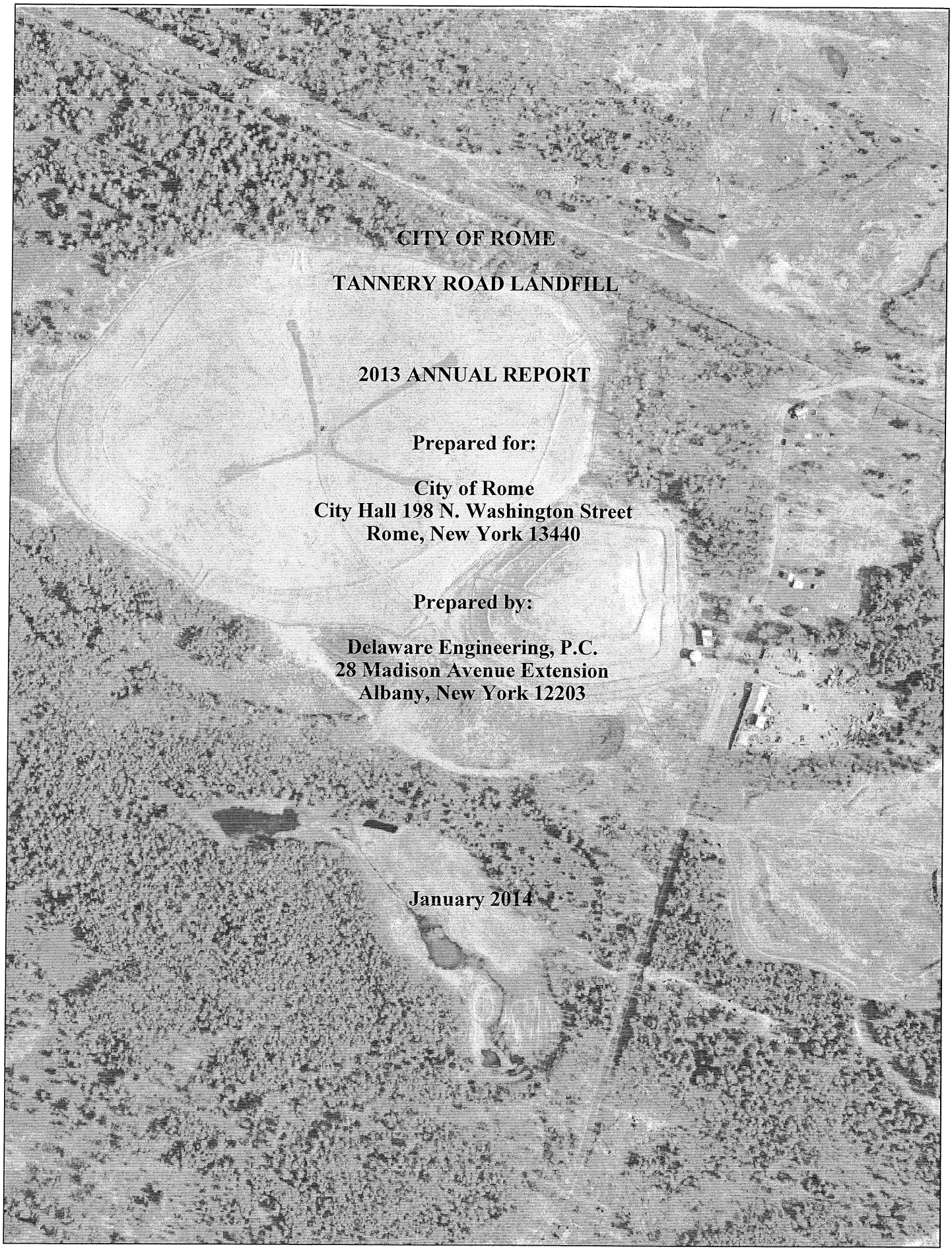

CITY OF ROME

TANNERY ROAD LANDFILL

2013 ANNUAL REPORT

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1.0 INTRODUCTION

This document presents the 2013 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 January 2013 through December 2013.

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

- Ground water and leachate quality analytical data.
- The amount of ground water/leachate collected from the recovery wells.
- Ground water contour maps for March, September, September and December 2013.
- Quarterly Inspection Data.

2.0 2013 AND HISTORICAL GROUND WATER AND LEACHTE ANALYTICAL DATA

Pursuant to the March 30, 2011 approval by the NYSDEC for a 15 month ground water monitoring schedule, ground water samples were collected in September 2013 from monitoring wells MW-1S, MW-2D, MW-3S, MW-4S, MW-5S, MW-7D and groundwater/leachate well LMW-10 and were analyzed for the Part 360 Baseline parameters. The next scheduled sampling event is December 2014.

Analytical results are summarized in Table 1 and tables summarizing the analytical data for each monitoring well from March 1999 to present are provided in Appendix A. Concentrations that exceeded applicable New York State ground water standards are presented in a bold font. Graphs of parameter concentration over time (trend graphs) for several leachate indicator parameters (alkalinity, BOD, COD, ammonia, chloride, iron, manganese, potassium, sodium, TDS and TOC) for each monitoring well are provided in Appendix B. Laboratory reporting sheets are provided in Appendix E.

Consistent with historical data, the September 2013 ground water iron concentrations in all downgradient ground water monitoring well samples and the upgradient MW-9S ground water sample were higher than the NYS ground water standard. The downgradient MW-2D, MW-3S and MW-7D and the MW-9S upgradient ground water manganese concentrations were higher than the NYS ground water standard. The MW-1S, MW-2D, MW-4S and MW-5S downgradient

iron concentrations are consistent with or less than the upgradient MW-9S concentration. Data indicate that the ground water iron and manganese concentrations detected above the respective ground water standards in some of the down gradient 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.

The September 2013 ground water thallium concentration in downgradient monitoring wells MW-3S, MW-4S and MW-7D was higher than the NYS ground water guidance value. Thallium has periodically been detected in ground water samples from these monitoring wells and the September 2013 results are consistent with historical data.

Consistent with historical data, the ground water pH from downgradient monitoring wells MW-1S, MW-2D, MW-3S, MW-4S and MW-5S and upgradient well MW-9S was less than the NYS ground water standard lower limit. 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.

The ground water field turbidity value in the ground water samples from all monitoring wells was above the NYS ground water standard. The turbidity is related to the movement of fine grain material into the well during the sampling procedure and is not a landfill related impact on ground water quality.

The MW-4S alkalinity and COD concentrations and the MW-5S COD concentration were the highest reported to date. The concentrations of the other landfill leachate parameters were consistent with historical data. The MW-4S and MW-5S BOD and TOC concentrations were consistent with historical data. Generally there is a relationship between COD, BOD and TOC concentrations. The MW-4S and MW-5S high COD concentrations without a corresponding increase in BOD or TOC concentrations indicate the reported COD concentrations may be an anomaly.

The trend graphs indicate that MW-3S ground water alkalinity, ammonia, BOD, COD, chloride, iron, manganese, potassium, sodium, TDS and TOC concentrations have exhibited a decreasing trend from the 1999 concentrations and appear to have stabilized at the current levels. MW-3 manganese concentrations exhibit an increasing trend from the low concentrations that occurred in 2004. Trend graphs indicate a decreasing trend in the MW-2D ammonia, chloride 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-1S, MW-4S and MW-5S ground water alkalinity, BOD, COD, ammonia, chloride, iron, manganese, potassium, sodium, TDS and TOC concentrations are generally stable.

3.0 2013 AND HISTORICAL GROUND WATER ELEVATION DATA

Ground water elevation data were measured quarterly 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 2013 ground water elevation data are provided in Table 1. Ground water contour maps for March, September, September and December 2013 are enclosed. Graphs depicting historical ground water elevations over time for each monitoring well are provided in Appendix C.

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 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 ground water elevation data for 2013 indicates that ground water elevations in monitoring wells MW-2S, MW-3S, MW-4S and MW-5S were higher than the LMW-10 leachate monitoring well ground water elevations in March, June and September and the MW-2S, MW-3S and MW-5S were higher than the LMW-10 well in December. Data indicate a consistent inward gradient at monitoring wells MW-2S, MW-3S and MW-5S throughout 2013 and an inward gradient at MW-4S for most of 2013. The MW-9S ground water elevation was higher than the LMW-10 ground water elevation for March, June, September and December.

Trend graphs of historical ground water elevation data indicate a decreasing trend in ground water elevation in the LMW-12 leachate monitoring well and a slight increasing trend at LMW-10 and LMW-11. With the exception of monitoring well MW-2S, ground water monitoring well ground water elevations exhibited a slight increasing trend. Ground water elevations in MW-2S indicate 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 an inward gradient (toward the landfill) between perimeter landfill monitoring wells MW-2S, MW-3S, MW-4S, MW-5S and MW-9S and the landfill leachate monitoring wells within the landfill slurry wall during all or most of 2013.

4.0 2013 SITE INSPECTIONS

4.1 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.

4.2 Quarterly Inspections

Delaware Engineering performed quarterly 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.

Inspections conducted throughout 2013 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 2013 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.

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 (currently protected with silt fence).
- Erosion channel near fence south side of landfill east of RW-3 and west of constructed wetland.
- Animal burrow in tac-on-berm approximately 20 feet east of the north down chute.
- Erosion in tac-on-berm south of LMW-12 and south of new downchute east side of landfill.
- Erosion south side of access road at culvert inside the City of Rome landfill gate.
- Erosion tac-on-berm west of man-gate to MW-2 north side of landfill
- Erosion on west side of the new down chute north side of landfill east of gate to MW-3

None of the operational flares have been ignited indicating low methane concentrations in the area of the landfill where the flares are located.

5.0 2013 GROUND WATER / LEACHATE PUMPING SYSTEM

For each recovery well, readings from the flow totalizers in the meter pit were recorded during the quarterly inspections. Leachate flows for each recovery well for the period from December 6, 2012 to December 19, 2013 are presented below. A summary of the 2013 leachate pumping volumes is provided in Table 3.

RW-1	0 gallons

RW-2	654,700 gallons
RW-3	331,800 gallons
RW-4	0 gallons
Total Gallons	986,500 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	1,526,300
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	2,122,700
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
2011 (1/31/2011 to 12/22/2011)	0	2,162,500	356,500	0	2,519,000
2012 (12/22/2011 to 12/06/2012)	0	1,211,900	361,100	0	1,573,000
2013 (12/06/2012 to 12/19/2013)	0	654,700	331,800	0	986,500
TOTAL	4,573,293	19,027,616	6,602,200	3,893,700	34,096,809

During 2013 recovery wells RW-1 and RW-4 were not 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.

TABLES

Table 1
City of Rome Tannery Road Landfill
September 2013 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	0.2	0.3	0.2	<0.1	0.3	0.2	**86.4**	2.0
Biochemical Oxygen Demand (BOD) (mg/L)	<4.0	5	5	8	<4.0	6	3.9	35	NS
Boron (mg/L)	0.005	0.008	0.035	0.041	0.001	0.131	0.003	0.754	1
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)	57	24	47	859	147	62	61	127	NS
Chloride (mg/L)	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	99.2	250
Color (Pt-Co)	<5.0	**60**	**20**	**>70**	5	**>70**	**>70**	**30**	15
Nitrate-Nitrogen (mg/L)	0.03	0.03	0.03	0.02	<0.02	0.1	0.05	0.26	10
Sulfate (mg/L)	4.07	8.61	5.26	11.2	5.83	<2.0	14.2	<2.0	250
Total Alkalinity (mg/L)	1	60	210	760	40	160	230	22	NS
Total Cyanide (mg/L)	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	0.2
Total Dissolved Solids (mg/L)	<5.0	90	220	85	60	180	275	**1,200**	500
Total Hardness (mg/L)	4	62	181	47	49	150	160	954	NS
Total Kjeldahl Nitrogen (mg/L)	1.4	<1.0	<1.0	4.8	<1.0	1.7	<1.0	83.7	NS
Total Organic Carbon (mg/L)	2.4	7.4	11.3	35.9	3.9	27.6	23.9	37.1	NS
Total Phenols (mg/L)	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	**0.009**	0.001
Part 360 Routine Metals									
Cadmium (mg/L)	0.00023	<0.00015	<0.00015	0.0011	<0.00015	0.00015	0.00027	<0.00015	0.005
Calcium (mg/L)	1.13	19.6	54.8	12.7	14.6	42.9	54.3	161	NS
Iron (mg/L)	**1.32**	**4.7**	**19.6**	**3.82**	**5.41**	**16.1**	**5.29**	**65.8**	0.3
Lead (mg/L)	<0.002	<0.002	<0.002	0.022	<0.002	0.01	<0.002	0.003	0.025
Magnesium (mg/L)	0.354	3.21	10.8	3.37	3.13	10.4	5.92	**35.9**	35
Manganese (mg/L)	0.024	**0.626**	**0.929**	0.254	0.221	**1.24**	**0.601**	**0.911**	0.3
Potassium (mg/L)	0.263	2.75	7.89	1.15	0.936	7.14	2.86	134	NS
Sodium (mg/L)	0.649	0.902	0.926	1.54	0.574	3.49	**34.9**	**130**	20
Part 360 Baseline Metals (mg/L)									
Aluminum (mg/L)	10.3	0.025	0.018	4.83	0.28	0.512	0.305	0.032	NS
Antimony (mg/L)	<0.002	<0.002	<0.002	0.009	<0.002	<0.002	<0.002	<0.002	0.003
Arsenic (mg/L)	<0.002	0.002	<0.002	<0.002	<0.002	<0.002	0.003	<0.002	0.025
Barium (mg/L)	0.015	0.072	0.046	0.023	0.028	0.058	0.094	0.174	1
Beryllium (mg/L)	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	0.003 GV
Chromium (mg/L)	<0.003	<0.003	<0.003	0.008	<0.003	0.005	0.005	0.006	0.05
Chromium, Hexavalent (mg/L)	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	0.05
Cobalt (mg/L)	0.001	<0.001	<0.001	0.003	<0.001	<0.001	<0.001	0.003	NS
Copper (mg/L)	0.007	<0.001	<0.001	0.076	<0.001	<0.001	<0.001	<0.001	0.2
Mercury (mg/L)	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	0.0007
Nickel (mg/L)	0.0019	<0.00046	<0.00046	0.0079	0.00049	<0.00046	0.0046	0.00079	0.1
Selenium (mg/L)	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	0.01
Silver (mg/L)	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	0.05
Thallium (mg/L)	<0.003	<0.003	**0.003**	**0.005**	<0.003	**0.008**	<0.003	**0.008**	0.0005 GV
Vanadium (mg/L)	<0.011	<0.011	<0.011	<0.011	<0.011	<0.011	<0.011	<0.011	NS
Zinc (mg/L)	0.026	0.002	0.003	0.041	0.003	0.047	0.01	0.006	2
Field Parameters									
Conductivity (µmhos/cm)	20	140	340	90	100	320	370	1,700	NS
pH (s.u.)	**5.9**	**5.1**	**5.7**	**5.5**	**6.4**	6.9	**5.5**	6.5	6.5-8.5
Temperature (deg C)	13	13	14	14	14	12	14	14	NS
Turbidity (NTU)	**110**	**8**	**60**	**50**	**50**	**10**	**40**	**40**	5
Volatiles (ug/L)									
1,1,1,2-Tetrachloroethane (µg/L)	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	5
1,1,1-Trichloroethane (µg/L)	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	5
1,1,2,2-Tetrachloroethane (µg/L)	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	5
1,1,2-Trichloroethane (µg/L)	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	1
1,1-Dichloroethane (µg/L)	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	5
1,1-Dichloroethene (µg/L)	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	5
1,2,3-Trichloropropane (µg/L)	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	0.04
1,2-Dibromo-3-chloropropane (µg/L)	<10	<10	<10	<10	<10	<10	<10	<10	0.04
1,2-Dibromoethane (EDB) (µg/L)	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	5
1,2-Dichlorobenzene (µg/L)	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	3
1,2-Dichloroethane (µg/L)	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	0.6
1,2-Dichloropropane (µg/L)	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	1
1,4-Dichlorobenzene (µg/L)	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	**6.9**	3
2-Butanone (MEK) (µg/L)	<10	<10	<10	<10	<10	<10	<10	<10	50(GV)
2-Hexanone (µg/L)	<10	<10	<10	<10	<10	<10	<10	<10	50(GV)
4-Methyl 2-pentanone (µg/L)	<10	<10	<10	<10	<10	<10	<10	<10	50 (GV)
Acetone (µg/L)	<10	<10	<10	<10	<10	<10	<10	<10	50(GV)
Acrylonitrile (µg/L)	<25	<25	<25	<25	<25	<25	<25	<25	5
Benzene (µg/L)	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	**7.7**	1
Bromochloromethane (µg/L)	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	5
Bromodichloromethane (µg/L)	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	50(GV)
Bromoform (µg/L)	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	50(GV)
Bromomethane (µg/L)	<10	<10	<10	<10	<10	<10	<10	<10	5
Carbon disulfide (µg/L)	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	60 (GV)
Carbon tetrachloride (µg/L)	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	5
Chlorobenzene (µg/L)	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	**10**	5
Chloroethane (µg/L)	<10	<10	<10	<10	<10	<10	<10	**14**	5
Chloroform (µg/L)	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	7
Chloromethane (µg/L)	<10	<10	<10	<10	<10	<10	<10	<10	5
cis-1,2-Dichloroethene (µg/L)	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	5
cis-1,3-Dichloropropene (µg/L)	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	5
Dibromochloromethane (µg/L)	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	5
Dibromomethane (µg/L)	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	5
Ethyl benzene (µg/L)	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	5
Iodomethane (µg/L)	<10	<10	<10	<10	<10	<10	<10	<10	5

Table 1
City of Rome Tannery Road Landfill
September 2013 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
Methylene Chloride (µg/L)	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	5
Styrene (µg/L)	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	50
Tetrachloroethene (µg/L)	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	5
Toluene (µg/L)	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	5
trans-1,2-Dichloroethene (µg/L)	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	5
trans-1,3-Dichloropropene (µg/L)	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	5
trans-1,4-Dichloro-2-butene (µg/L)	<10	<10	<10	<10	<10	<10	<10	<10	5
Trichloroethene (µg/L)	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	5
Trichlorofluoromethane (µg/L)	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	5
Vinyl Acetate (µg/L)	<10	<10	<10	<10	<10	<10	<10	<10	NS
Vinyl Chloride (µg/L)	<10	<10	<10	<10	<10	<10	<10	<10	2
Xylenes (Total) (µg/L)	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	**5.1**	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.
4) J indicates estimated value below the laboratory practical quantitation limit but above the detection limit
5) S indicates reported value suspect based on data validation

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

WELL	MEASURING POINT ELEVATION (FT.)	3/28/2013	6/21/2013	9/16/2013	12/19/2013
MW-1S	449.59	4.7	5.11	6.01	5.39
MW-2S	459.44	6.95	6.57	7.51	7.01
MW-3S	456.4	3.49	3.7	3.66	3.68
MW-4S	456.19	3.84	3.87	4.23	4.08
MW-5S	457.15	3.62	4.61	4.97	4.76
MW-7S	452.25	8.31	7.78	9.03	8.04
MW-9S	456.38	3.85	3.87	3.95	3.82
LMW-10	486.3	34.62	34.66	34.77	34.17
LMW-11	502.4	51.61	50.29	51.68	51.04
LMW-12	483.11	31.78	31.72	31.94	*
PZ-1	454.37	7.47	5.83	6.98	6.26
MW-7D	451.79	8.56	7.95	9.27	8.33

Ground Water Elevation ft/msl

WELL	3/28/2013	6/21/2013	9/16/2013	12/19/2013
MW-1S	444.89	444.48	443.58	444.2
MW-2S	452.49	452.87	451.93	452.43
MW-3S	452.91	452.7	452.74	452.72
MW-4S	452.35	452.32	451.96	452.11
MW-5S	453.53	452.54	452.18	452.39
MW-7S	443.94	444.47	443.22	444.21
MW-9S	452.53	452.51	452.43	452.56
LMW-10	451.68	451.64	451.53	452.13
LMW-11	450.79	452.11	450.72	451.36
LMW-12	451.33	451.39	451.17	*
PZ-1	446.9	448.54	447.39	448.11
MW-7D	443.23	443.84	442.52	443.46

LMW-12 Comparison

WELL	3/28/2013	6/21/2013	9/16/2013	12/19/2013
MW-1S	6.44	6.91	7.59	*
MW-2S	-1.16	-1.48	-0.76	*
MW-3S	-1.58	-1.31	-1.57	*
MW-4S	-1.02	-0.93	-0.79	*
MW-5S	-2.2	-1.15	-1.01	*
MW-7S	7.39	6.92	7.95	*
MW-9S	-1.2	-1.12	-1.26	*
LMW-10	-0.35	-0.25	-0.36	*
LMW-11	0.54	-0.72	0.45	*
PZ-1	4.43	2.85	3.78	*
MW-7D	8.1	7.55	8.65	*

LMW-10 Comparison

WELL	3/28/2013	6/21/2013	9/16/2013	12/19/2012
MW-1S	6.79	7.16	7.95	7.93
MW-2S	-0.81	-1.23	-0.4	-0.3
MW-3S	-1.23	-1.06	-1.21	-0.59
MW-4S	-0.67	-0.68	-0.43	0.02
MW-5S	-1.85	-0.9	-0.65	-0.26
MW-7S	7.74	7.17	8.31	7.92
MW-9S	-0.85	-0.87	-0.9	-0.43
PZ-1	4.78	3.1	4.14	4.02
MW-7D	8.45	7.8	9.01	8.67

LMW-11 Comparison

WELL	3/28/2013	6/21/2013	9/16/2013	12/19/2013
MW-1S	5.9	7.63	7.14	7.16
MW-2S	-1.7	-0.76	-1.21	-1.07
MW-3S	-2.12	-0.59	-2.02	-1.36
MW-4S	-1.56	-0.21	-1.24	-0.75
MW-5S	-2.74	-0.43	-1.46	-1.03
MW-7S	6.85	7.64	7.5	7.15
MW-9S	-1.74	-0.4	-1.71	-1.2
PZ-1	3.89	3.57	3.33	3.25
MW-7D	7.56	8.27	8.2	7.9

Notes:
1) A negative number indicates an inward gradient.
2) * Obstruction in well casing unable to obtain water level measurement.

Table 3
Operational Data
City of Rome
Tannery Road Landfill

Pump Station at Tannery Road
Hour Meters

	12/6/2012	3/28/2013	6/21/2013	9/16/2013	12/19/2013	12/06/2012 - 12/19/2013
Pump #1	98,510	99,458	100,409	101,626	102,656	4,146
Pump #2	83,784	84,577	85,363	86,345	87,180	3,396

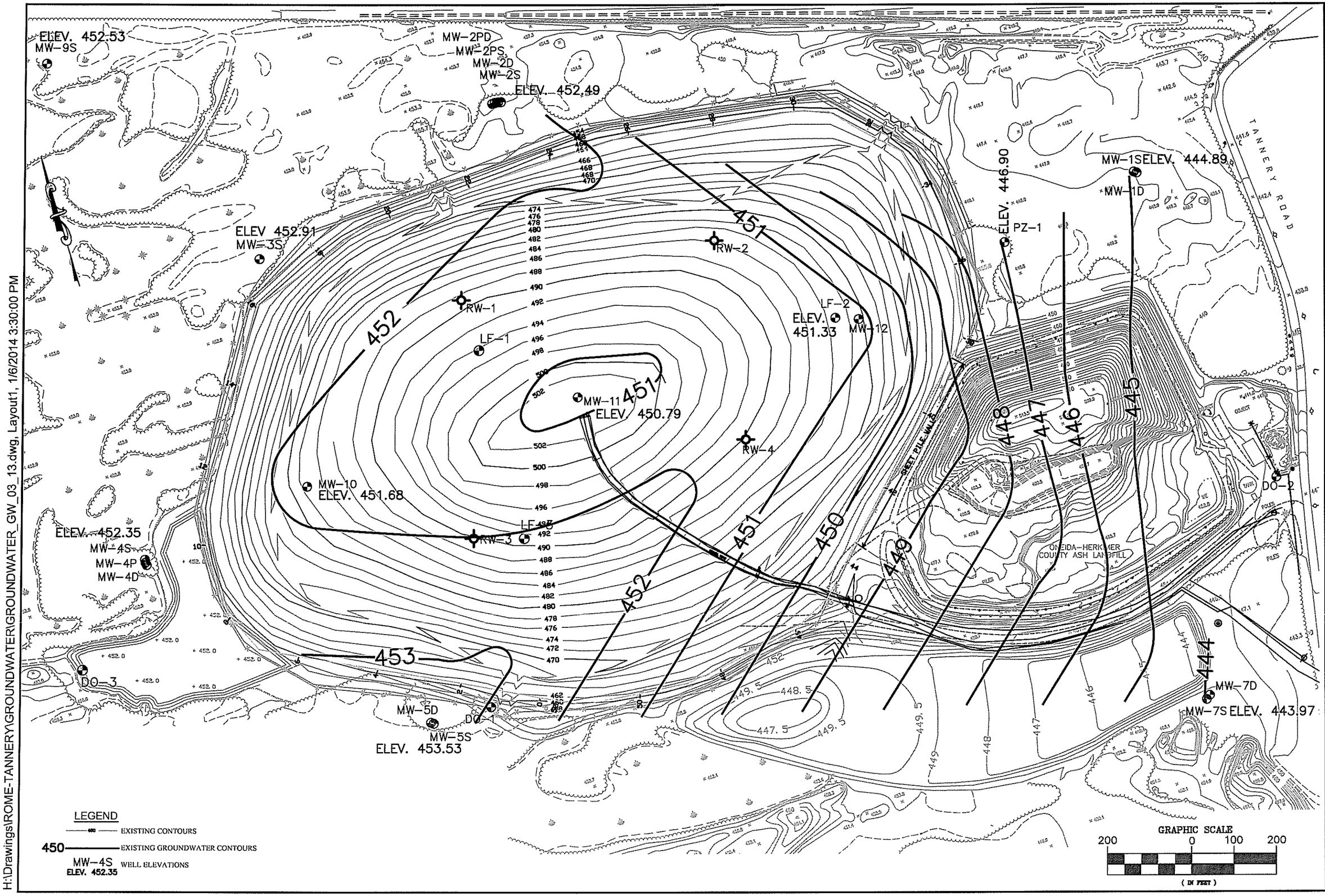
Totalizers in Meter Pit

	12/6/2012	3/28/2013	6/21/2013	9/16/2013	12/19/2013	12/06/2012 - 12/19/2013
RW-1	4,538,600	4,538,600	4,538,600	4,538,600	4,538,600	0
RW-2	3,373,900		3,618,000	3,877,700	4,028,600	654,700
RW-3	4,270,400	4,385,100	4,438,900	4,499,600	4,602,200	331,800
RW-4	3,893,000	3,893,000	3,893,000	Removed	Removed	
Total						986,500

Hour Meters

	12/6/2012	3/28/2013	6/21/2013	9/16/2013	12/19/2013	12/06/2012 - 12/19/2013
RW-1	19,686.5	19,686.5	19,686.5	19,686.5	19,686.5	0
RW-2	71,550.5	71,598.3	72,653.3	74,708.7	76,124.3	4,574
RW-3	78,983.9	79,158.9	80,755.1	82,051.4	84,218.2	5,234
RW-4	28,401.5	28,401.5	28,401.5	28,401.5	28,401.5	0

FIGURES



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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 - 518.452.1299
6 TOWNSEND STREET, WALTON, NY 13856 - 607.865.32354

REVISIONS

NO.	DATE	DESCRIPTION

TANNERY ROAD LANDFILL
CITY OF ROME, NEW YORK

GROUNDWATER CONTOUR MAP
SHALLOW OVERBURDEN
DATED: MARCH 2013
GROUNDWATER TABLE

SHEET: 1

ELEV. 452.51
MW-9S

MW-2PD
MW-2PS
MW-2D
MW-2S
ELEV. 452.87

ELEV 452.70
MW-3S

RW-2
RW-1
LF-1
LF-2
ELEV. 451.39
MW-12

MW-11
ELEV. 452.11
RW-4

MW-10
ELEV. 451.64

ELEV. 452.32
MW-4S
MW-4P
MW-4D

LF-3
RW-3

DO-3

MW-5D
DO-1
MW-5S
ELEV. 452.54

ELEV. 448.54
MW-1S ELEV. 444.48
MW-1D
PZ-1

DO-2

MW-7D
MW-7S ELEV. 444.47

TANNERY ROAD

SHEET PILE WALL

ONEIDA-HERKIMER COUNTY SH LANDFILL

452 451 450 449 448 447 446 445

LEGEND

EXISTING CONTOURS

450 EXISTING GROUNDWATER CONTOURS

MW-4S ELEV. 452.32 WELL ELEVATIONS

GRAPHIC SCALE
200 0 100 200
(IN FEET)

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DATE: 01-06-13
DRAWN BY: KJ
SCALE: AS SHOWN
REVIEWED BY: EF
PROJECT NO.:
FILE:

DELAWARE ENGINEERING, P.C.
CIVIL AND ENVIRONMENTAL ENGINEERING
8 1/2 DIETZ STREET, SUITE 303, ONEONTA, NY 13820 - 607.432.8073
28 MADISON AVENUE EXT., ALBANY, NY 12203 - 518.482.1299
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 2013
GROUNDWATER TABLE

SHEET: 1

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ELEV. 452.43
MW-9S

MW-2PD
MW-2PS
MW-2D
MW-2S
ELEV. 451.93

ELEV 452.74
MW-3S

RW-2

RW-1

LF-1

LF-2
ELEV. 451.17
MW-12

MW-11
ELEV. 450.72

RW-4

MW-10
ELEV. 451.53

ELEV. 451.96
MW-4S
MW-4P
MW-4D

LF-3
RW-3

DO-3

MW-5D
DO-1
MW-5S
ELEV. 452.18

ELEV. 447.39
PZ-1

MW-1S ELEV. 443.58
MW-1D

DO-2

MW-7D
MW-7S ELEV. 443.22

TANNERY ROAD

SHEET PILE WALL

ONEIDA-HERKIMER COUNTY SH LANDFILL

LEGEND

- EXISTING CONTOURS
- EXISTING GROUNDWATER CONTOURS
- MW-4S ELEV. 452.18 WELL ELEVATIONS

GRAPHIC SCALE
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(IN FEET)

DATE: 01-06-13
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 - 607.432.6073
28 MADISON AVENUE EXTENSION, ALBANY, NY 12203 - 518.452.1290
6 TOWNSEND STREET, WALTON, NY 13856 - 607.865.3234

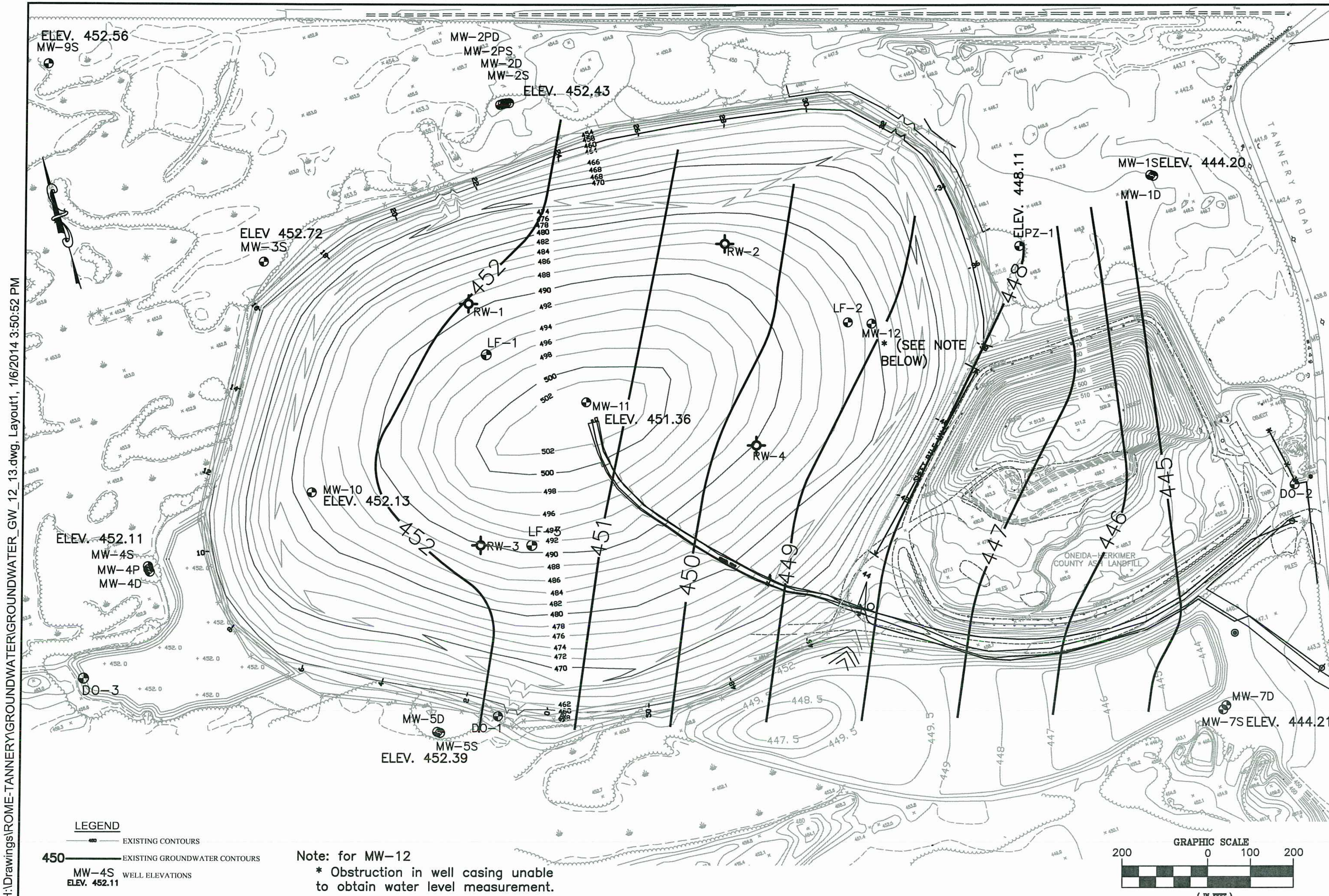
REVISIONS

NO.	DATE	DESCRIPTION

TANNERY ROAD LANDFILL
CITY OF ROME, NEW YORK

GROUNDWATER CONTOUR MAP
SHALLOW OVERBURDEN
DATED: SEPTEMBER 2013
GROUNDWATER TABLE

SHEET: 1



Note: for MW-12
* Obstruction in well casing unable to obtain water level measurement.

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REVIEWED BY: EF
PROJECT NO.:
FILE:

DELAWARE ENGINEERING, P.C.
CIVIL AND ENVIRONMENTAL ENGINEERING
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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: DECEMBER 2013
GROUNDWATER TABLE

SHEET: 1

APPENDIX A

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	03/22/05	06/28/05	09/27/05	12/06/05
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	51	71	130	40
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**	6.66	**6.2**	6.8	7.4
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	4.3		12	6
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**	**124**	**120**	**5**	**68**
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	0.09	<0.03	1.3	<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	<4.0	<4.0	<4.0	<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					<0.5
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	<0.10	<0.1	<0.1	<0.1	<0.1	<0.1	0.14	<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	22	27	30	15
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	2.1	2.7	4.1	<1.0
Color (Pt-Co)	15		46					**30**					**50**	**20**					8					**180**					**160**
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	<0.1	0.12	0.18	<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	7.3	6.8	6.4	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	4	3	48	1
Total Cyanide (mg/L)	0.2		<0.010					<0.010					<0.010	<0.010					<0.01					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	14	50	88	36
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	<7.0	7	7	6.3
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	0.32	0.66	0.66	0.27
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	5.5	8.3	11	3.4
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	<0.010	<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	<0.01	<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	<1.0	2.8	15	1.7
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	**4.2**	**5.9**	**13**	**3.2**
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	<0.01	<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	<1.0	<1.0	2.6	<1
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	0.049	0.1	**0.54**	0.046
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	<1.0	<1.0	2.9	<1
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	<1.0	<1.0	2.5	1
Part 360 Additional Baseline Metals																													
Aluminum (mg/L)	NS		32					25					5	8.9					3					2.1					2.8
Antimony (mg/L)	0.003		<0.015					**0.012**					<0.010	<0.010					<0.01					<0.01					<0.01
Arsenic (mg/L)	0.025	0.018	<0.010					<0.010					<0.010	<0.010					0.013					<0.01					<0.01
Barium (mg/L)	1	0.431	<0.2					<0.2					<0.2	<0.2					<0.2					<0.2					<0.1
Beryllium (mg/L)	0.003 (GV)	<0.003	<0.010					<0.010					<0.010	<0.010					<0.01					<0.01					<0.01
Chromium (mg/L)	0.05	0.047	0.01					<0.010					<0.010	<0.010					<0.01					<0.01					<0.01
Chromium, Hexavalent (mg/L)	0.05	<0.010	<0.010					<0.010					<0.010	<0.010					<0.01					<0.01					<0.01
Cobalt (mg/L)	NS	<0.020	<0.010					<0.010					<0.010	<0.010					<0.01					<0.01					<0.01
Copper (mg/L)	0.2	0.041	0.022					<0.010					<0.010	<0.010					0.012					<0.01					<0.01
Mercury (mg/L)	0.0007	<0.0002	0.00053					<0.0002					<0.0002	0.000300					<0.0002					<0.0002					0.00042
Nickel (mg/L)	0.1	0.039	0.012					<0.010					<0.010	<0.010					<0.01					<0.01					<0.01
Selenium (mg/L)	0.01	<0.005	<0.010					<0.010					<0.010	<0.010					<0.01					<0.01					<0.01
Silver (mg/L)	0.05	<0.010	<0.010					<0.010					<0.010	<0.010					<0.01					<0.01					<0.01
Thallium (mg/L)	0.0005 (GV)	<0.010	<0.010					<0.010					<0.010	<0.010					<0.01					<0.01					**0.02**
Vanadium (mg/L)	NS	0.031	0.012					<0.010					<0.010	<0.010					<0.01					<0.01					<0.01
Zinc (mg/L)	2	0.149	0.1					0.04					0.033						0.094					0.022					0.027
Part 360 Volatile Organics																													
1,1,1,2-Tetrachloroethane (µg/L)	5	<5.0	<5.0					<5.0					<5.0	<5.0					<5					<1					<1
1,1,1-Trichloroethane (µg/L)	5	<5.0	<5.0					<5.0					<5.0	<5.0				<5	<5					<1					<1
1,1,2,2-Tetrachloroethane (µg/L)	5	<5.0	<5.0					<5.0					<5.0	<5.0				<5	<5					<1					<1
1,1,2-Trichloroethane (µg/L)	1	<5.0	<5.0					<5.0					<5.0	<5.0				<5	<5					<1					<1
1,1-Dichloroethane (µg/L)	5	<5.0	<5.0					<5.0					<5.0	<5.0				<5	<5					<1					<1
1,1-Dichloroethene (µg/L)	5	<5.0	<5.0					<5.0					<5.0	<5.0				<5	<5					<1					<1
1,2,3-Trichloropropane (µg/L)	0.04							<5.0					<5.0	<5.0					<5					<1					<1
1,2-Dibromo-3-chloropropane (µg/L)	0.04	<10.0	<5.0					<5.0					<5.0	<5.0					<5					<1					<1
1,2-Dibromoethane (EDB) (µg/L)	5	<5.0	<5.0					<5.0					<5.0	<5.0					<5					<1					<1
1,2-Dichlorobenzene (µg/L)	3	<5.0	<5.0					<5.0					<5.0	<5.0					<5					<1					<1
1,2-Dichloroethane (µg/L)	0.6	<5.0	<5.0					<5.0					<5.0	<5.0				<5	<5					<1					<1
1,2-Dichloropropane (µg/L)	1	<5.0	<5.0					<5.0					<5.0	<5.0				<5	<5					<1					<1
1,4-Dichlorobenzene (µg/L)	3	<5.0	<10.0					<10.0					<10.0	<10.0					<5					<1					<1
2-Butanone (MEK) (µg/L)	50 (GV)	<10.0	<10.0					<10.0					<10.0	<10.0				<10	<10					<10					<5
2-Hexanone (µg/L)	50 (GV)	<10.0	<10.0					<10.0					<10.0	<10.0				<10	<10					<10					<5
4-Methyl 2-pentanone (µg/L)	NS	<10.0	<10.0					<20.0					<20.0	<20.0				<10	<10					<10					<5
Acetone (µg/L)	50 (GV)	<10.0	<20.0					<5.0					<5.0	<5.0				11	<10					<10					<10
Acrylonitrile (µg/L)	5	<100	<5.0					<5.0					<5.0	<5.0					<20					<5					<20
Benzene (µg/L)	1	<5.0	<5.0					<5.0					<5.0	<5.0				<5	<5					<1					<1
Bromochloromethane (µg/L)	5	<5.0	<5.0					<5.0					<5.0	<5.0					<5					<1					<1
Bromodichloromethane (µg/L)	50 (GV)	<5.0	<5.0					<5.0					<5.0	<5.0				<5	<5					<1					<1
Bromoform (µg/L)	50 (GV)	<5.0	<5.0					<5.0					<5.0	<5.0				<5	<5					<1					<1
Bromomethane (µg/L)	5	<5.0	<5.0					<5.0					<5.0	<5.0				<5	<5					<1					<1
Carbon disulfide (µg/L)	60 (GV)	<5.0	<5.0					<5.0					<5.0	<5.0				<5	<5					<1					<1
Carbon tetrachloride (µg/L)	5	<5.0	<5.0					<5.0					<5.0	<5.0				<5	<5					<1					<1
Chlorobenzene (µg/L)	5	<5.0	<5.0					<5.0					<5.0	<5.0				<5	<5					<1					<1
Chloroethane (µg/L)	5	<5.0	<5.0					<5.0					<5.0	<5.0				<5	<5					<1					<1
Chloroform (µg/L)	7	<5.0	<5.0					<5.0					<5.0	<5.0				<5	<5					<1					<1
Chloromethane (µg/L)	5	<5.0	<5.0					<5.0					<5.0	<5.0				<5	<5					<1					<1

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	03/22/05	06/28/05	09/27/05	12/06/05
cis-1,2-Dichloroethene (µg/L)	5		<5.0					<5.0					<5.0	<5.0					<5					<1				<1
cis-1,3-Dichloropropene (µg/L)	0.4**		<5.0					<5.0					<5.0	<5.0				<5	<5					<1				<1
Dibromochloromethane (µg/L)	50 (GV)		<5.0					<5.0					<5.0	<5.0				<5	<5					<1				<1
Dibromomethane (µg/L)	5		<5.0					<20.0					<20.0	<10.0					<5					<1				<1
Ethyl benzene (µg/L)	5		<5.0					<10.0					<10.0	<10.0				<5	<5					<1				<1
Iodomethane (µg/L)	5		<5.0					<5.0					<5.0	<5.0					<10					<10				<5
Methylene Chloride (µg/L)	5		<5.0					<5.0					<5.0	<5.0				<10	<10					<10				<5
Styrene (µg/L)	5							<5					<5	<5				<5	<5					<1				<1
Tetrachloroethene (µg/L)	5		<5.0					<5.0					<5.0	<5.0				<5	<5					<1				<1
Toluene (µg/L)	5		<5.0					<5.0					<5.0	<5.0				<5	<5					<1				<1
trans-1,2-Dichloroethene (µg/L)	5		<5.0					<5.0					<5.0	<5.0					<5					<1				<1
trans-1,3-Dichloropropene (µg/L)	0.4**		<5.0					<50.0					<50.0	<10.0				<5	<5					<1				<1
trans-1,4-Dichloro-2-butene (µg/L)	5							<50					<50	<10					<10					<10				<5
Trichloroethene (µg/L)	5		<5.0					<5.0					<5.0	<5.0				<5	<5					<1				<1
Trichlorofluoromethane (µg/L)	5		<5.0					<5.0					<5.0	<5.0					<5					<1				<1
Vinyl Acetate (µg/L)	NS		<50.0					<20.0					<20.0	<20.0					<20					<5				<5
Vinyl Chloride (µg/L)	2		<5.0					<5.0					<5.0	<5.0				<5	<5					<1				<1
Xylenes (Total) (µg/L)	5		<5.0					<5.0					<5.0	<5.0				<5	<5					<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

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

Date	NYSDEC Ground Water Standard	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	3/24/2010	6/23/2010	9/22/2010	12/21/2010	3/29/2011	6/18/2012	9/16/2013
Field Parameter																								
Conductivity (µmhos/cm)	NS	20	230	47	20	19	23	62	18	18	18	44	152	18	28	76	17	25	14	43	19	25	24	20
pH (s.u.)	6.5 - 8.5	**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	**5.98**	6.66	6.74	**5.69**	7.05	7.65	**5.9**
Temperature (deg C)	NS	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	5.3	12.1	13.6	5.8	3.7	12.2	13
Turbidity (NTU)	5	**218**	3	-	**65**	0	**119**	**116**	**57**	**30**	**83**	4	4	**50**	**18**	**91**	**10**	**59**	**16**	**88**	0	**87**	**87**	**110**
Dissolved Oxygen (mg/L)	NS						7.58																	
Redox	NS						63																	
Part 360 Leachate Indicator Parameters																								
Ammonia-Nitrogen (mg/L)	2	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	<0.1	<0.1	0.2	<0.1	<0.1	<0.1	<0.1
Biochemical Oxygen Demand (BOD5) (mg/L)	NS	<4	<4.0	<4	<4	<4	<4	6	<4	<5	<4	<4	<4	<4	<4	<4.0	<4.0	<2.0	<2.0	<4.0	<4.0	<4.0	<4.0	<4.0
Boron (mg/L)	1	<0.5					<0.5					<0.5					<0.5	0.002				0.0049	0.0045	0.005
Bromide (mg/L)	2	<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	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Chemical Oxygen Demand (mg/L)	NS	12	<5.0	23	11	9.6	11	31	14	<5	<5	<5	25	<5	<5	16	<5.0	21.4	<5.0	22	13	9	<5.0	57
Chloride (mg/L)	250	<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	1.2	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Color (Pt-Co)	15	**100**					**80**					**30**					<5	<5.0				<5.0	10	<5.0
Nitrate-Nitrogen (mg/L)	10	<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	<0.020	<0.020	0.08	<0.02	0.03	<0.02	0.03
Sulfate (mg/L)	250	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	4.6	4.45	6.12	6.08	5.54	9.17	4.07
Total Alkalinity (mg/L)	NS	2	2	46	4	2	4	18	<1	3	4	13	2	2	<3	19	<3.0	2	3	12	3	4	2	1
Total Cyanide (mg/L)	0.2	<0.01					0.011					<0.01					<0.01	<0.010				<0.01	<0.01	<0.010
Total Dissolved Solids (mg/L)	500	20	20	54	34	12	52	74	12	<10	32	90	20	20	<10	40	<10	20	107	30	28	45	<10.0	<5.0
Total Hardness (mg/L)	NS	<7	<7.0	26	<7	<7	33	25	<7	<7	<7	12	<7	<7	<7	26	<7.0	3	<5.0	16	6	6	3	4
Total Kjeldahl Nitrogen (mg/L)	NS	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	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	1.4
Total Organic Carbon (mg/L)	NS	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	5.7	3.7	9.6	4	3.6	4.2	2.4
Total Phenols (mg/L)	0.001	<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	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Part 360 Routine Metals																								
Cadmium (mg/L)	0.005	<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	0.00027	<0.005	<0.005	<0.005	0.00048	<0.00021	0.00023
Calcium (mg/L)	NS	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	0.572	0.572	5.12	1.9	1.7	0.697	1.13
Iron (mg/L)	0.3*	**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**	**1.91**	**2.43**	**7.35**	**1.25**	**0.819**	**1.61**	**1.32**
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	0.017	<0.010	<0.01	<0.002	<0.005	<0.005	<0.005	<0.0019	<0.0018	<0.002
Magnesium (mg/L)	35 (GV)	<1	<1.0	1.3	<1	<1	<1	1.1	<1	<1	<1	<1	<1	<1	16	1.4	<1.0	0.351	0.38	0.717	0.333	0.326	0.366	0.354
Manganese (mg/L)	0.3*	<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	0.02	0.025	0.221	0.032	0.0229	0.0195	0.024
Potassium (mg/L)	NS	<1	<1.0	1.6	<1	<1	1.2	1.2	<1	<1	<1	0.83	6	<1	28	<1.0	<1.0	0.179	0.242	0.591	0.167	0.197	0.203	0.263
Sodium (mg/L)	20	1.1	1.3	<1	<1	1	2.5	<1	<1	<1	<1	<1	1.1	<1	**31**	<1.0	<1.0	0.431	0.432	0.518	0.46	0.665	0.448	0.649
Part 360 Additional Baseline Metals																								
Aluminum (mg/L)	NS	3.3					1.6					2.3					1.3	1.87				2.4	2.68	10.3
Antimony (mg/L)	0.003	<0.01					<0.01					<0.01					<0.01	<0.020				<0.0196	<0.0011	<0.002
Arsenic (mg/L)	0.025	<0.01					<0.01					<0.01					<0.01	<0.002				0.0025	<0.0022	<0.002
Barium (mg/L)	1	<0.2					<0.2					<0.2					<0.1	0.007				0.0075	0.0116	0.015
Beryllium (mg/L)	0.003 (GV)	<0.01					<0.01					<0.01					<0.01	<0.00014				0.00017	<0.00016	<0.0001
Chromium (mg/L)	0.05	<0.01					<0.01					<0.01					<0.01	<0.005				0.0063	<0.0051	<0.003
Chromium, Hexavalent (mg/L)	0.05	**3.3**					<0.01					<0.01					<0.01	<0.020				<0.020	<0.02	<0.020
Cobalt (mg/L)	NS	<0.01					<0.01					<0.01					<0.01	0.001				0.0012	0.0013	0.001
Copper (mg/L)	0.2	<0.01					<0.04					<0.01					<0.01	<0.003				0.0028	<0.0025	0.007
Mercury (mg/L)	0.0007	<0.0002					<0.0002					<0.0002					<0.0002	<0.00007				<0.00006	<0.0001	<0.15
Nickel (mg/L)	0.1	<0.01					<0.01					<0.01					<0.01	0.001				0.0011	0.0015	0.0019
Selenium (mg/L)	0.01	<0.01					<0.01					<0.01					<0.01	<0.003				0.004	0.0018	<0.003
Silver (mg/L)	0.05	<0.01					0.038					<0.01					<0.01	<0.003				<0.0028	<0.0014	<0.003
Thallium (mg/L)	0.0005 (GV)	**0.024**					<0.01					<0.01					<0.02	**0.004**				**0.0062**	**0.0057**	<0.003
Vanadium (mg/L)	NS	<0.01					<0.01					<0.01					<0.01	<0.005				0.0077	<0.0054	<0.011
Zinc (mg/L)	2	0.021					<0.43					0.041					0.024	0.01				0.0253	0.0235	0.026
Part 360 Volatile Organics																								
1,1,1,2-Tetrachloroethane (µg/L)	5	<1					<1.0					<1					<1	<5.0				<5.0	<5.0	<5.0
1,1,1-Trichloroethane (µg/L)	5	<1					<1.0					<1					<1	<5.0				<5.0	<5.0	<5.0
1,1,2,2-Tetrachloroethane (µg/L)	5	<1					<1.0					<1					<1	<5.0				<5.0	<5.0	<5.0
1,1,2-Trichloroethane (µg/L)	1	<1					<1.0					<1					<1	<5.0				<5.0	<5.0	<5.0
1,1-Dichloroethane (µg/L)	5	<1					<1.0					<1					<1	<5.0				<5.0	<5.0	<5.0
1,1-Dichloroethene (µg/L)	5	<1					<1.0					<1					<1	<5.0				<5.0	<5.0	<5.0
1,2,3-Trichloropropane (µg/L)	0.04	<1					<1.0					<1					<1	<5.0				<5.0	<5.0	<5.0
1,2-Dibromo-3-chloropropane (µg/L)	0.04	<1					<1.0					<1					<1	<10				<10	<10	<10
1,2-Dibromoethane (EDB) (µg/L)	5	<1					<1.0					<1					<1	<5.0				<5.0	<5.0	<5.0
1,2-Dichlorobenzene (µg/L)	3	<1					<1.0					<1					<1	<5.0				<5.0	<5.0	<5.0
1,2-Dichloroethane (µg/L)	0.6	<1					<1.0					<1					<1	<5.0				<5.0	<5.0	<5.0
1,2-Dichloropropane (µg/L)	1	<1					<1.0					<1					<1	<5.0				<5.0	<5.0	<5.0
1,4-Dichlorobenzene (µg/L)	3	<1					<1.0					<1					<1	<5.0				<5.0	<5.0	<5.0
2-Butanone (MEK) (µg/L)	50 (GV)	<5					<5.0					<10					<10	<10				<10	<10	<10
2-Hexanone (µg/L)	50 (GV)	<5					<5.0					<10					<10	<10				<10	<10	<10
4-Methyl 2-pentanone (µg/L)	NS	<5					<5.0					<10					<10	<10				<10	<10	<10
Acetone (µg/L)	50 (GV)	<5					<5.0					<10					<10	<10				<10	<10	<10
Acrylonitrile (µg/L)	5	<20					<20					<20					<20	<25				<25	<25	<25
Benzene (µg/L)	1	<1					<1.0					<1					<1	<5.0				<5.0	<5.0	<5.0
Bromochloromethane (µg/L)	5	<1					<1.0					<1					<1	<5.0				<5.0	<5.0	<5.0
Bromodichloromethane (µg/L)	50 (GV)	<1					<1.0					<1					<1	<5.0				<5.0	<5.0	<5.0
Bromoform (µg/L)	50 (GV)	<1					<1.0					<1					<1	<5.0				<5.0	<5.0	<5.0
Bromomethane (µg/L)	5	<1					<1.0					<1					<1	<10				<10	<10	<10
Carbon disulfide (µg/L)	60 (GV)	<1					<1.0					<1					<1	<5.0				<5.0	<5.0	<5.0
Carbon tetrachloride (µg/L)	5	<1					<1.0					<1					<1	<5.0				<5.0	<5.0	<5.0
Chlorobenzene (µg/L)	5	<1					<1.0					<1					<1	<5.0				<5.0	<5.0	<5.0
Chloroethane (µg/L)	5	<1					<1.0					<1					<1	<10				<10	<10	<10
Chloroform (µg/L)	7	<1					<1.0					<1					<1	<5.0				<5.0	<5.0	<5.0
Chloromethane (µg/L)	5	<1					<1.0					<1					<1	<10				<10	<10	<10

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

Date	NYSDEC Ground Water Standard	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	3/24/2010	6/23/2010	9/22/2010	12/21/2010	3/29/2011	6/18/2012	9/16/2013
cis-1,2-Dichloroethene (µg/L)	5	<1					<1.0					<1					<1	<5.0				<5.0	<5.0	<5.0
cis-1,3-Dichloropropene (µg/L)	0.4**	<1					<1.0					<1					<1	<5.0				<5.0	<5.0	<5.0
Dibromochloromethane (µg/L)	50 (GV)	<1					<1.0					<1					<1	<5.0				<5.0	<5.0	<5.0
Dibromomethane (µg/L)	5	<1					<1.0					<1					<1	<5.0				<5.0	<5.0	<5.0
Ethyl benzene (µg/L)	5	<1					<1.0					<1					<1	<5.0				<5.0	<5.0	<5.0
Iodomethane (µg/L)	5	<5					<5.0					<5					<5	<10				<10	<10	<10
Methylene Chloride (µg/L)	5	<1					<1.0					<1					<1	<5.0				<5.0	<5.0	<5.0
Styrene (µg/L)	5	<1					<1.0					<1					<1	<5.0				<5.0	<5.0	<5.0
Tetrachloroethene (µg/L)	5	<1					<1.0					<1					<1	<5.0				<5.0	<5.0	<5.0
Toluene (µg/L)	5	<1					<1.0					<1					<1	<5.0				<5.0	<5.0	<5.0
trans-1,2-Dichloroethene (µg/L)	5	<1					<1.0					<1					<1	<5.0				<5.0	<5.0	<5.0
trans-1,3-Dichloropropene (µg/L)	0.4**	<1					<1.0					<1					<1	<5.0				<5.0	<5.0	<5.0
trans-1,4-Dichloro-2-butene (µg/L)	5	<5					<5.0					<5					<5	<10				<10	<10	<10
Trichloroethene (µg/L)	5	<1					<1.0					<1					<1	<5.0				<5.0	<5.0	<5.0
Trichlorofluoromethane (µg/L)	5	<1					<1.0					<1					<1	<5.0				<5.0	<5.0	<5.0
Vinyl Acetate (µg/L)	NS	<5					<5.0					<5					<5	<10				<10	<10	<10
Vinyl Chloride (µg/L)	2	<1					<1.0					<1					<1	<10				<10	<10	<10
Xylenes (Total) (µg/L)	5	<1					<1.0					<1					<1	<5.0				<5.0	<5.0	<5.0
1,2-Dichloroethene - Total	5																							

Notes

1) < indicates not de
2) NS indicates that
3) * indicates that th
4) GV indicates that
5) Values in bold ex
6) ** Indicates stand

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	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
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
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	3/29/2011	6/18/2012	9/16/2013
Field Parameters														
Conductivity (µmhos/cm)	NS	228	211	162	139	147	230	194	213	230	174	194	167	140
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	**6.39**	6.66	**5.1**
Temperature (deg C)	NS	10.8	8.4	8.1	12.5	11	8.8	7	10.1	10.4	9	7.1	10.6	13
Turbidity (NTU)	5	0	**8**	**22**	**8**	**9**	0	**121**	0	**35**	0	**39**	0	**8**
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	1	0.9	0.2
Biochemical Oxygen Demand (BOD5) (mg/L)	NS	<4	<4	<4	5.6	<4.0	<4.0	6	<2.0	<12	<4.0	<4.0	<4.0	5
Boron (mg/L)	1	<0.5					<0.5	0.009				0.0102	<0.00057	0.008
Bromide (mg/L)	2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<1.0	<1.0	<1.0	<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	22	23	24
Chloride (mg/L)	250	3.9	3.1	2.8	2.8	2.6	4.5	1.6	4.77	3.38	1.42	1.23	<1.0	<1.0
Color (Pt-Co)	15	**100**					**120**	**70**				**>70**	**>70**	**60**
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	0.03	<0.02	0.03
Sulfate (mg/L)	250	16	10	11	9.9	10	13	14.7	13.6	15	13.6	11.4	8.28	8.61
Total Alkalinity (mg/L)	NS	150	130	74	85	92	86	75	100	104	80	56	86	60
Total Cyanide (mg/L)	0.2	<0.01					<0.01	<0.010				<0.01	<0.01	<0.010
Total Dissolved Solids (mg/L)	500	210	110	110	110	96	140	120	8	172	130	145	100	90
Total Hardness (mg/L)	NS	98	83	69	71	70	91	74	107	104	75	74	90	62
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	3.6	2	<1.0
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	7.2	5.8	7.4
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	<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	0.00014	<0.00021	<0.00015
Calcium (mg/L)	NS	32	25	23	23	22	30	24.7	35.5	33.8	24.8	24.1	29.4	19.6
Iron (mg/L)	0.3*	**7.6**	**7.7**	**7.1**	**3.4**	**3**	**8.8**	**8.71**	**10.9**	**11.9**	**9.33**	**8.16**	**11.2**	**4.7**
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	<0.0019	<0.0018	<0.002
Magnesium (mg/L)	35 (GV)	4.4	5	2.9	3.3	3.5	3.7	2.88	4.49	4.75	3.18	3.33	3.98	3.21
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**	**0.745**	**0.799**	**0.626**
Potassium (mg/L)	NS	9.9	7.1	5.8	4.6	5.2	9	4.55	7.41	8.07	4.49	3.98	4.56	2.75
Sodium (mg/L)	20	1.9	2.2	1.1	1.1	<1.0	1.8	1.08	1.79	2.07	1.13	1.2	1.42	0.902
Part 360 Additional Baseline Metals														
Aluminum (mg/L)	NS	0.22					0.12	0.053				0.116	0.287	0.025
Antimony (mg/L)	0.003	<0.01					<0.01	<0.020				<0.0196	<0.0011	<0.002
Arsenic (mg/L)	0.025	<0.01					<0.01	0.002				0.0055	0.007	0.002
Barium (mg/L)	1	0.21					0.15	0.121				0.11	0.119	0.072
Beryllium (mg/L)	0.003 (GV)	<0.01					<0.01	<0.00014				0.00015	<0.00016	<0.0001
Chromium (mg/L)	0.05	<0.01					<0.01	<0.005				0.0084	<0.0051	<0.003
Chromium, Hexavalent (mg/L)	0.05	<0.01					<0.01	<0.020				<0.020	<0.02	<0.020
Cobalt (mg/L)	NS	<0.01					<0.01	<0.000				<0.00043	0.00036	<0.001
Copper (mg/L)	0.2	<0.01					<0.01	<0.003				<0.0025	<0.0025	<0.001
Mercury (mg/L)	0.0007	<0.0002					<0.0002	<0.00007				<0.00006	<0.0001	<0.15
Nickel (mg/L)	0.1	<0.01					<0.01	<0.001				<0.00056	<0.00029	<0.00046
Selenium (mg/L)	0.01	<0.01					<0.01	<0.003				<0.0025	<0.0015	<0.003
Silver (mg/L)	0.05	<0.01					<0.01	<0.003				<0.0028	<0.0014	<0.003
Thallium (mg/L)	0.0005 (GV)	<0.01					<0.02	**0.01**				**0.0168**	<0.0018	<0.003
Vanadium (mg/L)	NS	<0.01					<0.01	<0.005				<0.0049	0.0123	<0.011
Zinc (mg/L)	2	0.021					<0.02	0.007				0.0024	<0.0011	0.002
Part 360 Volatile Organics														
1,1,1,2-Tetrachloroethane (µg/L)	5	<1					<1	<5.0				<5.0	<5.0	<5.0
1,1,1-Trichloroethane (µg/L)	5	<1					<1	<5.0				<5.0	<5.0	<5.0
1,1,2,2-Tetrachloroethane (µg/L)	5	<1					<1	<5.0				<5.0	<5.0	<5.0
1,1,2-Trichloroethane (µg/L)	1	<1					<1	<5.0				<5.0	<5.0	<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	3/29/2011	6/18/2012	9/16/2013
1,1-Dichloroethane (µg/L)	5	<1					<1	<5.0				<5.0	<5.0	<5.0
1,1-Dichloroethene (µg/L)	5	<1					<1	<5.0				<5.0	<5.0	<5.0
1,2,3-Trichloropropane (µg/L)	0.04	<1					<1	<5.0				<5.0	<5.0	<5.0
1,2-Dibromo-3-chloropropane (µg/L)	0.04	<1					<1	<10				<10	<10	<10
1,2-Dibromoethane (EDB) (µg/L)	5	<1					<1	<5.0				<5.0	<5.0	<5.0
1,2-Dichlorobenzene (µg/L)	3	<1					<1	<5.0				<5.0	<5.0	<5.0
1,2-Dichloroethane (µg/L)	0.6	<1					<1	<5.0				<5.0	<5.0	<5.0
1,2-Dichloropropane (µg/L)	1	<1					<1	<5.0				<5.0	<5.0	<5.0
1,4-Dichlorobenzene (µg/L)	3	<1					<1	<5.0				<5.0	<5.0	<5.0
2-Butanone (MEK) (µg/L)	50 (GV)	<10					<10	<10				<10	<10	<10
2-Hexanone (µg/L)	50 (GV)	<10					<10	<10				<10	<10	<10
4-Methyl 2-pentanone (µg/L)	NS	<10					<10	<10				<10	<10	<10
Acetone (µg/L)	50 (GV)	<10					<10	<10				<10	<10	<10
Acrylonitrile (µg/L)	5	<20					<20	<25				<25	<25	<25
Benzene (µg/L)	1	<1					<1	<5.0				<5.0	<5.0	<5.0
Bromochloromethane (µg/L)	5	<1					<1	<5.0				<5.0	<5.0	<5.0
Bromodichloromethane (µg/L)	50 (GV)	<1					<1	<5.0				<5.0	<5.0	<5.0
Bromoform (µg/L)	50 (GV)	<1					<1	<5.0				<5.0	<5.0	<5.0
Bromomethane (µg/L)	5	<1					<1	<10				<10	<10	<10
Carbon disulfide (µg/L)	60 (GV)	<1					<1	<5.0				<5.0	<5.0	<5.0
Carbon tetrachloride (µg/L)	5	<1					<1	<5.0				<5.0	<5.0	<5.0
Chlorobenzene (µg/L)	5	<1					<1	<5.0				<5.0	<5.0	<5.0
Chloroethane (µg/L)	5	<1					<1	<10				<10	<10	<10
Chloroform (µg/L)	7	<1					<1	<5.0				<5.0	<5.0	<5.0
Chloromethane (µg/L)	5	<1					<1	<10				<10	<10	<10
cis-1,2-Dichloroethene (µg/L)	5	<1					<1	<5.0				<5.0	<5.0	<5.0
cis-1,3-Dichloropropene (µg/L)	0.4**	<1					<1	<5.0				<5.0	<5.0	<5.0
Dibromochloromethane (µg/L)	50 (GV)	<1					<1	<5.0				<5.0	<5.0	<5.0
Dibromomethane (µg/L)	5	<1					<1	<5.0				<5.0	<5.0	<5.0
Ethyl benzene (µg/L)	5	<1					<1	<5.0				<5.0	<5.0	<5.0
Iodomethane (µg/L)	5	<5					<5	<10				<10	<10	<10
Methylene Chloride (µg/L)	5	<1					<1	<5.0				<5.0	<5.0	<5.0
Styrene (µg/L)	5	<1					<1	<5.0				<5.0	<5.0	<5.0
Tetrachloroethene (µg/L)	5	<1					<1	<5.0				<5.0	<5.0	<5.0
Toluene (µg/L)	5	<1					<1	<5.0				<5.0	<5.0	<5.0
trans-1,2-Dichloroethene (µg/L)	5	<1					<1	<5.0				<5.0	<5.0	<5.0
trans-1,3-Dichloropropene (µg/L)	0.4**	<1					<1	<5.0				<5.0	<5.0	<5.0
trans-1,4-Dichloro-2-butene (µg/L)	5	<5					<5	<10				<10	<10	<10
Trichloroethene (µg/L)	5	<1					<1	<5.0				<5.0	<5.0	<5.0
Trichlorofluoromethane (µg/L)	5	<1					<1	<5.0				<5.0	<5.0	<5.0
Vinyl Acetate (µg/L)	NS	<5					<5	<10				<10	<10	<10
Vinyl Chloride (µg/L)	2	<1					<1	<10				<10	<10	<10
Xylenes (Total) (µg/L)	5	<1					<1	<5.0				<5.0	<5.0	<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	12/06/05
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	630
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	**6.2**
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	8
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**	**88**
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**	**36**
Biochemical Oxygen Demand (BOD5) (mg/l	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	<4
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					<0.5
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	<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	40
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	<1
Color (Pt-Co)	15		**290**					**1,200**					**750**	**900**				Frozen	**500**	<0.1	0.17	Frozen		**750**					**340**
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	<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	30
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	260
Total Cyanide	0.2		<0.01					<0.01					<0.01	<0.01				Frozen	<0.01	490	350	Frozen		<0.01					<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	280
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	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	28
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	19
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**	**0.0039**
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	<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	29
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**	**14**
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	<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	8.5
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**	**0.45**
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	110	66	70	74	66	60
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	2.6
Part 360 Baseline Metals																												
Aluminum (mg/L)	NS	4.04	1.8	1	0.91		1.3	0.44	2.5
Antimony (mg/L)	0.003	<0.015	0.043	<0.01	<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	0.019
Barium (mg/L)	1	**1.25**	**1.3**	0.61	0.5		0.27	<0.2	0.16
Beryllium (mg/L)	0.003 (GV)	<0.003	0.01	<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	<0.01
Chromium, Hexavalent (mg/L)	0.05	<0.01	<0.01	<0.01	<0.5		<0.01	<0.01	<0.01
Cobalt (mg/L)	NS	<0.02	0.013	<0.01	<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	<0.01
Mercury (mg/L)	0.0007	<0.0002	<0.0002	0.007	<0.0002		<0.0002	<0.0002	<0.0002
Nickel (mg/L)	0.1	<0.03	0.033	0.019	0.027		<0.01	0.011	<0.01
Selenium (mg/L)	0.01	<0.005	<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
Thallium (mg/L)	0.0005 (GV)	0.0139	<0.01	<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	0.014
Zinc (mg/L)	2	0.107	0.062	0.025	0.021		0.091	0.02	0.018
Volatile Organics									
1,1,1,2-Tetrachloroethane (µg/L)	5		<5	<5	<5	Frozen	<5	<1	<1
1,1,1-Trichloroethane (µg/L)	5	<5	<5	<5	<5	Frozen	<5	<1	<1
1,1,2,2-Tetrachloroethane (µg/L)	5	<5	<5	<5	<5	Frozen	<5	<1	<1
1,1,2-Trichloroethane (µg/L)	1	<5	<5	<5	<5	Frozen	<5	<1	<1
1,1-Dichloroethane (µg/L)	5	<5	<5	<5	<5	Frozen	<5	<1	<1
1,1-Dichloroethene (µg/L)	5	<5	<5	<5	<5	Frozen	<5	<1	<1
1,2,3-Trichloropropane (µg/L)	0.04		<5	<5	<5	Frozen	<5	<1	<1
1,2-Dibromo-3-chloropropane (µg/L)	0.04	<10	<5	<5	<5	Frozen	<5	<1	<1
1,2-Dibromoethane (EDB) (µg/L)	5	<5	<5	<5	<5	Frozen	<5	<1	<1
1,2-Dichlorobenzene (µg/L)	3	<5	<5	<5	<5	Frozen	<5	<1	<1
1,2-Dichloroethane (µg/L)	0.6	<5	<5	<5	<5	Frozen	<5	<1	<1
1,2-Dichloropropane (µg/L)	1	<5	<5	<5	<5	Frozen	<5	<1	<1
1,4-Dichlorobenzene (µg/L)	3	<5	<5	<5	<5	Frozen	<5	<1	<1
2-Butanone (MEK) (µg/L)	50 (GV)	<10	<10	<10	<10	Frozen	<10	<10	<5
2-Hexanone (µg/L)	50 (GV)	<10	<10	<10	<10	Frozen	<10	<10	<5
4-Methyl 2-pentanone (µg/L)	NS	<10	<10	<10	<10	Frozen	<10	<10	<5
Acetone (µg/L)	50 (GV)	21	<10	<10	<10	Frozen	<10	<10	<10
Acrylonitrile (µg/L)	5	<<100	<20	<20	<20	Frozen	<20	<5	<20
Benzene (µg/L)	1	<5	<5	<5	<5	Frozen	<5	<1	<1
Bromochloromethane (µg/L)	5	<5	<5	<5	<5	Frozen	<5	<1	<1
Bromodichloromethane (µg/L)	50 (GV)	<5		<5	<5	Frozen	<5	<1	<1
Bromoform (µg/L)	50 (GV)	<5	<5	<5	<5	Frozen	<5	<1	<1
Bromomethane (µg/L)	5	<5	<5	<5	<5	Frozen	<5	<1	<1

CIty of Rome
Tannery Road Landfill
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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	12/06/05
Carbon disulfide (µg/L)	60 (GV)		6					<5					<5	<5				Frozen	<5					<1					<1
Carbon tetrachloride (µg/L)	5		<5					<5					<5	<5				Frozen	<5					<1					<1
Chlorobenzene (µg/L)	5		<5					<5					<5	<5				Frozen	<5					<1					<1
Chloroethane (µg/L)	5		<5					<5					<5	<5				Frozen	<5					<1					<1
Chloroform (µg/L)	7		<5					<5					<5	<5				Frozen	<5					<1					<1
Chloromethane (µg/L)	5		<5					<5					<5	<5				Frozen	<5					<1					<1
cis-1,2-Dichloroethene (µg/L)	5		<5					<5					<5	<5				Frozen	<5					<1					<1
cis-1,3-Dichloropropene (µg/L)	0.4**		<5					<5					<5	<5				Frozen	<5					<1					<1
Dibromochloromethane (µg/L)	50 (GV)		<5					<5					<5	<5				Frozen	<5					<1					<1
Dibromomethane (µg/L)	5		<5					<5					<5	<5				Frozen	<5					<1					<1
Ethyl benzene (µg/L)	5		<5					<5					<5	<5				Frozen	<5					<1					<1
Iodomethane (µg/L)	5		<5					<20					<20	<10				Frozen	<10					<10					<5
Methylene Chloride (µg/L)	5		<5					<10					<10	<10				Frozen	<10					<10					<5
Styrene (µg/L)	5							<5					<5	<5				Frozen	<5					<1					<1
Tetrachloroethene (µg/L)	5		<5					<5					<5	<5				Frozen	<5					<1					<1
Toluene (µg/L)	5		<5					<5					<5	<5				Frozen	<5					<1					<1
trans-1,2-Dichloroethene (µg/L)	5		<5					<5					<5	<5				Frozen	<5					<1					<1
trans-1,3-Dichloropropene (µg/L)	0.4**		<5					<5					<5	<5				Frozen	<5					<1					<1
trans-1,4-Dichloro-2-butene (µg/L)	5							<50					<50	<10				Frozen	<10					<10					<5
Trichloroethene (µg/L)	5		<5					<5					<5	<5				Frozen	<5					<1					<1
Trichlorofluoromethane (µg/L)	5		<5					<5					<5	<5				Frozen	<5					<1					<1
Vinyl Acetate (µg/L)	NS		<50					<20					<20	<20				Frozen	<20					<5					<5
Vinyl Chloride (µg/L)	2		<5					<5					<5	<5				Frozen	<5					<1					<1
Xylenes (Total) (µg/L)	5		<5					<5					<5	<5				Frozen	<5					<1					<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
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Parameter	NYSDEC Ground Water Standards	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	3/29/2011	6/18/2012	9/16/2013
Field Parameters																								
Conductivity (µmhos/cm)	NS	560	460	517	453	212	555	533	441	475	448	452	507	425	412	493	500	478	480	451	477	521	402	340
pH (s.u.)	6.5 - 8.5	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	**5.86**	**6.22**	**5.7**
Temperature (deg C)	NS	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	5	11.1	14
Turbidity (NTU)	5	**56**	**55**	-	**46**	0	**21**	**101**	**10**	**11**	**12**	0	**85**	**21**	**14**	3	0	**30**	0	**24**	0	**23**	0	**60**
Redox	NS						-83																	
Dissolved Oxygen (mg/L)	NS						3.99																	
Leachate Indicator Parameters																								
Ammonia-Nitrogen (mg/L)	2	**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	1.2	0.8	0.3
Biochemical Oxygen Demand (BOD5) (mg/l	NS	<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	9	2	5
Boron (mg/L)	1	<0.5					<0.5					<0.5					<0.5	0.022				0.0519	0.0093	0.035
Bromide (mg/L)	2	<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	<1.0	<1.0	<1.0
Chemical Oxygen Demand (mg/L)	NS	46	40	43	35	37	41	40	27	11	34	9.6	67	23	19	26	25	32.8	22	34	22	27	20	47
Chloride (mg/L)	250	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	<1.0	<1.0	<1.0
Color (Pt-Co)	15	**375**					**400**					**100**					**25**	10				**20**	**>70**	**20**
Nitrate-Nitrogen (mg/L)	10	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	<0.020	<0.02	0.03
Sulfate (mg/L)	250	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	<2.0	<2.0	5.26
Total Alkalinity (mg/L)	NS	300	270	280	250	300	300	280	250	270	250	260	280	240	220	250	250	260	250	240	255	250	210	210
Total Cyanide	0.2	<0.01					<0.01					<0.01					<0.01	<0.010				<0.01	<0.01	<0.010
Total Dissolved Solids (mg/L)	500	260	310	310	270	390	300	280	250	250	280	310	270	230	260	270	260	293	237	287	320	**5310 S**	200	220
Total Hardness (mg/L)	NS	130	160	150	160	190	120	160	170	180	180	170	220	190	210	210	230	222	246	203	142	25	204	181
Total Kjeldahl Nitrogen (mg/L)	NS	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	1.7	1.1	<1.0
Total Organic Carbon (mg/L)	NS	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	10.6	9.1	11.3
Total Phenols (mg/L)	0.001	<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	<0.002	<0.002	<0.002
Part 360 Routine Metals																								
Cadmium (mg/L)	0.005	<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	0.00035	<0.00021	<0.00015
Calcium (mg/L)	NS	33	42	40	41	44	42	41	41	42	42	41	54	49	55	52	64	62.7	72	59.1	71.3	72.7	62.6	54.8
Iron (mg/L)	0.3*	**19**	**17**	**15**	**16**	**21**	**23**	**18**	**18**	**21**	**18**	**19**	**52**	**19**	**22**	**27**	**23**	**24.9**	**22.4**	**26.3**	**26.9**	**11.3**	**22.4**	**19.6**
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	0.011	<0.010	<0.01	<0.002	<0.005	<0.005	0.006	0.0023	0.0025	<0.002
Magnesium (mg/L)	35 (GV)	13	14	13	15	19	19	15	16	18	17	16	21	17	18	20	18	15.9	16.3	13.4	15.5	16.2	11.5	10.8
Manganese (mg/L)	0.3*	**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**	**1.27**	**1.03**	**0.929**
Potassium (mg/L)	NS	53	47	44	19	30	35	40	26	32	25	25	19	17	16	20	18	13.2	16.2	12.9	12.5	10.3	9.05	7.89
Sodium (mg/L)	20	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	0.94	0.722	0.926
Part 360 Baseline Metals																								
Aluminum (mg/L)	NS	2.8					0.37					0.56					0.12	0.071				<0.00810	0.371	0.018
Antimony (mg/L)	0.003	<0.01					<0.01					<0.01					<0.01	<0.020				<0.0196	<0.0011	<0.002
Arsenic (mg/L)	0.025	<0.01					<0.01					<0.01					<0.01	<0.002				0.0034	0.003	<0.002
Barium (mg/L)	1	<0.2					<0.2					<0.2					<0.1	0.071				0.058	0.0505	0.046
Beryllium (mg/L)	0.003 (GV)	<0.01					<0.01					<0.01					<0.01	<0.00014				<0.00014	<0.00016	<0.0001
Chromium (mg/L)	0.05	<0.01					<0.01					<0.01					<0.01	<0.005				<0.0047	<0.0051	<0.003
Chromium, Hexavalent (mg/L)	0.05	<0.01					<0.01					<0.01					<0.01	<0.020				<0.020	<0.02	<0.020
Cobalt (mg/L)	NS	<0.01					<0.01					<0.01					<0.01	<0.000				<0.00043	0.00046	<0.001
Copper (mg/L)	0.2	<0.01					<0.04					<0.01					<0.01	<0.003				<0.0025	<0.0025	<0.001
Mercury (mg/L)	0.0007	<0.0002					<0.0002					<0.0002					<0.0002	<0.00007				<0.00006	<0.0001	<0.15
Nickel (mg/L)	0.1	<0.01					<0.01					<0.01					<0.01	<0.001				<0.00056	0.00044	<0.00046
Selenium (mg/L)	0.01	<0.01					<0.01					<0.01					<0.01	<0.003				<0.0025	<0.0015	<0.003
Silver (mg/L)	0.05	<0.01					**0.05**					<0.01					<0.01	<0.003				<0.0028	<0.0014	<0.003
Thallium (mg/L)	0.0005 (GV)	<0.01					<0.01					<0.01					<0.02	**0.028**				**0.0134**	**0.003**	0.003
Vanadium (mg/L)	NS	0.012					<0.01					<0.01					<0.01	<0.005				0.0069	<0.0054	<0.011
Zinc (mg/L)	2	0.018					0.045					0.027					<0.02	0.002				0.0047	0.0061	0.003
Volatile Organics																								
1,1,1,2-Tetrachloroethane (µg/L)	5	<1					<1.0					<1					<1	<5.0				<5.0	<5.0	<5.0
1,1,1-Trichloroethane (µg/L)	5	<1					<1.0					<1					<1	<5.0				<5.0	<5.0	<5.0
1,1,2,2-Tetrachloroethane (µg/L)	5	<1					<1.0					<1					<1	<5.0				<5.0	<5.0	<5.0
1,1,2-Trichloroethane (µg/L)	1	<1					<1.0					<1					<1	<5.0				<5.0	<5.0	<5.0
1,1-Dichloroethane (µg/L)	5	<1					<1.0					<1					<1	<5.0				<5.0	<5.0	<5.0
1,1-Dichloroethene (µg/L)	5	<1					<1.0					<1					<1	<5.0				<5.0	<5.0	<5.0
1,2,3-Trichloropropane (µg/L)	0.04	<1					<1.0					<1					<1	<5.0				<5.0	<5.0	<5.0
1,2-Dibromo-3-chloropropane (µg/L)	0.04	<1					<1.0					<1					<1	<10				<10	<10	<10
1,2-Dibromoethane (EDB) (µg/L)	5	<1					<1.0					<1					<1	<5.0				<5.0	<5.0	<5.0
1,2-Dichlorobenzene (µg/L)	3	<1					<1.0					<1					<1	<5.0				<5.0	<5.0	<5.0
1,2-Dichloroethane (µg/L)	0.6	<1					<1.0					<1					<1	<5.0				<5.0	<5.0	<5.0
1,2-Dichloropropane (µg/L)	1	<1					<1.0					<1					<1	<5.0				<5.0	<5.0	<5.0
1,4-Dichlorobenzene (µg/L)	3	<1					<1.0					<1					<1	<5.0				<5.0	<5.0	<5.0
2-Butanone (MEK) (µg/L)	50 (GV)	<5					<5.0					<10					<10	<10				<10	<10	<10
2-Hexanone (µg/L)	50 (GV)	<5					<5.0					<10					<10	<10				<10	<10	<10
4-Methyl 2-pentanone (µg/L)	NS	<5					<5.0					<10					<10	<10				<10	<10	<10
Acetone (µg/L)	50 (GV)	<5					<5.0					<10					<10	<10				<10	<10	<10
Acrylonitrile (µg/L)	5	<20					<20					<20					<20	<25				<25	<25	<25
Benzene (µg/L)	1	<1					<1.0					<1					<1	<5.0				<5.0	<5.0	<5.0
Bromochloromethane (µg/L)	5	<1					<1.0					<1					<1	<5.0				<5.0	<5.0	<5.0
Bromodichloromethane (µg/L)	50 (GV)	<1					<1.0					<1					<1	<5.0				<5.0	<5.0	<5.0
Bromoform (µg/L)	50 (GV)	<1					<1.0					<1					<1	<5.0				<5.0	<5.0	<5.0
Bromomethane (µg/L)	5	<1					<1.0					<1					<1	<10				<10	<10	<10

City of Rome
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Parameter	NYSDEC	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	3/29/2011	6/18/2012	9/16/2013
Carbon disulfide (µg/L)	60 (GV)	<1					<1.0					<1					<1	<5.0				<5.0	<5.0	<5.0
Carbon tetrachloride (µg/L)	5	<1					<1.0					<1					<1	<5.0				<5.0	<5.0	<5.0
Chlorobenzene (µg/L)	5	<1					<1.0					<1					<1	<5.0				<5.0	<5.0	<5.0
Chloroethane (µg/L)	5	<1					<1.0					<1					<1	<10				<10	<10	<10
Chloroform (µg/L)	7	<1					<1.0					<1					<1	<5.0				<5.0	<5.0	<5.0
Chloromethane (µg/L)	5	<1					<1.0					<1					<1	<10				<10	<10	<10
cis-1,2-Dichloroethene (µg/L)	5	<1					<1.0					<1					<1	<5.0				<5.0	<5.0	<5.0
cis-1,3-Dichloropropene (µg/L)	0.4**	<1					<1.0					<1					<1	<5.0				<5.0	<5.0	<5.0
Dibromochloromethane (µg/L)	50 (GV)	<1					<1.0					<1					<1	<5.0				<5.0	<5.0	<5.0
Dibromomethane (µg/L)	5	<1					<1.0					<1					<1	<5.0				<5.0	<5.0	<5.0
Ethyl benzene (µg/L)	5	<1					<1.0					<1					<1	<5.0				<5.0	<5.0	<5.0
Iodomethane (µg/L)	5	<5					<5.0					<5					<5	<10				<10	<10	<10
Methylene Chloride (µg/L)	5	<1					<1.0					<1					<1	<5.0				<5.0	<5.0	<5.0
Styrene (µg/L)	5	<1					<1.0					<1					<1	<5.0				<5.0	<5.0	<5.0
Tetrachloroethene (µg/L)	5	<1					<1.0					<1					<1	<5.0				<5.0	<5.0	<5.0
Toluene (µg/L)	5	<1					<1.0					<1					<1	<5.0				<5.0	<5.0	<5.0
trans-1,2-Dichloroethene (µg/L)	5	<1					<1.0					<1					<1	<5.0				<5.0	<5.0	<5.0
trans-1,3-Dichloropropene (µg/L)	0.4**	<1					<1.0					<1					<1	<5.0				<5.0	<5.0	<5.0
trans-1,4-Dichloro-2-butene (µg/L)	5	<5					<5.0					<5					<5	<10				<10	<10	<10
Trichloroethene (µg/L)	5	<1					<1.0					<1					<1	<5.0				<5.0	<5.0	<5.0
Trichlorofluoromethane (µg/L)	5	<1					<1.0					<1					<1	<5.0				<5.0	<5.0	<5.0
Vinyl Acetate (µg/L)	NS	<5					<5.0					<5					<5	<10				<10	<10	<10
Vinyl Chloride (µg/L)	2	<1					<1.0					<1					<1	<10				<10	<10	<10
Xylenes (Total) (µg/L)	5	<1					<1.0					<1					<1	<5.0				<5.0	<5.0	<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	9/26/06	12/13/06
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	300	155
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	6.81	**5.67**
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	13.2	9.2
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**	**-**	**6**
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**	**11**	**5**
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	<4.0	5.5	<4
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	<0.1	<0.1
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	130	80
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	13	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	<0.1	<0.1
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	29	17
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	100	48
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	220	150
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	41	39
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	15	7.2
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	55	34
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	<0.002	<0.05
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	<0.01	<0.01
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	12	10
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**	**2.8**	**2.8**
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	<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	2.8	3.2
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	<0.01	0.2
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	29	8.3
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	**26**	3.6
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			
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			

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	9/26/06	12/13/06
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) < indi
2) NS in
3) * indi
4) GV in
5) Value
6) ** Ind

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

Parameter	NYSDEC Ground Water Standard	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	3/29/2011	6/18/2012	9/16/2013
Field Parameter																				
Conductivity (µmhos/cm)	NS	83	507	668	140	170	209	504	770	106	88	387	168	93	136	325	207	230	197	90
pH (s.u.)	6.5 - 8.5	**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**	**6.13**	**6.17**	**5.5**
Temperature (deg C)	NS	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	4.7	10.9	14
Turbidity (NTU)	5	0	**13**	**15**	5	**9**	2	0	**32**	**17**	**6**	**20**	0	3	0	**28**	0	**14**	0	**50**
Redox	NS		-108																	
Dissolved Oxygen (mg/L)	NS		4.41																	
Part 360 Leachate Indicator Parameters																				
Ammonia-Nitrogen (mg/L)	2	**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**	**6.2**	**4.6**	0.2
Biochemical Oxygen Demand (BOD5) (mg/L)	NS	<20	9.5	17	<4	6.9	<4	13	<4	<4	<4	11	<4.0	<2.0	<2.0	61	<4.0	<4.0	2	8
Boron (mg/L)	1		0.63					0.9					<0.5	0.036				0.214	0.156	0.041
Bromide (mg/L)	2	<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	<1.0	<1.0	<1.0
Chemical Oxygen Demand (mg/L)	NS	75	190	200	55	93	100	210	75	48	8.9	160	50	54.1	83	171	98	88	90	859
Chloride (mg/L)	250	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	1.93	2.07	<1.0
Color (Pt-Co)	15		**240**					**300**					**60**	**70**				**>70**	**>70**	**>70**
Nitrate-Nitrogen (mg/L)	10	<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	0.02	<0.02	0.02
Sulfate (mg/L)	250	11	24	11	20	23	20	13	28	16	9.7	24	40	20.5	19.7	26.4	33.8	27	23	11.2
Total Alkalinity (mg/L)	NS	43	130	230	35	58	76	220	38	30	68	100	19	17	38	120	65	58	50	760
Total Cyanide (mg/L)	0.2		<0.01					<0.01					<0.01	<0.010				<0.01	<0.01	<0.010
Total Dissolved Solids (mg/L)	500	120	370	410	96	130	190	**500**	120	90	120	250	130	108	117	268	218	193	140	85
Total Hardness (mg/L)	NS	33	56	55	35	42	38	52	40	34	36	35	53	36	42	42	42	48	45	47
Total Kjeldahl Nitrogen (mg/L)	NS	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	9.5	4.5	4.8
Total Organic Carbon (mg/L)	NS	33	82	100	29	34	43	90	25	23	22	66	23	22.5	37	59.3	40.8	38.1	40.2	35.9
Total Phenols (mg/L)	0.001	<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	<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	<0.010	<0.01	<0.00013	<0.005	<0.005	<0.005	0.00026	<0.00021	0.0011
Calcium (mg/L)	NS	8.7	16	17	9.2	11	10	15	10	9	9.4	10	14	9.72	11.7	12.7	11.9	13	12.5	12.7
Iron (mg/L)	0.3*	**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**	**2.93**	**3.17**	**3.82**
Lead (mg/L)	0.025	<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	<0.0019	<0.0018	0.022
Magnesium (mg/L)	35 (GV)	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	3.72	3.36	3.37
Manganese (mg/L)	0.3*	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	**0.333**	**0.323**	0.254
Potassium (mg/L)	NS	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	12.2	5.68	1.15
Sodium (mg/L)	20	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	8.09	4.94	1.54
Part 360 Additional Basiline Metals																				
Aluminum (mg/L)	NS	1.6		2.6				0.77	0.678									1.05	1.37	4.83
Antimony (mg/L)	0.003	<0.01		<0.01				<0.01	<0.020									<0.0196	0.0017	0.009
Arsenic (mg/L)	0.025	<0.01		<0.01				<0.01	<0.002									0.0052	<0.0022	<0.002
Barium (mg/L)	1	<0.2		<0.2				<0.1	0.008									0.0242	0.0138	0.023
Beryllium (mg/L)	0.003 (GV)	<0.01		<0.01				<0.01	<0.00014									<0.00014	<0.00016	<0.0001
Chromium (mg/L)	0.05	0.015		<0.01				<0.01	<0.005									<0.0047	<0.0051	0.008
Chromium, Hexavalent (mg/L)	0.05	<0.01		<0.01				<0.01	<0.020									<0.020	<0.02	<0.020
Cobalt (mg/L)	NS	<0.01		<0.01				<0.01	<0.000									<0.00043	0.00069	0.003
Copper (mg/L)	0.2	<0.04		<0.01				<0.01	<0.003									<0.002	<0.0025	0.076
Mercury (mg/L)	0.0007	<0.0002		<0.0002				<0.0002	<0.00007									<0.00006	<0.0001	<0.15
Nickel (mg/L)	0.1	<0.01		0.011				<0.01	0.001									0.0018	0.002	0.0079
Selenium (mg/L)	0.01	<0.01		<0.01				<0.01	<0.003									<0.0025	<0.0015	<0.003
Silver (mg/L)	0.05	**0.052**		<0.01				<0.01	<0.003									<0.0028	<0.0014	<0.003
Thallium (mg/L)	0.0005 (GV)	<0.01		<0.01				<0.02	**0.009**									**0.0335**	**0.003**	0.005
Vanadium (mg/L)	NS	0.012		0.016				<0.01	0.007									<0.0049	0.0067	<0.011
Zinc (mg/L)	2	0.01		0.025				0.025	0.009									0.0105	0.0017	0.041
Part 360 Volatile Organics																				
1,1,1,2-Tetrachloroethane (µg/L)	5	<1.0		<20				<1	<5.0									<5.0	<5.0	<5.0
1,1,1-Trichloroethane (µg/L)	5	<1.0		<20				<1	<5.0									<5.0	<5.0	<5.0
1,1,2,2-Tetrachloroethane (µg/L)	5	<1.0		<20				<1	<5.0									<5.0	<5.0	<5.0
1,1,2-Trichloroethane (µg/L)	1	<1.0		<20				<1	<5.0									<5.0	<5.0	<5.0
1,1-Dichloroethane (µg/L)	5	<1.0		<20				<1	<5.0									<5.0	<5.0	<5.0
1,1-Dichloroethene (µg/L)	5	<1.0		<20				<1	<5.0									<5.0	<5.0	<5.0
1,2,3-Trichloropropane (µg/L)	0.04	<1.0		<20				<1	<5.0									<5.0	<5.0	<5.0
1,2-Dibromo-3-chloropropane (µg/L)	0.04	<1.0		<20				<1	<10									<10	<10	<10
1,2-Dibromoethane (EDB) (µg/L)	5	<1.0		<20				<1	<5.0									<5.0	<5.0	<5.0
1,2-Dichlorobenzene (µg/L)	3	<1.0		<20				<1	<5.0									<5.0	<5.0	<5.0
1,2-Dichloroethane (µg/L)	0.6	<1.0		<20				<1	<5.0									<5.0	<5.0	<5.0
1,2-Dichloropropane (µg/L)	1	<1.0		<20				<1	<5.0									<5.0	<5.0	<5.0
1,4-Dichlorobenzene (µg/L)	3	<1.0		<20				<1	<5.0									<5.0	<5.0	<5.0
2-Butanone (MEK) (µg/L)	50 (GV)	<5.0		<200				<10	<10									<10	<10	<10
2-Hexanone (µg/L)	50 (GV)	<5.0		<200				<10	<10									<10	<10	<10
4-Methyl 2-pentanone (µg/L)	NS	<5.0		<200				<10	<10									<10	<10	<10
Acetone (µg/L)	50 (GV)	<5.0		<200				<10	<10									<10	<10	<10
Acrylonitrile (µg/L)	5	<20		<500				<20	<25									<25	<25	<25
Benzene (µg/L)	1	<1.0		<20				<1	<5.0									<5.0	<5.0	<5.0
Bromochloromethane (µg/L)	5	<1.0		<20				<1	<5.0									<5.0	<5.0	<5.0
Bromodichloromethane (µg/L)	50 (GV)	<1.0		<20				<1	<5.0									<5.0	<5.0	<5.0

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

Parameter	NYSDEC Ground Water Standard	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	3/29/2011	6/18/2012	9/16/2013
Bromoform (µg/L)	50 (GV)		<1.0					<20					<1	<5.0				<5.0	<5.0	<5.0
Bromomethane (µg/L)	5		<1.0					<20					<1	<10				<10	<10	<10
Carbon disulfide (µg/L)	60 (GV)		<1.0					<20					<1	<5.0				<5.0	<5.0	<5.0
Carbon tetrachloride (µg/L)	5		<1.0					<20					<1	<5.0				<5.0	<5.0	<5.0
Chlorobenzene (µg/L)	5		<1.0					<20					<1	<5.0				<5.0	<5.0	<5.0
Chloroethane (µg/L)	5		<1.0					<20					<1	<10				<10	<10	<10
Chloroform (µg/L)	7		<1.0					<20					<1	<5.0				<5.0	<5.0	<5.0
Chloromethane (µg/L)	5		<1.0					<20					<1	<10				<10	<10	<10
cis-1,2-Dichloroethene (µg/L)	5		<1.0					<20					<1	<5.0				<5.0	<5.0	<5.0
cis-1,3-Dichloropropene (µg/L)	0.4**		<1.0					<20					<1	<5.0				<5.0	<5.0	<5.0
Dibromochloromethane (µg/L)	50 (GV)		<1.0					<20					<1	<5.0				<5.0	<5.0	<5.0
Dibromomethane (µg/L)	5		<1.0					<20					<1	<5.0				<5.0	<5.0	<5.0
Ethyl benzene (µg/L)	5		<1.0					<20					<1	<5.0				<5.0	<5.0	<5.0
Iodomethane (µg/L)	5		<5.0					<100					<5	<10				<10	<10	<10
Methylene Chloride (µg/L)	5		<1.0					<20					<1	<5.0				<5.0	<5.0	<5.0
Styrene (µg/L)	5		<1.0					<20					<1	<5.0				<5.0	<5.0	<5.0
Tetrachloroethene (µg/L)	5		<1.0					<20					<1	<5.0				<5.0	<5.0	<5.0
Toluene (µg/L)	5		<1.0					<20					<1	<5.0				<5.0	<5.0	<5.0
trans-1,2-Dichloroethene (µg/L)	5		<1.0					<20					<1	<5.0				<5.0	<5.0	<5.0
trans-1,3-Dichloropropene (µg/L)	0.4**		<1.0					<20					<1	<5.0				<5.0	<5.0	<5.0
trans-1,4-Dichloro-2-butene (µg/L)	5		<5.0					<100					<5	<10				<10	<10	<10
Trichloroethene (µg/L)	5		<1.0					<20					<1	<5.0				<5.0	<5.0	<5.0
Trichlorofluoromethane (µg/L)	5		<1.0					<20					<1	<5.0				<5.0	<5.0	<5.0
Vinyl Acetate (µg/L)	NS		<5.0					<100					<5	<10				<10	<10	<10
Vinyl Chloride (µg/L)	2		<1.0					<20					<1	<10				<10	<10	<10
Xylenes (Total) (µg/L)	5		<1.0					<20					<1	<5.0				<5.0	<5.0	<5.0
1,2-Dichloroethene - Total	5																			

cates not detected at or above the listed value
dicates that no standard has been promulgated.
cates that the sum of these two analytes may not exceed 500 µg/L.
dicates that the value listed is a guidance value rather than a standard.
s in bold exceeded the applicable NYSDEC ground water standard/guidance value.
licates 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	6/28/06	9/26/06
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	420	102
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	7.2	7.19
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	11	12
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**	**10**	-
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	0.055	<0.03
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	<4.0	<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	<0.10	<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	8.9	16
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	2.5	2.9
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	<0.10	0.13
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	8.6	8.8
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	44	52
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	66	120
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	55	49
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	0.23	0.48
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	4.7	4.3
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**	**0.0032**	<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	<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	16	15
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**	**2.6**	**2.8**
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	<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	3.7	2.9
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**	**0.32**	<0.01
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	1.7	1.8
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	<1.0	<1
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		
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		

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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	9/26/06
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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Parameter	NYSDEC Ground Water Standard	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	3/29/2011	6/18/2012	9/16/2013
Field Parameter																					
Conductivity (µmhos/cm)	NS	324	172	109	97	324	326	79	80	324	274	108	81	119	52	185	129	237	252	100	100
pH (s.u.)	6.5 - 8.5	**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	**5.98**	6.77	**6.4**
Temperature (deg C)	NS	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	4.2	9.6	14
Turbidity (NTU)	5	**28**	0	**161**	**260**	**15**	**55**	**78**	3	**74**	**121**	**310**	**127**	**22**	**107**	**116**	**102**	0	**73**	**97**	**50**
Redox	NS			-8																	
Dissolved Oxygen (mg/L)	NS			5.14																	
Part 360 Leachate Indicator Parameters																					
Ammonia-Nitrogen (mg/L)	2	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	0.2	<0.1	<0.1
Biochemical Oxygen Demand (BOD5) (mg/L)	NS	<4	<4	<4	<4	5.2	<5	<4	<4	<4	<4	<4	<4.0	<4.0	<2.0	<2.0	<4.0	<4.0	<4.0	<4.0	<4.0
Boron (mg/L)	1			<0.5					<0.5					<0.5	<0.001				0.0066	<0.00057	0.001
Bromide (mg/L)	2	<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	<1.0	<1.0	<1.0
Chemical Oxygen Demand (mg/L)	NS	23	12	19	30	14	30	<5	7.6	40	14	<5	20	<5.0	8.2	<5.0	9	13	8	<5.0	147
Chloride (mg/L)	250	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	<1.0	<1.0	<1.0
Color (Pt-Co)	15			**100**					**200**					<5	<5.0				10	5	5
Nitrate-Nitrogen (mg/L)	10	<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	0.02	<0.02	<0.02
Sulfate (mg/L)	250	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	5.32	6.32	5.83
Total Alkalinity (mg/L)	NS	150	78	56	44	170	150	37	240	200	140	120	78	60	17	95	50	135	100	44	40
Total Cyanide (mg/L)	0.2			<0.01					<0.01					<0.01	<0.010				<0.01	<0.01	<0.010
Total Dissolved Solids (mg/L)	500	210	140	86	74	210	160	82	92	170	120	48	48	<10	25	102	95	138	153	60	60
Total Hardness (mg/L)	NS	150	78	110	45	160	140	42	41	150	110	18	34	68	22	111	54	113	109	53	49
Total Kjeldahl Nitrogen (mg/L)	NS	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	1.7	<1.0	<1.0
Total Organic Carbon (mg/L)	NS	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	4.8	3.1	3.9
Total Phenols (mg/L)	0.001	<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	<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	<0.010	<0.01	<0.00013	<0.005	<0.005	<0.005	<0.00013	0.00023	<0.00015
Calcium (mg/L)	NS	47	23	16	13	48	43	13	12	45	35	4.6	9.6	20	6.02	32.5	15.5	34.6	32.1	15.4	14.6
Iron (mg/L)	0.3*	**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**	**3.39**	**8.94**	**5.41**
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	<0.010	<0.01	<0.002	<0.005	<0.005	<0.005	<0.0019	<0.0018	<0.002
Magnesium (mg/L)	35 (GV)	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	6.97	3.45	3.13
Manganese (mg/L)	0.3*	**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**	**0.585**	0.217	0.221
Potassium (mg/L)	NS	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	1.46	1.09	0.936
Sodium (mg/L)	20	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	0.705	0.418	0.574
Part 360 Additional Baseline Metals																					
Aluminum (mg/L)	NS			0.64					1.2					0.15	0.234				0.0462	0.445	0.28
Antimony (mg/L)	0.003			<0.01					<0.01					<0.01	<0.020				<0.0196	<0.0011	<0.002
Arsenic (mg/L)	0.025			<0.01					<0.01					<0.01	0.008				0.0039	0.0097	<0.002
Barium (mg/L)	1			<0.2					<0.2					<0.1	0.019				0.0323	0.0358	0.028
Beryllium (mg/L)	0.003 (GV)			<0.01					<0.01					<0.01	<0.00014				0.00019	<0.00016	<0.0001
Chromium (mg/L)	0.05			<0.01					<0.01					<0.01	<0.005				<0.0047	<0.0051	<0.003
Chromium, Hexavalent (mg/L)	0.05			<0.01					<0.01					<0.01	<0.020				<0.020	<0.02	<0.020
Cobalt (mg/L)	NS			<0.01					<0.01					<0.01	0.001				0.00067	0.00061	<0.001
Copper (mg/L)	0.2			<0.04					<0.01					<0.01	<0.003				<0.002	<0.0025	<0.001
Mercury (mg/L)	0.0007			<0.0002					<0.0002					<0.0002	<0.00007				<0.00006	<0.0001	<0.15
Nickel (mg/L)	0.1			<0.01					<0.01					<0.01	<0.001				0.00081	0.0011	0.00049
Selenium (mg/L)	0.01			<0.01					<0.01					<0.01	<0.003				<0.0025	<0.0015	<0.003
Silver (mg/L)	0.05			0.049					<0.01					<0.01	<0.003				<0.0028	<0.0014	<0.003
Thallium (mg/L)	0.0005 (GV)			<0.01					<0.01					<0.02	**0.003**				**0.0153**	<0.0018	<0.003
Vanadium (mg/L)	NS			<0.01					<0.01					<0.01	<0.005				<0.0049	<0.0054	<0.011
Zinc (mg/L)	2			0.023					0.022					<0.02	0.006				0.0026	0.0015	0.003
Part 360 Volatile Organics																					
1,1,1,2-Tetrachloroethane (µg/L)	5			<1.0					<1					<1	<5.0				<5.0	<5.0	<5.0
1,1,1-Trichloroethane (µg/L)	5			<1.0					<1					<1	<5.0				<5.0	<5.0	<5.0
1,1,2,2-Tetrachloroethane (µg/L)	5			<1.0					<1					<1	<5.0				<5.0	<5.0	<5.0
1,1,2-Trichloroethane (µg/L)	1			<1.0					<1					<1	<5.0				<5.0	<5.0	<5.0
1,1-Dichloroethane (µg/L)	5			<1.0					<1					<1	<5.0				<5.0	<5.0	<5.0
1,1-Dichloroethene (µg/L)	5			<1.0					<1					<1	<5.0				<5.0	<5.0	<5.0
1,2,3-Trichloropropane (µg/L)	0.04			<1.0					<1					<1	<5.0				<5.0	<5.0	<5.0
1,2-Dibromo-3-chloropropane (µg/L)	0.04			<1.0					<1					<1	<10				<10	<10	<10
1,2-Dibromoethane (EDB) (µg/L)	5			<1.0					<1					<1	<5.0				<5.0	<5.0	<5.0
1,2-Dichlorobenzene (µg/L)	3			<1.0					<1					<1	<5.0				<5.0	<5.0	<5.0
1,2-Dichloroethane (µg/L)	0.6			<1.0					<1					<1	<5.0				<5.0	<5.0	<5.0
1,2-Dichloropropane (µg/L)	1			<1.0					<1					<1	<5.0				<5.0	<5.0	<5.0
1,4-Dichlorobenzene (µg/L)	3			<1.0					<10					<1	<5.0				<5.0	<5.0	<5.0
2-Butanone (MEK) (µg/L)	50 (GV)			<5.0					<10					<10	<10				<10	<10	<10
2-Hexanone (µg/L)	50 (GV)			<5.0					<10					<10	<10				<10	<10	<10
4-Methyl 2-pentanone (µg/L)	NS			<5.0					<20					<10	<10				<10	<10	<10
Acetone (µg/L)	50 (GV)			<5.0					<1					<10	<10				<10	<10	<10
Acrylonitrile (µg/L)	5			<20					<1					<20	<25				<25	<25	<25
Benzene (µg/L)	1			<1.0					<1					<1	<5.0				<5.0	<5.0	<5.0
Bromochloromethane (µg/L)	5			<1.0					<1					<1	<5.0				<5.0	<5.0	<5.0

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

Parameter	NYSDEC Ground Water Standard	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	3/29/2011	6/18/2012	9/16/2013
Bromodichloromethane (µg/L)	50 (GV)			<1.0					<1					<1	<5.0				<5.0	<5.0	<5.0
Bromoform (µg/L)	50 (GV)			<1.0					<1					<1	<5.0				<5.0	<5.0	<5.0
Bromomethane (µg/L)	5			<1.0					<1					<1	<10				<10	<10	<10
Carbon disulfide (µg/L)	60 (GV)			<1.0					<1					<1	<5.0				<5.0	<5.0	<5.0
Carbon tetrachloride (µg/L)	5			<1.0					<1					<1	<5.0				<5.0	<5.0	<5.0
Chlorobenzene (µg/L)	5			<1.0					<1					<1	<5.0				<5.0	<5.0	<5.0
Chloroethane (µg/L)	5			<1.0					<1					<1	<10				<10	<10	<10
Chloroform (µg/L)	7			<1.0					<1					<1	<5.0				<5.0	<5.0	<5.0
Chloromethane (µg/L)	5			<1.0					<1					<1	<10				<10	<10	<10
cis-1,2-Dichloroethene (µg/L)	5			<1.0					<1					<1	<5.0				<5.0	<5.0	<5.0
cis-1,3-Dichloropropene (µg/L)	0.4**			<1.0					<1					<1	<5.0				<5.0	<5.0	<5.0
Dibromochloromethane (µg/L)	50 (GV)			<1.0					<1					<1	<5.0				<5.0	<5.0	<5.0
Dibromomethane (µg/L)	5			<1.0					<5					<1	<5.0				<5.0	<5.0	<5.0
Ethyl benzene (µg/L)	5			<1.0					<1					<1	<5.0				<5.0	<5.0	<5.0
Iodomethane (µg/L)	5			<5.0					<1					<5	<10				<10	<10	<10
Methylene Chloride (µg/L)	5			<1.0					<1					<1	<5.0				<5.0	<5.0	<5.0
Styrene (µg/L)	5			<1.0					<1					<1	<5.0				<5.0	<5.0	<5.0
Tetrachloroethene (µg/L)	5			<1.0					<1					<1	<5.0				<5.0	<5.0	<5.0
Toluene (µg/L)	5			<1.0					<1					<1	<5.0				<5.0	<5.0	<5.0
trans-1,2-Dichloroethene (µg/L)	5			<1.0					<5					<1	<5.0				<5.0	<5.0	<5.0
trans-1,3-Dichloropropene (µg/L)	0.4**			<1.0					<1					<1	<5.0				<5.0	<5.0	<5.0
trans-1,4-Dichloro-2-butene (µg/L)	5			<5.0					<1					<5	<10				<10	<10	<10
Trichloroethene (µg/L)	5			<1.0					<5					<1	<5.0				<5.0	<5.0	<5.0
Trichlorofluoromethane (µg/L)	5			<1.0					<1					<1	<5.0				<5.0	<5.0	<5.0
Vinyl Acetate (µg/L)	NS			<5.0					<1					<5	<10				<10	<10	<10
Vinyl Chloride (µg/L)	2			<1.0										<1	<10				<10	<10	<10
Xylenes (Total) (µg/L)	5			<1.0										<1	<5.0				<5.0	<5.0	<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-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	12/6/05
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	730
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	**6.1**
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	9
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**	**98**
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**	**22**
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	<4
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					0.55
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	<0.1
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	93
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	24
Color (Pt-Co)	15		**280**					**750**					**850**	**750**					**600**					**675**					**350**
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	<0.1
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	5
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	300
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	**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	360
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	200
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	19
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	38
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**	**0.0044**
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
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	80	76	24	57	54	49	21	45	32	33	51
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**	**27**
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**	<0.01
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	17
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**	**0.62**
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	26
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	**25**
Part 360 Additional Baseline Metals																													
Aluminum (mg/L)	NS		0.439					1					1.2	0.83					2.3					1.1					1.4
Antimony (mg/L)	0.003		<0.015					**0.034**					<0.01	<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					0.024
Barium (mg/L)	1		0.217					<0.2					0.43	0.49					0.61					0.23					0.22
Beryllium (mg/L)	0.003 (GV)		<0.003					<0.01					<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					<0.01
Chromium, Hexavalent (mg/L)	0.05		<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
Copper (mg/L)	0.2		<0.01					<0.01					0.022	<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
Nickel (mg/L)	0.1		<0.03					<0.01					<0.01	<0.01					<0.01					0.046					<0.01
Selenium (mg/L)	0.01		<0.005					<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
Thallium (mg/L)	0.0005 (GV)		**0.0105**					<0.01					<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					0.029
Zinc (mg/L)	2		0.056					0.067					0.036	0.034					0.097					0.041					0.029
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-Trichloroethane (µg/L)	5		<5.0					<5.0					<5.0	<5.0				<5	<5					<1					<1
1,1,2,2-Tetrachloroethane (µg/L)	5		<5.0					<5.0					<5.0	<5.0				<5	<5					<1					<1
1,1,2-Trichloroethane (µg/L)	1		<5.0					<5.0					<5.0	<5.0				<5	<5					<1					<1
1,1-Dichloroethane (µg/L)	5		<5.0					<5.0					<5.0	<5.0				<5	<5					<1					<1
1,1-Dichloroethene (µg/L)	5		<5.0					<5.0					<5.0	<5.0				<5	<5					<1					<1
1,2,3-Trichloropropane (µg/L)	0.04							<5.0					<5.0	<5.0					<5					<1					<1
1,2-Dibromo-3-chloropropane (µg/L)	0.04		<10.0					<5.0					<5.0	<5.0					<5					<1					<1
1,2-Dibromoethane (EDB) (µg/L)	5		<5.0					<5.0					<5.0	<5.0					<5					<1					<1
1,2-Dichlorobenzene (µg/L)	3		<5.0					<5.0					<5.0	<5.0					<5					<1					<1

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	12/6/05
1,2-Dichloroethane (µg/L)	0.6		<5.0					<5.0					<5.0	<5.0				<5	<5					<1				<1
1,2-Dichloropropane (µg/L)	1		<5.0					<5.0					<5.0	<5.0				<5	<5					<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
2-Hexanone (µg/L)	50 (GV)		<10.0					<10.0					<10.0	<10.0				<10	<10					<10				<5
4-Methyl 2-pentanone (µg/L)	NS		<10.0					<10.0					<10.0	<10.0				<10	<10					<10				<5
Acetone (µg/L)	50 (GV)		<10.0					<10.0					<10.0	<10.0				10	<10					<10				<10
Acrylonitrile (µg/L)	5		<100.0					<20.0					<20.0	<20.0					<20					<5				<20
Benzene (µg/L)	1		<5.0					**14**					**17**	**24**				**15**	**16**					**4.3**				**6.3**
Bromochloromethane (µg/L)	5		<5.0					<5.0					<5.0	<5.0					<5					<1				<1
Bromodichloromethane (µg/L)	50 (GV)		<5.0										<5.0	<5.0				<5	<5					<1				<1
Bromoform (µg/L)	50 (GV)		<5.0					<5.0					<5.0	<5.0				<5	<5					<1				<1
Bromomethane (µg/L)	5		<5.0					<5.0					<5.0	<5.0				<5	<5					<1				<1
Carbon disulfide (µg/L)	60 (GV)		<18.0					<5.0					<5.0	<5.0				<5	<5					<1				<1
Carbon tetrachloride (µg/L)	5		<5.0					<5.0					<5.0	<5.0				<5	<5					<1				<1
Chlorobenzene (µg/L)	5		**23**					**8.4**					**5.8**	**5.3**				<5	<5					4.4				4.1
Chloroethane (µg/L)	5		<5.0					<5.0					<5.0	<5.0				<5	<5					<1				<1
Chloroform (µg/L)	7		<5.0					<5.0					<5.0	<5.0				<5	<5					<1				<1
Chloromethane (µg/L)	5		<5.0					<5.0					<5.0	<5.0				<5	<5					<1				<1
cis-1,2-Dichloroethene (µg/L)	5		<5.0					<5.0					<5.0	<5.0					<5					<1				<1
cis-1,3-Dichloropropene (µg/L)	0.4**		<5.0					<5.0					<5.0	<5.0				<5	<5					<1				<1
Dibromochloromethane (µg/L)	50 (GV)		<5.0					<5.0					<5.0	<5.0				<5	<5					<1				<1
Dibromomethane (µg/L)	5		<5.0					<5.0					<5.0	<5.0					<5					<1				<1
Ethyl benzene (µg/L)	5		<5.0					<5.0					<5.0	<5.0				<5	<5					<1				<1
Iodomethane (µg/L)	5		<5.0					<20.0					<20.0	<10.0					<10					<10				<5
Methylene Chloride (µg/L)	5		<5.0					<10.0					<10.0	<10.0				<10	<10					<10				<5
Styrene (µg/L)	5							<5.0					<5.0	<5.0				<5	<5					<1				<1
Tetrachloroethene (µg/L)	5		<5.0					<5.0					<5.0	<5.0				<5	<5					<1				<1
Toluene (µg/L)	5		<5.0					<5.0					<5.0	<5.0				<5	<5					<1				<1
trans-1,2-Dichloroethene (µg/L)	5		<5.0					<5.0					<5.0	<5.0					<5					<1				<1
trans-1,3-Dichloropropene (µg/L)	0.4**		<5.0					<5.0					<5.0	<5.0				<5	<5					<1				<1
trans-1,4-Dichloro-2-butene (µg/L)	5							<50.0					<50.0	<10.0					<10					<10				<5
Trichloroethene (µg/L)	5		<5.0					<5.0					<5.0	<5.0				<5	<5					<1				<1
Trichlorofluoromethane (µg/L)	5		<5.0					<5.0					<5.0	<5.0					<5					<1				<1
Vinyl Acetate (µg/L)	NS		<50.0					<20.0					<20.0	<20.0					<20					<5				<5
Vinyl Chloride (µg/L)	2		<5.0					<5.0					<5.0	<5.0				<5	<5					<1				<1
Xylenes (Total) (µg/L)	5		2					**16**					**130**	**180**				**160**	**97**					<1				**110**
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

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

Parameter	NYSDEC Ground Water Standard	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	3/29/2011	6/18/2012	9/16/2013
Field Parameters																								
Conductivity (µmhos/cm)	NS	710	450	670	684	1,020	650	287	581	656	551	649	633	327	407	258	632	440	519	578	525	599	438	320
pH (s.u.)	6.5 - 8.5	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**	**5.15**	**5.79**	6.9
Temperature (deg C)	NS	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	9.1	11.4	12
Turbidity (NTU)	5	**78**	**67**	-	**40**	0	**76**	**33**	**43**	**36**	**59**	0	**215**	**79**	**56**	**9**	0	**20**	**10**	**100**	0	**45**	0	**10**
Redox	NS						-89																	
Dissolved Oxygen (mg/L)	NS						3.95																	
Part 360 Leachate Indicator Parameters																								
Ammonia-Nitrogen (mg/L)	2	**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**	**15.3**	**13**	0.3
Biochemical Oxygen Demand (BOD5) (mg/L)	NS	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	7	4	6
Boron (mg/L)	1	0.83					0.73					0.73					<0.5	0.162				0.336	0.256	0.131
Bromide (mg/L)	2	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	<1.0	<1.0	<1.0
Chemical Oxygen Demand (mg/L)	NS	110	110	110	110	100	100	12	93	68	75	73	80	75	67	56	62	69.9	62	80	59	70	67	62
Chloride (mg/L)	250	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	6.68	5.84	<1.0
Color (Pt-Co)	15	**750**					**400**					**400**					12	**70**				**>70**	**>70**	**>70**
Nitrate-Nitrogen (mg/L)	10	<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	0.03	0.02	0.1
Sulfate (mg/L)	250	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	<2.0	<2.0	<2.0
Total Alkalinity (mg/L)	NS	350	320	320	340	420	330	120	330	370	300	370	210	320	220	150	300	160	265	310	275	280	236	160
Total Cyanide (mg/L)	0.2	<0.01					<0.01					<0.01					<0.01	<0.010				<0.01	<0.01	<0.010
Total Dissolved Solids (mg/L)	500	430	400	430	440	490	420	190	340	390	370	470	280	340	320	250	330	270	272	340	330	335	260	180
Total Hardness (mg/L)	NS	210	180	210	210	220	160	100	180	210	460	190	170	190	160	150	190	174	205	193	191	209	173	150
Total Kjeldahl Nitrogen (mg/L)	NS	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	18.4	12.9	1.7
Total Organic Carbon (mg/L)	NS	41	38	43	39	42	40	25	36	36	34	34 J	33	37	34	26	34	29.8	27.9	27	27.8	27.8	26.2	27.6
Total Phenols (mg/L)	0.001	**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	<0.002	**0.002**	<0.002
Part 360 Routine Metals																								
Cadmium (mg/L)	0.005	<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	<0.00013	<0.00021	0.00015
Calcium (mg/L)	NS	52	46	54	53	56	43	24	49	54	130	53	45	50	45	41	51	48.2	55.8	51.2	52.2	55	46.8	42.9
Iron (mg/L)	0.3*	**31**	**27**	**28**	**27**	**30**	**25**	**19**	**25**	**29**	**23**	**27**	**21**	**25**	**22**	**20**	**25**	**33.8**	**24.1**	**25.5**	**24.2**	**23.1**	**20.1**	**16.1**
Lead (mg/L)	0.025	<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	0.0047	0.0039	0.01
Magnesium (mg/L)	35 (GV)	20	17	17	19	20	16	10	15	18	33	16	14	15	12	12	15	13.1	16.1	15.8	14.8	17.3	13.6	10.4
Manganese (mg/L)	0.3*	**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**	**0.629**	**0.669**	**1.24**
Potassium (mg/L)	NS	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	21.6	16.9	7.14
Sodium (mg/L)	20	**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	11.5	7.5	3.49
Part 360 Additional Baseline Metals																								
Aluminum (mg/L)	NS	2.6					1.4					2					0.88	0.811				0.292	0.965	0.512
Antimony (mg/L)	0.003	<0.01					<0.01					<0.01					<0.01	<0.020				<0.0196	<0.0011	<0.002
Arsenic (mg/L)	0.025	<0.01					<0.01					<0.01					<0.01	0.006				<0.0015	<0.0022	<0.002
Barium (mg/L)	1	0.31					<0.2					0.24					0.17	0.132				0.153	0.129	0.058
Beryllium (mg/L)	0.003 (GV)	<0.01					<0.01					<0.01					<0.01	0.00017				<0.00014	<0.00016	<0.0001
Chromium (mg/L)	0.05	<0.01					0.026					<0.01					<0.01	<0.005				<0.0047	<0.0051	0.005
Chromium, Hexavalent (mg/L)	0.05	<0.01					<0.01					<0.01					<0.01	<0.020				<0.020	<0.02	<0.020
Cobalt (mg/L)	NS	<0.01					<0.01					<0.01					<0.01	<0.000				0.00061	0.001	<0.001
Copper (mg/L)	0.2	<0.01					<0.04					<0.01					<0.01	<0.003				<0.0025	<0.0025	<0.001
Mercury (mg/L)	0.0007	<0.0002					<0.0002					<0.0002					<0.0002	<0.00007				<0.00006	<0.0001	<0.15
Nickel (mg/L)	0.1	<0.01					<0.01					<0.01					<0.01	<0.001				<0.00056	<0.00029	<0.00046
Selenium (mg/L)	0.01	<0.01					<0.01					<0.01					<0.01	<0.003				<0.0025	<0.0015	<0.003
Silver (mg/L)	0.05	<0.01					<0.01					<0.01					<0.01	<0.003				<0.0028	<0.0014	<0.003
Thallium (mg/L)	0.0005 (GV)	<0.01					<0.01					<0.01					<0.02	**0.025**				**0.0458**	**0.003**	0.008
Vanadium (mg/L)	NS	0.013					0.015					0.013					0.011	0.011				<0.0049	0.0106	<0.011
Zinc (mg/L)	2	0.029					0.058					0.031					0.021	0.024				0.0035	0.0084	0.047
Part 360 Volatile Organics																								
1,1,1,2-Tetrachloroethane (µg/L)	5	<1					<1.0					<1					<1	<5.0				<5.0	<5.0	<5.0
1,1,1-Trichloroethane (µg/L)	5	<1					<1.0					<1			1		<1	<5.0				<5.0	<5.0	<5.0
1,1,2,2-Tetrachloroethane (µg/L)	5	<1					<1.0					<1					<1	<5.0				<5.0	<5.0	<5.0
1,1,2-Trichloroethane (µg/L)	1	<1					<1.0					<1					<1	<5.0				<5.0	<5.0	<5.0
1,1-Dichloroethane (µg/L)	5	<1					<1.0					<1					<1	<5.0				<5.0	<5.0	<5.0
1,1-Dichloroethene (µg/L)	5	<1					<1.0					<1					<1	<5.0				<5.0	<5.0	<5.0
1,2,3-Trichloropropane (µg/L)	0.04	<1					<1.0					<1					<1	<5.0				<5.0	<5.0	<5.0
1,2-Dibromo-3-chloropropane (µg/L)	0.04	<1					<1.0					<1					<1	<10				<10	<10	<10
1,2-Dibromoethane (EDB) (µg/L)	5	<1					<1.0					<1					<1	<5.0				<5.0	<5.0	<5.0
1,2-Dichlorobenzene (µg/L)	3	<1					<1.0					<1					<1	<5.0				<5.0	<5.0	<5.0

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

Parameter	NYSDEC Ground Water Standard	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	3/29/2011	6/18/2012	9/16/2013
1,2-Dichloroethane (µg/L)	0.6	<1					<1.0					<1					<1	<5.0				<5.0	<5.0	<5.0
1,2-Dichloropropane (µg/L)	1	<1					<1.0					<1					<1	<5.0				<5.0	<5.0	<5.0
1,4-Dichlorobenzene (µg/L)	3	<1					<1.0					<1					<1	<5.0				<5.0	<5.0	<5.0
2-Butanone (MEK) (µg/L)	50 (GV)	<5					<5.0					<10					<10	<10				<10	<10	<10
2-Hexanone (µg/L)	50 (GV)	<5					<5.0					<10					<10	<10				<10	<10	<10
4-Methyl 2-pentanone (µg/L)	NS	<5					<5.0					<10					<10	<10				<10	<10	<10
Acetone (µg/L)	50 (GV)	<5					<5.0					<10					<10	<10				<10	<10	<10
Acrylonitrile (µg/L)	5	<40					<40					<20					<1	<25				<25	<25	<25
Benzene (µg/L)	1	**8.7**					**7.5**					**6**					**5.1**	<5.0				**5.2**	**3**	<5.0
Bromochloromethane (µg/L)	5	<1					<1.0					<1					<1	<5.0				<5.0	<5.0	<5.0
Bromodichloromethane (µg/L)	50 (GV)	<1					<1.0					<1					<1	<5.0				<5.0	<5.0	<5.0
Bromoform (µg/L)	50 (GV)	<1					<1.0					<1					<1	<5.0				<5.0	<5.0	<5.0
Bromomethane (µg/L)	5	<1					<1.0					<1					<1	<10				<10	<10	<10
Carbon disulfide (µg/L)	60 (GV)	<1					<1.0					<1					<1	<5.0				<5.0	<5.0	<5.0
Carbon tetrachloride (µg/L)	5	<1					<1.0					<1					<1	<5.0				<5.0	<5.0	<5.0
Chlorobenzene (µg/L)	5	3.9					3.2					<1					<1	2.7				<5.0	2.1	<5.0
Chloroethane (µg/L)	5	<1					<1.0					<1					<1	<10				<10	<10	<10
Chloroform (µg/L)	7	<1					<1.0					<1					<1	<5.0				<5.0	<5.0	<5.0
Chloromethane (µg/L)	5	<1					<1.0					<1					<1	<10				<10	<10	<10
cis-1,2-Dichloroethene (µg/L)	5	<1					<1.0					<1					<1	<5.0				<5.0	<5.0	<5.0
cis-1,3-Dichloropropene (µg/L)	0.4**	<1					<1.0					<1					<1	<5.0				<5.0	<5.0	<5.0
Dibromochloromethane (µg/L)	50 (GV)	<1					<1.0					<1					<1	<5.0				<5.0	<5.0	<5.0
Dibromomethane (µg/L)	5	<1					<1.0					<1					<1	<5.0				<5.0	<5.0	<5.0
Ethyl benzene (µg/L)	5	<1					<1.0					<1					<1	<5.0				<5.0	<5.0	<5.0
Iodomethane (µg/L)	5	<10					<1.0					<5					<5	<10				<10	<10	<10
Methylene Chloride (µg/L)	5	<1					<1.0					<1					<1	<5.0				<5.0	<5.0	<5.0
Styrene (µg/L)	5	<1					<1.0					<1					<1	<5.0				<5.0	<5.0	<5.0
Tetrachloroethene (µg/L)	5	<1					<1.0					<1					<1	<5.0				<5.0	<5.0	<5.0
Toluene (µg/L)	5	<1					<1.0					<1					<1	<5.0				<5.0	<5.0	<5.0
trans-1,2-Dichloroethene (µg/L)	5	<1					<1.0					<1					<1	<5.0				<5.0	<5.0	<5.0
trans-1,3-Dichloropropene (µg/L)	0.4**	<1					<1.0					<1					<1	<5.0				<5.0	<5.0	<5.0
trans-1,4-Dichloro-2-butene (µg/L)	5	<10					<1.0					<5					<5	<10				<10	<10	<10
Trichloroethene (µg/L)	5	<1					<1.0					<1					<1	<5.0				<5.0	<5.0	<5.0
Trichlorofluoromethane (µg/L)	5	<1					<1.0					<1					<1	<5.0				<5.0	<5.0	<5.0
Vinyl Acetate (µg/L)	NS	<10					<1.0					<5					<5	<10				<10	<10	<10
Vinyl Chloride (µg/L)	2	<1					<1.0					<1					<1	<10				<10	<10	<10
Xylenes (Total) (µg/L)	5	**190**					**72**					**80**					**44**	<5.0				**55**	**22**	<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
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
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
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
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**
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
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
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	<0.5	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
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
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
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
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
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
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
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
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
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
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
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
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
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**
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
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
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
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
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**
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
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	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	6/19/08	9/23/08	12/15/2008	3/17/2009	6/22/2009	9/25/2009	12/14/2009
Field Parameters																					
Conductivity (µmhos/cm)	NS	308	404	404	380	390	350	391	375	387	367	354	385	394	383	361	415	388	377	378	392
pH (s.u.)	6.5 - 8.5	7.57	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
Temperature (deg C)	NS	6.6		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
Turbidity (NTU)	5	**512**	**614**	**206**	**270**	**480**	**37**	-	**70**	**385**	**80**	**43**	**45**	**25**	**83**	**26**	**80**	**203**	**12**	**15**	4
Part 360 Leachate Indicator Parameters																					
Ammonia-Nitrogen (mg/L)	2	0.24	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
Biochemical Oxygen Demand (BOD5) (mg/L)	NS	4.3	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
Boron (mg/L)	1				<0.5	<0.5					0.73					<0.5					<0.5
Bromide (mg/L)	2	<0.100	<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
Chemical Oxygen Demand (mg/L)	NS	140	65	66	78	58	79	97	65	83	77	48	48	47	52	43	57	39	39	40	36
Chloride (mg/L)	250	3.1	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
Color (Pt-Co)	15				**800**	**1,500**					**200**					**200**					**100**
Nitrate-Nitrogen (mg/L)	10	0.15	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
Sulfate (mg/L)	250	2.3	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
Total Alkalinity (mg/L)	NS	220	210	220	230	220	230	240	230	280	230	230	320	210	240	240	250	250	220	220	220
Total Cyanide (mg/L)	0.2				<0.01	<0.01					<0.01					<0.01					<0.01
Total Dissolved Solids (mg/L)	500	350	310	310	340	300	290	330	270	300	310	280	270	300	360	360	290	260	310	**2,100**	260
Total Hardness (mg/L)	NS	440	120	250	290	210	400	360	240	320	420	210	150	430	170	280	180	310	160	190	390
Total Kjeldahl Nitrogen (mg/L)	NS	0.96	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
Total Organic Carbon (mg/L)	NS	26	28	25	25	22	26	25	22	25	22	24	19	19	24	20	17	22	20	20	16
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	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
Part 360 Routine Metals																					
Cadmium (mg/L)	0.005	<0.010	<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	120	41	75	89	65	120	110	74	91	43	70	77	120	45	87	59	94	54	65	120
Iron (mg/L)	0.3*	**23**	**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**
Lead (mg/L)	0.025	<0.010	**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
Magnesium (mg/L)	35 (GV)	33	5.2	15	16	12	26	24	12	21	16	9.5	13	30	14	15	9	20	4.9	6.9	24
Manganese (mg/L)	0.3*	**1.6**	**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**
Potassium (mg/L)	NS	5.3	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
Sodium (mg/L)	20	**48**	**43**	**30**	**26**	**51**	**34**	**37**	**34**	**44**	**29**	19	**31**	**43**	**21**	**45**	**37**	**32**	**42**	**25**	**31**
Part 360 Additional Baseline Metals																					
Aluminum (mg/L)	NS				5.6	9					1.4					3.9					4.8
Antimony (mg/L)	0.003				<0.01	<0.01					<0.01					<0.01					<0.01
Arsenic (mg/L)	0.025				**0.029**	<0.01					<0.01					<0.01					<0.01
Barium (mg/L)	1				0.11	<0.2					0.23					<0.2					0.11
Beryllium (mg/L)	0.003 (GV)				<0.01	<0.01					<0.01					<0.01					<0.01
Chromium (mg/L)	0.05				0.012	0.017					0.013					<0.01					0.013
Chromium, Hexavalent (mg/L)	0.05				<0.01	<0.01					<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				0.02	0.033					0.019					0.018					0.074
Mercury (mg/L)	0.0007				<0.0002	<0.0002					<0.0002					<0.0002					<0.0002
Nickel (mg/L)	0.1				0.012	0.02					0.01					<0.01					0.02
Selenium (mg/L)	0.01				<0.01	<0.01					<0.01					<0.01					<0.01
Silver (mg/L)	0.05				<0.01	<0.01					**0.05**					<0.01					<0.01
Thallium (mg/L)	0.0005 (GV)				<0.01	<0.01					<0.01					<0.01					<0.02
Vanadium (mg/L)	NS				0.012	0.017					0.012					0.011					0.012
Zinc (mg/L)	2				0.039	0.045					0.035					0.036					0.051
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
1,2-Dichloroethane (µg/L)	0.6				<1	<1					<1.0					<1					<1

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Parameter	NYSDEC Ground Water Standard	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	6/19/08	9/23/08	12/15/2008	3/17/2009	6/22/2009	9/25/2009	12/14/2009
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

City of Rome
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Ground Water Analytical Data

Parameter	NYSDEC Ground Water Standard	3/24/2010	6/23/2010	9/22/2010	12/21/2010	3/29/2011	6/18/2012	9/16/2013
Field Parameters								
Conductivity (µmhos/cm)	NS	397	389	372	371	433	393	370
pH (s.u.)	6.5 - 8.5	7.08	7.38	7.18	**6.12**	**6.39**	6.74	**5.5**
Temperature (deg C)	NS	6.5	11.2	13.1	7.5	5	11.1	14
Turbidity (NTU)	5	**30**	0	**148**	**253**	**141**	**9**	**40**
Part 360 Leachate Indicator Parameters								
Ammonia-Nitrogen (mg/L)	2	1.44	<0.1	0.2	<0.1	<0.1	0.2	0.2
Biochemical Oxygen Demand (BOD5) (mg/L)	NS	<2.0	2	<4.0	<4.0	<4.0	3	3.9
Boron (mg/L)	1	0.012				0.0046	<0.00057	0.003
Bromide (mg/L)	2	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Chemical Oxygen Demand (mg/L)	NS	49.7	38	59	34	58	38	61
Chloride (mg/L)	250	1.2	1.05	<1.0	1.72	1.04	<1.0	<1.0
Color (Pt-Co)	15	**70**				**>70**	**70**	**>70**
Nitrate-Nitrogen (mg/L)	10	0.26	<0.020	<0.020	<0.02	<0.020	<0.02	0.05
Sulfate (mg/L)	250	14.3	5.18	<2.0	3.18	6.18	2.57	14.2
Total Alkalinity (mg/L)	NS	235	225	220	235	230	217	230
Total Cyanide (mg/L)	0.2	<0.010				<0.01	<0.01	<0.010
Total Dissolved Solids (mg/L)	500	305	280	307	332	312	350	275
Total Hardness (mg/L)	NS	139	340	496	447	290	702	160
Total Kjeldahl Nitrogen (mg/L)	NS	<1.0	6.7	1.1	<1.0	2.8	1.1	<1.0
Total Organic Carbon (mg/L)	NS	18.7	18.7	19.5	18.6	19.2	20.4	23.9
Total Phenols (mg/L)	0.001	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Part 360 Routine Metals								
Cadmium (mg/L)	0.005	0.00023	<0.005	<0.005	<0.005	0.00021	0.00041	0.00027
Calcium (mg/L)	NS	48.3	100	137	126	94.9	184	54.3
Iron (mg/L)	0.3*	**0.364**	**18.8**	**36.3**	**31**	**2.72**	**58.6**	**5.29**
Lead (mg/L)	0.025	<0.002	<0.005	<0.005	0.007	0.0029	0.0022	<0.002
Magnesium (mg/L)	35 (GV)	4.49	21.7	**37.3**	32.3	13	**58.9**	5.92
Manganese (mg/L)	0.3*	**0.466**	**1.34**	**1.97**	**1.66**	**0.955**	**2.57**	**0.601**
Potassium (mg/L)	NS	2.13	4.31	5	4.91	1.68	6.71	2.86
Sodium (mg/L)	20	**32.3**	**29**	**20.8**	**27.9**	**21.4**	**24.7**	**34.9**
Part 360 Additional Baseline Metals								
Aluminum (mg/L)	NS	0.132				0.392	31.2	0.305
Antimony (mg/L)	0.003	<0.020				<0.0196	<0.0011	<0.002
Arsenic (mg/L)	0.025	<0.002				0.0035	<0.0022	0.003
Barium (mg/L)	1	0.067				0.102	0.233	0.094
Beryllium (mg/L)	0.003 (GV)	<0.00014				0.00023	0.0012	<0.0001
Chromium (mg/L)	0.05	<0.005				<0.0047	0.0602	0.005
Chromium, Hexavalent (mg/L)	0.05	<0.020				<0.020	<0.02	<0.020
Cobalt (mg/L)	NS	<0.000				0.001	0.0242	<0.001
Copper (mg/L)	0.2	0.018				0.0103	0.157	<0.001
Mercury (mg/L)	0.0007	<0.00007				<0.00006	<0.0001	<0.15
Nickel (mg/L)	0.1	0.007				0.0039	0.0663	0.0046
Selenium (mg/L)	0.01	<0.003				<0.0025	<0.0015	<0.003
Silver (mg/L)	0.05	<0.003				<0.0028	<0.0014	<0.003
Thallium (mg/L)	0.0005 (GV)	**0.021**				**0.032**	**0.0028**	<0.003
Vanadium (mg/L)	NS	0.005				<0.0049	0.0534	<0.011
Zinc (mg/L)	2	0.007				0.0113	0.156	0.01
Part 360 Volatile Organics								
1,1,1,2-Tetrachloroethane (µg/L)	5	<5.0				<5.0	<5.0	<5.0
1,1,1-Trichloroethane (µg/L)	5	<5.0				<5.0	<5.0	<5.0
1,1,2,2-Tetrachloroethane (µg/L)	5	<5.0				<5.0	<5.0	<5.0
1,1,2-Trichloroethane (µg/L)	1	<5.0				<5.0	<5.0	<5.0
1,1-Dichloroethane (µg/L)	5	<5.0				<5.0	<5.0	<5.0
1,1-Dichloroethene (µg/L)	5	<5.0				<5.0	<5.0	<5.0
1,2,3-Trichloropropane (µg/L)	0.04	<5.0				<5.0	<5.0	<5.0
1,2-Dibromo-3-chloropropane (µg/L)	0.04	<10				<10	<10	<10
1,2-Dibromoethane (EDB) (µg/L)	5	<5.0				<5.0	<5.0	<5.0
1,2-Dichlorobenzene (µg/L)	3	<5.0				<5.0	<5.0	<5.0
1,2-Dichloroethane (µg/L)	0.6	<5.0				<5.0	<5.0	<5.0

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Parameter	NYSDEC Ground Water Standard	3/24/2010	6/23/2010	9/22/2010	12/21/2010	3/29/2011	6/18/2012	9/16/2013
1,2-Dichloropropane (µg/L)	1	<5.0				<5.0	<5.0	<5.0
1,4-Dichlorobenzene (µg/L)	3	<5.0				<5.0	<5.0	<5.0
2-Butanone (MEK) (µg/L)	50 (GV)	<10				<10	<10	<10
2-Hexanone (µg/L)	50 (GV)	<10				<10	<10	<10
4-Methyl 2-pentanone (µg/L)	NS	<10				<10	<10	<10
Acetone (µg/L)	50 (GV)	<10				<10	<10	<10
Acrylonitrile (µg/L)	5	<25				<25	<25	<25
Benzene (µg/L)	1	<5.0				<5.0	<5.0	<5.0
Bromochloromethane (µg/L)	5	<5.0				<5.0	<5.0	<5.0
Bromodichloromethane (µg/L)	50 (GV)	<5.0				<5.0	<5.0	<5.0
Bromoform (µg/L)	50 (GV)	<5.0				<5.0	<5.0	<5.0
Bromomethane (µg/L)	5	<10				<10	<10	<10
Carbon disulfide (µg/L)	60 (GV)	<5.0				<5.0	<5.0	<5.0
Carbon tetrachloride (µg/L)	5	<5.0				<5.0	<5.0	<5.0
Chlorobenzene (µg/L)	5	<5.0				<5.0	<5.0	<5.0
Chloroethane (µg/L)	5	<10				<10	<10	<10
Chloroform (µg/L)	7	<5.0				<5.0	<5.0	<5.0
Chloromethane (µg/L)	5	<10				<10	<10	<10
cis-1,2-Dichloroethene (µg/L)	5	<5.0				<5.0	<5.0	<5.0
cis-1,3-Dichloropropene (µg/L)	0.4**	<5.0				<5.0	<5.0	<5.0
Dibromochloromethane (µg/L)	50 (GV)	<5.0				<5.0	<5.0	<5.0
Dibromomethane (µg/L)	5	<5.0				<5.0	<5.0	<5.0
Ethyl benzene (µg/L)	5	<5.0				<5.0	<5.0	<5.0
Iodomethane (µg/L)	5	<10				<10	<10	<10
Methylene Chloride (µg/L)	5	<5.0				<5.0	<5.0	<5.0
Styrene (µg/L)	5	<5.0				<5.0	<5.0	<5.0
Tetrachloroethene (µg/L)	5	<5.0				<5.0	<5.0	<5.0
Toluene (µg/L)	5	<5.0				<5.0	<5.0	<5.0
trans-1,2-Dichloroethene (µg/L)	5	<5.0				<5.0	<5.0	<5.0
trans-1,3-Dichloropropene (µg/L)	0.4**	<5.0				<5.0	<5.0	<5.0
trans-1,4-Dichloro-2-butene (µg/L)	5	<10				<10	<10	<10
Trichloroethene (µg/L)	5	<5.0				<5.0	<5.0	<5.0
Trichlorofluoromethane (µg/L)	5	<5.0				<5.0	<5.0	<5.0
Vinyl Acetate (µg/L)	NS	<10				<10	<10	<10
Vinyl Chloride (µg/L)	2	<10				<10	<10	<10
Xylenes (Total) (µg/L)	5	<5.0				<5.0	<5.0	<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
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	3/29/2011	6/18/2012	9/16/2013
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	3,100	2,770	1,700
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	**6.23**	**6.35**	6.5
Temperature (deg C)	NS	14.9	15.3	13	13.9	14	14.5	11.8	11.5	15.5	14.3	10.4	12.3	15	14
Turbidity (NTU)	5	**51**	0	**27**	**35**	**35**	**180**	**10**	**16**	**57**	**96**	**10**	**39**	0	**40**
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**	**167**	**150**	**86.4**
Biochemical Oxygen Demand (BOD5) (mg/L)	NS	32	52	36	46	12	40	20	22	29	>175	35	38	36	35
Boron (mg/L)	1		**2.8**					<0.5	**1.03**				**1.28**	**1.16**	0.754
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	<1.0	<1.0	<1.0
Chemical Oxygen Demand (mg/L)	NS	590	140	490	430	56	430	64	635	507	613	258	247	221	127
Chloride (mg/L)	250	**540**	**610**	**540**	**580**	34	**520**	83	**250**	**508**	**516**	188	195	231	99.2
Color (Pt-Co)	15		**400**					**25**	**70**				**>70**	**>70**	**30**
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	0.15	<0.02	0.26
Sulfate (mg/L)	250	1.9	2	<1	2	<1	2.7	<1.0	<1.0	<2.0	<2.0	<2.0	<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	1210	1,240	22
Total Cyanide (mg/L)	0.2		0.01					<0.01	<0.010				<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**	**1,090**	**1,180**	**1,200**
Total Hardness (mg/L)	NS	590	570	610	630	240	750	340	358	730	724	379	393	467	954
Total Kjeldahl Nitrogen (mg/L)	NS	310	270	260	260	53	260	54	25.2	260	231	171	169	123	83.7
Total Organic Carbon (mg/L)	NS	230	210	200	200	23	120	37	220	194	183	66.6	64	88.2	37.1
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**	**0.018**	**0.005**	**0.009**
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	0.00015	<0.00021	<0.00015
Calcium (mg/L)	NS	120	120	100	120	70	130	100	85.3	122	125	69.2	83.2	112	161
Iron (mg/L)	0.3*	**55**	**40**	**32**	**38**	**41**	**43**	**47**	**33.9**	**26.9**	**35.6**	**30.2**	**21.2**	**41.8**	**65.8**
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	0.0046	0.0063	0.003
Magnesium (mg/L)	35 (GV)	**69**	**78**	**87**	**79**	16	**100**	22	**35.2**	**103**	**100**	**35**	**45**	**45.5**	**35.9**
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**	**0.743**	**1.03**	**0.911**
Potassium (mg/L)	NS	220	270	250	330	28	390	39	101	368	222	99.2	127	125	134
Sodium (mg/L)	20	**330**	**340**	**350**	**450**	**31**	**670**	**55**	**112**	**371**	**346**	**124**	**146**	**116**	**130**
Part 360 Additional Baseline Metals															
Aluminum (mg/L)	NS		0.91					0.34	0.106				0.0346	0.165	0.032
Antimony (mg/L)	0.003		<0.01					<0.01	<0.020				<0.0196	<0.0011	<0.002
Arsenic (mg/L)	0.025		<0.01					<0.01	<0.002				<0.0015	<0.0022	<0.002
Barium (mg/L)	1		0.51					0.17	0.302				0.0904	0.151	0.174
Beryllium (mg/L)	0.003 (GV)		<0.01					<0.01	<0.00014				<0.00014	<0.00016	<0.0001
Chromium (mg/L)	0.05		<0.01					<0.01	<0.005				0.0081	<0.0051	0.006
Chromium, Hexavalent (mg/L)	0.05		0.016					<0.01	<0.020				<0.020	<0.02	<0.020
Cobalt (mg/L)	NS		0.013					<0.01	0.005				0.0059	0.0058	0.003
Copper (mg/L)	0.2		<0.01					0.011	<0.003				0.0042	<0.0025	<0.001
Mercury (mg/L)	0.0007		<0.0002					<0.0002	<0.00007				<0.00006	<0.0001	<0.15
Nickel (mg/L)	0.1		0.042					0.019	0.016				0.0177	0.0137	0.00079
Selenium (mg/L)	0.01		<0.01					<0.01	<0.003				<0.0025	<0.0015	<0.003
Silver (mg/L)	0.05		<0.01					<0.01	<0.003				<0.0028	<0.0014	<0.003
Thallium (mg/L)	0.0005 (GV)		<0.01					<0.02	**0.038**				**0.0219**	<0.0018	0.008
Vanadium (mg/L)	NS		0.023					<0.01	<0.005				<0.0049	0.006	<0.011
Zinc (mg/L)	2		0.072					0.026	0.005				0.0082	0.0068	0.006
Part 360 Volatile Organics															
1,1,1,2-Tetrachloroethane (µg/L)	5		<1					<1	<5.0				<5.0	<5.0	<5.0
1,1,1-Trichloroethane (µg/L)	5		<1					<1	<5.0				<5.0	<5.0	<5.0
1,1,2,2-Tetrachloroethane (µg/L)	5		<1					<1	<5.0				<5.0	<5.0	<5.0
1,1,2-Trichloroethane (µg/L)	1		<1					<1	<5.0				<5.0	<5.0	<5.0
1,1-Dichloroethane (µg/L)	5		<1					<1	<5.0				<5.0	<5.0	<5.0
1,1-Dichloroethene (µg/L)	5		<1					<1	<5.0				<5.0	<5.0	<5.0
1,2,3-Trichloropropane (µg/L)	0.04		<1					<1	<5.0				<5.0	<5.0	<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	3/29/2011	6/18/2012	9/16/2013
1,2-Dibromo-3-chloropropane (µg/L)	0.04		<1					<1	<10				<10	<10	<10
1,2-Dibromoethane (EDB) (µg/L)	5		<1					<1	<5.0				<5.0	<5.0	<5.0
1,2-Dichlorobenzene (µg/L)	3		<1					<1	<5.0				<5.0	<5.0	<5.0
1,2-Dichloroethane (µg/L)	0.6		<1					<1	<5.0				<5.0	<5.0	<5.0
1,2-Dichloropropane (µg/L)	1		<1					<1	<5.0				<5.0	<5.0	<5.0
1,4-Dichlorobenzene (µg/L)	3		1.4					**6.6**	<5.0				<5.0	**3.1**	**6.9**
2-Butanone (MEK) (µg/L)	50 (GV)		<10					<10	<10				<10	<10	<10
2-Hexanone (µg/L)	50 (GV)		<10					<10	<10				<10	<10	<10
4-Methyl 2-pentanone (µg/L)	NS		<10					<10	<10				<10	<10	<10
Acetone (µg/L)	50 (GV)		16					16	11				8.6 J	<10	<10
Acrylonitrile (µg/L)	5		<20					<20	<25				<25	<25	<25
Benzene (µg/L)	1		**5.9**					**6.3**	**5.6**				**8**	**4.4**	**7.7**
Bromochloromethane (µg/L)	5		<1					<1	<5.0				<5.0	<5.0	<5.0
Bromodichloromethane (µg/L)	50 (GV)		<1					<1	<5.0				<5.0	<5.0	<5.0
Bromoform (µg/L)	50 (GV)		<1					<1	<5.0				<5.0	<5.0	<5.0
Bromomethane (µg/L)	5		<1					<1	<10				<10	<10	<10
Carbon disulfide (µg/L)	60 (GV)		<1					<1	<5.0				<5.0	<5.0	<5.0
Carbon tetrachloride (µg/L)	5		<1					<1	<5.0				<5.0	<5.0	<5.0
Chlorobenzene (µg/L)	5		1.3					**9.7**	<5.0				**9.3**	**5.2**	**10**
Chloroethane (µg/L)	5		**7.3**					**21**	**15**				**42**	**8.8**	**14**
Chloroform (µg/L)	7		<1					<1	<5.0				<5.0	<5.0	<5.0
Chloromethane (µg/L)	5		<1					<1	<10				<10	<10	<10
cis-1,2-Dichloroethene (µg/L)	5		<1					<1	<5.0				<5.0	<5.0	<5.0
cis-1,3-Dichloropropene (µg/L)	0.4**		<1					<1	<5.0				<5.0	<5.0	<5.0
Dibromochloromethane (µg/L)	50 (GV)		<1					<1	<5.0				<5.0	<5.0	<5.0
Dibromomethane (µg/L)	5		<1					<1	<5.0				<5.0	<5.0	<5.0
Ethyl benzene (µg/L)	5		<1					1.3	<5.0				<5.0	<5.0	<5.0
Iodomethane (µg/L)	5		<5					<5	<10				<10	<10	<10
Methylene Chloride (µg/L)	5		<1					<1	<5.0				<5.0	<5.0	<5.0
Styrene (µg/L)	5		<1					<1	<5.0				<5.0	<5.0	<5.0
Tetrachloroethene (µg/L)	5		<1					<1	<5.0				<5.0	<5.0	<5.0
Toluene (µg/L)	5		<1					<1	<5.0				<5.0	<5.0	<5.0
trans-1,2-Dichloroethene (µg/L)	5		<1					<1	<5.0				<5.0	<5.0	<5.0
trans-1,3-Dichloropropene (µg/L)	0.4**		<1					<1	<5.0				<5.0	<5.0	<5.0
trans-1,4-Dichloro-2-butene (µg/L)	5		<5					<5	<10				<10	<10	<10
Trichloroethene (µg/L)	5		<1					<1	<5.0				<5.0	<5.0	<5.0
Trichlorofluoromethane (µg/L)	5		<1					<1	<5.0				<5.0	<5.0	<5.0
Vinyl Acetate (µg/L)	NS		<5					<5	<10				<10	<10	<10
Vinyl Chloride (µg/L)	2		<1					<1	<10				<10	<10	<10
Xylenes (Total) (µg/L)	5		4.2					**85**	**15**				**72.6**	**6.2**	**5.1**
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
7) J indicates estimated concentration based on QC data

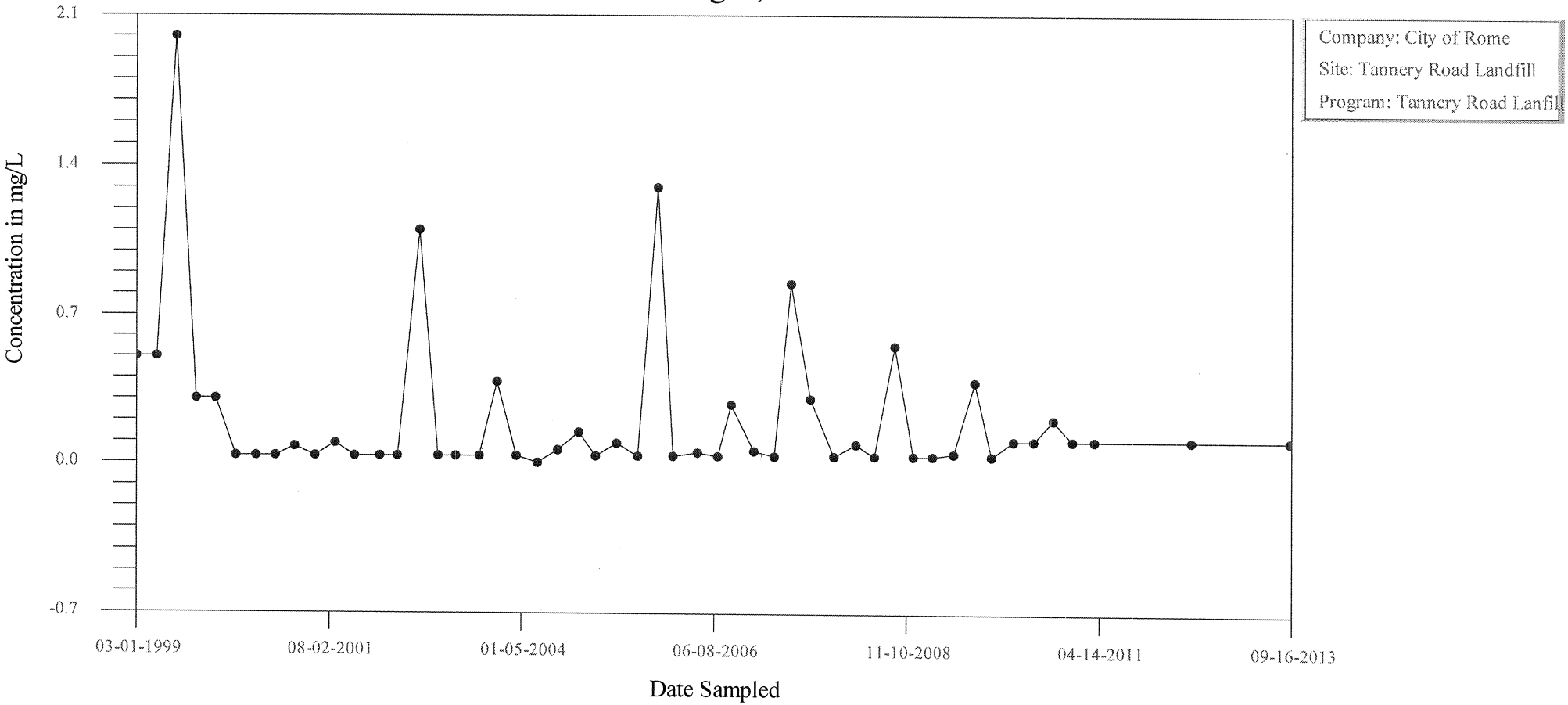
APPENDIX B

MONITORING WELL AND LEACHATE WELL

TIME SERIES CONCENTRATION GRAPHS

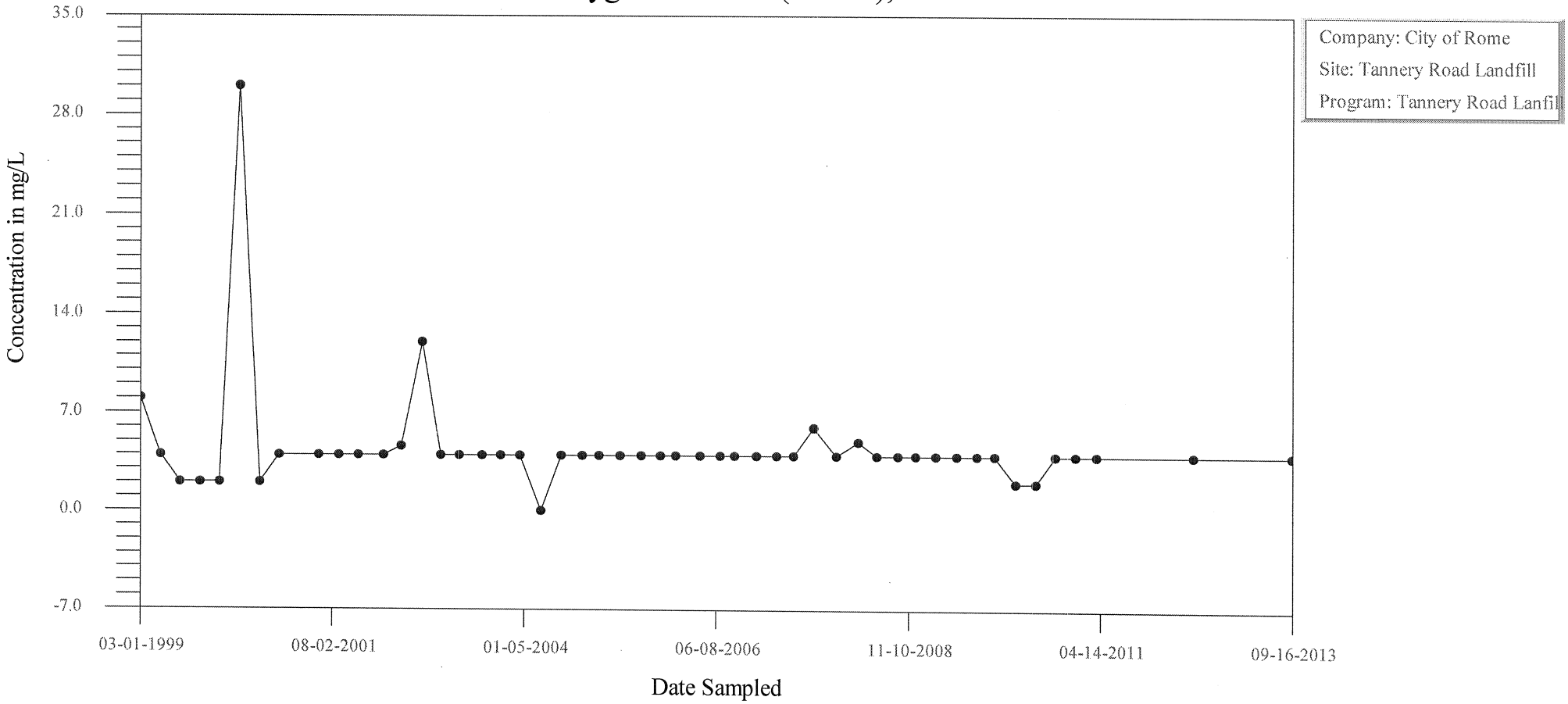
Time-Series Plot

Ammonia-Nitrogen, MW-1S



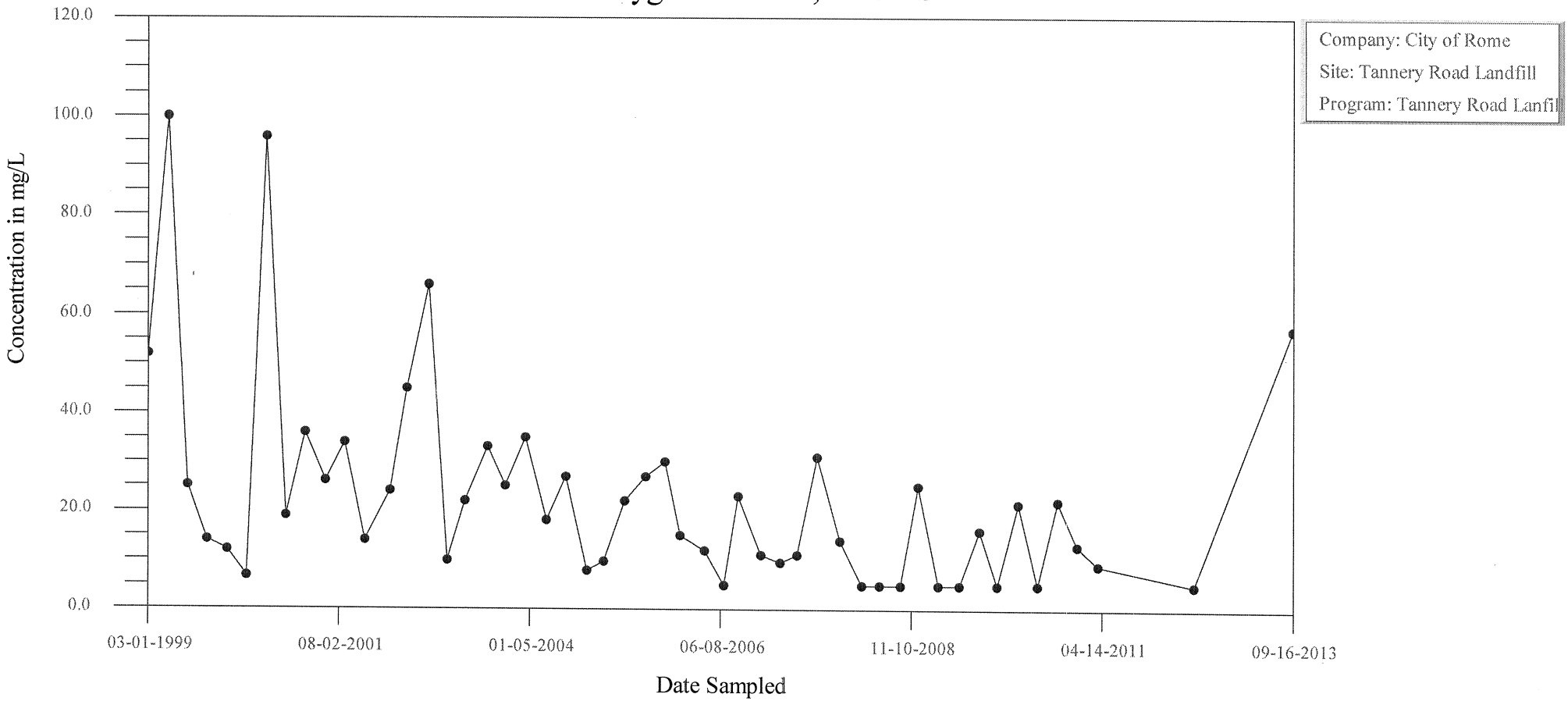
Time-Series Plot

Biochemical Oxygen Demand (BOD5), MW-1S



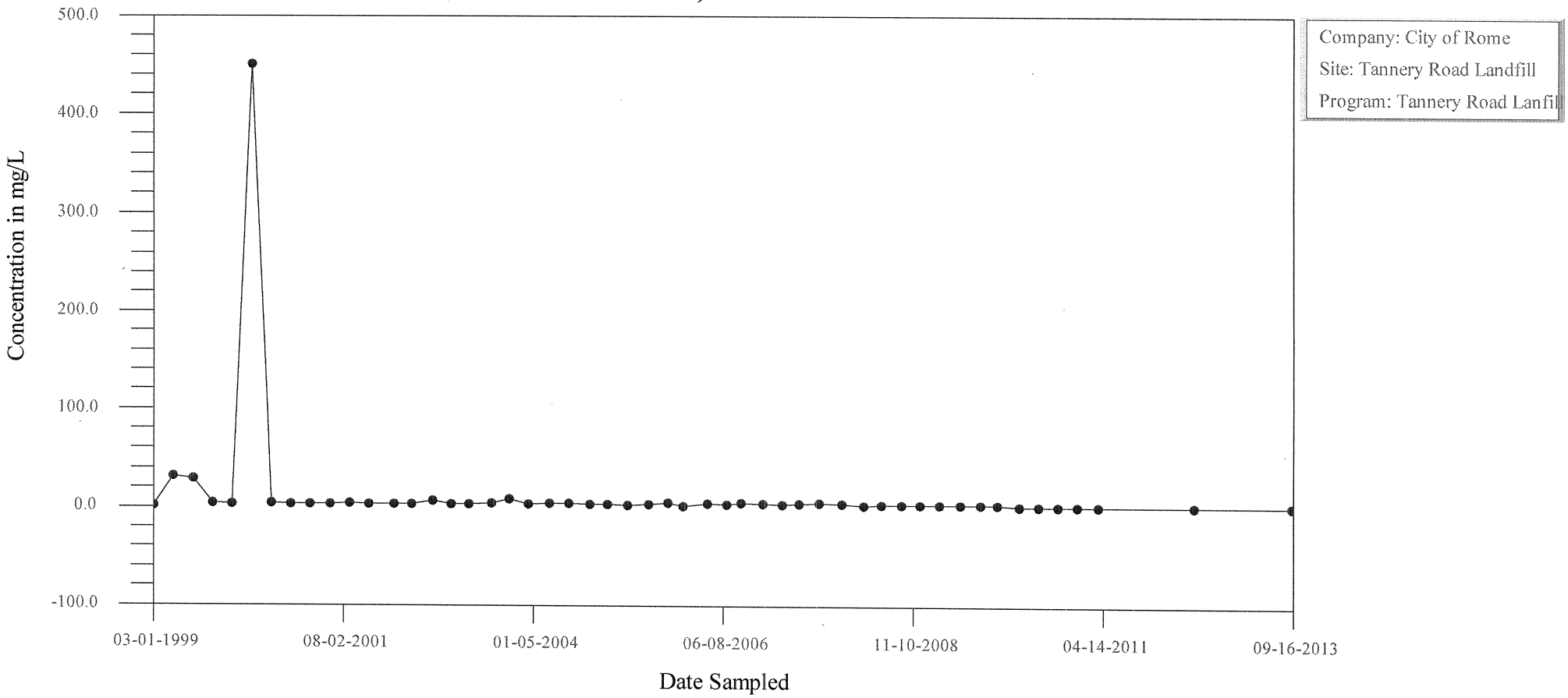
Time-Series Plot

Chemical Oxygen Demand, MW-1S



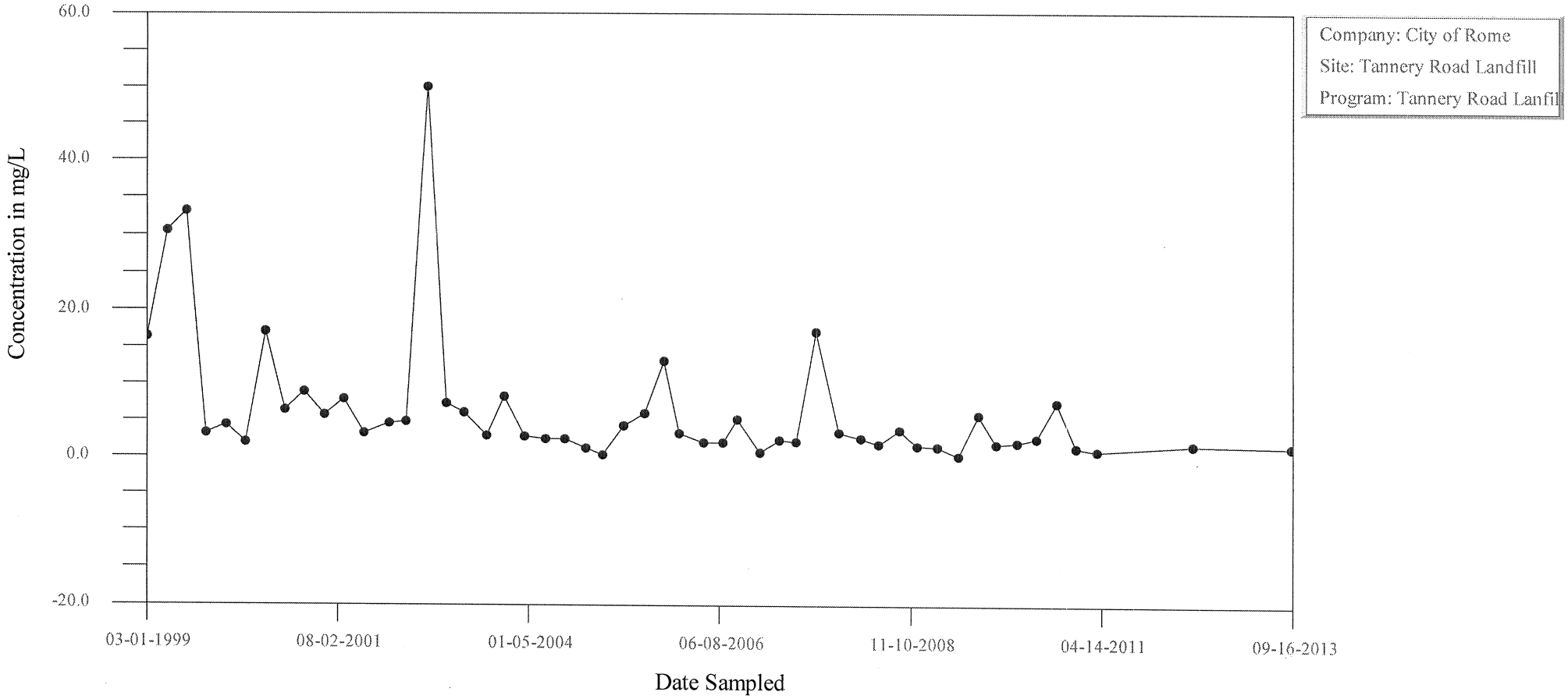
Time-Series Plot

Chloride, MW-1S



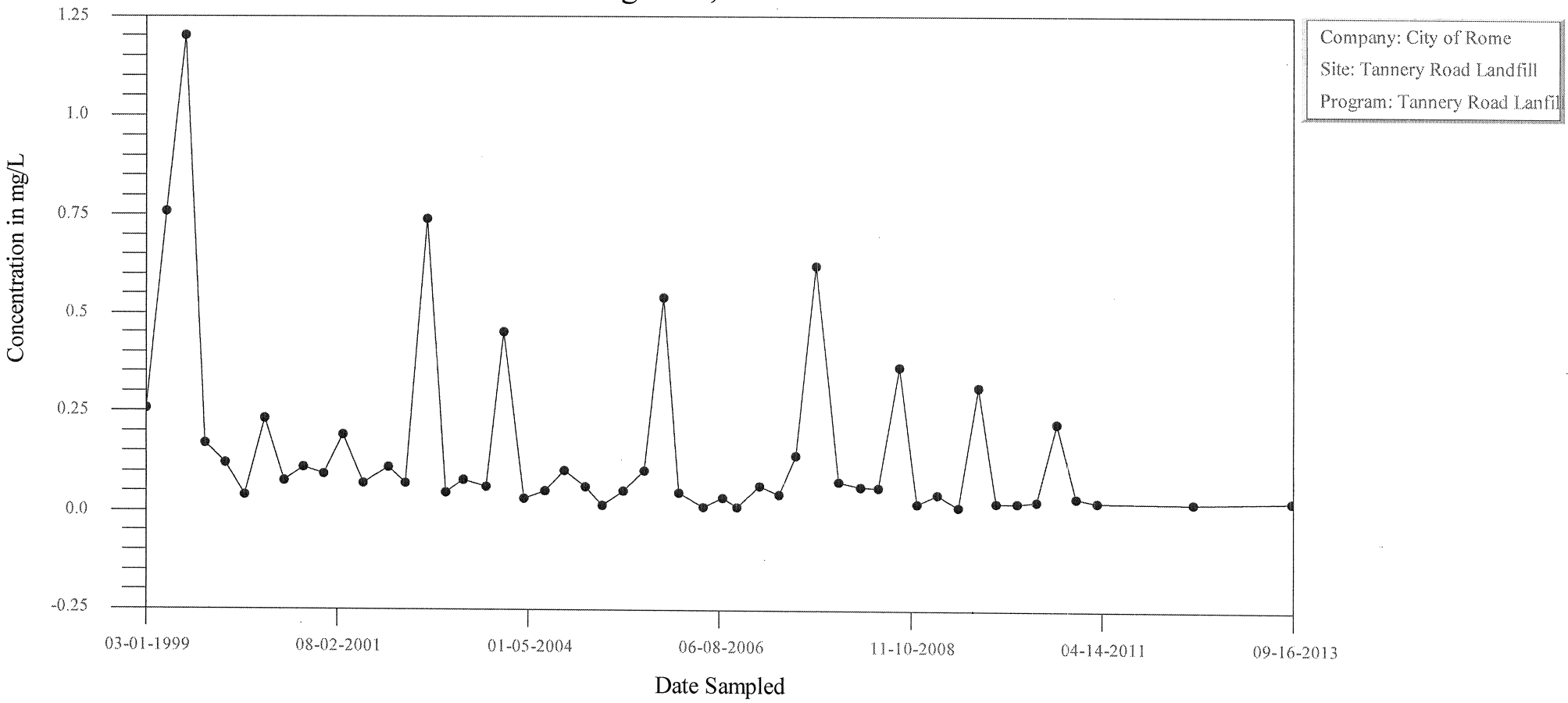
Time-Series Plot

Iron, MW-1S



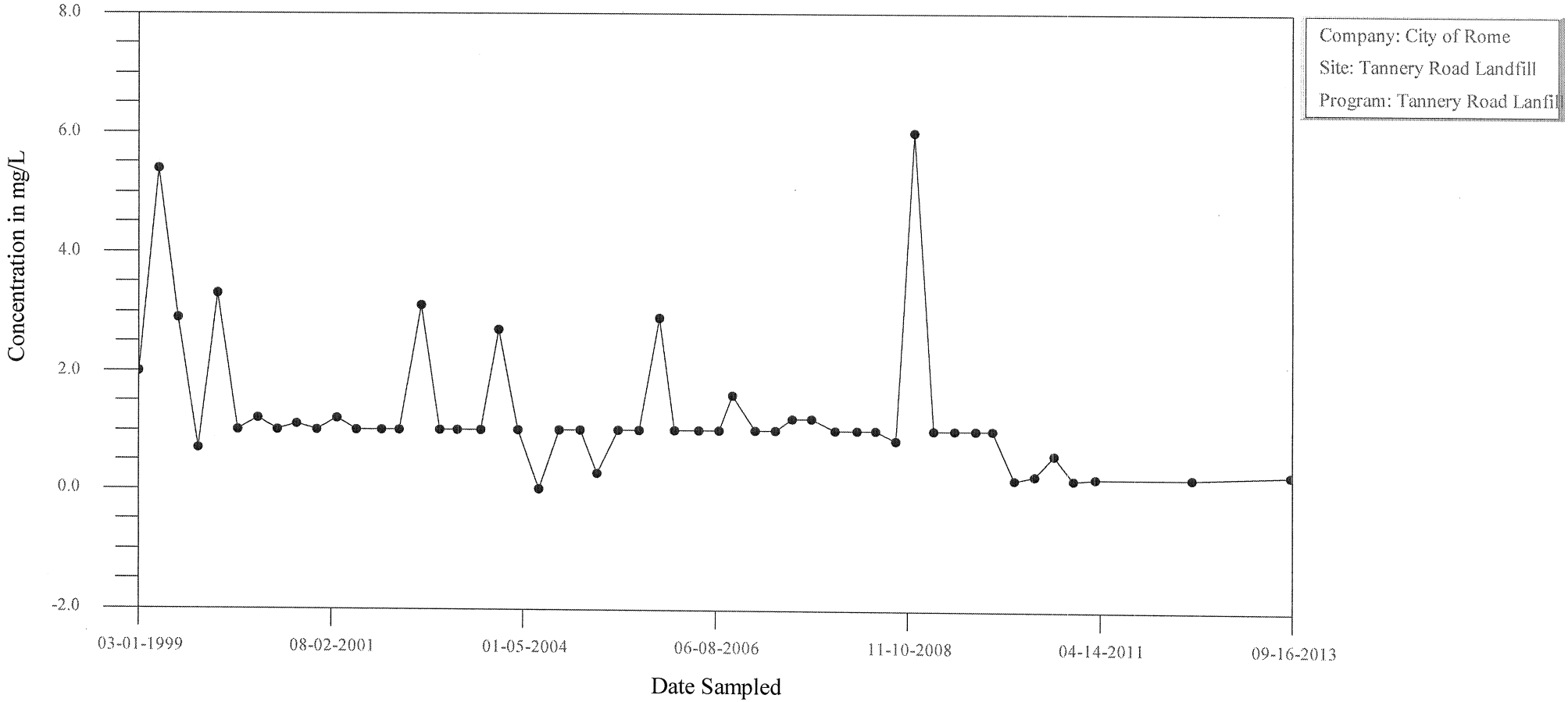
Time-Series Plot

Manganese, MW-1S



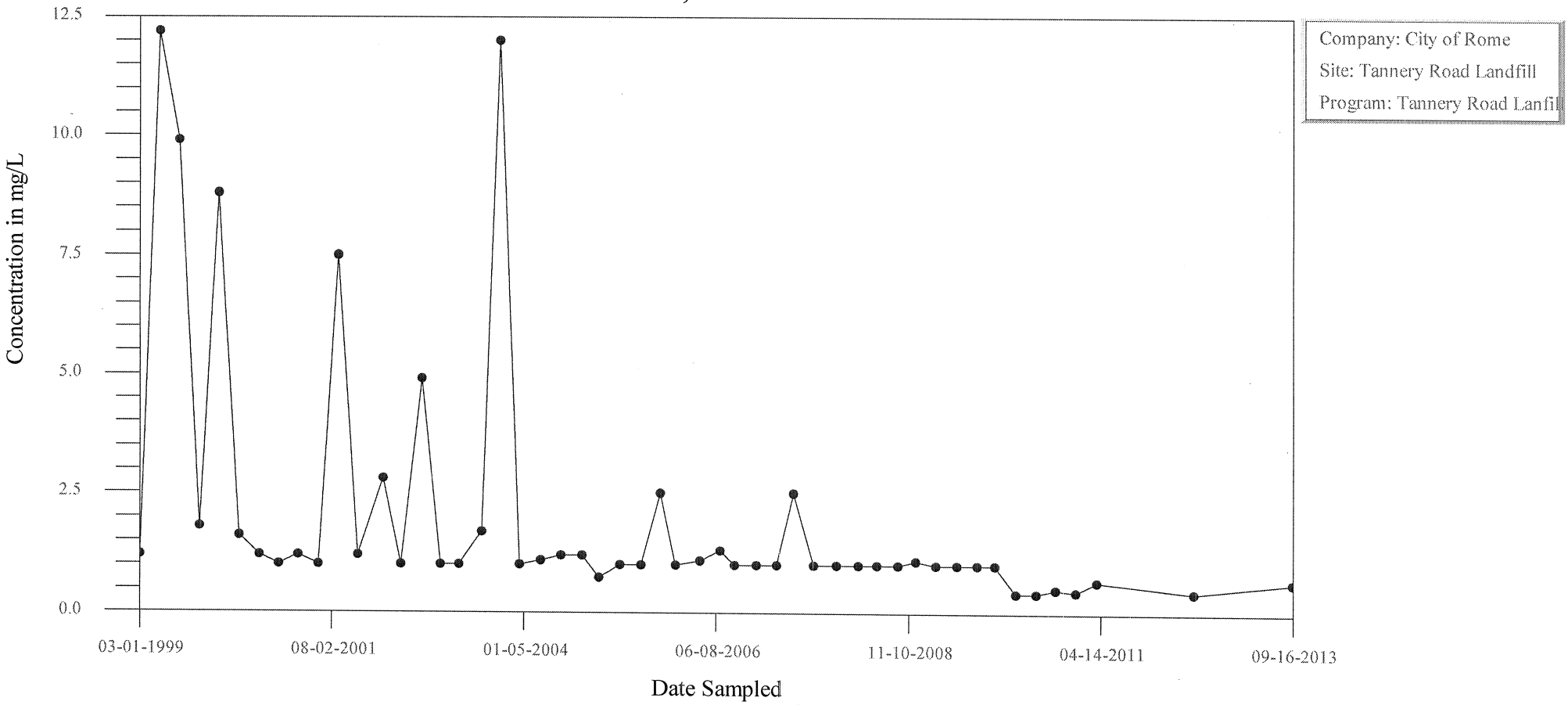
Time-Series Plot

Potassium, MW-1S



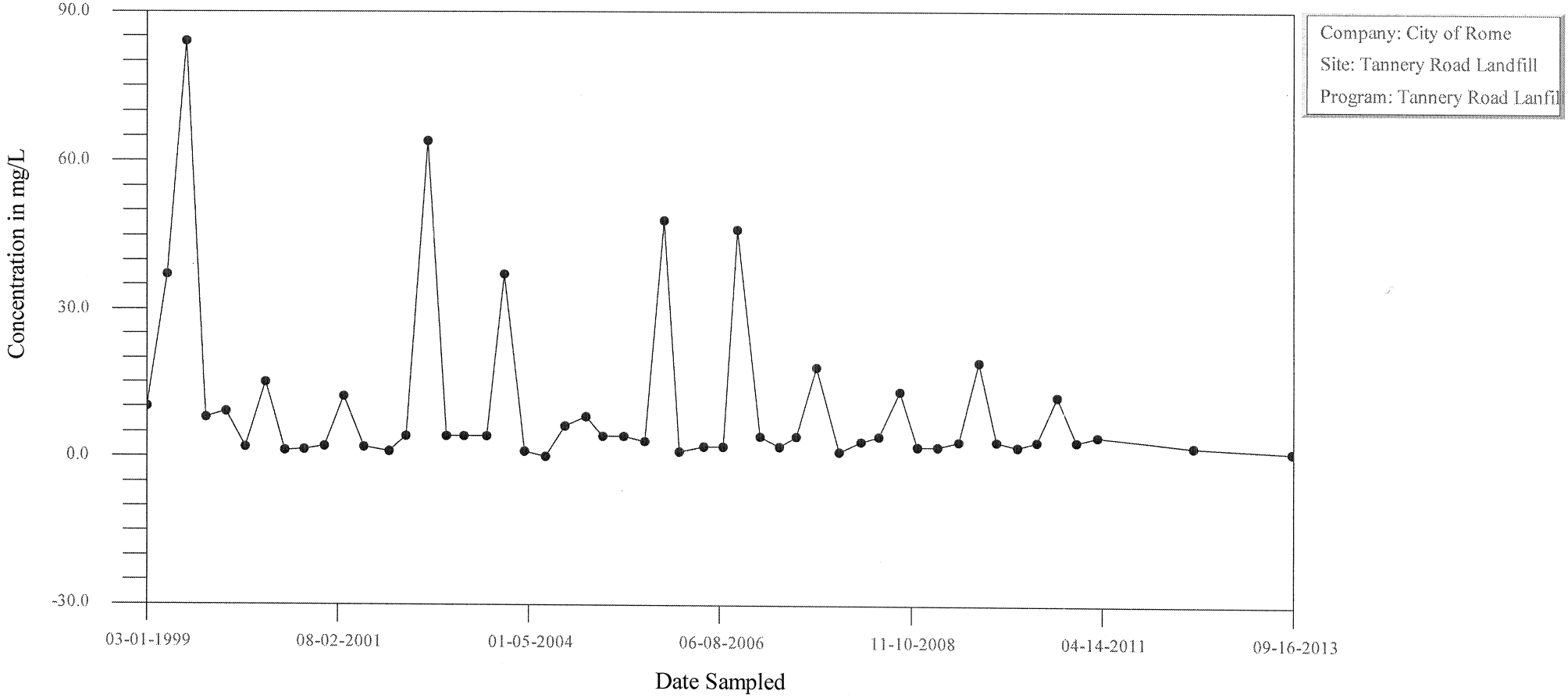
Time-Series Plot

Sodium, MW-1S



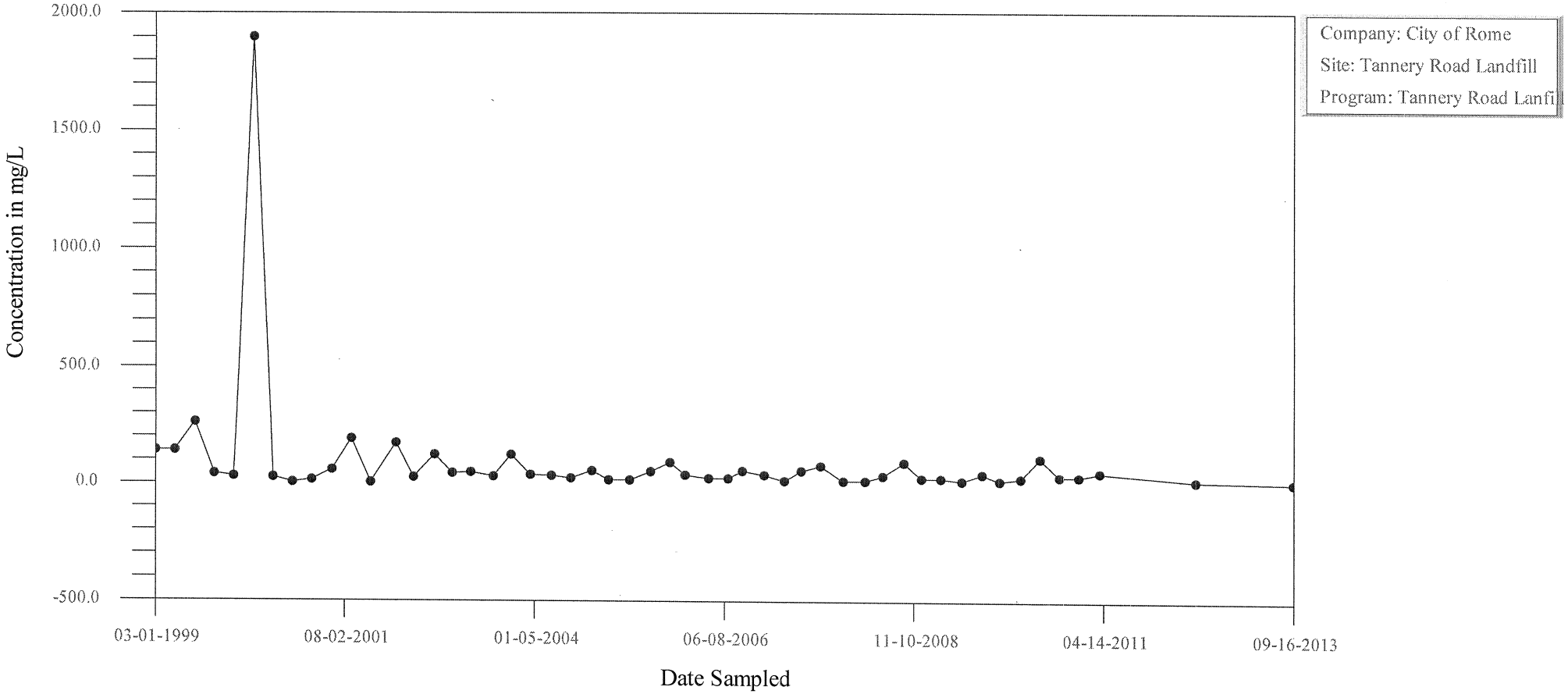
Time-Series Plot

Total Alkalinity, MW-1S



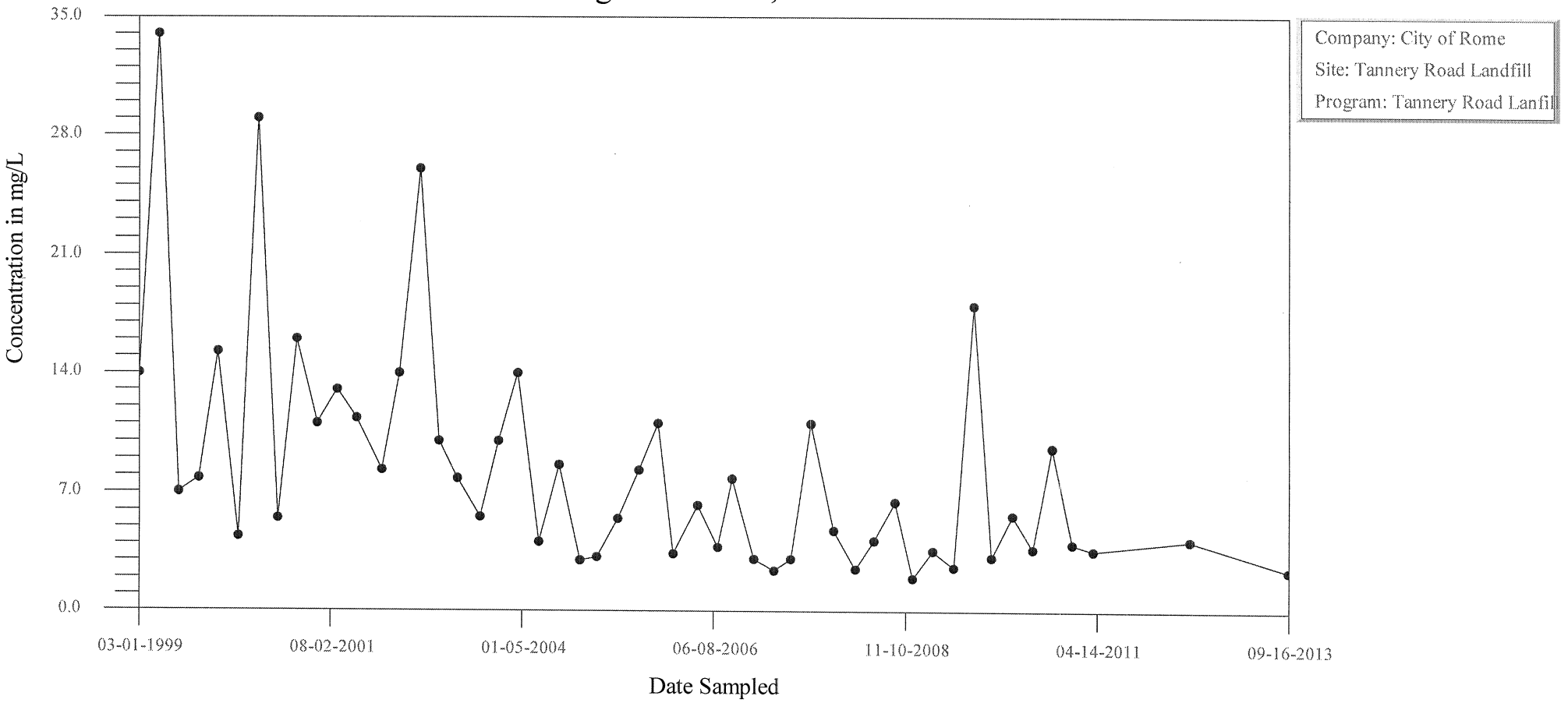
Time-Series Plot

Total Dissolved Solids, MW-1S



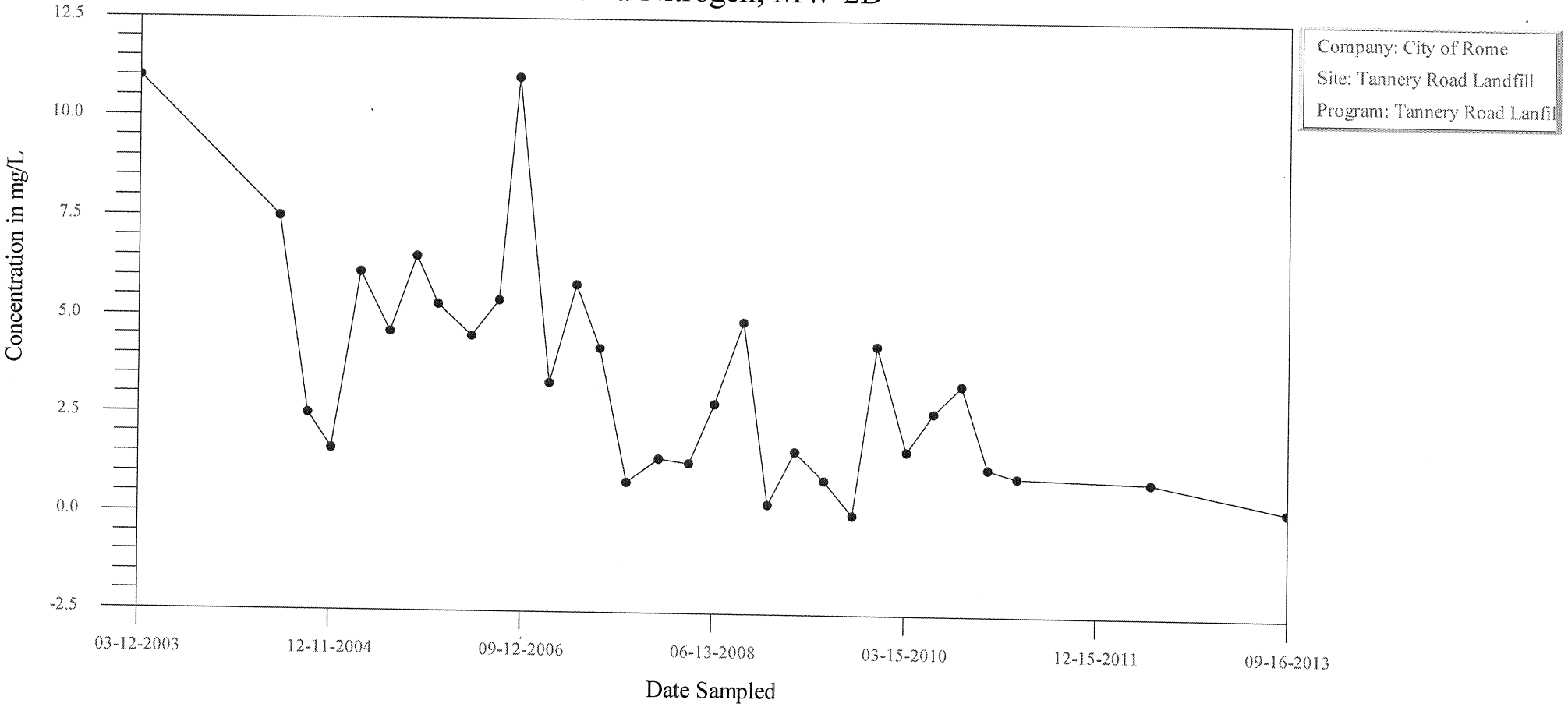
Time-Series Plot

Total Organic Carbon, MW-1S



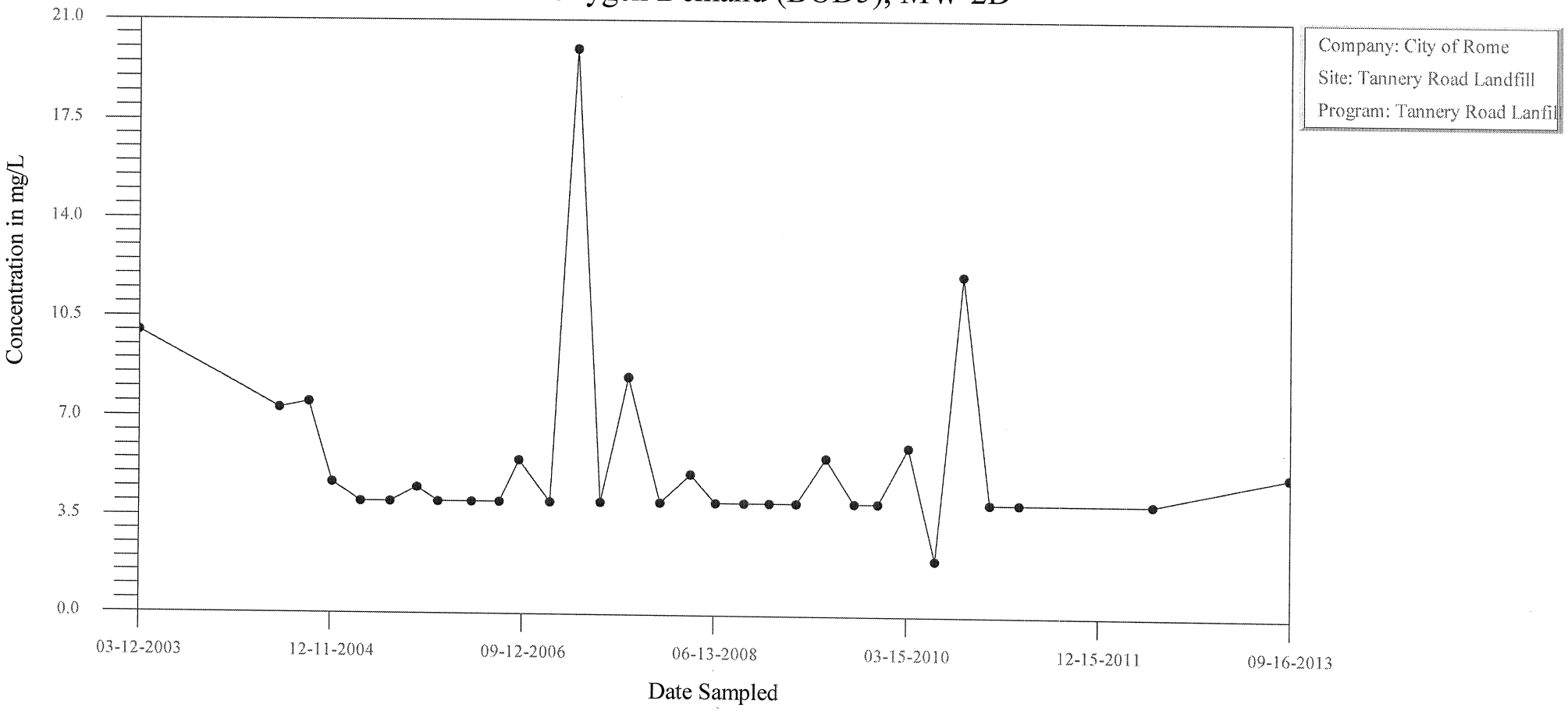
Time-Series Plot

Ammonia-Nitrogen, MW-2D



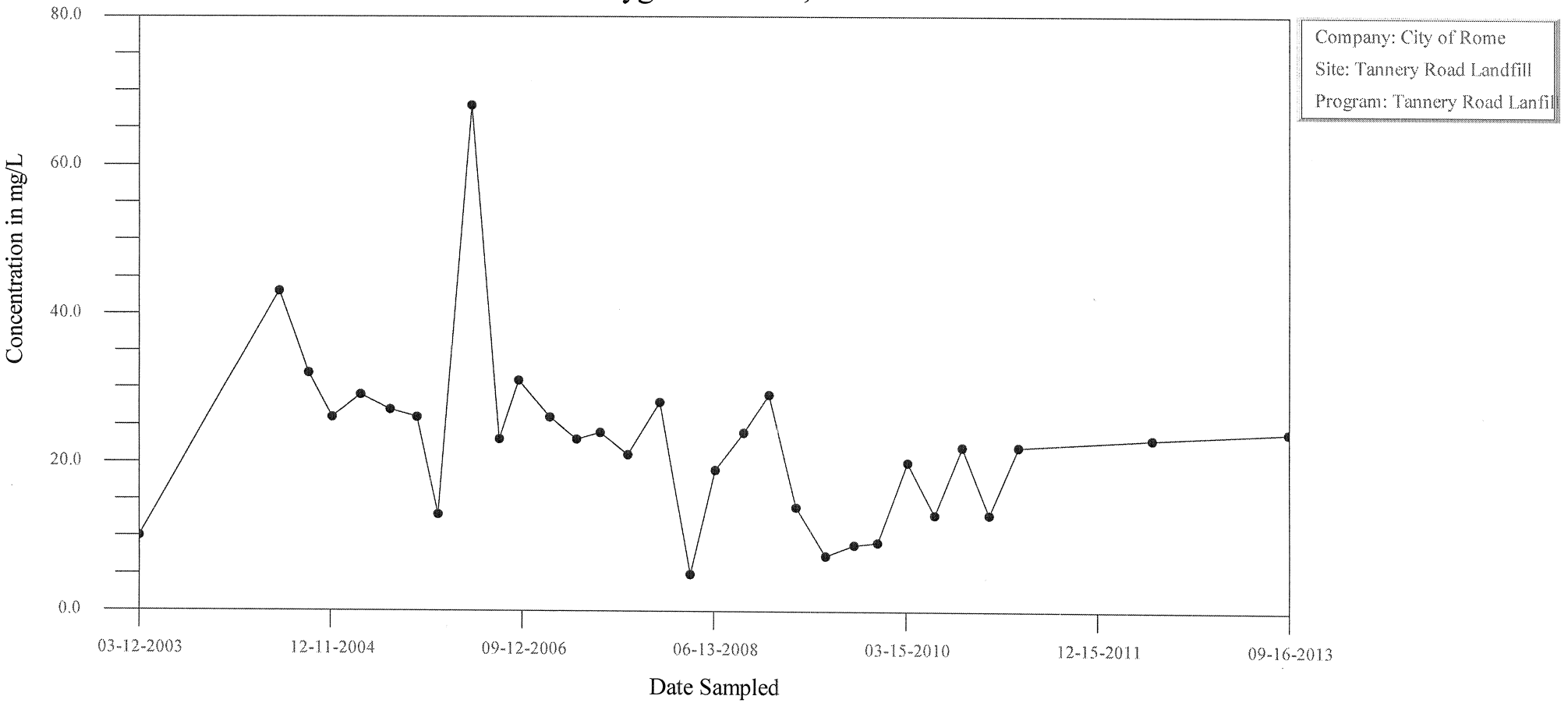
Time-Series Plot

Biochemical Oxygen Demand (BOD5), MW-2D



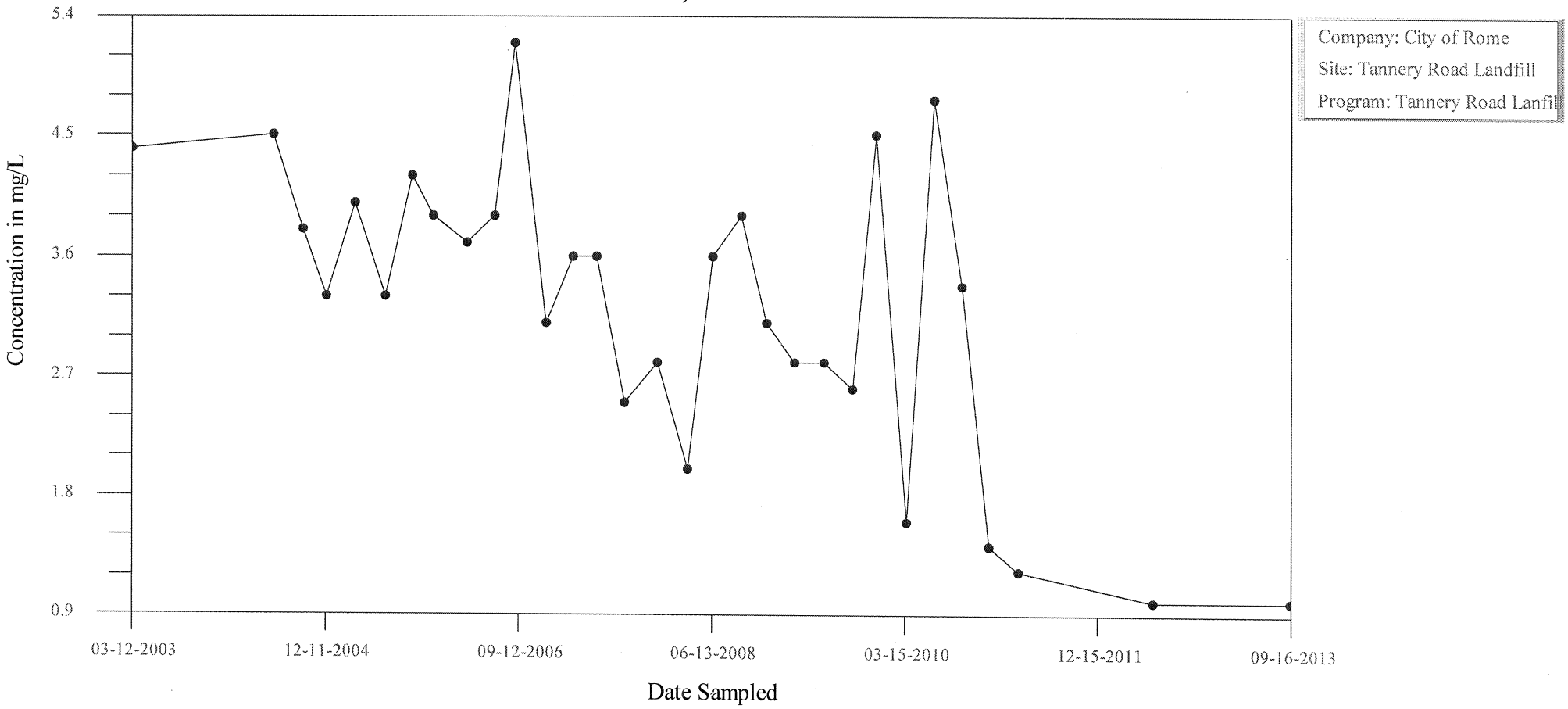
Time-Series Plot

Chemical Oxygen Demand, MW-2D



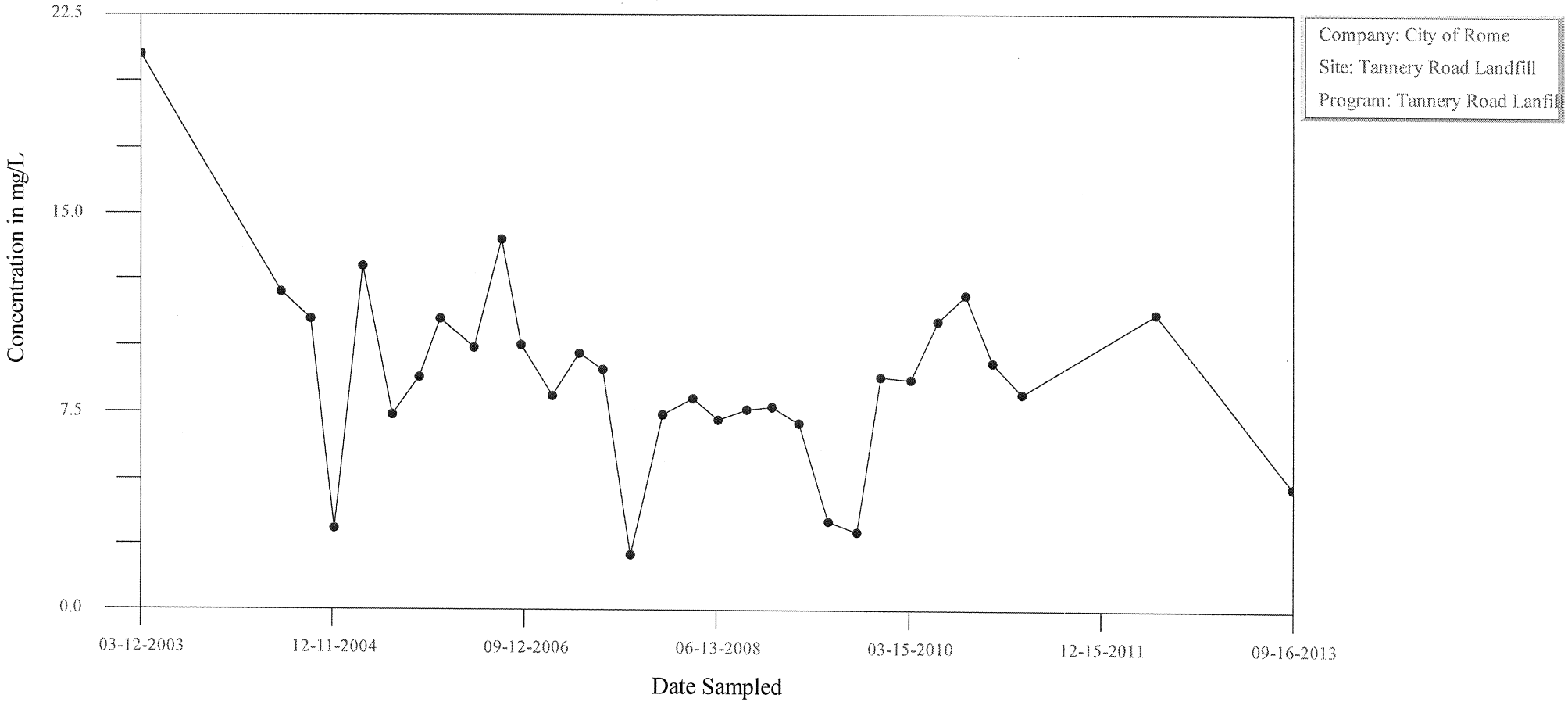
Time-Series Plot

Chloride, MW-2D



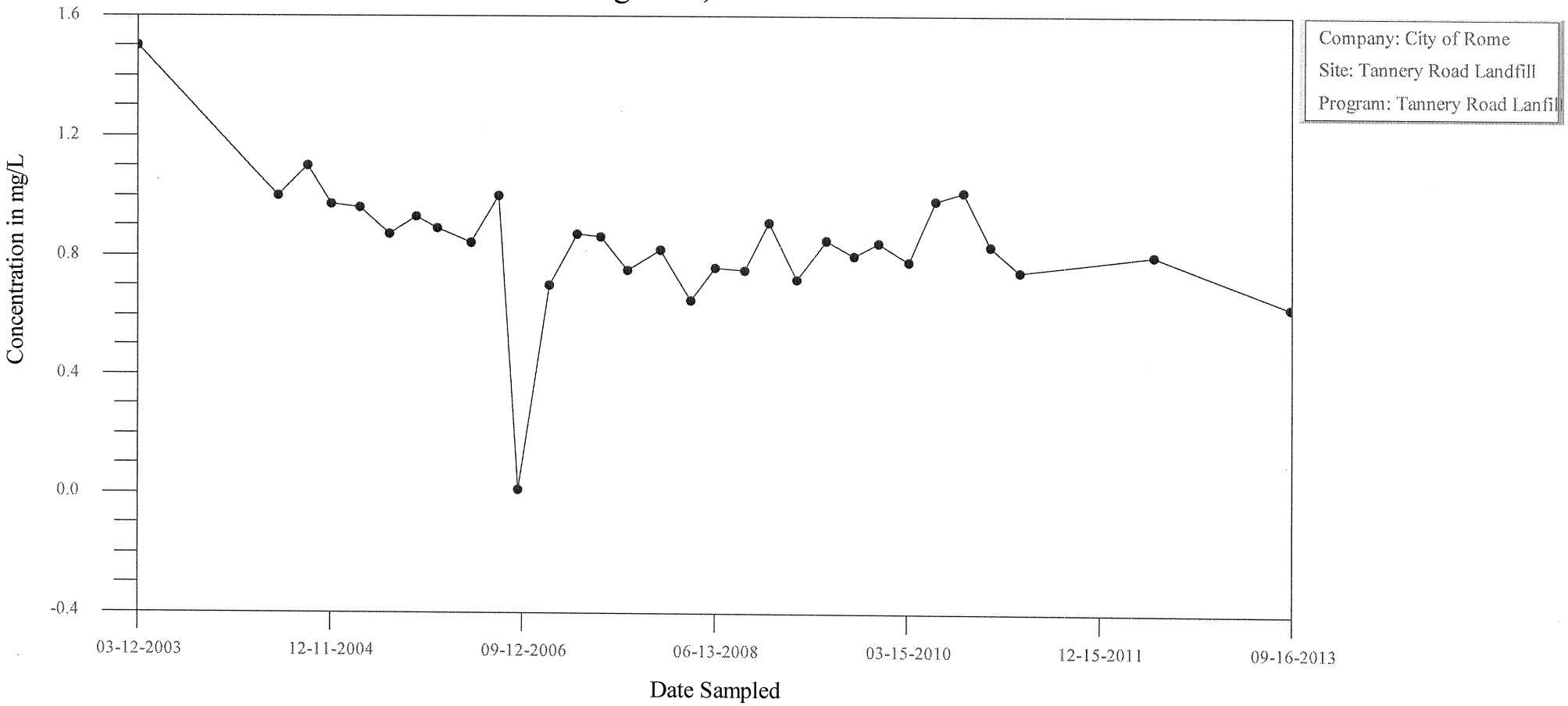
Time-Series Plot

Iron, MW-2D



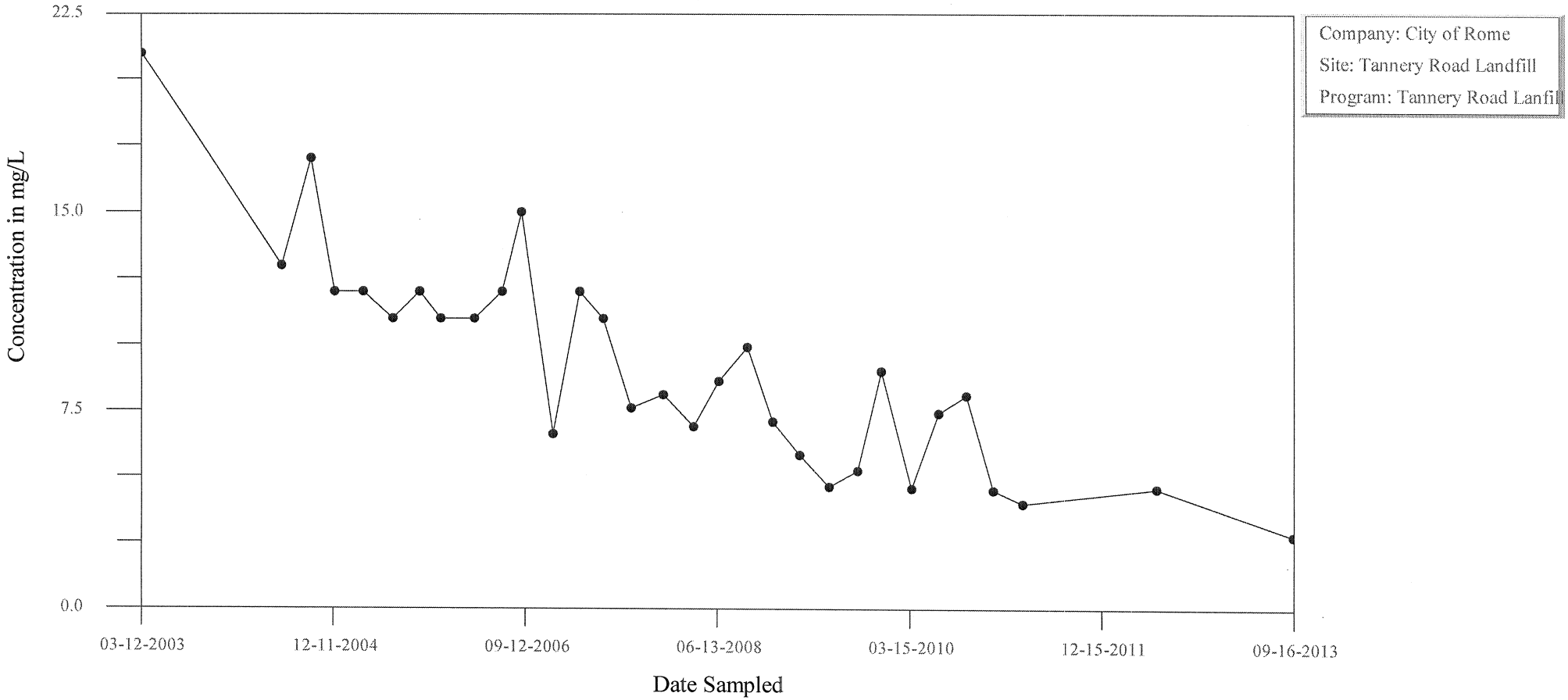
Time-Series Plot

Manganese, MW-2D



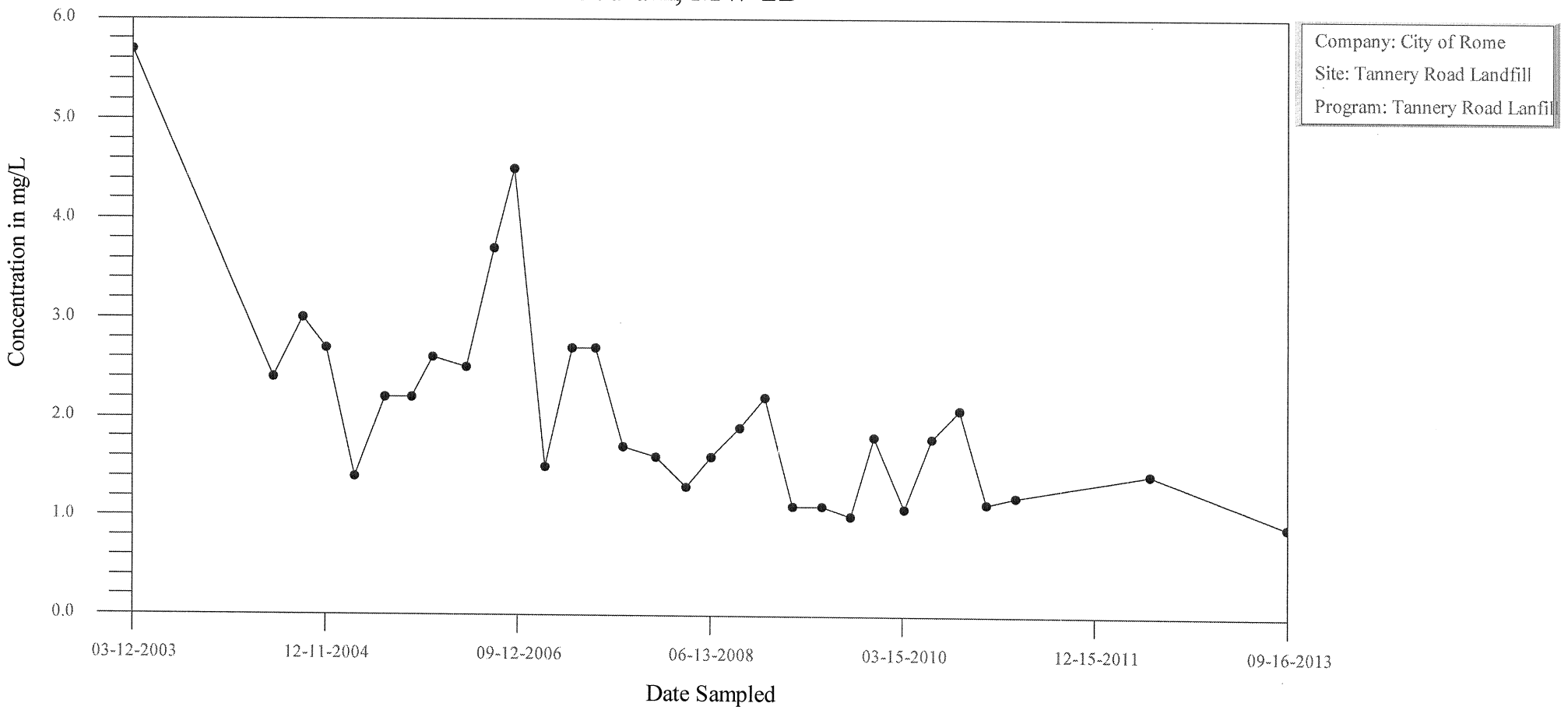
Time-Series Plot

Potassium, MW-2D



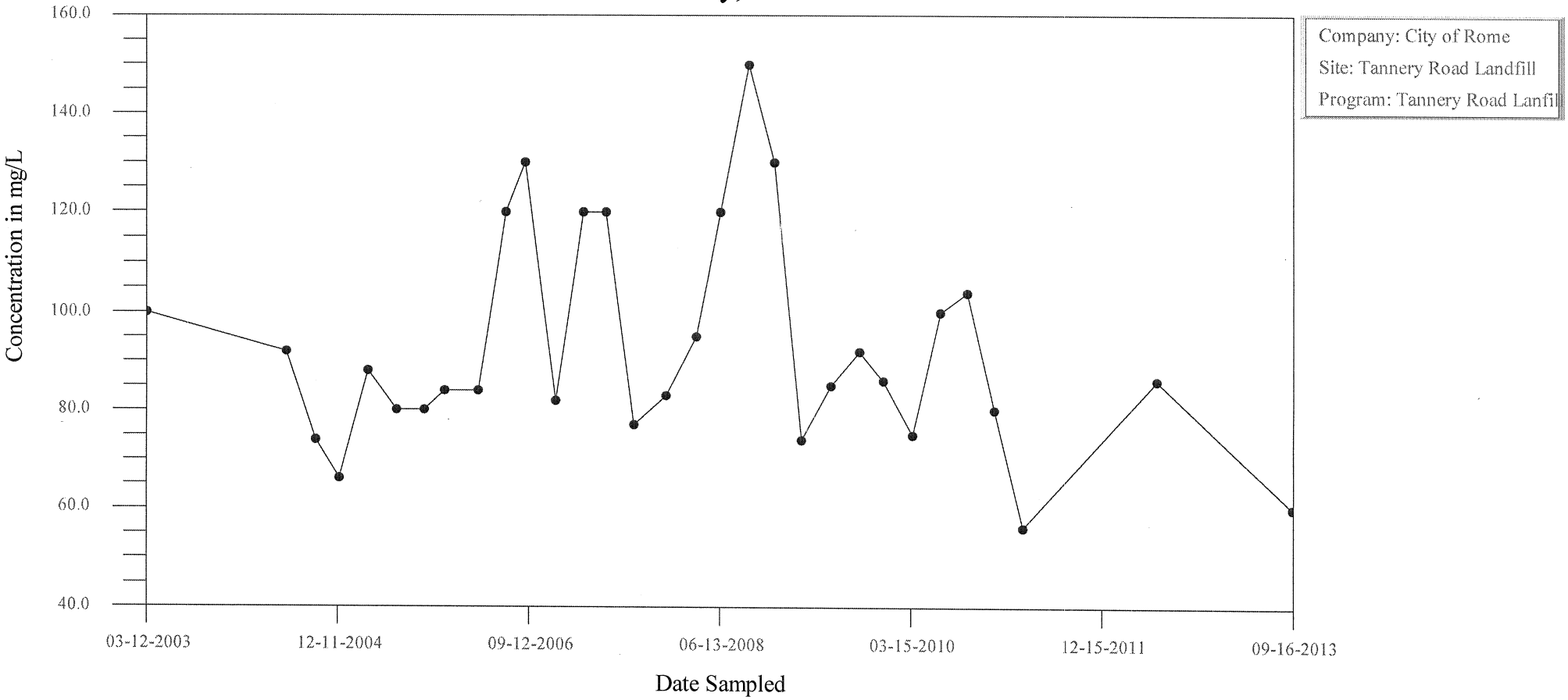
Time-Series Plot

Sodium, MW-2D



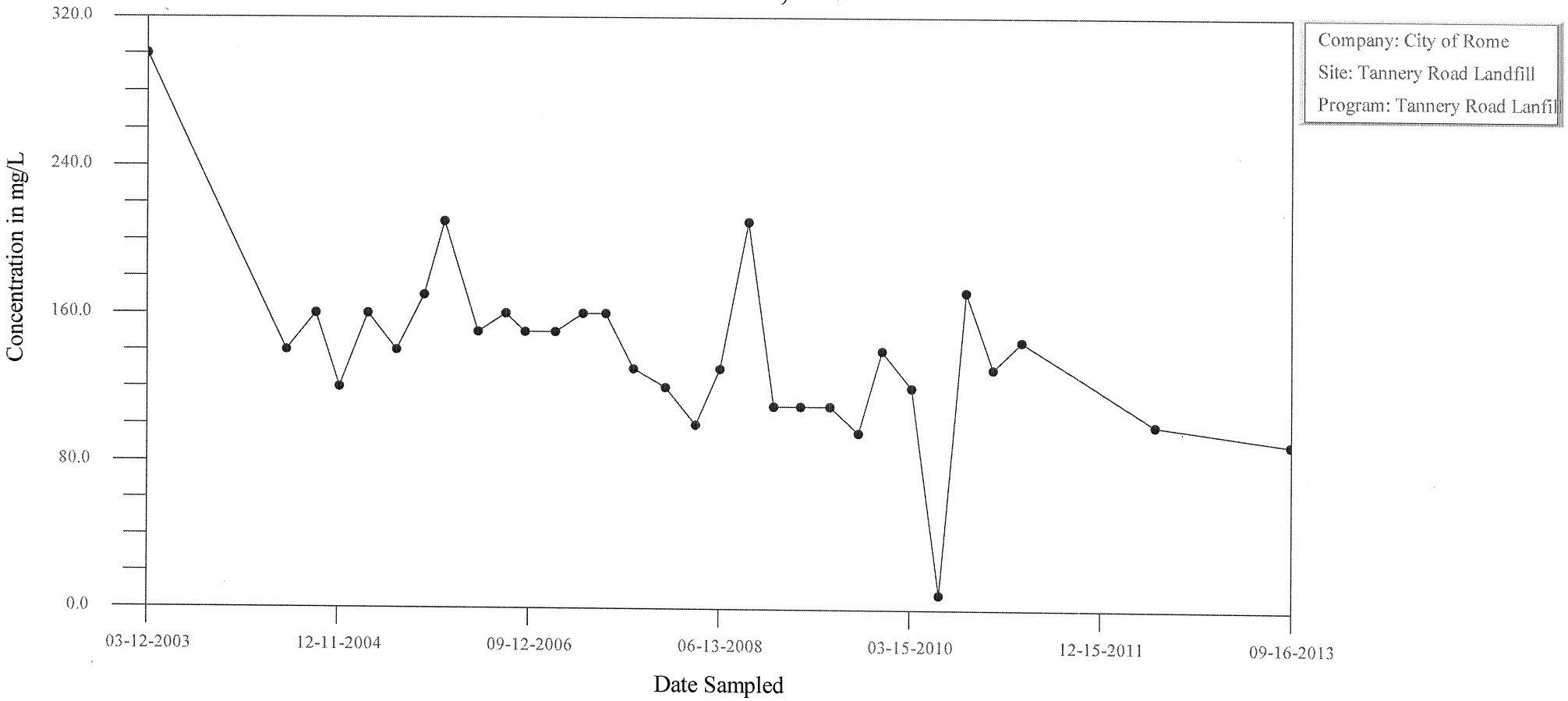
Time-Series Plot

Total Alkalinity, MW-2D



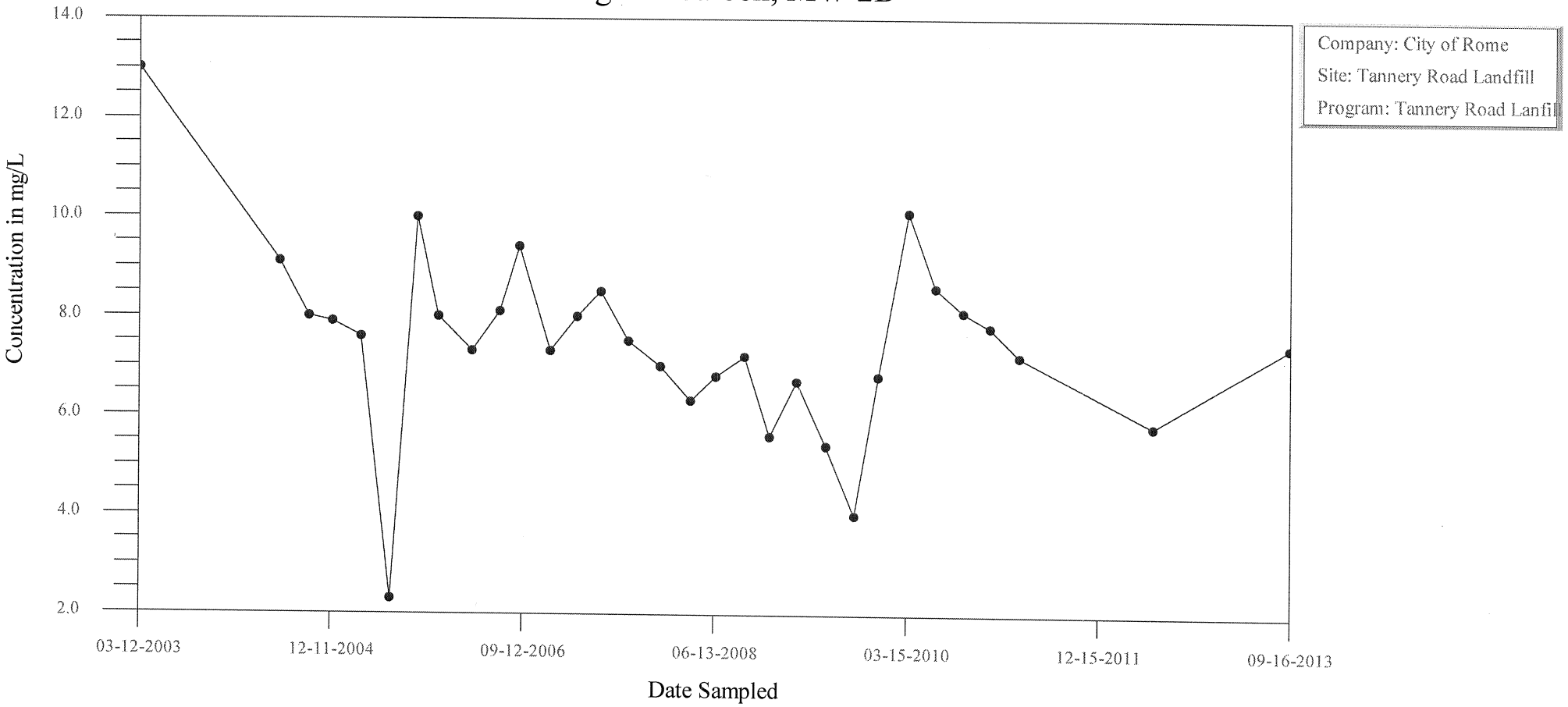
Time-Series Plot

Total Dissolved Solids, MW-2D



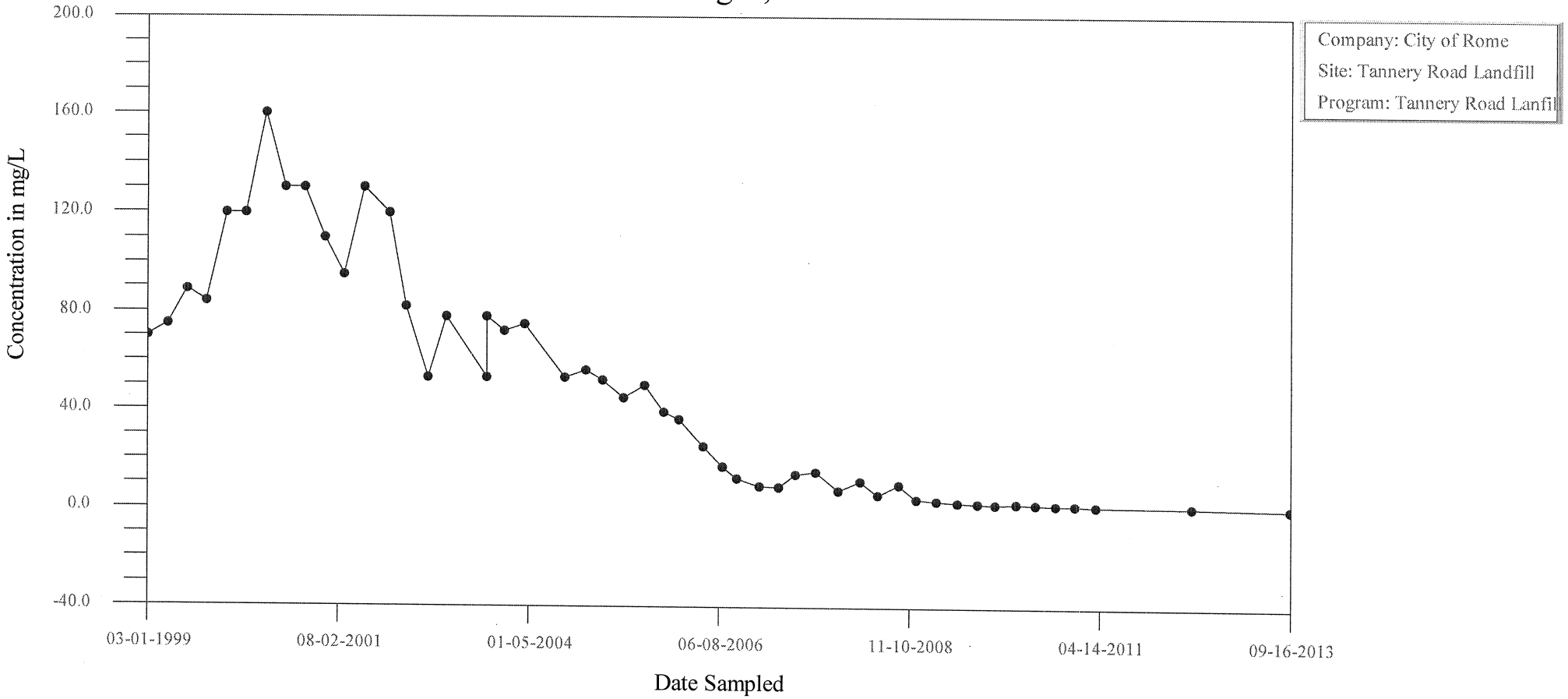
Time-Series Plot

Total Organic Carbon, MW-2D



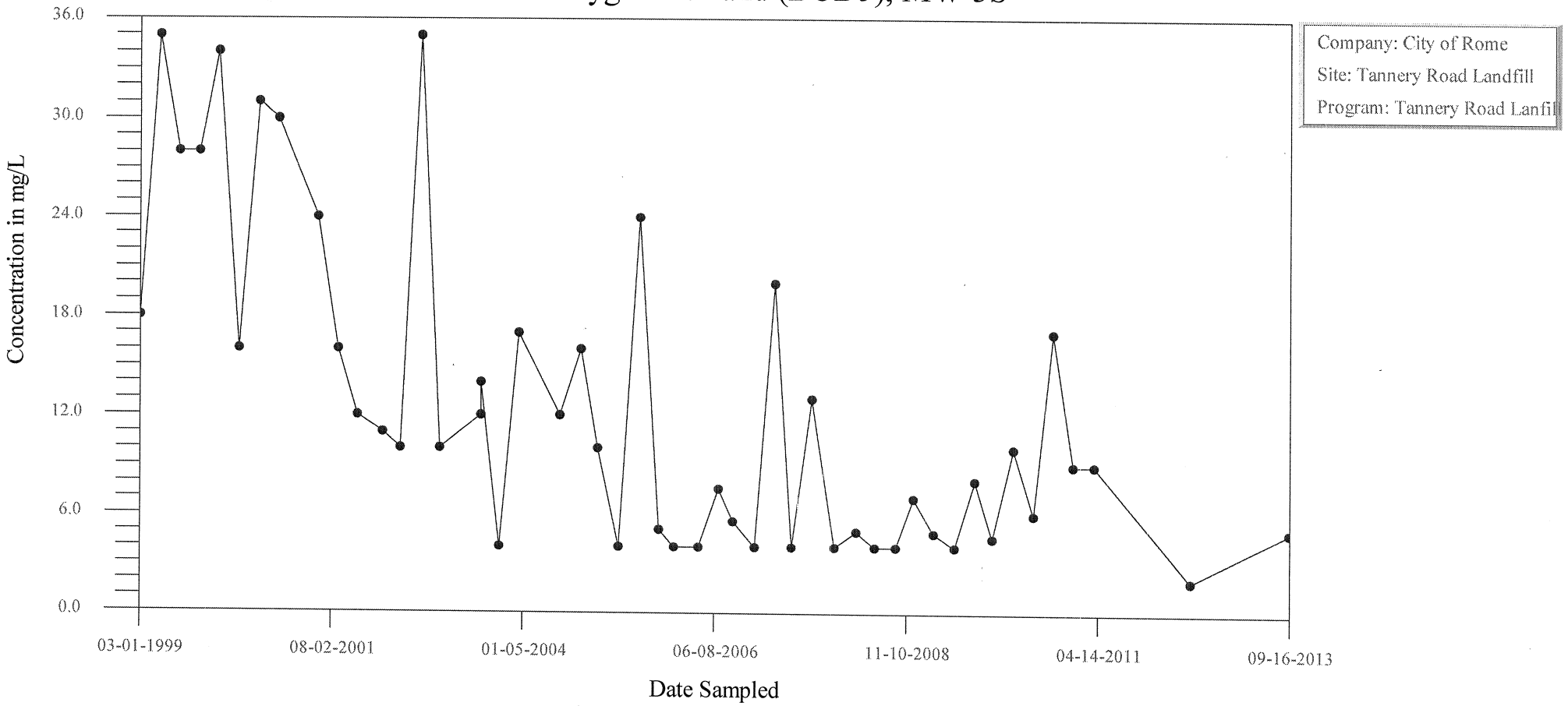
Time-Series Plot

Ammonia-Nitrogen, MW-3S



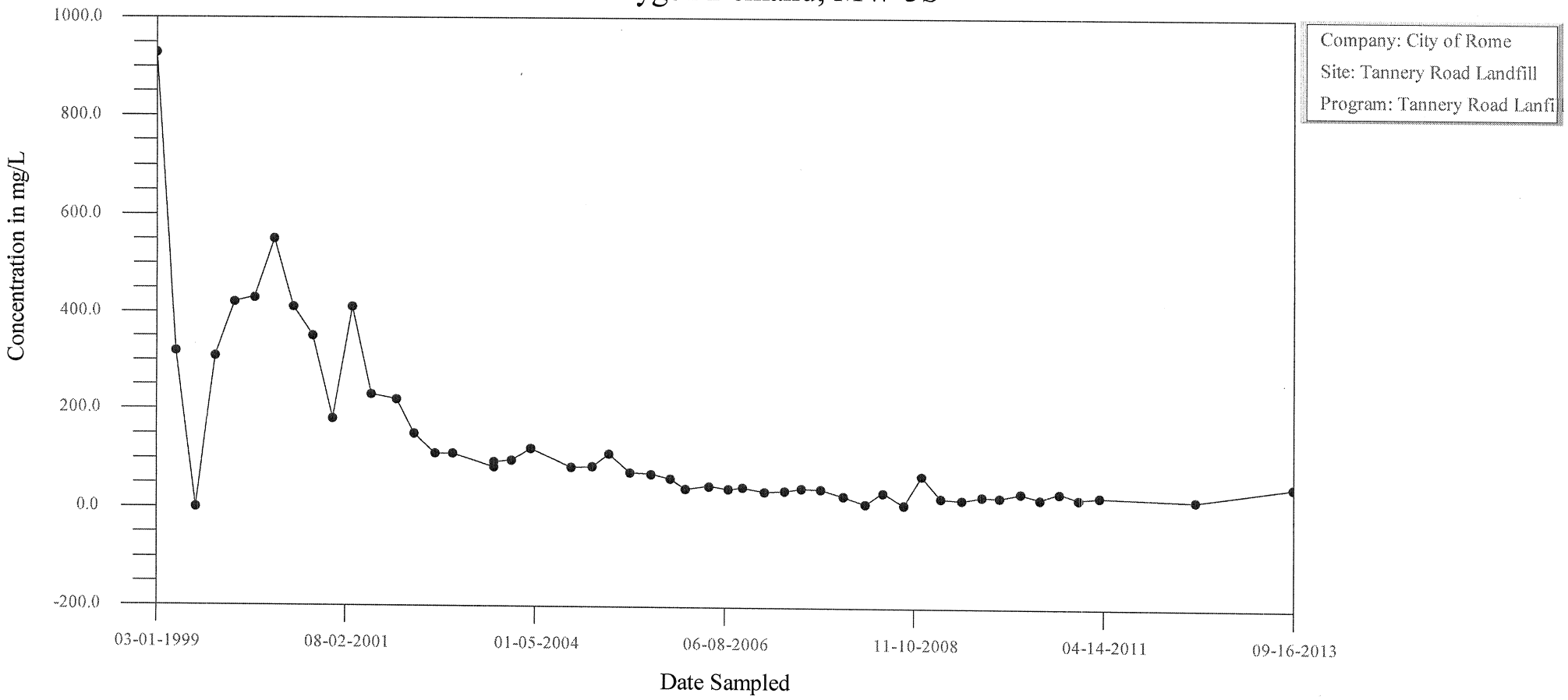
Time-Series Plot

Biochemical Oxygen Demand (BOD5), MW-3S



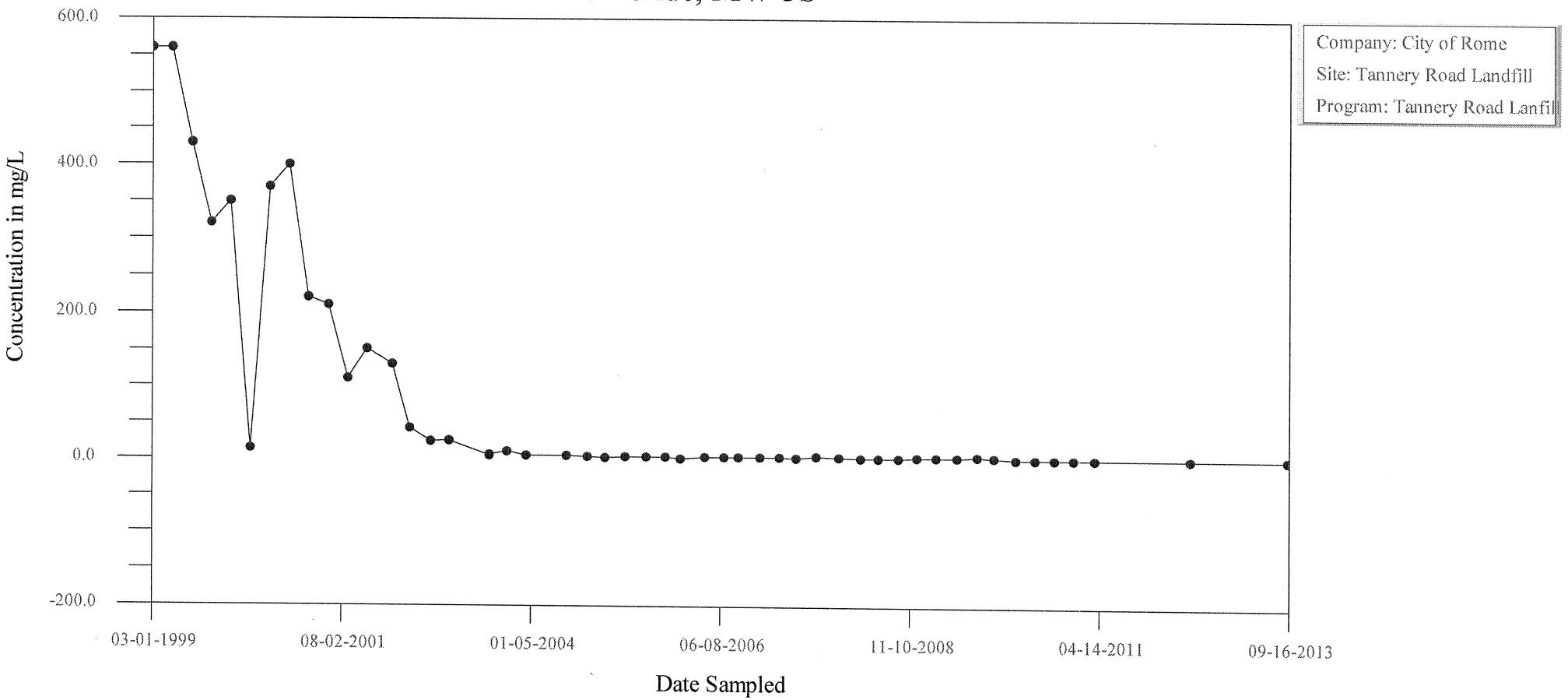
Time-Series Plot

Chemical Oxygen Demand, MW-3S



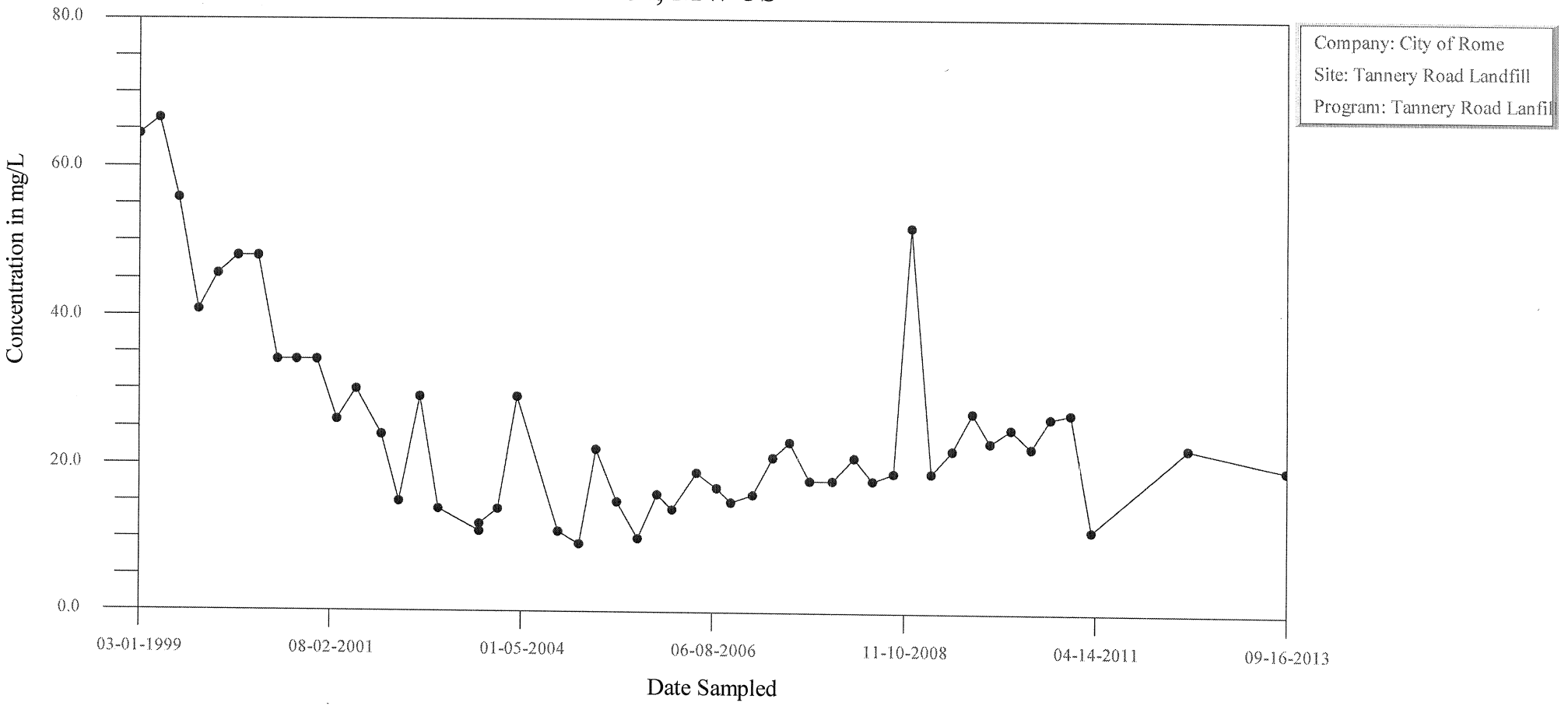
Time-Series Plot

Chloride, MW-3S



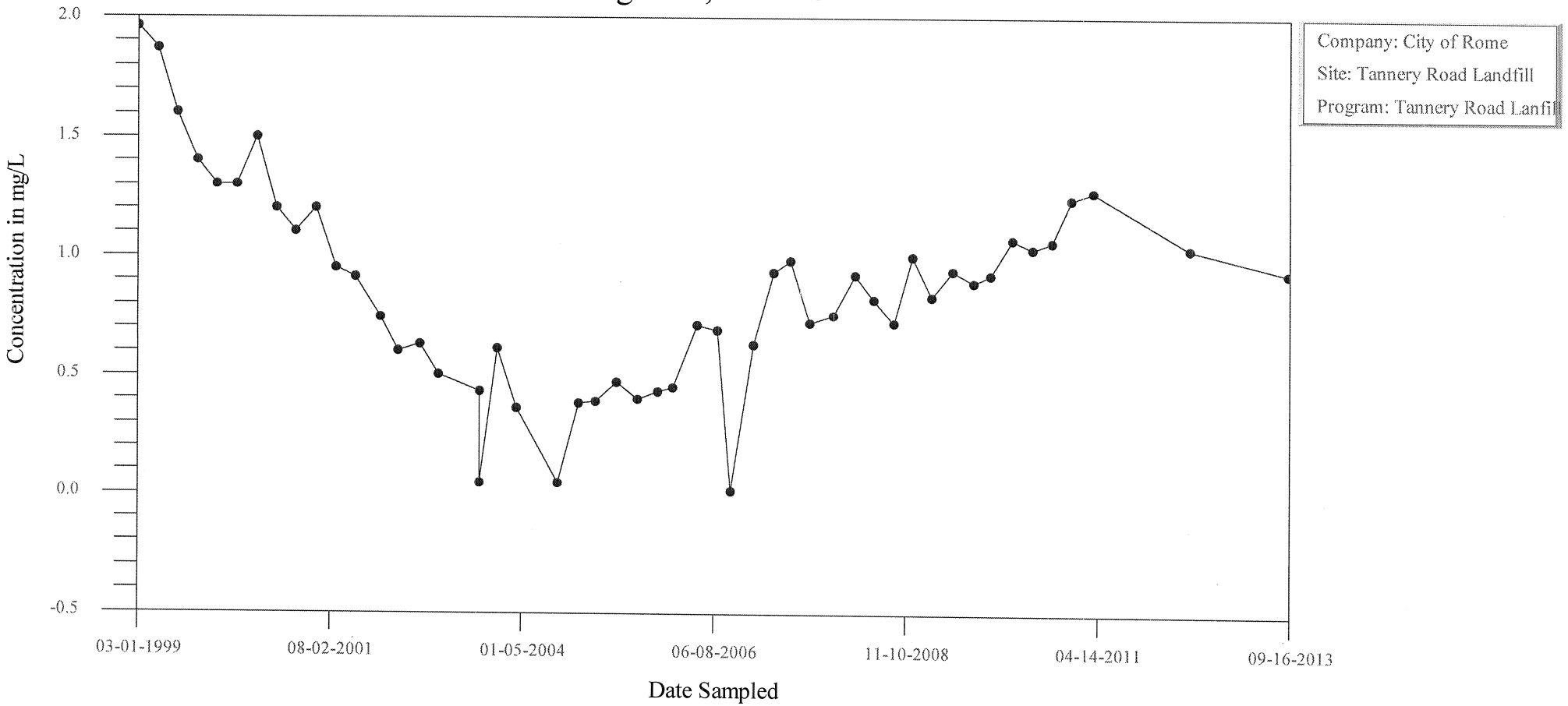
Time-Series Plot

Iron, MW-3S



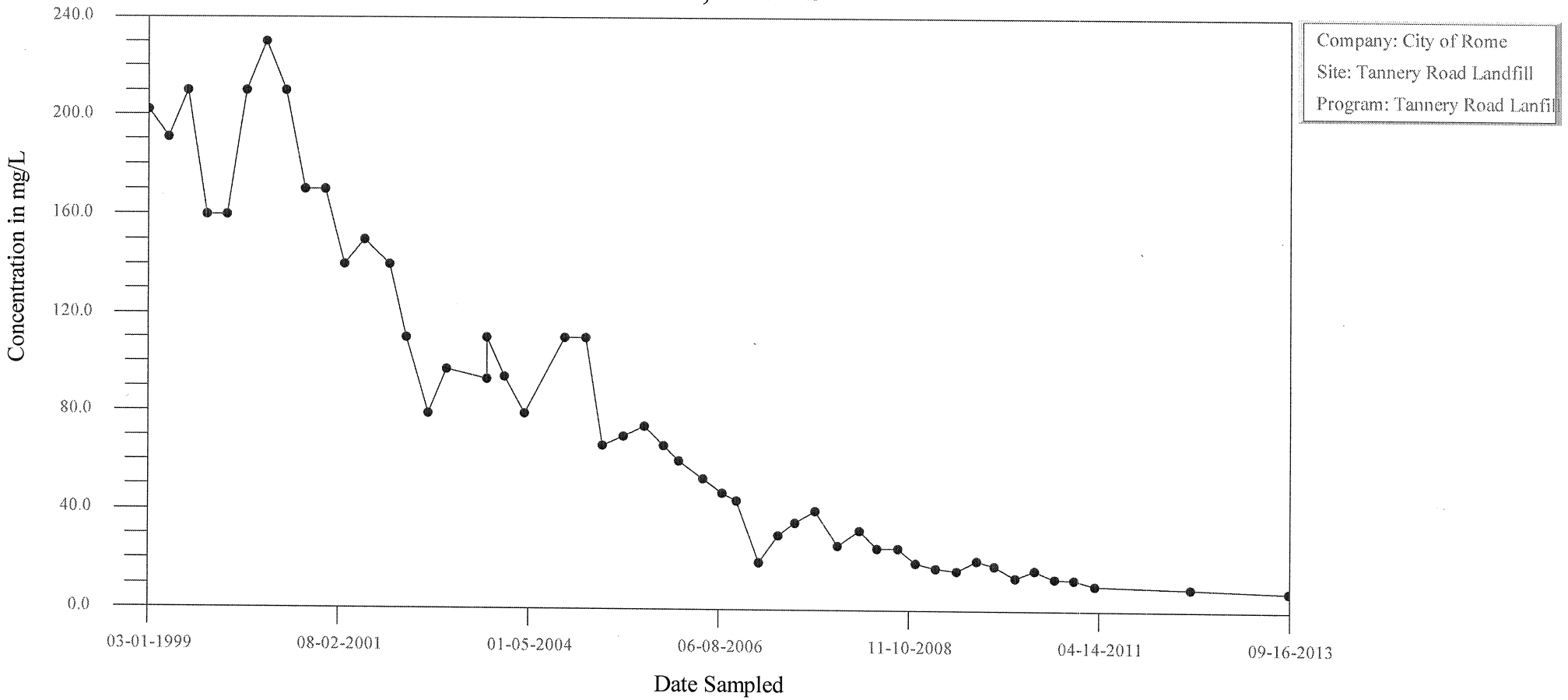
Time-Series Plot

Manganese, MW-3S



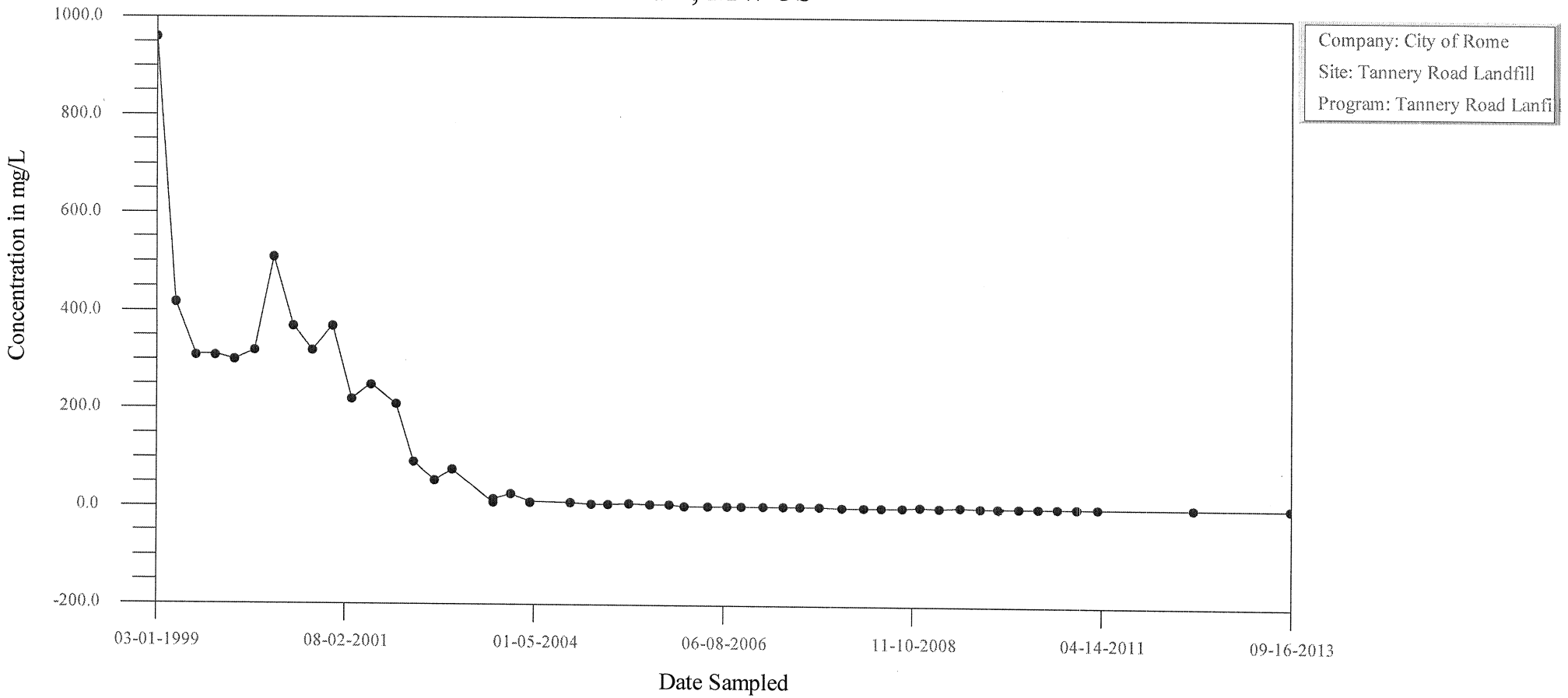
Time-Series Plot

Potassium, MW-3S



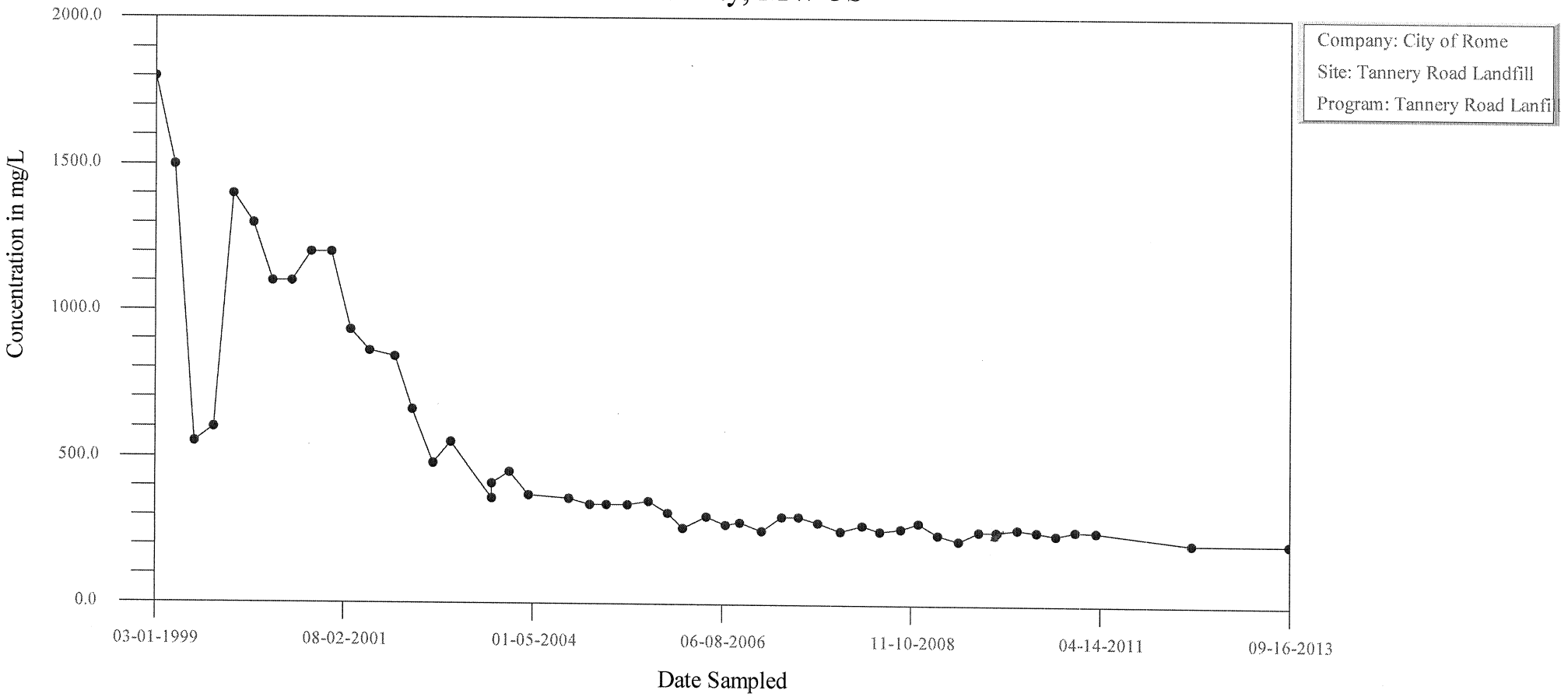
Time-Series Plot

Sodium, MW-3S



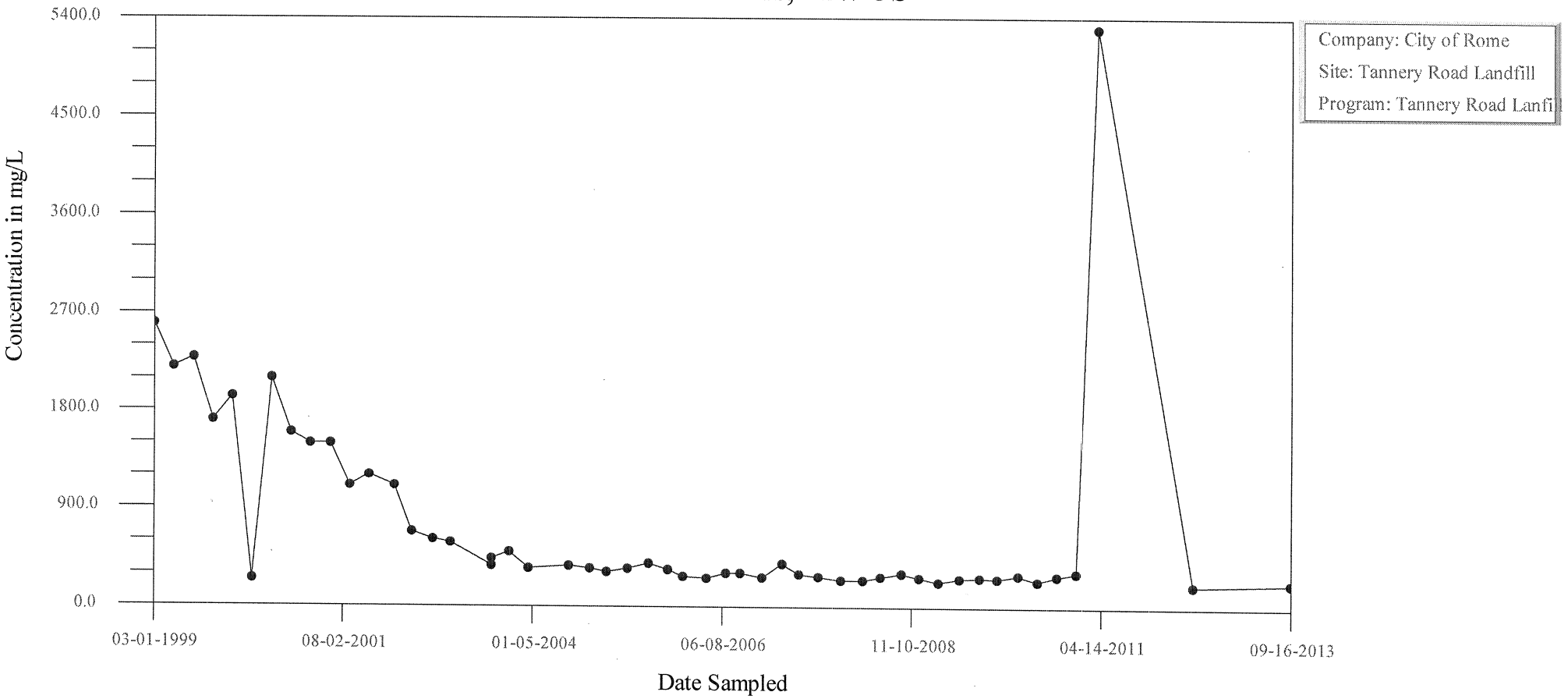
Time-Series Plot

Total Alkalinity, MW-3S



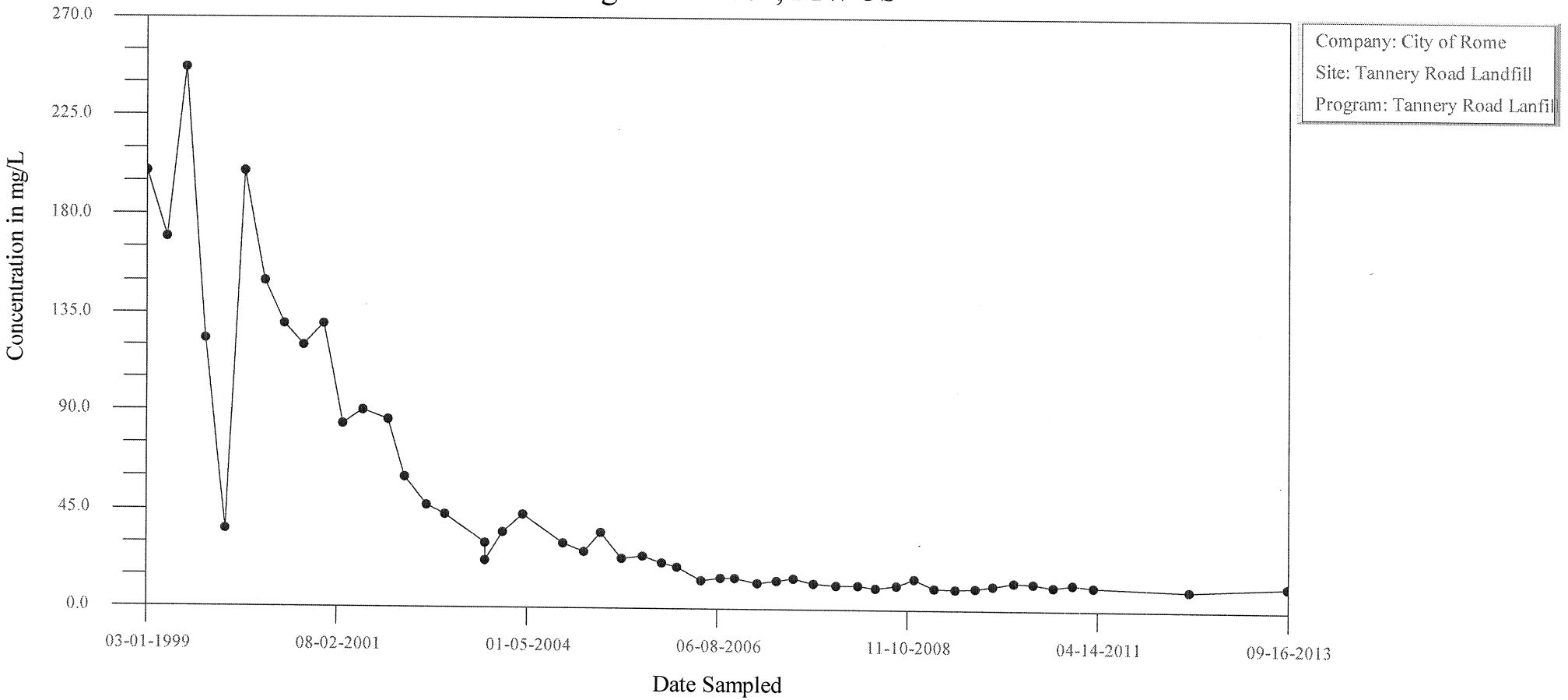
Time-Series Plot

Total Dissolved Solids, MW-3S



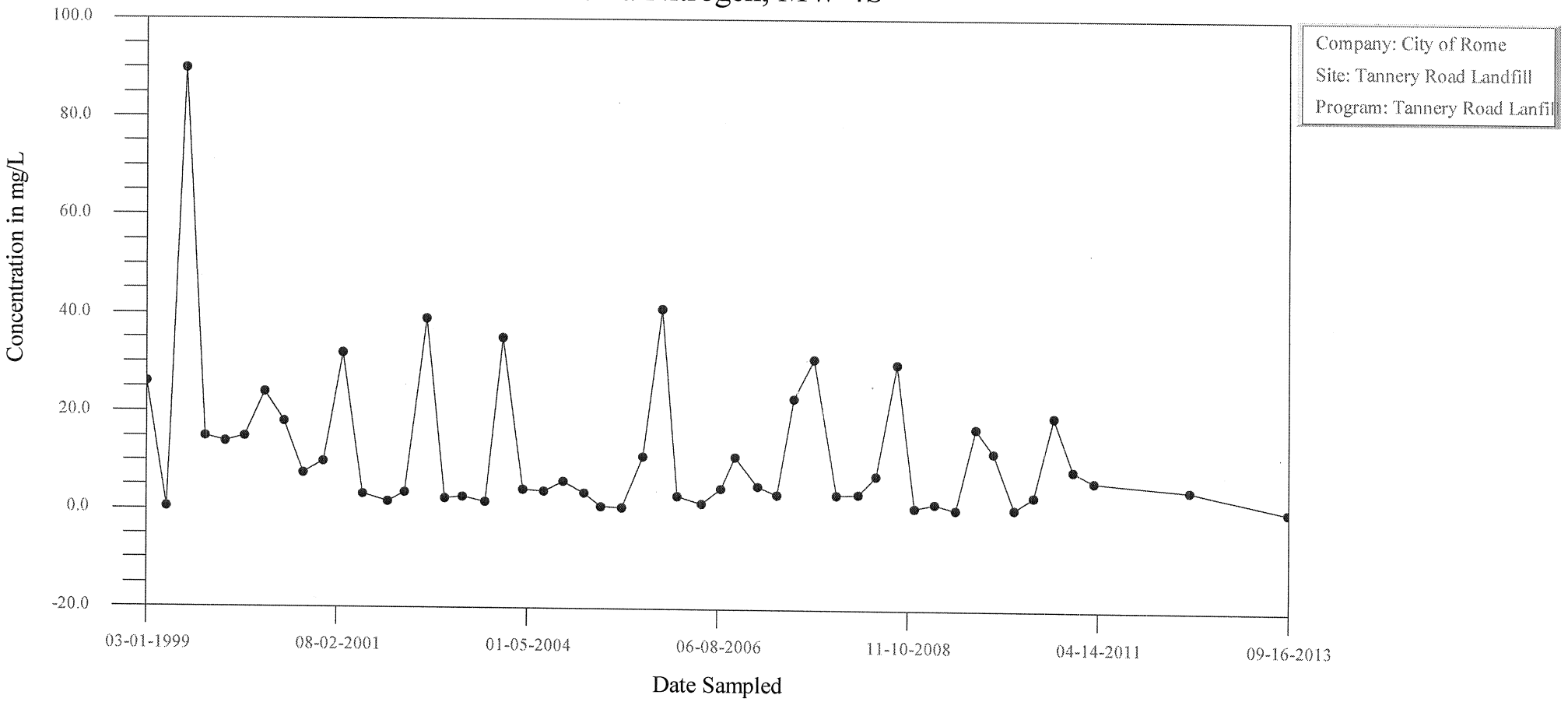
Time-Series Plot

Total Organic Carbon, MW-3S



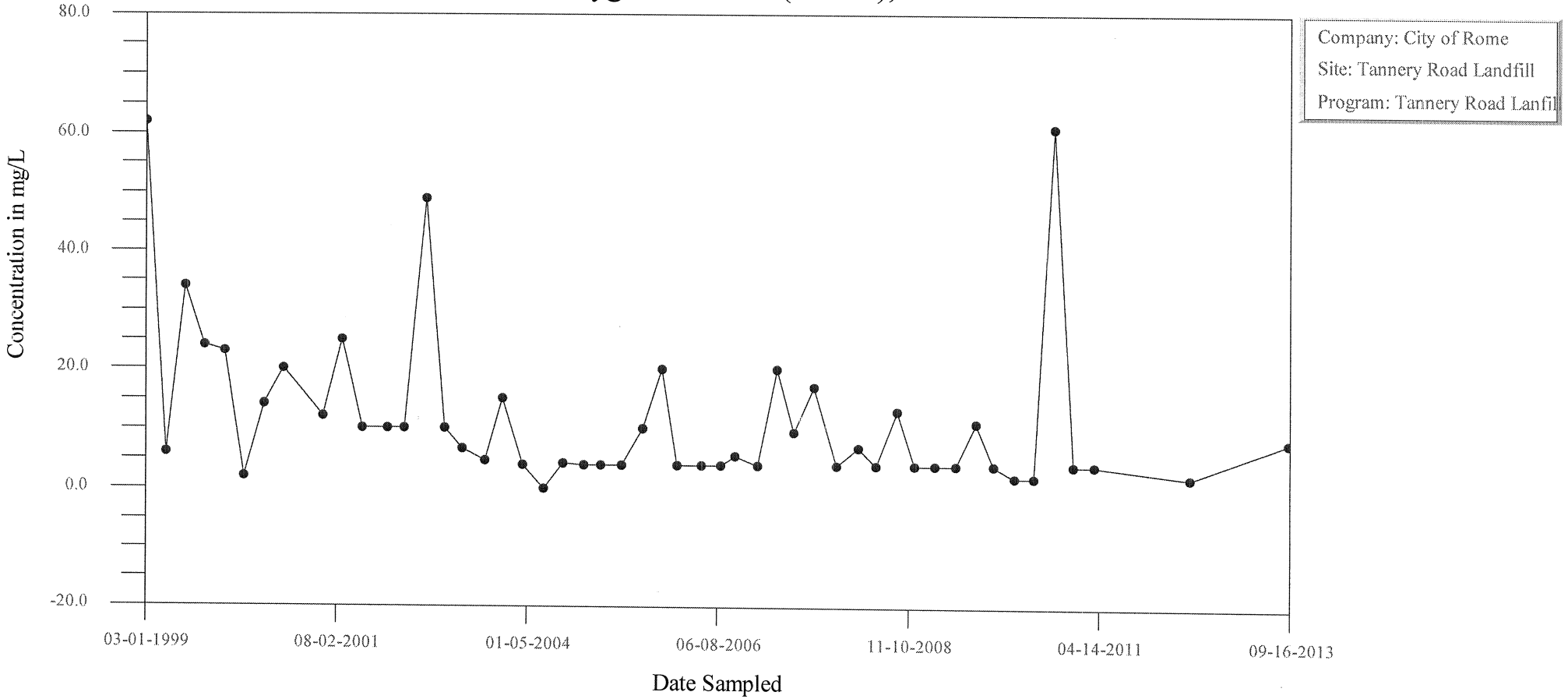
Time-Series Plot

Ammonia-Nitrogen, MW-4S



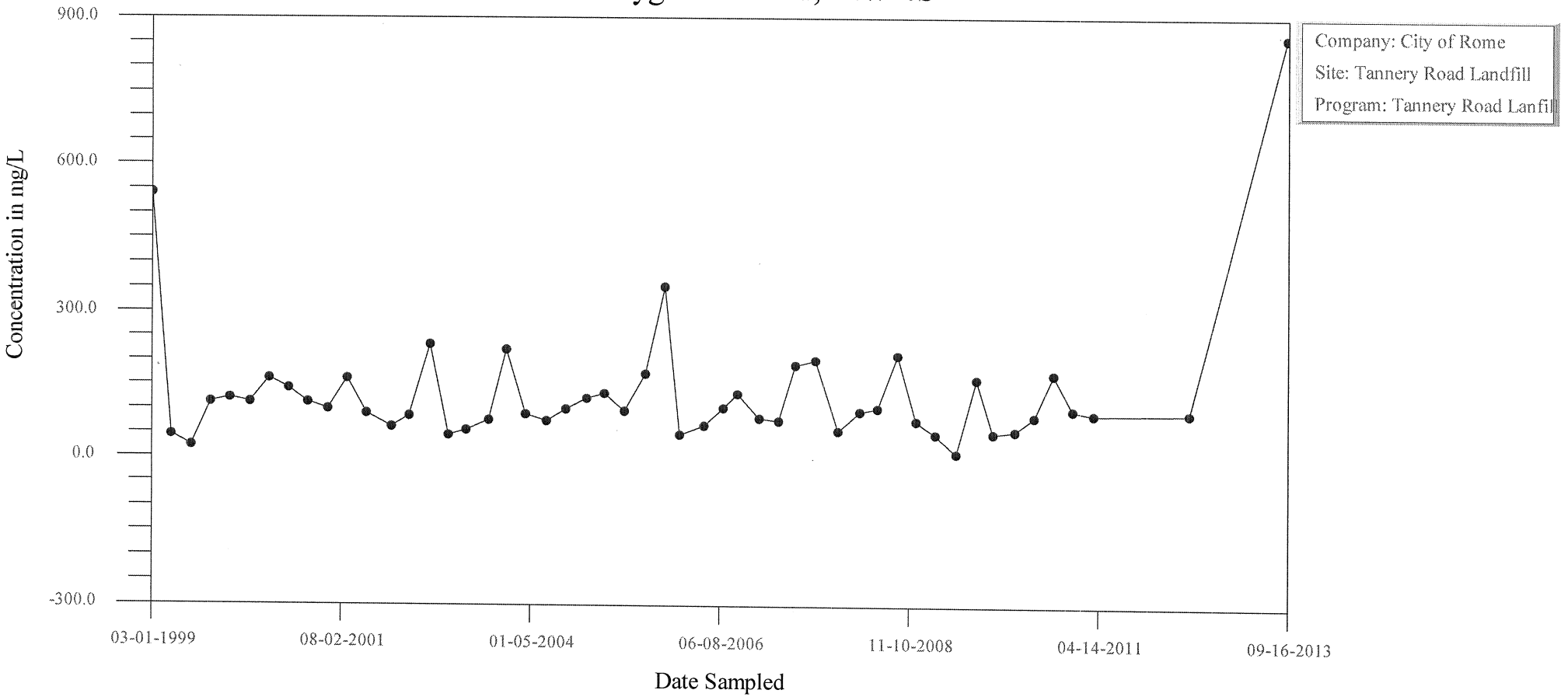
Time-Series Plot

Biochemical Oxygen Demand (BOD5), MW-4S



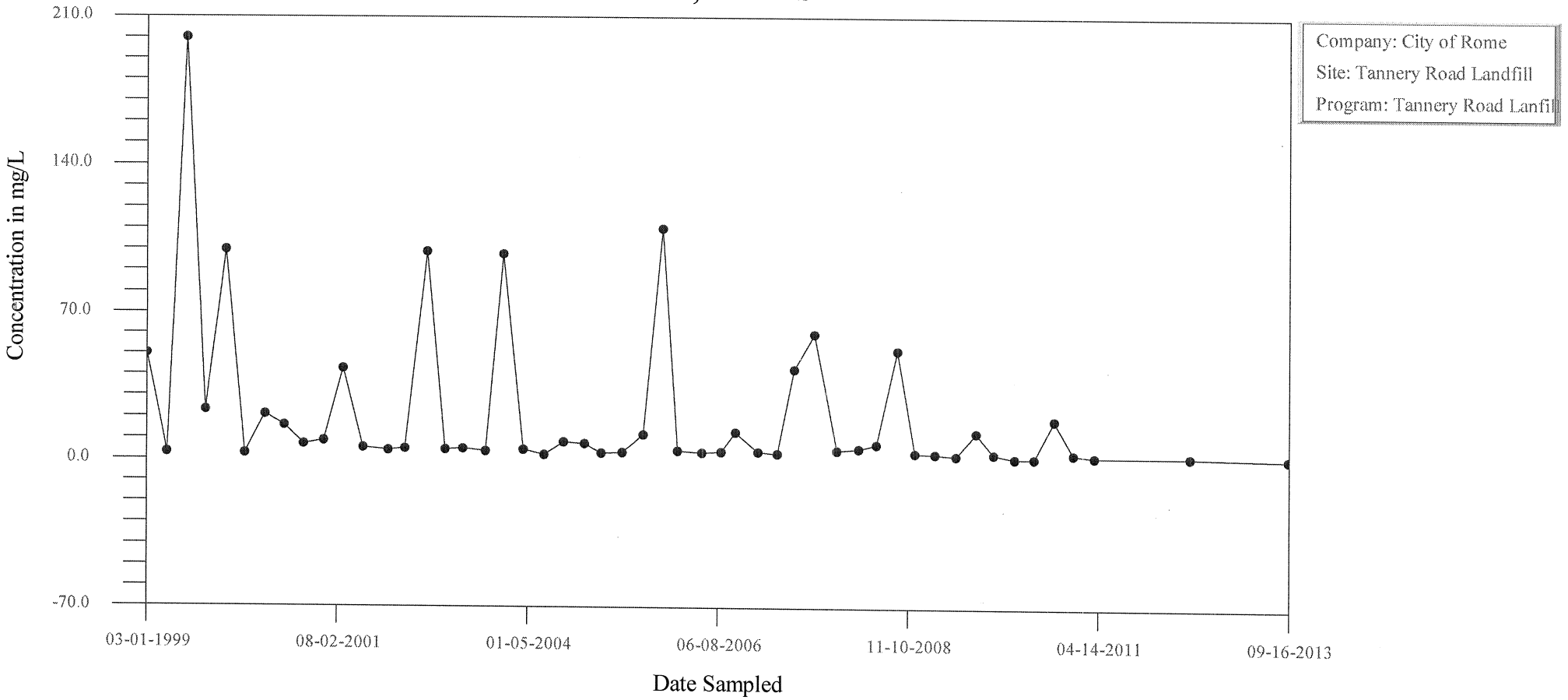
Time-Series Plot

Chemical Oxygen Demand, MW-4S



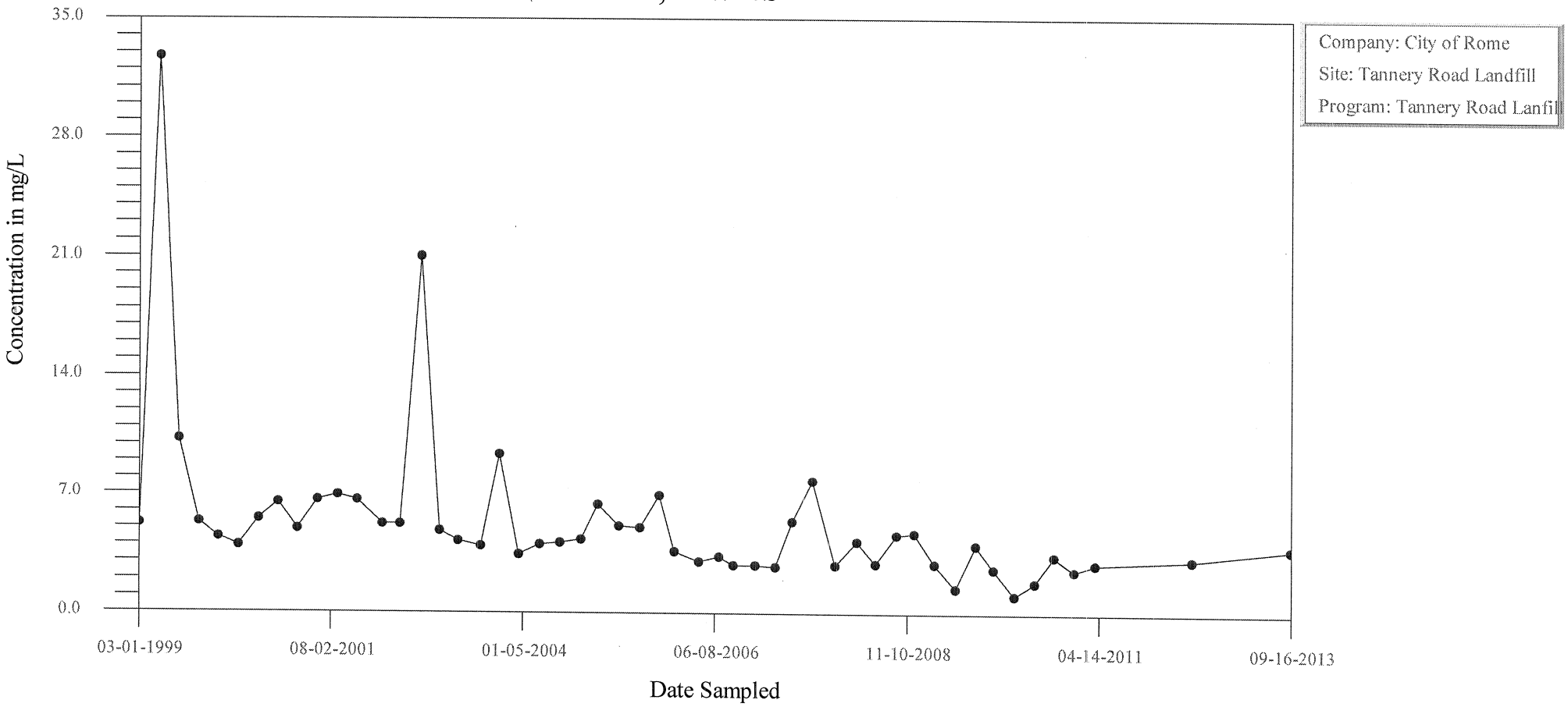
Time-Series Plot

Chloride, MW-4S



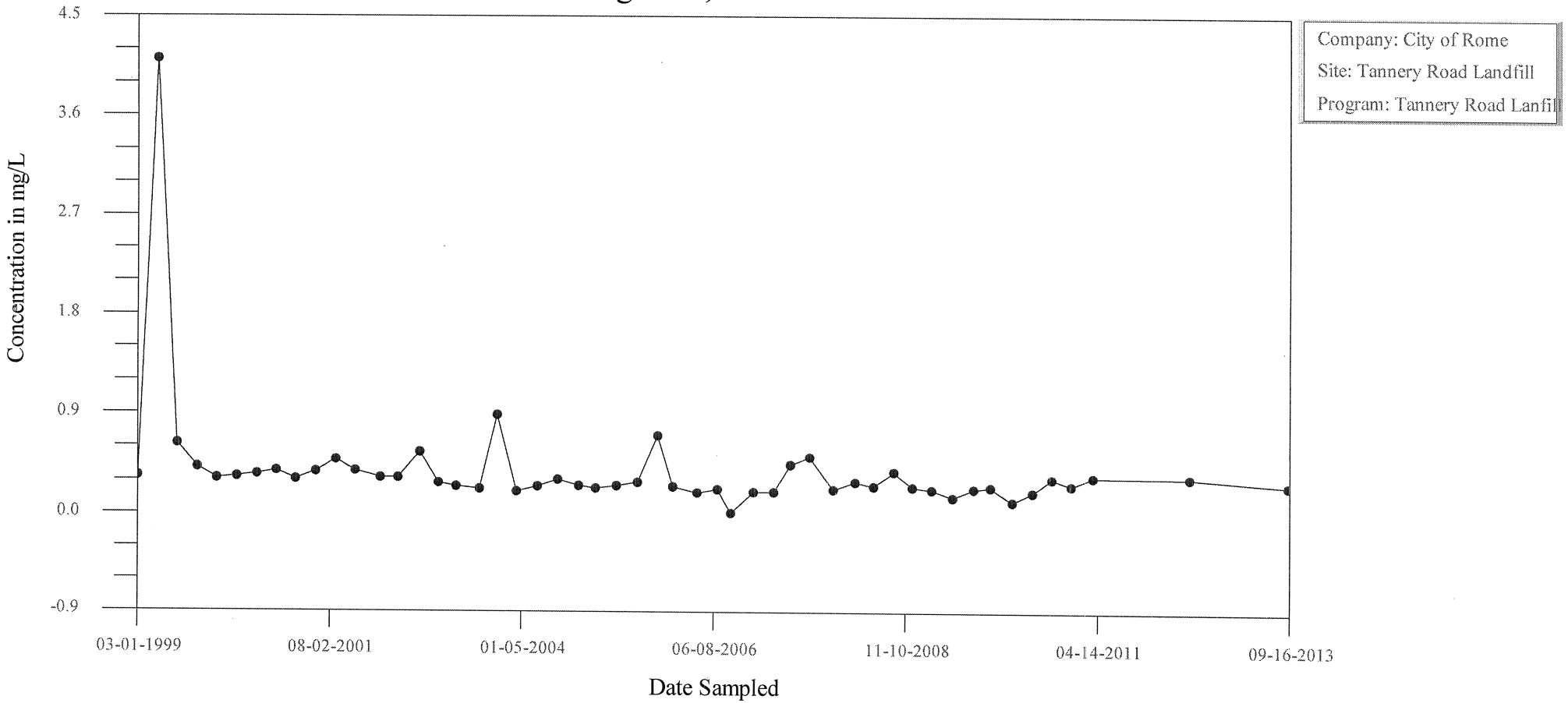
Time-Series Plot

Iron, MW-4S



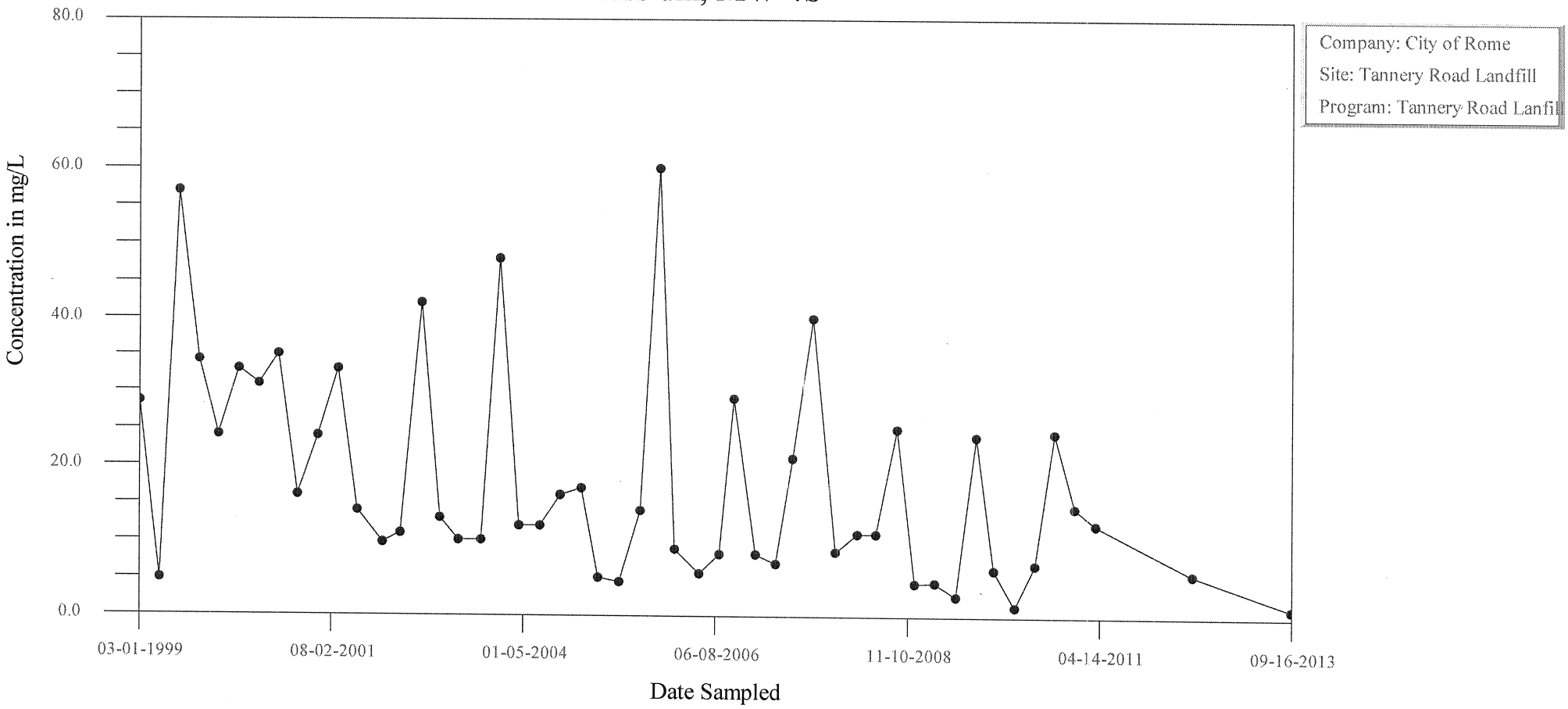
Time-Series Plot

Manganese, MW-4S



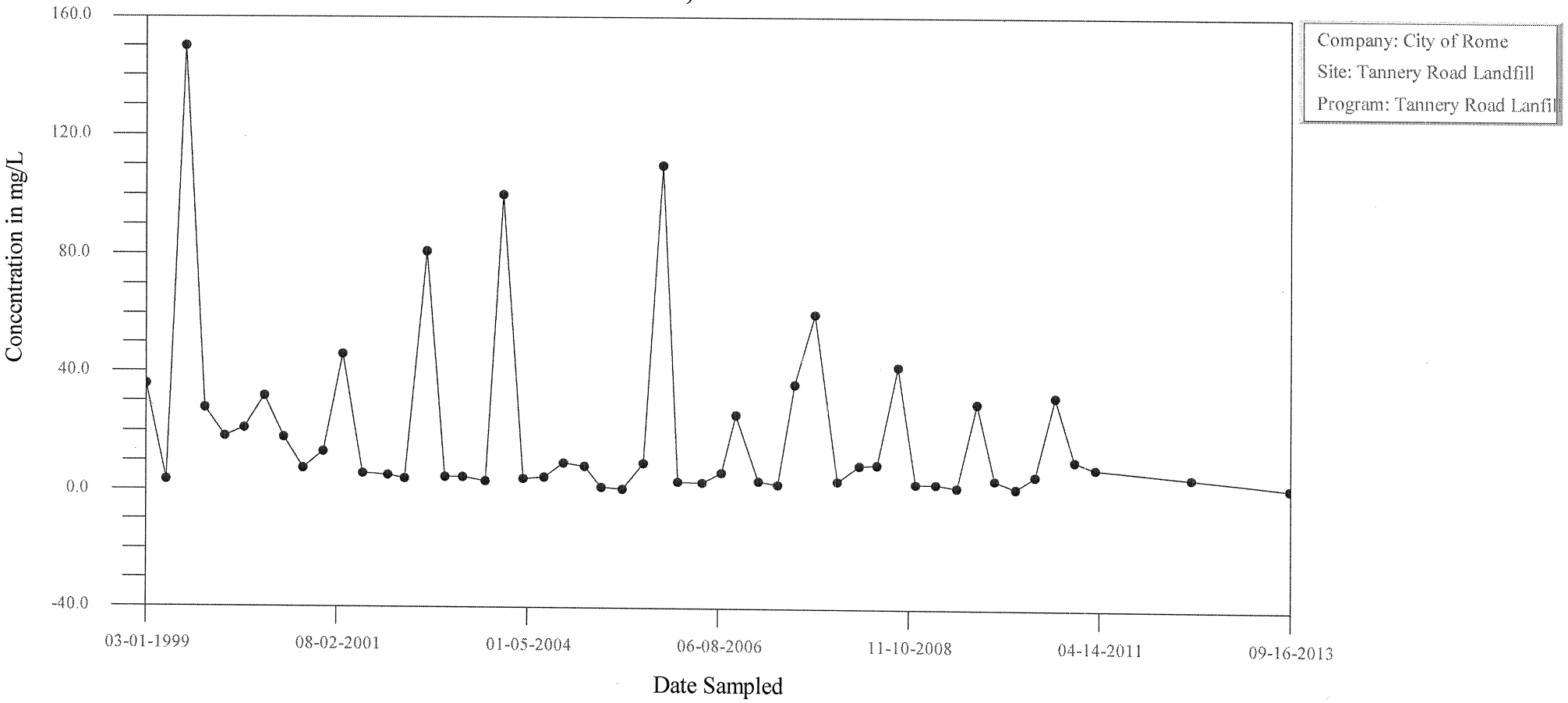
Time-Series Plot

Potassium, MW-4S



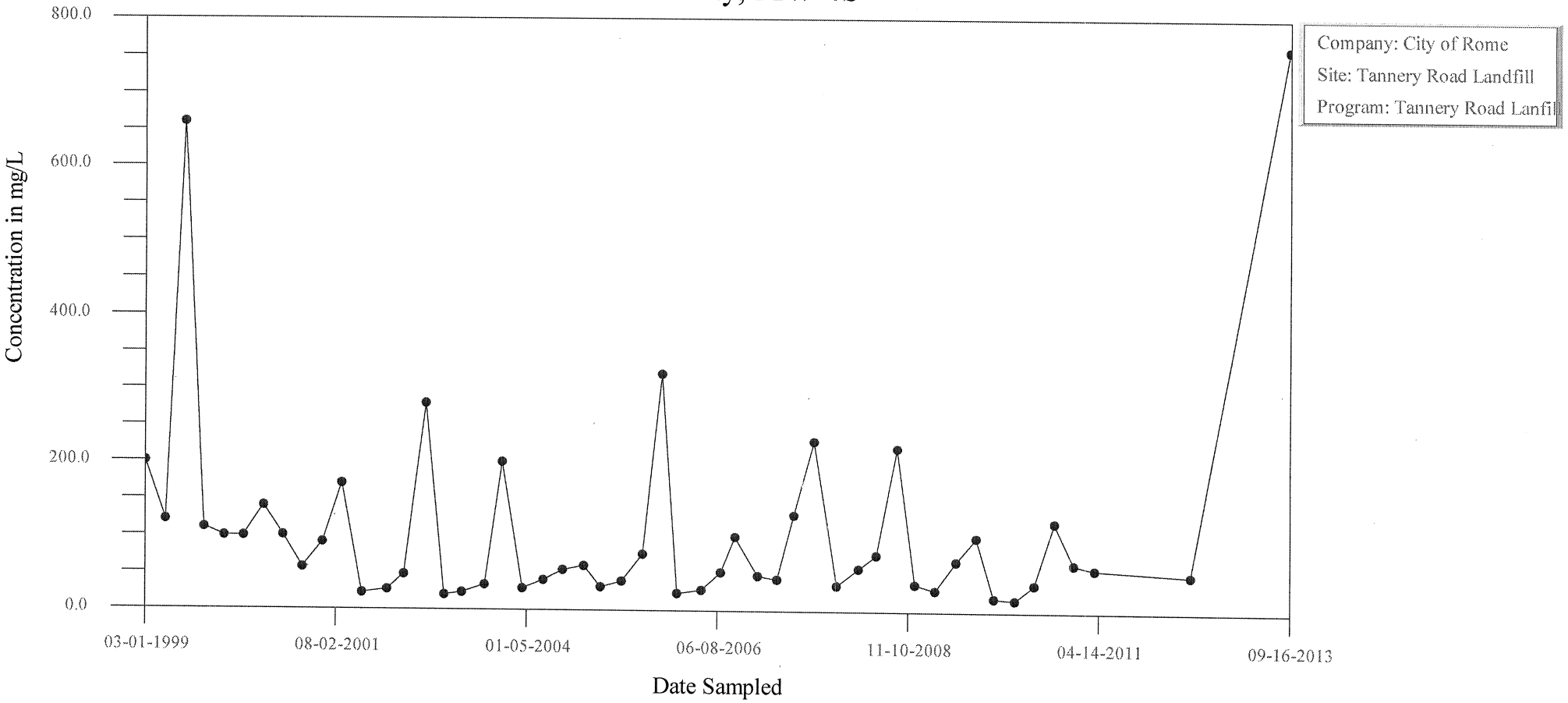
Time-Series Plot

Sodium, MW-4S



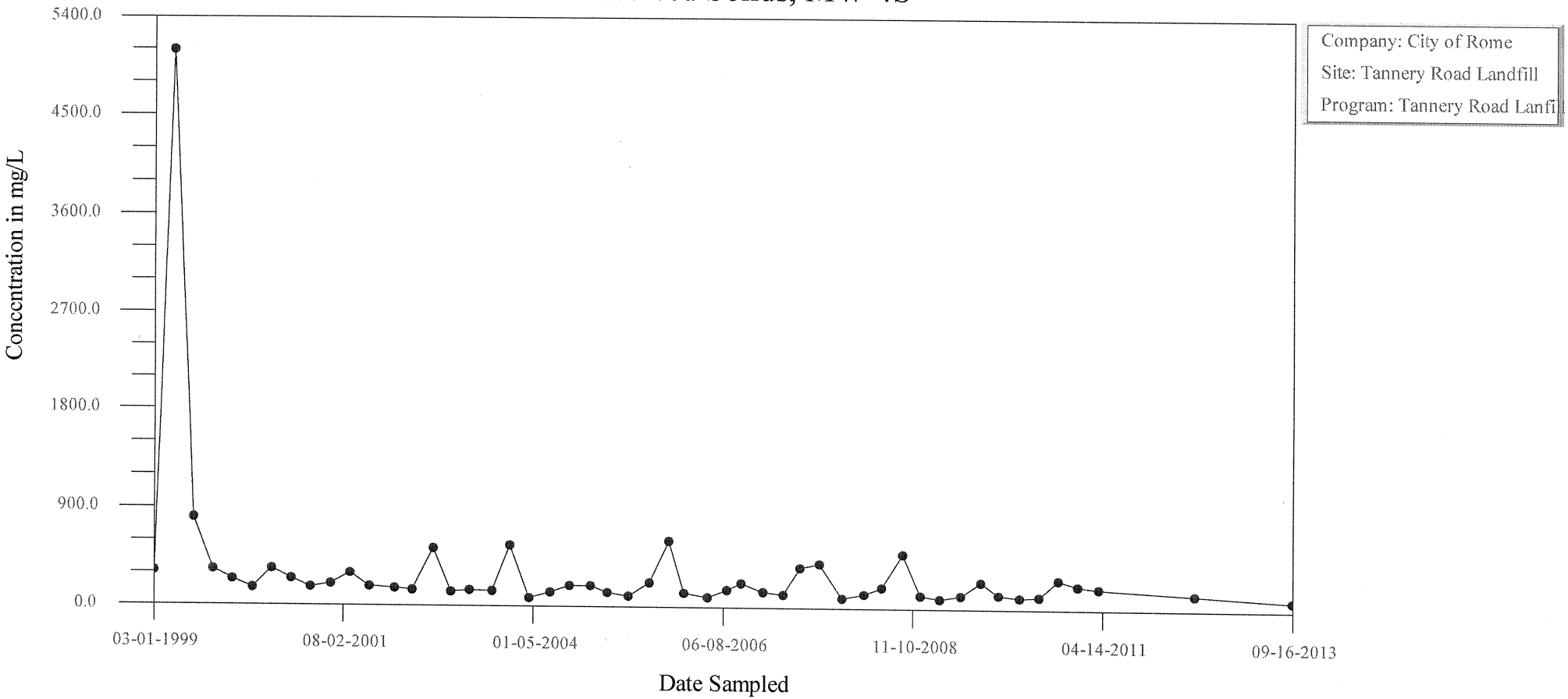
Time-Series Plot

Total Alkalinity, MW-4S



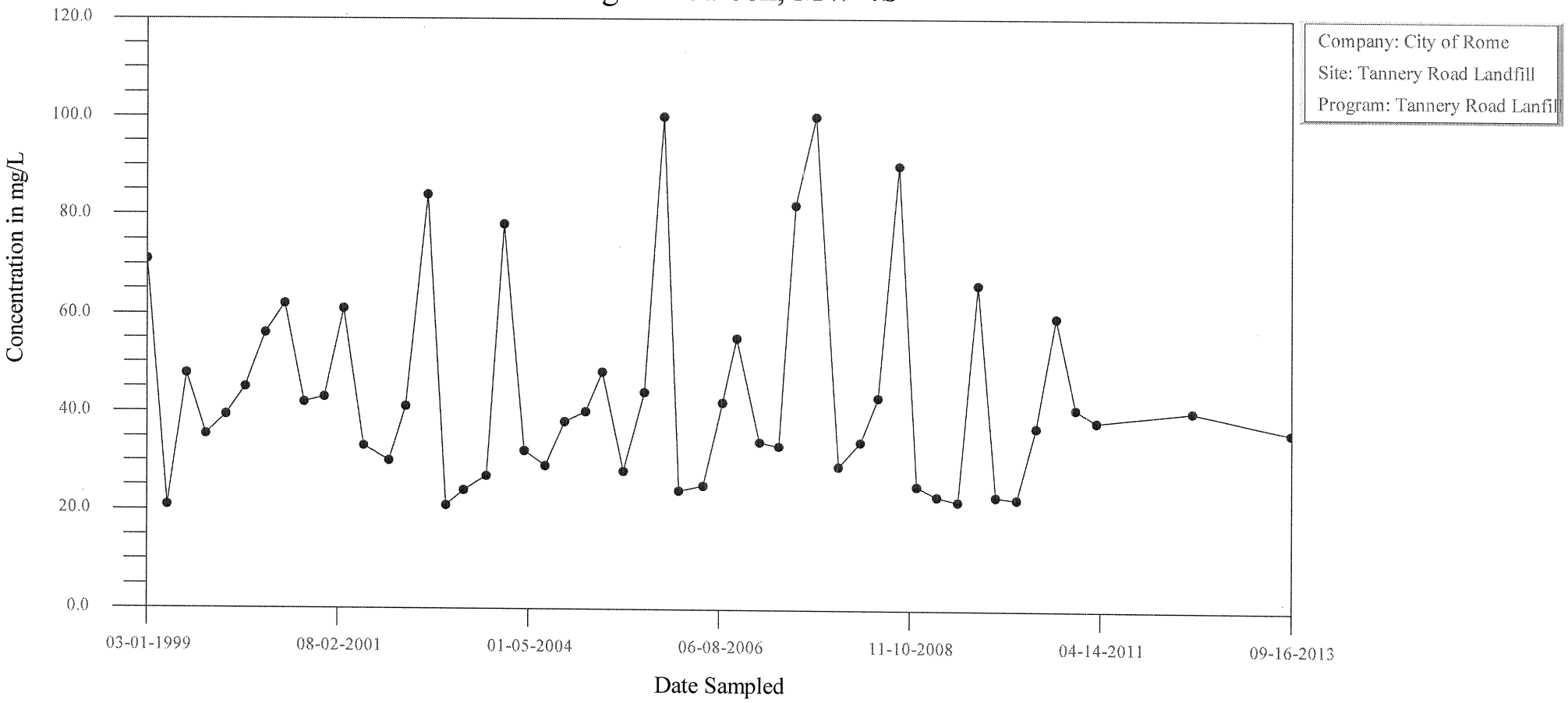
Time-Series Plot

Total Dissolved Solids, MW-4S



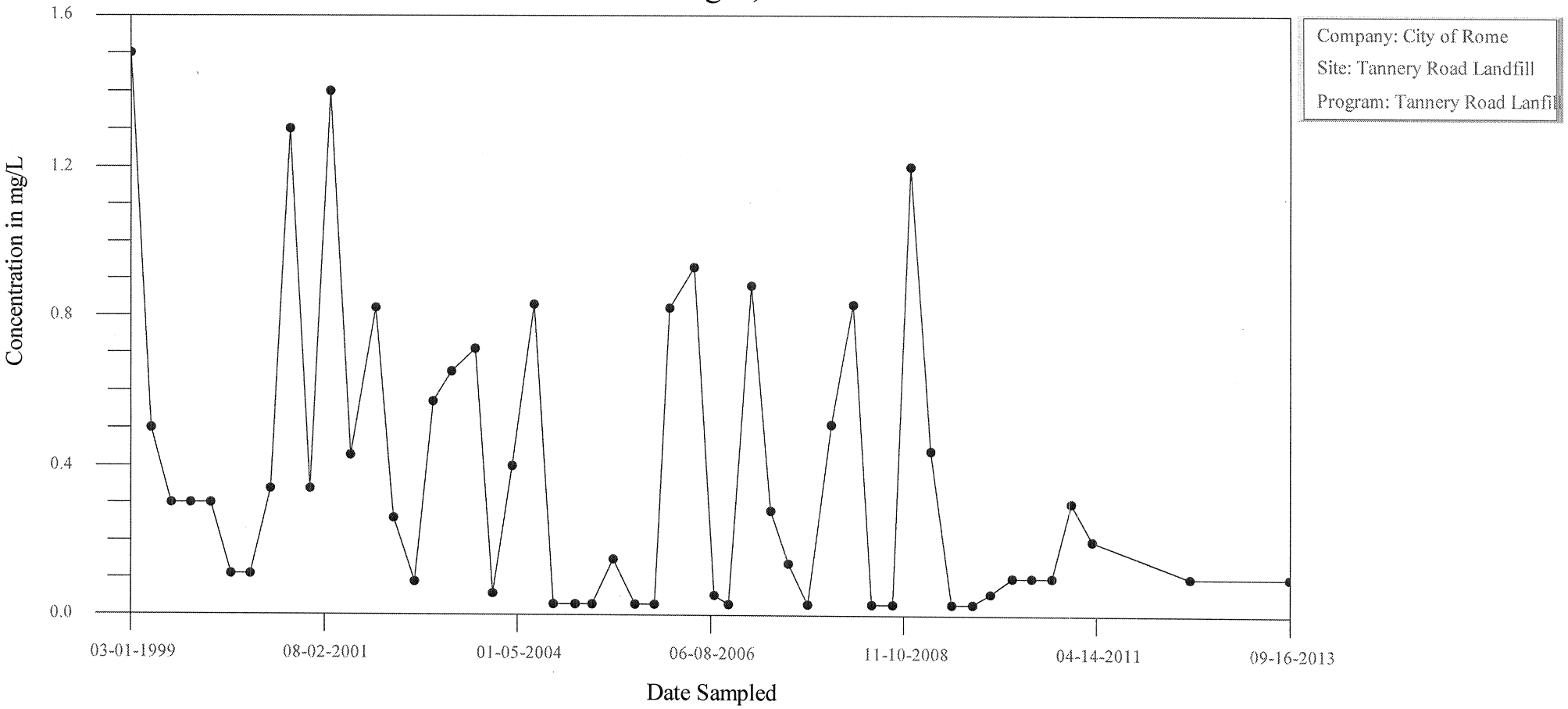
Time-Series Plot

Total Organic Carbon, MW-4S



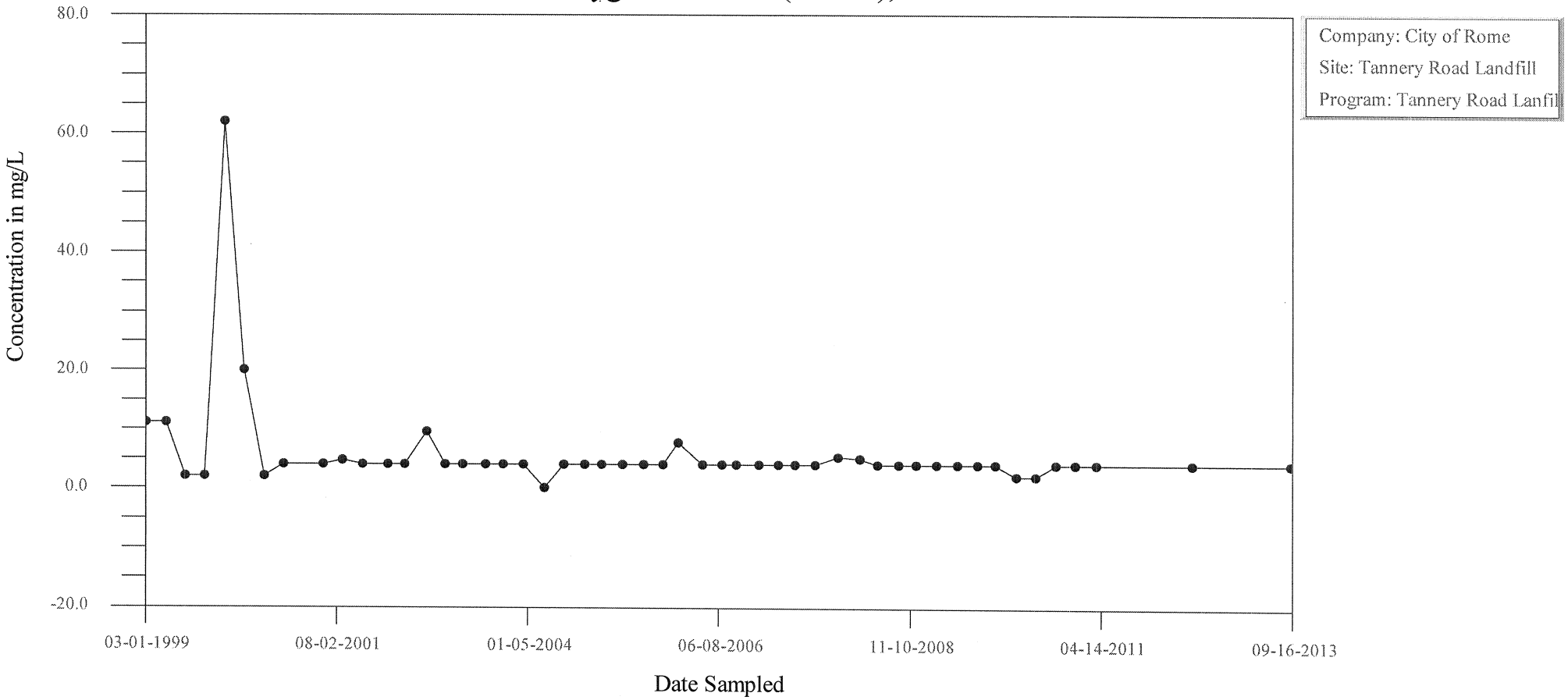
Time-Series Plot

Ammonia-Nitrogen, MW-5S



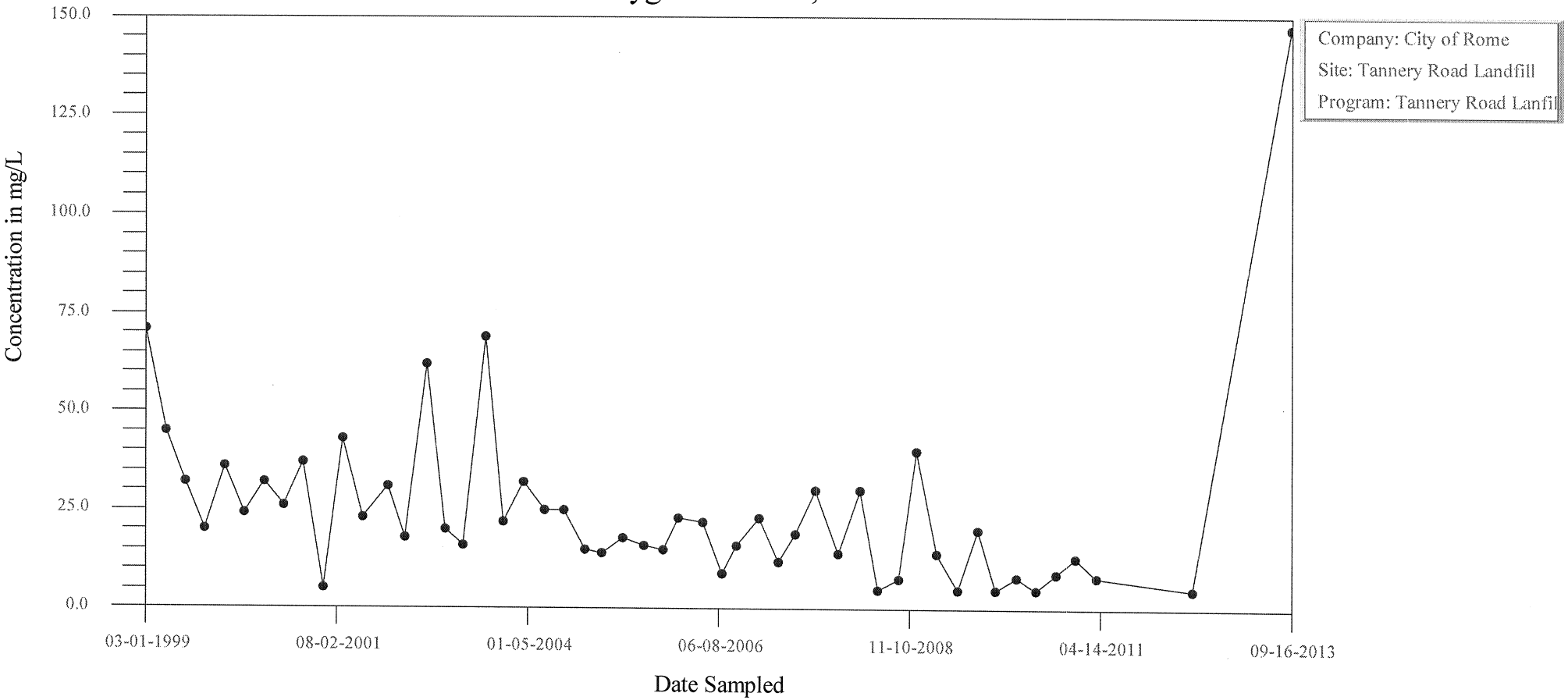
Time-Series Plot

Biochemical Oxygen Demand (BOD5), MW-5S



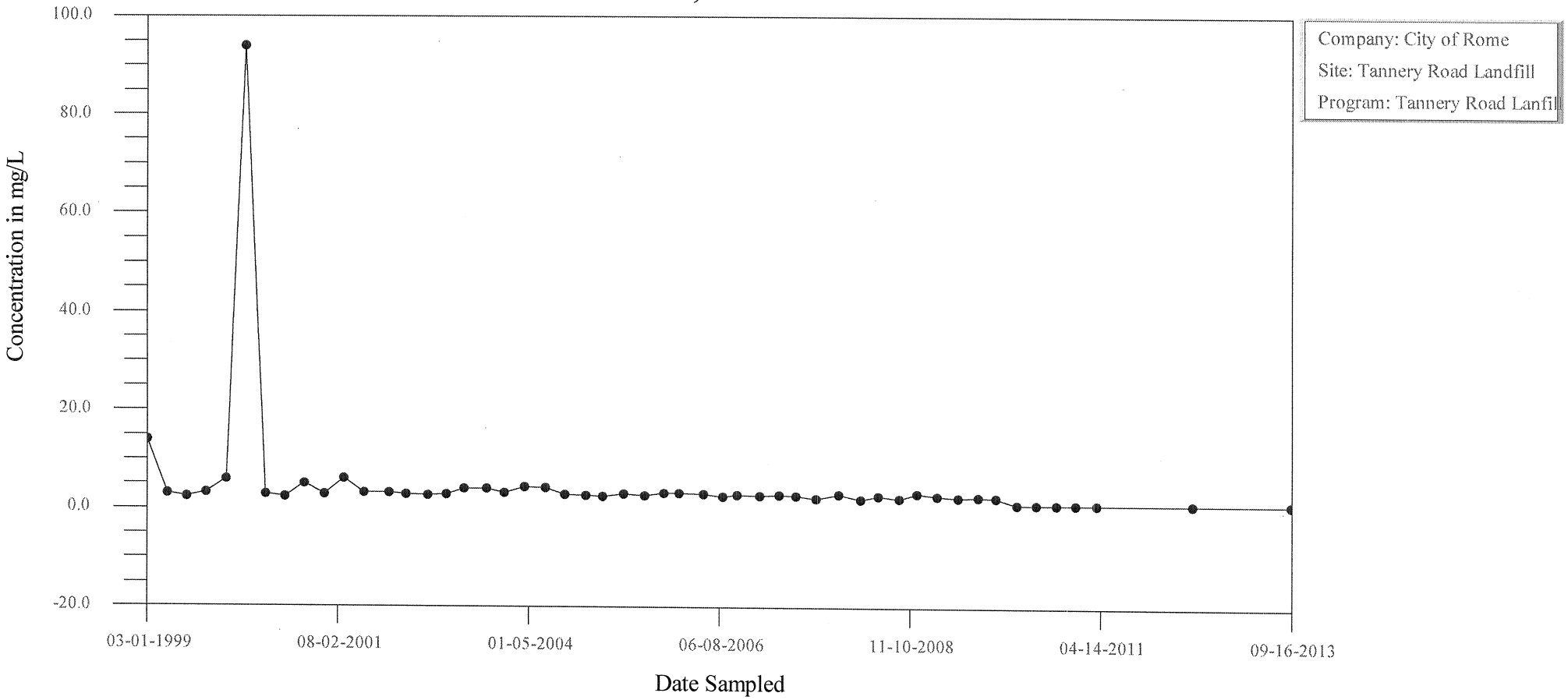
Time-Series Plot

Chemical Oxygen Demand, MW-5S



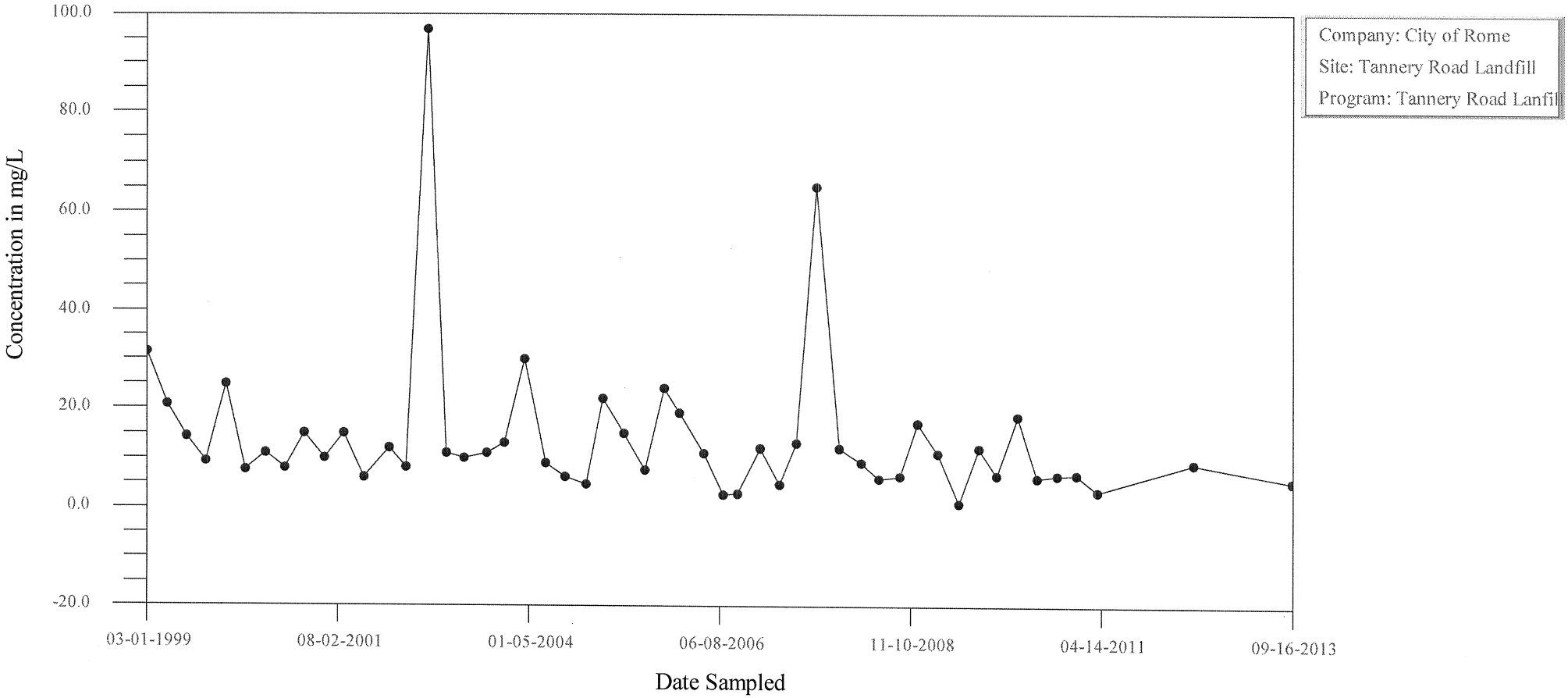
Time-Series Plot

Chloride, MW-5S



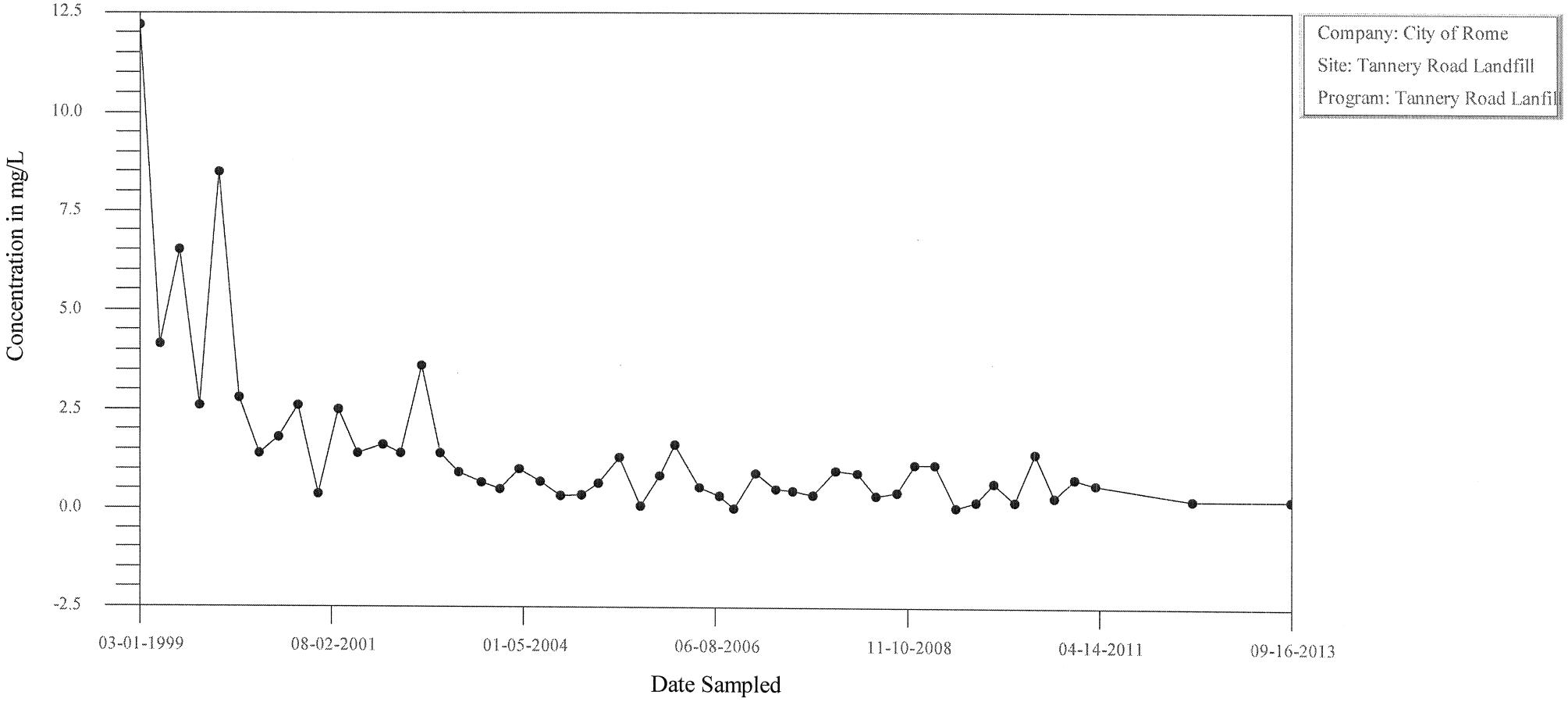
Time-Series Plot

Iron, MW-5S



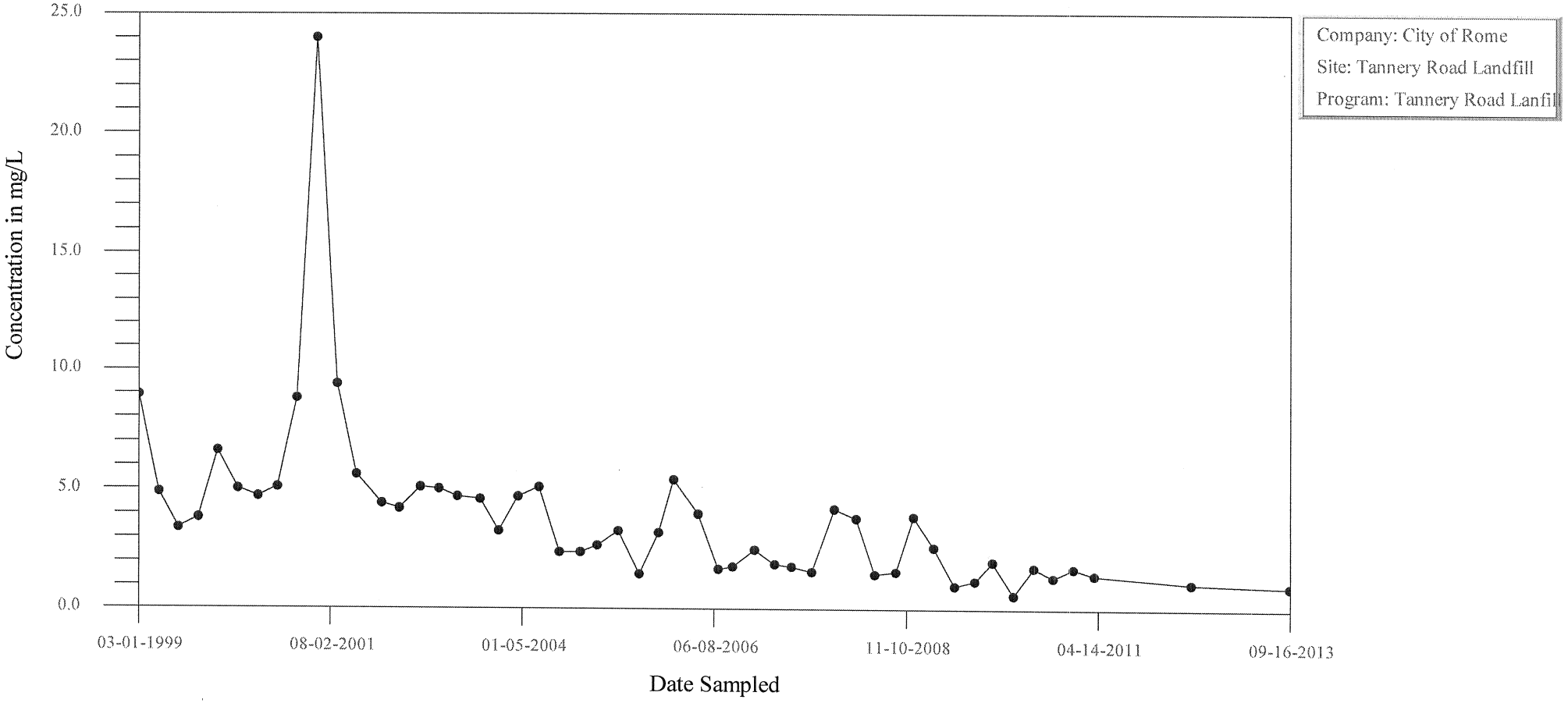
Time-Series Plot

Manganese, MW-5S



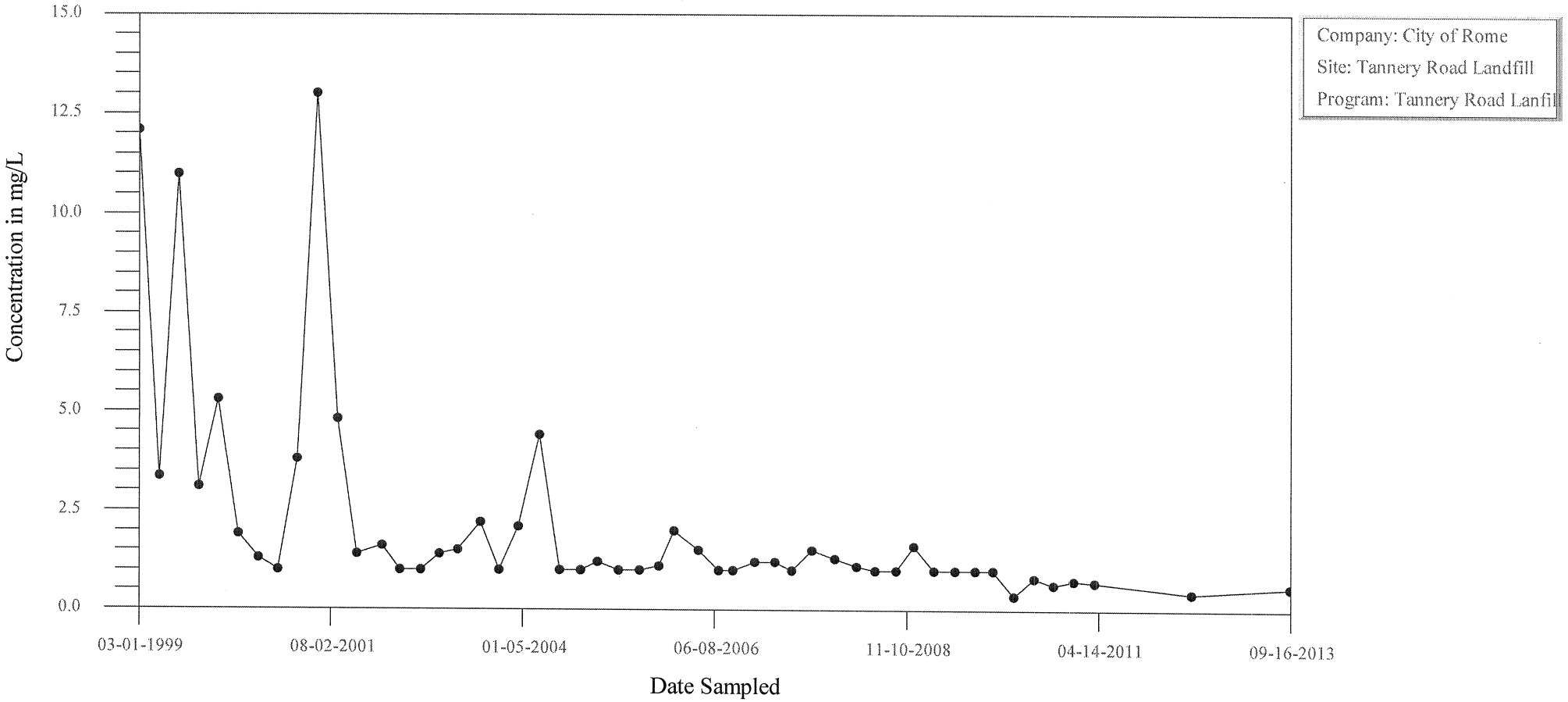
Time-Series Plot

Potassium, MW-5S



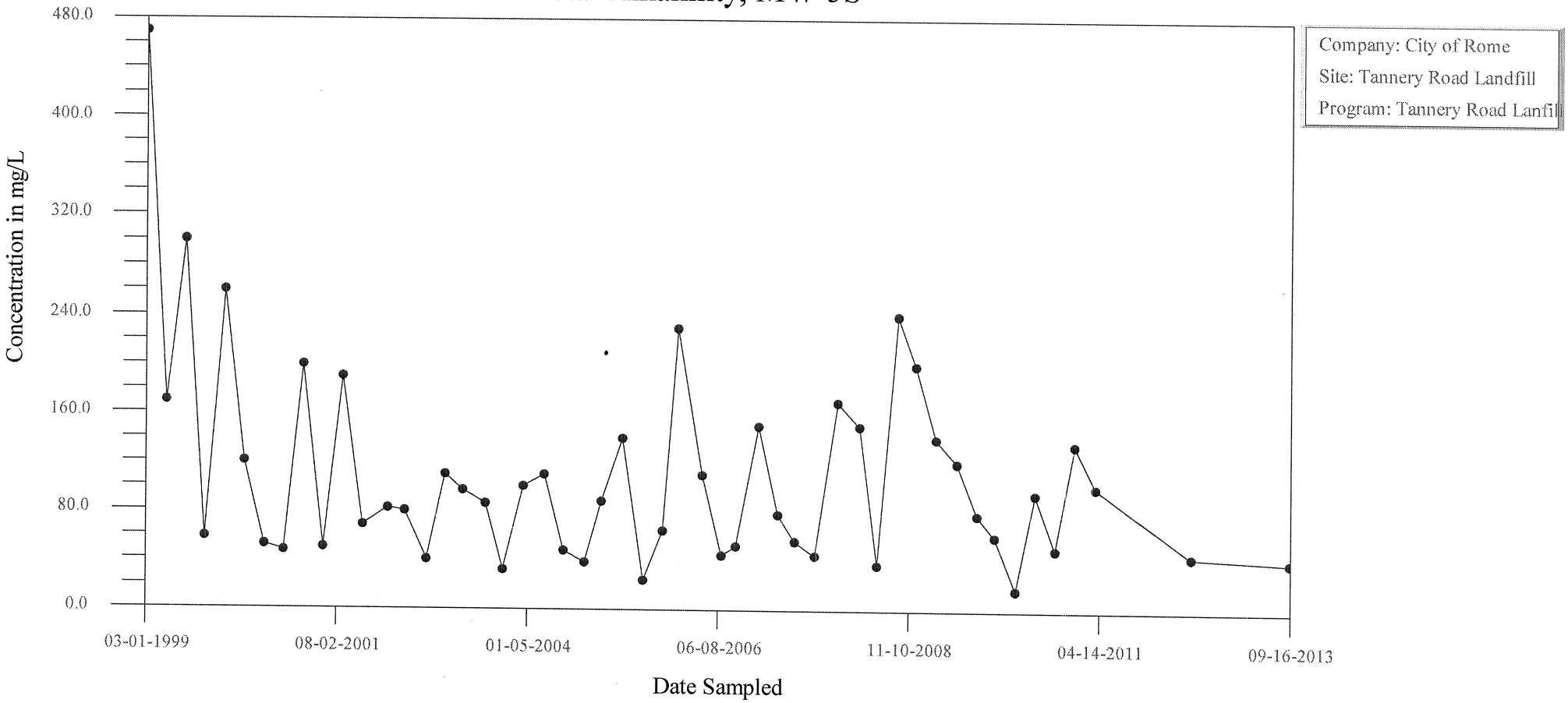
Time-Series Plot

Sodium, MW-5S



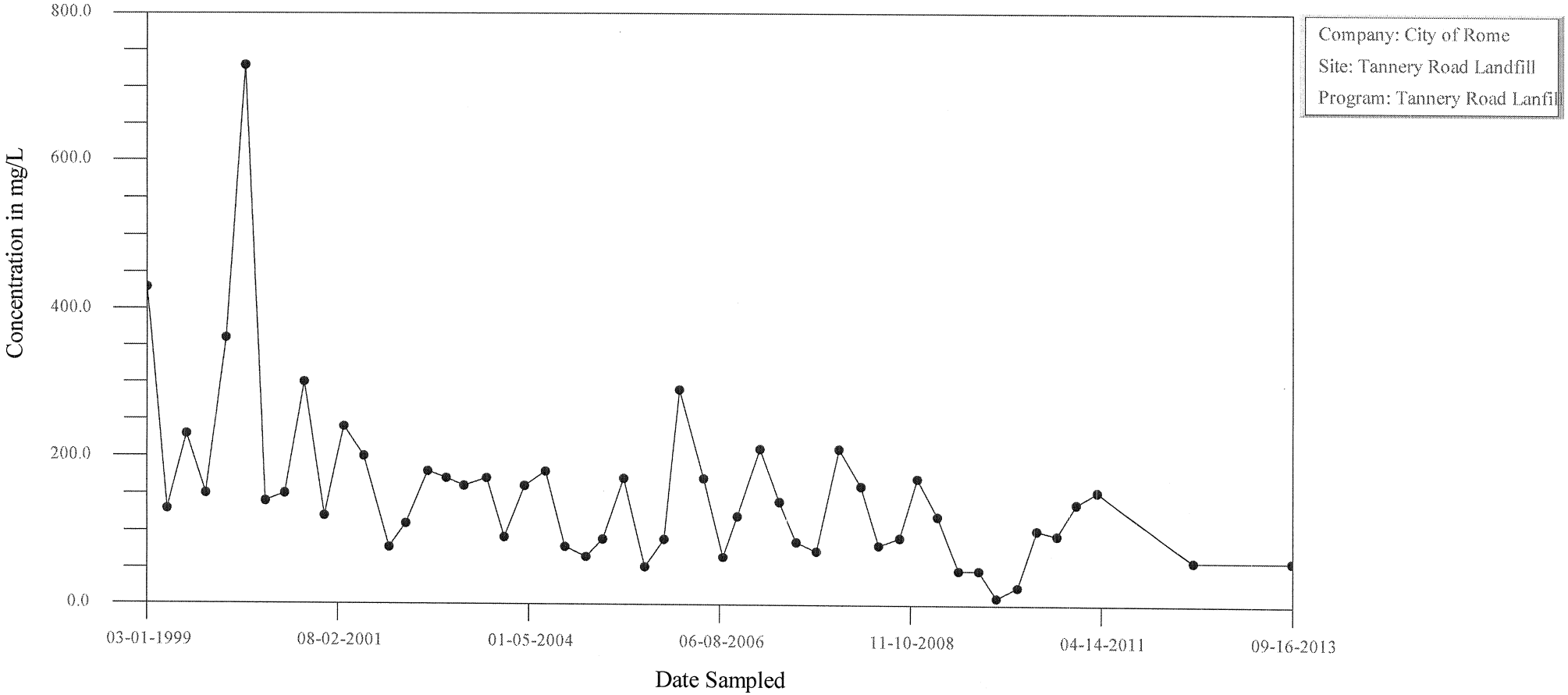
Time-Series Plot

Total Alkalinity, MW-5S



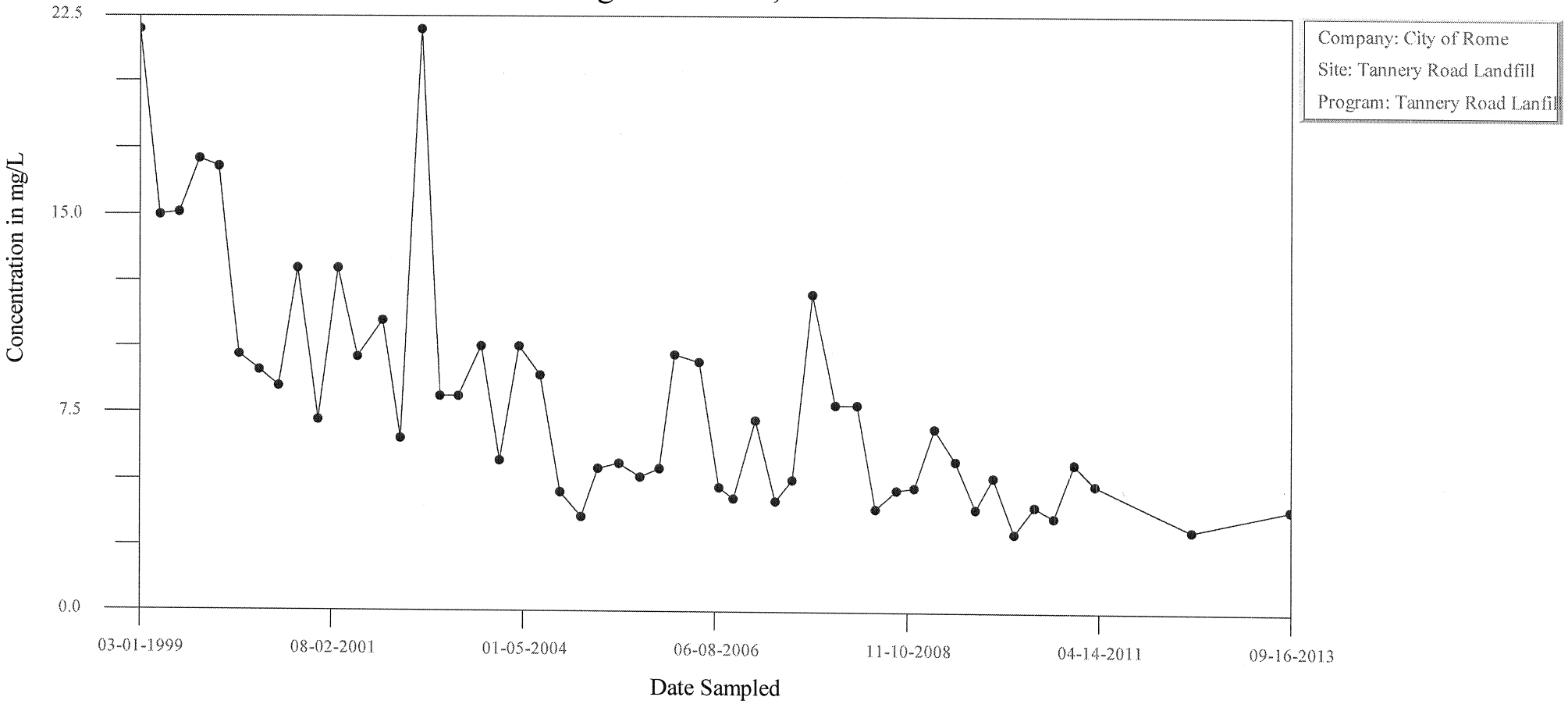
Time-Series Plot

Total Dissolved Solids, MW-5S



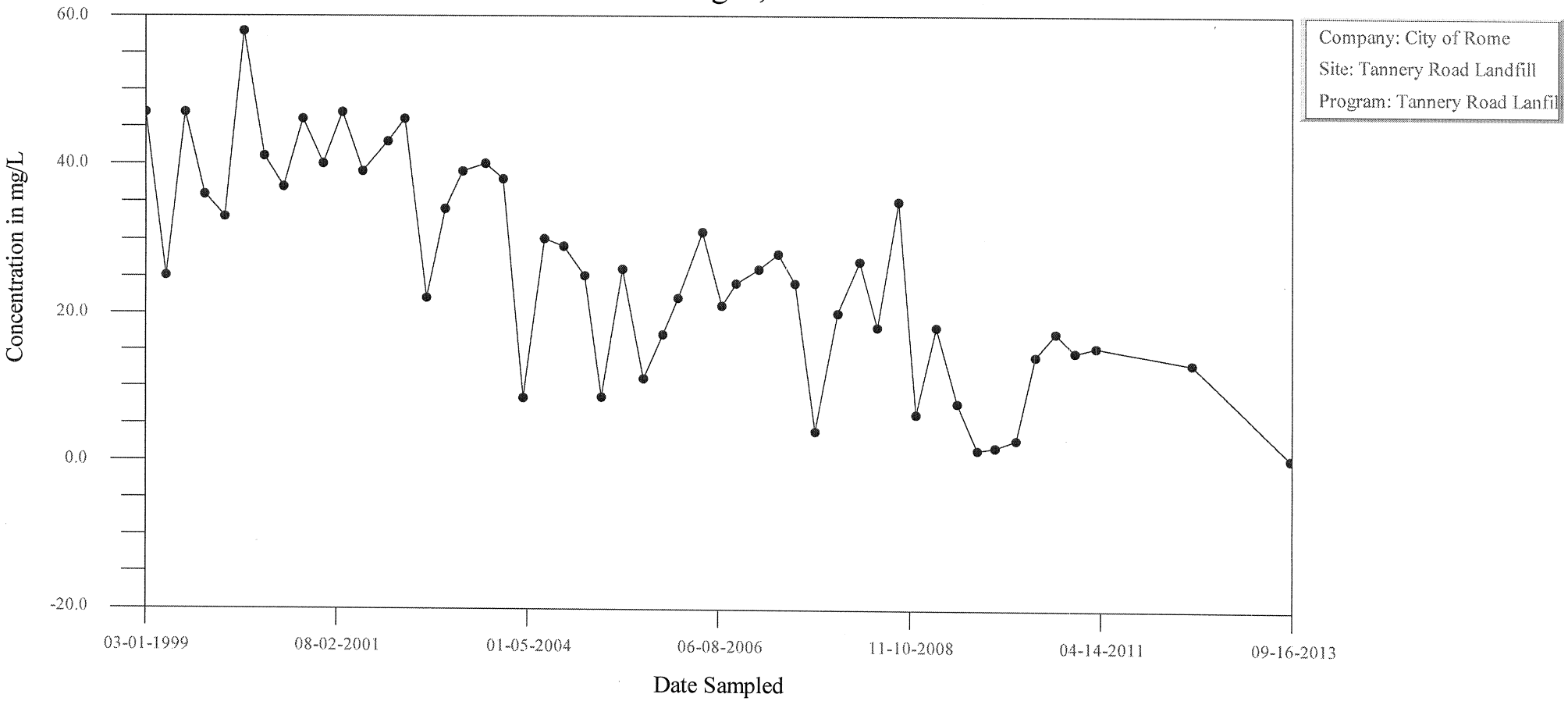
Time-Series Plot

Total Organic Carbon, MW-5S



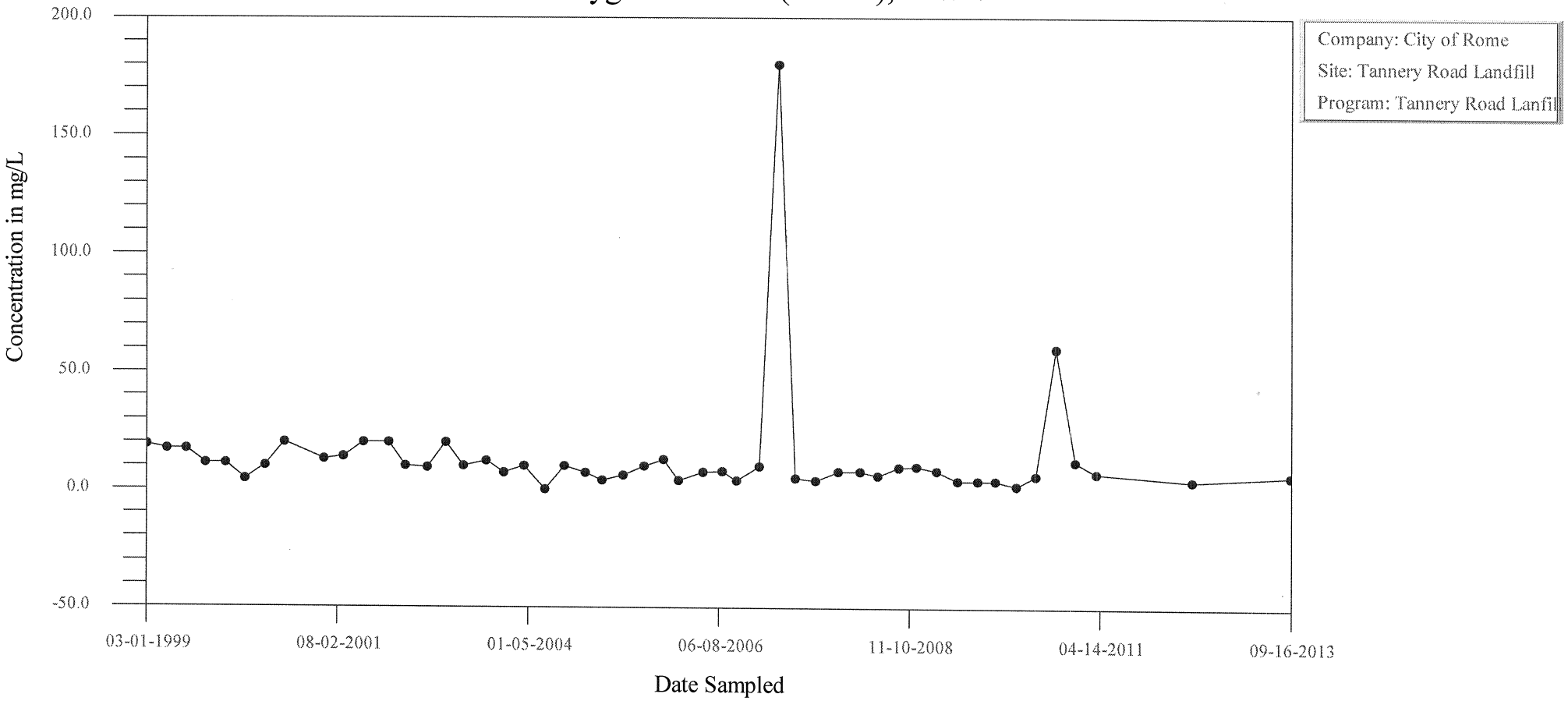
Time-Series Plot

Ammonia-Nitrogen, MW-7D



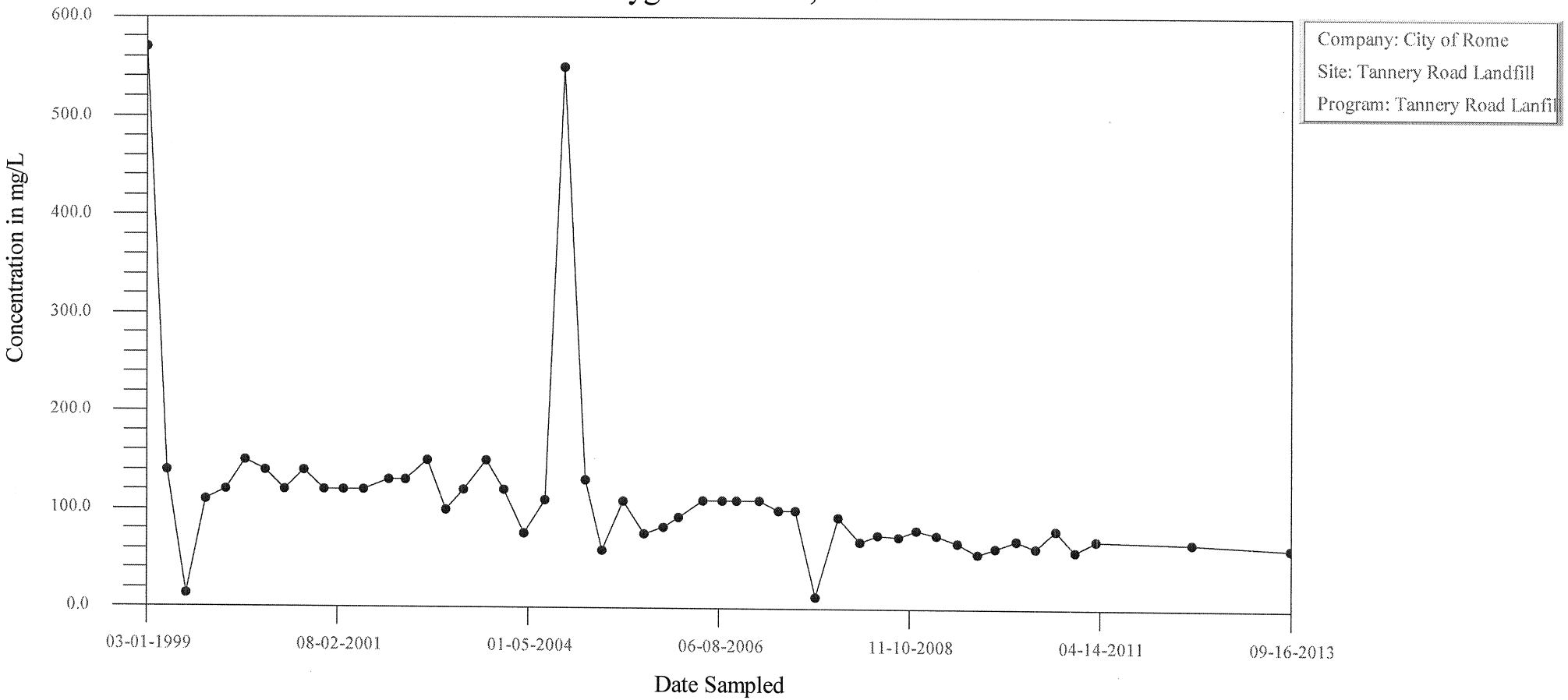
Time-Series Plot

Biochemical Oxygen Demand (BOD5), MW-7D



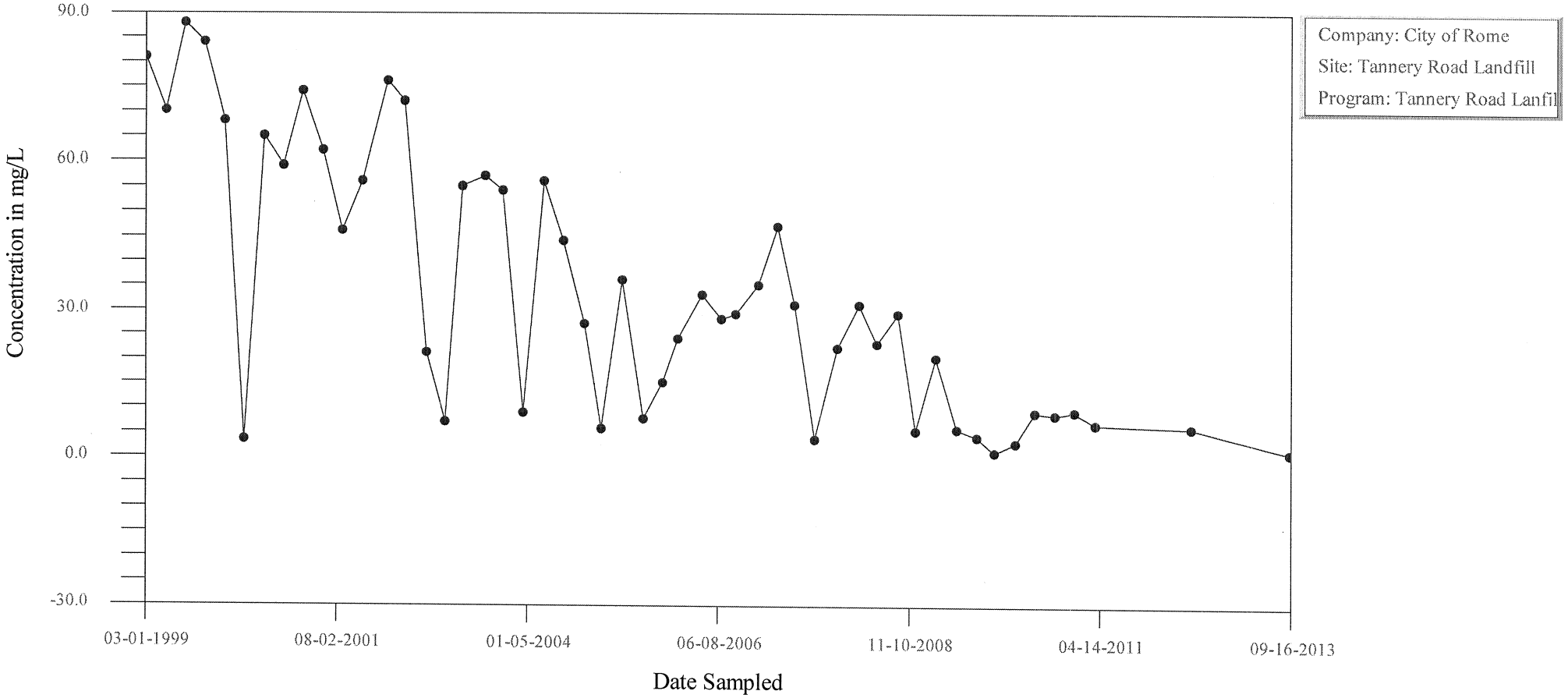
Time-Series Plot

Chemical Oxygen Demand, MW-7D



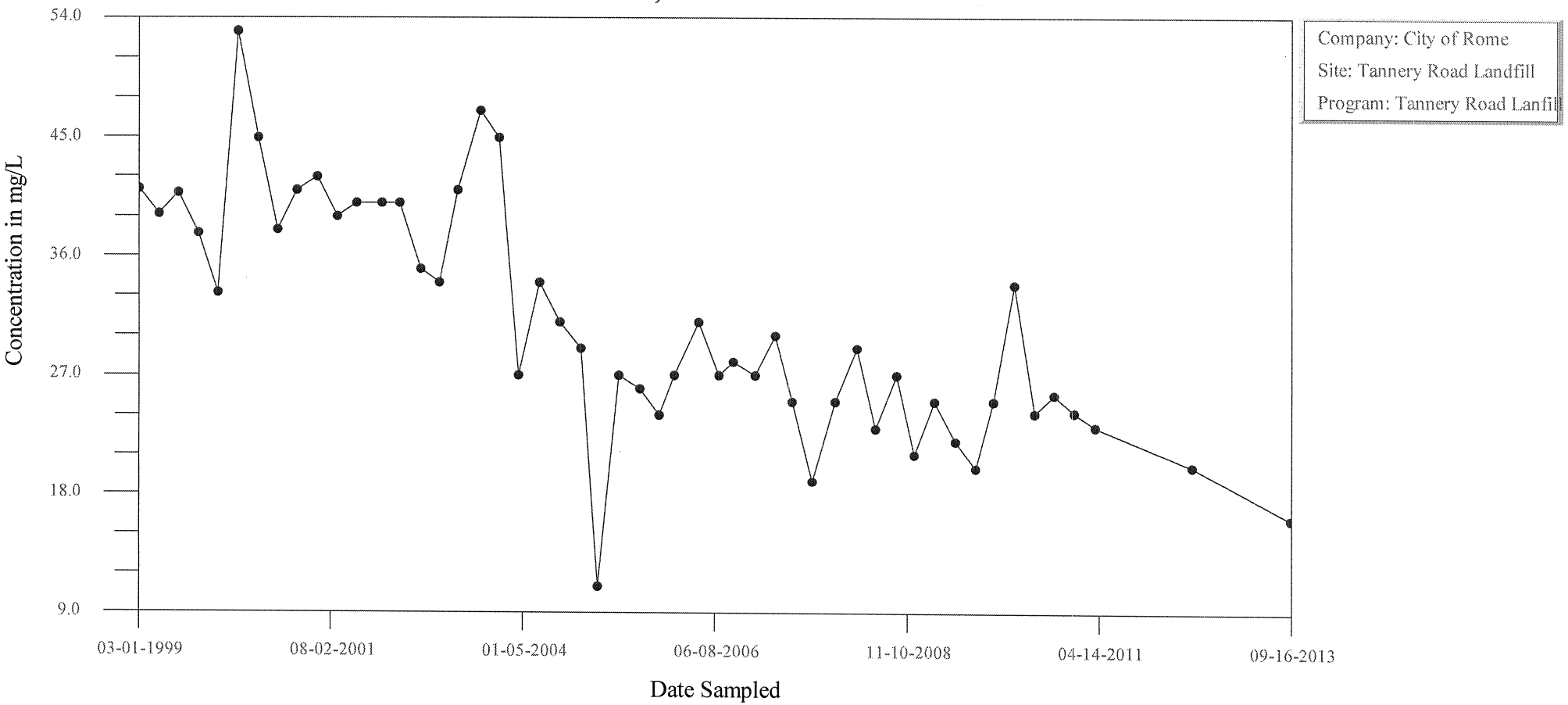
Time-Series Plot

Chloride, MW-7D



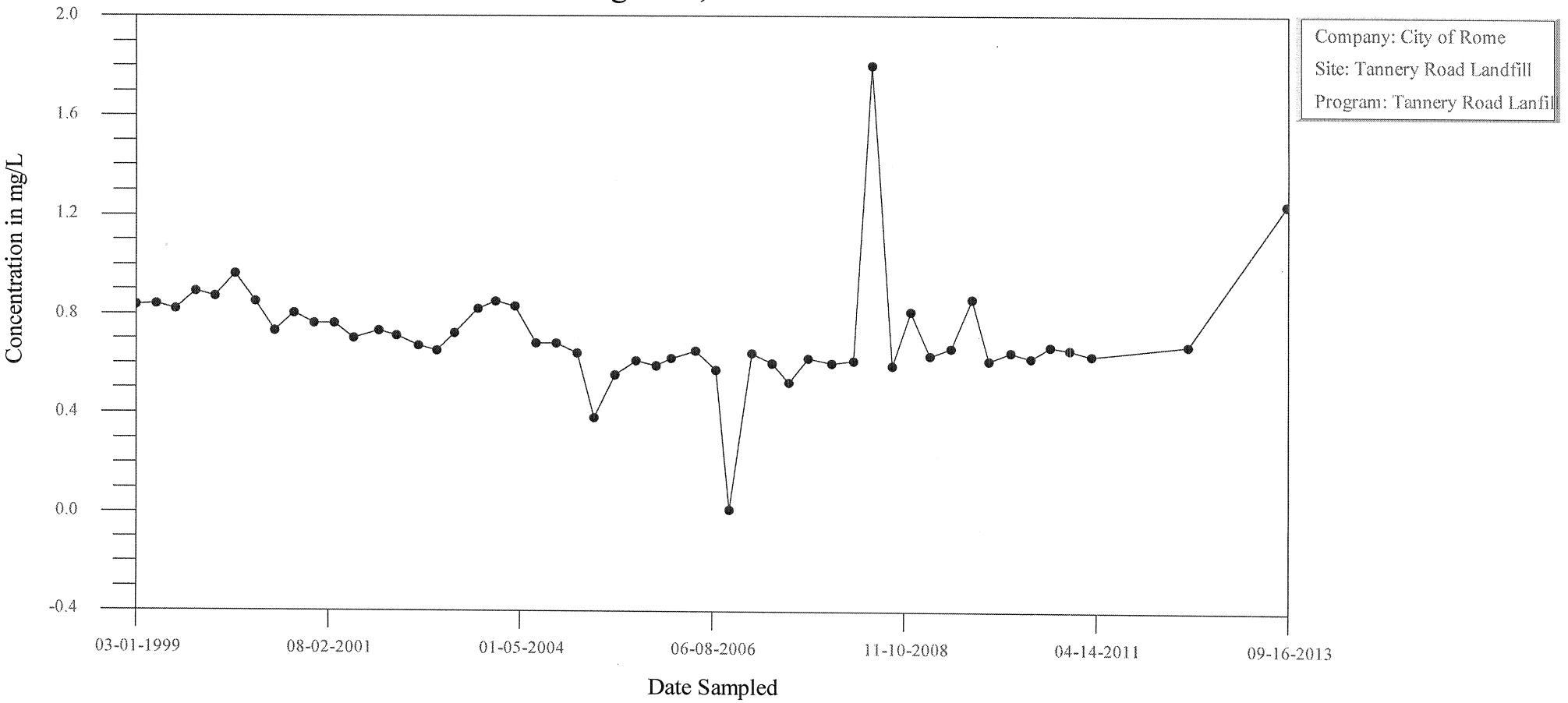
Time-Series Plot

Iron, MW-7D



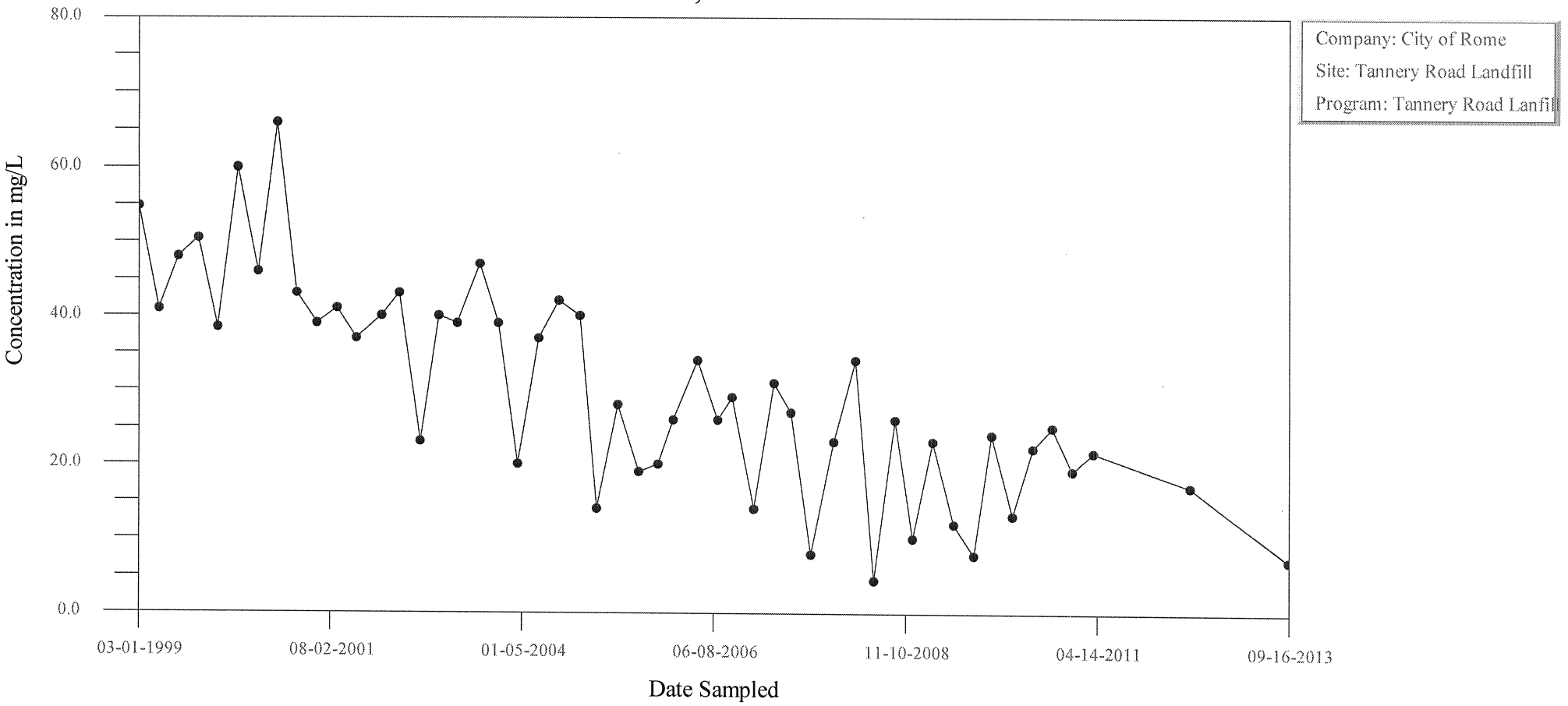
Time-Series Plot

Manganese, MW-7D



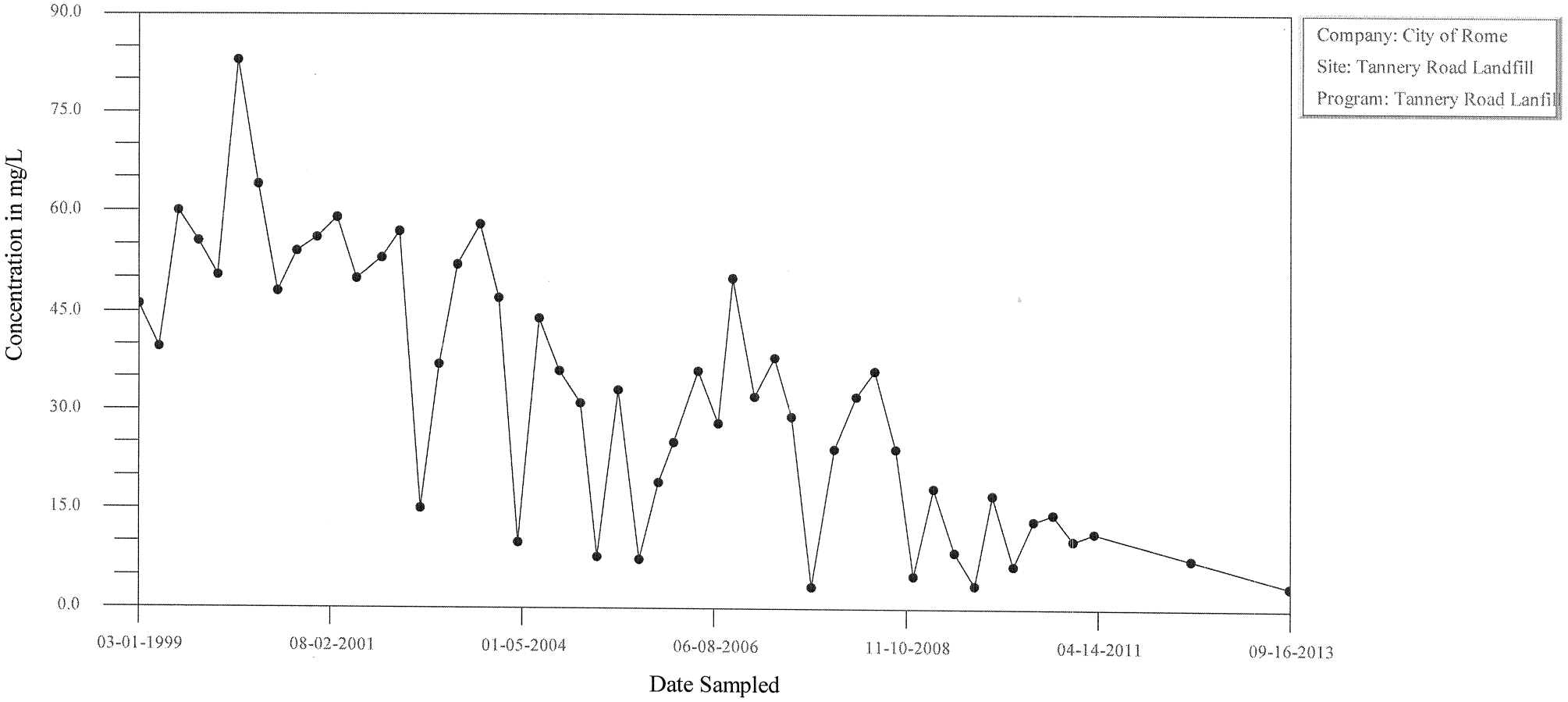
Time-Series Plot

Potassium, MW-7D



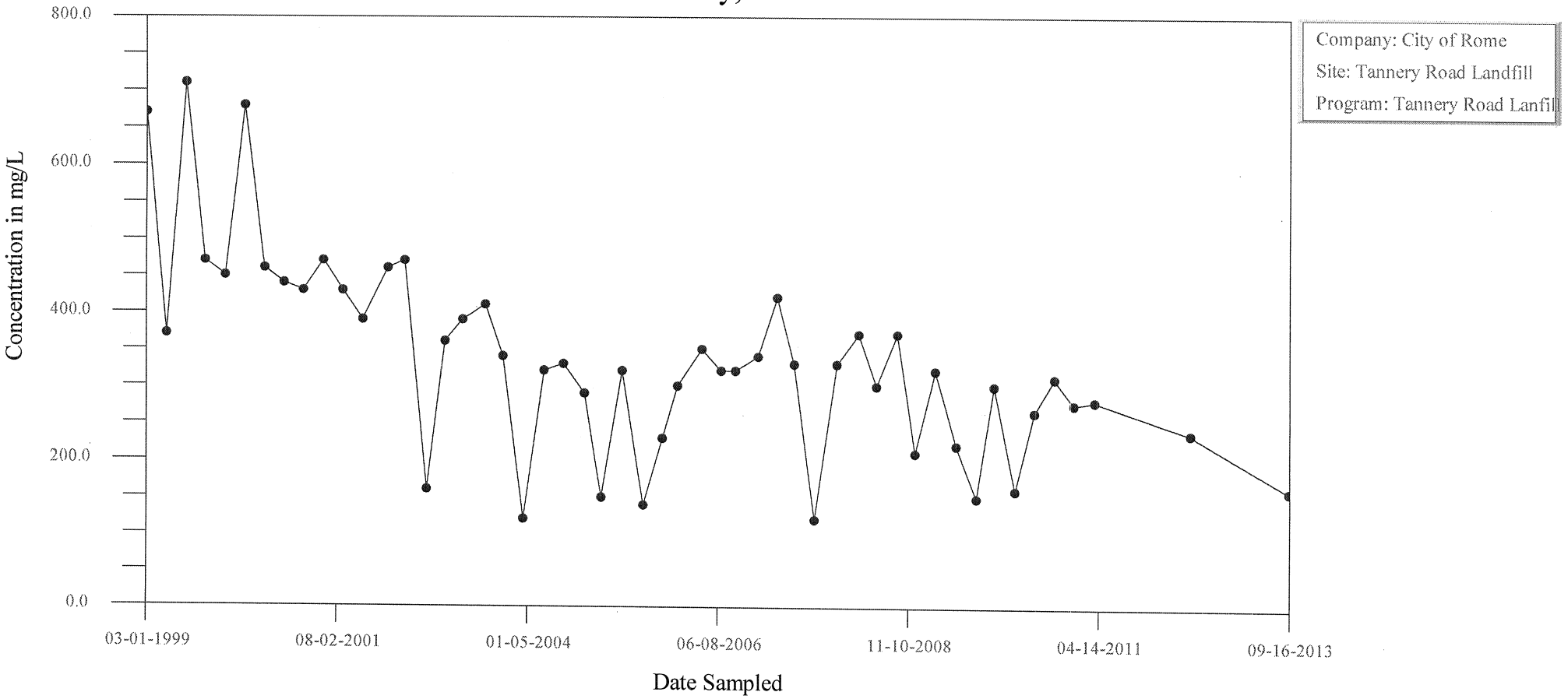
Time-Series Plot

Sodium, MW-7D



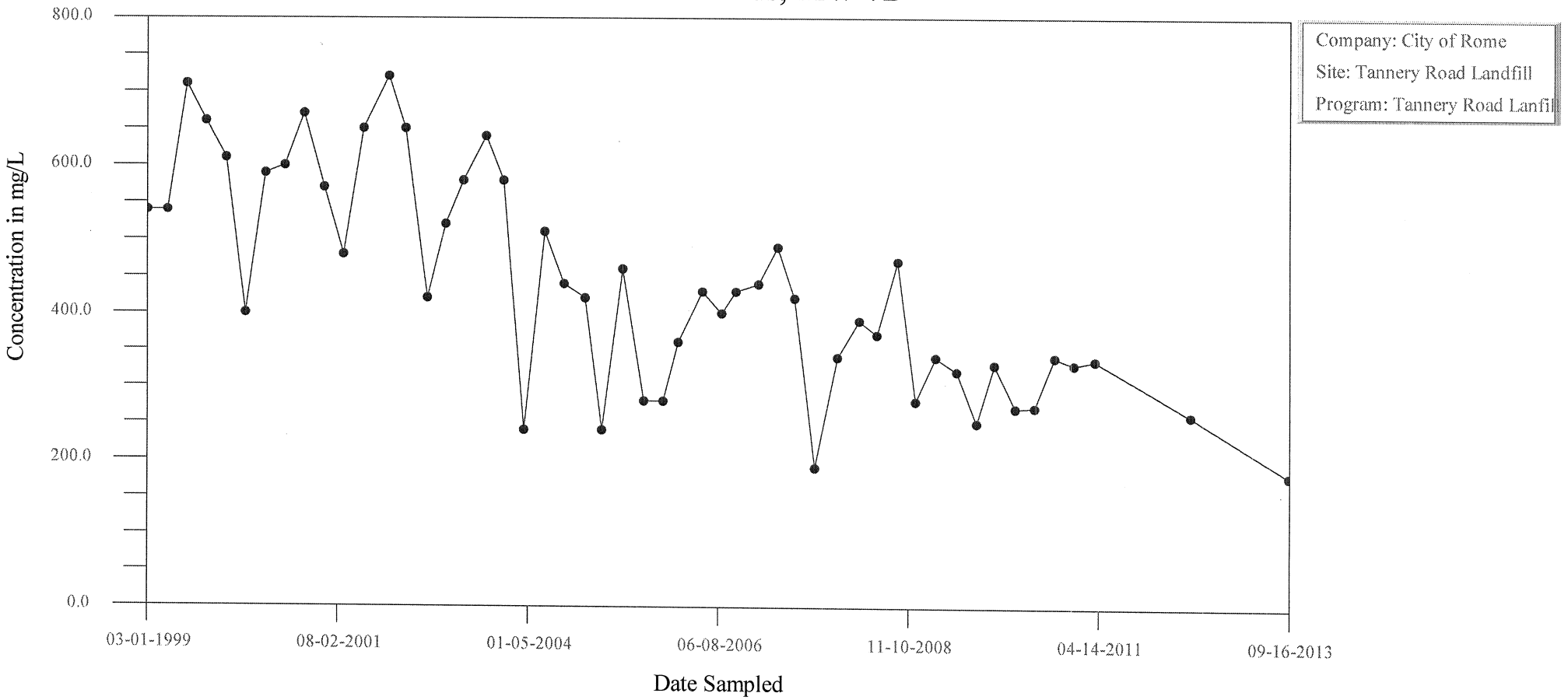
Time-Series Plot

Total Alkalinity, MW-7D



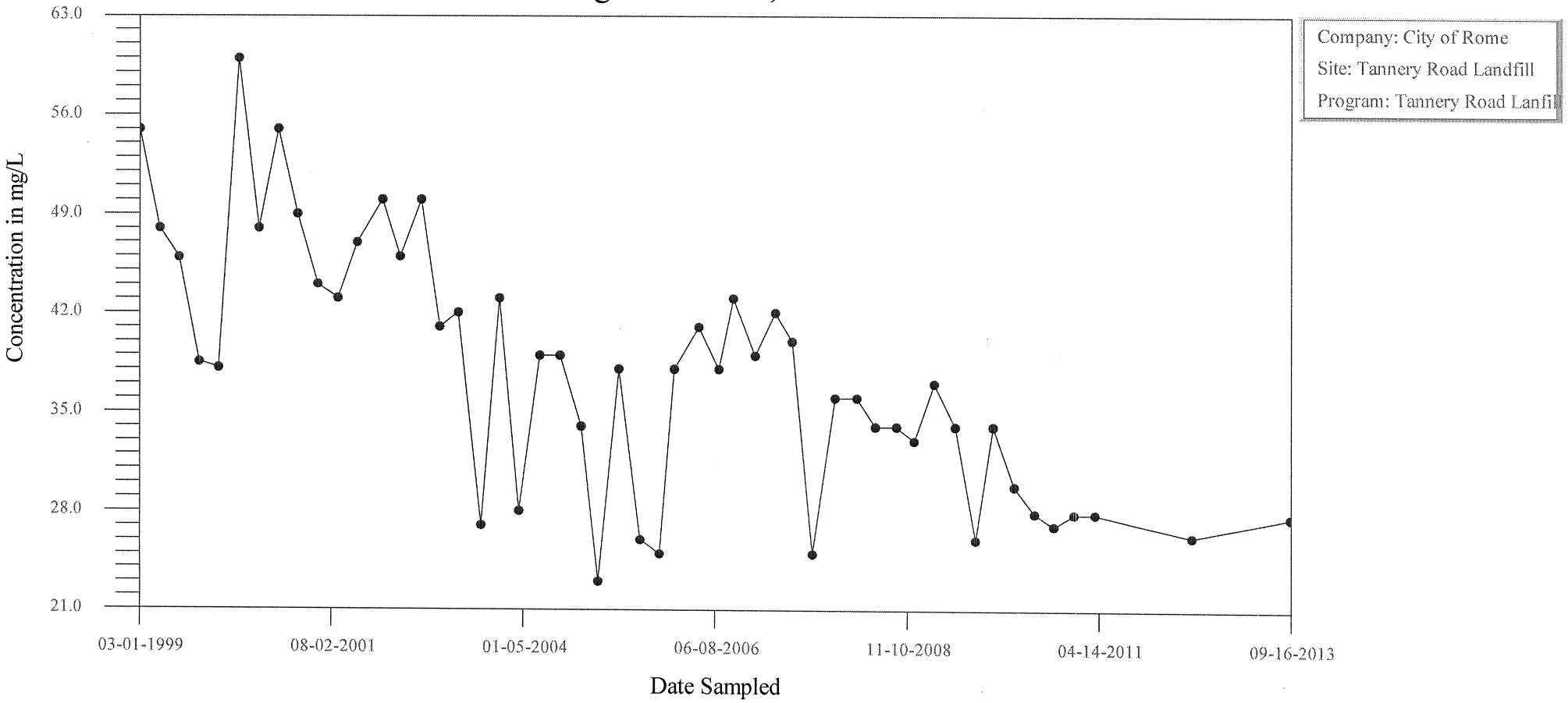
Time-Series Plot

Total Dissolved Solids, MW-7D



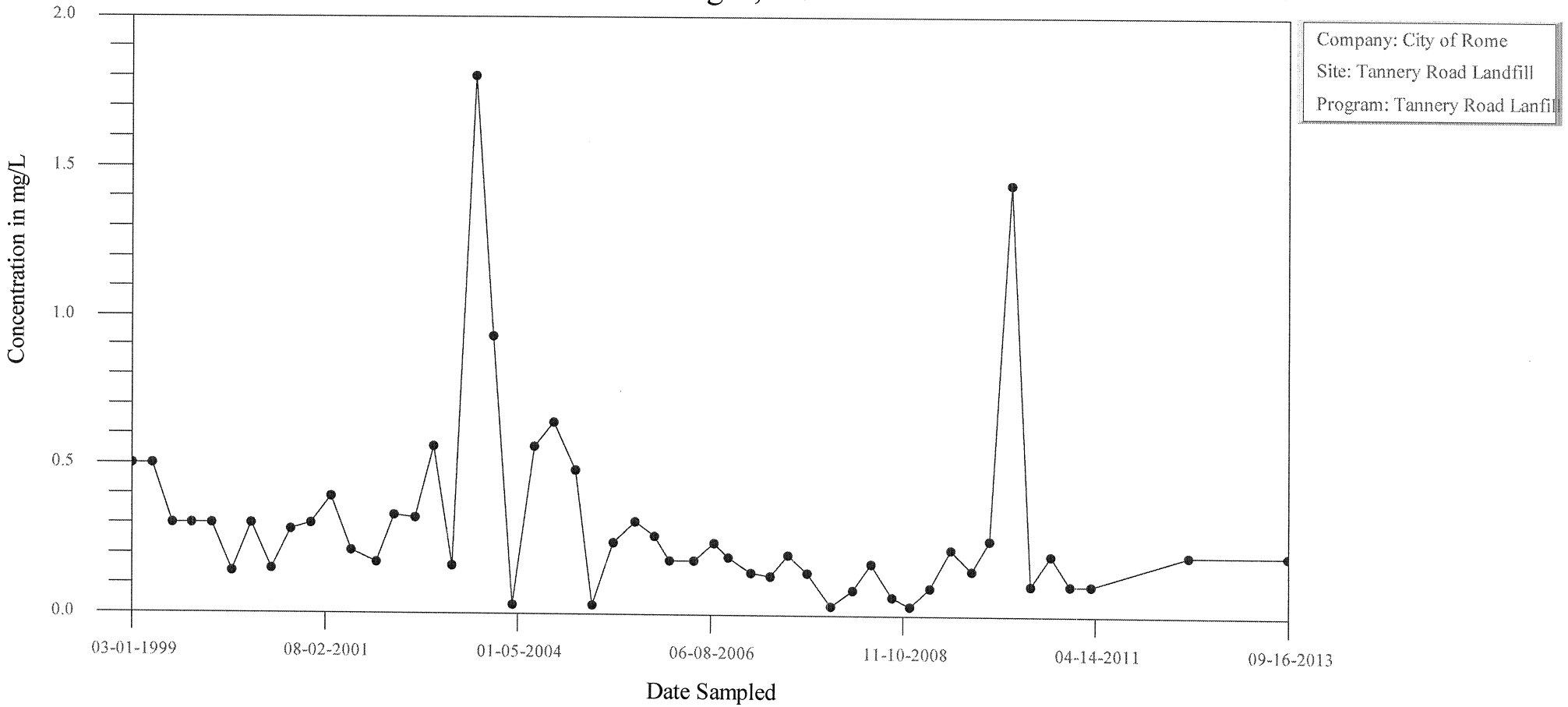
Time-Series Plot

Total Organic Carbon, MW-7D



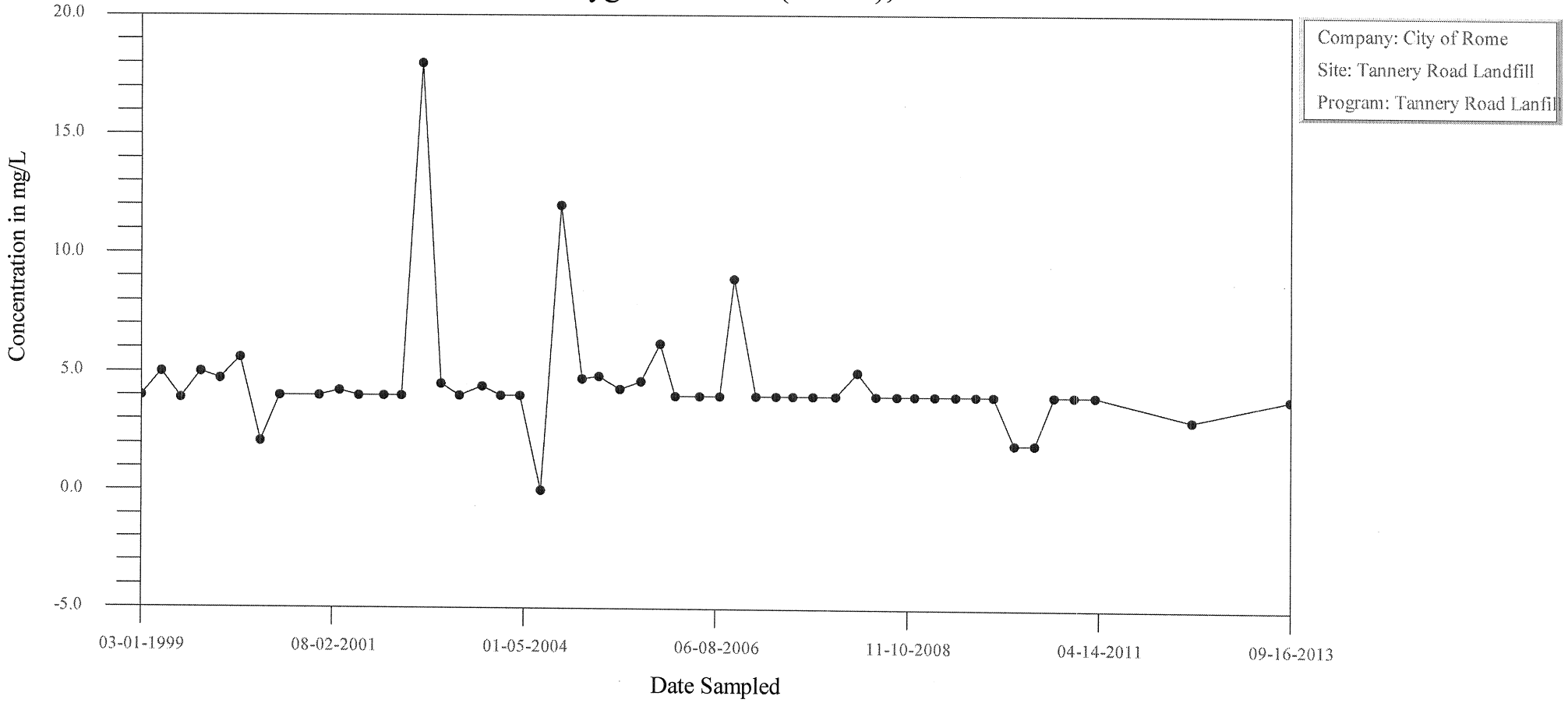
Time-Series Plot

Ammonia-Nitrogen, MW-9S



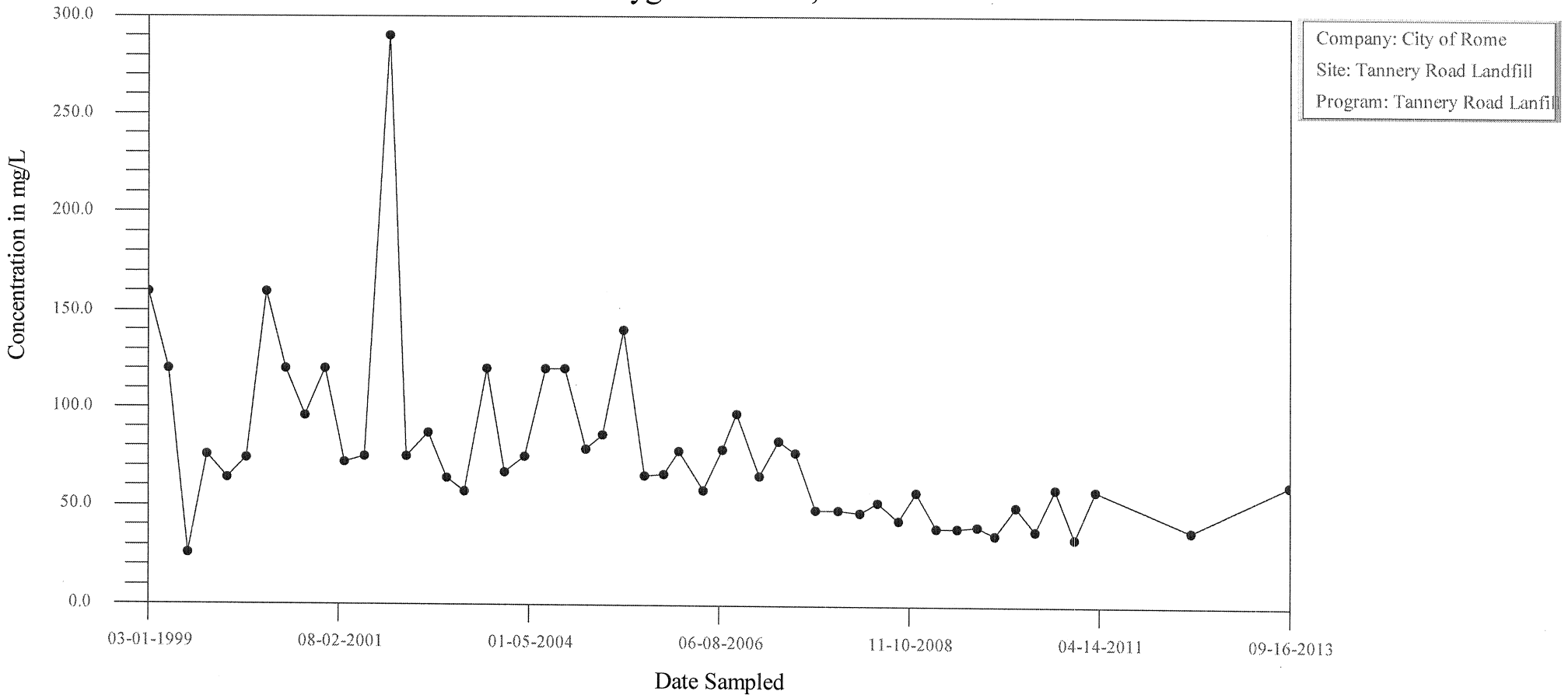
Time-Series Plot

Biochemical Oxygen Demand (BOD5), MW-9S



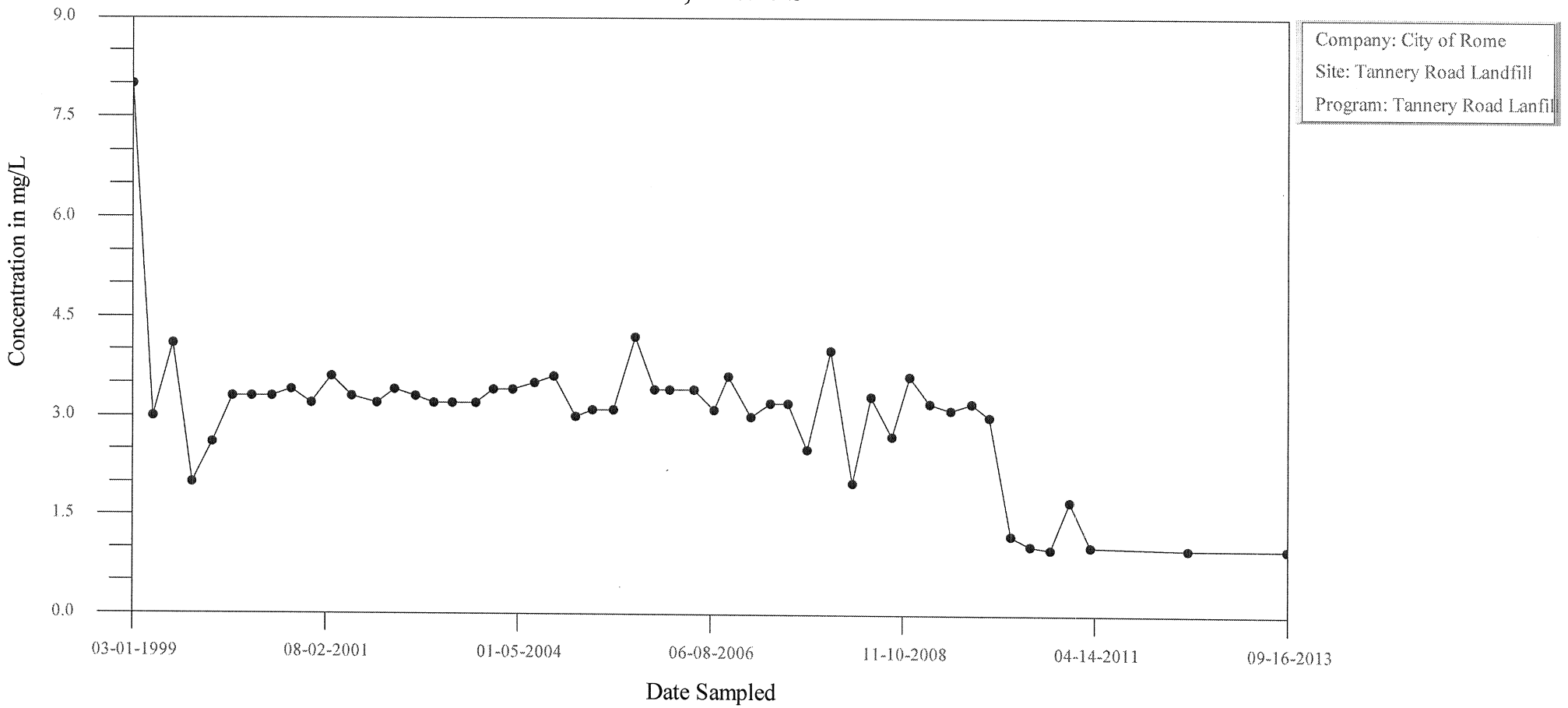
Time-Series Plot

Chemical Oxygen Demand, MW-9S



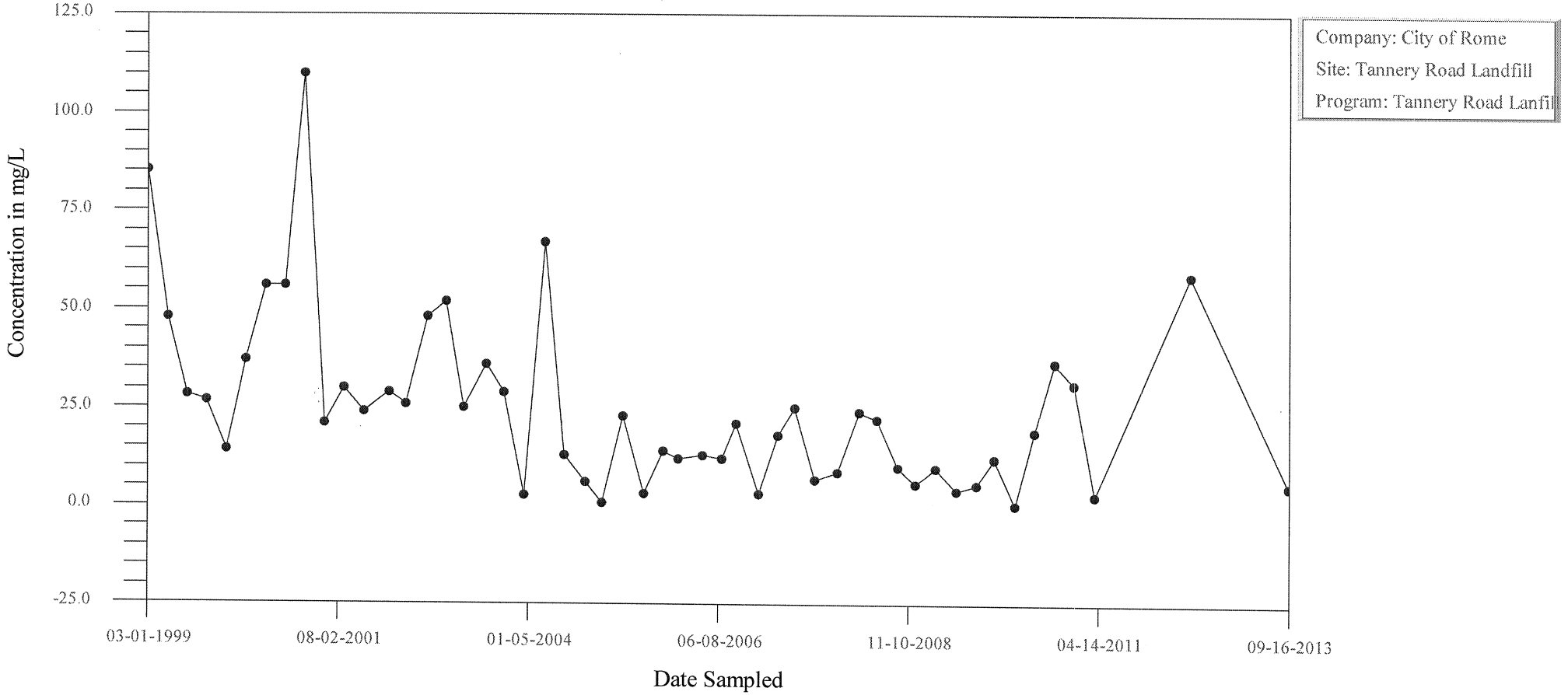
Time-Series Plot

Chloride, MW-9S



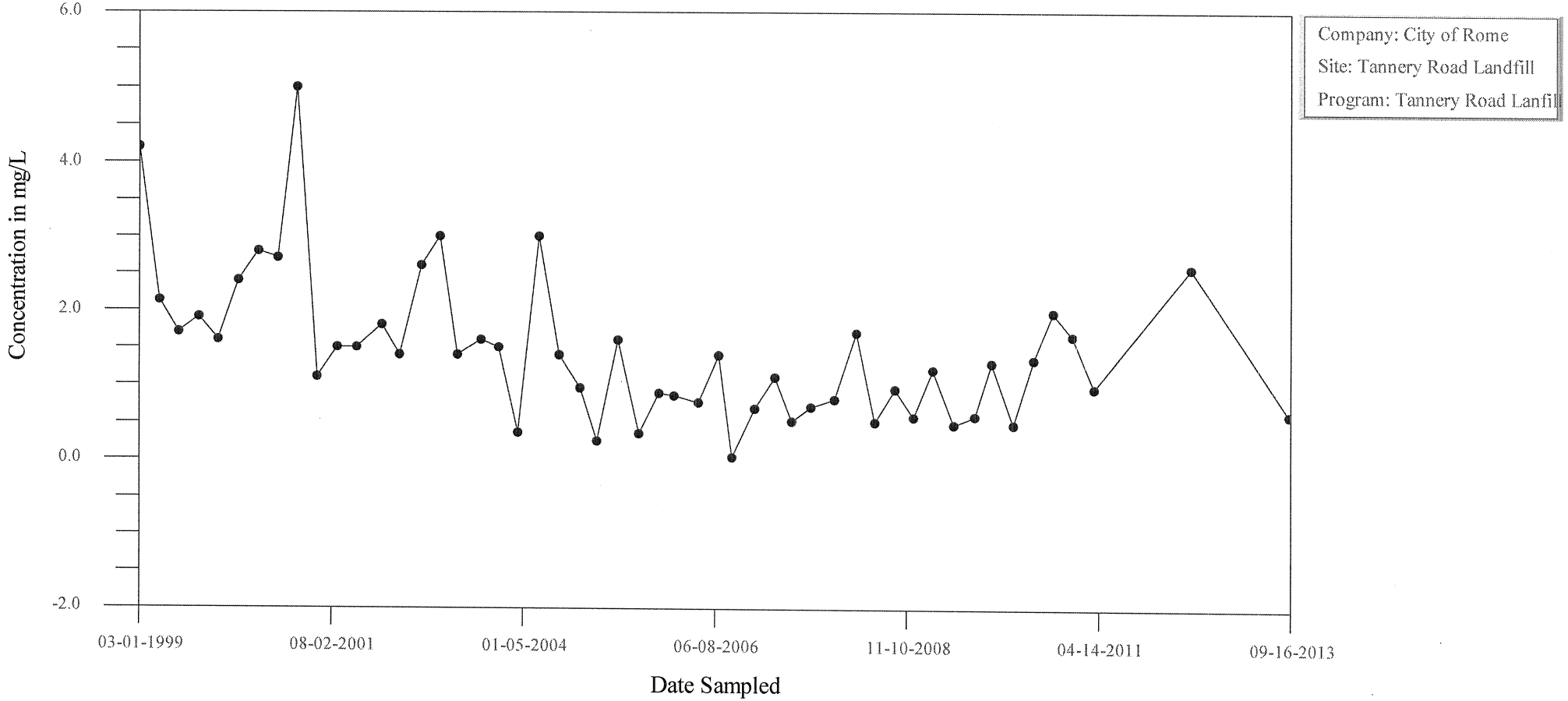
Time-Series Plot

Iron, MW-9S



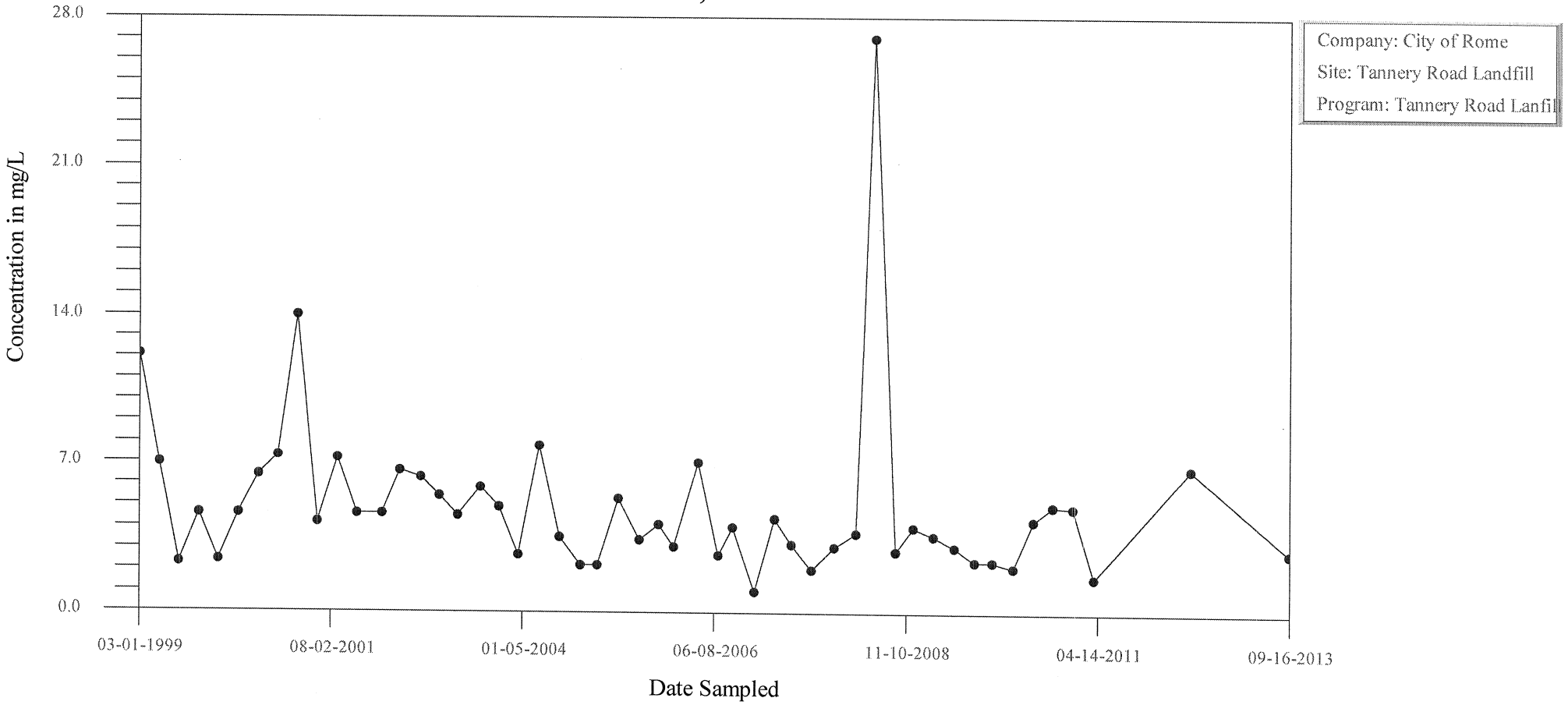
Time-Series Plot

Manganese, MW-9S



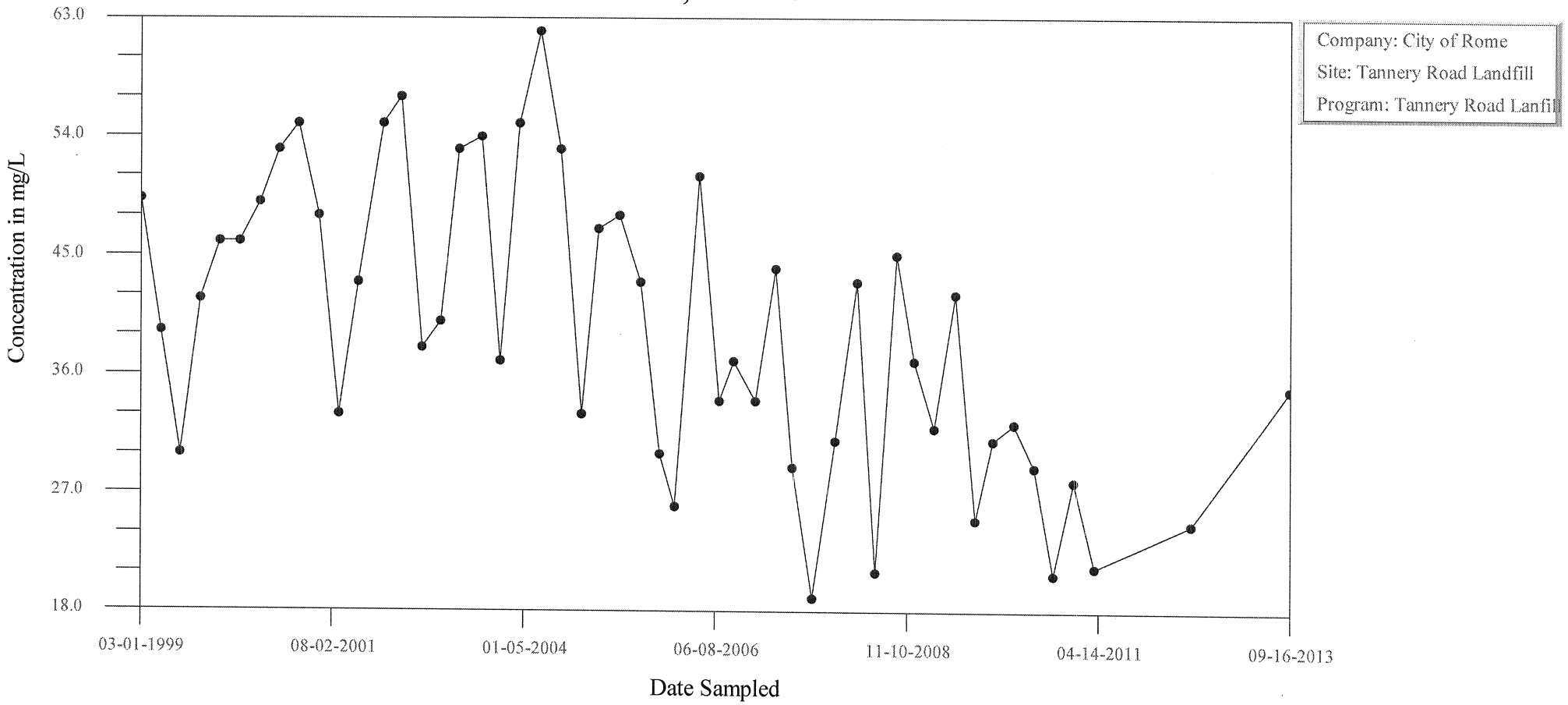
Time-Series Plot

Potassium, MW-9S



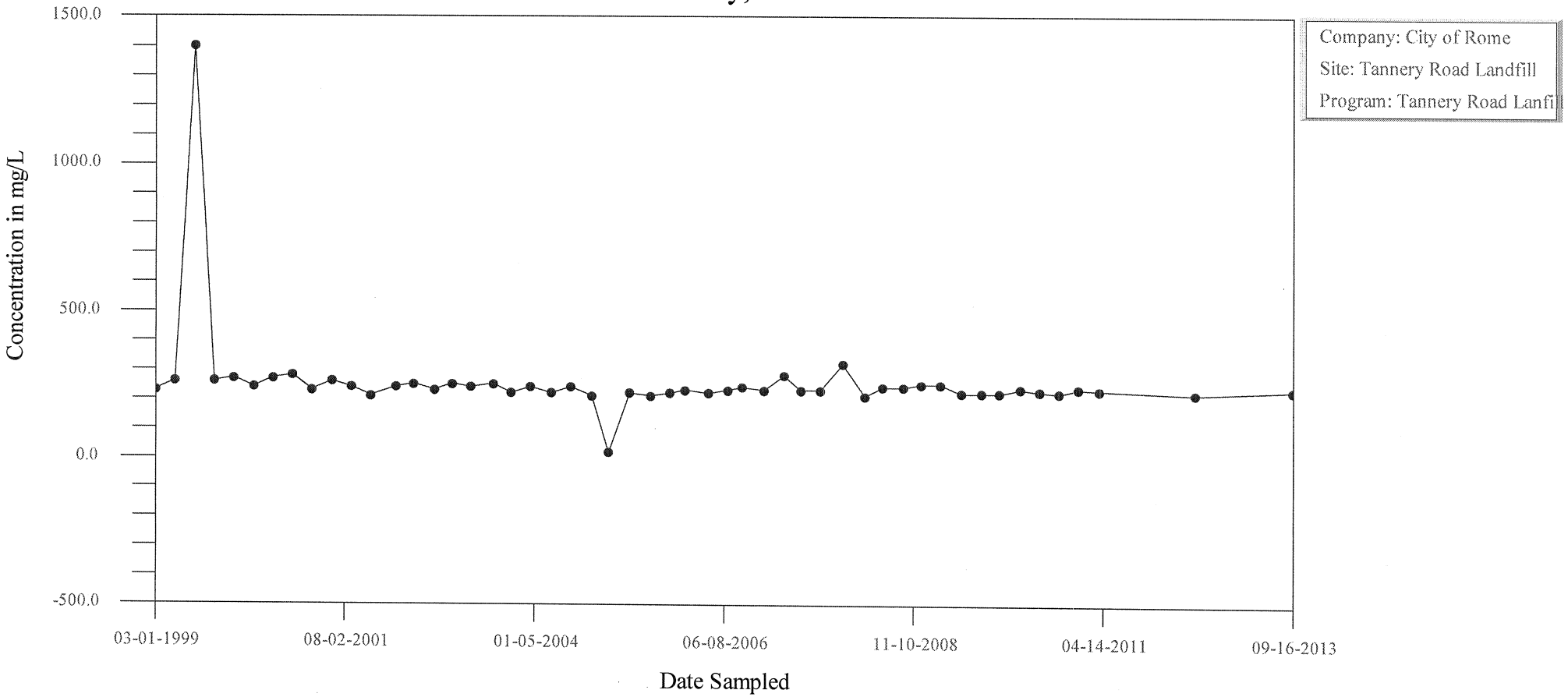
Time-Series Plot

Sodium, MW-9S



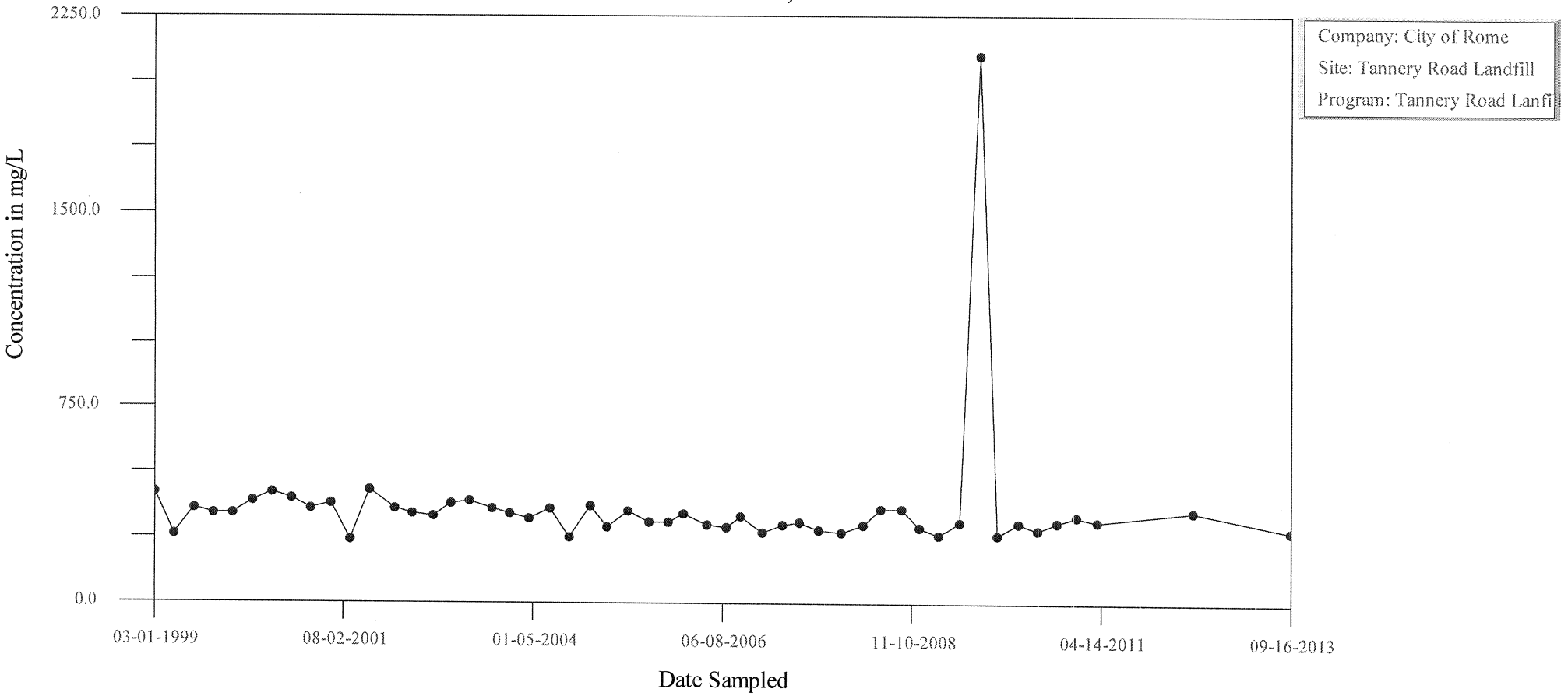
Time-Series Plot

Total Alkalinity, MW-9S



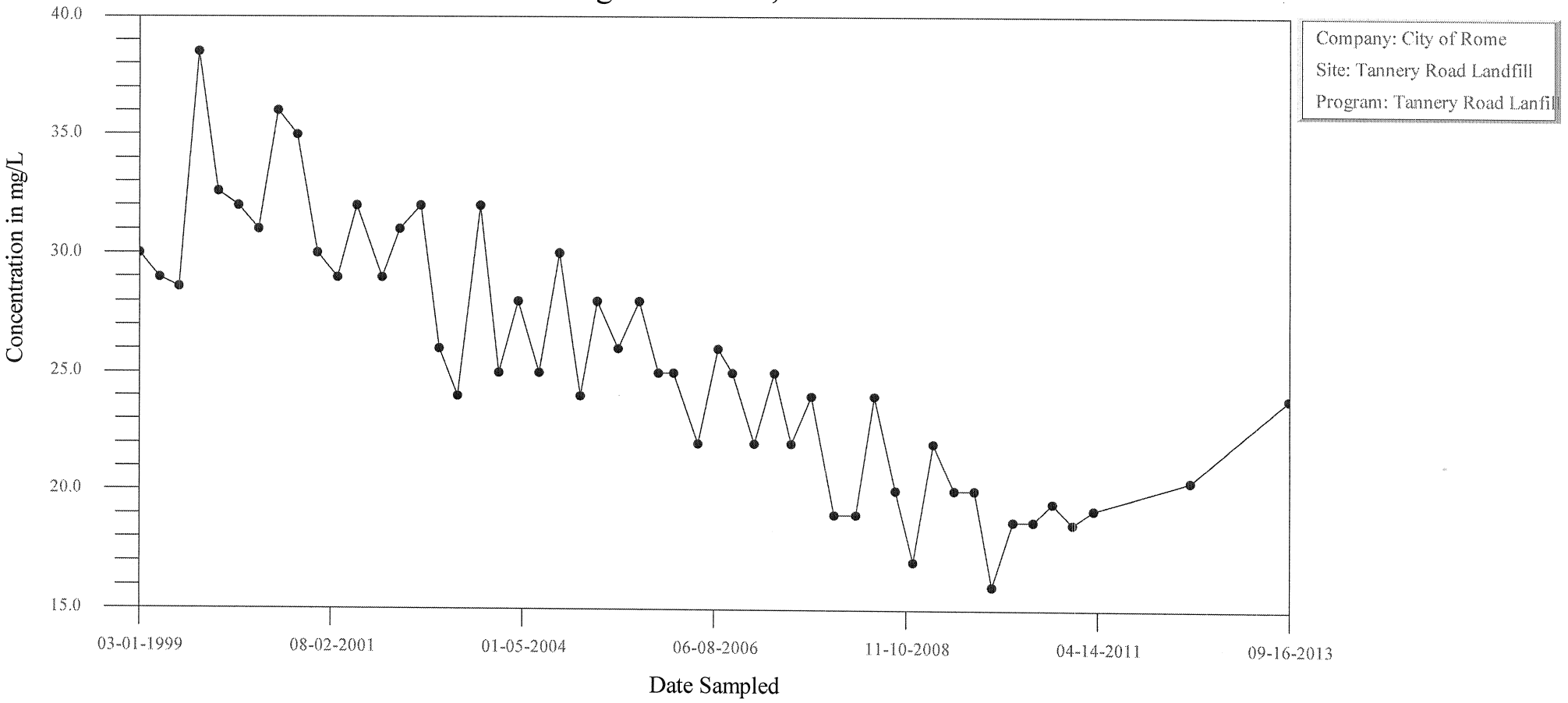
Time-Series Plot

Total Dissolved Solids, MW-9S



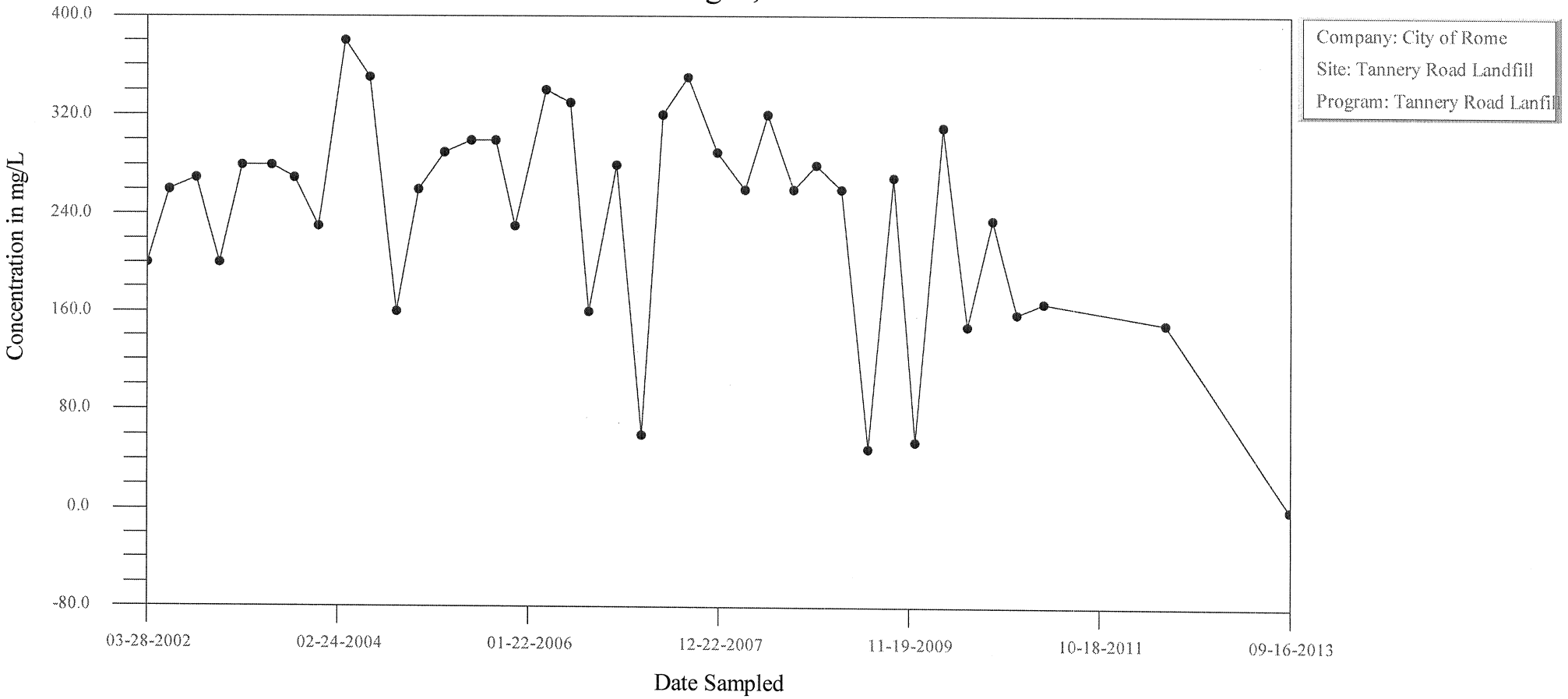
Time-Series Plot

Total Organic Carbon, MW-9S



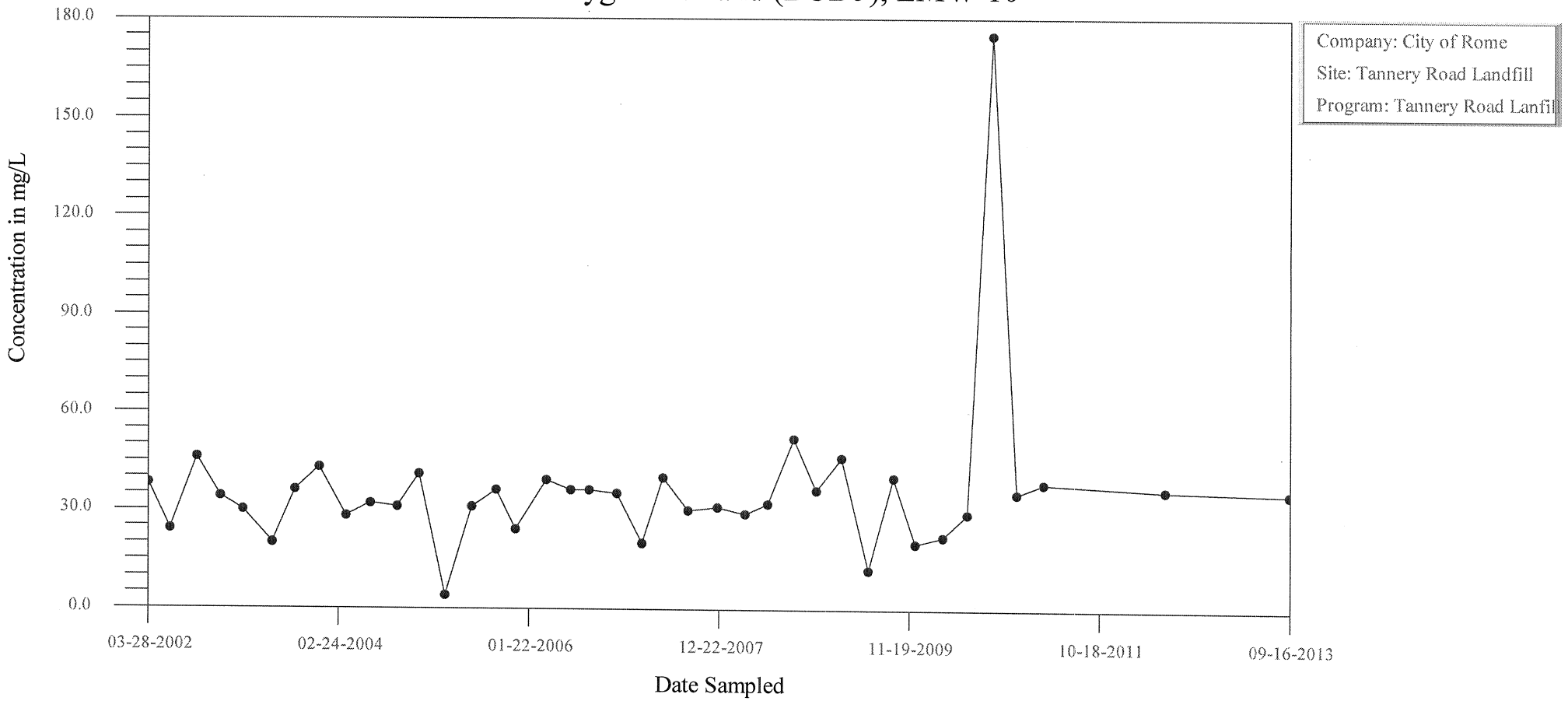
Time-Series Plot

Ammonia-Nitrogen, LMW-10



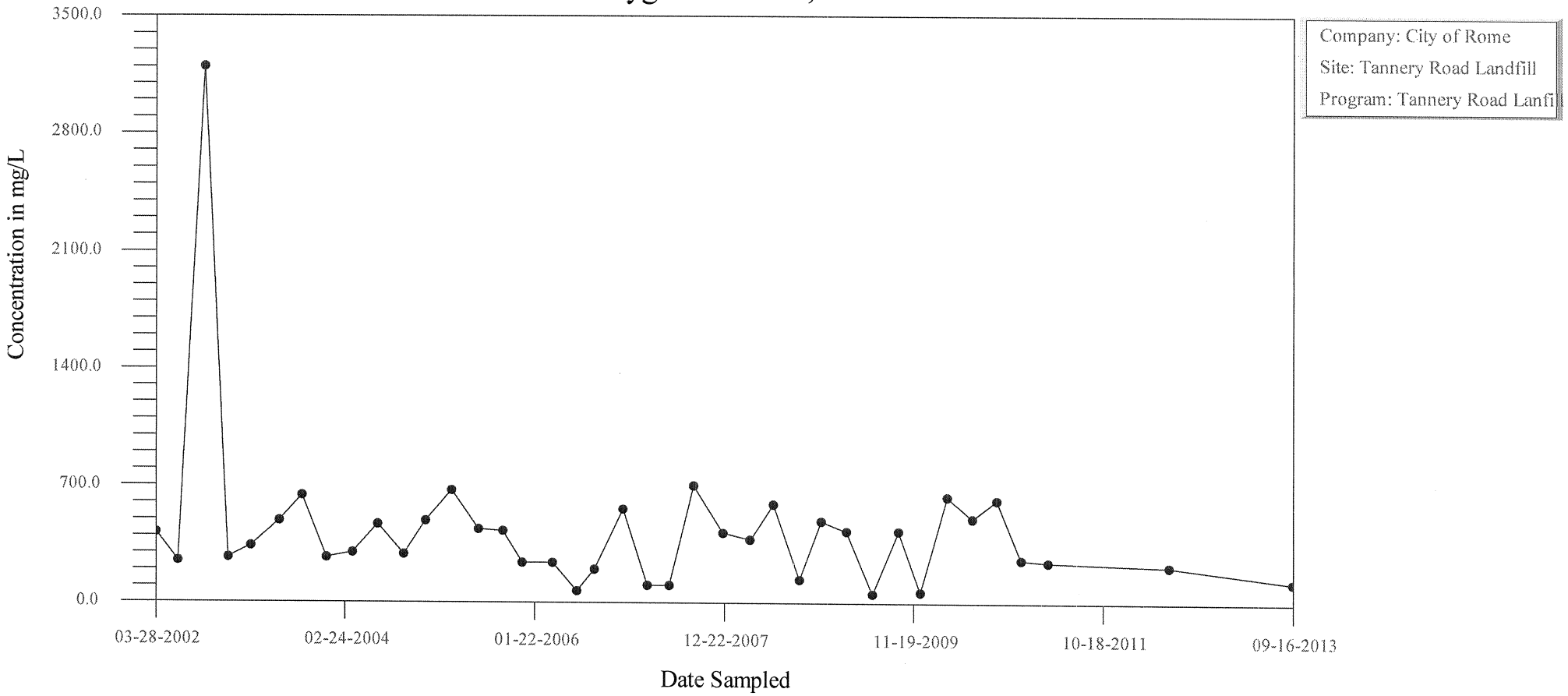
Time-Series Plot

Biochemical Oxygen Demand (BOD5), LMW-10



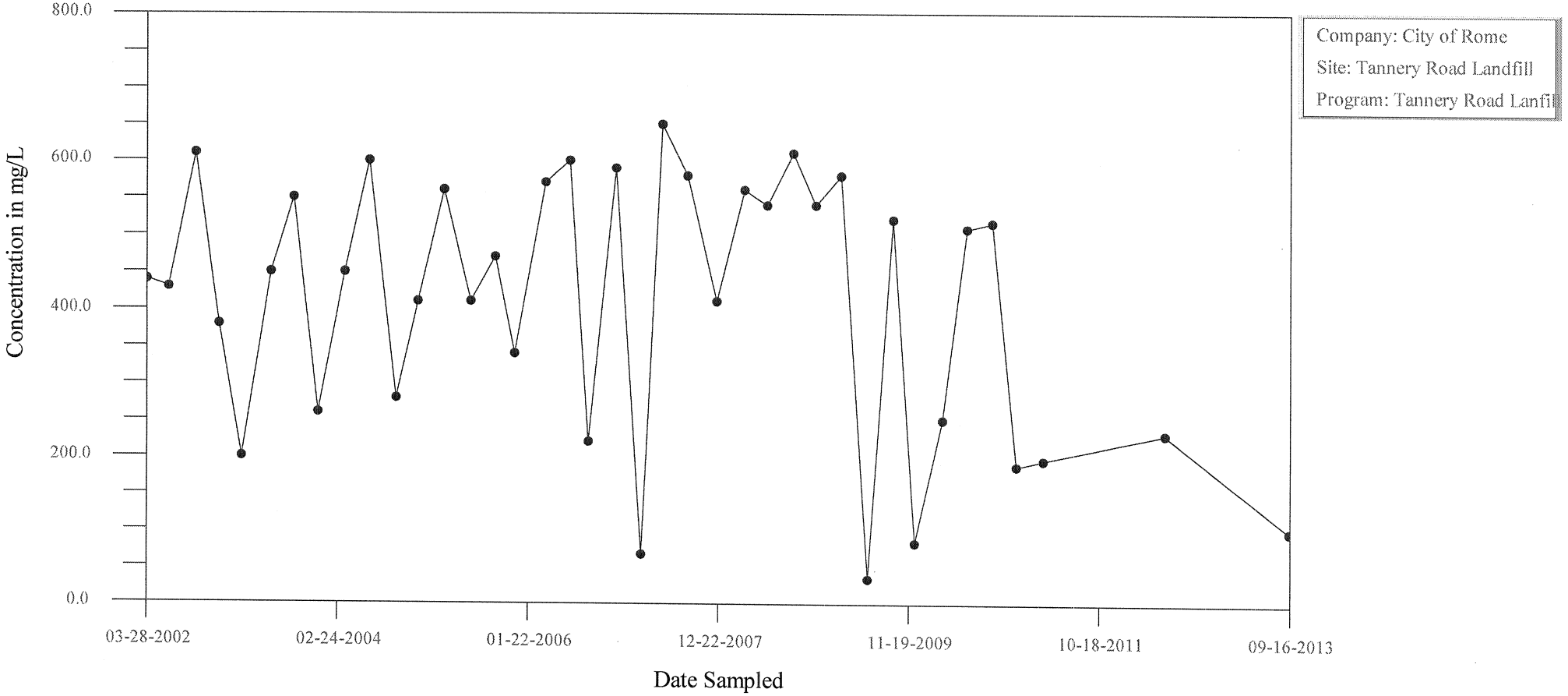
Time-Series Plot

Chemical Oxygen Demand, LMW-10



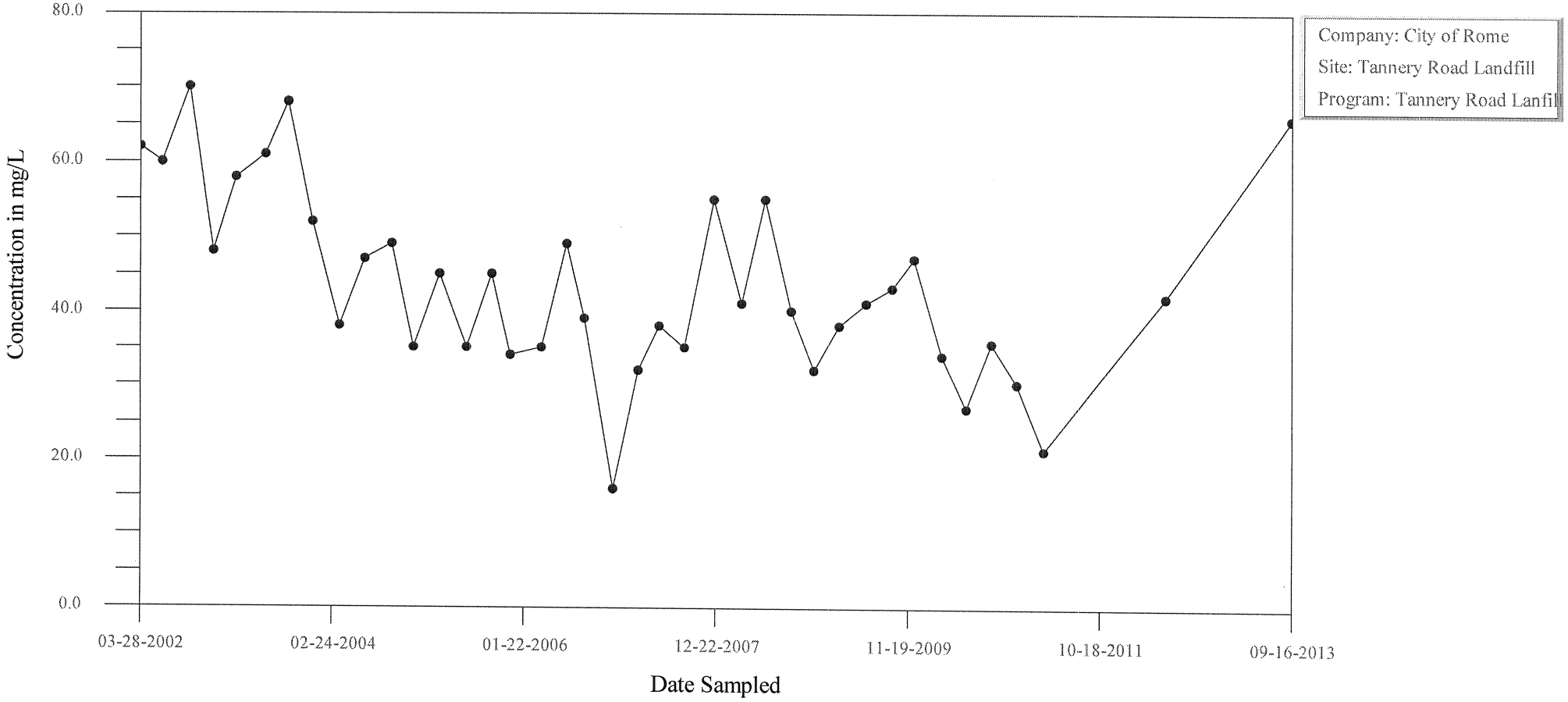
Time-Series Plot

Chloride, LMW-10



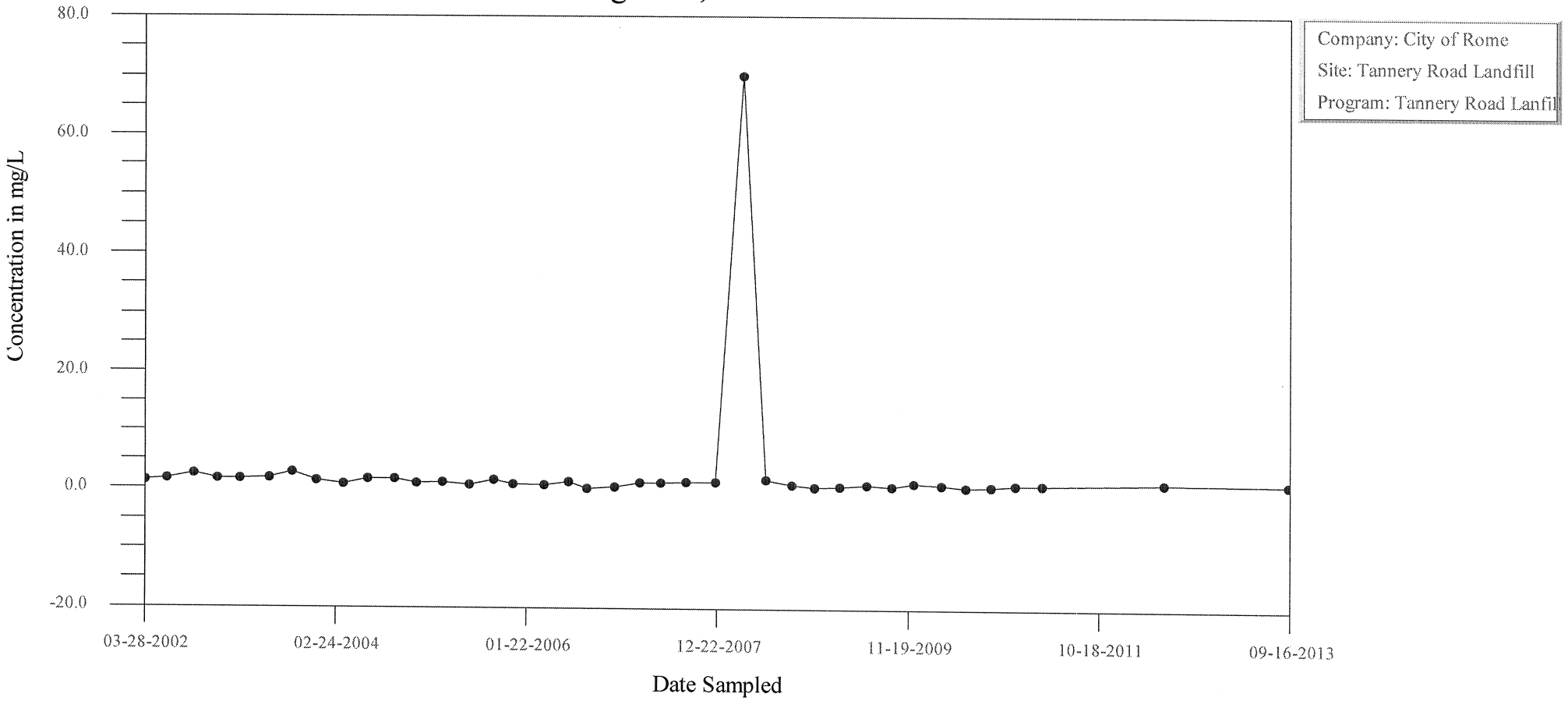
Time-Series Plot

Iron, LMW-10



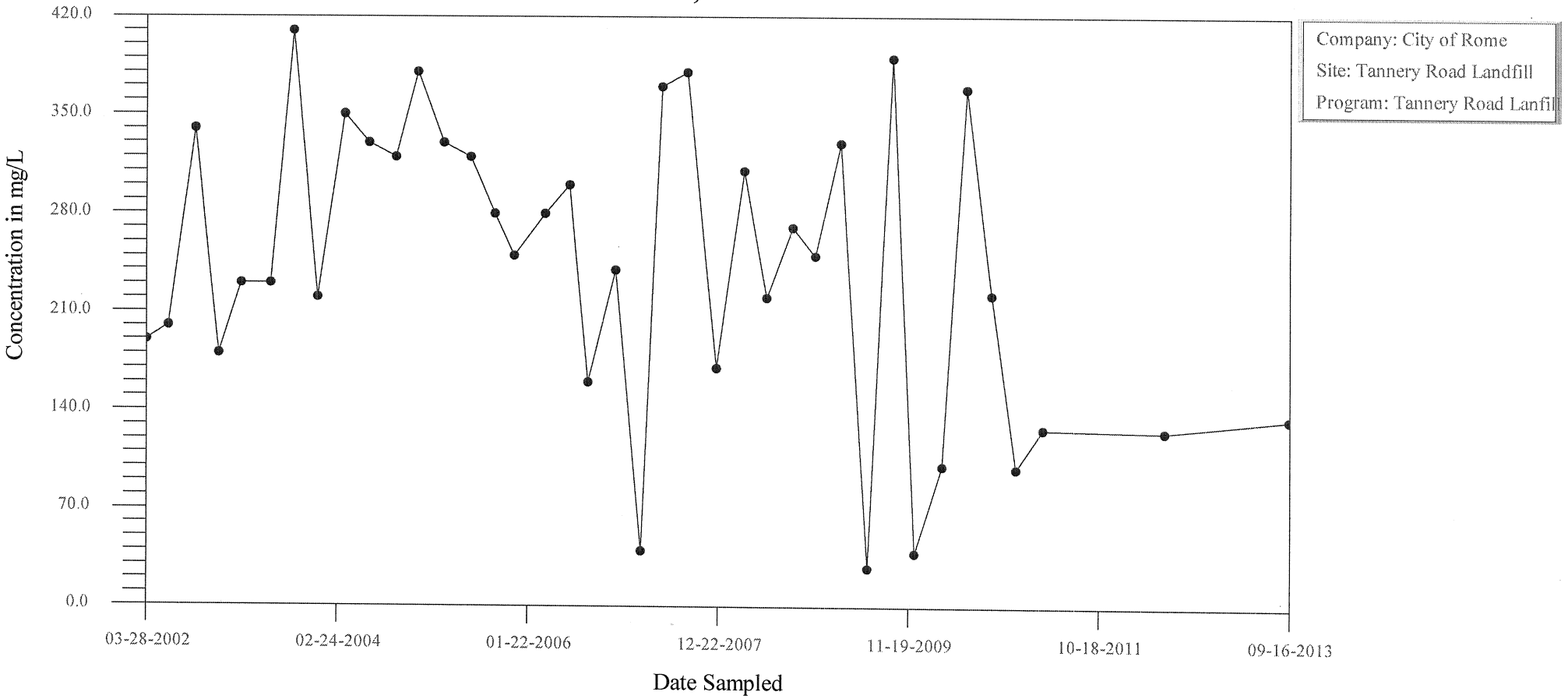
Time-Series Plot

Manganese, LMW-10



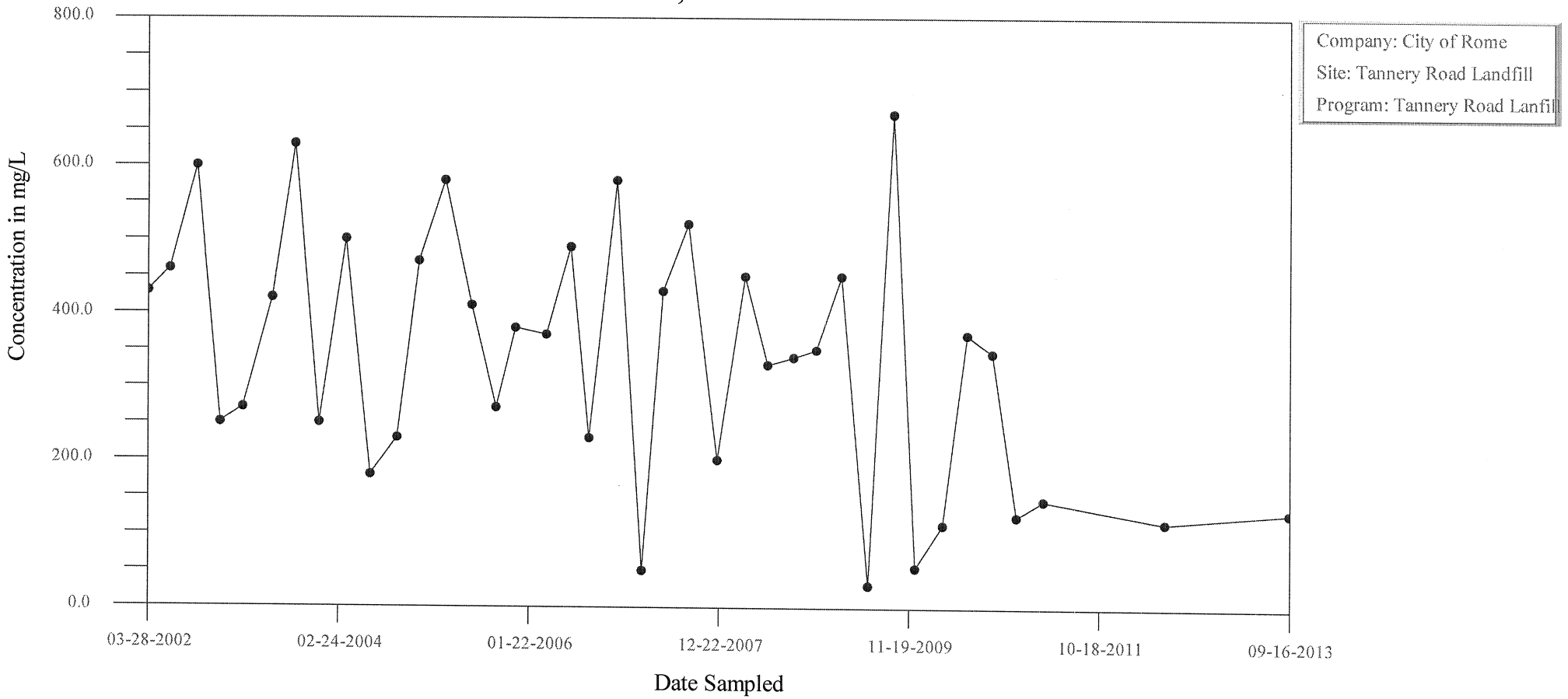
Time-Series Plot

Potassium, LMW-10



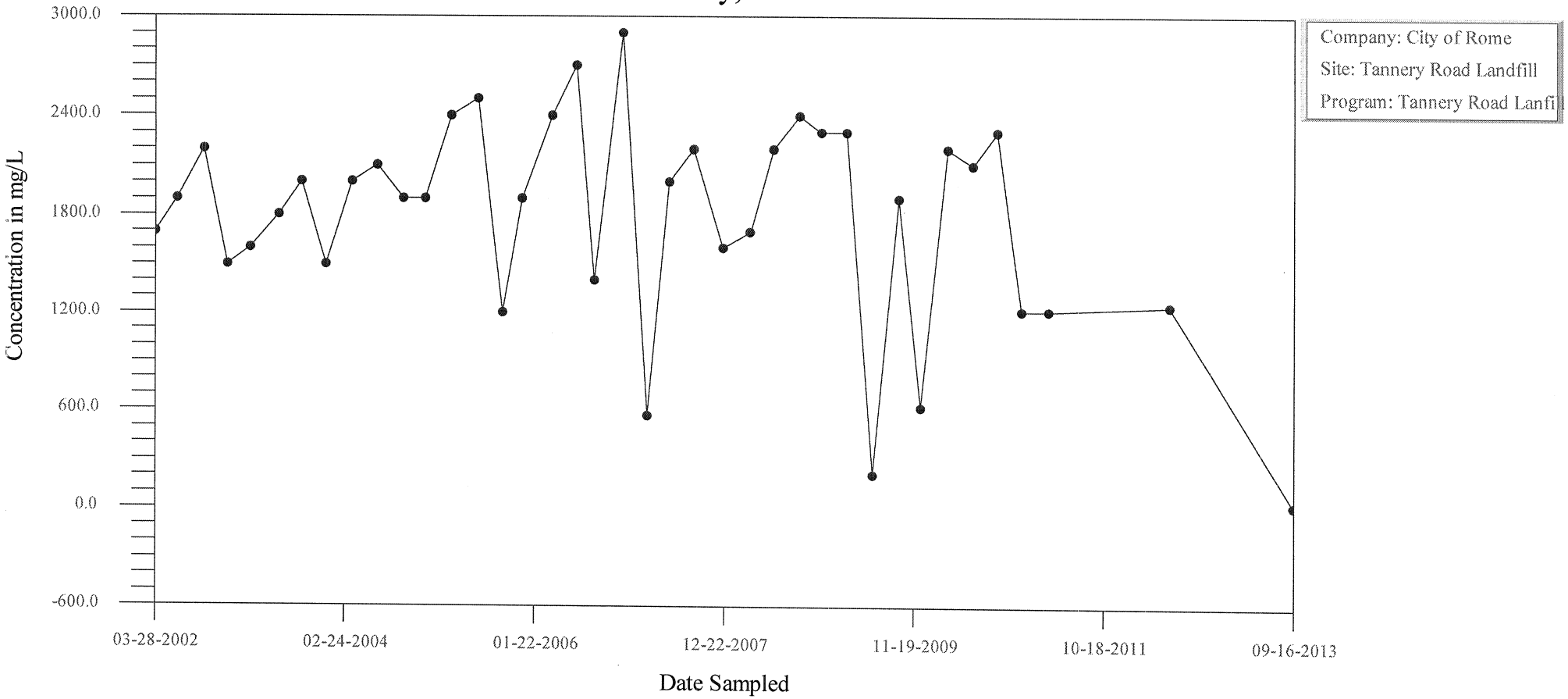
Time-Series Plot

Sodium, LMW-10



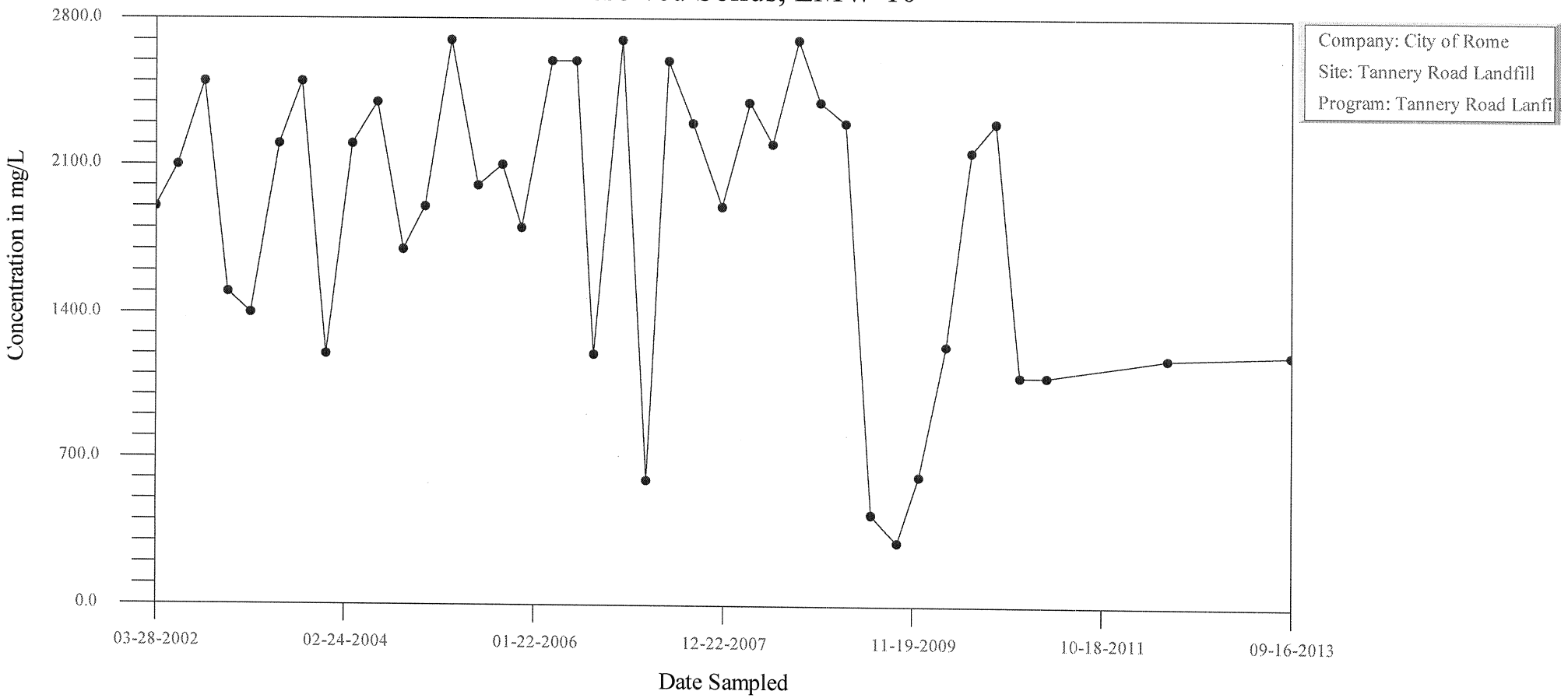
Time-Series Plot

Total Alkalinity, LMW-10



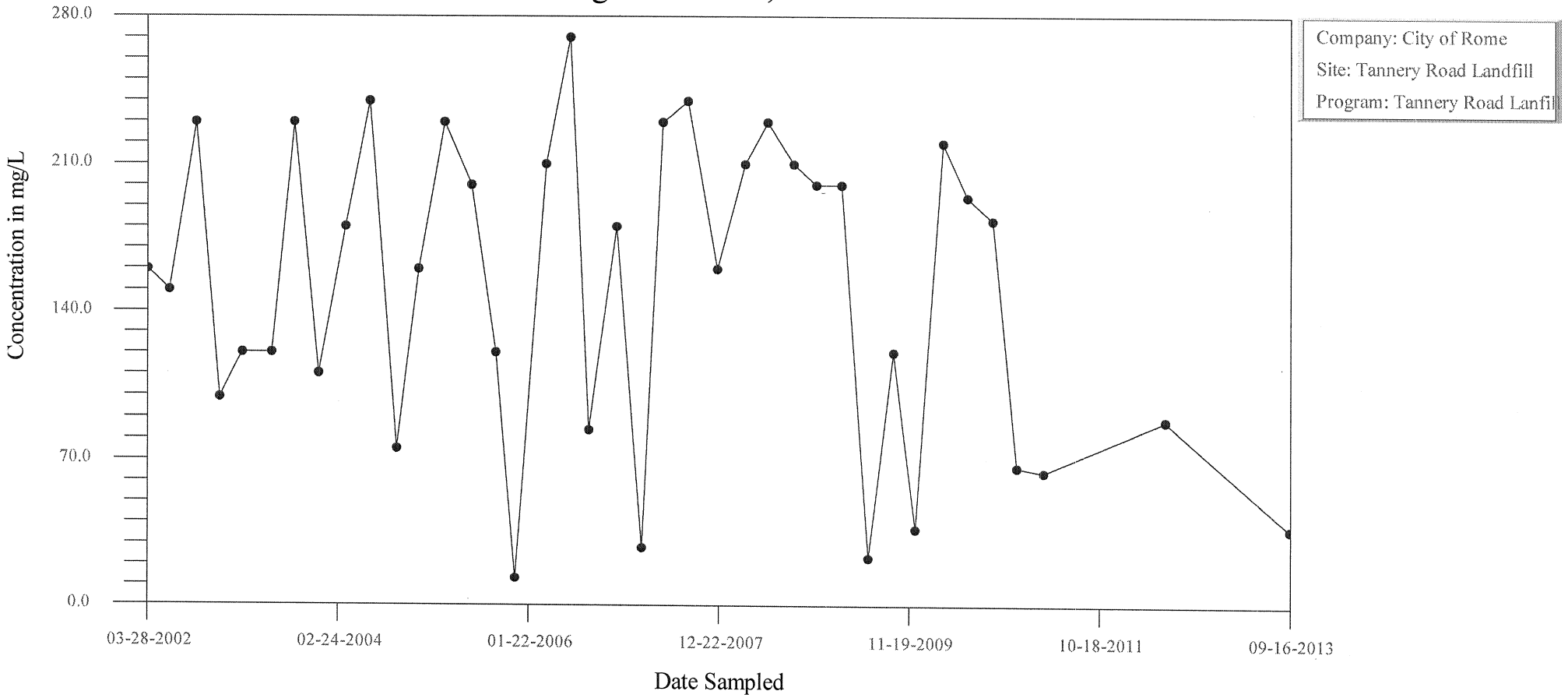
Time-Series Plot

Total Dissolved Solids, LMW-10



Time-Series Plot

Total Organic Carbon, LMW-10



APPENDIX C

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
3/29/2011
9/21/2011
03/26/12
09/21/12
3/28/2013
9/16/2013

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
3/28/06
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
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01/23/09
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5/15/2009
7/17/2009
9/25/2009
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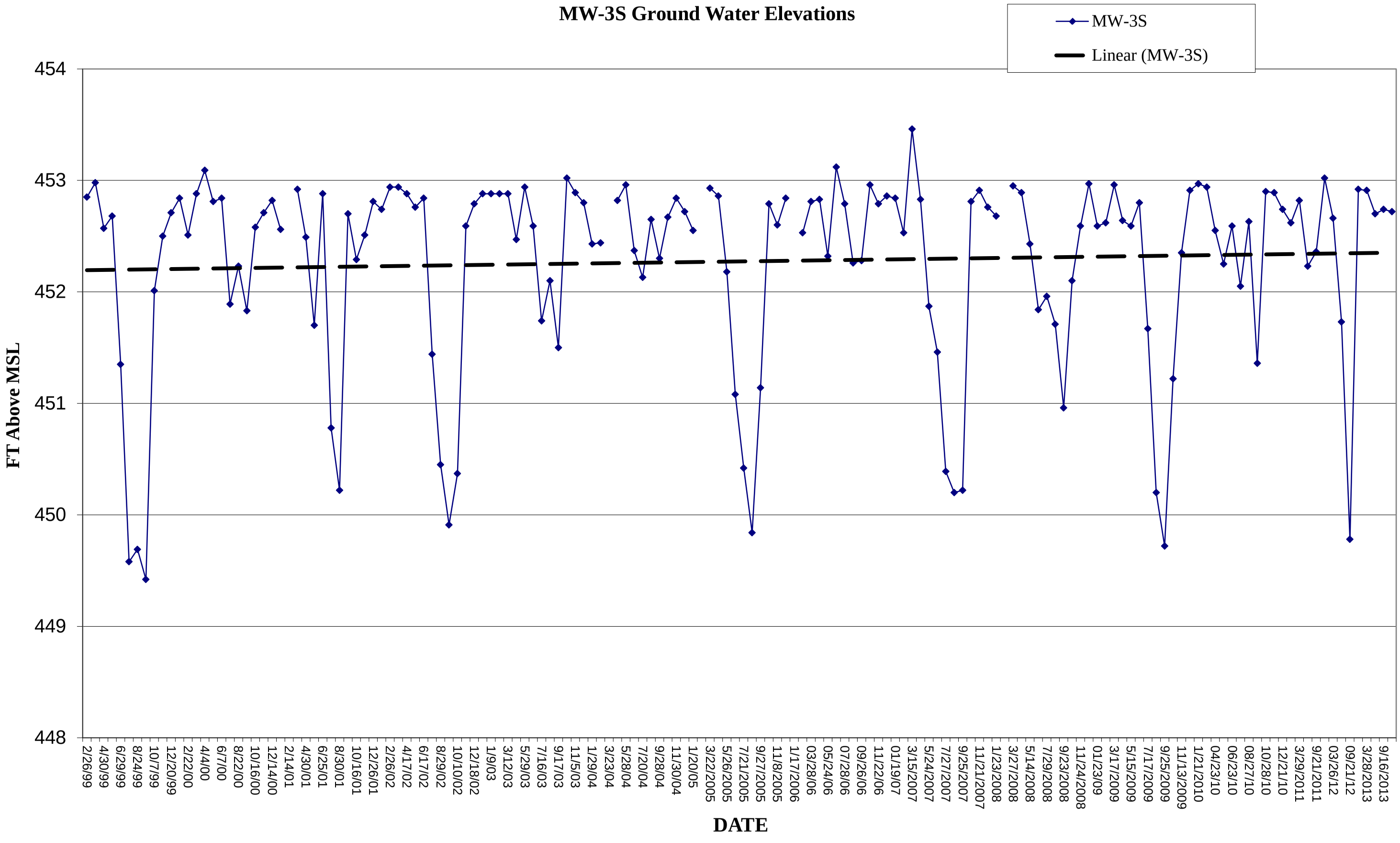
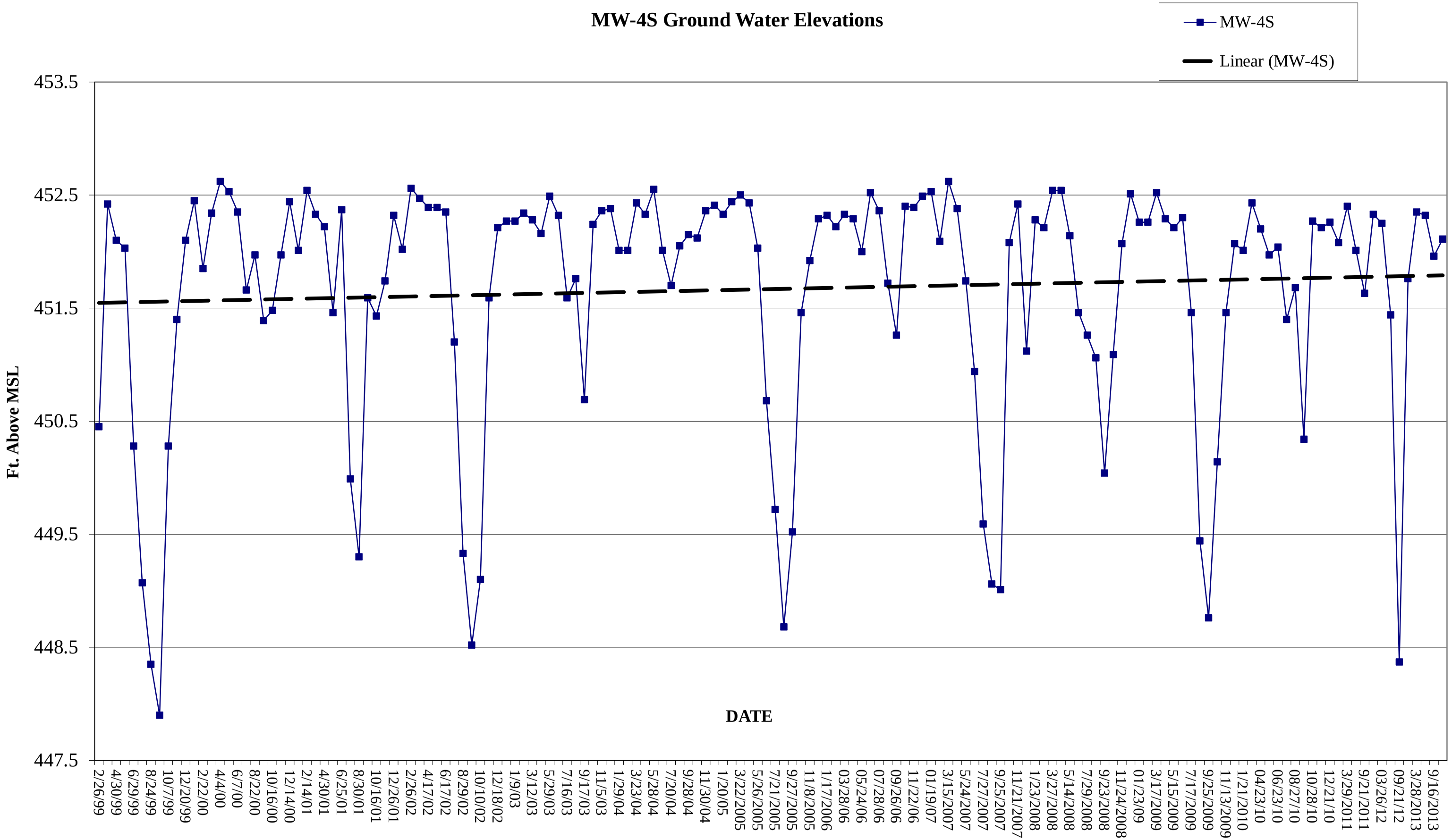
1/21/2010
04/23/10
06/23/10
08/27/10
10/28/10
12/21/10
3/29/2011
9/21/2011
03/26/12
09/21/12
3/28/2013
9/16/2013

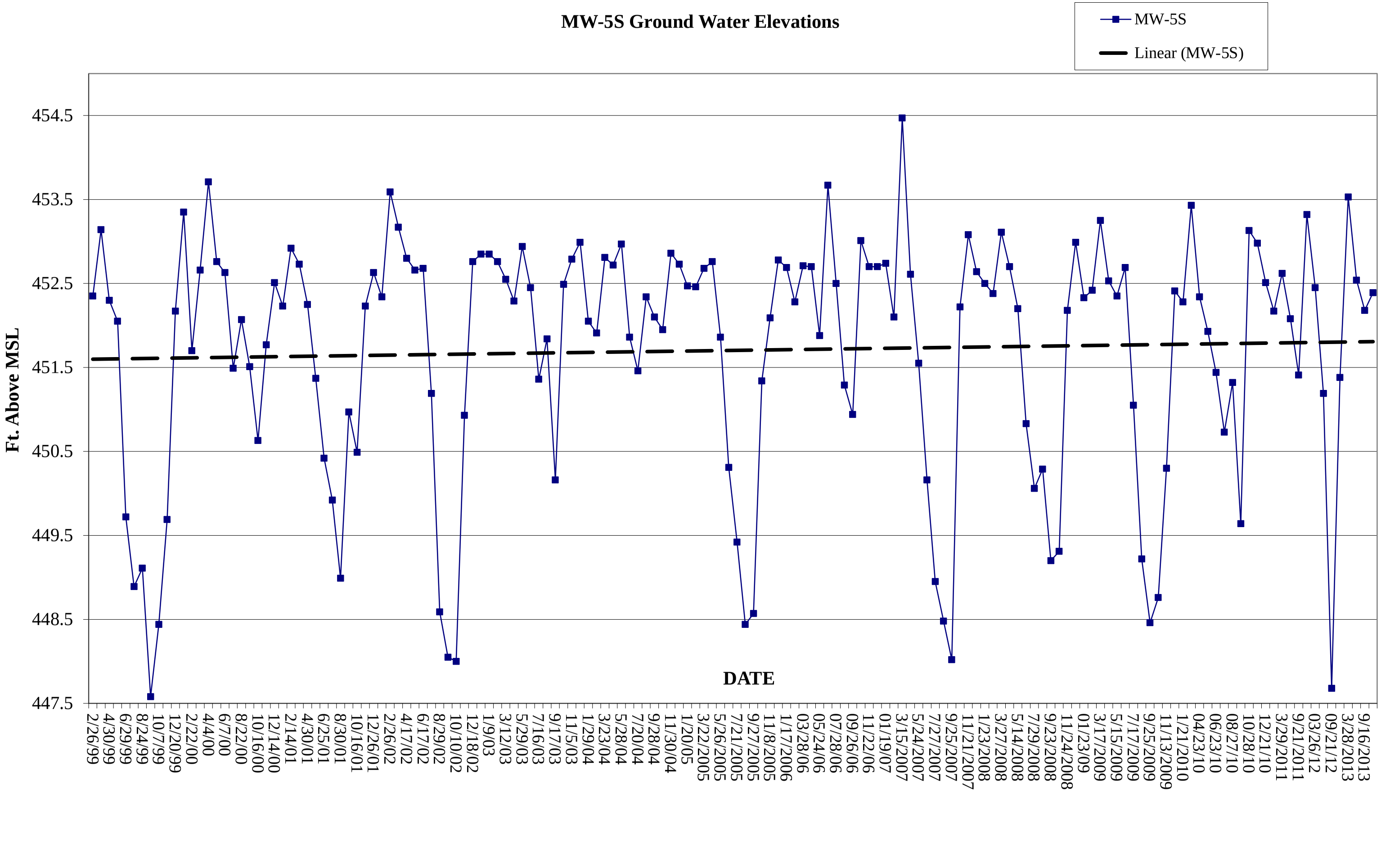
MW-3S Ground Water Elevations



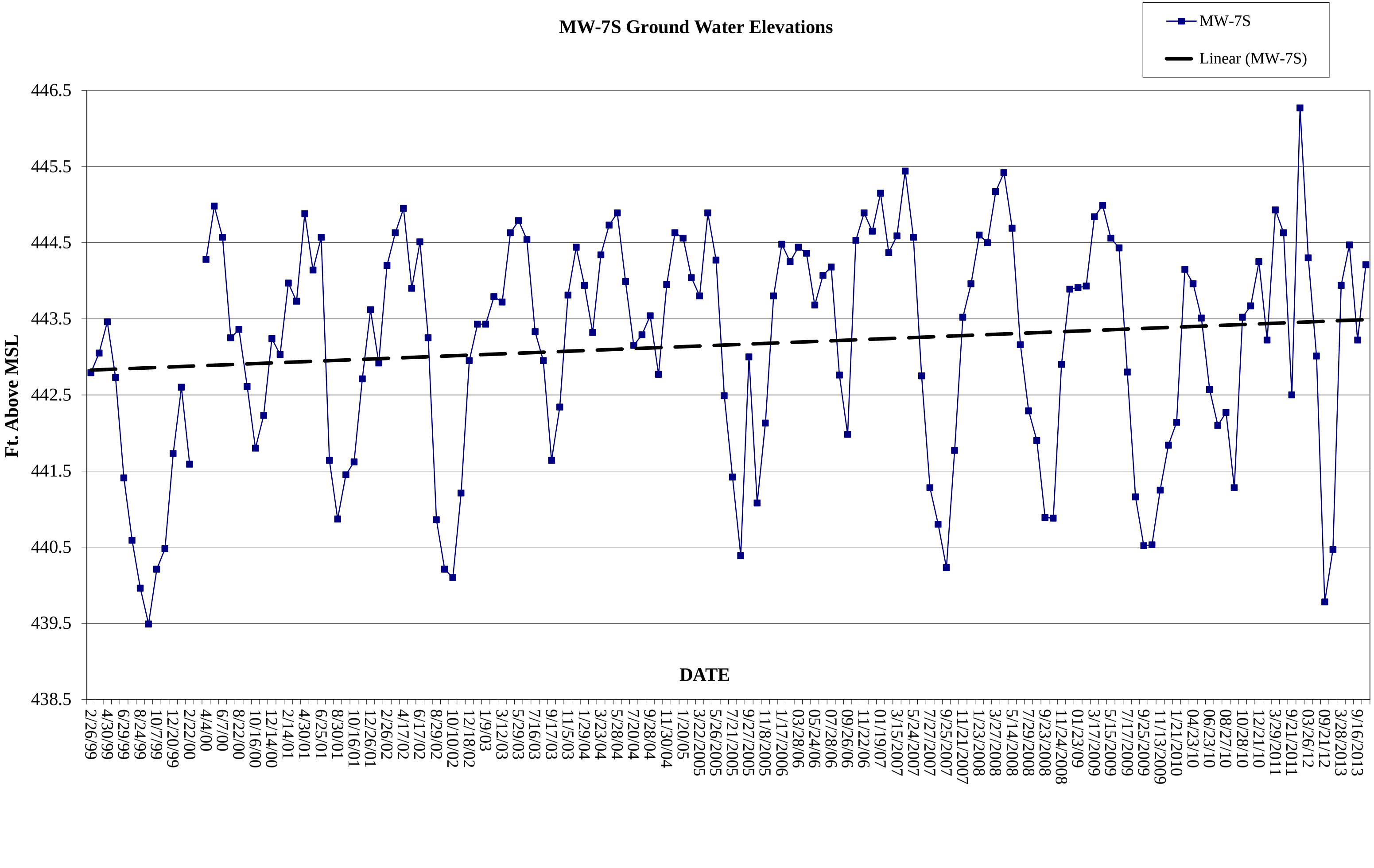
MW-4S Ground Water Elevations



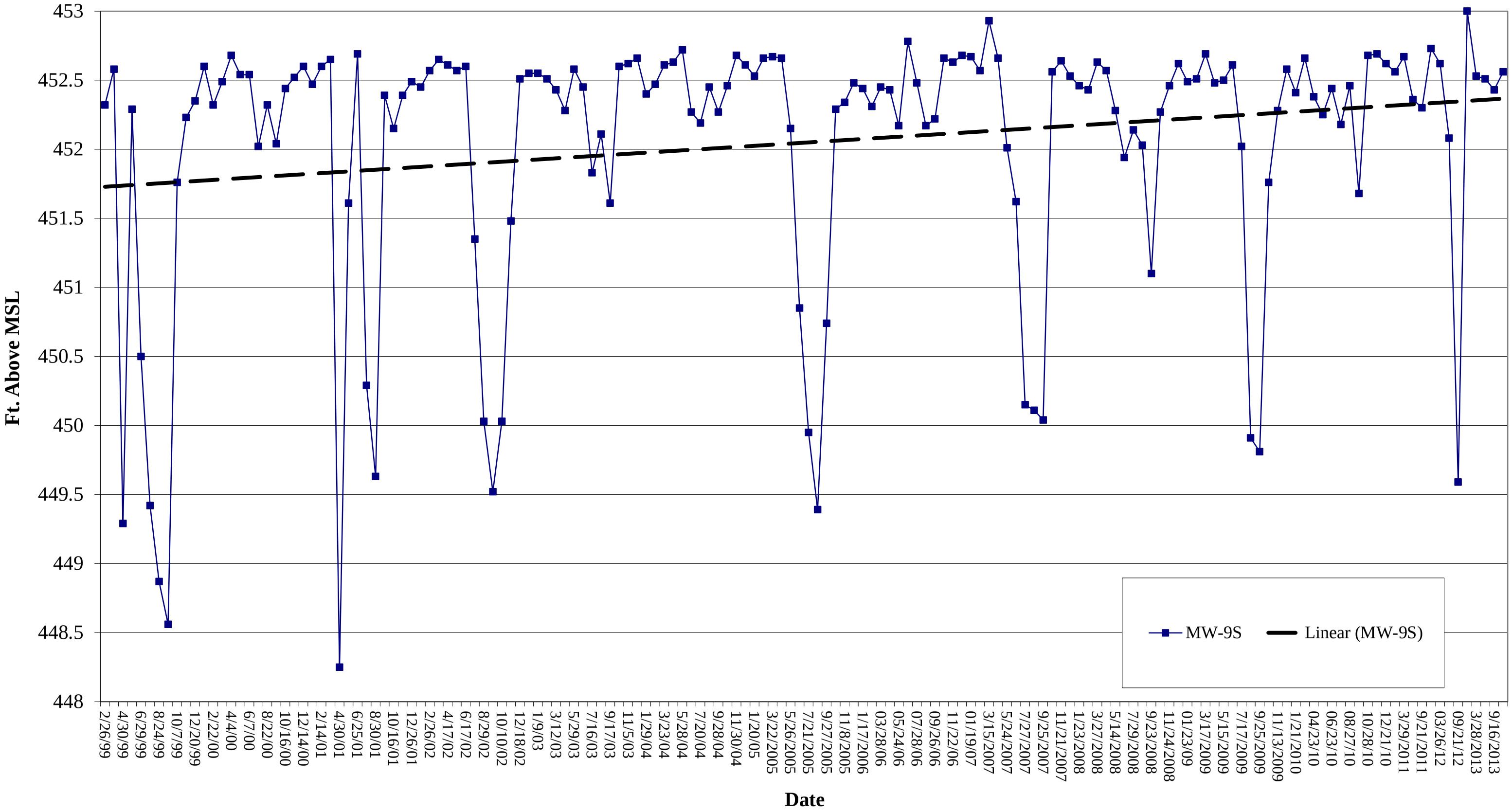
MW-5S Ground Water Elevations



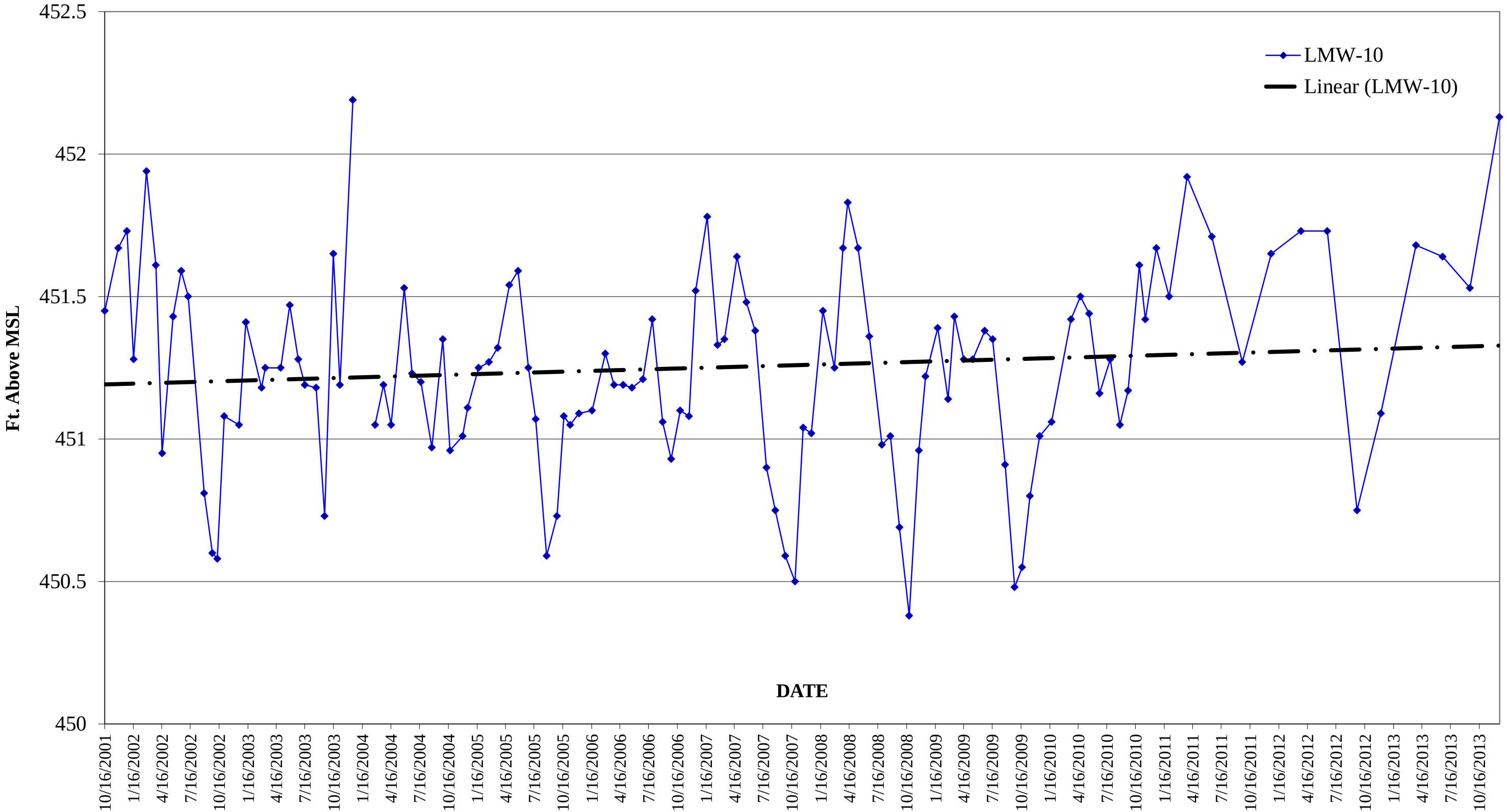
MW-7S Ground Water Elevations



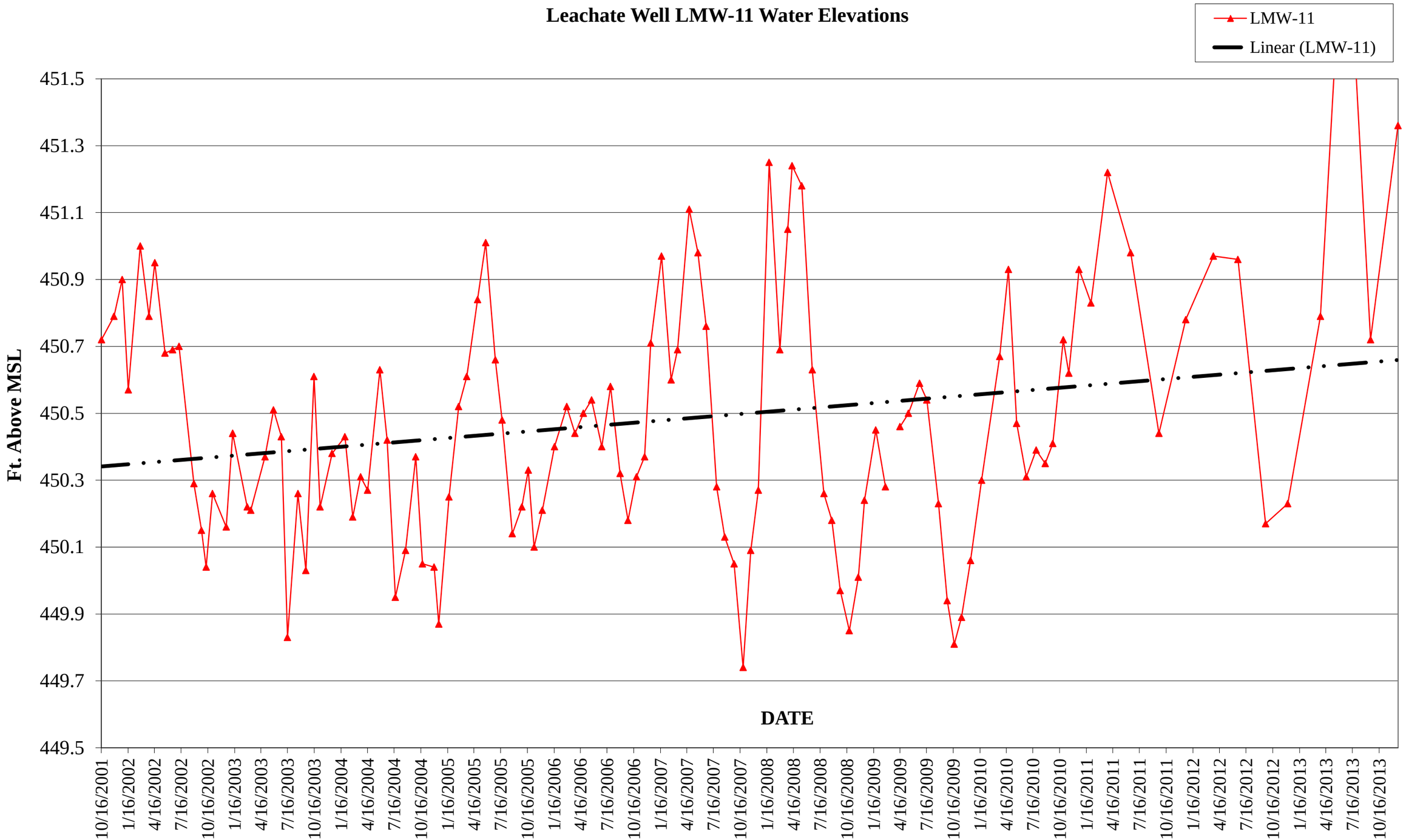
MW-9S Ground Water Elevations



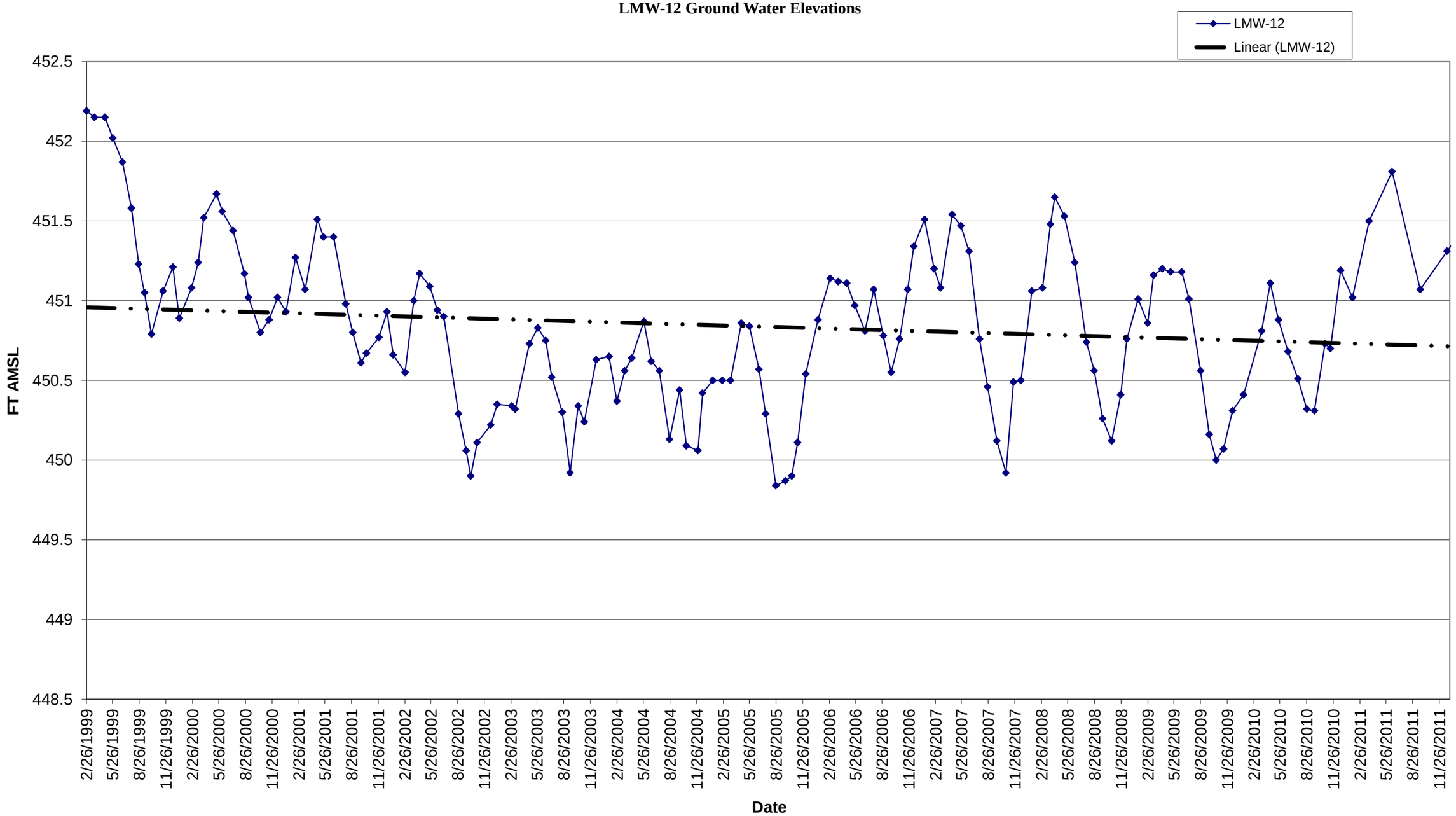
Leachate Well LMW-10 Water Elevations



Leachate Well LMW-11 Water Elevations



LMW-12 Ground Water Elevations



APPENDIX D

MONTHLY INSPECTION FORMS

TANNERY ROAD LANDFILL, ROME, NY
INSPECTION CHECKLIST

Date & Time: 3/28/13 Inspector: EEF

Weather: Cloudy 35°

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: 99458 Pump #2 Hours: 8457.7

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 2 ea
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 4385100

RW-2 — RW-4 389300

2 not connected

Hour Meters

RW-1 196865 RW-3 791589

RW-2 715983 RW-4 284015

Landfill Cover Inspection

Leachate seeps Any new seeps NO If YES, describe:

Western seep condition:

North seep condition: Iron staining

Gas vents - general condition OK

- Unusual odors, list vents/describe. none

Flares ignited None ignited Were sparking OK

Perimeter fence OK OK

Erosion/animal burrows NO If YES, describe:

1. Erosion North side Landfill West NW pumping well/MW-2 between MW-2 and MW-3 clusters, just east of new northern downchute

2. Erosion just west southern downchute. Break in Tac-on-berm

3. Washout/ erosion east of south downchute →

TANNERY ROAD LANDFILL, ROME, NY
INSPECTION CHECKLIST

Date & Time: 3/28/13 Inspector: CeF

Monitoring Well Water Level Data

WELL No	Measure Pt Elev.	Depth to Water (ft)	Groundwater Elevation (ft)	Well Condition
MW - 1S	449.59	4.70		
MW - 2S	459.44	6.95		
MW - 3S	456.4	3.49		
MW - 4S	456.19	3.84		
MW - 5S	457.15	3.62		
MW - 7S	452.25	8.31		OK
MW - 9S	456.38	3.85		
MW - 10	486.3	3.62		
MW - 11	502.4	51.61		
MW - 12	483.11	31.78		
PZ - 1	454.37	7.47		

NOTES:

70 8.56
1D 5.25
2D 6.55 6.55
5D 3.90

TANNERY ROAD LANDFILL, ROME, NY
INSPECTION CHECKLIST

Date & Time: 6/21/10 Inspector: EaF

Monitoring Well Water Level Data

WELL No	Measure Pt Elev.	Depth to Water (ft)	Groundwater Elevation (ft)	Well Condition
MW - 1S	449.59	5.11		
MW - 2S	459.44	6.57		
MW - 3S	456.4	3.70		
MW - 4S	456.19	3.87		
MW - 5S	457.15	4.61		
MW - 7S	452.25	7.78		
MW - 9S	456.38	3.87		
MW - 10	486.3	34.66		
MW - 11	502.4	50.29		
MW - 12	483.11	31.72		
PZ - 1	454.37	5.83		

NOTES:

7D 7.95
1D 5.6
2D 6.13
5D 4.62

TANNERY ROAD LANDFILL, ROME, NY
INSPECTION CHECKLIST

Date & Time: 6/21/13 Inspector: EGF

Weather: Sunny 55°

GENERAL INSPECTION - To Be Completed Monthly

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

Pump #1 Hours: 100409 Pump #2 Hours: 085363

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

Totallizers (in meter pit)

RW-1 45386000 RW-3 4438800

RW-2 3618000 RW-4 3893000

Hour Meters

RW-1 196865 RW-3 807551

RW-2 726533 RW-4 284015

Landfill Cover Inspection

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

Western seep condition: not present

North seep condition: Not present

Gas vents - general condition (OK)

- Unusual odors, list vents/describe.

Flares ignited None ignited OK None ignited

Perimeter fence OK OK

Erosion/animal burrows NO If YES, describe:

1. Erosion South side LF East of downchute by RW-3
2. Erosion south side LF near wetland. Erosion channel is vegetated but should be repaired

3.

TANNERY ROAD LANDFILL, ROME, NY
INSPECTION CHECKLIST

Date & Time: 9/16/13 Inspector: EWF

Weather: Light Rain

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: 101626 Pump #2 Hours: 086345

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

Totallizers (in meter pit)

RW-1 453946 RW-3 ~~449996~~ 4499600

RW-2 3877720 RW-4 —

Hour Meters

RW-1 196865 RW-3 820514

RW-2 747087 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 NO OK none ignited

Perimeter fence OK OK

Erosion/animal burrows NO If YES, describe:

1. Erosion south side landfill near wetland. Area vegetated but erosion channels should be repaired

2. Erosion north side landfill just Northwest pumping well LMW-2 between MW-2 & MW-3 just east of new northern downchute

TANNERY ROAD LANDFILL, ROME, NY
INSPECTION CHECKLIST

Date & Time: 9/16/13 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	6.01		
MW - 2S	459.44	7.51		
MW - 3S	456.4	~~3.95~~ 3.66		
MW - 4S	456.19	4.23		
MW - 5S	457.15	4.97		
MW - 7S	452.25	9.03		
MW - 9S	456.38	3.95		
MW - 10	486.3	34.77		
MW - 11	502.4	51.68		
MW - 12	483.11	31.94		
PZ - 1	454.37	6.98		

NOTES:

7D 9.27
1D 6.48
2D 7.39
5D 5.07

TANNERY ROAD LANDFILL, ROME, NY
INSPECTION CHECKLIST

Date & Time: 12/18/2013 Inspector: Brent Zimmer
Weather: Sunny

GENERAL INSPECTION - To Be Completed Monthly

		Notes Problems
General Site Condition:		
Gates - condition and locks for inner & outer gates:	(OK)	
Access Road - surface/paving/snow	OK	Snow
Overall appearance (trash/litter)	(OK)	
Pump Station at Tannery Road:	Condition: OK	
Pump #1 Hours: 102656	Pump #2 Hours: 87180	
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 4602200
RW-2 4028600 RW-4 Removed

Hour Meters

RW-1 19686.5 RW-3 84218.2
RW-2 7624.3 RW-4 28401.5

Landfill Cover Inspection

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

The Toe on Berm in the south east corner has two wash outs near the recent (2 years) new down chute installed.

TANNERY ROAD LANDFILL, ROME, NY
INSPECTION CHECKLIST

Date & Time: 12/19/2013 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	5.39	444.2	Good
MW - 2S	459.44	7.01	452.43	Good
MW - 3S	456.4	3.68	452.72	Good
MW - 4S	456.19	4.08	452.11	Good
MW - 5S	457.15	4.76	452.39	Good
MW - 7S	452.25	8.04	444.21	Good
MW - 7D	451.79	8.33	443.46	Good
MW - 9S	456.38	3.82	452.56	Good
MW - 10	486.3	34.17	452.13	Good
MW - 11	502.4	51.04	451.36	Good
MW - 12	483.11	22.65	Obstruction	
PZ - 1*	454.37	6.26	448.11	Good
50		4.84		
2D		7.02		

NOTES:

APPENDIX E

LABORATORY REPORTING SHEETS

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

LMW-10

Lab Name: AES, Inc. Contract:

Lab Code: AES Case No.: DE1311 SAS No.: SDG No.: LMW-10

Matrix (soil/water): WATER Lab Sample ID: 130916037-007G

Sample wt/vol: 5.0 (g/mL) ml Lab File ID: d677b.D

Level (low/med): Date Received: 9/16/13

% Moisture: not dec. 100 Date Analyzed: 9/23/13

GC Column: DB624 ID: 0.18 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CAS No.	Compound	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
74-87-3	Chloromethane	10	U
75-01-4	Vinyl chloride	10	U
74-83-9	Bromomethane	10	U
75-00-3	Chloroethane	14	
75-69-4	Trichlorofluoromethane	5.0	U
75-35-4	1,1-Dichloroethene	5.0	U
74-88-4	Iodomethane	10	U
75-15-0	Carbon disulfide	5.0	U
67-64-1	Acetone	10	U
75-09-2	Methylene Chloride	5.0	U
156-60-5	trans-1,2-Dichloroethene	5.0	U
107-13-1	Acrylonitrile	25	U
75-34-3	1,1-Dichloroethane	5.0	U
108-05-4	Vinyl Acetate	10	U
156-59-2	cis-1,2-Dichloroethene	5.0	U
594-20-7	2,2-Dichloropropane	5.0	U
74-97-5	Bromochloromethane	5.0	U
67-66-3	Chloroform	5.0	U
107-06-2	1,2-Dichloroethane	5.0	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	5.0	U
56-23-5	Carbon Tetrachloride	5.0	U
71-43-2	Benzene	7.7	
79-01-6	Trichloroethene	5.0	U
78-87-5	1,2-Dichloropropane	5.0	U
74-95-3	Dibromomethane	5.0	U
75-27-4	Bromodichloromethane	5.0	U
10061-01-5	cis-1,3-Dichloropropene	5.0	U
10061-02-6	Trans-1,3-dichloropropene	5.0	U
79-00-5	1,1,2-Trichloroethane	5.0	U
124-48-1	Dibromochloromethane	5.0	U
106-93-4	1,2-Dibromoethane	5.0	U
75-25-2	Bromoform	5.0	U
108-10-1	4-Methyl-2-Pentanone	10	U

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

LMW-10

Lab Name: AES, Inc. Contract:

Lab Code: AES Case No.: DE1311 SAS No.: SDG No.: LMW-10

Matrix (soil/water): WATER Lab Sample ID: 130916037-007G

Sample wt/vol: 5.0 (g/mL) ml Lab File ID: d677b.D

Level (low/med): Date Received: 9/16/13

% Moisture: not dec. 100 Date Analyzed: 9/23/13

GC Column: DB624 ID: 0.18 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:

CAS No.	Compound	(ug/L or ug/Kg) ug/L	Q
108-88-3	Toluene	5.0	U
127-18-4	Tetrachloroethene	5.0	U
591-78-6	2-Hexanone	10	U
108-90-7	Chlorobenzene	10	
100-41-4	Ethyl Benzene	5.0	U
126777-61-2	m/p-Xylenes	5.1	
95-47-6	o-Xylene	5.0	U
100-42-5	Styrene	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U
96-18-4	1,2,3-Trichloropropane	5.0	U
630-20-6	1,1,1,2-Tetrachloroethane	5.0	U
541-73-1	1,3-Dichlorobenzene	5.0	U
106-46-7	1,4-Dichlorobenzene	6.9	
95-50-1	1,2-Dichlorobenzene	5.0	U
99-87-6	4-Isopropyltoluene	10	U

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-1S

Lab Name: AES, Inc. Contract:

Lab Code: AES Case No.: DE1311 SAS No.: SDG No.: LMW-10

Matrix (soil/water): WATER Lab Sample ID: 130916037-002G

Sample wt/vol: 5.0 (g/mL) ml Lab File ID: d6748.D

Level (low/med): Date Received: 9/16/13

% Moisture: not dec. 100 Date Analyzed: 9/23/13

GC Column: DB624 ID: 0.18 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CAS No.	Compound	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
74-87-3	Chloromethane	10	U
75-01-4	Vinyl chloride	10	U
74-83-9	Bromomethane	10	U
75-00-3	Chloroethane	10	U
75-69-4	Trichlorofluoromethane	5.0	U
75-35-4	1,1-Dichloroethene	5.0	U
74-88-4	Iodomethane	10	U
75-15-0	Carbon disulfide	5.0	U
67-64-1	Acetone	10	U
75-09-2	Methylene Chloride	5.0	U
156-60-5	trans-1,2-Dichloroethene	5.0	U
107-13-1	Acrylonitrile	25	U
75-34-3	1,1-Dichloroethane	5.0	U
108-05-4	Vinyl Acetate	10	U
156-59-2	cis-1,2-Dichloroethene	5.0	U
594-20-7	2,2-Dichloropropane	5.0	U
74-97-5	Bromochloromethane	5.0	U
67-66-3	Chloroform	5.0	U
107-06-2	1,2-Dichloroethane	5.0	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	5.0	U
56-23-5	Carbon Tetrachloride	5.0	U
71-43-2	Benzene	5.0	U
79-01-6	Trichloroethene	5.0	U
78-87-5	1,2-Dichloropropane	5.0	U
74-95-3	Dibromomethane	5.0	U
75-27-4	Bromodichloromethane	5.0	U
10061-01-5	cis-1,3-Dichloropropene	5.0	U
10061-02-6	Trans-1,3-dichloropropene	5.0	U
79-00-5	1,1,2-Trichloroethane	5.0	U
124-48-1	Dibromochloromethane	5.0	U
106-93-4	1,2-Dibromoethane	5.0	U
75-25-2	Bromoform	5.0	U
108-10-1	4-Methyl-2-Pentanone	10	U

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-1S

Lab Name: AES, Inc. Contract:

Lab Code: AES Case No.: DE1311 SAS No.: SDG No.: LMW-10

Matrix (soil/water): WATER Lab Sample ID: 130916037-002G

Sample wt/vol: 5.0 (g/mL) ml Lab File ID: d6748.D

Level (low/med): Date Received: 9/16/13

% Moisture: not dec. 100 Date Analyzed: 9/23/13

GC Column: DB624 ID: 0.18 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CAS No.	Compound	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
108-88-3	Toluene	5.0	U
127-18-4	Tetrachloroethene	5.0	U
591-78-6	2-Hexanone	10	U
108-90-7	Chlorobenzene	5.0	U
100-41-4	Ethyl Benzene	5.0	U
126777-61-2	m/p-Xylenes	5.0	U
95-47-6	o-Xylene	5.0	U
100-42-5	Styrene	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U
96-18-4	1,2,3-Trichloropropane	5.0	U
630-20-6	1,1,1,2-Tetrachloroethane	5.0	U
541-73-1	1,3-Dichlorobenzene	5.0	U
106-46-7	1,4-Dichlorobenzene	5.0	U
95-50-1	1,2-Dichlorobenzene	5.0	U
99-87-6	4-Isopropyltoluene	10	U

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-2D

Lab Name: AES, Inc. Contract:

Lab Code: AES Case No.: DE1311 SAS No.: SDG No.: LMW-10

Matrix (soil/water): WATER Lab Sample ID: 130916037-003G

Sample wt/vol: 5.0 (g/mL) ml Lab File ID: d6749.D

Level (low/med): Date Received: 9/16/13

% Moisture: not dec. 100 Date Analyzed: 9/23/13

GC Column: DB624 ID: 0.18 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CAS No.	Compound	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
74-87-3	Chloromethane	10	U
75-01-4	Vinyl chloride	10	U
74-83-9	Bromomethane	10	U
75-00-3	Chloroethane	10	U
75-69-4	Trichlorofluoromethane	5.0	U
75-35-4	1,1-Dichloroethene	5.0	U
74-88-4	Iodomethane	10	U
75-15-0	Carbon disulfide	5.0	U
67-64-1	Acetone	10	U
75-09-2	Methylene Chloride	5.0	U
156-60-5	trans-1,2-Dichloroethene	5.0	U
107-13-1	Acrylonitrile	25	U
75-34-3	1,1-Dichloroethane	5.0	U
108-05-4	Vinyl Acetate	10	U
156-59-2	cis-1,2-Dichloroethene	5.0	U
594-20-7	2,2-Dichloropropane	5.0	U
74-97-5	Bromochloromethane	5.0	U
67-66-3	Chloroform	5.0	U
107-06-2	1,2-Dichloroethane	5.0	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	5.0	U
56-23-5	Carbon Tetrachloride	5.0	U
71-43-2	Benzene	5.0	U
79-01-6	Trichloroethene	5.0	U
78-87-5	1,2-Dichloropropane	5.0	U
74-95-3	Dibromomethane	5.0	U
75-27-4	Bromodichloromethane	5.0	U
10061-01-5	cis-1,3-Dichloropropene	5.0	U
10061-02-6	Trans-1,3-dichloropropene	5.0	U
79-00-5	1,1,2-Trichloroethane	5.0	U
124-48-1	Dibromochloromethane	5.0	U
106-93-4	1,2-Dibromoethane	5.0	U
75-25-2	Bromoform	5.0	U
108-10-1	4-Methyl-2-Pentanone	10	U

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VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-2D

Lab Name: AES, Inc. Contract:

Lab Code: AES Case No.: DE1311 SAS No.: SDG No.: LMW-10

Matrix (soil/water): WATER Lab Sample ID: 130916037-003G

Sample wt/vol: 5.0 (g/mL) ml Lab File ID: d6749.D

Level (low/med): Date Received: 9/16/13

% Moisture: not dec. 100 Date Analyzed: 9/23/13

GC Column: DB624 ID: 0.18 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CAS No.	Compound	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
108-88-3	Toluene	5.0	U
127-18-4	Tetrachloroethene	5.0	U
591-78-6	2-Hexanone	10	U
108-90-7	Chlorobenzene	5.0	U
100-41-4	Ethyl Benzene	5.0	U
126777-61-2	m/p-Xylenes	5.0	U
95-47-6	o-Xylene	5.0	U
100-42-5	Styrene	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U
96-18-4	1,2,3-Trichloropropane	5.0	U
630-20-6	1,1,1,2-Tetrachloroethane	5.0	U
541-73-1	1,3-Dichlorobenzene	5.0	U
106-46-7	1,4-Dichlorobenzene	5.0	U
95-50-1	1,2-Dichlorobenzene	5.0	U
99-87-6	4-Isopropyltoluene	10	U

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-3S

Lab Name: AES, Inc. Contract:

Lab Code: AES Case No.: DE1311 SAS No.: SDG No.: LMW-10

Matrix (soil/water): WATER Lab Sample ID: 130916037-005G

Sample wt/vol: 5.0 (g/mL) ml Lab File ID: d6751.D

Level (low/med): Date Received: 9/16/13

% Moisture: not dec. 100 Date Analyzed: 9/23/13

GC Column: DB624 ID: 0.18 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:

CAS No.	Compound	(ug/L or ug/Kg) ug/L	Q
74-87-3	Chloromethane	10	U
75-01-4	Vinyl chloride	10	U
74-83-9	Bromomethane	10	U
75-00-3	Chloroethane	10	U
75-69-4	Trichlorofluoromethane	5.0	U
75-35-4	1,1-Dichloroethene	5.0	U
74-88-4	Iodomethane	10	U
75-15-0	Carbon disulfide	5.0	U
67-64-1	Acetone	10	U
75-09-2	Methylene Chloride	5.0	U
156-60-5	trans-1,2-Dichloroethene	5.0	U
107-13-1	Acrylonitrile	25	U
75-34-3	1,1-Dichloroethane	5.0	U
108-05-4	Vinyl Acetate	10	U
156-59-2	cis-1,2-Dichloroethene	5.0	U
594-20-7	2,2-Dichloropropane	5.0	U
74-97-5	Bromochloromethane	5.0	U
67-66-3	Chloroform	5.0	U
107-06-2	1,2-Dichloroethane	5.0	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	5.0	U
56-23-5	Carbon Tetrachloride	5.0	U
71-43-2	Benzene	5.0	U
79-01-6	Trichloroethene	5.0	U
78-87-5	1,2-Dichloropropane	5.0	U
74-95-3	Dibromomethane	5.0	U
75-27-4	Bromodichloromethane	5.0	U
10061-01-5	cis-1,3-Dichloropropene	5.0	U
10061-02-6	Trans-1,3-dichloropropene	5.0	U
79-00-5	1,1,2-Trichloroethane	5.0	U
124-48-1	Dibromochloromethane	5.0	U
106-93-4	1,2-Dibromoethane	5.0	U
75-25-2	Bromoform	5.0	U
108-10-1	4-Methyl-2-Pentanone	10	U

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VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-3S

Lab Name: AES, Inc. Contract:

Lab Code: AES Case No.: DE1311 SAS No.: SDG No.: LMW-10

Matrix (soil/water): WATER Lab Sample ID: 130916037-005G

Sample wt/vol: 5.0 (g/mL) ml Lab File ID: d6751.D

Level (low/med): Date Received: 9/16/13

% Moisture: not dec. 100 Date Analyzed: 9/23/13

GC Column: DB624 ID: 0.18 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CAS No.	Compound	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
108-88-3	Toluene	5.0	U
127-18-4	Tetrachloroethene	5.0	U
591-78-6	2-Hexanone	10	U
108-90-7	Chlorobenzene	5.0	U
100-41-4	Ethyl Benzene	5.0	U
126777-61-2	m/p-Xylenes	5.0	U
95-47-6	o-Xylene	5.0	U
100-42-5	Styrene	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U
96-18-4	1,2,3-Trichloropropane	5.0	U
630-20-6	1,1,1,2-Tetrachloroethane	5.0	U
541-73-1	1,3-Dichlorobenzene	5.0	U
106-46-7	1,4-Dichlorobenzene	5.0	U
95-50-1	1,2-Dichlorobenzene	5.0	U
99-87-6	4-Isopropyltoluene	10	U

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-4S

Lab Name: AES, Inc. Contract:

Lab Code: AES Case No.: DE1311 SAS No.: SDG No.: LMW-10

Matrix (soil/water): WATER Lab Sample ID: 130916037-006G

Sample wt/vol: 5.0 (g/mL) ml Lab File ID: d677a.D

Level (low/med): Date Received: 9/16/13

% Moisture: not dec. 100 Date Analyzed: 9/23/13

GC Column: DB624 ID: 0.18 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CAS No.	Compound	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
74-87-3	Chloromethane	10	U
75-01-4	Vinyl chloride	10	U
74-83-9	Bromomethane	10	U
75-00-3	Chloroethane	10	U
75-69-4	Trichlorofluoromethane	5.0	U
75-35-4	1,1-Dichloroethene	5.0	U
74-88-4	Iodomethane	10	U
75-15-0	Carbon disulfide	5.0	U
67-64-1	Acetone	10	U
75-09-2	Methylene Chloride	5.0	U
156-60-5	trans-1,2-Dichloroethene	5.0	U
107-13-1	Acrylonitrile	25	U
75-34-3	1,1-Dichloroethane	5.0	U
108-05-4	Vinyl Acetate	10	U
156-59-2	cis-1,2-Dichloroethene	5.0	U
594-20-7	2,2-Dichloropropane	5.0	U
74-97-5	Bromochloromethane	5.0	U
67-66-3	Chloroform	5.0	U
107-06-2	1,2-Dichloroethane	5.0	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	5.0	U
56-23-5	Carbon Tetrachloride	5.0	U
71-43-2	Benzene	5.0	U
79-01-6	Trichloroethene	5.0	U
78-87-5	1,2-Dichloropropane	5.0	U
74-95-3	Dibromomethane	5.0	U
75-27-4	Bromodichloromethane	5.0	U
10061-01-5	cis-1,3-Dichloropropene	5.0	U
10061-02-6	Trans-1,3-dichloropropene	5.0	U
79-00-5	1,1,2-Trichloroethane	5.0	U
124-48-1	Dibromochloromethane	5.0	U
106-93-4	1,2-Dibromoethane	5.0	U
75-25-2	Bromoform	5.0	U
108-10-1	4-Methyl-2-Pentanone	10	U

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-4S

Lab Name: AES, Inc. Contract:

Lab Code: AES Case No.: DE1311 SAS No.: SDG No.: LMW-10

Matrix (soil/water): WATER Lab Sample ID: 130916037-006G

Sample wt/vol: 5.0 (g/mL) ml Lab File ID: d677a.D

Level (low/med): Date Received: 9/16/13

% Moisture: not dec. 100 Date Analyzed: 9/23/13

GC Column: DB624 ID: 0.18 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CAS No.	Compound	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
108-88-3	Toluene	5.0	U
127-18-4	Tetrachloroethene	5.0	U
591-78-6	2-Hexanone	10	U
108-90-7	Chlorobenzene	5.0	U
100-41-4	Ethyl Benzene	5.0	U
126777-61-2	m/p-Xylenes	5.0	U
95-47-6	o-Xylene	5.0	U
100-42-5	Styrene	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U
96-18-4	1,2,3-Trichloropropane	5.0	U
630-20-6	1,1,1,2-Tetrachloroethane	5.0	U
541-73-1	1,3-Dichlorobenzene	5.0	U
106-46-7	1,4-Dichlorobenzene	5.0	U
95-50-1	1,2-Dichlorobenzene	5.0	U
99-87-6	4-Isopropyltoluene	10	U

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-5S

Lab Name: AES, Inc. Contract:

Lab Code: AES Case No.: DE1311 SAS No.: SDG No.: LMW-10

Matrix (soil/water): WATER Lab Sample ID: 130916037-008G

Sample wt/vol: 5.0 (g/mL) ml Lab File ID: d6752.D

Level (low/med): Date Received: 9/16/13

% Moisture: not dec. 100 Date Analyzed: 9/23/13

GC Column: DB624 ID: 0.18 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CAS No.	Compound	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
74-87-3	Chloromethane	10	U
75-01-4	Vinyl chloride	10	U
74-83-9	Bromomethane	10	U
75-00-3	Chloroethane	10	U
75-69-4	Trichlorofluoromethane	5.0	U
75-35-4	1,1-Dichloroethene	5.0	U
74-88-4	Iodomethane	10	U
75-15-0	Carbon disulfide	5.0	U
67-64-1	Acetone	10	U
75-09-2	Methylene Chloride	5.0	U
156-60-5	trans-1,2-Dichloroethene	5.0	U
107-13-1	Acrylonitrile	25	U
75-34-3	1,1-Dichloroethane	5.0	U
108-05-4	Vinyl Acetate	10	U
156-59-2	cis-1,2-Dichloroethene	5.0	U
594-20-7	2,2-Dichloropropane	5.0	U
74-97-5	Bromochloromethane	5.0	U
67-66-3	Chloroform	5.0	U
107-06-2	1,2-Dichloroethane	5.0	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	5.0	U
56-23-5	Carbon Tetrachloride	5.0	U
71-43-2	Benzene	5.0	U
79-01-6	Trichloroethene	5.0	U
78-87-5	1,2-Dichloropropane	5.0	U
74-95-3	Dibromomethane	5.0	U
75-27-4	Bromodichloromethane	5.0	U
10061-01-5	cis-1,3-Dichloropropene	5.0	U
10061-02-6	Trans-1,3-dichloropropene	5.0	U
79-00-5	1,1,2-Trichloroethane	5.0	U
124-48-1	Dibromochloromethane	5.0	U
106-93-4	1,2-Dibromoethane	5.0	U
75-25-2	Bromoform	5.0	U
108-10-1	4-Methyl-2-Pentanone	10	U

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-5S

Lab Name: AES, Inc. Contract:

Lab Code: AES Case No.: DE1311 SAS No.: SDG No.: LMW-10

Matrix (soil/water): WATER Lab Sample ID: 130916037-008G

Sample wt/vol: 5.0 (g/mL) ml Lab File ID: d6752.D

Level (low/med): Date Received: 9/16/13

% Moisture: not dec. 100 Date Analyzed: 9/23/13

GC Column: DB624 ID: 0.18 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CAS No.	Compound	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
108-88-3	Toluene	5.0	U
127-18-4	Tetrachloroethene	5.0	U
591-78-6	2-Hexanone	10	U
108-90-7	Chlorobenzene	5.0	U
100-41-4	Ethyl Benzene	5.0	U
126777-61-2	m/p-Xylenes	5.0	U
95-47-6	o-Xylene	5.0	U
100-42-5	Styrene	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U
96-18-4	1,2,3-Trichloropropane	5.0	U
630-20-6	1,1,1,2-Tetrachloroethane	5.0	U
541-73-1	1,3-Dichlorobenzene	5.0	U
106-46-7	1,4-Dichlorobenzene	5.0	U
95-50-1	1,2-Dichlorobenzene	5.0	U
99-87-6	4-Isopropyltoluene	10	U

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-7D

Lab Name: AES, Inc. Contract:

Lab Code: AES Case No.: DE1311 SAS No.: SDG No.: LMW-10

Matrix (soil/water): WATER Lab Sample ID: 130916037-001G

Sample wt/vol: 5.0 (g/mL) ml Lab File ID: d6747.D

Level (low/med): Date Received: 9/16/13

% Moisture: not dec. 100 Date Analyzed: 9/23/13

GC Column: DB624 ID: 0.18 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CAS No.	Compound	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
74-87-3	Chloromethane	10	U
75-01-4	Vinyl chloride	10	U
74-83-9	Bromomethane	10	U
75-00-3	Chloroethane	10	U
75-69-4	Trichlorofluoromethane	5.0	U
75-35-4	1,1-Dichloroethene	5.0	U
74-88-4	Iodomethane	10	U
75-15-0	Carbon disulfide	5.0	U
67-64-1	Acetone	10	U
75-09-2	Methylene Chloride	5.0	U
156-60-5	trans-1,2-Dichloroethene	5.0	U
107-13-1	Acrylonitrile	25	U
75-34-3	1,1-Dichloroethane	5.0	U
108-05-4	Vinyl Acetate	10	U
156-59-2	cis-1,2-Dichloroethene	5.0	U
594-20-7	2,2-Dichloropropane	5.0	U
74-97-5	Bromochloromethane	5.0	U
67-66-3	Chloroform	5.0	U
107-06-2	1,2-Dichloroethane	5.0	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	5.0	U
56-23-5	Carbon Tetrachloride	5.0	U
71-43-2	Benzene	5.0	U
79-01-6	Trichloroethene	5.0	U
78-87-5	1,2-Dichloropropane	5.0	U
74-95-3	Dibromomethane	5.0	U
75-27-4	Bromodichloromethane	5.0	U
10061-01-5	cis-1,3-Dichloropropene	5.0	U
10061-02-6	Trans-1,3-dichloropropene	5.0	U
79-00-5	1,1,2-Trichloroethane	5.0	U
124-48-1	Dibromochloromethane	5.0	U
106-93-4	1,2-Dibromoethane	5.0	U
75-25-2	Bromoform	5.0	U
108-10-1	4-Methyl-2-Pentanone	10	U

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-7D

Lab Name: AES, Inc. Contract:

Lab Code: AES Case No.: DE1311 SAS No.: SDG No.: LMW-10

Matrix (soil/water): WATER Lab Sample ID: 130916037-001G

Sample wt/vol: 5.0 (g/mL) ml Lab File ID: d6747.D

Level (low/med): Date Received: 9/16/13

% Moisture: not dec. 100 Date Analyzed: 9/23/13

GC Column: DB624 ID: 0.18 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:

CAS No.	Compound	(ug/L or ug/Kg) ug/L	Q
108-88-3	Toluene	5.0	U
127-18-4	Tetrachloroethene	5.0	U
591-78-6	2-Hexanone	10	U
108-90-7	Chlorobenzene	5.0	U
100-41-4	Ethyl Benzene	5.0	U
126777-61-2	m/p-Xylenes	5.0	U
95-47-6	o-Xylene	5.0	U
100-42-5	Styrene	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U
96-18-4	1,2,3-Trichloropropane	5.0	U
630-20-6	1,1,1,2-Tetrachloroethane	5.0	U
541-73-1	1,3-Dichlorobenzene	5.0	U
106-46-7	1,4-Dichlorobenzene	5.0	U
95-50-1	1,2-Dichlorobenzene	5.0	U
99-87-6	4-Isopropyltoluene	10	U

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-9S

Lab Name: AES, Inc. Contract:

Lab Code: AES Case No.: DE1311 SAS No.: SDG No.: LMW-10

Matrix (soil/water): WATER Lab Sample ID: 130916037-004G

Sample wt/vol: 5.0 (g/mL) ml Lab File ID: d6750.D

Level (low/med): Date Received: 9/16/13

% Moisture: not dec. 100 Date Analyzed: 9/23/13

GC Column: DB624 ID: 0.18 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CAS No.	Compound	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
74-87-3	Chloromethane	10	U
75-01-4	Vinyl chloride	10	U
74-83-9	Bromomethane	10	U
75-00-3	Chloroethane	10	U
75-69-4	Trichlorofluoromethane	5.0	U
75-35-4	1,1-Dichloroethene	5.0	U
74-88-4	Iodomethane	10	U
75-15-0	Carbon disulfide	5.0	U
67-64-1	Acetone	10	U
75-09-2	Methylene Chloride	5.0	U
156-60-5	trans-1,2-Dichloroethene	5.0	U
107-13-1	Acrylonitrile	25	U
75-34-3	1,1-Dichloroethane	5.0	U
108-05-4	Vinyl Acetate	10	U
156-59-2	cis-1,2-Dichloroethene	5.0	U
594-20-7	2,2-Dichloropropane	5.0	U
74-97-5	Bromochloromethane	5.0	U
67-66-3	Chloroform	5.0	U
107-06-2	1,2-Dichloroethane	5.0	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	5.0	U
56-23-5	Carbon Tetrachloride	5.0	U
71-43-2	Benzene	5.0	U
79-01-6	Trichloroethene	5.0	U
78-87-5	1,2-Dichloropropane	5.0	U
74-95-3	Dibromomethane	5.0	U
75-27-4	Bromodichloromethane	5.0	U
10061-01-5	cis-1,3-Dichloropropene	5.0	U
10061-02-6	Trans-1,3-dichloropropene	5.0	U
79-00-5	1,1,2-Trichloroethane	5.0	U
124-48-1	Dibromochloromethane	5.0	U
106-93-4	1,2-Dibromoethane	5.0	U
75-25-2	Bromoform	5.0	U
108-10-1	4-Methyl-2-Pentanone	10	U

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-9S

Lab Name: AES, Inc. Contract:

Lab Code: AES Case No.: DE1311 SAS No.: SDG No.: LMW-10

Matrix (soil/water): WATER Lab Sample ID: 130916037-004G

Sample wt/vol: 5.0 (g/mL) ml Lab File ID: d6750.D

Level (low/med): Date Received: 9/16/13

% Moisture: not dec. 100 Date Analyzed: 9/23/13

GC Column: DB624 ID: 0.18 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CAS No.	Compound	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
108-88-3	Toluene	5.0	U
127-18-4	Tetrachloroethene	5.0	U
591-78-6	2-Hexanone	10	U
108-90-7	Chlorobenzene	5.0	U
100-41-4	Ethyl Benzene	5.0	U
126777-61-2	m/p-Xylenes	5.0	U
95-47-6	o-Xylene	5.0	U
100-42-5	Styrene	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U
96-18-4	1,2,3-Trichloropropane	5.0	U
630-20-6	1,1,1,2-Tetrachloroethane	5.0	U
541-73-1	1,3-Dichlorobenzene	5.0	U
106-46-7	1,4-Dichlorobenzene	5.0	U
95-50-1	1,2-Dichlorobenzene	5.0	U
99-87-6	4-Isopropyltoluene	10	U

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.
LMW-10

Lab Name: Adirondack Environmental Contract: Rome Landfill

Lab Code: AES Case No.: DE 1311 SAS No.: _____ SDG No.: LMW-10

Matrix (soil/water): WATER Lab Sample ID: 130916037-007F

Level (low/med): LOW Date Received: 9/16/2013

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	31.9	B		P
7440-36-0	Antimony	2.0	U		P
7440-38-2	Arsenic	1.6	U	N	P
7440-39-3	Barium	174	B		P
7440-41-7	Beryllium	0.10	U		P
7440-42-8	Boron	754			P
7440-43-9	Cadmium	0.15	U		P
7440-70-2	Calcium	161000			P
7440-47-3	Chromium	6.5	B		P
7440-48-4	Cobalt	3.2	B		P
7440-50-8	Copper	1.1	U		P
7439-89-6	Iron	65800		N*	P
7439-97-6	Mercury	0.15	U		CV
7439-92-1	Lead	3.3			P
7439-95-4	Magnesium	35900			P
7439-96-5	Manganese	911		*	P
7440-02-0	Nickel	7.9	B		P
7440-09-7	Potassium	134000			P
7782-49-2	Selenium	3.1	U		P
7440-22-4	Silver	2.7	U		P
7440-23-5	Sodium	130000			P
7440-28-0	Thallium	8.3	B		P
7440-62-2	Vanadium	10.9	U		P
7440-66-6	Zinc	6.3	B		P

Color Before: _____ Clarity Before: _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

MW-1S

Lab Name: Adirondack Environmental Contract: Rome Landfill

Lab Code: AES Case No.: DE 1311 SAS No.: SDG No.: LMW-10

Matrix (soil/water): WATER Lab Sample ID: 130916037-002F

Level (low/med): LOW Date Received: 9/16/2013

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	10300			P
7440-36-0	Antimony	2.0	U		P
7440-38-2	Arsenic	1.6	U	N	P
7440-39-3	Barium	15.5	B		P
7440-41-7	Beryllium	0.10	U		P
7440-42-8	Boron	4.9	B		P
7440-43-9	Cadmium	0.23	B		P
7440-70-2	Calcium	1130	B		P
7440-47-3	Chromium	2.7	U		P
7440-48-4	Cobalt	1.0	B		P
7440-50-8	Copper	7.5	B		P
7439-89-6	Iron	1320		N*	P
7439-97-6	Mercury	0.15	U		CV
7439-92-1	Lead	2.1	U		P
7439-95-4	Magnesium	354	B		P
7439-96-5	Manganese	23.8		*	P
7440-02-0	Nickel	1.9	B		P
7440-09-7	Potassium	263	B		P
7782-49-2	Selenium	3.1	U		P
7440-22-4	Silver	2.7	U		P
7440-23-5	Sodium	649	B		P
7440-28-0	Thallium	3.3	U		P
7440-62-2	Vanadium	10.9	U		P
7440-66-6	Zinc	25.9			P

Color Before: _____ Clarity Before: _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

MW-2D

Lab Name: Adirondack Environmental Contract: Rome Landfill

Lab Code: AES Case No.: DE 1311 SAS No.: SDG No.: LMW-10

Matrix (soil/water): WATER Lab Sample ID: 130916037-003F

Level (low/med): LOW Date Received: 9/16/2013

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	28.4	B		P
7440-36-0	Antimony	2.0	U		P
7440-38-2	Arsenic	2.1	B	N	P
7440-39-3	Barium	72.0	B		P
7440-41-7	Beryllium	0.10	U		P
7440-42-8	Boron	7.7	B		P
7440-43-9	Cadmium	0.15	U		P
7440-70-2	Calcium	19600			P
7440-47-3	Chromium	2.7	U		P
7440-48-4	Cobalt	0.73	U		P
7440-50-8	Copper	1.1	U		P
7439-89-6	Iron	4700		N*	P
7439-97-6	Mercury	0.15	U		CV
7439-92-1	Lead	2.1	U		P
7439-95-4	Magnesium	3210	B		P
7439-96-5	Manganese	626		*	P
7440-02-0	Nickel	0.46	U		P
7440-09-7	Potassium	2750	B		P
7782-49-2	Selenium	3.1	U		P
7440-22-4	Silver	2.7	U		P
7440-23-5	Sodium	902	B		P
7440-28-0	Thallium	3.3	U		P
7440-62-2	Vanadium	10.9	U		P
7440-66-6	Zinc	1.8	B		P

Color Before: Clarity Before: Texture:

Color After: Clarity After: Artifacts:

Comments:

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

MW-3S

Lab Name: Adirondack Environmental Contract: Rome Landfill

Lab Code: AES Case No.: DE 1311 SAS No.: SDG No.: LMW-10

Matrix (soil/water): WATER Lab Sample ID: 130916037-005F

Level (low/med): LOW Date Received: 9/16/2013

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	17.8	B		P
7440-36-0	Antimony	2.0	U		P
7440-38-2	Arsenic	1.6	U	N	P
7440-39-3	Barium	46.4	B		P
7440-41-7	Beryllium	0.10	U		P
7440-42-8	Boron	34.8	B		P
7440-43-9	Cadmium	0.15	U		P
7440-70-2	Calcium	54800			P
7440-47-3	Chromium	2.7	U		P
7440-48-4	Cobalt	0.73	U		P
7440-50-8	Copper	1.1	U		P
7439-89-6	Iron	19600		N*	P
7439-97-6	Mercury	0.15	U		CV
7439-92-1	Lead	2.1	U		P
7439-95-4	Magnesium	10800			P
7439-96-5	Manganese	929		*	P
7440-02-0	Nickel	0.46	U		P
7440-09-7	Potassium	7890			P
7782-49-2	Selenium	3.1	U		P
7440-22-4	Silver	2.7	U		P
7440-23-5	Sodium	926	B		P
7440-28-0	Thallium	3.4	B		P
7440-62-2	Vanadium	10.9	U		P
7440-66-6	Zinc	2.6	B		P

Color Before: _____ Clarity Before: _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

MW-4S

Lab Name: Adirondack Environmental Contract: Rome Landfill

Lab Code: AES Case No.: DE 1311 SAS No.: SDG No.: LMW-10

Matrix (soil/water): WATER Lab Sample ID: 130916037-006F

Level (low/med): LOW Date Received: 9/16/2013

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	4830			P
7440-36-0	Antimony	9.0	B		P
7440-38-2	Arsenic	1.6	U	N	P
7440-39-3	Barium	22.8	B		P
7440-41-7	Beryllium	0.10	U		P
7440-42-8	Boron	40.9	B		P
7440-43-9	Cadmium	1.1	B		P
7440-70-2	Calcium	12700			P
7440-47-3	Chromium	8.1	B		P
7440-48-4	Cobalt	2.6	B		P
7440-50-8	Copper	75.9			P
7439-89-6	Iron	3820		N*	P
7439-97-6	Mercury	0.15	U		CV
7439-92-1	Lead	22.0			P
7439-95-4	Magnesium	3370	B		P
7439-96-5	Manganese	254		*	P
7440-02-0	Nickel	7.9	B		P
7440-09-7	Potassium	1150	B		P
7782-49-2	Selenium	3.1	U		P
7440-22-4	Silver	2.7	U		P
7440-23-5	Sodium	1540	B		P
7440-28-0	Thallium	4.7	B		P
7440-62-2	Vanadium	10.9	U		P
7440-66-6	Zinc	40.9			P

Color Before: _____ Clarity Before: _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

MW-5S

Lab Name: Adirondack Environmental Contract: Rome Landfill

Lab Code: AES Case No.: DE 1311 SAS No.: SDG No.: LMW-10

Matrix (soil/water): WATER Lab Sample ID: 130916037-008F

Level (low/med): LOW Date Received: 9/16/2013

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	280			P
7440-36-0	Antimony	2.0	U		P
7440-38-2	Arsenic	1.6	U	N	P
7440-39-3	Barium	27.9	B		P
7440-41-7	Beryllium	0.10	U		P
7440-42-8	Boron	1.3	B		P
7440-43-9	Cadmium	0.15	U		P
7440-70-2	Calcium	14600			P
7440-47-3	Chromium	2.7	U		P
7440-48-4	Cobalt	0.73	U		P
7440-50-8	Copper	1.1	U		P
7439-89-6	Iron	5410		N*	P
7439-97-6	Mercury	0.15	U		CV
7439-92-1	Lead	2.1	U		P
7439-95-4	Magnesium	3130	B		P
7439-96-5	Manganese	221		*	P
7440-02-0	Nickel	0.49	B		P
7440-09-7	Potassium	936	B		P
7782-49-2	Selenium	3.1	U		P
7440-22-4	Silver	2.7	U		P
7440-23-5	Sodium	574	B		P
7440-28-0	Thallium	3.3	U		P
7440-62-2	Vanadium	10.9	U		P
7440-66-6	Zinc	2.7	B		P

Color Before: _____ Clarity Before: _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

MW-7D

Lab Name: Adirondack Environmental Contract: Rome Landfill

Lab Code: AES Case No.: DE 1311 SAS No.: SDG No.: LMW-10

Matrix (soil/water): WATER Lab Sample ID: 130916037-001F

Level (low/med): LOW Date Received: 9/16/2013

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	512			P
7440-36-0	Antimony	2.0	U		P
7440-38-2	Arsenic	1.6	U	N	P
7440-39-3	Barium	58.3	B		P
7440-41-7	Beryllium	0.10	U		P
7440-42-8	Boron	131			P
7440-43-9	Cadmium	0.15	B		P
7440-70-2	Calcium	42900			P
7440-47-3	Chromium	5.2	B		P
7440-48-4	Cobalt	0.73	U		P
7440-50-8	Copper	1.1	U		P
7439-89-6	Iron	16100		N*	P
7439-97-6	Mercury	0.15	U		CV
7439-92-1	Lead	9.9			P
7439-95-4	Magnesium	10400			P
7439-96-5	Manganese	1240		*	P
7440-02-0	Nickel	0.46	U		P
7440-09-7	Potassium	7140			P
7782-49-2	Selenium	3.1	U		P
7440-22-4	Silver	2.7	U		P
7440-23-5	Sodium	3490	B		P
7440-28-0	Thallium	8.5	B		P
7440-62-2	Vanadium	10.9	U		P
7440-66-6	Zinc	47.5			P

Color Before: _____ Clarity Before: _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

MW-9S

Lab Name: Adirondack Environmental Contract: Rome Landfill

Lab Code: AES Case No.: DE 1311 SAS No.: SDG No.: LMW-10

Matrix (soil/water): WATER Lab Sample ID: 130916037-004F

Level (low/med): LOW Date Received: 9/16/2013

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	305			P
7440-36-0	Antimony	2.0	U		P
7440-38-2	Arsenic	2.8	B	N	P
7440-39-3	Barium	94.4	B		P
7440-41-7	Beryllium	0.10	U		P
7440-42-8	Boron	3.0	B		P
7440-43-9	Cadmium	0.27	B		P
7440-70-2	Calcium	54300			P
7440-47-3	Chromium	4.7	B		P
7440-48-4	Cobalt	0.73	U		P
7440-50-8	Copper	1.1	U		P
7439-89-6	Iron	5290		N*	P
7439-97-6	Mercury	0.15	U		CV
7439-92-1	Lead	2.1	U		P
7439-95-4	Magnesium	5920			P
7439-96-5	Manganese	601		*	P
7440-02-0	Nickel	4.6	B		P
7440-09-7	Potassium	2860	B		P
7782-49-2	Selenium	3.1	U		P
7440-22-4	Silver	2.7	U		P
7440-23-5	Sodium	34900			P
7440-28-0	Thallium	3.3	U		P
7440-62-2	Vanadium	10.9	U		P
7440-66-6	Zinc	10.1	B		P

Color Before: _____ Clarity Before: _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

Hardness Results

Lab Name: Adirondack Environmental Contract:

Lab Code: AES Case No.: DE 1311 SAS No.: SDG No.: LMW-10

Matrix (soil/water): Water Date Received: 9/16/13

Level (Low/Med): Low

Sample ID	Concentration (mg/L)
LMW-10	954
MW-1S	4
MW-2D	62
MW-3S	181
MW-4S	47
MW-5S	49
MW-7D	150
MW-9S	160

1A-IN

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

LMW-10

Lab Name: AES Contract:

Lab Code: AES Case No.: DE1311 NRAS No.: SDG NO.: LMW-10

Matrix (soil/water): WATER Lab Sample ID: 130916037-007B

Level (low/med): Low Date Received: 09/16/2013

% Solids: 0.0

CAS No.	Analyte	Concentration	C	Q	Units	M
	Alkalinity, Total (As CaCO3)	22.5			MG/L	
	Biochemical Oxygen Demand	35			MG/L	
	Bromide	1	U		MG/L	
	Chloride	99.2			MG/L	
	Nitrate, Nitrogen (As N)	0.255			MG/L	
	Sulfate	2	U		MG/L	
	Chemical Oxygen Demand	127		*	MG/L	
	Chromium, Hexavalent	0.02	U		MG/L	
	Color	30			MG/L	
	Cyanide	0.01	U		MG/L	
	Nitrogen, Ammonia (As N)	78.6			MG/L	
	Nitrogen, Kjeldahl, Total	83.7			MG/L	
	Phenolics, Total Recoverable	0.009		N	MG/L	
	TDS (Residue, Filterable)	1200			MG/L	
	Total Organic Carbon	37.1			MG/L	

Comments:

1A-IN

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-1S

Lab Name: AES Contract:

Lab Code: AES Case No.: DE1311 NRAS No.: SDG NO.: LMW-10

Matrix (soil/water): WATER Lab Sample ID: 130916037-002B

Level (low/med): Low Date Received: 09/16/2013

% Solids: 0.0

CAS No.	Analyte	Concentration	C	Q	Units	M
	Alkalinity, Total (As CaCO3)	1			MG/L	
	Biochemical Oxygen Demand	4	U		MG/L	
	Bromide	1	U		MG/L	
	Chloride	1	U		MG/L	
	Nitrate, Nitrogen (As N)	0.0343			MG/L	
	Sulfate	4.07			MG/L	
	Chemical Oxygen Demand	56.8		*	MG/L	
	Chromium, Hexavalent	0.02	U		MG/L	
	Color	5	U		MG/L	
	Cyanide	0.01	U		MG/L	
	Nitrogen, Ammonia (As N)	0.1	U		MG/L	
	Nitrogen, Kjeldahl, Total	1.4			MG/L	
	Phenolics, Total Recoverable	0.002	U	N	MG/L	
	TDS (Residue, Filterable)	5			MG/L	
	Total Organic Carbon	2.35			MG/L	

Comments:

1A-IN

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-2D

Lab Name: AES Contract:

Lab Code: AES Case No.: DE1311 NRAS No.: SDG NO.: LMW-10

Matrix (soil/water): WATER Lab Sample ID: 130916037-003B

Level (low/med): Low Date Received: 09/16/2013

% Solids: 0.0

CAS No.	Analyte	Concentration	C	Q	Units	M
	Alkalinity, Total (As CaCO3)	60			MG/L	
	Biochemical Oxygen Demand	5			MG/L	
	Bromide	1	U		MG/L	
	Chloride	1	U		MG/L	
	Nitrate, Nitrogen (As N)	0.0343			MG/L	
	Sulfate	8.61			MG/L	
	Chemical Oxygen Demand	23.5		*	MG/L	
	Chromium, Hexavalent	0.02	U		MG/L	
	Color	60			MG/L	
	Cyanide	0.01	U		MG/L	
	Nitrogen, Ammonia (As N)	0.237			MG/L	
	Nitrogen, Kjeldahl, Total	1	U		MG/L	
	Phenolics, Total Recoverable	0.002	U	N	MG/L	
	TDS (Residue, Filterable)	90			MG/L	
	Total Organic Carbon	7.38			MG/L	

Comments:

1A-IN

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-3S

Lab Name: AES Contract:

Lab Code: AES Case No.: DE1311 NRAS No.: SDG NO.: LMW-10

Matrix (soil/water): WATER Lab Sample ID: 130916037-005B

Level (low/med): Low Date Received: 09/16/2013

% Solids: 0.0

CAS No.	Analyte	Concentration	C	Q	Units	M
	Alkalinity, Total (As CaCO3)	210			MG/L	
	Biochemical Oxygen Demand	5			MG/L	
	Bromide	1	U		MG/L	
	Chloride	1	U		MG/L	
	Nitrate, Nitrogen (As N)	0.0333			MG/L	
	Sulfate	5.26			MG/L	
	Chemical Oxygen Demand	47.3		*	MG/L	
	Chromium, Hexavalent	0.02	U		MG/L	
	Color	20			MG/L	
	Cyanide	0.01	U		MG/L	
	Nitrogen, Ammonia (As N)	0.32			MG/L	
	Nitrogen, Kjeldahl, Total	1	U		MG/L	
	Phenolics, Total Recoverable	0.002	U	N	MG/L	
	TDS (Residue, Filterable)	220			MG/L	
	Total Organic Carbon	11.3			MG/L	

Comments:

1A-IN

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-4S

Lab Name: AES Contract:

Lab Code: AES Case No.: DE1311 NRAS No.: SDG NO.: LMW-10

Matrix (soil/water): WATER Lab Sample ID: 130916037-006B

Level (low/med): Low Date Received: 09/16/2013

% Solids: 0.0

CAS No.	Analyte	Concentration	C	Q	Units	M
	Alkalinity, Total (As CaCO3)	760			MG/L	
	Biochemical Oxygen Demand	8			MG/L	
	Bromide	1	U		MG/L	
	Chloride	1	U		MG/L	
	Nitrate, Nitrogen (As N)	0.0233			MG/L	
	Sulfate	11.2			MG/L	
	Chemical Oxygen Demand	859		*	MG/L	
	Chromium, Hexavalent	0.02	U		MG/L	
	Color	70			MG/L	
	Cyanide	0.01	U		MG/L	
	Nitrogen, Ammonia (As N)	0.244			MG/L	
	Nitrogen, Kjeldahl, Total	4.76			MG/L	
	Phenolics, Total Recoverable	0.002	U	N	MG/L	
	TDS (Residue, Filterable)	85			MG/L	
	Total Organic Carbon	35.9			MG/L	

Comments:

1A-IN

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-5S

Lab Name: AES Contract:

Lab Code: AES Case No.: DE1311 NRAS No.: SDG NO.: LMW-10

Matrix (soil/water): WATER Lab Sample ID: 130916037-008B

Level (low/med): Low Date Received: 09/16/2013

% Solids: 0.0

CAS No.	Analyte	Concentration	C	Q	Units	M
	Alkalinity, Total (As CaCO3)	40			MG/L	
	Biochemical Oxygen Demand	4	U		MG/L	
	Bromide	1	U		MG/L	
	Chloride	1	U		MG/L	
	Nitrate, Nitrogen (As N)	0.02	U		MG/L	
	Sulfate	5.83			MG/L	
	Chemical Oxygen Demand	147		*	MG/L	
	Chromium, Hexavalent	0.02	U		MG/L	
	Color	5			MG/L	
	Cyanide	0.01	U		MG/L	
	Nitrogen, Ammonia (As N)	0.1	U		MG/L	
	Nitrogen, Kjeldahl, Total	1	U		MG/L	
	Phenolics, Total Recoverable	0.002	U	N	MG/L	
	TDS (Residue, Filterable)	60			MG/L	
	Total Organic Carbon	3.87			MG/L	

Comments:

1A-IN

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-7D

Lab Name: AES Contract:

Lab Code: AES Case No.: DE1311 NRAS No.: SDG NO.: LMW-10

Matrix (soil/water): WATER Lab Sample ID: 130916037-001B

Level (low/med): Low Date Received: 09/16/2013

% Solids: 0.0

CAS No.	Analyte	Concentration	C	Q	Units	M
	Alkalinity, Total (As CaCO3)	160			MG/L	
	Biochemical Oxygen Demand	6			MG/L	
	Bromide	1	U		MG/L	
	Chloride	1	U		MG/L	
	Nitrate, Nitrogen (As N)	0.0973			MG/L	
	Sulfate	2	U		MG/L	
	Chemical Oxygen Demand	62.1		*	MG/L	
	Chromium, Hexavalent	0.02	U		MG/L	
	Color	70			MG/L	
	Cyanide	0.01	U		MG/L	
	Nitrogen, Ammonia (As N)	0.314			MG/L	
	Nitrogen, Kjeldahl, Total	1.68			MG/L	
	Phenolics, Total Recoverable	0.002	U	N	MG/L	
	TDS (Residue, Filterable)	180			MG/L	
	Total Organic Carbon	27.6			MG/L	

Comments:

1A-IN

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-9S

Lab Name: AES Contract:

Lab Code: AES Case No.: DE1311 NRAS No.: SDG NO.: LMW-10

Matrix (soil/water): WATER Lab Sample ID: 130916037-004B

Level (low/med): Low Date Received: 09/16/2013

% Solids: 0.0

CAS No.	Analyte	Concentration	C	Q	Units	M
	Alkalinity, Total (As CaCO3)	230			MG/L	
	Biochemical Oxygen Demand	4	U		MG/L	
	Bromide	1	U		MG/L	
	Chloride	1	U		MG/L	
	Nitrate, Nitrogen (As N)	0.0511			MG/L	
	Sulfate	14.2			MG/L	
	Chemical Oxygen Demand	61.1		*	MG/L	
	Chromium, Hexavalent	0.02	U		MG/L	
	Color	70			MG/L	
	Cyanide	0.01	U		MG/L	
	Nitrogen, Ammonia (As N)	0.22			MG/L	
	Nitrogen, Kjeldahl, Total	1	U		MG/L	
	Phenolics, Total Recoverable	0.002	U	N	MG/L	
	TDS (Residue, Filterable)	275			MG/L	
	Total Organic Carbon	23.9			MG/L	

Comments: