

ROCHESTER FIRE TRAINING ACADEMY

**2003 ANNUAL GROUNDWATER MONITORING WELL
SAMPLING AND GROUNDWATER TREATMENT PLANT
OPERATIONMONITORING REPORT**

City of Rochester, New York

February 2004

**City of Rochester
Department of Environmental Services
Division of Environmental Quality
30 Church Street - Room 300 B
Rochester, New York 14614**

**ROCHESTER FIRE ACADEMY
ANNUAL GROUNDWATER MONITORING WELL SAMPLING
AND GROUNDWATER TREATMENT PLANT MONITORING REPORT
SEPTEMBER 2002 - AUGUST 2003**

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1.0 INTRODUCTION

1.1 BACKGROUND

The Rochester Fire Training Academy (RFA) site is an 18-acre site located on the west bank of the Genesee River at 1190 Scottsville Road in the City of Rochester, Monroe County, New York. Figures 1-1 and 1-2 illustrate the Site Location and Site Layout. The site is divided into six areas, which include the Fire Academy Entrance, North Disposal Area (NDA) (2.5 acres), Training Grounds Area (TGA) (5.4 acres), Police Training Obstacle Course, South Disposal Area (SDA) (1.0 acres), and the Genesee Valley Park Area (GVPA) (1.0 acres).

The RFA is an active police and fire training academy which has been operated by the City of Rochester since 1954. During the time period from 1954 through 1980, flammable liquids from local industries and other sources were accepted by the RFA as sources of fuel for training purposes. In 1980, the New York State Department of Environmental Conservation (NYSDEC) began investigating the RFAs disposal practices and subsequently directed the removal of more than 200 drums and numerous chemical reagent bottles from the NDA, SDA, and TGA. While no hazardous waste disposal occurred in the GVPA, adjacent to the site along the Genesee River, some surficial contamination of park grounds did occur.

The City of Rochester entered into an Order on Consent with the NYSDEC on June 21, 1989 to investigate the extent of contamination and remediate the site. To address the nature of the contamination and determine the most appropriate alternatives to remediate the site, the City retained Malcolm Pirnie, Inc. to conduct a Remedial Investigation/Feasibility Study (RIFS). The results revealed that soils were contaminated with polychlorinated biphenols (PCBs), lead, cadmium, and volatile organic compounds (VOCs) over a large area of the site. The primary focus was on the TGA, GVPA, and SDA portions of the property. VOC contamination of the groundwater was also found and primarily located in the shallow overburden in the SDA.

The selected remedial action objectives for the groundwater and soils were established to meet applicable standards, criteria, and guidelines (SCGs) and to protect human health and the environment in accordance with the NYSROD clean-up goals. Groundwater treatment plant discharge parameters were established by the Monroe County Department of Environmental Services sewer use permit requirements.

Groundwater contamination at the RFA site, caused by the storage and disposal of solvents, was confined to the SDA. SDA soils were contaminated with VOCs as well as PCBs and metals. Soils in the TGA and the GVPA were contaminated primarily with PCBs and metals.

The remedial design for the site required that soils in the SDA containing total VOCs, PCBs, or cadmium equal to or above 10 mg/kg and/or containing lead concentrations equal to or greater than 250 mg/kg be excavated. The excavated soils were conditioned using a thermal desorber to reduce VOC levels to less than the Action Limit of 10 mg/kg. Following desorption, soils requiring solidification and stabilization were stockpiled in the TGA for additional treatment consisting of mixing the soil with cement

and water to form a slurry. The slurry was then buried in the NDA and later capped with a soil/synthetic barrier layer. Excavated soils containing PCB concentrations greater than or equal to 50 mg/kg were disposed of off-site.

The City installed a groundwater treatment system to address groundwater contamination in the SDA. Contaminated groundwater was collected by a 200-ft long collection trench and pumped via a submersible pump station to the Groundwater Treatment Plant (GWTP). The GWTP processes groundwater through dual particulate filters and an air stripper prior to discharge to the Monroe County Department of Pure Waters sanitary sewer system. Full time treatment of the SDA contaminated groundwater began in March 1998.

1.2 PURPOSE

This report summarizes the results of groundwater treatment system maintenance, operation and sampling and groundwater monitoring well sampling events for the period from September 2002 through August 2003. Summary data collected at the groundwater treatment plant influent, within the process train, treatment plant effluent and monitoring wells is included in the report appendices.

2.0 MONITORING METHODS

2.1 BACKGROUND

Monitoring of the groundwater collection and treatment system was conducted daily throughout the year. This monitoring practice helps to:

- Demonstrate compliance with regulatory requirements associated with operation of the system (i.e., sewer use permit limitations).
- Assist in the ongoing evaluation of the effectiveness of the system in remediating the overburden groundwater in the SDA .
- Determine the degree and frequency of routine operational adjustments and maintenance needs.
- Demonstrate the end of the need to operate the system based on groundwater contaminant concentration.

The weekly groundwater collection and treatment system monitoring logs are included in Appendix A. The logs consist of recorded daily influent rates from the flowmeter at the head of the treatment process, air stripper pressures and other treatment process up keeping measures. Groundwater treatment system monitoring was conducted through the collection and analysis of aqueous samples at the following locations in the process train:

- GWTS influent
- Air stripper effluent and air emissions
- Groundwater monitoring wells

These locations were monitored for baseline contaminant concentrations according to the parameters illustrated in Table 2-1. The GWTS effluent limits were based on limits set by the Monroe County Pure Waters District are listed in Tables 2-2 and 2-3. Air stripper emissions are required to remain below the limits listed in Table 2-4. A schematic of the GWTS is shown in Figure 2-1.

2.2 SAMPLE PROCEDURES

2.2.1 Groundwater Treatment Plant

Ports installed in the treatment system train allow for performance testing of individual unit process components. Performance monitoring was conducted on the effluent stream on a monthly basis and on the influent stream on a quarterly basis. Sampling at the head of the treatment process (i.e., feed tank sample port) was conducted to provide information on the raw groundwater quality and to allow for a comparison with the system effluent to monitor the overall efficiency of the treatment process. Influent

samples were analyzed for: VOCs by EPA Method 601/602; Pesticides and PCBs by EPA Method 608; total RCRA metals; pH; alkalinity and hardness.

The VOC removal efficiency of the air stripper can be measured by comparing VOC concentrations in samples collected at the groundwater treatment system inlet and air stripper outlet sampling ports. Monthly effluent samples were collected and analyzed for: Volatiles by EPA Methods 601/602 and 8015; Pesticides and PBCs by EPA Method 608; Semi-volatiles by EPA 625; total RCRA metals; phosphorous and pH to ensure compliance with the discharge monitoring requirements of the Monroe County Pure Waters District. Effluent samples were collected from the effluent tank discharge port. All samples were collected as single grabs by filling pre-cleaned sample bottles from sample ports.

2.2.2 Groundwater

Groundwater sampling was performed semi-annually using disposable polyethylene bailers. Monitoring well sampling was conducted in accordance with the O&M manual and its Appendices E.1 through E.4. Samples intended for laboratory analyses were stored in the appropriate polyethylene or glass bottles, preserved in the field, and transferred to Paradigm Environmental Services, Inc., located in Rochester, NY. The analytical results for the annual sampling event are included in Appendix B.

2.3 ANALYTICAL METHODOLOGY

Paradigm Environmental Services, Inc., ELAP-certified laboratory No. 10958, analyzed all samples collected. Sampling was conducted according to Table 2-5 and Table 2-6 which identify the analytical parameters, methods, method references, detection limits, holding times, preservatives, and container specifications for all analyses.

Table 2-1 Rochester Fire Training Academy SUMMARY OF ROUTINE GROUNDWATER TREATMENT SYSTEM AND MONITORING WELL SAMPLING				
Location	Purpose	Sample Type	Sample Frequency	Parameters
GWTS Influent ⁽¹⁾	GWTS performance monitoring/ estimate air emission rate	Grab	Quarterly	VOCs (601, 602), PCBs, Metals ⁽²⁾ , pH, temperature, turbidity, hardness, alkalinity
Between Primary & Secondary Carbon Vessels	GWTS performance monitoring	N/A	N/A	N/A
GWTS Effluent ⁽³⁾	GWTS performance monitoring/ discharge compliance monitoring	Grab	Monthly	Total Toxic Organics(TTO) ⁽⁴⁾ , pH, temperature, turbidity, flow rate, Phosphorous, Metals ⁽²⁾
MW- 6I, 7S, 7I, 7D, 8I, 9D, 10S, 10I, 11I, 15S	Monitoring Groundwater Quality	Grab ⁽⁵⁾	Semi-Annually	VOCs (601, 602)
Notes: (1) Collected prior to bag filter unit at Sample Port BV-1. (2) Metals (total includes: arsenic, iron, cadmium, chromium, copper, lead, manganese, nickel, selenium and zinc. (3) AS effluent sample BV-68 eliminated subsequent to removal of carbon vessels. (4) Total toxic organics (TTO) includes analyses for VOCs (601, 602), semi-volatiles (625) and pesticides/PCBs (608). (5) Follow procedures in Appendix E. Also measure water level in each well and in the collection trench piezometers.				

Table 2-2 Rochester Fire Training Academy MONROE COUNTY PURE WATERS PERMIT #705 DISCHARGE LEVELS (Metals)	
Parameter	Limit (ppm)
Phosphorous	10.0
Arsenic	0.5
Cadmium	1.0
Chromium	3.0
Copper	3.0
Lead	1.0
Manganese	5.0
Nickel	3.0
Selenium	2.0
Zinc	5.0
Note: All parameters are analyzed for total concentrations	

Table 2-3 Rochester Fire Training Academy MONROE COUNTY PURE WATERS PERMIT #705 DISCHARGE LEVELS (pH, PCBs and TTOs)	
Parameter	Limit (ppm)
pH	5.5-10.0
Polychlorinated Biphenyls (PCBs)	BDL
Acetone	Monitoring
Methyl Ethyl Ketone (2-Butanone)	Monitoring
Methyl Isobutyl Ketone (4-methyl-2-pentanone)	Monitoring
4-Methylphenol (p-cresol)	Monitoring
Total Toxic Organics (TTO)	2.13 ppm
Notes: BDL = Below detection limit. TTO = The summation of Purgeable Halocarbons (EPA Method 601), Purgeable Aromatics (EPA Method 602), Xylene, acid extractables, base neutrals, pesticides, and PCBs.	

Table 2-4 Rochester Fire Training Academy ACCEPTABLE VOLATILE ORGANIC COMPOUND LOADINGS			
Contaminant	Hourly ERP⁽¹⁾ Emissions (lbs/hr)	Hourly Actual Emissions (lbs/hr)	Annual Emissions (lbs/yr)
Acetone	0.032	0.012	105.00
Chloroform	<0.001	<0.001	0.50
Benzene	<0.001	<0.001	0.60
1,1,1-Trichloroethane	0.158	0.059	519.00
Chloroethane	0.002	0.001	4.90
Vinyl Chloride	0.004	0.002	14.50
Methylene Chloride	0.012	0.004	38.10
Bromodichloromethane	<0.001	<0.001	0.60
1,1-Dichloroethane	0.020	0.008	65.70
1,1-Dichloroethene	0.002	0.001	7.90
2-Butanone	0.003	0.001	9.90
Trichloroethylene	0.019	0.007	61.80
Ethylbenzene	0.007	0.003	22.30
1,2-Dichloroethane	0.001	<0.001	3.00
4-Methyl-2-Pentanone	0.003	0.001	10.50
Toluene	0.018	0.007	59.80
Chlorobenzene	<0.001	<0.001	0.50
Tetrachloroethylene	0.002	0.001	5.80
1,2-Dichloroetene	0.600	0.225	1970.00
Xylene	0.046	0.017	151.00
Notes: ⁽¹⁾ ERP = Emission Rate Potential (highest possible emission rate).			

**Table 2-5
Rochester Fire Training Academy**

ANALYTICAL METHODS AND PROTOCOLS FOR GROUNDWATER TREATMENT SYSTEM MONITORING

Parameter	Method	Method Reference	Holding Time	Preservation	Container
pH, Temperature, Turbidity Phosphorous (Total as P) Hardness Alkalinity	Field 365.4 130.1 310.1	(1) (1) (1)	(2) 28 days 6 months 14 days	None H ₂ SO ₄ to pH<2; Cool to 4°C H ₂ SO ₄ to pH<2 Cool to 4°C	1-500 ml polyethylene bottle 100 ml polyethylene bottle 1-500 ml polyethylene bottle 1-500 ml polyethylene bottle
Total Metals: Arsenic Iron Cadmium Chromium	206.2 200.7 200.7 200.7	(1) (1) (1) (1)	180 days 180 days 180 days 180 days	HNO ₃ to pH <2 HNO ₃ to pH <2 HNO ₃ to pH <2 HNO ₃ to pH <2	1-1 litre polyethylene bottle (Volume as satisfies requirement for all metals listed)
Copper Lead Manganese	200.7 200.7 200.7	(1) (1) (1)	180 days 180 days 180 days	HNO ₃ to pH <2 HNO ₃ to pH <2 HNO ₃ to pH <2	
Nickel Selenium Zinc	200.7 270.2 200.7	(1) (1) (1)	180 days 180 days 180 days	HNO ₃ to pH <2 HNO ₃ to pH <2 HNO ₃ to pH <2	
Total Toxic Organics/ Volatiles: Purgeable Halocarbons Purgeable Aromatics Xylene	601 602 602	(1) (1) (1)	14 days 14 days 14 days	Cool to 4°C, 0.008% Na ₂ S ₂ O ₃ Cool to 4°C, 0.008% Na ₂ S ₂ O ₃ Cool to 4°C, 0.008% Na ₂ S ₂ O ₃	2-40 ml glass vials 2-40 ml glass vials 2-40 ml glass vials
Acid Extractables Base/ Neutral Extractables ⁽⁴⁾ Pesticides PCBs	625 625 608 608	(1) (1) (1) (1)	7 days to extraction; 40 days to analysis	Cool to 4°C Cool to 4°C Cool to 4°C Cool to 4°C	1-1 litre amber glass jug 1-1 litre amber glass jug 1-1 litre amber glass jug 1-1 litre amber glass jug
Other Organics: Acetone Methyl Ethyl Ketone Methyl Isobutyl Ketone	8015 8015 8015	(1) (1) (1)	14 days 14 days 14 days	Cool to 4°C, 0.008% Na ₂ S ₂ O ₃ Cool to 4°C, 0.008% Na ₂ S ₂ O ₃ Cool to 4°C, 0.008% Na ₂ S ₂ O ₃	2-40 ml glass vials 2-40 ml glass vials 2-40 ml glass vials
Notes: (1) 40 CFR Part 136; Chemical Analysis of Water and Wastewater, EPA 600/4-49-020, Revised March 1983. (2) Conduct test immediately following collection of samples. (3) USEPA SW-846 Test Methods for Evaluating Solid Waste, Physical/ Chemical Methods, September 1986, 3rd Edition. (4) Includes analysis for 2-methylphenol.					

**Table 2-6
Rochester Fire Training Academy**

ANALYTICAL METHODS AND PROTOCOLS FOR MONITORING WELL SAMPLING

Parameter	Method	Method Reference	Holding Time	Preservation	Container
pH, Eh, Temperature, Turbidity Specific Conductivity	Field	----	(1)	None	1-500 ml polyethylene bottle
TCL Volatiles	601/ 602	(1)	14 days	4 drops concentrated HCl Cool to 4° C	2-40 ml glass vials w/ teflon-lined septa

Notes:

(1) Conduct test immediately following collection of samples.

Reference:

USEPA SW-846 Test Methods for Evaluating Solid Waste, Physical/ Chemical Methods, September 1986, 3rd Edition.

C:\ATR-1\UANESTUF\QTR-REP\2003RE-1\TABLE2-6.WPD

3.0 SUMMARY OF MONITORING RESULTS

Groundwater and system sampling results for the Groundwater Treatment System throughout the monitoring period are illustrated in Tables 3-1 through 3-3.

3.1 GWTS INFLUENT

Table 3-1 summarizes the results of the Quarterly GWTS Influent sampling events from September 2002 through August 2003. The following VOCs were consistently found in the groundwater treatment system influent:

- Vinyl Chloride
- 1,1-Dichloroethane
- 1,1,1-Trichloroethane
- Trichloroethene
- Toluene

1,1-Dichloroethene was detected in samples from the February 13, 2003 and May 30, 2003 quarterly samples. 1,2-Dichloroethane was also detected in the sample from February 13, 2003. 1,1,1-Trichloroethane is found at the highest contaminant concentrations. Graph 1 illustrates the contaminant concentrations throughout the monitoring period. PCBs were not detected in the GWTS influent during any of the sampling events. Total influent concentrations have declined since the system was started in November 1998. However, the declining trend is approaching a steady state, indicating the possible need to reassess the current treatment technology and operating approach. GWTS influent sampling laboratory analysis results are included in Appendix B.

3.2 AIR STRIPPER

Air Emissions

Air containing volatile organic compounds (VOCs) stripped from the groundwater is discharged from the Air Stripper tower and is therefore an air emission point source. The air stripper is exempt from formal permitting requirements, however the NYSDEC approved air loadings proposed in the GWTS O&M manual. VOC loadings are calculated by a groundwater VOC mass balance through the air stripper. These results are presented in Table 3-2. The mass balance calculation tables are located in Appendix C. One incident of exceedance of the assigned air loading values was noted during the monitoring period. Exceedances of 0.0001 lb/hr, and 0.0005 lb/hr of Vinyl Chloride and 1,1-Dichloroethene respectively were detected on February 13, 2003. Subsequent sampling events indicated no other exceedances.

Effluent

Table 3-3 illustrates VOC concentrations in the air stripper effluent throughout the monitoring

period. Contaminant concentrations after treatment through the Air Stripper were consistently reduced by greater than 99% from the GWTS influent contaminant concentrations. Graph 2 represents the overall trend in the GWTS influent contaminant levels and the Air Stripper post treatment levels from system start-up through August 2003.

A total of 903,163 gallons of contaminated groundwater were treated and discharged from the system from September 3, 2002 through August 29, 2003. Throughout the period of operation the system maintained a 99% rate of reduction of influent contaminant concentrations to effluent concentrations. In addition, based on the mass balance calculation Tables presented in Appendix C and illustrated in Graph 4, approximately 231.7 pounds of VOCs were removed from treated groundwater from September, 2002 through August, 2003, for a total of 2082.6 pounds removed to date.

3.3 GWTS EFFLUENT

The effluent permit limits of the groundwater are the limits of the Sanitary Sewer Industrial Use Permit (IUP)(MCPW permit #705). Monthly sampling is required by the permit to monitor the groundwater treatment plant effluent. The permit limits are illustrated in Tables 2-2 and 2-3. The effluent concentrations are shown in Tables 3-4 and 3-5. All of the effluent samples were below the limits as set by the permit. Total Toxic Organic concentrations in the effluent have remained below permit limits throughout the monitoring period. In most samples, VOCs that were detected in the influent were not present in the effluent. Graph 3 illustrates the GWTS effluent concentrations over time. GWTS effluent sampling laboratory analysis results are also included in Appendix B.

3.4 MONITORING WELLS

Up gradient and down gradient monitoring wells were sampled during the post remediation period. Results from the November 2002 and June 2003 sampling events are shown in Tables 3-6 and 3-7. The down gradient well concentrations are compared to the GA Groundwater Standards and the up gradient well concentrations. This helps to determine the effectiveness and integrity of the remedial measures, including the hydraulic and treatment efficiency of the groundwater collection and treatment system in the SDA. The up gradient wells MW6, MW9 and MW10, are monitored to establish background groundwater quality. The remaining wells are monitored to establish the down gradient water quality. The monitoring well locations are shown in Figure 3-1 (Figure 3-1 from the O&M manual).

Monitoring wells MW6S, MW6I, MW7S, MW7I, MW7D, MW8S, MW8I, MW9S, MW9D, MW10S, MW10I, MW11S, MW11I, and MW15S were sampled on November 13, 2002. Samples were analyzed for volatiles by EPA Methods 601/602. Low level contaminant concentrations were detected in several shallow (MW6S and MW7S) and intermediate depth (MW7I, MW8I, MW11I, and MW15S) monitoring wells.

Historical laboratory data was reviewed and the NYSDEC was petitioned by the City for authorization to eliminate specific monitoring wells from periodic sampling. Based on laboratory results indicating consistent “non-detect” or below guideline level contaminant concentrations, permission to eliminate monitoring wells MW6S, MW7D, MW9S, and MW10S from the sampling program was received on June 9, 2003. Sample frequency for monitoring wells MW8S and MW11S was reduced to annually.

Monitoring wells MW6I, MW7S, MW7I, MW7D, MW8I, MW9D, MW10S, MW10I, MW11I, and MW15S were sampled on June 6, 2003. No significant changes in detected contaminant concentrations were noted from the laboratory analysis results.

Monitoring wells MW7S and MW7I, located immediately down gradient from the SDA recovery trench exhibit the highest contaminant concentrations. Graph 6 illustrates contaminant concentrations in monitoring wells through time. Complete copies of groundwater laboratory analysis results are included in Appendix B.

Table 3-7
City of Rochester Division of Environmental Quality
Rochester Fire Academy
Monitoring Well Sampling Results 06/06/2003

	Parameter	MW6S	MW6I	MW7S	MW7I	MW7D	MW8S	MW8I	MW9D	MW9S	MW10S	MW10I	MW11S	MW11I	MW15S
Total Volatiles (601/602) (ug/L)	Vinyl Chloride	N/A	ND (2.0)	ND (20)	ND (2.0)	ND (2.0)	N/A	57.90	ND (2.0)	N/A	ND (2.0)	ND (2.0)	N/A	61.1	10.1
	Chloroethane	N/A	ND (2.0)	ND(20)	7.81	ND (2.0)	N/A	ND (2.0)	ND (2.0)	N/A	ND (2.0)	ND (2.0)	N/A	ND (2.0)	ND (2.0)
	1,1-Dichloroethene	N/A	ND (2.0)	26.9	4.34	ND (2.0)	N/A	ND (2.0)	ND (2.0)	N/A	ND (2.0)	ND (2.0)	N/A	ND (2.0)	ND (2.0)
	1,1-Dichloroethane	N/A	ND (2.0)	195.0	227.00	ND (2.0)	N/A	3.86	ND (2.0)	N/A	ND (2.0)	ND (2.0)	N/A	ND (2.0)	ND (2.0)
	1,2-Dichloroethane	N/A	ND (2.0)	ND (20)	2.37	ND (2.0)	N/A	ND (2.0)	ND (2.0)	N/A	ND (2.0)	ND (2.0)	N/A	ND (2.0)	3.18
	Tetrachloroethene	N/A	ND (2.0)	ND (20)	ND (2.0)	ND (2.0)	N/A	ND (2.0)	ND (2.0)	N/A	ND (2.0)	ND (2.0)	N/A	ND (2.0)	ND (2.0)
	1,1,1-Trichloroethane	N/A	ND (2.0)	1960.0	126.00	ND (2.0)	N/A	2.33	ND (2.0)	N/A	ND (2.0)	ND (2.0)	N/A	ND (2.0)	ND (2.0)
	Trichloroethene	N/A	ND (2.0)	ND (20)	3.84	ND (2.0)	N/A	ND (2.0)	ND (2.0)	N/A	ND (2.0)	ND (2.0)	N/A	ND (2.0)	ND (2.0)
	MTBE	N/A	ND (2.0)	ND (20)	ND (2.0)	ND (2.0)	N/A	ND (2.0)	ND (2.0)	N/A	ND (2.0)	ND (2.0)	N/A	ND (2.0)	ND (2.0)
	Benzene	N/A	ND (0.7)	ND (7.0)	ND (0.7)	ND (0.7)	N/A	ND (0.7)	ND (0.7)	N/A	ND (0.7)	ND (0.7)	N/A	ND (0.7)	63.4
	Toluene	N/A	ND (2.0)	162.0	ND (2.0)	ND (0.7)	N/A	ND (2.0)	ND (2.0)	N/A	ND (2.0)	ND (2.0)	N/A	ND (2.0)	ND (2.0)

Notes:

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4.0 SUMMARY OF INSPECTION RESULTS

Quarterly Inspection and Maintenance Checks were performed at the site on November 19, 2001; February 11, 2002; May 13, 2002 and August 8, 2002. Copies of the Inspection and Maintenance Checklists are included in Appendix D.

4.1 BACKGROUND

The major components of the groundwater collection trench are the 6-inch diameter slotted drainpipe and the 24-foot deep collection sump. During GWTS operation, water levels within the pump station were maintained within the limits established in the O&M manual, between 20 and 22 feet below grade. There were no problems associated with the groundwater collection trench and sump. The alarms for low level or high levels in the pump station were not sounded during this time period.

4.2 SANITARY SEWER USE PERMIT

The required monthly sampling data was submitted to the Monroe County Pure Waters to comply with the City's industrial sewer use permit. The sampling protocol in the sewer use permit were followed for all sampling practices.

If any of the analytical results exceeded the limits established in the sewer use permit, the County must be notified within 24 hours of the receipt of the analytical results. In the time period of this report, no analytical results exceeded the limits as set forth in the sewer use permit.

Required monthly flow summaries were submitted to the County.

4.3 STORM WATER COLLECTION SYSTEM

STORM WATER collection system, drainage and head wall structures are visually inspected periodically to detect clogging and to confirm they are working properly. To-date no clogging or malfunctioning have been determined.

4.4 LANDFILL COVER SYSTEM

The cover systems within the remedial areas of the RFA are as follows:

North Disposal Area - Soil/Synthetic cover consisting of a 40-mil HDPE liner, 24-inches of barrier soil and 6 inches of topsoil.

South Disposal Area - Soil cover consisting of 6-inches of topsoil.

Training Grounds Area - Asphalt cover consist of base and surface courses.

The City routinely inspected the cover materials and supporting infrastructure in each area. The daily log includes a check for the North and South Disposal Areas. Each of these areas have been inspected daily and indicate no signs of erosion, problems with vegetative cover or exposed liner at the North Disposal Area. The vegetation at the South Disposal Area was periodically trimmed during the summer of 2002. The vegetation at the North Disposal Area was monitored but did not require periodic trimming during the summer of 2002.

4.5 FACILITY ACCESS

The facility access is inspected on a quarterly basis and any required repairs are completed.

Table 3-1
City of Rochester Division of Environmental Quality
Rochester Fire Academy
Influent Quarterly Grab Sampling

Parameter	GWTS Influent			
	11/13/2002	02/13/2003	05/30/2003	08/19/2003
Total Volatiles (601/602) (ug/L)				
Vinyl Chloride	939.0	1,630.0	973.0	ND(1000)
Chloroethane	ND(400)	ND(200)	ND(400)	ND(1000)
1,1-Dichloroethene	ND(400)	1,010.0	812.0	ND(1000)
1,1-Dichloroethane	2,870.0	4,890.0	3,180.0	2,800.0
1,2-Dichloroethane	ND(400)	340.0	ND(400)	ND(1000)
1,1,1-Trichloroethane	18,100.0	23,300.0	22,000.0	20,600.0
Trichloroethene	1,150.0	533.0	1,570.0	1,920.0
Tetrachloroethene	ND(400)	ND(200)	ND(400)	ND(1000)
Benzene	ND(140)	ND(70)	ND(140)	ND(350)
Toluene	2,180.0	1,610.0	2,060.0	2,390.0
Total PCBs (EPA 8080) (ug/L)				
PCB 1016	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)
PCB 1221	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)
PCB 1232	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)
PCB 1242	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)
PCB 1248	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)
PCB 1254	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)
PCB 1260	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)
Total Metals (mg/L)				
Arsenic	0.015	0.014	0.012	< 0.005
Cadmium	< 0.005	< 0.005	< 0.005	< 0.005
Chromium	< 0.010	< 0.010	< 0.010	< 0.010
Copper	< 0.010	< 0.010	< 0.010	< 0.010
Iron (not on IDP)	2.390	1.850	2.060	2.440
Lead	< 0.005	< 0.005	< 0.005	< 0.005
Manganese	0.280	0.527	0.476	0.422
Nickel	< 0.040	< 0.040	< 0.040	< 0.040
Selenium	< 0.005	< 0.005	< 0.005	< 0.005
Zinc	< 0.020	0.030	< 0.020	< 0.020

Table 3-2
City of Rochester Division of Environmental Quality
Rochester Fire Academy
Air Stripper Air Emissions Testing

	Lbs/ hr (Total Concentration)				
Parameter	11/13/2002	02/13/2003	05/30/2003	08/19/2003	Hourly ERP ⁽¹⁾ Emissions (lbs/hr)
Total Volatiles (601/602) (ug/L)					
Vinyl Chloride	0.0007	0.0041	0.0011	0.0000	0.0040
Chloroethane	0.0000	0.0000	0.0000	0.0000	0.0020
1,1-Dichloroethene	0.0000	0.0025	0.0009	0.0000	0.0020
1,1-Dichloroethane	0.0020	0.0122	0.0035	0.0021	0.0200
1,2-Dichloroethane	0.0000	0.0004	0.0000	0.0000	0.0010
Tetrachloroethene	0.0000	0.0000	0.0000	0.0000	0.0020
1,1,1-Trichloroethane	0.0125	0.0580	0.0245	0.0155	0.1580
Trichloroethene	0.0008	0.0013	0.0017	0.0014	0.0190
Benzene	0.0000	0.0000	0.0000	0.0000	<0.001
Toluene	0.0015	0.0040	0.0023	0.0018	0.0180

Note: Calculated from Air Stripper Total Influent Concentrations and Air Stripper Total Effluent Concentrations.
⁽¹⁾ ERP = Emission Rate Potential (highest possible emission rate).

Table 3-3
City of Rochester Division of Environmental Quality
Rochester Fire Academy
Air Stripper Effluent Quarterly Grab Sampling

	Total Concentration (ug/l)			
Parameter	11/13/2002	02/13/2003	05/30/2003	08/19/2003
Total Volatiles (601/602)				
Vinyl Chloride	ND(4.0)	ND(2.0)	3.50	3.35
Chloroethane	ND(4.0)	ND(2.0)	ND(2.0)	ND(2.0)
1,1-Dichloroethene	ND(4.0)	ND(2.0)	ND(2.0)	20.70
1,1-Dichloroethane	15.20	2.80	18.80	ND(2.0)
1,2-Dichloroethane	ND(4.0)	ND(2.0)	9.64	ND(2.0)
Tetrachloroethene	ND(4.0)	ND(2.0)	ND(2.0)	ND(2.0)
1,1,1-Trichloroethane	75.90	6.97	91.80	101.00
Trichloroethene	4.58	ND(2.0)	5.57	8.54
Benzene	ND(0.70)	ND(0.70)	ND(0.70)	ND(0.70)
Toluene	6.85	ND(2.0)	2.76	2.58

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Table 3-4
City of Rochester Division of Environmental Quality
Rochester Fire Academy
Effluent Composite Sampling

	RFA Effluent										
Parameter	09/17/02	10/10/02	11/13/02	01/08/03	02/13/03	03/10/03	04/09/03	05/30/03	06/25/03	07/18/03	08/19/03
Total Metals (mg/L)											
Arsenic	0.017	0.020	0.016	0.0090	0.015	< 0.005	< 0.005	0.014	0.010	0.005	0.011
Cadmium	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Chromium	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	1.370	< 0.010	< 0.010	< 0.010
Copper	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	0.021	< 0.010	< 0.010	< 0.010
Iron (not on IDP)	1.530	2.130	2.810	1.130	2.000	0.933	1.110	6.860	1.350	0.815	1.710
Lead	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Manganese	0.243	0.332	0.408	0.462	0.433	0.128	0.224	0.522	1.870	0.572	0.182
Nickel	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	0.186	< 0.040	< 0.040	< 0.040
Selenium	< 0.005	0.005	0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Zinc	< 0.005	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020
Phosphorous (mg/L)	1.000	6.200	0.920	3.500	1.400	1.600	0.410	1.000	3.200	1.400	2.900

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Table 3-5
City of Rochester Division of Environmental Quality
Rochester Fire Academy
Effluent Grab Sampling

	RFA Effluent ¹										
Parameter	09/17/02	10/10/02	11/13/02	01/08/03	02/13/03	03/10/03	04/09/03	05/30/03	06/25/03	07/18/03	08/19/03
pH (SU)	8.40	N/A	8.12	N/A	N/A	7.95	7.99	7.78	7.87	N/A	7.89
PCBs (608)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
Acetone (8015)	36.60	316.00	332.00	49.10	ND(10)	ND(10)	92.00	192.00	ND(10)	153.00	47.20
2-Butanone (8015)	19.00	242.00	283.00	29.60	ND(5)	ND(5)	39.90	86.80	ND(5)	71.30	21.30
4-methyl-2-pentanone (8015)	8.81	87.60	96.40	ND(5)	ND(5)	ND(5)	11.60	28.90	ND(5)	28.10	9.37
Total Toxic Organics (TTO) ²	132.76	166.20	172.76	38.91	9.77	47.19	22.81	147.67	39.64	53.44	162.98

Notes:

1. All concentrations except pH reported in parts per billion (ppb).
 2. TTO defined as the sum of results from EPA Methods 601/602 + Xylene, 625, and 608.
 3. All sample results subsequent to 5/31/00 reflect elimination of carbon filtration from the process system.
- NA - Not Analyzed.

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Table 3-6
City of Rochester Division of Environmental Quality
Rochester Fire Academy
Monitoring Well Sampling Results 11/13/2002

	Parameter	MW6S	MW6I	MW7S	MW7I	MW7D	MW8S	MW8I	MW9D	MW9S	MW10S	MW10I	MW11S	MW11I	MW15S
Total Volatiles (601/602) (ug/L)	Vinyl Chloride	ND (2.0)	ND (2.0)	ND (20)	4.1	ND (2.0)	ND (2.0)	33.2	ND (2.0)	ND (2.0)	ND (2.0)	ND (2.0)	ND (2.0)	20.9	13.9
	Chloroethane	ND (2.0)	ND (2.0)	503.0	ND (4.0)	ND (2.0)	ND (2.0)	ND (2.0)	ND (2.0)	ND (2.0)	ND (2.0)	ND (2.0)	ND (2.0)	ND (2.0)	ND (2.0)
	1,1-Dichloroethene	ND (2.0)	ND (2.0)	ND (20)	ND (4.0)	ND (2.0)	ND (2.0)	ND (2.0)	ND (2.0)	ND (2.0)	ND (2.0)	ND (2.0)	ND (2.0)	ND (2.0)	ND (2.0)
	1,1-Dichloroethane	ND (2.0)	ND (2.0)	757.0	337.0	ND (2.0)	ND (2.0)	3.5	ND (2.0)	ND (2.0)	ND (2.0)	ND (2.0)	ND (2.0)	ND (2.0)	ND (2.0)
	1,2-Dichloroethane	ND (2.0)	ND (2.0)	ND (20)	ND (4.0)	ND (2.0)	ND (2.0)	ND (2.0)	ND (2.0)	ND (2.0)	ND (2.0)	ND (2.0)	ND (2.0)	ND (2.0)	ND (2.0)
	Tetrachloroethene	ND (2.0)	ND (2.0)	ND (20)	ND (4.0)	ND (2.0)	ND (2.0)	ND (2.0)	ND (2.0)	ND (2.0)	ND (2.0)	ND (2.0)	ND (2.0)	ND (2.0)	ND (2.0)
	1,1,1-Trichloroethane	ND (2.0)	ND (2.0)	112.0	13.1	ND (2.0)	ND (2.0)	ND (2.0)	ND (2.0)	ND (2.0)	ND (2.0)	ND (2.0)	ND (2.0)	ND (2.0)	ND (2.0)
	Trichloroethene	3.8	ND (2.0)	ND (20)	ND (4.0)	ND (2.0)	ND (2.0)	ND (2.0)	ND (2.0)	ND (2.0)	ND (2.0)	ND (2.0)	ND (2.0)	ND (2.0)	ND (2.0)
	Ethylbenzene	ND (2.0)	ND (2.0)	ND (20)	ND (4.0)	ND (2.0)	ND (2.0)	ND (2.0)	ND (2.0)	ND (2.0)	ND (2.0)	ND (2.0)	ND (2.0)	ND (2.0)	ND (2.0)
	Benzene	ND (0.7)	ND (0.7)	ND (7.0)	ND (1.4)	ND (0.7)	ND (0.7)	ND (0.7)	ND (0.7)	ND (0.7)	ND (0.7)	ND (0.7)	ND (2.0)	2.0	ND (2.0)
	MTBE	ND (2.0)	ND (2.0)	ND (20)	ND (4.0)	ND (2.0)	ND (2.0)	ND (2.0)	ND (2.0)	ND (2.0)	ND (2.0)	ND (2.0)	ND (2.0)	ND (2.0)	ND (2.0)
	Toluene	ND (2.0)	ND (2.0)	86.6	ND (4.0)	ND (2.0)	ND (2.0)	ND (2.0)	ND (2.0)	ND (2.0)	ND (2.0)	ND (2.0)	ND (2.0)	ND (2.0)	ND (2.0)

Notes:

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Table 3-7
City of Rochester Division of Environmental Quality
Rochester Fire Academy
Monitoring Well Sampling Results 06/06/2003

	Parameter	MW6S	MW6I	MW7S	MW7I	MW7D	MW8S	MW8I	MW9D	MW9S	MW10S	MW10I	MW11S	MW11I	MW15S
Total Volatiles (601/602) (ug/L)	Vinyl Chloride	N/A	ND (2.0)	ND (20)	ND (2.0)	ND (2.0)	N/A	57.90	ND (2.0)	N/A	ND (2.0)	ND (2.0)	N/A	61.1	10.1
	Chloroethane	N/A	ND (2.0)	ND(20)	7.81	ND (2.0)	N/A	ND (2.0)	ND (2.0)	N/A	ND (2.0)	ND (2.0)	N/A	ND (2.0)	ND (2.0)
	1,1-Dichloroethene	N/A	ND (2.0)	26.9	4.34	ND (2.0)	N/A	ND (2.0)	ND (2.0)	N/A	ND (2.0)	ND (2.0)	N/A	ND (2.0)	ND (2.0)
	1,1-Dichloroethane	N/A	ND (2.0)	195.0	227.00	ND (2.0)	N/A	3.86	ND (2.0)	N/A	ND (2.0)	ND (2.0)	N/A	ND (2.0)	ND (2.0)
	1,2-Dichloroethane	N/A	ND (2.0)	ND (20)	2.37	ND (2.0)	N/A	ND (2.0)	ND (2.0)	N/A	ND (2.0)	ND (2.0)	N/A	ND (2.0)	3.18
	Tetrachloroethene	N/A	ND (2.0)	ND (20)	ND (2.0)	ND (2.0)	N/A	ND (2.0)	ND (2.0)	N/A	ND (2.0)	ND (2.0)	N/A	ND (2.0)	ND (2.0)
	1,1,1-Trichloroethane	N/A	ND (2.0)	1960.0	126.00	ND (2.0)	N/A	2.33	ND (2.0)	N/A	ND (2.0)	ND (2.0)	N/A	ND (2.0)	ND (2.0)
	Trichloroethene	N/A	ND (2.0)	ND (20)	3.84	ND (2.0)	N/A	ND (2.0)	ND (2.0)	N/A	ND (2.0)	ND (2.0)	N/A	ND (2.0)	ND (2.0)
	MTBE	N/A	ND (2.0)	ND (20)	ND (2.0)	ND (2.0)	N/A	ND (2.0)	ND (2.0)	N/A	ND (2.0)	ND (2.0)	N/A	ND (2.0)	ND (2.0)
	Benzene	N/A	ND (0.7)	ND (7.0)	ND (0.7)	ND (0.7)	N/A	ND (0.7)	ND (0.7)	N/A	ND (0.7)	ND (0.7)	N/A	ND (0.7)	63.4
	Toluene	N/A	ND (2.0)	162.0	ND (2.0)	ND (0.7)	N/A	ND (2.0)	ND (2.0)	N/A	ND (2.0)	ND (2.0)	N/A	ND (2.0)	ND (2.0)

Notes:

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4.0 SUMMARY OF INSPECTION RESULTS

Quarterly Inspection and Maintenance Checks were performed at the site on November 13, 2002; February 13, 2003; May 30, 2003 and August 20, 2003. Copies of the Inspection and Maintenance Checklists are included in Appendix D.

4.1 BACKGROUND

The major components of the groundwater collection trench are the 6-inch diameter slotted drainpipe and the 24-foot deep collection sump. During GWTS operation, water levels within the pump station were maintained within the limits established in the O&M manual, between 20 and 22 feet below grade. There were no problems associated with the groundwater collection trench and sump. The alarms for low level or high levels in the pump station were not sounded during this time period.

4.2 SANITARY SEWER USE PERMIT

The required monthly sampling data was submitted to the Monroe County Pure Waters to comply with the City's industrial sewer use permit. The sampling protocol in the sewer use permit were followed for all sampling practices.

If any of the analytical results exceeded the limits established in the sewer use permit, the County must be notified within 24 hours of the receipt of the analytical results. In the time period of this report, no analytical results exceeded the limits as set forth in the sewer use permit.

Required monthly flow summaries were submitted to the County.

4.3 STORM WATER COLLECTION SYSTEM

STORM WATER collection system, drainage and head wall structures are visually inspected periodically to detect clogging and to confirm they are working properly. To-date no clogging or malfunctioning have been determined.

4.4 LANDFILL COVER SYSTEM

The cover systems within the remedial areas of the RFA are as follows:

North Disposal Area - Soil/Synthetic cover consisting of a 40-mil HDPE liner, 24-inches of barrier soil and-6 inches of topsoil.

South Disposal Area - Soil cover consisting of 6-inches of topsoil.

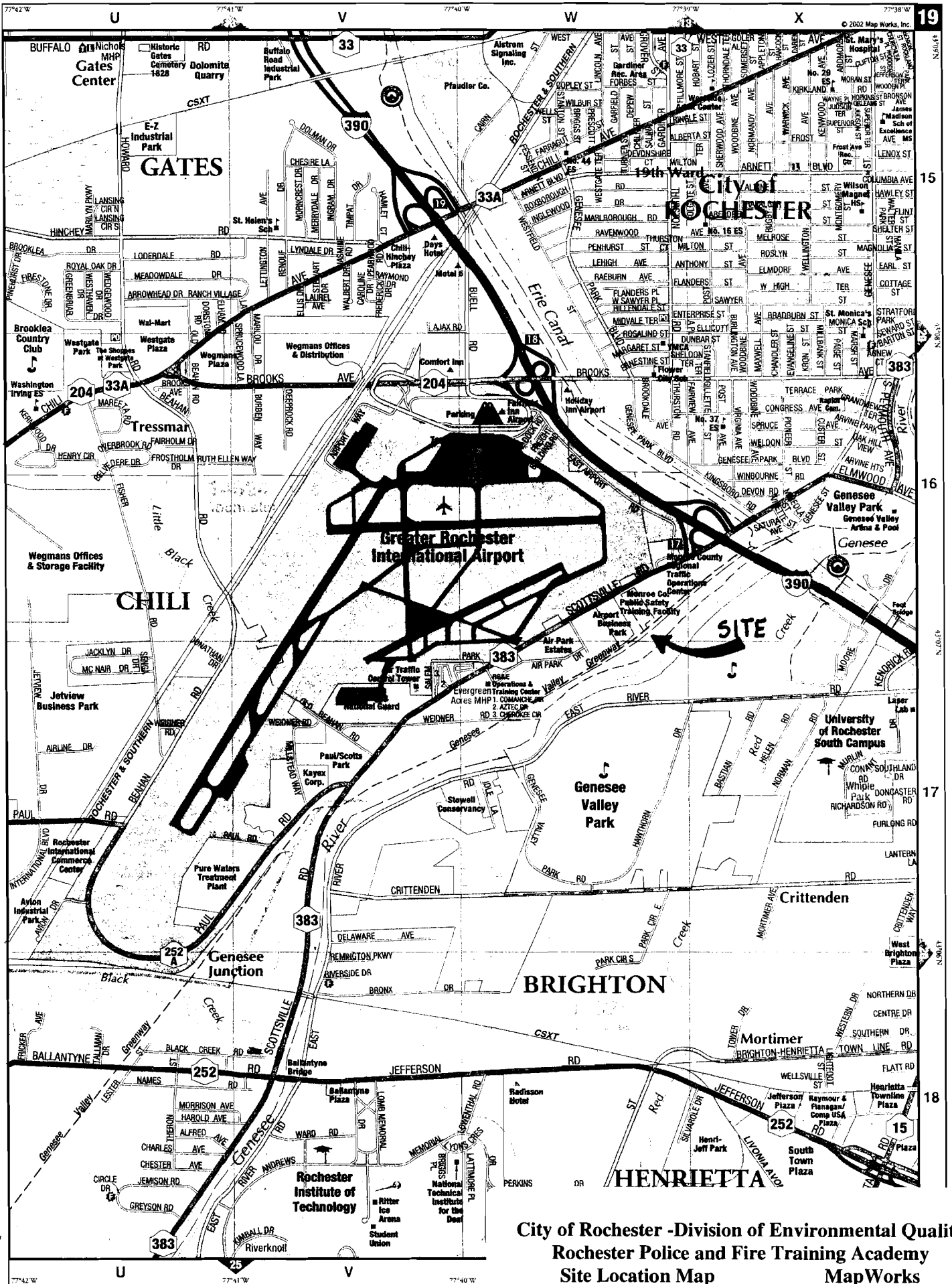
Training Grounds Area - Asphalt cover consist of base and surface courses.

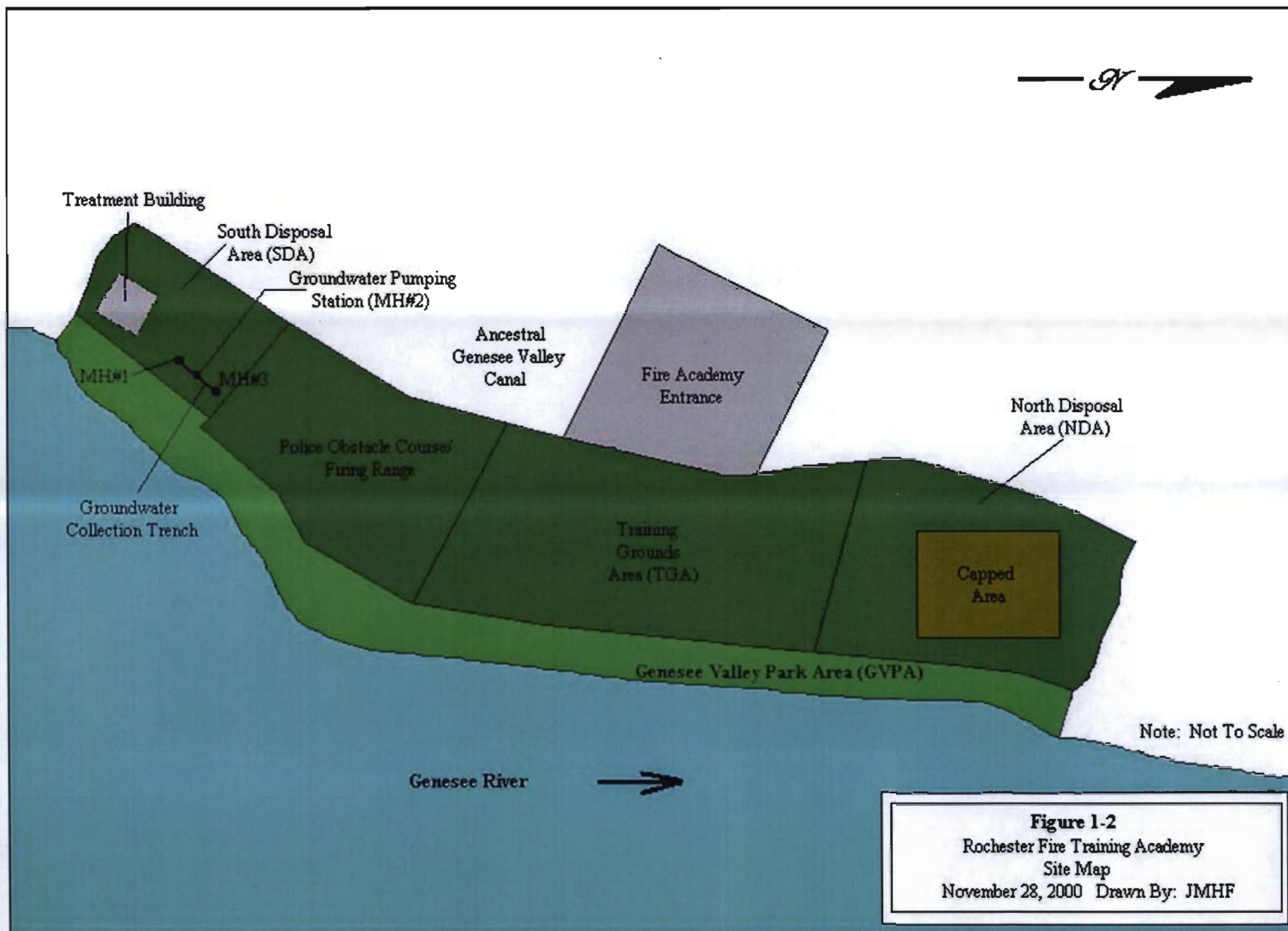
The City routinely inspected the cover materials and supporting infrastructure in each area. The daily log includes a check for the North and South Disposal Areas. Each of these areas have been inspected daily and indicate no signs of erosion, problems with vegetative cover or exposed liner at the North Disposal Area. The vegetation at the South Disposal Area was periodically trimmed during the summer of 2003. The vegetation at the North Disposal Area was monitored but did not require trimming during the summer of 2003.

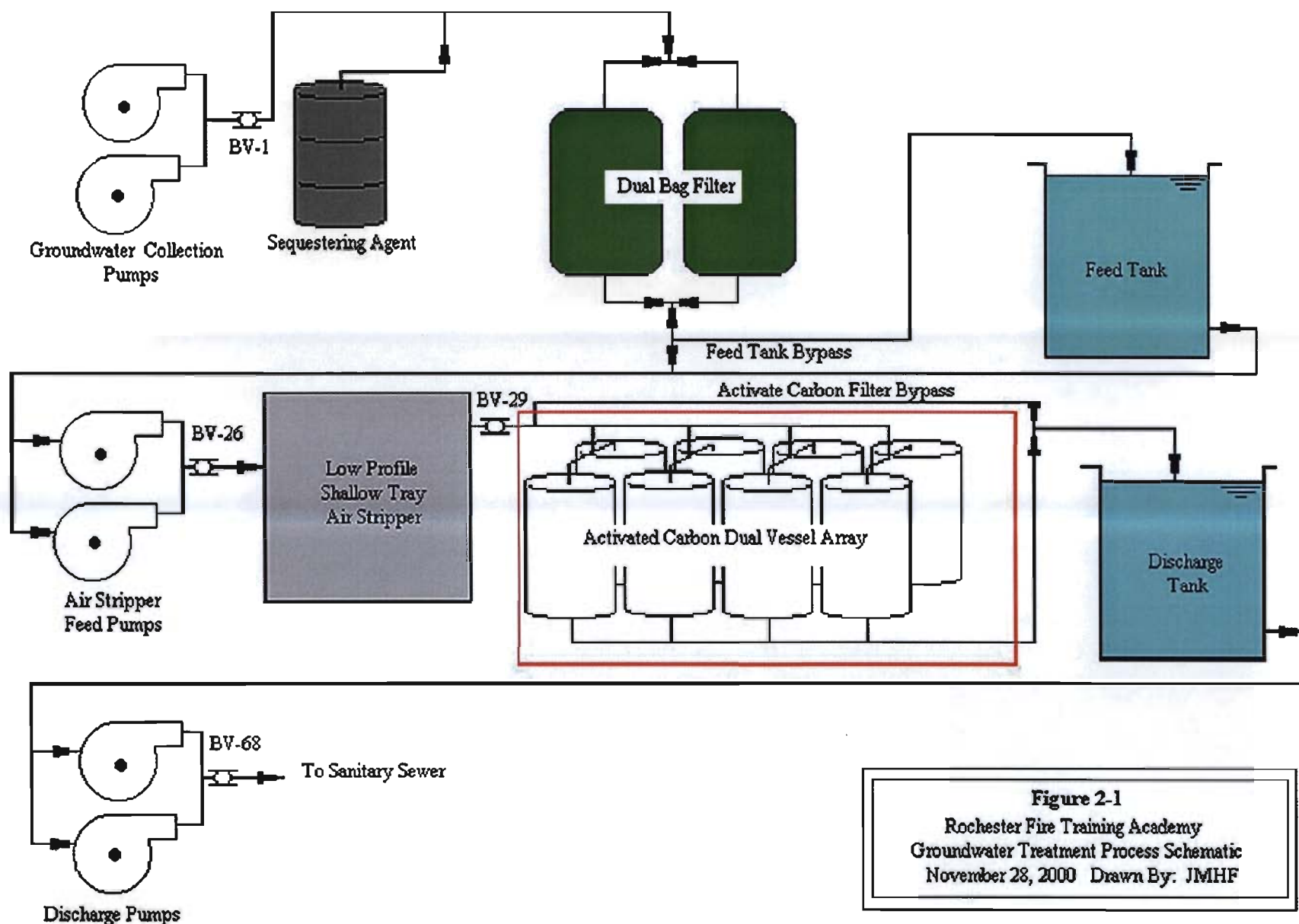
4.5 FACILITY ACCESS

The facility access is inspected on a quarterly basis and any required repairs are completed.

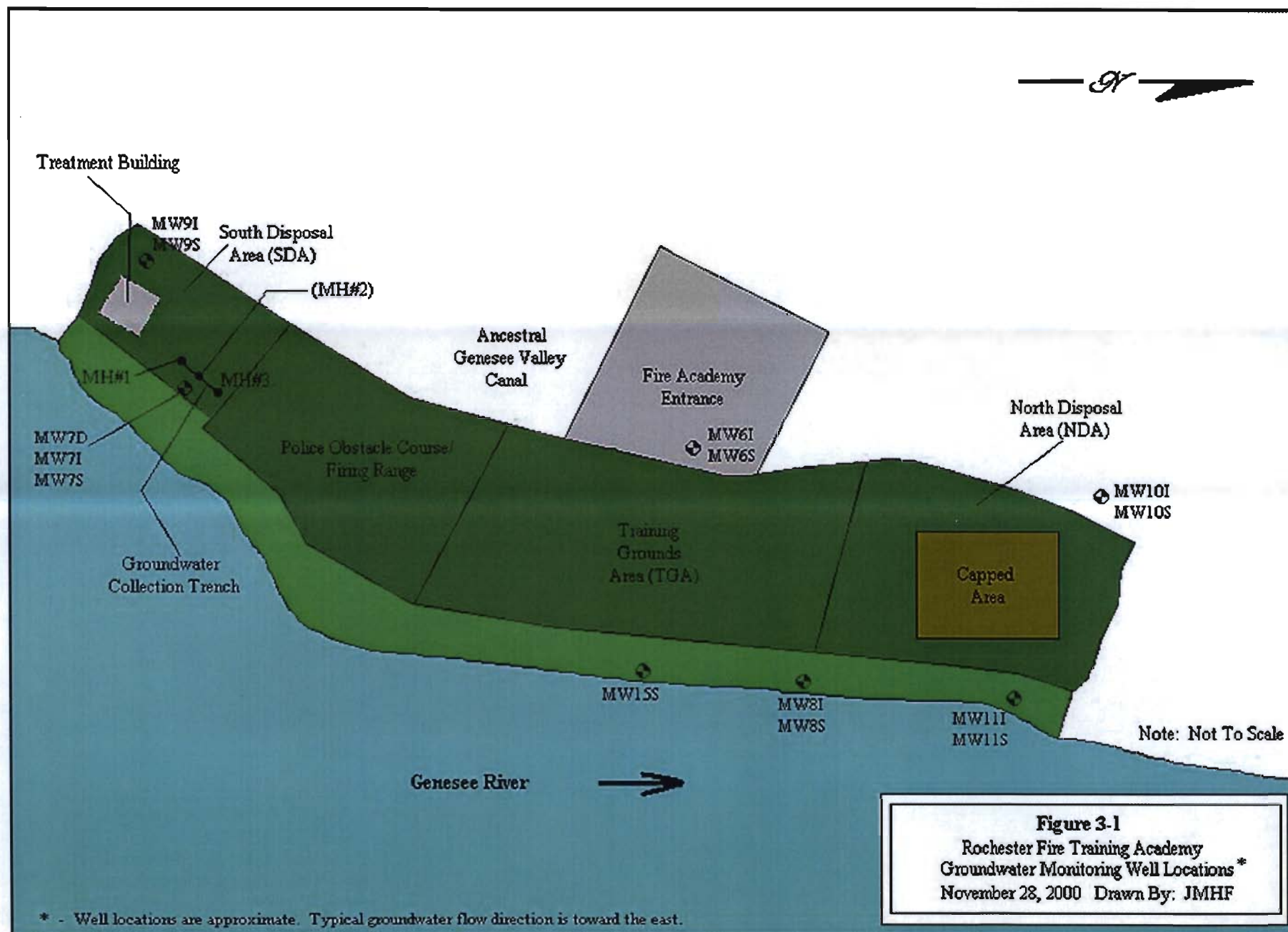
Figures





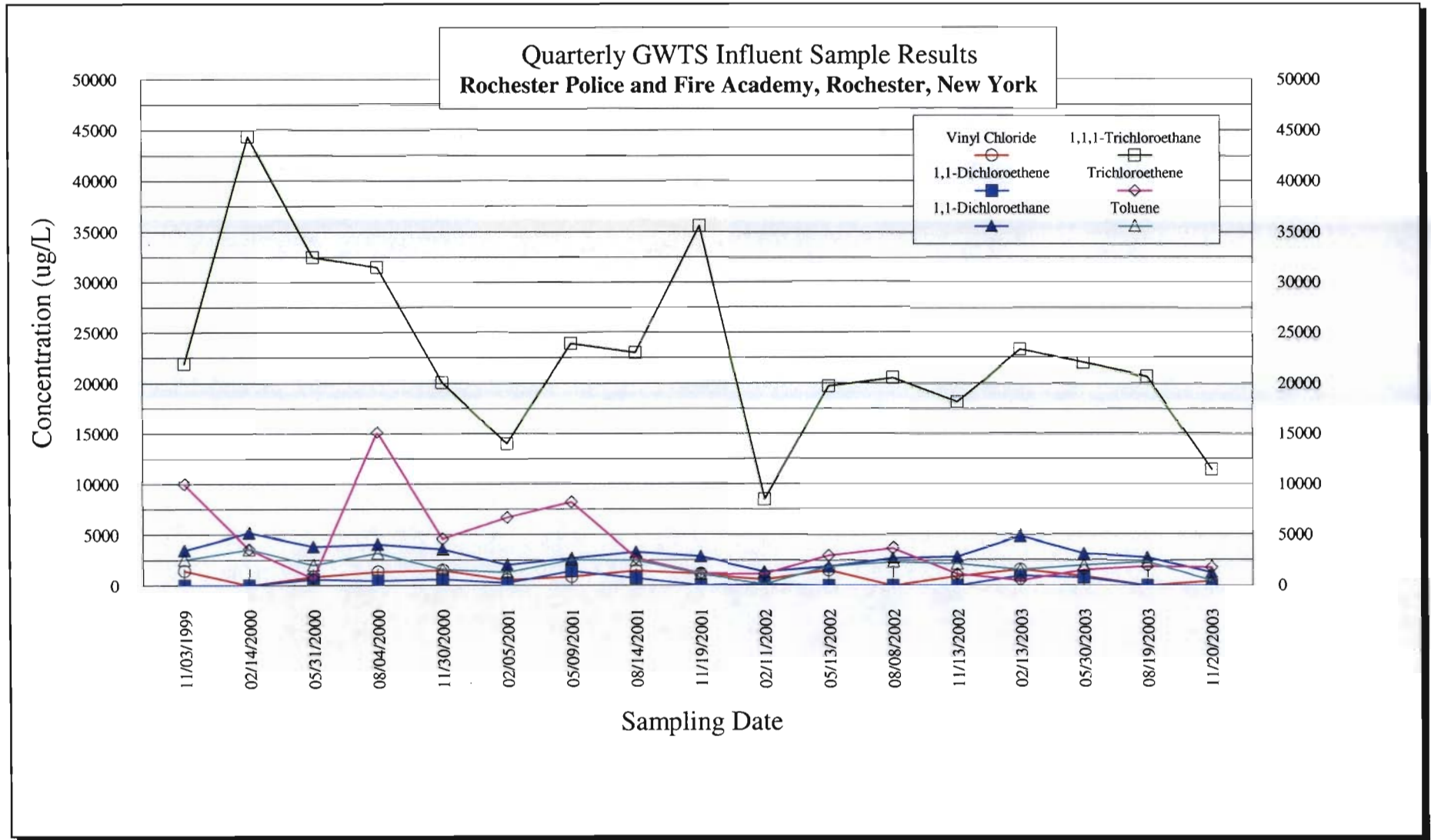


Note: Activated Carbon Drums removed from the system on May 30, 2000.

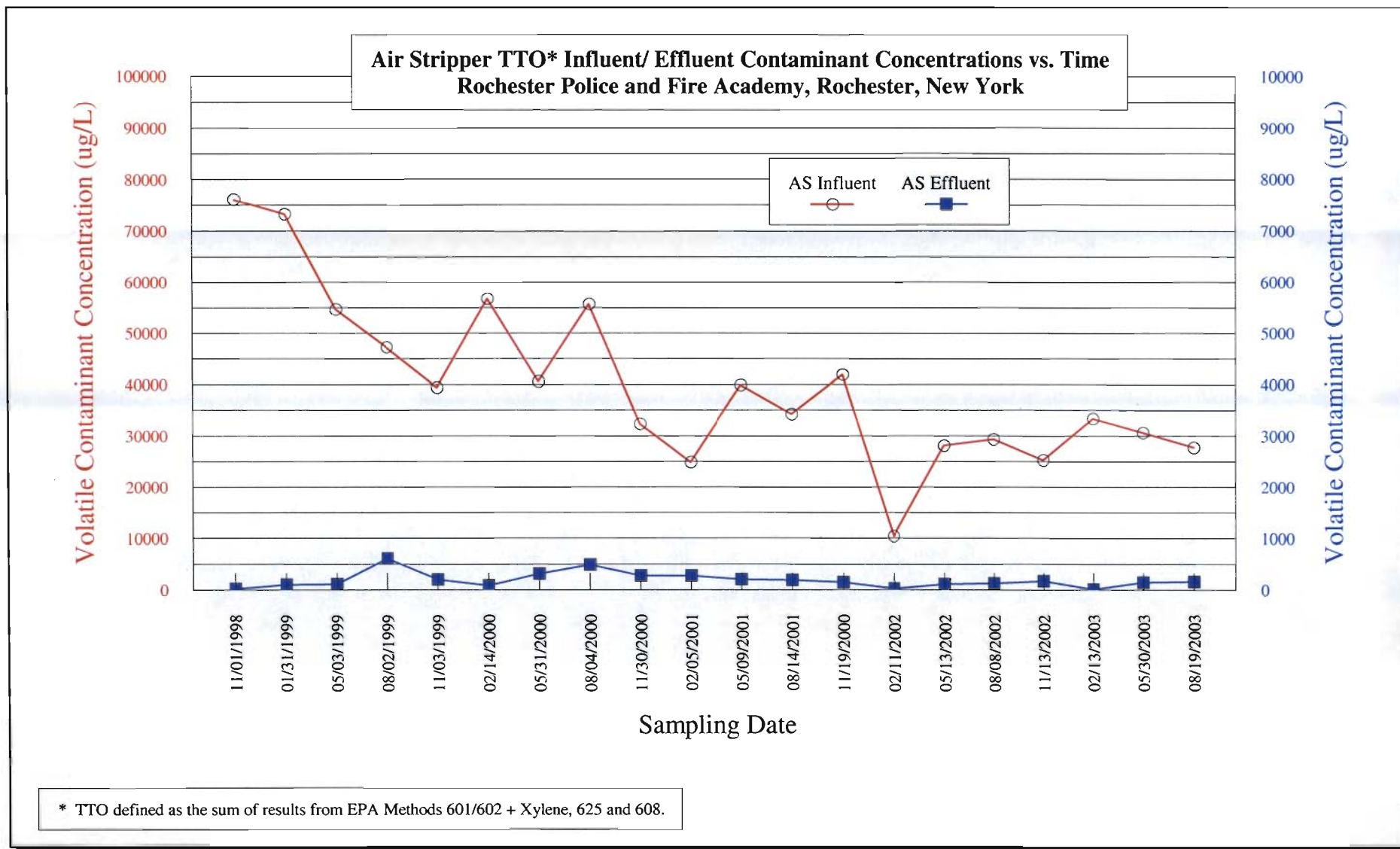


Graphs

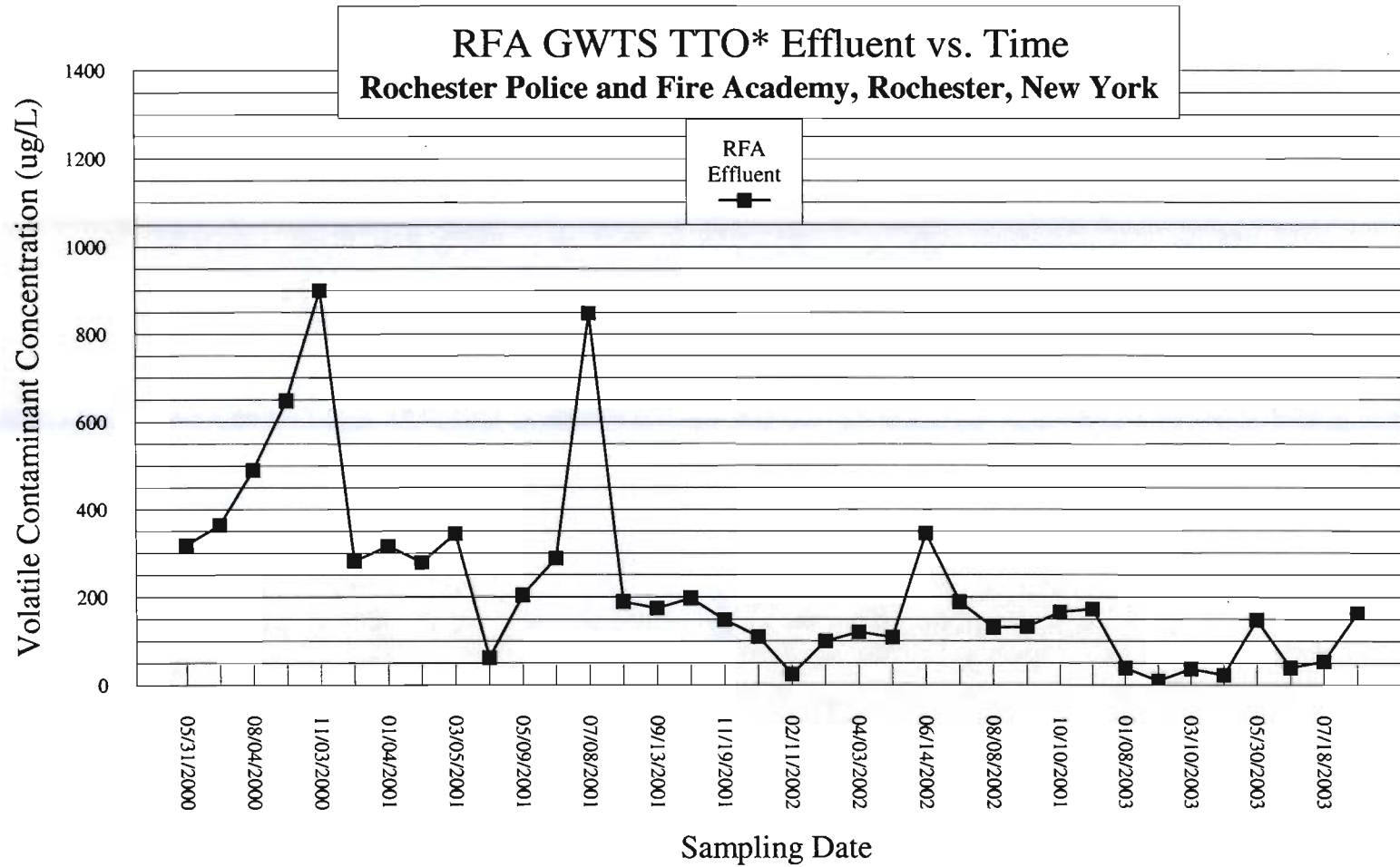
Graph 1



Graph 2

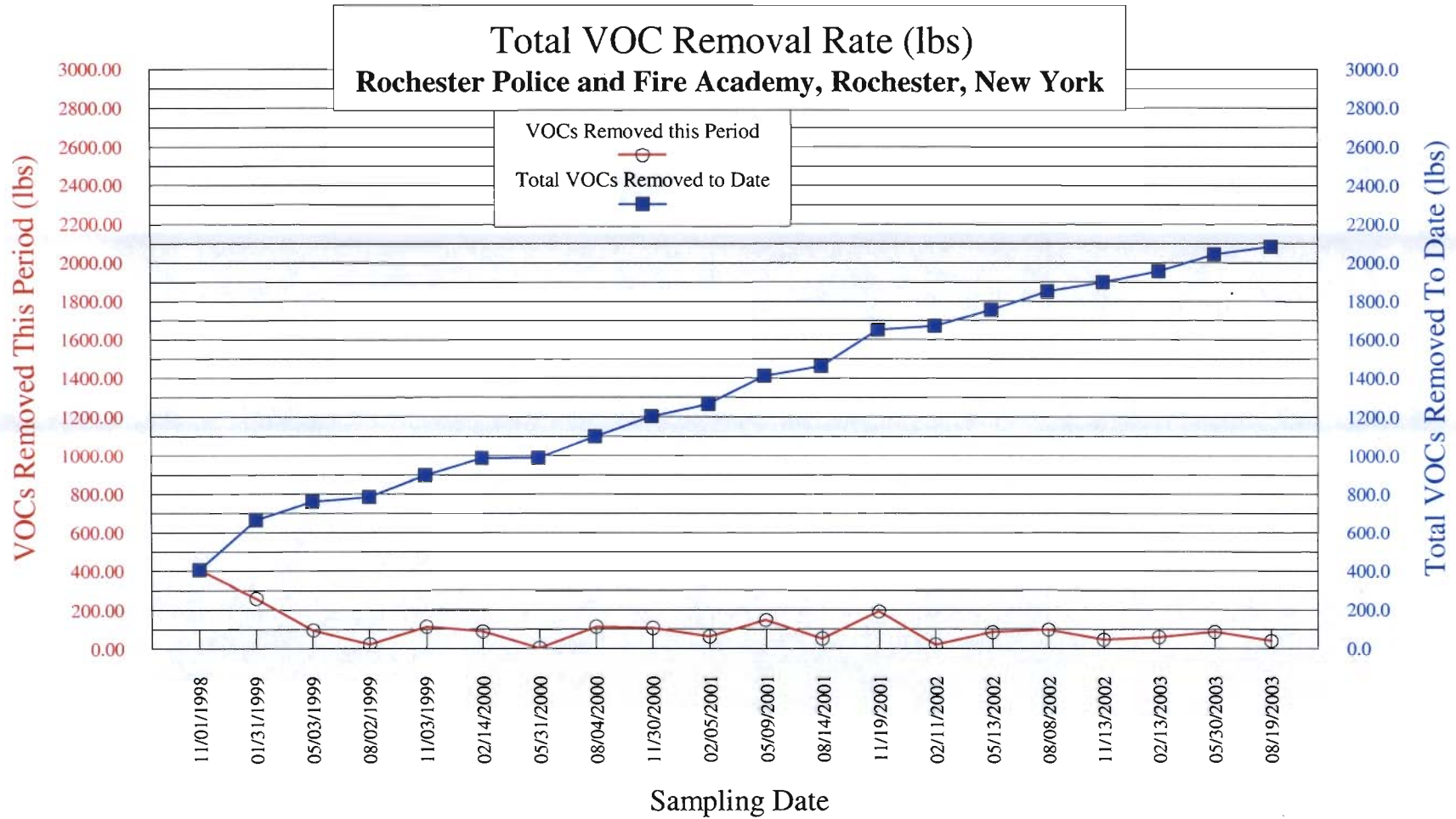


Graph 3

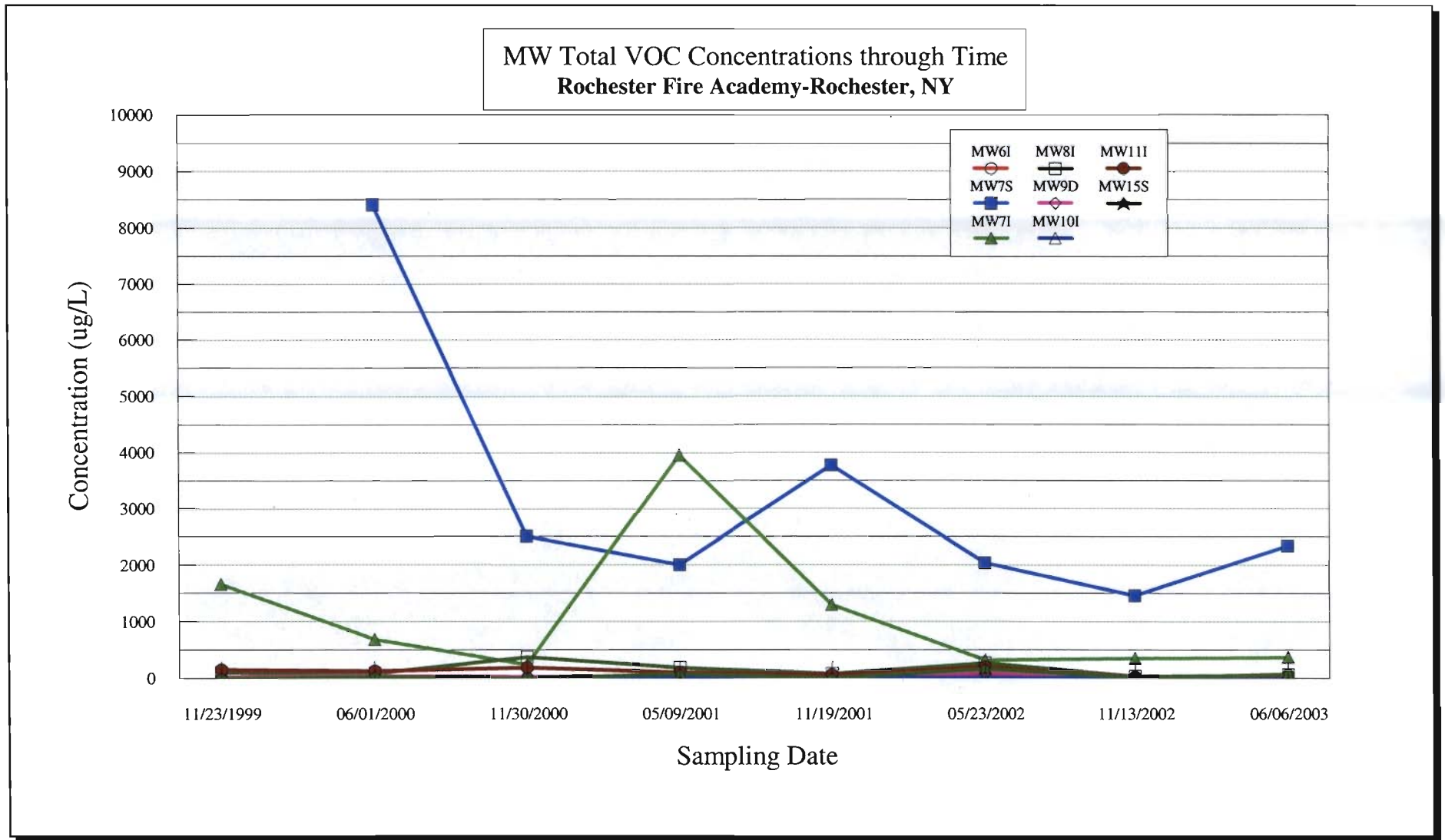


* TTO defined as the sum of results from EPA Methods 601/602 + Xylene, 625 and 608.

Graph 4



Graph 5



Appendix A
GWTS Weekly Logs

Rochester Fire Academy Weekly Log

Date	09/03/2002	09/04/2002	09/05/2002	09/06/2002	09/09/2002	09/10/2002	09/11/2002
Influent Total (gallons)	4,382,993	4,384,738	4,386,492	4,388,324	4,396,164	4,397,968	4,399,720
Daily Influent Total (gallons)	8,952	1,745	1,754	1,832	7,840	1,804	1,752
Effluent Total (gallons)	3,927,600	3,929,591	3,931,241	3,932,984	3,940,140	3,942,356	3,944,075
Daily Effluent Total (gallons)	8,371	1,991	1,650	1,743	7,156	2,216	1,719
Building Inlet Gauge (gpm)	39	39	39	39	39	39	39
Lead Bag Filter Inlet/ Outlet (psi)	5/5	5/5	5/5	5/5	5/5	5/5	5/5
Lag Bag Filter Inlet/Outlet (psi)	0/0	0/0	0/0	0/0	0/0	0/0	0/0
Feed Tank Pump (5 to 20 psi)	20	20	20	20	20	20	20
Air Stripper Pressure (psi)	13.0	13.0	13.0	13.0	13.0	13.0	13.0
Pump 400 (psi)	-	-	-	-	-	-	-
Pump 401 (psi)	9	9	9	9	9	9	9
Carbon Drum 300 (inlet/outlet)							
Carbon Drum 301 (inlet/outlet)							
Carbon Drum 302 (inlet/outlet)							
Carbon Drum 303 (inlet/outlet)							
Carbon Drum 304 (inlet/outlet)							
Carbon Drum 305 (inlet/outlet)							
Carbon Drum 306 (inlet/outlet)							
Carbon Drum 307 (inlet/outlet)							
Sequestering Agent Level (inches)	29"	24"	24"	21"	20"	20"	20"
Visual Inspection NDA	✓	✓	✓	✓	✓	✓	✓
Visual Inspection TGA	✓	✓	✓	✓	✓	✓	✓
Cleaned/Changed Bag Filter #1							
Cleaned/Changed Bag Filter #2							
Cleaned Feed/ Discharge Tanks							
Performed Monthly/Quarterly Sampling							
Tested Sump Pump Operation							
Cleaned Sump and Drain							
Additional Tasks/ Notes:							
ON:	6100	6100	6100	6100	6100	6100	6100
OFF:	5900	5900	5900	5900	5900	5900	5900

Rochester Fire Academy Weekly Log

Date	09/12/2002	09/13/2002	09/16/2002	09/17/2002	09/18/2002	09/19/2002	09/20/2002
Influent Total (gallons)	4,401,533	4,404,195	4,409,473	4,411,315	4,413,942	4,415,697	4,418,390
Daily Influent Total (gallons)	1,813	2,662	5,278	1,842	2,627	1,755	2,693
Effluent Total (gallons)	3,945,717	3,947,460	3,953,761	3,955,494	3,957,628	3,959,312	3,961,020
Daily Effluent Total (gallons)	1,642	1,743	6,301	10,507	2,134	1,684	1,708
Building Inlet Gauge (gpm)	39	39	39	39	39	39	39
Lead Bag Filter Inlet/ Outlet (psi)	5/5	5/5	5/5	5/5	5/5	5/5	5/5
Lag Bag Filter Inlet/Outlet (psi)	0/0	0/0	0/0	0/0	0/0	0/0	0/0
Feed Tank Pump (5 to 20 psi)	20	20	20	20	20	20	20
Air Stripper Pressure (psi)	13.0	13.0	13.0	13.0	13.0	13.0	13.0
Pump 400 (psi)	-	-	-	-	-	-	-
Pump 401 (psi)	9	9	9	9	9	9	9
Carbon Drum 300 (inlet/outlet)							
Carbon Drum 301 (inlet/outlet)							
Carbon Drum 302 (inlet/outlet)							
Carbon Drum 303 (inlet/outlet)							
Carbon Drum 304 (inlet/outlet)							
Carbon Drum 305 (inlet/outlet)							
Carbon Drum 306 (inlet/outlet)							
Carbon Drum 307 (inlet/outlet)							
Sequestering Agent Level (inches)	15.5"	10.5" add	33"	27.5"	23"	23"	23"
Visual Inspection NDA	✓	✓	✓	✓	✓	✓	✓
Visual Inspection TGA	✓	✓	✓	✓	✓	✓	✓
Cleaned/Changed Bag Filter #1							
Cleaned/Changed Bag Filter #2							
Cleaned Feed/ Discharge Tanks							
Performed Monthly/Quarterly Sampling				✓			
Tested Sump Pump Operation							
Cleaned Sump and Drain							
Additional Tasks/ Notes:							
ON:	6000	6000	6000	6000	6000	6000	6000
OFF:	5800	5800	5800	5800	5800	5800	5800

Rochester Fire Academy Weekly Log

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Rochester Fire Academy Weekly Log

Date	10/01/2002	10/02/2002	10/03/2002	10/04/2002	10/07/2002	10/08/2002	10/09/2002
Influent Total (gallons)	4,440,600	4,443,278	4,445,962	4,447,723	4,454,892	4,457,156	4,459,313
Daily Influent Total (gallons)	1,760	2,678	2,684	1,761	7,169	2,264	2,157
Effluent Total (gallons)	3,983,223	3,986,187	3,987,983	3,990,070	3,996,834	3,998,520	4,001,488
Daily Effluent Total (gallons)	1,721	2,964	1,796	2,087	6,764	1,686	2,968
Building Inlet Gauge (gpm)	40	40	40	40	40	40	40
Lead Bag Filter Inlet/ Outlet (psi)	5/5	5/5	5/5	5/5	5/5	5/5	5/5
Lag Bag Filter Inlet/Outlet (psi)	0/0	0/0	0/0	0/0	0/0	0/0	0/0
Feed Tank Pump (5 to 20 psi)	20	20	20	20	20	20	20
Air Stripper Pressure (psi)	13.0	13.0	13.0	13.0	13.0	13.0	13.0
Pump 400 (psi)	-	-	-	-	-	-	-
Pump 401 (psi)	9	9	9	9	9	9	9
Carbon Drum 300 (inlet/outlet)							
Carbon Drum 301 (inlet/outlet)							
Carbon Drum 302 (inlet/outlet)							
Carbon Drum 303 (inlet/outlet)							
Carbon Drum 304 (inlet/outlet)							
Carbon Drum 305 (inlet/outlet)							
Carbon Drum 306 (inlet/outlet)							
Carbon Drum 307 (inlet/outlet)							
Sequestering Agent Level (inches)	14"	14"	9"	6" add	23"	18.5"	14"
Visual Inspection NDA	✓	✓	✓	✓	✓	✓	✓
Visual Inspection TGA	✓	✓	✓	✓	✓	✓	✓
Cleaned/Changed Bag Filter #1							
Cleaned/Changed Bag Filter #2							
Cleaned Feed/ Discharge Tanks							
Performed Monthly/Quarterly Sampling							
Tested Sump Pump Operation							
Cleaned Sump and Drain							
Additional Tasks/ Notes:							
ON:	6000	6000	6000	6000	6000	6000	6000
OFF:	5800	5800	5800	5800	5800	5800	5800

Rochester Fire Academy Weekly Log

Date	10/10/2002	10/11/2002	10/16/2002	10/17/2002	10/18/2002	10/21/2002	10/22/2002
Influent Total (gallons)	4,461,079	4,463,720	4,474,760	4,477,480	4,480,195	4,486,480	4,489,192
Daily Influent Total (gallons)	1,766	2,641	11,040	2,720	2,715	6,285	2,712
Effluent Total (gallons)	4,003,187	4,005,359	4,015,894	4,018,881	4,020,947	4,027,493	4,029,672
Daily Effluent Total (gallons)	1,699	2,172	10,535	10,507	2,066	6,546	2,179
Building Inlet Gauge (gpm)	40	40	40	40	40	40	40
Lead Bag Filter Inlet/ Outlet (psi)	5/5	5/5	5/5	5/5	5/5	5/5	5/5
Lag Bag Filter Inlet/Outlet (psi)	0/0	0/0	0/0	0/0	0/0	0/0	0/0
Feed Tank Pump (5 to 20 psi)	20	20	20	20	20	20	20
Air Stripper Pressure (psi)	13.0	13.0	13.0	13.0	13.0	13.0	13.0
Pump 400 (psi)	-	-	-	-	-	-	-
Pump 401 (psi)	9	9	9	9	9	9	9
Carbon Drum 300 (inlet/outlet)							
Carbon Drum 301 (inlet/outlet)							
Carbon Drum 302 (inlet/outlet)							
Carbon Drum 303 (inlet/outlet)							
Carbon Drum 304 (inlet/outlet)							
Carbon Drum 305 (inlet/outlet)							
Carbon Drum 306 (inlet/outlet)							
Carbon Drum 307 (inlet/outlet)							
Sequestering Agent Level (inches)	12.5" add	29"	5.5" add	29"	24"	12"	7" add
Visual Inspection NDA	✓	✓	✓	✓	✓	✓	✓
Visual Inspection TGA	✓	✓	✓	✓	✓	✓	✓
Cleaned/Changed Bag Filter #1							
Cleaned/Changed Bag Filter #2							
Cleaned Feed/ Discharge Tanks							
Performed Monthly/Quarterly Sampling		✓					
Tested Sump Pump Operation							
Cleaned Sump and Drain							
Additional Tasks/ Notes:							
ON:	6000	6000	6000	6000	6000	6000	6000
OFF:	5800	5800	5800	5800	5800	5800	5800

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Rochester Fire Academy Weekly Log

Date	11/01/2002	11/04/2002	11/07/2002	11/08/2002	11/12/2002	11/13/2002	11/14/2002
Influent Total (gallons)	4,514,814	4,522,148	4,529,551	4,532,342	4,542,540	4,544,396	4,547,222
Daily Influent Total (gallons)	2,775	7,334	7,403	2,791	10,198	1,856	2,826
Effluent Total (gallons)	4,053,977	4,060,988	4,068,040	4,071,045	4,080,422	4,082,216	4,085,249
Daily Effluent Total (gallons)	2,232	7,011	7,052	3,005	9,377	1,794	3,033
Building Inlet Gauge (gpm)	39	39	38	38	38	37	37
Lead Bag Filter Inlet/ Outlet (psi)	5/5	5/5	5/5	5/5	5/5	5/5	5/5
Lag Bag Filter Inlet/Outlet (psi)	0/0	0/0	0/0	0/0	0/0	0/0	0/0
Feed Tank Pump (5 to 20 psi)	20	20	20	20	20	20	20
Air Stripper Pressure (psi)	13.0	13.0	13.0	13.0	13.0	13.0	13.0
Pump 400 (psi)	-	-	-	-	-	-	-
Pump 401 (psi)	9	9	9	9	9	9	9
Carbon Drum 300 (inlet/outlet)							
Carbon Drum 301 (inlet/outlet)							
Carbon Drum 302 (inlet/outlet)							
Carbon Drum 303 (inlet/outlet)							
Carbon Drum 304 (inlet/outlet)							
Carbon Drum 305 (inlet/outlet)							
Carbon Drum 306 (inlet/outlet)							
Carbon Drum 307 (inlet/outlet)							
Sequestering Agent Level (inches)	16.5"	4" add	20"	14" add	17"	11.5"	7" add
Visual Inspection NDA	✓	✓	✓	✓	✓	✓	✓
Visual Inspection TGA	✓	✓	✓	✓	✓	✓	✓
Cleaned/Changed Bag Filter #1							
Cleaned/Changed Bag Filter #2							
Cleaned Feed/ Discharge Tanks							
Performed Monthly Quarterly Sampling						✓	
Tested Sump Pump Operation							
Cleaned Sump and Drain							
Additional Tasks/ Notes:							
ON:	6000	6000	6000	6000	6000	6000	6000
OFF:	5800	5800	5800	5800	5800	5800	5800

Rochester Fire Academy Weekly Log

Date	11/18/2002	11/19/2002	11/20/2002	11/21/2002	11/22/2002	11/25/2002	11/26/1902
Influent Total (gallons)	4,562,516	4,567,148	4,570,102	4,574,000	4,577,000	4,593,841	4,596,850
Daily Influent Total (gallons)	15,294	4,632	2,954	3,898	3,000	16,841	3,009
Effluent Total (gallons)	4,099,230	4,104,385	4,106,812	4,110,531	4,113,817	4,129,862	4,132,301
Daily Effluent Total (gallons)	13,981	5,155	2,427	10,507	3,286	16,045	2,439
Building Inlet Gauge (gpm)	37	36	36	35	35	33	32
Lead Bag Filter Inlet/ Outlet (psi)	5/5	8/5	8/5	9/5	9/5	9/5	11/7
Lag Bag Filter Inlet/Outlet (psi)	0/0	0/0	0/0	0/0	0/0	0/0	0/0
Feed Tank Pump (5 to 20 psi)	20	20	20	20	20	20	20
Air Stripper Pressure (psi)	13.0	13.0	13.0	13.0	13.0	13.0	13.0
Pump 400 (psi)	-	-	-	-	-	-	-
Pump 401 (psi)	9	9	9	9	9	9	9
Carbon Drum 300 (inlet/outlet)							
Carbon Drum 301 (inlet/outlet)							
Carbon Drum 302 (inlet/outlet)							
Carbon Drum 303 (inlet/outlet)							
Carbon Drum 304 (inlet/outlet)							
Carbon Drum 305 (inlet/outlet)							
Carbon Drum 306 (inlet/outlet)							
Carbon Drum 307 (inlet/outlet)							
Sequestering Agent Level (inches)	13"	9"	5.5" add	28"	25.5"	12"	8"
Visual Inspection NDA	✓	✓	✓	✓	✓	✓	✓
Visual Inspection TGA	✓	✓	✓	✓	✓	✓	✓
Cleaned/Changed Bag Filter #1							
Cleaned/Changed Bag Filter #2							
Cleaned Feed/ Discharge Tanks							
Performed Monthly/Quarterly Sampling							
Tested Sump Pump Operation							
Cleaned Sump and Drain							
Additional Tasks/ Notes:							
ON:	6000	6000	6000	6000	6000	6000	6000
OFF:	5800	5800	5800	5800	5800	5800	5800

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Rochester Fire Academy Weekly Log

Date	12/02/2002	12/03/2002	12/04/2002	12/05/2002	12/06/2002	12/18/2002	12/20/2002
Influent Total (gallons)	4,600,962	4,603,449	4,606,534	4,609,206	4,611,147	4,611,892	4,619,000
Daily Influent Total (gallons)	0	2,487	3,085	2,672	1,941	745	7,108
Effluent Total (gallons)	4,136,140	4,138,047	4,140,616	4,142,821	4,144,965	4,146,369	4,153,571
Daily Effluent Total (gallons)	15	1,907	2,569	2,205	2,144	1,404	7,202
Building Inlet Gauge (gpm)	33	33	33	33	33	42	43
Lead Bag Filter Inlet/ Outlet (psi)	16/4	16/4	16/5	16/5	16/5	4/4	4/4
Lag Bag Filter Inlet/Outlet (psi)	0/0	0/0	0/0	0/0	0/0	0/0	0/0
Feed Tank Pump (5 to 20 psi)	20	20	20	20	20	20	20
Air Stripper Pressure (psi)	14.0	14.0	14.0	14.0	14.0	14.0	14.0
Pump 400 (psi)	-	-	-	-	-	-	-
Pump 401 (psi)	9	9	9	9	9	9	9
Carbon Drum 300 (inlet/outlet)							
Carbon Drum 301 (inlet/outlet)							
Carbon Drum 302 (inlet/outlet)							
Carbon Drum 303 (inlet/outlet)							
Carbon Drum 304 (inlet/outlet)							
Carbon Drum 305 (inlet/outlet)							
Carbon Drum 306 (inlet/outlet)							
Carbon Drum 307 (inlet/outlet)							
Sequestering Agent Level (inches)	10"	5.5" add	28"	23"	18"	13"	8" add
Visual Inspection NDA	✓	✓	✓	✓	✓	✓	✓
Visual Inspection TGA	✓	✓	✓	✓	✓	✓	✓
Cleaned/Changed Bag Filter #1						✓	
Cleaned/Changed Bag Filter #2							
Cleaned Feed/ Discharge Tanks							
Performed Monthly/Quarterly Sampling							
Tested Sump Pump Operation						✓	
Cleaned Sump and Drain							
Additional Tasks/ Notes:							
ON:	8200	8100	8100				
OFF:	8100	8000	8000				

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Rochester Fire Academy Weekly Log

Date	01/13/2003	01/14/2003	01/15/2003	01/16/2003	01/17/2003	01/23/2003	01/27/2003
Influent Total (gallons)	4,697,182	4,697,877	4,700,173	4,701,172	4,701,947	4,705,981	4,706,224
Daily Influent Total (gallons)	5,990	695	2,296	999	775	4,034	243
Effluent Total (gallons)	4,227,594	4,228,827	4,230,537	4,231,026	4,232,356	4,235,643	4,236,048
Daily Effluent Total (gallons)	5,663	1,233	1,710	489	1,330	3,287	405
Building Inlet Gauge (gpm)	40	40	41	41	41	41	41
Lead Bag Filter Inlet/ Outlet (psi)	4/4	4/4	4/4	4/4	4/4	4/4	4/4
Lag Bag Filter Inlet/Outlet (psi)	0/0	0/0	0/0	0/0	0/0	0/0	0/0
Feed Tank Pump (5 to 20 psi)	20	20	20	20	20	20	20
Air Stripper Pressure (psi)	13.5	13.5	13.5	13.5	13.5	13.5	13.5
Pump 400 (psi)	-	-	-	-	-	-	-
Pump 401 (psi)	10	10	10	10	10	10	10
Carbon Drum 300 (inlet/outlet)							
Carbon Drum 301 (inlet/outlet)							
Carbon Drum 302 (inlet/outlet)							
Carbon Drum 303 (inlet/outlet)							
Carbon Drum 304 (inlet/outlet)							
Carbon Drum 305 (inlet/outlet)							
Carbon Drum 306 (inlet/outlet)							
Carbon Drum 307 (inlet/outlet)							
Sequestering Agent Level (inches)	-	-	2" add	-	26"	-	11"
Visual Inspection NDA	✓	✓	✓	✓	✓	✓	✓
Visual Inspection TGA	✓	✓	✓	✓	✓	✓	✓
Cleaned/Changed Bag Filter #1							
Cleaned/Changed Bag Filter #2							
Cleaned Feed/ Discharge Tanks							
Performed Monthly/Quarterly Sampling							
Tested Sump Pump Operation							
Cleaned Sump and Drain							
Additional Tasks/ Notes:							
ON:							
OFF:							

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Date	01/28/2003	01/29/2003	01/30/2003	01/31/2003			
Influent Total (gallons)	4,706,224	4,707,082	4,707,082	4,708,043			
Daily Influent Total (gallons)	0	858	0	961			
Effluent Total (gallons)	4,236,048	4,237,310	4,237,310	4,237,792			
Daily Effluent Total (gallons)	0	1,262	0	482			
Building Inlet Gauge (gpm)	40	40	40	40			
Lead Bag Filter Inlet/ Outlet (psi)	4/4	4/4	4/4	4/4			
Lag Bag Filter Inlet/Outlet (psi)	0/0	0/0	0/0	0/0			
Feed Tank Pump (5 to 20 psi)	20	20	20	20			
Air Stripper Pressure (psi)	13.0	13.0	13.0	13.0			
Pump 400 (psi)	-	-	-	-			
Pump 401 (psi)	10	10	10	10			
Carbon Drum 300 (inlet/outlet)							
Carbon Drum 301 (inlet/outlet)							
Carbon Drum 302 (inlet/outlet)							
Carbon Drum 303 (inlet/outlet)							
Carbon Drum 304 (inlet/outlet)							
Carbon Drum 305 (inlet/outlet)							
Carbon Drum 306 (inlet/outlet)							
Carbon Drum 307 (inlet/outlet)							
Sequestering Agent Level (inches)	7" add	33"	28"	24"			
Visual Inspection NDA	✓	✓	✓	✓			
Visual Inspection TGA	✓	✓	✓	✓			
Cleaned/Changed Bag Filter #1							
Cleaned/Changed Bag Filter #2							
Cleaned Feed/ Discharge Tanks							
Performed Monthly/Quarterly Sampling				✓			
Tested Sump Pump Operation							
Cleaned Sump and Drain							
Additional Tasks/ Notes:							
ON:	11600	11600	11500	11400			
OFF:	11500	11500	11400	11300			

Rochester Fire Academy Weekly Log

Date	02/03/2003	02/04/2003	02/05/2003	02/08/2003	02/10/2003	02/11/2003	02/13/2003
Influent Total (gallons)	4,713,784	4,720,198	-	4,727,688	4,737,367	4,738,683	4,741,399
Daily Influent Total (gallons)	5,741	6,414	-	7,490	9,679	1,316	2,716
Effluent Total (gallons)	4,243,238	4,248,911	-	4,254,811	4,265,052	4,266,348	4,268,631
Daily Effluent Total (gallons)	5,446	5,673	-	5,900	10,241	1,296	2,283
Building Inlet Gauge (gpm)	41	43	-	43	43	43	41
Lead Bag Filter Inlet/ Outlet (psi)	5/5	5/5	-	5/5	5/5	5/5	5/5
Lag Bag Filter Inlet/Outlet (psi)	0/0	0/0	-	0/0	0/0	0/0	0/0
Feed Tank Pump (5 to 20 psi)	20	20	-	20	20	20	20
Air Stripper Pressure (psi)	13.0	13.0	-	13.0	13.0	13.0	13.0
Pump 400 (psi)	-	-	-	-	-	-	-
Pump 401 (psi)	10	10	-	10	10	10	10
Carbon Drum 300 (inlet/outlet)							
Carbon Drum 301 (inlet/outlet)							
Carbon Drum 302 (inlet/outlet)							
Carbon Drum 303 (inlet/outlet)							
Carbon Drum 304 (inlet/outlet)							
Carbon Drum 305 (inlet/outlet)							
Carbon Drum 306 (inlet/outlet)							
Carbon Drum 307 (inlet/outlet)							
Sequestering Agent Level (inches)	23"	22"	-	16" add	29"	29"	20"
Visual Inspection NDA	✓	✓	-	✓	✓	✓	✓
Visual Inspection TGA	✓	✓	-	✓	✓	✓	✓
Cleaned/Changed Bag Filter #1							
Cleaned/Changed Bag Filter #2							
Cleaned Feed/ Discharge Tanks							
Performed Monthly/Quarterly Sampling							✓
Tested Sump Pump Operation							
Cleaned Sump and Drain							
Additional Tasks/ Notes:							
ON:	11600	11600	-	11600	11500	11400	11300
OFF:	11500	11500	-	11500	11400	11300	11200
Power outage at transformer, system down from 02/05/03 to 02/08/03.							

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Rochester Fire Academy Weekly Log

Date	03/04/2003	03/05/2003	03/06/2003	03/07/2003	03/10/2003	03/11/2003	03/12/2003
Influent Total (gallons)	4,777,736	4,780,930	4,782,288	4,784,041	4,803,415	4,806,205	4,809,000
Daily Influent Total (gallons)	1,576	3,194	1,358	1,753	19,374	2,790	2,795
Effluent Total (gallons)	4,303,153	4,306,680	4,308,374	4,308,986	4,327,906	4,330,766	4,333,557
Daily Effluent Total (gallons)	529	3,527	1,694	5,900	18,920	2,860	2,791
Building Inlet Gauge (gpm)	41	41	41	41	40	40	40
Lead Bag Filter Inlet/ Outlet (psi)	5/5	5/5	5/5	5/5	5/5	5/5	5/5
Lag Bag Filter Inlet/Outlet (psi)	0/0	0/0	0/0	0/0	0/0	0/0	0/0
Feed Tank Pump (5 to 20 psi)	20	20	20	20	20	20	20
Air Stripper Pressure (psi)	14.0	14.0	14.0	14.0	14.0	14.0	14.0
Pump 400 (psi)	-	-	-	-	-	-	-
Pump 401 (psi)	10	10	10	10	10	10	10
Carbon Drum 300 (inlet/outlet)							
Carbon Drum 301 (inlet/outlet)							
Carbon Drum 302 (inlet/outlet)							
Carbon Drum 303 (inlet/outlet)							
Carbon Drum 304 (inlet/outlet)							
Carbon Drum 305 (inlet/outlet)							
Carbon Drum 306 (inlet/outlet)							
Carbon Drum 307 (inlet/outlet)							
Sequestering Agent Level (inches)	23"	22"	18"	14.5" add	27"	23"	20.5"
Visual Inspection NDA	✓	✓	✓	✓	✓	✓	✓
Visual Inspection TGA	✓	✓	✓	✓	✓	✓	✓
Cleaned/Changed Bag Filter #1							
Cleaned/Changed Bag Filter #2							
Cleaned Feed/ Discharge Tanks							
Performed <u>Monthly</u> /Quarterly Sampling						✓	
Tested Sump Pump Operation							
Cleaned Sump and Drain							
Additional Tasks/ Notes:							
ON:	10000	10000	10800	10600	10600	10500	10400
OFF:	9900	9900	10700	10500	10500	10400	10300

Rochester Fire Academy Weekly Log

Date	03/13/2003	03/17/2003	03/18/2003	03/19/2003	03/20/2003	03/21/2003	03/24/2003
Influent Total (gallons)	4,813,493	4,844,749	4,856,491	4,867,741	4,872,302	4,886,819	4,904,249
Daily Influent Total (gallons)	4,493	31,256	11,742	11,250	4,561	14,517	17,430
Effluent Total (gallons)	4,337,606	4,367,064	4,378,691	4,388,797	4,393,259	4,407,038	4,423,267
Daily Effluent Total (gallons)	4,049	29,458	11,627	10,106	4,462	13,779	16,229
Building Inlet Gauge (gpm)	40	40	40	40	40	40	40
Lead Bag Filter Inlet/ Outlet (psi)	6/6	6/6	6/6	6/6	6/6	6/6	6/6
Lag Bag Filter Inlet/Outlet (psi)	0/0	0/0	0/0	0/0	0/0	0/0	0/0
Feed Tank Pump (5 to 20 psi)	20	20	20	20	20	20	20
Air Stripper Pressure (psi)	14.0	13.0	13.0	13.0	13.0	13.0	13.0
Pump 400 (psi)	-	-	-	-	-	-	-
Pump 401 (psi)	10	10	10	10	10	10	10
Carbon Drum 300 (inlet/outlet)							
Carbon Drum 301 (inlet/outlet)							
Carbon Drum 302 (inlet/outlet)							
Carbon Drum 303 (inlet/outlet)							
Carbon Drum 304 (inlet/outlet)							
Carbon Drum 305 (inlet/outlet)							
Carbon Drum 306 (inlet/outlet)							
Carbon Drum 307 (inlet/outlet)							
Sequestering Agent Level (inches)	16"	13" add	26"	22"	21"	20"	20"
Visual Inspection NDA	✓	✓	✓	✓	✓	✓	✓
Visual Inspection TGA	✓	✓	✓	✓	✓	✓	✓
Cleaned/Changed Bag Filter #1							
Cleaned/Changed Bag Filter #2							
Cleaned Feed/ Discharge Tanks							
Performed Monthly/Quarterly Sampling							
Tested Sump Pump Operation							
Cleaned Sump and Drain							
Additional Tasks/ Notes:							
ON:	11300	10300	10200	10200	10200	10200	10000
OFF:	11200	10200	10100	10100	10100	10100	9900





Rochester Fire Academy Weekly Log

Date	04/15/2003	04/16/2003	04/17/2003	04/21/2003	04/22/2003	04/23/2003	04/24/2003
Influent Total (gallons)	5,008,861	5,011,099	5,013,904	5,021,773	5,023,728	5,025,313	5,026,930
Daily Influent Total (gallons)	2,580	2,238	2,805	7,869	1,955	1,585	1,617
Effluent Total (gallons)	4,519,835	4,521,491	4,524,713	4,531,626	4,533,325	4,533,789	4,535,461
Daily Effluent Total (gallons)	2,156	1,656	3,222	6,913	1,699	464	1,672
Building Inlet Gauge (gpm)	34	34	34	34	34	33	33
Lead Bag Filter Inlet/ Outlet (psi)	14/12	14/12	14/12	14/12	14/12	14/12	16/12
Lag Bag Filter Inlet/Outlet (psi)	2/2	2/2	2/2	2/2	2/2	2/2	2/2
Feed Tank Pump (5 to 20 psi)	20	20	20	20	20	20	20
Air Stripper Pressure (psi)	13.0	13.0	13.0	13.0	13.0	13.0	13.0
Pump 400 (psi)	-	-	-	-	-	-	-
Pump 401 (psi)	10	10	10	10	10	10	10
Carbon Drum 300 (inlet/outlet)							
Carbon Drum 301 (inlet/outlet)							
Carbon Drum 302 (inlet/outlet)							
Carbon Drum 303 (inlet/outlet)							
Carbon Drum 304 (inlet/outlet)							
Carbon Drum 305 (inlet/outlet)							
Carbon Drum 306 (inlet/outlet)							
Carbon Drum 307 (inlet/outlet)							
Sequestering Agent Level (inches)	30"	30"	26"	24"	22"	19"	17"
Visual Inspection NDA	✓	✓	✓	✓	✓	✓	✓
Visual Inspection TGA	✓	✓	✓	✓	✓	✓	✓
Cleaned/Changed Bag Filter #1							
Cleaned/Changed Bag Filter #2							
Cleaned Feed/ Discharge Tanks							
Performed Monthly/Quarterly Sampling							
Tested Sump Pump Operation							
Cleaned Sump and Drain							
Additional Tasks/ Notes:							
ON:	9800	9800	9800	9800	9800	9800	9800
OFF:	9700	9700	9700	9700	9700	9700	9700



Rochester Fire Academy Weekly Log

Date	05/05/2003	05/06/2003	05/07/2003	05/08/2003	05/09/2003	05/13/2003	05/14/2003
Influent Total (gallons)	5,032,834	5,034,775	5,036,315	5,037,325	5,038,041	5,043,390	5,045,560
Daily Influent Total (gallons)	0	1,941	1,540	1,010	716	5,349	2,170
Effluent Total (gallons)	0	4,542,401	4,543,878	4,544,447	4,545,711	4,550,541	4,552,688
Daily Effluent Total (gallons)	12,081	4,542,401	1,477	5,900	1,264	4,830	2,147
Building Inlet Gauge (gpm)	41	41	41	41	41	41	41
Lead Bag Filter Inlet/ Outlet (psi)	5/5	5/5	5/5	5/5	5/5	5/5	5/5
Lag Bag Filter Inlet/Outlet (psi)	2/2	2/2	2/2	2/2	2/2	2/2	2/2
Feed Tank Pump (5 to 20 psi)	20	20	20	20	20	20	20
Air Stripper Pressure (psi)	13.0	13.0	13.0	13.0	13.0	13.0	13.0
Pump 400 (psi)	-	-	-	-	-	-	-
Pump 401 (psi)	10	10	10	10	10	10	10
Carbon Drum 300 (inlet/outlet)							
Carbon Drum 301 (inlet/outlet)							
Carbon Drum 302 (inlet/outlet)							
Carbon Drum 303 (inlet/outlet)							
Carbon Drum 304 (inlet/outlet)							
Carbon Drum 305 (inlet/outlet)							
Carbon Drum 306 (inlet/outlet)							
Carbon Drum 307 (inlet/outlet)							
Sequestering Agent Level (inches)	18"	14.5"	10.5"	8.5"	7" add	25"	21"
Visual Inspection NDA	✓	✓	✓	✓	✓	✓	✓
Visual Inspection TGA	✓	✓	✓	✓	✓	✓	✓
Cleaned/Changed Bag Filter #1	✓						
Cleaned/Changed Bag Filter #2							
Cleaned Feed/ Discharge Tanks							
Performed Monthly/Quarterly Sampling							
Tested Sump Pump Operation						✓	
Cleaned Sump and Drain							
Additional Tasks/ Notes:							
ON:	10600	10600	10600	10600	10300	10100	10100
OFF:	10400	10400	10400	10400	10100	9900	9900

Rochester Fire Academy Weekly Log

Date	05/15/2003	05/16/2003	05/19/2003	05/20/2003	05/21/2003	05/27/2003	05/28/2003
Influent Total (gallons)	5,046,390	5,048,039	5,058,228	5,059,920	5,061,608	5,075,570	5,077,273
Daily Influent Total (gallons)	830	1,649	10,189	1,692	1,688	13,962	1,703
Effluent Total (gallons)	4,554,349	4,555,752	4,565,440	4,567,409	4,569,060	4,582,456	4,584,192
Daily Effluent Total (gallons)	1,661	1,403	9,688	1,969	1,651	13,396	1,736
Building Inlet Gauge (gpm)	40	40	39	39	39	38	38
Lead Bag Filter Inlet/ Outlet (psi)	5/3	5/3	6/3	7/3	7/4	8/4	8/4
Lag Bag Filter Inlet/Outlet (psi)	2/2	2/2	2/2	2/2	2/2	2/0	2/0
Feed Tank Pump (5 to 20 psi)	20	20	20	20	20	20	20
Air Stripper Pressure (psi)	13.5	13.5	13.5	13.5	13.5	13.5	13.5
Pump 400 (psi)	-	-	-	-	-	-	-
Pump 401 (psi)	10	10	10	10	10	10	10
Carbon Drum 300 (inlet/outlet)							
Carbon Drum 301 (inlet/outlet)							
Carbon Drum 302 (inlet/outlet)							
Carbon Drum 303 (inlet/outlet)							
Carbon Drum 304 (inlet/outlet)							
Carbon Drum 305 (inlet/outlet)							
Carbon Drum 306 (inlet/outlet)							
Carbon Drum 307 (inlet/outlet)							
Sequestering Agent Level (inches)	18"	13" add	28"	27"	12" add	29"	26"
Visual Inspection NDA	✓	✓	✓	✓	✓	✓	✓
Visual Inspection TGA	✓	✓	✓	✓	✓	✓	✓
Cleaned/Changed Bag Filter #1							
Cleaned/Changed Bag Filter #2							
Cleaned Feed/ Discharge Tanks							
Performed Monthly/Quarterly Sampling							
Tested Sump Pump Operation							
Cleaned Sump and Drain							
Additional Tasks/ Notes:							
ON:	10100	10100	10100	10100	10100	10100	10100
OFF:	9900	9900	9900	9900	9900	9900	9900

Rochester Fire Academy Weekly Log

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Rochester Fire Academy Weekly Log

Date	06/02/2003	06/03/2003	06/04/2003	06/05/2003	06/06/2003	06/10/2003	06/11/2003
Influent Total (gallons)	5,092,234	5,094,897	5,097,546	5,105,895	5,109,518	5,119,891	5,121,818
Daily Influent Total (gallons)	5,217	2,663	2,649	8,349	3,623	10,373	1,927
Effluent Total (gallons)	4,598,702	4,600,824	4,602,993	4,610,567	4,614,937	4,624,714	4,626,827
Daily Effluent Total (gallons)	5,081	2,122	2,169	5,900	4,370	9,777	2,113
Building Inlet Gauge (gpm)	38	37	37	37	36	36	41
Lead Bag Filter Inlet/ Outlet (psi)	8/4	9/4	9/5	9/7	9/7	9/8	10/9
Lag Bag Filter Inlet/Outlet (psi)	2/0	2/0	3/0	3/0	4/0	4/0	5/0
Feed Tank Pump (5 to 20 psi)	20	20	20	20	20	20	20
Air Stripper Pressure (psi)	13.5	13.5	13.5	13.5	13.5	13.5	13.5
Pump 400 (psi)	-	-	-	-	-	-	-
Pump 401 (psi)	10	10	10	10	10	10	10
Carbon Drum 300 (inlet/outlet)							
Carbon Drum 301 (inlet/outlet)							
Carbon Drum 302 (inlet/outlet)							
Carbon Drum 303 (inlet/outlet)							
Carbon Drum 304 (inlet/outlet)							
Carbon Drum 305 (inlet/outlet)							
Carbon Drum 306 (inlet/outlet)							
Carbon Drum 307 (inlet/outlet)							
Sequestering Agent Level (inches)	17"	15"	14.5"	11"	7" add	32"	28.5"
Visual Inspection NDA	✓	✓	✓	✓	✓	✓	✓
Visual Inspection TGA	✓	✓	✓	✓	✓	✓	✓
Cleaned/Changed Bag Filter #1							
Cleaned/Changed Bag Filter #2							
Cleaned Feed/ Discharge Tanks							
Performed Semi-annual Well Sampling					✓		
Tested Sump Pump Operation							
Cleaned Sump and Drain							
Additional Tasks/ Notes:							
ON:	10100	10100	10100	10100	10100	10100	10100
OFF:	9900	9900	9900	9900	9900	9900	9900

Rochester Fire Academy Weekly Log

Date	06/12/2003	06/13/2003	06/16/2003	06/20/2003	06/23/2003	06/25/2003	06/30/2003
Influent Total (gallons)	5,123,555	5,123,555	5,123,555	5,137,660	5,142,798	5,145,874	5,152,773
Daily Influent Total (gallons)	1,737	0	0	14,105	5,138	3,076	6,899
Effluent Total (gallons)	4,628,503	4,628,503	4,628,503	4,642,146	4,647,692	4,650,993	4,657,816
Daily Effluent Total (gallons)	1,676	0	0	13,643	5,546	3,301	6,823
Building Inlet Gauge (gpm)	38	-	-	40	40	40	41
Lead Bag Filter Inlet/ Outlet (psi)	10/10	-	-	4/4	5/5	5/5	4/4
Lag Bag Filter Inlet/Outlet (psi)	5/0	-	-	0/0	0/0	0/0	0/0
Feed Tank Pump (5 to 20 psi)	20	-	-	20	20	20	20
Air Stripper Pressure (psi)	13.5	-	-	13.5	13.5	13.0	13.0
Pump 400 (psi)	-	-	-	-	-	-	-
Pump 401 (psi)	10	-	-	10	10	10	10
Carbon Drum 300 (inlet/outlet)							
Carbon Drum 301 (inlet/outlet)							
Carbon Drum 302 (inlet/outlet)							
Carbon Drum 303 (inlet/outlet)							
Carbon Drum 304 (inlet/outlet)							
Carbon Drum 305 (inlet/outlet)							
Carbon Drum 306 (inlet/outlet)							
Carbon Drum 307 (inlet/outlet)							
Sequestering Agent Level (inches)	28"	24.5"	24.5"	24"	21"	17" add	33"
Visual Inspection NDA	✓	✓	✓	✓	✓	✓	✓
Visual Inspection TGA	✓	✓	✓	✓	✓	✓	✓
Cleaned/Changed Bag Filter #1							
Cleaned/Changed Bag Filter #2				✓			
Cleaned Feed/ Discharge Tanks							
Performed Monthly/Quarterly Sampling						✓	
Tested Sump Pump Operation							
Cleaned Sump and Drain				✓			
Additional Tasks/ Notes:							
ON:	10100	10100	10100	10300	10100	9900	9900
OFF:	9900	9900	9900	10100	9900	9700	9700

Rochester Fire Academy Weekly Log

Date	07/01/2003	07/02/2003	07/07/2003	07/08/2003	07/09/2003	07/10/2003	07/11/2003
Influent Total (gallons)	5,155,440	5,157,160	5,161,452	5,162,320	5,163,164	5,166,126	5,166,990
Daily Influent Total (gallons)	2,667	1,720	4,292	868	844	2,962	864
Effluent Total (gallons)	4,660,012	4,660,524	4,666,106	4,666,547	4,666,547	4,669,755	4,671,438
Daily Effluent Total (gallons)	2,196	512	5,582	5,900	0	3,208	1,683
Building Inlet Gauge (gpm)	40	40	40	40	40	40	40
Lead Bag Filter Inlet/ Outlet (psi)	5/5	5/5	5/5	5/5	5/5	5/5	5/5
Lag Bag Filter Inlet/Outlet (psi)	2/0	2/0	2/0	2/0	2/0	2/0	2/0
Feed Tank Pump (5 to 20 psi)	20	20	20	20	20	20	20
Air Stripper Pressure (psi)	13.0	13.0	13.0	13.0	13.0	13.0	13.0
Pump 400 (psi)	-	-	-	-	-	-	-
Pump 401 (psi)	10	10	10	10	10	10	10
Carbon Drum 300 (inlet/outlet)							
Carbon Drum 301 (inlet/outlet)							
Carbon Drum 302 (inlet/outlet)							
Carbon Drum 303 (inlet/outlet)							
Carbon Drum 304 (inlet/outlet)							
Carbon Drum 305 (inlet/outlet)							
Carbon Drum 306 (inlet/outlet)							
Carbon Drum 307 (inlet/outlet)							
Sequestering Agent Level (inches)	33"	31"	31"	27"	26"	22"	22"
Visual Inspection NDA	✓	✓	✓	✓	✓	✓	✓
Visual Inspection TGA	✓	✓	✓	✓	✓	✓	✓
Cleaned/Changed Bag Filter #1							
Cleaned/Changed Bag Filter #2							
Cleaned Feed/ Discharge Tanks							
Performed Semi-annual Well Sampling							
Tested Sump Pump Operation							
Cleaned Sump and Drain							
Additional Tasks/ Notes:							
ON:	9900	9900	9900	9900	9900	9900	9900
OFF:	9700	9700	9700	9700	9700	9700	9700

Rochester Fire Academy Weekly Log

Date	07/15/2003	07/16/2003	07/17/2003	07/18/2003	07/21/2003	07/22/2003	07/23/2003
Influent Total (gallons)	5,170,330	5,172,000	5,172,848	5,173,776	5,177,294	5,180,084	5,182,861
Daily Influent Total (gallons)	3,340	1,670	848	928	3,518	2,790	2,777
Effluent Total (gallons)	4,674,676	4,676,303	4,676,303	4,677,923	4,680,937	4,683,647	4,686,359
Daily Effluent Total (gallons)	3,238	1,627	0	1,620	3,014	2,710	2,712
Building Inlet Gauge (gpm)	40	40	40	40	40	40	40
Lead Bag Filter Inlet/ Outlet (psi)	5/5	5/5	5/5	5/5	5/5	5/5	5/5
Lag Bag Filter Inlet/Outlet (psi)	2/0	2/0	2/0	2/0	2/0	2/0	2/0
Feed Tank Pump (5 to 20 psi)	20	20	20	20	20	20	20
Air Stripper Pressure (psi)	13.0	13	13	13.0	13.0	13.0	13.0
Pump 400 (psi)	-	-	-	-	-	-	-
Pump 401 (psi)	10	10	10	10	10	10	10
Carbon Drum 300 (inlet/outlet)							
Carbon Drum 301 (inlet/outlet)							
Carbon Drum 302 (inlet/outlet)							
Carbon Drum 303 (inlet/outlet)							
Carbon Drum 304 (inlet/outlet)							
Carbon Drum 305 (inlet/outlet)							
Carbon Drum 306 (inlet/outlet)							
Carbon Drum 307 (inlet/outlet)							
Sequestering Agent Level (inches)	22"	22"	18"	14"	12"	7" add	27"
Visual Inspection NDA	✓	✓	✓	✓	✓	✓	✓
Visual Inspection TGA	✓	✓	✓	✓	✓	✓	✓
Cleaned/Changed Bag Filter #1							
Cleaned/Changed Bag Filter #2							
Cleaned Feed/ Discharge Tanks							
Performed Monthly/Quarterly Sampling				✓			
Tested Sump Pump Operation							
Cleaned Sump and Drain							
Additional Tasks/ Notes:							
ON:	9800	9600	9500	9400	9200	9000	8800
OFF:	9700	9500	9400	9200	9000	8800	8600

Rochester Fire Academy Weekly Log

Date	07/24/2003	07/28/2003	07/29/2003	07/30/2003	07/31/2003		
Influent Total (gallons)	5,185,697	5,191,410	5,194,793	5,198,123	5,202,195		
Daily Influent Total (gallons)	2,836	5,713	3,383	3,330	4,072		
Effluent Total (gallons)	4,689,137	4,694,643	4,697,993	4,701,298	4,705,684		
Daily Effluent Total (gallons)	2,778	5,506	3,350	3,305	4,386		
Building Inlet Gauge (gpm)	40	40	39	39	39		
Lead Bag Filter Inlet/ Outlet (psi)	5/5	5/5	5/5	5/5	5/5		
Lag Bag Filter Inlet/Outlet (psi)	2/0	2/0	2/0	2/0	2/0		
Feed Tank Pump (5 to 20 psi)	20	20	20	20	20		
Air Stripper Pressure (psi)	13.0	13.0	13.0	13.0	13.0		
Pump 400 (psi)	-	-	-	-	-		
Pump 401 (psi)	10	10	10	10	10		
Carbon Drum 300 (inlet/outlet)							
Carbon Drum 301 (inlet/outlet)							
Carbon Drum 302 (inlet/outlet)							
Carbon Drum 303 (inlet/outlet)							
Carbon Drum 304 (inlet/outlet)							
Carbon Drum 305 (inlet/outlet)							
Carbon Drum 306 (inlet/outlet)							
Carbon Drum 307 (inlet/outlet)							
Sequestering Agent Level (inches)	25.5"	22"	22"	18.5"	18"		
Visual Inspection NDA	✓	✓	✓	✓	✓		
Visual Inspection TGA	✓	✓	✓	✓	✓		
Cleaned/Changed Bag Filter #1							
Cleaned/Changed Bag Filter #2							
Cleaned Feed/ Discharge Tanks							
Performed Monthly Quarterly Sampling				✓			
Tested Sump Pump Operation							
Cleaned Sump and Drain							
Additional Tasks/ Notes:							
ON:	8800	8600	8400	8200	8200		
OFF:	8600	8400	8200	8000	8000		

Rochester Fire Academy Weekly Log

Date	08/01/2003	08/04/2003	08/05/2003	08/06/2003	08/07/2003	08/08/2003	08/12/2003
Influent Total (gallons)	5,203,205	5,211,041	5,214,875	5,218,975	5,221,440	5,225,360	5,237,280
Daily Influent Total (gallons)	1,010	7,836	3,834	4,100	2,465	3,920	11,920
Effluent Total (gallons)	4,706,245	4,713,741	4,717,860	4,721,863	4,723,322	4,727,972	4,739,377
Daily Effluent Total (gallons)	561	7,496	4,119	5,900	1,459	4,650	11,405
Building Inlet Gauge (gpm)	39	39	39	39	39	39	38
Lead Bag Filter Inlet/ Outlet (psi)	5/5	5/5	5/5	5/5	5/5	5/5	5/5
Lag Bag Filter Inlet/Outlet (psi)	0/0	0/0	0/0	0/0	0/0	0/0	0/0
Feed Tank Pump (5 to 20 psi)	20	20	20	20	20	20	20
Air Stripper Pressure (psi)	13.0	13.0	13.0	13.0	13.0	13.0	13.0
Pump 400 (psi)	-	-	-	-	-	-	-
Pump 401 (psi)	10	10	10	10	10	10	10
Carbon Drum 300 (inlet/outlet)							
Carbon Drum 301 (inlet/outlet)							
Carbon Drum 302 (inlet/outlet)							
Carbon Drum 303 (inlet/outlet)							
Carbon Drum 304 (inlet/outlet)							
Carbon Drum 305 (inlet/outlet)							
Carbon Drum 306 (inlet/outlet)							
Carbon Drum 307 (inlet/outlet)							
Sequestering Agent Level (inches)	18"	15"	15"	-	11"	10.5" add	26.5"
Visual Inspection NDA	✓	✓	✓	-	✓	✓	✓
Visual Inspection TGA	✓	✓	✓	-	✓	✓	✓
Cleaned/Changed Bag Filter #1							
Cleaned/Changed Bag Filter #2							
Cleaned Feed/ Discharge Tanks							
Performed Semi-annual Well Sampling							
Tested Sump Pump Operation							
Cleaned Sump and Drain							
Additional Tasks/ Notes:							
ON:	8000	7800	7600	7600	7400	7200	7200
OFF:	7800	7600	7400	7400	7200	7000	7000

Rochester Fire Academy Weekly Log

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Appendix B
Analytical Results



PARADIGM

ENVIRONMENTAL SERVICES, INC.

179 Lake Avenue Rochester, New York 716-647-2530 FAX 716-647-3311

LABORATORY REPORT OF ANALYSIS

Client: City of Rochester

Lab Project No.: 02-2380

Client Job Site: RFA-Monthly Sample

Client Job No.: DEQ-98045

Sample Type: Water

Analytical Method: EPA 365.2

Date Sampled: 09/17/2002

Date Received: 09/18/2002

Date Analyzed: 09/24/2002

Lab Sample ID.	Field Location/Sample ID	T- Phosphorus (mg/l)
8587	Effluent	1.0

ELAP ID No. 10709

Comments: ND denotes Non Detected.

Approved By Technical Director: _____

Bruce Hoogesteger



PARADIGM

ENVIRONMENTAL SERVICES, INC.

179 Lake Avenue, Rochester, NY 14608 (585) 647-2530 FAX (585) 647-3311

Client: City of Rochester - DEQ

Lab Project No.: 02-2380

Client Job Site: Rochester Fire Academy
Monthly Sampling

Sample Type: Water
Method: EPA 9040

Client Job No.: DEQ - 98045

Date(s) Sampled: 9/17/02

Date Received: 9/18/02

Date Analyzed: 9/18/02

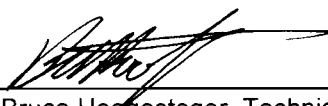
Laboratory Report for pH Analysis

Lab Sample No.	Field ID No.	Field Location	pH Results (S.U.)
8587	N/A	Effluent	8.40

ELAP ID No.: 10958

Comments:

Approved By: _____


Bruce Hoggsteger, Technical Director

Client: City of Rochester - DEQ
Lab Project No. 02-2380

Lab Sample No. 8587

Client Job Site: Rochester Fire Academy

Monthly Sampling

Sample Type: Water

Client Job No.: DEQ - 98045

Date Sampled: 9/17/02

Field Location: Effluent

Date Received: 9/18/02

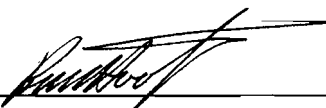
Field ID No.: N/A

Laboratory Report for Metals Analysis

Parameter	Date Analyzed	Analytical Method	Result (mg/L)
Arsenic	09/20/02	EPA 200.7	0.017
Cadmium	09/20/02	EPA 200.7	<0.005
Chromium	09/20/02	EPA 200.7	<0.010
Copper	09/20/02	EPA 200.7	<0.010
Iron	09/20/02	EPA 200.7	1.53
Lead	09/20/02	EPA 200.7	<0.005
Manganese	09/20/02	EPA 200.7	0.243
Nickel	09/20/02	EPA 200.7	<0.040
Selenium	09/20/02	EPA 200.7	<0.005
Zinc	09/20/02	EPA 200.7	<0.020

ELAP ID No.:10958

Comments:

Approved By:


Bruce Hoogesteger, Technical Director

Pesticide Analysis Report for Non-potable Water

Client: City of Rochester - DEQ

Client Job Site:	RFA - Monthly Sampling	Lab Project Number:	02-2380
		Lab Sample Number:	8587
Client Job Number:	DEQ-98045		
Field Location:	Effluent	Date Sampled:	09/17/2002
Field ID Number:	N/A	Date Received:	09/18/2002
Sample Type:	Water	Date Analyzed:	09/24/2002

Pesticide Identification	Results in ug / L
Aldrin	ND< 0.100
alpha-BHC	ND< 0.100
beta-BHC	ND< 0.100
delta-BHC	ND< 0.100
gamma-BHC	ND< 0.100
alpha-Chlordane	ND< 0.100
gamma-Chlordane	ND< 0.100
4,4'-DDD	ND< 0.100
4,4'-DDE	ND< 0.100
4,4'-DDT	ND< 0.100
Dieldrin	ND< 0.100
Endosulfan I	ND< 0.100
Endosulfan II	ND< 0.100
Endosulfan Sulfate	ND< 0.100
Endrin	ND< 0.100
Endrin Aldehyde	ND< 0.100
Heptachlor	ND< 0.100
Heptachlor Epoxide	ND< 0.100
Methoxychlor	ND< 0.100
Toxaphene	ND< 5.00

ELAP Number 10958

Method: EPA 608

Comments: ND denotes Non Detect
ug / L = microgram per Liter

Signature: _____

Bruce Hoogesteger, Technical Director

PCB Analysis Report for Non-potable Water

Client: City of Rochester - DEQ

Client Job Site:	RFA - Monthly Sampling	Lab Project Number:	02-2380
Client Job Number:	DEQ-98045	Lab Sample Number:	8587
Field Location:	Effluent	Date Sampled:	09/17/2002
Field ID Number:	N/A	Date Received:	09/18/2002
Sample Type:	Water	Date Analyzed:	09/24/2002

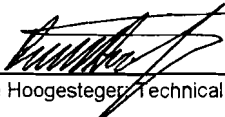
PCB Identification	Results in ug / L
Aroclor 1016	ND< 1.00
Aroclor 1221	ND< 1.00
Aroclor 1232	ND< 1.00
Aroclor 1242	ND< 1.00
Aroclor 1248	ND< 1.00
Aroclor 1254	ND< 1.00
Aroclor 1260	ND< 1.00

ELAP Number 10958

Method: EPA 608

Comments: ND denotes Non Detect
ug / L = microgram per Liter

Signature: _____


Bruce Hoogesteger, Technical Director

Semi -Volatile Analysis Report for Non-potable Water

Client: City of Rochester - DEQ

Client Job Site:	RFA - Monthly Sampling	Lab Project Number:	02-2380
Client Job Number:	DEQ-98045	Lab Sample Number:	8587
Field Location:	Effluent	Date Sampled:	09/17/2002
Field ID Number:	N/A	Date Received:	09/18/2002
Sample Type:	Water	Date Analyzed:	09/24/2002

Base / Neutrals	Results in ug / L	Base / Neutrals	Results in ug / L
Acenaphthene	ND< 10.0	Dibenz (a,h) anthracene	ND< 10.0
Anthracene	ND< 10.0	Fluoranthene	ND< 10.0
Benzo (a) anthracene	ND< 10.0	Fluorene	ND< 10.0
Benzo (a) pyrene	ND< 10.0	Indeno (1,2,3-cd) pyrene	ND< 10.0
Benzo (b) fluoranthene	ND< 10.0	Naphthalene	ND< 10.0
Benzo (g,h,i) perylene	ND< 10.0	Phenanthrene	ND< 10.0
Benzo (k) fluoranthene	ND< 10.0	Pyrene	ND< 10.0
Chrysene	ND< 10.0	Acenaphthylene	ND< 10.0
Diethyl phthalate	ND< 10.0	1,2-Dichlorobenzene	ND< 10.0
Dimethyl phthalate	ND< 25.0	1,3-Dichlorobenzene	ND< 10.0
Butylbenzylphthalate	ND< 10.0	1,4-Dichlorobenzene	ND< 10.0
Di-n-butyl phthalate	ND< 10.0	1,2,4-Trichlorobenzene	ND< 10.0
Di-n-octylphthalate	ND< 10.0	Nitrobenzene	ND< 10.0
Bis (2-ethylhexyl) phthalate	14.9	2,4-Dinitrotoluene	ND< 10.0
2-Chloronaphthalene	ND< 10.0	2,6-Dinitrotoluene	ND< 10.0
Hexachlorobenzene	ND< 10.0	Bis (2-chloroethyl) ether	ND< 10.0
Hexachloroethane	ND< 10.0	Bis (2-chloroisopropyl) ether	ND< 10.0
Hexachlorocyclopentadiene	ND< 10.0	Bis (2-chloroethoxy) methane	ND< 10.0
Hexachlorobutadiene	ND< 10.0	4-Bromophenyl phenyl ether	ND< 10.0
N-Nitroso-di-n-propylamine	ND< 10.0	4-Chlorophenyl phenyl ether	ND< 10.0
N-Nitrosodiphenylamine	ND< 10.0	Benzidine	ND< 25.0
N-Nitrosodimethylamine	ND< 10.0	3,3'-Dichlorobenzidine	ND< 10.0
Isophorone	ND< 10.0		

Acids	Results in ug / L	Acids	Results in ug / L
Phenol	ND< 10.0	2,4-Dimethylphenol	ND< 10.0
2-Chlorophenol	ND< 10.0	2-Nitrophenol	ND< 10.0
2,4-Dichlorophenol	ND< 10.0	4-Nitrophenol	ND< 25.0
2,4,6-Trichlorophenol	ND< 10.0	2,4-Dinitrophenol	ND< 10.0
Pentachlorophenol	ND< 25.0	4,6-Dinitro-2-methylphenol	ND< 25.0
4-Chloro-3-methylphenol	ND< 10.0		

ELAP Number 10958

Method: EPA 625

Data File: 8807.D

Comments: ND denotes Non Detect
 ug / L = microgram per Liter

Signature:


 Bruce Hoogesteger, Technical Director

Volatile Analysis Report for Non-potable Water

Client: City of Rochester - DEQ
Client Job Site: RFA - Monthly Sampling

Lab Project Number: 02-2380

Client Job Number: DEQ-98045

Lab Sample Number: 8587

Field Location: Effluent

Date Sampled: 09/17/2002

Field ID Number: N/A

Date Received: 09/18/2002

Sample Type: Water

Date Analyzed: 09/21/2002

Halocarbons	Results in ug / L	Halocarbons	Results in ug / L
Bromodichloromethane	ND< 2.00	trans-1,2-Dichloroethene	ND< 2.00
Bromomethane	ND< 2.00	1,2-Dichloropropane	ND< 2.00
Bromoform	2.69	cis-1,3-Dichloropropene	ND< 2.00
Carbon tetrachloride	ND< 2.00	trans-1,3-Dichloropropene	ND< 2.00
Chloroethane	ND< 2.00	Methylene chloride	ND< 5.00
Chloromethane	ND< 2.00	1,1,2,2-Tetrachloroethane	ND< 2.00
2-Chloroethyl vinyl ether	ND< 2.00	Tetrachloroethene	ND< 2.00
Chloroform	ND< 2.00	1,1,1-Trichloroethane	82.2
Dibromochloromethane	2.99	1,1,2-Trichloroethane	ND< 2.00
1,1-Dichloroethane	14.2	Trichloroethene	6.79
1,2-Dichloroethane	5.86	Trichlorofluoromethane	ND< 2.00
1,1-Dichloroethene	ND< 2.00	Vinyl Chloride	ND< 2.00

Aromatics	Results in ug / L	Aromatics	Results in ug / L
Benzene	ND< 0.700	1,2-Dichlorobenzene	ND< 2.00
Chlorobenzene	ND< 2.00	1,3-Dichlorobenzene	ND< 2.00
Ethylbenzene	ND< 2.00	1,4-Dichlorobenzene	ND< 2.00
Toluene	3.13		

ELAP Number 10958

Method: EPA 601 / 602

Data File: 61813.D

Comments: ND denotes Non Detect
 ug / L = microgram per Liter

Signature:


 Bruce Hoogesteger, Technical Director

Volatile Analysis Report for Non-potable Water

Client: City of Rochester - DEQ

Client Job Site:	RFA - Monthly Sampling	Lab Project Number:	02-2380
Client Job Number:	DEQ-98045	Lab Sample Number:	8587
Field Location:	Effluent	Date Sampled:	09/17/2002
Field ID Number:	N/A	Date Received:	09/18/2002
Sample Type:	Water	Date Analyzed:	09/21/2002

Halocarbons	Results in ug / L
2-Chloroethyl vinyl ether	ND< 2.00

Ketones	Results in ug / L
Acetone	36.6
2-Butanone	19.0
2-Hexanone	ND< 5.00
4-Methyl-2-pentanone	8.81

ELAP Number 10958

Method: EPA 8015 Modified

Aromatics	Results in ug / L
m,p - Xylene	ND< 2.00
o - Xylene	ND< 2.00
Styrene	ND< 2.00

Miscellaneous	Results in ug / L
Carbon disulfide	ND< 5.00
Vinyl acetate	ND< 5.00

Data File: 61813.D

Comments: ND denotes Non Detect
ug / L = microgram per Liter

Signature: _____


Bruce Hoogesteger: Technical Director

PARA IGM ENVIRONMENTAL SERVICES, INC.

179 Lake Avenue
Rochester, NY 14608
(716) 647-2530 * (800) 724-1997
FAX: (716) 647-3311

CH OF CUSTODY

REPORT TO:

INVOICE TO:

COMPANY: <u>City of Rochester - DEC</u>		COMPANY:	LAB PROJECT #: <u>12-2380</u>	CLIENT PROJECT #:
ADDRESS: <u>30 Church St Rm 300B</u>		ADDRESS:		
CITY: <u>Rochester NY</u>	STATE: <u>NY</u>	CITY:	TURNAROUND TIME: (WORKING DAYS)	
PHONE: <u>716 7892</u>	FAX: <u>716 6010</u>	PHONE:		
ATTN: <u>Jane Forbes</u>		ATTN:	☐ 1 ☐ 2 ☐ 3 ☒ 5 ☐ OTHER	
PROJECT NAME/SITE NAME: <u>FA - Residue, Sample DEC 98045</u>		COMMENTS: <u>AS, Pb, Cd, Hg, Cr, Ni, Mn, ↓ Ni, Se, Zn</u>		

REQUESTED ANALYSIS

DATE	TIME	COMPOSITE	GRAB	SAMPLE LOCATION/FIELD ID	MATRIX	CONTAMINERS	REMARKS	PARADIGM LAB SAMPLE NUMBER
9/18/02				62 Hunt	11	As Pb Cd Hg Cr Ni Mn Se Zn	on site	9587
1								
2								
3								
4								
5								
6								
7								
8								
9								
10								

LAB USE ONLY

SAMPLE CONDITION: Check box if acceptable or note deviation:	CONTAINER TYPE: ☒	PRESERVATIONS: ☐	HOLDING TIME: ☐	TEMPERATURE: ☐ 23
--	---	---	--	--

Sampled By: <u>Jane Forbes</u>	Date/Time: <u>9/17/02 1300</u>
Relinquished By: <u>Jane Forbes</u>	Date/Time: <u>9/18/02 1215</u>
Received By: <u>Jane Forbes</u>	Date/Time: <u>9/18/02 1215</u>

Relinquished By:	Date/Time:
Received By:	Date/Time:
Received @ Lab By: <u>Jane Forbes</u>	Date/Time: <u>9/18/02 1530</u>

Total Cost:
P.I.F.



PARADIGM

ENVIRONMENTAL SERVICES, INC.

179 Lake Avenue Rochester, New York 14608 716-647-2530 FAX 716-647-3311

LABORATORY REPORT OF ANALYSIS

Client: City of Rochester **Lab Project No.:** 02-2614

Client Job Site: RFA - Monthly Sampling **Sample Type:** Water

Client Job No.: DEQ98045 **Analytical Method:** EPA 365.2

Date Sampled: 10/10/2002

Date Received: 10/11/2002

Date Analyzed: 10/16/2002

Lab Sample ID.	Sample Location/Field ID	Total Phosphorus (mg/l)
10196	Effluent	6.2

ELAP ID No. 10709

Comments: ND denotes non-detected.

Approved By Technical Director: _____

Bruce Hoogesteger

Pesticide Analysis Report for Non-potable Water**Client:** City of Rochester - DEQ

Client Job Site:	RFA - Monthly Sampling	Lab Project Number:	02-2614
Client Job Number:	DEQ-98045	Lab Sample Number:	10196
Field Location:	Effluent	Date Sampled:	10/10/2002
Field ID Number:	N/A	Date Received:	10/11/2002
Sample Type:	Water	Date Analyzed:	10/17/2002

Pesticide Identification	Results in ug / L
Aldrin	ND< 0.100
alpha-BHC	ND< 0.100
beta-BHC	ND< 0.100
delta-BHC	ND< 0.100
gamma-BHC	ND< 0.100
alpha-Chlordane	ND< 0.100
gamma-Chlordane	ND< 0.100
4,4'-DDD	ND< 0.100
4,4'-DDE	ND< 0.200
4,4'-DDT	ND< 0.100
Dieldrin	ND< 0.100
Endosulfan I	ND< 0.100
Endosulfan II	ND< 0.100
Endosulfan Sulfate	ND< 0.100
Endrin	ND< 0.100
Endrin Aldehyde	ND< 0.100
Heptachlor	ND< 0.100
Heptachlor Epoxide	ND< 0.100
Methoxychlor	ND< 0.100
Toxaphene	ND< 5.00

ELAP Number 10958

Method: EPA 608

Comments: ND denotes Non Detect
ug / L = microgram per Liter

Signature: _____

Bruce Hoogesteger, Technical Director

PCB Analysis Report for Non-potable Water

Client: City of Rochester - DEQ

Client Job Site:	RFA - Monthly Monitoring	Lab Project Number:	02-2614
Client Job Number:	DEQ-98045	Lab Sample Number:	10196
Field Location:	Effluent	Date Sampled:	10/10/2002
Field ID Number:	N/A	Date Received:	10/11/2002
Sample Type:	Water	Date Analyzed:	10/17/2002

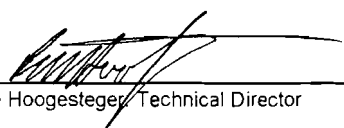
PCB Identification	Results in ug / L
Aroclor 1016	ND< 1.00
Aroclor 1221	ND< 1.00
Aroclor 1232	ND< 1.00
Aroclor 1242	ND< 1.00
Aroclor 1248	ND< 1.00
Aroclor 1254	ND< 1.00
Aroclor 1260	ND< 1.00

ELAP Number 10958

Method: EPA 608

Comments: ND denotes Non Detect
ug / L = microgram per Liter

Signature:


Bruce Hoogesteger, Technical Director

Semi -Volatile Analysis Report for Non-potable Water

Client: City of Rochester - DEQ

Client Job Site:	RFA - Monthly Sampling	Lab Project Number:	02-2614
Client Job Number:	DEQ-98045	Lab Sample Number:	10196
Field Location:	Effluent	Date Sampled:	10/10/2002
Field ID Number:	N/A	Date Received:	10/11/2002
Sample Type:	Water	Date Analyzed:	10/17/2002

Base / Neutrals	Results in ug / L	Base / Neutrals	Results in ug / L
Acenaphthene	ND< 10.0	Dibenz (a,h) anthracene	ND< 10.0
Anthracene	ND< 10.0	Fluoranthene	ND< 10.0
Benzo (a) anthracene	ND< 10.0	Fluorene	ND< 10.0
Benzo (a) pyrene	ND< 10.0	Indeno (1,2,3-cd) pyrene	ND< 10.0
Benzo (b) fluoranthene	ND< 10.0	Naphthalene	ND< 10.0
Benzo (g,h,i) perylene	ND< 10.0	Phenanthrene	ND< 10.0
Benzo (k) fluoranthene	ND< 10.0	Pyrene	ND< 10.0
Chrysene	ND< 10.0	Acenaphthylene	ND< 10.0
Diethyl phthalate	76.3	1,2-Dichlorobenzene	ND< 10.0
Dimethyl phthalate	ND< 25.0	1,3-Dichlorobenzene	ND< 10.0
Butylbenzylphthalate	ND< 10.0	1,4-Dichlorobenzene	ND< 10.0
Di-n-butyl phthalate	ND< 10.0	1,2,4-Trichlorobenzene	ND< 10.0
Di-n-octylphthalate	ND< 10.0	Nitrobenzene	ND< 10.0
Bis (2-ethylhexyl) phthalate	ND< 10.0	2,4-Dinitrotoluene	ND< 10.0
2-Chloronaphthalene	ND< 10.0	2,6-Dinitrotoluene	ND< 10.0
Hexachlorobenzene	ND< 10.0	Bis (2-chloroethyl) ether	ND< 10.0
Hexachloroethane	ND< 10.0	Bis (2-chloroisopropyl) ether	ND< 10.0
Hexachlorocyclopentadiene	ND< 10.0	Bis (2-chloroethoxy) methane	ND< 10.0
Hexachlorobutadiene	ND< 10.0	4-Bromophenyl phenyl ether	ND< 10.0
N-Nitroso-di-n-propylamine	ND< 10.0	4-Chlorophenyl phenyl ether	ND< 10.0
N-Nitrosodiphenylamine	ND< 10.0	Benzidine	ND< 25.0
N-Nitrosodimethylamine	ND< 10.0	3,3'-Dichlorobenzidine	ND< 10.0
Isophorone	ND< 10.0		

Acids	Results in ug / L	Acids	Results in ug / L
Phenol	ND< 10.0	2,4-Dimethylphenol	ND< 10.0
2-Chlorophenol	ND< 10.0	2-Nitrophenol	ND< 10.0
2,4-Dichlorophenol	ND< 10.0	4-Nitrophenol	ND< 25.0
2,4,6-Trichlorophenol	ND< 10.0	2,4-Dinitrophenol	ND< 10.0
Pentachlorophenol	ND< 25.0	4,6-Dinitro-2-methylphenol	ND< 25.0
4-Chloro-3-methylphenol	ND< 10.0		

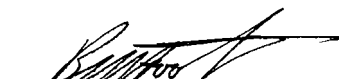
ELAP Number 10958

Method: EPA 625

Data File: 9010.D

Comments: ND denotes Non Detect
 ug / L = microgram per Liter

Signature:


 Bruce Hoogesteger, Technical Director

Volatile Analysis Report for Non-potable Water

Client: City of Rochester - DEQ

Client Job Site: RFA - Monthly Sampling

Lab Project Number: 02-2614

Client Job Number: DEQ-98045

Lab Sample Number: 10196

Field Location: Effluent

Date Sampled: 10/10/2002

Field ID Number: N/A

Date Received: 10/11/2002

Sample Type: Water

Date Analyzed: 10/15/2002

Halocarbons	Results in ug / L	Halocarbons	Results in ug / L
Bromodichloromethane	ND< 10.0	trans-1,2-Dichloroethene	ND< 10.0
Bromomethane	ND< 10.0	1,2-Dichloropropane	ND< 10.0
Bromoform	ND< 10.0	cis-1,3-Dichloropropene	ND< 10.0
Carbon tetrachloride	ND< 10.0	trans-1,3-Dichloropropene	ND< 10.0
Chloroethane	ND< 10.0	Methylene chloride	ND< 25.0
Chloromethane	ND< 10.0	1,1,2,2-Tetrachloroethane	ND< 10.0
2-Chloroethyl vinyl ether	ND< 10.0	Tetrachloroethene	ND< 10.0
Chloroform	ND< 10.0	1,1,1-Trichloroethane	79.0
Dibromochloromethane	ND< 10.0	1,1,2-Trichloroethane	ND< 10.0
1,1-Dichloroethane	10.9	Trichloroethene	ND< 10.0
1,2-Dichloroethane	ND< 10.0	Trichlorofluoromethane	ND< 10.0
1,1-Dichloroethene	ND< 10.0	Vinyl Chloride	ND< 10.0

Aromatics	Results in ug / L	Aromatics	Results in ug / L
Benzene	ND< 3.50	1,2-Dichlorobenzene	ND< 10.0
Chlorobenzene	ND< 10.0	1,3-Dichlorobenzene	ND< 10.0
Ethylbenzene	ND< 10.0	1,4-Dichlorobenzene	ND< 10.0
Toluene	ND< 10.0	Methyl tert-Butyl Ether	ND< 10.0

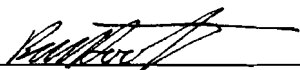
ELAP Number 10958

Method: EPA 601 / 602

Data File: 62251.D

Comments: ND denotes Non Detect
ug / L = microgram per Liter

Signature:


Bruce Hoogesteger, Technical Director

Volatile Analysis Report for Non-potable Water

Client: City of Rochester - DEQ

Client Job Site:	RFA - Monthly Sampling	Lab Project Number:	02-2614
Client Job Number:	DEQ-98045	Lab Sample Number:	10196
Field Location:	Effluent	Date Sampled:	10/10/2002
Field ID Number:	N/A	Date Received:	10/11/2002
Sample Type:	Water	Date Analyzed:	10/15/2002

Halocarbons	Results in ug / L
2-Chloroethyl vinyl ether	ND< 10.0

Ketones	Results in ug / L
Acetone	316
2-Butanone	242
2-Hexanone	ND< 25.0
4-Methyl-2-pentanone	87.6

ELAP Number 10958

Method: EPA 8015 Modified

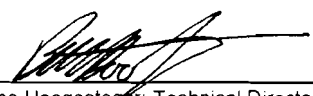
Aromatics	Results in ug / L
m,p - Xylene	ND< 10.0
o - Xylene	ND< 10.0
Styrene	ND< 10.0

Miscellaneous	Results in ug / L
Carbon disulfide	ND< 25.0
Vinyl acetate	ND< 25.0

Data File: 62251.D

Comments: ND denotes Non Detect
ug / L = microgram per Liter

Signature: _____


Bruce Hoogesteger: Technical Director

**PARADIGM**

ENVIRONMENTAL SERVICES, INC.

179 Lake Avenue, Rochester, NY 14608 (585) 647-2530 FAX (585) 647-3311

Client: City of Rochester - DEQ

Client Job Site: RFA - Monthly Sampling

Client Job No.: DEQ-98045

Field Location: Effluent

Field ID No.: N/A

Lab Project No.: 02-2614

Lab Sample No.: 10196

Sample Type: Water

Date Sampled: 10/10/2002

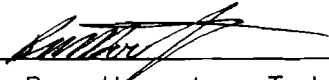
Date Received: 10/11/2002

Laboratory Report for Metals Analysis in Water

Parameter	Date Analyzed	Analytical Method	Result (mg/L)
Arsenic	10/14/2002	EPA 6010	0.020
Cadmium	10/14/2002	EPA 6010	<0.005
Chromium	10/14/2002	EPA 6010	<0.010
Copper	10/14/2002	EPA 6010	<0.010
Iron	10/14/2002	EPA 6010	2.13
Lead	10/14/2002	EPA 6010	<0.005
Manganese	10/14/2002	EPA 6010	0.332
Nickel	10/14/2002	EPA 6010	<0.040
Selenium	10/14/2002	EPA 6010	<0.005
Zinc	10/14/2002	EPA 6010	<0.020

ELAP ID No.:10958

Comments:

Approved By: 
Bruce Hoogesteger, Technical Director



PARADIGM

ENVIRONMENTAL SERVICES, INC.

179 Lake Avenue, Rochester, NY 14608 (585) 647-2530 FAX (585) 647-3311

Client: City of Rochester - DEQ

Lab Project No.: 02-2614

Client Job Site: RFA - Monthly Sampling

Sample Type: Water

Client Job No.: DEQ-98045

Method: EPA 9040

Date(s) Sampled: 10/10/2002

Date Received: 10/11/2002

Date Analyzed: 10/11/2002

Laboratory Report for pH Analysis

Lab Sample No.	Field ID No.	Field Location	pH Results (S.U.)
10196	N/A	Effluent	8.18

ELAP ID No.: 10958

Comments:

Approved By: _____

Bruce Hoogesteger, Technical Director

PARADIGM ENVIRONMENTAL SERVICES, INC.

179 Lake Avenue
Rochester, NY 14608
(716) 647-2530 * (800) 724-1997
FAX: (716) 647-3311

CH OF CUSTODY

REPORT TO:

INVOICE TO:

COMPANY: City of Rochester - DEC		COMPANY:		LAB PROJECT #:	CLIENT PROJECT #:
ADDRESS: 30 Church St Rm 300R		ADDRESS:		02-2644	
CITY: Rochester	STATE: NY	CITY:	STATE:	TURNAROUND TIME: (WORKING DAYS)	
ZIP: 14614		ZIP:			
PHONE: 428-7872	FAX: 428-6010	PHONE:	FAX:		
ATTN: JANE FORBES	ATTN:				
COMMENTS:					

PROJECT NAME/SITE NAME:
15EA monthly sample
DEC 98005

REQUESTED ANALYSIS

DATE	TIME	COMPOSITE	GRAB	SAMPLE LOCATION/FIELD ID	MATRIX	CONTAMINANTS	ANALYSIS	REMARKS	PARADIGM LAB SAMPLE NUMBER
10/10/02	1050		X	Effluent	16010		X X X X X X X		10196
2									
3									
4									
5									
6									
7									
8									
9									
10									

****LAB USE ONLY****

SAMPLE CONDITION: Check box if acceptable or note deviation:	CONTAINER TYPE: ☒	PRESERVATIONS: ☒	HOLDING TIME: ☒	TEMPERATURE: ☒ 18
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Sampled By: Jane M. Forbes	Date/Time: 10/16/02 1050
Relinquished By: J. P. ...	Date/Time: 10/11/02 1025
Received By: J. P. ...	Date/Time: 10/11/02 1055

Relinquished By:	Date/Time:
Received By:	Date/Time:
Received @ Lab By:	Date/Time:

Total Cost:
P.I.F.



PARADIGM

ENVIRONMENTAL SERVICES, INC.

179 Lake Avenue, Rochester, NY 14608 (585) 647-2530 FAX (585) 647-3311

Client: City of Rochester - DEQ

Lab Project No.: 02-3073

Client Job Site: Rochester Fire Academy
Quarterly Sampling

Sample Type: Water
Method: EPA 9040

Client Job No.: DEQ - 98045

Date(s) Sampled: 11/13/02
Date Received: 11/13/02
Date Analyzed: 11/13/02

Laboratory Report for pH Analysis

Lab Sample No.	Field ID No.	Field Location	pH Results (S.U.)
11417	N/A	Influent	7.20
11416	N/A	Effluent	8.12

ELAP ID No.: 10958

Comments:

Approved By: _____


Bruce Hogesteger, Technical Director



PARADIGM

ENVIRONMENTAL SERVICES, INC.

179 Lake Avenue Rochester, New York 14608 716-647-2530 FAX 716-647-3311

LABORATORY REPORT OF ANALYSIS

Client: City of Rochester

Lab Project No.: 02-3073

Client Job Site: RFA Quarterly Sampling

Client Job No.: DEQ-98045

Sample Type: Water

Analytical Method: EPA 365.2

Date Sampled: 11/13/2002

Date Received: 11/13/2002

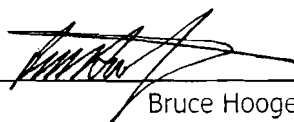
Date Analyzed: 11/18/2002

Lab Sample ID.	Sample Location/Field ID	Total Phosphorus (mg/l)
11416	Effluent	0.92

ELAP ID No. 10709

Comments: ND denotes non-detected.

Approved By Technical Director:



Bruce Hoogesteger

Client: **City of Rochester - DEQ**

Lab Project No. 02-3073

Client Job Site: Rochester Fire Academy

Lab Sample No. 11416

Quarterly Sampling

Sample Type: Water

Client Job No.: DEQ - 98045

Date Sampled: 11/13/02

Field Location: Effluent

Date Received: 11/13/02

Field ID No.: N/A

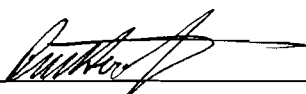
Laboratory Report for Metals Analysis

Parameter	Date Analyzed	Analytical Method	Result (mg/L)
Arsenic	11/18/02	EPA 200.7	0.016
Cadmium	11/18/02	EPA 200.7	<0.005
Chromium	11/18/02	EPA 200.7	<0.010
Copper	11/18/02	EPA 200.7	<0.010
Iron	11/18/02	EPA 200.7	2.81
Lead	11/18/02	EPA 200.7	<0.005
Manganese	11/18/02	EPA 200.7	0.408
Nickel	11/18/02	EPA 200.7	<0.040
Selenium	11/18/02	EPA 200.7	<0.005
Zinc	11/18/02	EPA 200.7	<0.020

ELAP ID No.:10958

Comments:

Approved By:


 Bruce Hoogesteger, Technical Director

Pesticide Analysis Report for Non-potable Water

Client: City of Rochester - DEQ

Client Job Site:	RFA - Qtly Sampling	Lab Project Number:	02-3073
		Lab Sample Number:	11416
Client Job Number:	DEQ-98045	Date Sampled:	11/13/2002
Field Location:	Effluent	Date Received:	11/13/2002
Field ID Number:	N/A	Date Analyzed:	11/20/2002
Sample Type:	Water		

Pesticide Identification	Results in ug / L
Aldrin	ND< 0.100
alpha-BHC	ND< 0.200
beta-BHC	ND< 0.200
delta-BHC	ND< 0.200
gamma-BHC	ND< 0.200
alpha-Chlordane	ND< 0.100
gamma-Chlordane	ND< 0.100
4,4'-DDD	ND< 0.100
4,4'-DDE	ND< 0.200
4,4'-DDT	ND< 0.100
Dieldrin	ND< 0.100
Endosulfan I	ND< 0.100
Endosulfan II	ND< 0.100
Endosulfan Sulfate	ND< 0.100
Endrin	ND< 0.100
Endrin Aldehyde	ND< 0.100
Heptachlor	ND< 0.100
Heptachlor Epoxide	ND< 0.100
Methoxychlor	ND< 0.100
Toxaphene	ND< 5.00

ELAP Number 10958

Method: EPA 608

Comments: ND denotes Non Detect
ug / L = microgram per Liter

Signature: _____

Bruce Hoogesteger, Technical Director

PCB Analysis Report for Non-potable Water

Client: City of Rochester - DEQ

Client Job Site:	RFA - Qtly Sampling	Lab Project Number:	02-3073
Client Job Number:	DEQ-98045	Lab Sample Number:	11416
Field Location:	Effluent	Date Sampled:	11/13/2002
Field ID Number:	N/A	Date Received:	11/13/2002
Sample Type:	Water	Date Analyzed:	11/19/2002

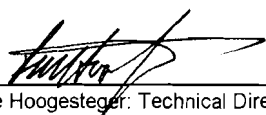
PCB Identification	Results in ug / L
Aroclor 1016	ND< 1.00
Aroclor 1221	ND< 1.00
Aroclor 1232	ND< 1.00
Aroclor 1242	ND< 1.00
Aroclor 1248	ND< 1.00
Aroclor 1254	ND< 1.00
Aroclor 1260	ND< 1.00

ELAP Number 10958

Method: EPA 608

Comments: ND denotes Non Detect
ug / L = microgram per Liter

Signature: _____


Bruce Hoogesteger: Technical Director

Semi-Volatile Analysis Report for Non-potable Water

Client: City of Rochester - DEQ

Client Job Site:	RFA - Qtly Sampling	Lab Project Number:	02-3073
Client Job Number:	DEQ-98045	Lab Sample Number:	11416
Field Location:	Effluent	Date Sampled:	11/13/2002
Field ID Number:	N/A	Date Received:	11/13/2002
Sample Type:	Water	Date Analyzed:	11/19/2002

Base / Neutrals	Results in ug / L	Base / Neutrals	Results in ug / L
Acenaphthene	ND< 10.0	Dibenz (a,h) anthracene	ND< 10.0
Anthracene	ND< 10.0	Fluoranthene	ND< 10.0
Benzo (a) anthracene	ND< 10.0	Fluorene	ND< 10.0
Benzo (a) pyrene	ND< 10.0	Indeno (1,2,3-cd) pyrene	ND< 10.0
Benzo (b) fluoranthene	ND< 10.0	Naphthalene	ND< 10.0
Benzo (g,h,i) perylene	ND< 10.0	Phenanthrene	ND< 10.0
Benzo (k) fluoranthene	ND< 10.0	Pyrene	ND< 10.0
Chrysene	ND< 10.0	Acenaphthylene	ND< 10.0
Diethyl phthalate	64.7	1,2-Dichlorobenzene	ND< 10.0
Dimethyl phthalate	ND< 25.0	1,3-Dichlorobenzene	ND< 10.0
Butylbenzylphthalate	ND< 10.0	1,4-Dichlorobenzene	ND< 10.0
Di-n-butyl phthalate	ND< 10.0	1,2,4-Trichlorobenzene	ND< 10.0
Di-n-octylphthalate	ND< 10.0	Nitrobenzene	ND< 10.0
Bis (2-ethylhexyl) phthalate	ND< 10.0	2,4-Dinitrotoluene	ND< 10.0
2-Chloronaphthalene	ND< 10.0	2,6-Dinitrotoluene	ND< 10.0
Hexachlorobenzene	ND< 10.0	Bis (2-chloroethyl) ether	ND< 10.0
Hexachloroethane	ND< 10.0	Bis (2-chloroisopropyl) ether	ND< 10.0
Hexachlorocyclopentadiene	ND< 10.0	Bis (2-chloroethoxy) methane	ND< 10.0
Hexachlorobutadiene	ND< 10.0	4-Bromophenyl phenyl ether	ND< 10.0
N-Nitroso-di-n-propylamine	ND< 10.0	4-Chlorophenyl phenyl ether	ND< 10.0
N-Nitrosodiphenylamine	ND< 10.0	Benzidine	ND< 25.0
N-Nitrosodimethylamine	ND< 10.0	3,3'-Dichlorobenzidine	ND< 10.0
Isophorone	ND< 10.0		

Acids	Results in ug / L	Acids	Results in ug / L
Phenol	ND< 10.0	2,4-Dimethylphenol	ND< 10.0
2-Chlorophenol	ND< 10.0	2-Nitrophenol	ND< 10.0
2,4-Dichlorophenol	ND< 10.0	4-Nitrophenol	ND< 25.0
2,4,6-Trichlorophenol	ND< 10.0	2,4-Dinitrophenol	ND< 10.0
Pentachlorophenol	ND< 25.0	4,6-Dinitro-2-methylphenol	ND< 25.0
4-Chloro-3-methylphenol	ND< 10.0		

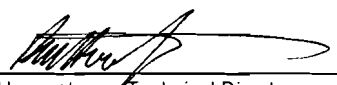
ELAP Number 10958

Method: EPA 625

Data File: 9487.D

Comments: ND denotes Non Detect
 ug / L = microgram per Liter

Signature:


 Bruce Hoogesteger, Technical Director

Volatile Analysis Report for Non-potable Water

Client: City of Rochester - DEQ

Client Job Site:	RFA - Quarterly Sampling	Lab Project Number:	02-3073
Client Job Number:	DEQ-98045	Lab Sample Number:	11416
Field Location:	Effluent	Date Sampled:	11/13/2002
Field ID Number:	N/A	Date Received:	11/13/2002
Sample Type:	Water	Date Analyzed:	11/20/2002

Halocarbons	Results in ug / L
2-Chloroethyl vinyl ether	ND< 4.00

Ketones	Results in ug / L
Acetone	332
2-Butanone	283
2-Hexanone	ND< 10.0
4-Methyl-2-pentanone	96.4

ELAP Number 10958

Method: EPA 8015 Modified

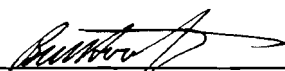
Aromatics	Results in ug / L
m,p - Xylene	ND< 4.00
o - Xylene	ND< 4.00
Styrene	ND< 4.00

Miscellaneous	Results in ug / L
Carbon disulfide	ND< 10.0
Vinyl acetate	ND< 10.0

Data File: 62852.D

Comments: ND denotes Non Detect
ug / L = microgram per Liter

Signature:


Bruce Hoogesteger: Technical Director

Volatile Analysis Report for Non-potable Water

Client: City of Rochester - DEQ

Client Job Site: RFA - Qtly. Sampling

Lab Project Number: 02-3073

Client Job Number: DEQ-98045

Lab Sample Number: 11416

Field Location: Effluent

Date Sampled: 11/13/2002

Field ID Number: N/A

Date Received: 11/13/2002

Sample Type: Water

Date Analyzed: 11/20/2002

Halocarbons	Results in ug / L	Halocarbons	Results in ug / L
Bromodichloromethane	ND< 4.00	trans-1,2-Dichloroethene	ND< 4.00
Bromomethane	ND< 4.00	1,2-Dichloropropane	ND< 4.00
Bromoform	ND< 4.00	cis-1,3-Dichloropropene	ND< 4.00
Carbon tetrachloride	ND< 4.00	trans-1,3-Dichloropropene	ND< 4.00
Chloroethane	ND< 4.00	Methylene chloride	ND< 10.0
Chloromethane	ND< 4.00	1,1,2,2-Tetrachloroethane	ND< 4.00
2-Chloroethyl vinyl ether	ND< 4.00	Tetrachloroethene	ND< 4.00
Chloroform	ND< 4.00	1,1,1-Trichloroethane	75.9
Dibromochloromethane	ND< 4.00	1,1,2-Trichloroethane	ND< 4.00
1,1-Dichloroethane	15.2	Trichloroethene	5.48
1,2-Dichloroethane	4.63	Trichlorofluoromethane	ND< 4.00
1,1-Dichloroethene	ND< 4.00	Vinyl Chloride	ND< 4.00

Aromatics	Results in ug / L	Aromatics	Results in ug / L
Benzene	ND< 1.40	1,2-Dichlorobenzene	ND< 4.00
Chlorobenzene	ND< 4.00	1,3-Dichlorobenzene	ND< 4.00
Ethylbenzene	ND< 4.00	1,4-Dichlorobenzene	ND< 4.00
Toluene	6.85		

ELAP Number 10958

Method: EPA 601 / 602

Data File: 62852.D

Comments: ND denotes Non Detect
 ug / L = microgram per Liter

Signature: _____

Bruce Hoogesteger: Technical Director

Client: City of Rochester

Lab Project No.: 02-3073

Client Job Site: RFA Quarterly Sampling

Sample Type: Water

Client Job No.: DEQ-98045

Analytical Method: EPA 310.1

Date Sampled: 11/13/2002

Date Received: 11/13/2002

Date Analyzed: 11/18/2002

Lab Sample ID	Sample Location/Field ID	Alkalinity, as CaCO ₃ (mg/l)
11417	Influent	490

ELAP ID No.: 10709

Comments: ND denotes non-detected.

Approved By: _____


Laboratory Director



Client: City of Rochester - DEQ

Lab Project No.: 02-3073

Client Job Site: Rochester Fire Academy
Quarterly Sampling

Client Job No.: DEQ - 98045

Sample Type: Water
Method: EPA 200.7
Date Sampled: 11/13/02
Date Received: 11/13/02

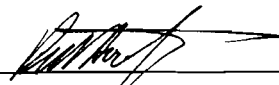
Laboratory Report for Hardness Analysis

Lab Sample No.:	Field ID	Field Location	Total Hardness (mg/L)
11417	N/A	Influent	532

ELAP ID No.:10958

Comments:

Approved By: _____


Bruce Hoggsteger, Technical Director

**PARADIGM**

ENVIRONMENTAL SERVICES, INC.

179 Lake Avenue, Rochester, NY 14608 (585) 647-2530 FAX (585) 647-3311

Client: City of Rochester - DEQ**Lab Project No.** 02-3073**Lab Sample No.** 11417**Client Job Site:** Rochester Fire Academy

Quarterly Sampling

Sample Type: Water**Client Job No.:** DEQ - 98045**Date Sampled:** 11/13/02**Field Location:** Influent**Date Received:** 11/13/02**Field ID No.:** N/A**Laboratory Report for Metals Analysis**

Parameter	Date Analyzed	Analytical Method	Result (mg/L)
Arsenic	11/18/02	EPA 200.7	0.015
Cadmium	11/18/02	EPA 200.7	<0.005
Chromium	11/18/02	EPA 200.7	<0.010
Copper	11/18/02	EPA 200.7	<0.010
Iron	11/18/02	EPA 200.7	2.39
Lead	11/18/02	EPA 200.7	<0.005
Manganese	11/18/02	EPA 200.7	0.280
Nickel	11/18/02	EPA 200.7	<0.040
Selenium	11/18/02	EPA 200.7	<0.005
Zinc	11/18/02	EPA 200.7	<0.020

ELAP ID No.:10958

Comments:

Approved By:

Bruce Hoogester, Technical Director

Pesticide Analysis Report for Non-potable Water

Client: City of Rochester - DEQ

Client Job Site:	RFA - Qtly Sampling	Lab Project Number:	02-3073
Client Job Number:	DEQ-98045	Lab Sample Number:	11417
Field Location:	Influent	Date Sampled:	11/21/2002
Field ID Number:	N/A	Date Received:	11/22/2002
Sample Type:	Water	Date Analyzed:	11/23/2002

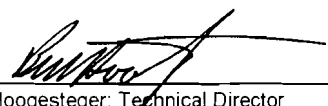
Pesticide Identification	Results in ug / L
Aldrin	ND< 0.100
alpha-BHC	ND< 0.100
beta-BHC	ND< 0.100
delta-BHC	ND< 0.100
gamma-BHC	ND< 0.100
alpha-Chlordane	ND< 0.100
gamma-Chlordane	ND< 0.100
4,4'-DDD	ND< 0.100
4,4'-DDE	ND< 0.200
4,4'-DDT	ND< 0.100
Dieldrin	ND< 0.100
Endosulfan I	ND< 0.100
Endosulfan II	ND< 0.100
Endosulfan Sulfate	ND< 0.100
Endrin	ND< 0.100
Endrin Aldehyde	ND< 0.100
Heptachlor	ND< 0.100
Heptachlor Epoxide	ND< 0.100
Methoxychlor	ND< 0.100
Toxaphene	ND< 5.00

ELAP Number 10958

Method: EPA 608

Comments: ND denotes Non Detect
ug / L = microgram per Liter

Signature: _____


Bruce Hoogesteger: Technical Director

PCB Analysis Report for Non-potable Water

Client: City of Rochester - DEQ

Client Job Site: RFA - Qtly Sampling

Lab Project Number: 02-3073

Client Job Number: DEQ-98045

Lab Sample Number: 11417

Field Location: Influent

Date Sampled: 11/21/2002

Field ID Number: N/A

Date Received: 11/22/2002

Sample Type: Water

Date Analyzed: 11/25/2002

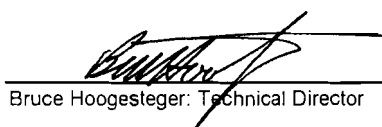
PCB Identification	Results in ug / L
Aroclor 1016	ND< 1.00
Aroclor 1221	ND< 1.00
Aroclor 1232	ND< 1.00
Aroclor 1242	ND< 1.00
Aroclor 1248	ND< 1.00
Aroclor 1254	ND< 1.00
Aroclor 1260	ND< 1.00

ELAP Number 10958

Method: EPA 608

Comments: ND denotes Non Detect
ug / L = microgram per Liter

Signature:


Bruce Hoogesteger: Technical Director

Volatile Analysis Report for Non-potable Water

Client: City of Rochester - DEQ

Client Job Site:	RFA - Qtly. Sampling	Lab Project Number:	02-3073
Client Job Number:	DEQ-98045	Lab Sample Number:	11417
Field Location:	Influent	Date Sampled:	11/13/2002
Field ID Number:	N/A	Date Received:	11/13/2002
Sample Type:	Water	Date Analyzed:	11/20/2002

Halocarbons	Results in ug / L	Halocarbons	Results in ug / L
Bromodichloromethane	ND< 400	trans-1,2-Dichloroethene	ND< 400
Bromomethane	ND< 400	1,2-Dichloropropane	ND< 400
Bromoform	ND< 400	cis-1,3-Dichloropropene	ND< 400
Carbon tetrachloride	ND< 400	trans-1,3-Dichloropropene	ND< 400
Chloroethane	ND< 400	Methylene chloride	ND< 1,000
Chloromethane	ND< 400	1,1,2,2-Tetrachloroethane	ND< 400
2-Chloroethyl vinyl ether	ND< 400	Tetrachloroethene	ND< 400
Chloroform	ND< 400	1,1,1-Trichloroethane	18,100
Dibromochloromethane	ND< 400	1,1,2-Trichloroethane	ND< 400
1,1-Dichloroethane	2,870	Trichloroethene	1,150
1,2-Dichloroethane	ND< 400	Trichlorofluoromethane	ND< 400
1,1-Dichloroethene	ND< 400	Vinyl Chloride	939

Aromatics	Results in ug / L	Aromatics	Results in ug / L
Benzene	ND< 140	1,2-Dichlorobenzene	ND< 400
Chlorobenzene	ND< 400	1,3-Dichlorobenzene	ND< 400
Ethylbenzene	ND< 400	1,4-Dichlorobenzene	ND< 400
Toluene	2,180		

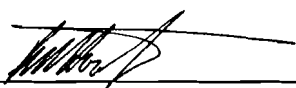
ELAP Number 10958

Method: EPA 601 / 602

Data File: 62853.D

Comments: ND denotes Non Detect
 ug / L = microgram per Liter

Signature:


 Bruce Hoogesteger: Technical Director

PARADIGM ENVIRONMENTAL SERVICES, INC.

179 Lake Avenue
Rochester, NY 14608
(585) 647-2530 • (800) 724-1997
FAX: (585) 647-3311

CH I OF CUSTODY

REPORT TO: INVOICE TO:

COMPANY: City of Rochester DEQ	COMPANY:	LAB PROJECT #: 003073	CLIENT PROJECT #:
ADDRESS: 601 Church St. Rm 300B	ADDRESS:		
CITY: Rochester NY	CITY:	STATE: 14604	TURNAROUND TIME: (WORKING DAYS)
PHONE: 585-7892	PHONE:	FAX: 428-6010	
ATTN: Jane Forber	ATTN:	STD 1 2 3 5	OTHER

PROJECT NAME/SITE NAME: RFA #1000000 Q11y.
Sampling DEQ-98045

COMMENTS: metalab 75, Fe, Cd, Cr, Cu, Pb, Mn, Ni, Se, Zn

REQUESTED ANALYSIS

DATE	TIME	COMPOSITE	GRA B	SAMPLE LOCATION/FIELD ID	MATRIX	CONTAMINANTS	601/602	8015	625	Post/Pre 602	Phosphorus	Metals	pH	Alkalinity	Hardness	REMARKS	PARADIGM LAB SAMPLE NUMBER
11/13/02			X	Effluent	H ₂ O	601/602	X	X	X	X	X	X	X	X	X		11416
2/13/02			X	Influent	H ₂ O	8015	X	X	X	X	X	X	X	X	X		11417
3																	
4																	
5																	
6																	
7																	
8																	
9																	
10																	

LAB USE ONLY

SAMPLE CONDITION: Check box if acceptable or note deviation:	CONTAINER TYPE:	PRESERVATIONS:	HOLDING TIME:	TEMPERATURE: 17°C
--	-----------------	----------------	---------------	-------------------

Sampled By: Jane M. Forber	Date/Time: 11/13/02 1415	Relinquished By:	Date/Time:	Total Cost:
Relinquished By:	Date/Time:	Received By:	Date/Time:	
Received By:	Date/Time:	Received @ Lab By: [Signature]	Date/Time: 11/13/02 1530	P.I.F.

PARADIGM ENVIRONMENTAL SERVICES, INC.

179 Lake Avenue
Rochester, NY 14608
(585) 647-2530 * (800) 724-1997
FAX: (585) 647-3311

CHAIN OF CUSTODY

REPORT TO:		INVOICE TO:	
COMPANY: COR - DEQ.	COMPANY:	LAB PROJECT #: 02-3073	CLIENT PROJECT #:
ADDRESS: 30 Church St. Rm 300B	ADDRESS:	TURNAROUND TIME: (WORKING DAYS)	
CITY: Rochester, NY STATE: ZIP: 14614	CITY: STATE: ZIP:		
PHONE: 428-7892 FAX:	PHONE: FAX:		
PROJECT NAME/SITE NAME: RFA - Otly Sampling	ATTN: Jane Forbes	☐ 1 ☐ 2 ☐ 3 ☒ 5 ☐ OTHER	
COMMENTS:			

REQUESTED ANALYSIS

DATE	TIME	COMPOSITE	GRAB	SAMPLE LOCATION/FIELD ID	MATRIX	CONTAINER	PCBS												REMARKS	PARADIGM LAB SAMPLE NUMBER
11/21/02			✓	Influent	H ₂ O	2	X												resample	11417
2																				
3																				
4																				
5																				
6																				
7																				
8																				
9																				
10																				

****LAB USE ONLY****

SAMPLE CONDITION: Check box if acceptable or note deviation:	CONTAINER TYPE: ☐	PRESERVATIONS: ☐	HOLDING TIME: ☐	TEMPERATURE: ☒ 13°
--	--	---	--	--

Sampled By: <u>JMHF</u> Relinquished By: <u>Jane Forbes</u> Received By: <u>[Signature]</u>	Date/Time: 11/21/02 1400 Date/Time: 11/22/02 1140 Date/Time: 11/22/02 11:30	Relinquished By: _____ Received By: _____ Received @ Lab By: <u>[Signature]</u>	Date/Time: _____ Date/Time: _____ Date/Time: 11-22-02 1250	Total Cost: _____ P.I.F. _____
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Volatile Analysis Report for Non-potable Water

Client: City of Rochester - DEQ

Client Job Site: RFA - Semi Annual
 Well Sampling
Client Job Number: DEQ-98045
Field Location: 6I
Field ID Number: N/A
Sample Type: Water

Lab Project Number: 02-3075
Lab Sample Number: 11419
Date Sampled: 11/13/2002
Date Received: 11/13/2002
Date Analyzed: 11/19/2002

Halocarbons	Results in ug / L	Halocarbons	Results in ug / L
Bromodichloromethane	ND< 2.00	trans-1,2-Dichloroethene	ND< 2.00
Bromomethane	ND< 2.00	1,2-Dichloropropane	ND< 2.00
Bromoform	ND< 2.00	cis-1,3-Dichloropropene	ND< 2.00
Carbon tetrachloride	ND< 2.00	trans-1,3-Dichloropropene	ND< 2.00
Chloroethane	ND< 2.00	Methylene chloride	ND< 5.00
Chloromethane	ND< 2.00	1,1,2,2-Tetrachloroethane	ND< 2.00
2-Chloroethyl vinyl ether	ND< 2.00	Tetrachloroethene	ND< 2.00
Chloroform	ND< 2.00	1,1,1-Trichloroethane	ND< 2.00
Dibromochloromethane	ND< 2.00	1,1,2-Trichloroethane	ND< 2.00
1,1-Dichloroethane	ND< 2.00	Trichloroethene	ND< 2.00
1,2-Dichloroethane	ND< 2.00	Trichlorofluoromethane	ND< 2.00
1,1-Dichloroethene	ND< 2.00	Vinyl Chloride	ND< 2.00

Aromatics	Results in ug / L	Aromatics	Results in ug / L
Benzene	ND< 0.700	1,2-Dichlorobenzene	ND< 2.00
Chlorobenzene	ND< 2.00	1,3-Dichlorobenzene	ND< 2.00
Ethylbenzene	ND< 2.00	1,4-Dichlorobenzene	ND< 2.00
Toluene	ND< 2.00		

ELAP Number 10958

Method: EPA 601 / 602

Data File: 62831.D

Comments: ND denotes Non Detect
 ug / L = microgram per Liter

Signature:


 Bruce Hoogesteger: Technical Director

Volatile Analysis Report for Non-potable Water

Client: City of Rochester - DEQ

Client Job Site: RFA - Semi Annual
 Well Sampling
Client Job Number: DEQ-98045
Field Location: 6S
Field ID Number: N/A
Sample Type: Water

Lab Project Number: 02-3075
Lab Sample Number: 11420
Date Sampled: 11/13/2002
Date Received: 11/13/2002
Date Analyzed: 11/19/2002

Halocarbons	Results in ug / L	Halocarbons	Results in ug / L
Bromodichloromethane	ND< 2.00	trans-1,2-Dichloroethene	ND< 2.00
Bromomethane	ND< 2.00	1,2-Dichloropropane	ND< 2.00
Bromoform	ND< 2.00	cis-1,3-Dichloropropene	ND< 2.00
Carbon tetrachloride	ND< 2.00	trans-1,3-Dichloropropene	ND< 2.00
Chloroethane	ND< 2.00	Methylene chloride	ND< 5.00
Chloromethane	ND< 2.00	1,1,2,2-Tetrachloroethane	ND< 2.00
2-Chloroethyl vinyl ether	ND< 2.00	Tetrachloroethene	ND< 2.00
Chloroform	ND< 2.00	1,1,1-Trichloroethane	ND< 2.00
Dibromochloromethane	ND< 2.00	1,1,2-Trichloroethane	ND< 2.00
1,1-Dichloroethane	ND< 2.00	Trichloroethene	3.83
1,2-Dichloroethane	ND< 2.00	Trichlorofluoromethane	ND< 2.00
1,1-Dichloroethene	ND< 2.00	Vinyl Chloride	ND< 2.00

Aromatics	Results in ug / L	Aromatics	Results in ug / L
Benzene	ND< 0.700	1,2-Dichlorobenzene	ND< 2.00
Chlorobenzene	ND< 2.00	1,3-Dichlorobenzene	ND< 2.00
Ethylbenzene	ND< 2.00	1,4-Dichlorobenzene	ND< 2.00
Toluene	ND< 2.00		

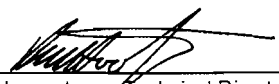
ELAP Number 10958

Method: EPA 601 / 602

Data File: 62832.D

Comments: ND denotes Non Detect
 ug / L = microgram per Liter

Signature:


 Bruce Hoogesteger, Technical Director

Volatile Analysis Report for Non-potable Water

Client: City of Rochester - DEQ

Client Job Site: RFA - Semi Annual
 Well Sampling
Client Job Number: DEQ-98045
Field Location: 71
Field ID Number: N/A
Sample Type: Water

Lab Project Number: 02-3075
Lab Sample Number: 11421
Date Sampled: 11/13/2002
Date Received: 11/13/2002
Date Analyzed: 11/20/2002

Halocarbons	Results in ug / L	Halocarbons	Results in ug / L
Bromodichloromethane	ND< 4.00	trans-1,2-Dichloroethene	ND< 4.00
Bromomethane	ND< 4.00	1,2-Dichloropropane	ND< 4.00
Bromoform	ND< 4.00	cis-1,3-Dichloropropene	ND< 4.00
Carbon tetrachloride	ND< 4.00	trans-1,3-Dichloropropene	ND< 4.00
Chloroethane	ND< 4.00	Methylene chloride	ND< 10.0
Chloromethane	ND< 4.00	1,1,2,2-Tetrachloroethane	ND< 4.00
2-Chloroethyl vinyl ether	ND< 4.00	Tetrachloroethene	ND< 4.00
Chloroform	ND< 4.00	1,1,1-Trichloroethane	13.1
Dibromochloromethane	ND< 4.00	1,1,2-Trichloroethane	ND< 4.00
1,1-Dichloroethane	337	Trichloroethene	ND< 4.00
1,2-Dichloroethane	ND< 4.00	Trichlorofluoromethane	ND< 4.00
1,1-Dichloroethene	ND< 4.00	Vinyl Chloride	4.13

Aromatics	Results in ug / L	Aromatics	Results in ug / L
Benzene	ND< 1.40	1,2-Dichlorobenzene	ND< 4.00
Chlorobenzene	ND< 4.00	1,3-Dichlorobenzene	ND< 4.00
Ethylbenzene	ND< 4.00	1,4-Dichlorobenzene	ND< 4.00
Toluene	ND< 4.00		

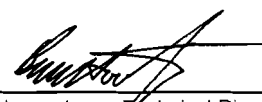
ELAP Number 10958

Method: EPA 601 / 602

Data File: 62850.D

Comments: ND denotes Non Detect
 ug / L = microgram per Liter

Signature:


 Bruce Hoogesteger, Technical Director

Volatile Analysis Report for Non-potable Water

Client: City of Rochester - DEQ

Client Job Site: RFA - Semi Annual
 Well Sampling
Client Job Number: DEQ-98045
Field Location: 7D
Field ID Number: N/A
Sample Type: Water

Lab Project Number: 02-3075
Lab Sample Number: 11422
Date Sampled: 11/13/2002
Date Received: 11/13/2002
Date Analyzed: 11/19/2002

Halocarbons	Results in ug / L	Halocarbons	Results in ug / L
Bromodichloromethane	ND< 2.00	trans-1,2-Dichloroethene	ND< 2.00
Bromomethane	ND< 2.00	1,2-Dichloropropane	ND< 2.00
Bromoform	ND< 2.00	cis-1,3-Dichloropropene	ND< 2.00
Carbon tetrachloride	ND< 2.00	trans-1,3-Dichloropropene	ND< 2.00
Chloroethane	ND< 2.00	Methylene chloride	ND< 5.00
Chloromethane	ND< 2.00	1,1,2,2-Tetrachloroethane	ND< 2.00
2-Chloroethyl vinyl ether	ND< 2.00	Tetrachloroethene	ND< 2.00
Chloroform	ND< 2.00	1,1,1-Trichloroethane	ND< 2.00
Dibromochloromethane	ND< 2.00	1,1,2-Trichloroethane	ND< 2.00
1,1-Dichloroethane	ND< 2.00	Trichloroethene	ND< 2.00
1,2-Dichloroethane	ND< 2.00	Trichlorofluoromethane	ND< 2.00
1,1-Dichloroethene	ND< 2.00	Vinyl Chloride	ND< 2.00

Aromatics	Results in ug / L	Aromatics	Results in ug / L
Benzene	ND< 0.700	1,2-Dichlorobenzene	ND< 2.00
Chlorobenzene	ND< 2.00	1,3-Dichlorobenzene	ND< 2.00
Ethylbenzene	ND< 2.00	1,4-Dichlorobenzene	ND< 2.00
Toluene	ND< 2.00		

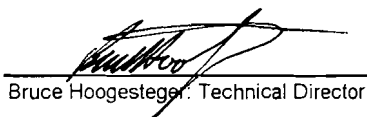
ELAP Number 10958

Method: EPA 601 / 602

Data File: 62834.D

Comments: ND denotes Non Detect
 ug / L = microgram per Liter

Signature:


 Bruce Hoogesteger, Technical Director

Volatile Analysis Report for Non-potable Water

Client: City of Rochester - DEQ

Client Job Site: RFA - Semi Annual
 Well Sampling
Client Job Number: DEQ-98045
Field Location: 7S
Field ID Number: N/A
Sample Type: Water

Lab Project Number: 02-3075
Lab Sample Number: 11423
Date Sampled: 11/13/2002
Date Received: 11/13/2002
Date Analyzed: 11/20/2002

Halocarbons	Results in ug / L	Halocarbons	Results in ug / L
Bromodichloromethane	ND< 20.0	trans-1,2-Dichloroethene	ND< 20.0
Bromomethane	ND< 20.0	1,2-Dichloropropane	ND< 20.0
Bromoform	ND< 20.0	cis-1,3-Dichloropropene	ND< 20.0
Carbon tetrachloride	ND< 20.0	trans-1,3-Dichloropropene	ND< 20.0
Chloroethane	503	Methylene chloride	ND< 50.0
Chloromethane	ND< 20.0	1,1,2,2-Tetrachloroethane	ND< 20.0
2-Chloroethyl vinyl ether	ND< 20.0	Tetrachloroethene	ND< 20.0
Chloroform	ND< 20.0	1,1,1-Trichloroethane	112
Dibromochloromethane	ND< 20.0	1,1,2-Trichloroethane	ND< 20.0
1,1-Dichloroethane	757	Trichloroethene	ND< 20.0
1,2-Dichloroethane	ND< 20.0	Trichlorofluoromethane	ND< 20.0
1,1-Dichloroethene	ND< 20.0	Vinyl Chloride	ND< 20.0

Aromatics	Results in ug / L	Aromatics	Results in ug / L
Benzene	ND< 7.00	1,2-Dichlorobenzene	ND< 20.0
Chlorobenzene	ND< 20.0	1,3-Dichlorobenzene	ND< 20.0
Ethylbenzene	ND< 791	1,4-Dichlorobenzene	ND< 20.0
Toluene	86.6		

ELAP Number 10958

Method: EPA 601 / 602

Data File: 62851.D

Comments: ND denotes Non Detect
 ug / L = microgram per Liter

Signature:


 Bruce Hoogesteger, Technical Director

Volatile Analysis Report for Non-potable Water

Client: City of Rochester - DEQ

Client Job Site: RFA - Semi Annual
Well Sampling
Client Job Number: DEQ-98045
Field Location: 8I
Field ID Number: N/A
Sample Type: Water

Lab Project Number: 02-3075
Lab Sample Number: 11424
Date Sampled: 11/13/2002
Date Received: 11/13/2002
Date Analyzed: 11/19/2002

Halocarbons	Results in ug / L	Halocarbons	Results in ug / L
Bromodichloromethane	ND< 2.00	trans-1,2-Dichloroethene	ND< 2.00
Bromomethane	ND< 2.00	1,2-Dichloropropane	ND< 2.00
Bromoform	ND< 2.00	cis-1,3-Dichloropropene	ND< 2.00
Carbon tetrachloride	ND< 2.00	trans-1,3-Dichloropropene	ND< 2.00
Chloroethane	ND< 2.00	Methylene chloride	ND< 5.00
Chloromethane	ND< 2.00	1,1,2,2-Tetrachloroethane	ND< 2.00
2-Chloroethyl vinyl ether	ND< 2.00	Tetrachloroethene	ND< 2.00
Chloroform	ND< 2.00	1,1,1-Trichloroethane	ND< 2.00
Dibromochloromethane	ND< 2.00	1,1,2-Trichloroethane	ND< 2.00
1,1-Dichloroethane	3.51	Trichloroethene	ND< 2.00
1,2-Dichloroethane	ND< 2.00	Trichlorofluoromethane	ND< 2.00
1,1-Dichloroethene	ND< 2.00	Vinyl Chloride	33.2

Aromatics	Results in ug / L	Aromatics	Results in ug / L
Benzene	ND< 0.700	1,2-Dichlorobenzene	ND< 2.00
Chlorobenzene	ND< 2.00	1,3-Dichlorobenzene	ND< 2.00
Ethylbenzene	ND< 2.00	1,4-Dichlorobenzene	ND< 2.00
Toluene	ND< 2.00		

ELAP Number 10958

Method: EPA 601 / 602

Data File: 62836.D

Comments: ND denotes Non Detect
ug / L = microgram per Liter

Signature:


Bruce Hoogesteger, Technical Director

Volatile Analysis Report for Non-potable Water

Client: City of Rochester - DEQ

Client Job Site: RFA - Semi Annual
 Well Sampling
Client Job Number: DEQ-98045
Field Location: 8S
Field ID Number: N/A
Sample Type: Water

Lab Project Number: 02-3075
Lab Sample Number: 11425
Date Sampled: 11/13/2002
Date Received: 11/13/2002
Date Analyzed: 11/19/2002

Halocarbons	Results in ug / L	Halocarbons	Results in ug / L
Bromodichloromethane	ND< 2.00	trans-1,2-Dichloroethene	ND< 2.00
Bromomethane	ND< 2.00	1,2-Dichloropropane	ND< 2.00
Bromoform	ND< 2.00	cis-1,3-Dichloropropene	ND< 2.00
Carbon tetrachloride	ND< 2.00	trans-1,3-Dichloropropene	ND< 2.00
Chloroethane	ND< 2.00	Methylene chloride	ND< 5.00
Chloromethane	ND< 2.00	1,1,2,2-Tetrachloroethane	ND< 2.00
2-Chloroethyl vinyl ether	ND< 2.00	Tetrachloroethene	ND< 2.00
Chloroform	ND< 2.00	1,1,1-Trichloroethane	ND< 2.00
Dibromochloromethane	ND< 2.00	1,1,2-Trichloroethane	ND< 2.00
1,1-Dichloroethane	ND< 2.00	Trichloroethene	ND< 2.00
1,2-Dichloroethane	ND< 2.00	Trichlorofluoromethane	ND< 2.00
1,1-Dichloroethene	ND< 2.00	Vinyl Chloride	ND< 2.00

Aromatics	Results in ug / L	Aromatics	Results in ug / L
Benzene	ND< 0.700	1,2-Dichlorobenzene	ND< 2.00
Chlorobenzene	ND< 2.00	1,3-Dichlorobenzene	ND< 2.00
Ethylbenzene	ND< 2.00	1,4-Dichlorobenzene	ND< 2.00
Toluene	ND< 2.00		

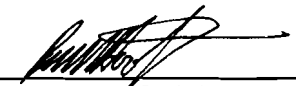
ELAP Number 10958

Method: EPA 601 / 602

Data File: 62837.D

Comments: ND denotes Non Detect
 ug / L = microgram per Liter

Signature:


 Bruce Hoogesteger, Technical Director

Volatile Analysis Report for Non-potable Water

Client: City of Rochester - DEQ

Client Job Site: RFA - Semi Annual
 Well Sampling
Client Job Number: DEQ-98045
Field Location: 9S
Field ID Number: N/A
Sample Type: Water

Lab Project Number: 02-3075
Lab Sample Number: 11426
Date Sampled: 11/13/2002
Date Received: 11/13/2002
Date Analyzed: 11/19/2002

Halocarbons	Results in ug / L	Halocarbons	Results in ug / L
Bromodichloromethane	ND< 2.00	trans-1,2-Dichloroethene	ND< 2.00
Bromomethane	ND< 2.00	1,2-Dichloropropane	ND< 2.00
Bromoform	ND< 2.00	cis-1,3-Dichloropropene	ND< 2.00
Carbon tetrachloride	ND< 2.00	trans-1,3-Dichloropropene	ND< 2.00
Chloroethane	ND< 2.00	Methylene chloride	ND< 5.00
Chloromethane	ND< 2.00	1,1,2,2-Tetrachloroethane	ND< 2.00
2-Chloroethyl vinyl ether	ND< 2.00	Tetrachloroethene	ND< 2.00
Chloroform	ND< 2.00	1,1,1-Trichloroethane	ND< 2.00
Dibromochloromethane	ND< 2.00	1,1,2-Trichloroethane	ND< 2.00
1,1-Dichloroethane	ND< 2.00	Trichloroethene	ND< 2.00
1,2-Dichloroethane	ND< 2.00	Trichlorofluoromethane	ND< 2.00
1,1-Dichloroethene	ND< 2.00	Vinyl Chloride	ND< 2.00

Aromatics	Results in ug / L	Aromatics	Results in ug / L
Benzene	ND< 0.700	1,2-Dichlorobenzene	ND< 2.00
Chlorobenzene	ND< 2.00	1,3-Dichlorobenzene	ND< 2.00
Ethylbenzene	ND< 2.00	1,4-Dichlorobenzene	ND< 2.00
Toluene	ND< 2.00		

ELAP Number 10958

Method: EPA 601 / 602

Data File: 62838.D

Comments: ND denotes Non Detect
 ug / L = microgram per Liter

Signature:


 Bruce Hoogesteger, Technical Director

Volatile Analysis Report for Non-potable Water

Client: City of Rochester - DEQ

Client Job Site: RFA - Semi Annual
 Well Sampling
Client Job Number: DEQ-98045
Field Location: 9D
Field ID Number: N/A
Sample Type: Water

Lab Project Number: 02-3075
Lab Sample Number: 11427
Date Sampled: 11/13/2002
Date Received: 11/13/2002
Date Analyzed: 11/19/2002

Halocarbons	Results in ug / L	Halocarbons	Results in ug / L
Bromodichloromethane	ND< 2.00	trans-1,2-Dichloroethene	ND< 2.00
Bromomethane	ND< 2.00	1,2-Dichloropropane	ND< 2.00
Bromoform	ND< 2.00	cis-1,3-Dichloropropene	ND< 2.00
Carbon tetrachloride	ND< 2.00	trans-1,3-Dichloropropene	ND< 2.00
Chloroethane	ND< 2.00	Methylene chloride	ND< 5.00
Chloromethane	ND< 2.00	1,1,2,2-Tetrachloroethane	ND< 2.00
2-Chloroethyl vinyl ether	ND< 2.00	Tetrachloroethene	ND< 2.00
Chloroform	ND< 2.00	1,1,1-Trichloroethane	ND< 2.00
Dibromochloromethane	ND< 2.00	1,1,2-Trichloroethane	ND< 2.00
1,1-Dichloroethane	ND< 2.00	Trichloroethene	ND< 2.00
1,2-Dichloroethane	ND< 2.00	Trichlorofluoromethane	ND< 2.00
1,1-Dichloroethene	ND< 2.00	Vinyl Chloride	ND< 2.00

Aromatics	Results in ug / L	Aromatics	Results in ug / L
Benzene	ND< 0.700	1,2-Dichlorobenzene	ND< 2.00
Chlorobenzene	ND< 2.00	1,3-Dichlorobenzene	ND< 2.00
Ethylbenzene	ND< 2.00	1,4-Dichlorobenzene	ND< 2.00
Toluene	ND< 2.00		

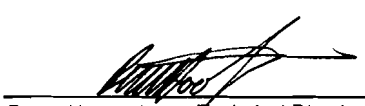
ELAP Number 10958

Method: EPA 601 / 602

Data File: 62839.D

Comments: ND denotes Non Detect
 ug / L = microgram per Liter

Signature:


 Bruce Hoogesteger, Technical Director

Volatile Analysis Report for Non-potable Water

Client: City of Rochester - DEQ

Client Job Site: RFA - Semi Annual
 Well Sampling
Client Job Number: DEQ-98045
Field Location: 10I
Field ID Number: N/A
Sample Type: Water

Lab Project Number: 02-3075
Lab Sample Number: 11428
Date Sampled: 11/13/2002
Date Received: 11/13/2002
Date Analyzed: 11/19/2002

Halocarbons	Results in ug / L	Halocarbons	Results in ug / L
Bromodichloromethane	ND< 2.00	trans-1,2-Dichloroethene	ND< 2.00
Bromomethane	ND< 2.00	1,2-Dichloropropane	ND< 2.00
Bromoform	ND< 2.00	cis-1,3-Dichloropropene	ND< 2.00
Carbon tetrachloride	ND< 2.00	trans-1,3-Dichloropropene	ND< 2.00
Chloroethane	ND< 2.00	Methylene chloride	ND< 5.00
Chloromethane	ND< 2.00	1,1,2,2-Tetrachloroethane	ND< 2.00
2-Chloroethyl vinyl ether	ND< 2.00	Tetrachloroethene	ND< 2.00
Chloroform	ND< 2.00	1,1,1-Trichloroethane	ND< 2.00
Dibromochloromethane	ND< 2.00	1,1,2-Trichloroethane	ND< 2.00
1,1-Dichloroethane	ND< 2.00	Trichloroethene	ND< 2.00
1,2-Dichloroethane	ND< 2.00	Trichlorofluoromethane	ND< 2.00
1,1-Dichloroethene	ND< 2.00	Vinyl Chloride	ND< 2.00

Aromatics	Results in ug / L	Aromatics	Results in ug / L
Benzene	ND< 0.700	1,2-Dichlorobenzene	ND< 2.00
Chlorobenzene	ND< 2.00	1,3-Dichlorobenzene	ND< 2.00
Ethylbenzene	ND< 2.00	1,4-Dichlorobenzene	ND< 2.00
Toluene	ND< 2.00		

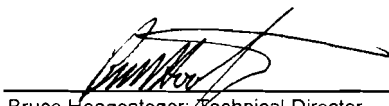
ELAP Number 10958

Method: EPA 601 / 602

Data File: 62841.D

Comments: ND denotes Non Detect
 ug / L = microgram per Liter

Signature:


 Bruce Hoogesteger, Technical Director

Volatile Analysis Report for Non-potable Water

Client: City of Rochester - DEQ

Client Job Site: RFA - Semi Annual
 Well Sampling
Client Job Number: DEQ-98045
Field Location: 10S
Field ID Number: N/A
Sample Type: Water

Lab Project Number: 02-3075
Lab Sample Number: 11429
Date Sampled: 11/13/2002
Date Received: 11/13/2002
Date Analyzed: 11/19/2002

Halocarbons	Results in ug / L	Halocarbons	Results in ug / L
Bromodichloromethane	ND< 2.00	trans-1,2-Dichloroethene	ND< 2.00
Bromomethane	ND< 2.00	1,2-Dichloropropane	ND< 2.00
Bromoform	ND< 2.00	cis-1,3-Dichloropropene	ND< 2.00
Carbon tetrachloride	ND< 2.00	trans-1,3-Dichloropropene	ND< 2.00
Chloroethane	ND< 2.00	Methylene chloride	ND< 5.00
Chloromethane	ND< 2.00	1,1,2,2-Tetrachloroethane	ND< 2.00
2-Chloroethyl vinyl ether	ND< 2.00	Tetrachloroethene	ND< 2.00
Chloroform	ND< 2.00	1,1,1-Trichloroethane	ND< 2.00
Dibromochloromethane	ND< 2.00	1,1,2-Trichloroethane	ND< 2.00
1,1-Dichloroethane	ND< 2.00	Trichloroethene	ND< 2.00
1,2-Dichloroethane	ND< 2.00	Trichlorofluoromethane	ND< 2.00
1,1-Dichloroethene	ND< 2.00	Vinyl Chloride	ND< 2.00

Aromatics	Results in ug / L	Aromatics	Results in ug / L
Benzene	ND< 0.700	1,2-Dichlorobenzene	ND< 2.00
Chlorobenzene	ND< 2.00	1,3-Dichlorobenzene	ND< 2.00
Ethylbenzene	ND< 2.00	1,4-Dichlorobenzene	ND< 2.00
Toluene	ND< 2.00		

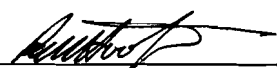
ELAP Number 10958

Method: EPA 601 / 602

Data File: 62842.D

Comments: ND denotes Non Detect
 ug / L = microgram per Liter

Signature:


 Bruce Hoogesteger: Technical Director

Volatile Analysis Report for Non-potable Water

Client: City of Rochester - DEQ

Client Job Site: RFA - Semi Annual
 Well Sampling
Client Job Number: DEQ-98045
Field Location: 11I
Field ID Number: N/A
Sample Type: Water

Lab Project Number: 02-3075
Lab Sample Number: 11430

Date Sampled: 11/13/2002
Date Received: 11/13/2002
Date Analyzed: 11/19/2002

Halocarbons	Results in ug / L	Halocarbons	Results in ug / L
Bromodichloromethane	ND< 2.00	trans-1,2-Dichloroethene	ND< 2.00
Bromomethane	ND< 2.00	1,2-Dichloropropane	ND< 2.00
Bromoform	ND< 2.00	cis-1,3-Dichloropropene	ND< 2.00
Carbon tetrachloride	ND< 2.00	trans-1,3-Dichloropropene	ND< 2.00
Chloroethane	ND< 2.00	Methylene chloride	ND< 5.00
Chloromethane	ND< 2.00	1,1,2,2-Tetrachloroethane	ND< 2.00
2-Chloroethyl vinyl ether	ND< 2.00	Tetrachloroethene	ND< 2.00
Chloroform	ND< 2.00	1,1,1-Trichloroethane	ND< 2.00
Dibromochloromethane	ND< 2.00	1,1,2-Trichloroethane	ND< 2.00
1,1-Dichloroethane	ND< 2.00	Trichloroethene	ND< 2.00
1,2-Dichloroethane	ND< 2.00	Trichlorofluoromethane	ND< 2.00
1,1-Dichloroethene	ND< 2.00	Vinyl Chloride	20.9

Aromatics	Results in ug / L	Aromatics	Results in ug / L
Benzene	1.98	1,2-Dichlorobenzene	ND< 2.00
Chlorobenzene	ND< 2.00	1,3-Dichlorobenzene	ND< 2.00
Ethylbenzene	ND< 2.00	1,4-Dichlorobenzene	ND< 2.00
Toluene	ND< 2.00		

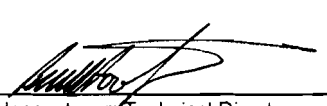
ELAP Number 10958

Method: EPA 601 / 602

Data File: 62847.D

Comments: ND denotes Non Detect
 ug / L = microgram per Liter

Signature:


 Bruce Hoogesteger, Technical Director

Volatile Analysis Report for Non-potable Water

Client: City of Rochester - DEQ

Client Job Site: RFA - Semi Annual
 Well Sampling
Client Job Number: DEQ-98045
Field Location: 11S
Field ID Number: N/A
Sample Type: Water

Lab Project Number: 02-3075
Lab Sample Number: 11431
Date Sampled: 11/13/2002
Date Received: 11/13/2002
Date Analyzed: 11/19/2002

Halocarbons	Results in ug / L	Halocarbons	Results in ug / L
Bromodichloromethane	ND< 2.00	trans-1,2-Dichloroethene	ND< 2.00
Bromomethane	ND< 2.00	1,2-Dichloropropane	ND< 2.00
Bromoform	ND< 2.00	cis-1,3-Dichloropropene	ND< 2.00
Carbon tetrachloride	ND< 2.00	trans-1,3-Dichloropropene	ND< 2.00
Chloroethane	ND< 2.00	Methylene chloride	ND< 5.00
Chloromethane	ND< 2.00	1,1,2,2-Tetrachloroethane	ND< 2.00
2-Chloroethyl vinyl ether	ND< 2.00	Tetrachloroethene	ND< 2.00
Chloroform	ND< 2.00	1,1,1-Trichloroethane	ND< 2.00
Dibromochloromethane	ND< 2.00	1,1,2-Trichloroethane	ND< 2.00
1,1-Dichloroethane	ND< 2.00	Trichloroethene	ND< 2.00
1,2-Dichloroethane	ND< 2.00	Trichlorofluoromethane	ND< 2.00
1,1-Dichloroethene	ND< 2.00	Vinyl Chloride	ND< 2.00

Aromatics	Results in ug / L	Aromatics	Results in ug / L
Benzene	ND< 0.700	1,2-Dichlorobenzene	ND< 2.00
Chlorobenzene	ND< 2.00	1,3-Dichlorobenzene	ND< 2.00
Ethylbenzene	ND< 2.00	1,4-Dichlorobenzene	ND< 2.00
Toluene	ND< 2.00		

ELAP Number 10958

Method: EPA 601 / 602

Data File: 62848.D

Comments: ND denotes Non Detect
 ug / L = microgram per Liter

Signature:


 Bruce Hoogesteger, Technical Director

Volatile Analysis Report for Non-potable Water

Client: City of Rochester - DEQ

Client Job Site: RFA - Semi Annual
 Well Sampling
Client Job Number: DEQ-98045
Field Location: 15S
Field ID Number: N/A
Sample Type: Water

Lab Project Number: 02-3075
Lab Sample Number: 11432
Date Sampled: 11/13/2002
Date Received: 11/13/2002
Date Analyzed: 11/20/2002

Halocarbons	Results in ug / L	Halocarbons	Results in ug / L
Bromodichloromethane	ND< 2.00	trans-1,2-Dichloroethene	ND< 2.00
Bromomethane	ND< 2.00	1,2-Dichloropropane	ND< 2.00
Bromoform	ND< 2.00	cis-1,3-Dichloropropene	ND< 2.00
Carbon tetrachloride	ND< 2.00	trans-1,3-Dichloropropene	ND< 2.00
Chloroethane	ND< 2.00	Methylene chloride	ND< 5.00
Chloromethane	ND< 2.00	1,1,2,2-Tetrachloroethane	ND< 2.00
2-Chloroethyl vinyl ether	ND< 2.00	Tetrachloroethene	ND< 2.00
Chloroform	ND< 2.00	1,1,1-Trichloroethane	ND< 2.00
Dibromochloromethane	ND< 2.00	1,1,2-Trichloroethane	ND< 2.00
1,1-Dichloroethane	ND< 2.00	Trichloroethene	ND< 2.00
1,2-Dichloroethane	ND< 2.00	Trichlorofluoromethane	ND< 2.00
1,1-Dichloroethene	ND< 2.00	Vinyl Chloride	13.9

Aromatics	Results in ug / L	Aromatics	Results in ug / L
Benzene	ND< 0.700	1,2-Dichlorobenzene	ND< 2.00
Chlorobenzene	ND< 2.00	1,3-Dichlorobenzene	ND< 2.00
Ethylbenzene	ND< 2.00	1,4-Dichlorobenzene	ND< 2.00
Toluene	ND< 2.00		

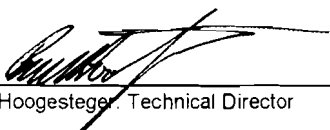
ELAP Number 10958

Method: EPA 601 / 602

Data File: 62849.D

Comments: ND denotes Non Detect
 ug / L = microgram per Liter

Signature:


 Bruce Hoogesteger, Technical Director

PARADIGM ENVIRONMENTAL SERVICES, INC.

179 Lake Avenue
Rochester, NY 14608
(585) 647-2530 • (800) 724-1997
FAX: (585) 647-3311

REPORT TO:

INVOICE TO:

COMPANY: City of Rochester - DCA		COMPANY:		LAB PROJECT #:	CLIENT PROJECT #:
ADDRESS: 307 Church St. Rm 300B		ADDRESS:		02-3075	
CITY: Rochester	STATE: NY	CITY:	STATE:	TURNAROUND TIME: (WORKING DAYS)	
ZIP: 14614		ZIP:			
PHONE: 428-7892	FAX: 428-6010	PHONE:	FAX:		
ATTN: Jane Forbes		ATTN:		☐ 1 ☐ 2 ☐ 3 ☒ 5 ☐ OTHER	

COMMENTS:

PROJECT NAME/SITE NAME:
KFA-Semi Annual
Well Sampling

RED-98045

REQUESTED ANALYSIS

DATE	TIME	COMPOSITE	GRAB	SAMPLE LOCATION/FIELD ID	MATRIX	CONCENTRATIONS	601/602													REMARKS	PARADIGM LAB SAMPLE NUMBER
1 11/13/02			X	6I	H ₂ O	2	✓														11419
2			X	6S		2	✓														11420
3			X	7I		2	✓														11421
4			X	7D		2	✓														11422
5			X	7S		2	✓														11423
6			X	8I		2	✓														11424
7			X	8S		2	✓														11425
8			X	9S		2	✓														11426
9			X	9D		2	✓														11427
10			X	10I		2	✓														11428

LAB USE ONLY

SAMPLE CONDITION: Check box if acceptable or note deviation:

CONTAINER TYPE: ☐

PRESERVATIONS: ☐

HOLDING TIME: ☐

TEMPERATURE: ☐

Sampled By: Jane M. Forbes Date/Time: 11/13/02 14:15
 Relinquished By: [Signature] Date/Time: 11/13/02 14:15
 Received By: [Signature] Date/Time: 11/13/02 14:15

Relinquished By: _____ Date/Time: _____
 Received By: _____ Date/Time: _____
 Received @ Lab By: [Signature] Date/Time: 11/13/02 16:15

Total Cost: _____
 P.I.F. _____

PARADIGM ENVIRONMENTAL SERVICES, INC.

179 Lake Avenue
Rochester, NY 14608
(585) 647-2530 * (800) 724-1997
FAX: (585) 647-3311

CHARTER OF CUSTODY

REPORT TO:

INVOICE TO:

COMPANY: City of Rochester DEA		COMPANY:		LAB PROJECT #:	CLIENT PROJECT #:
ADDRESS: 30 Church St. Rm 300B		ADDRESS:		02-3075	
CITY: Rochester	STATE: NY	CITY:	STATE:	ZIP:	
PHONE: 428-7892	FAX: 428-6010	PHONE:	FAX:		
ATTN: Jane Matherbe		ATTN:		TURNAROUND TIME: (WORKING DAYS)	
COMMENTS:				☐ 1 ☐ 2 ☐ 3 ☒ 5 ☐ OTHER	

PROJECT NAME/SITE NAME:

DEQ-98045
Annual Well Sampling
DEQ-98045

REQUESTED ANALYSIS

DATE	TIME	C O M P O S I T E	G R A B	SAMPLE LOCATION/FIELD ID	M A T R I X	C O N T A I N E R S													REMARKS	PARADIGM LAB SAMPLE NUMBER				
1 11/13/02			X	10S	H ₂ O	2	X													1	1	4	1	0
2			X	11I	↓	↓	X													1	1	4	2	0
3			X	11S	↓	↓	X													1	1	4	3	1
4			X	15S	↓	↓	X													1	1	4	3	2
5																								
6																								
7																								
8																								
9																								
10																								

LAB USE ONLY

SAMPLE CONDITION: Check box if acceptable or note deviation:	CONTAINER TYPE: ☐	PRESERVATIONS: ☐	HOLDING TIME: ☐	TEMPERATURE: ☐
--	--	---	--	---------------------------------------

Sampled By: Jane Matherbe	Date/Time: 11/13/02 1415	Relinquished By:	Date/Time:	Total Cost:
Relinquished By:	Date/Time: 11/13/02 1415	Received By:	Date/Time:	
Received By:	Date/Time: 11/13/02 1415	Received @ Lab By:	Date/Time: 11/13/02 1415	P.I.F.



PARADIGM

ENVIRONMENTAL SERVICES, INC.

179 Lake Avenue Rochester, New York 14608 (585) 647-2530 FAX (585) 647-3311

LABORATORY REPORT OF ANALYSIS

Client: City of Rochester **Lab Project No.:** 03-0178

Client Job Site: RFA Quarterly Sampling **Sample Type:** Water

Client Job No.: DEQ-98045 **Analytical Method:** EPA 365.2

Date Sampled: 01/08/2003

Date Received: 01/09/2003

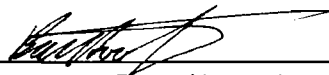
Date Analyzed: 01/10/2003

Lab Sample ID.	Sample Location/Field ID	Total Phosphorus (mg/l)
1257	Effluent	3.5

ELAP ID No. 10709

Comments: ND denotes non-detected.

Approved By Technical Director: _____


Bruce Hoogesteger



Client: City of Rochester - DEQ

Lab Project No. 03-0178

Lab Sample No 1257

Client Job Site: Rochester Fire Academy
Quarterly Sampling

Sample Type: Water

Client Job No.: DEQ - 98045

Date Sampled: 1/8/03

Field Location: Effluent

Date Received: 1/9/03

Field ID No.: N/A

Laboratory Report for Metals Analysis

Parameter	Date Analyzed	Analytical Method	Result (mg/L)
Arsenic	01/10/03	EPA 200.7	0.009
Cadmium	01/10/03	EPA 200.7	<0.005
Chromium	01/10/03	EPA 200.7	<0.010
Copper	01/10/03	EPA 200.7	<0.010
Iron	01/10/03	EPA 200.7	1.13
Lead	01/10/03	EPA 200.7	<0.005
Manganese	01/10/03	EPA 200.7	0.462
Nickel	01/10/03	EPA 200.7	<0.040
Selenium	01/10/03	EPA 200.7	<0.005
Zinc	01/10/03	EPA 200.7	<0.020

ELAP ID No.:10958

Comments:

Approved By: _____

Bruce Hoogesteger, Technical Director

PCB Analysis Report for Non-potable Water

Client: City of Rochester - DEQ

Client Job Site:	RFA - Monthly Sampling	Lab Project Number:	03-0178
Client Job Number:	DEQ-98045	Lab Sample Number:	1257
Field Location:	Effluent	Date Sampled:	01/08/2003
Field ID Number:	N/A	Date Received:	01/09/2003
Sample Type:	Water	Date Analyzed:	01/13/2003

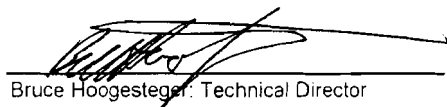
PCB Identification	Results in ug / L
Aroclor 1016	ND< 1.00
Aroclor 1221	ND< 1.00
Aroclor 1232	ND< 1.00
Aroclor 1242	ND< 1.00
Aroclor 1248	ND< 1.00
Aroclor 1254	ND< 1.00
Aroclor 1260	ND< 1.00

ELAP Number 10958

Method: EPA 608

Comments: ND denotes Non Detect
ug / L = microgram per Liter

Signature: _____


Bruce Hoogesteger, Technical Director

Semi -Volatile Analysis Report for Non-potable Water

Client: City of Rochester - DEQ

Client Job Site:	RFA - Monthly Sampling	Lab Project Number:	03-0178
Client Job Number:	DEQ-98045	Lab Sample Number:	1257
Field Location:	Effluent	Date Sampled:	01/08/2003
Field ID Number:	N/A	Date Received:	01/09/2003
Sample Type:	Water	Date Analyzed:	01/10/2003

Base / Neutrals	Results in ug / L	Base / Neutrals	Results in ug / L
Acenaphthene	ND< 10.0	Dibenz (a,h) anthracene	ND< 10.0
Anthracene	ND< 10.0	Fluoranthene	ND< 10.0
Benzo (a) anthracene	ND< 10.0	Fluorene	ND< 10.0
Benzo (a) pyrene	ND< 10.0	Indeno (1,2,3-cd) pyrene	ND< 10.0
Benzo (b) fluoranthene	ND< 10.0	Naphthalene	ND< 10.0
Benzo (g,h,i) perylene	ND< 10.0	Phenanthrene	ND< 10.0
Benzo (k) fluoranthene	ND< 10.0	Pyrene	ND< 10.0
Chrysene	ND< 10.0	Acenaphthylene	ND< 10.0
Diethyl phthalate	ND< 10.0	1,2-Dichlorobenzene	ND< 10.0
Dimethyl phthalate	ND< 25.0	1,3-Dichlorobenzene	ND< 10.0
Butylbenzylphthalate	ND< 10.0	1,4-Dichlorobenzene	ND< 10.0
Di-n-butyl phthalate	ND< 10.0	1,2,4-Trichlorobenzene	ND< 10.0
Di-n-octylphthalate	ND< 10.0	Nitrobenzene	ND< 10.0
Bis (2-ethylhexyl) phthalate	ND< 10.0	2,4-Dinitrotoluene	ND< 10.0
2-Chloronaphthalene	ND< 10.0	2,6-Dinitrotoluene	ND< 10.0
Hexachlorobenzene	ND< 10.0	Bis (2-chloroethyl) ether	ND< 10.0
Hexachloroethane	ND< 10.0	Bis (2-chloroisopropyl) ether	ND< 10.0
Hexachlorocyclopentadiene	ND< 10.0	Bis (2-chloroethoxy) methane	ND< 10.0
Hexachlorobutadiene	ND< 10.0	4-Bromophenyl phenyl ether	ND< 10.0
N-Nitroso-di-n-propylamine	ND< 10.0	4-Chlorophenyl phenyl ether	ND< 10.0
N-Nitrosodiphenylamine	ND< 10.0	Benzidine	ND< 25.0
N-Nitrosodimethylamine	ND< 10.0	3,3'-Dichlorobenzidine	ND< 10.0
Isophorone	ND< 10.0		

Acids	Results in ug / L	Acids	Results in ug / L
Phenol	ND< 10.0	2,4-Dimethylphenol	ND< 10.0
2-Chlorophenol	ND< 10.0	2-Nitrophenol	ND< 10.0
2,4-Dichlorophenol	ND< 10.0	4-Nitrophenol	ND< 25.0
2,4,6-Trichlorophenol	ND< 10.0	2,4-Dinitrophenol	ND< 10.0
Pentachlorophenol	ND< 25.0	4,6-Dinitro-2-methylphenol	ND< 25.0
4-Chloro-3-methylphenol	ND< 10.0		

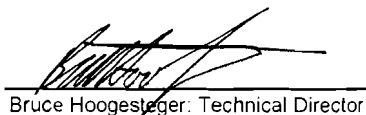
ELAP Number 10958

Method: EPA 625

Data File: 9971.D

Comments: ND denotes Non Detect
 ug / L = microgram per Liter

Signature:



 Bruce Hoogesteger: Technical Director

Pesticide Analysis Report for Non-potable Water

Client: City of Rochester - DEQ

Client Job Site:	RFA - Monthly Sampling	Lab Project Number:	03-0178
Client Job Number:	DEQ-98045	Lab Sample Number:	1257
Field Location:	Effluent	Date Sampled:	01/08/2003
Field ID Number:	N/A	Date Received:	01/09/2003
Sample Type:	Water	Date Analyzed:	01/14/2003

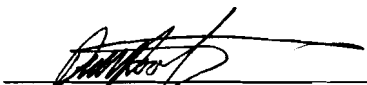
Pesticide Identification	Results in ug / L
Aldrin	ND< 0.100
alpha-BHC	ND< 0.100
beta-BHC	ND< 0.100
delta-BHC	ND< 0.100
gamma-BHC	ND< 0.100
alpha-Chlordane	ND< 0.100
gamma-Chlordane	ND< 0.100
4,4'-DDD	ND< 0.100
4,4'-DDE	ND< 0.200
4,4'-DDT	ND< 0.100
Dieldrin	ND< 0.100
Endosulfan I	ND< 0.100
Endosulfan II	ND< 0.100
Endosulfan Sulfate	ND< 0.100
Endrin	ND< 0.100
Endrin Aldehyde	ND< 0.100
Heptachlor	ND< 0.100
Heptachlor Epoxide	ND< 0.100
Methoxychlor	ND< 0.100
Toxaphene	ND< 5.00

ELAP Number 10958

Method: EPA 608

Comments: ND denotes Non Detect
ug / L = microgram per Liter

Signature:


Bruce Hoogesteger: Technical Director

Volatile Analysis Report for Non-potable Water

Client: City of Rochester - DEQ

Client Job Site: RFA - Monthly Sampling

Lab Project Number: 03-0178

Client Job Number: DEQ-98045

Lab Sample Number: 1257

Field Location: Effluent

Date Sampled: 01/08/2003

Field ID Number: N/A

Date Received: 01/09/2003

Sample Type: Water

Date Analyzed: 01/14/2003

Halocarbons	Results in ug / L	Halocarbons	Results in ug / L
Bromodichloromethane	ND< 2.00	trans-1,2-Dichloroethene	ND< 2.00
Bromomethane	ND< 2.00	1,2-Dichloropropane	ND< 2.00
Bromoform	ND< 2.00	cis-1,3-Dichloropropene	ND< 2.00
Carbon tetrachloride	ND< 2.00	trans-1,3-Dichloropropene	ND< 2.00
Chloroethane	ND< 2.00	Methylene chloride	ND< 5.00
Chloromethane	ND< 2.00	1,1,2,2-Tetrachloroethane	ND< 2.00
2-Chloroethyl vinyl ether	ND< 2.00	Tetrachloroethene	ND< 2.00
Chloroform	ND< 2.00	1,1,1-Trichloroethane	25.9
Dibromochloromethane	ND< 2.00	1,1,2-Trichloroethane	ND< 2.00
1,1-Dichloroethane	7.33	Trichloroethene	2.28
1,2-Dichloroethane	3.40	Trichlorofluoromethane	ND< 2.00
1,1-Dichloroethene	ND< 2.00	Vinyl Chloride	ND< 2.00

Aromatics	Results in ug / L	Aromatics	Results in ug / L
Benzene	ND< 0.700	1,2-Dichlorobenzene	ND< 2.00
Chlorobenzene	ND< 2.00	1,3-Dichlorobenzene	ND< 2.00
Ethylbenzene	ND< 2.00	1,4-Dichlorobenzene	ND< 2.00
Toluene	ND< 2.00		

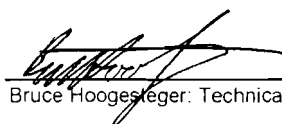
ELAP Number 10958

Method: EPA 601 / 602

Data File: 63529.D

Comments: ND denotes Non Detect
ug / L = microgram per Liter

Signature: _____


Bruce Hoogesteger, Technical Director

Volatile Analysis Report for Non-potable Water

Client: **City of Rochester - DEQ**

Client Job Site:	RFA - Monthly Sampling	Lab Project Number:	03-0178
Client Job Number:	DEQ-98045	Lab Sample Number:	1257
Field Location:	Effluent	Date Sampled:	01/08/2003
Field ID Number:	N/A	Date Received:	01/09/2003
Sample Type:	Water	Date Analyzed:	01/14/2003

Halocarbons	Results in ug / L
2-Chloroethyl vinyl ether	ND< 2.00

Ketones	Results in ug / L
Acetone	49.1
2-Butanone	29.6
2-Hexanone	ND< 5.00
4-Methyl-2-pentanone	ND< 5.00

ELAP Number 10958

Method: EPA 8015 Modified

Aromatics	Results in ug / L
m,p - Xylene	ND< 2.00
o - Xylene	ND< 2.00
Styrene	ND< 2.00

Miscellaneous	Results in ug / L
Carbon disulfide	ND< 5.00
Vinyl acetate	ND< 5.00

Data File: 63529.D

Comments: ND denotes Non Detect
ug / L = microgram per Liter

Signature: _____


Bruce Hoogesteger, Technical Director

PAR IGM ENVIRONMENTAL SERVICES, INC.

179 Lake Avenue
Rochester, NY 14608
(585) 647-2530 * (800) 724-1997
FAX: (585) 647-3311

CH OF CUSTODY

REPORT TO:

INVOICE TO:

COMPANY: City of Rochester - DEQ		COMPANY:		LAB PROJECT #:	CLIENT PROJECT #:
ADDRESS: 30 Church St Rm 300B		ADDRESS:		03-0718	
CITY: Rochester	STATE: NY	CITY:	STATE:	TURNAROUND TIME: (WORKING DAYS)	
ZIP: 14614		ZIP:			
PHONE: 428-7892	FAX: 428-6010	PHONE:	FAX:		
ATTN: Lane Forbes		ATTN:		☐ 1 ☐ 2 ☐ 3 ☒ 5 ☐ OTHER	

PROJECT NAME/SITE NAME:

RFA - monthly sampling
DEQ-98045

COMMENTS:

REQUESTED ANALYSIS

As, Fe, Cd, Cu, Ca, Pb, Mn, Ni, Se, Zn

DATE	TIME	COMPOSITE	GRAB	SAMPLE LOCATION/FIELD ID	MATRIX	CONUTABINERS	601/002	3015	625	Pesticides	Phosphorus	Metals	pH	REMARKS	PARADIGM LAB SAMPLE NUMBER
1/8/03	1330		x	Effluent	H ₂ O		x	x	x	x	x	x	x		1257
2															
3															
4															
5															
6															
7															
8															
9															
10															

LAB USE ONLY

SAMPLE CONDITION: Check box if acceptable or note deviation:	CONTAINER TYPE: ☒	PRESERVATIONS: ☐	HOLDING TIME: ☒	TEMPERATURE: ☐ 19°C
--	---	---	---	--

Sampled By: Lane M.H. Forbes	Date/Time: 1/8/03 1330	Relinquished By:	Date/Time:	Total Cost:
Relinquished By: [Signature]	Date/Time: 1/8/03 1113	Received By:	Date/Time:	
Received By: [Signature]	Date/Time: 1/9/03 1115	Received @ Lab By: [Signature]	Date/Time: 1/9/03 1205	P.I.F.

Volatile Analysis Report for Non-potable Water

Client: City of Rochester

Client Job Site:	RFA - Quarterly Sampling	Lab Project Number:	03-0505
Client Job Number:	N/A	Lab Sample Number:	2304
Field Location:	RFA Influent	Date Sampled:	02/13/2003
Field ID Number:	N/A	Date Received:	02/13/2003
Sample Type:	Water	Date Analyzed:	02/18/2003

Halocarbons	Results in ug / L	Halocarbons	Results in ug / L
Bromodichloromethane	ND< 200	trans-1,2-Dichloroethene	ND< 200
Bromomethane	ND< 200	1,2-Dichloropropane	ND< 200
Bromoform	ND< 200	cis-1,3-Dichloropropene	ND< 200
Carbon tetrachloride	ND< 200	trans-1,3-Dichloropropene	ND< 200
Chloroethane	ND< 200	Methylene chloride	ND< 500
Chloromethane	ND< 200	1,1,2,2-Tetrachloroethane	ND< 200
2-Chloroethyl vinyl ether	ND< 200	Tetrachloroethene	ND< 200
Chloroform	ND< 200	1,1,1-Trichloroethane	23,300
Dibromochloromethane	ND< 200	1,1,2-Trichloroethane	ND< 200
1,1-Dichloroethane	4,890	Trichloroethene	533
1,2-Dichloroethane	340	Trichlorofluoromethane	ND< 200
1,1-Dichloroethene	1,010	Vinyl Chloride	1,630

Aromatics	Results in ug / L	Aromatics	Results in ug / L
Benzene	ND< 70.0	1,2-Dichlorobenzene	ND< 200
Chlorobenzene	ND< 200	1,3-Dichlorobenzene	ND< 200
Ethylbenzene	ND< 200	1,4-Dichlorobenzene	ND< 200
Toluene	1,610		

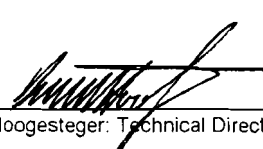
ELAP Number 10958

Method: EPA 601 / 602

Data File: 63981.D

Comments: ND denotes Non Detect
 ug / L = microgram per Liter

Signature:


 Bruce Hoogesteger, Technical Director

PCB Analysis Report for Non-potable Water

Client: City of Rochester

Client Job Site:	RFA - Quarterly Sampling	Lab Project Number:	03-0505
Client Job Number:	N/A	Lab Sample Number:	2304
Field Location:	RFA Influent	Date Sampled:	02/13/2003
Field ID Number:	N/A	Date Received:	02/13/2003
Sample Type:	Water	Date Analyzed:	02/17/2003

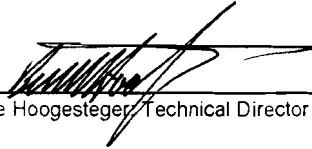
PCB Identification	Results in ug / L
Aroclor 1016	ND< 1.00
Aroclor 1221	ND< 1.00
Aroclor 1232	ND< 1.00
Aroclor 1242	ND< 1.00
Aroclor 1248	ND< 1.00
Aroclor 1254	ND< 1.00
Aroclor 1260	ND< 1.00

ELAP Number 10958

Method: EPA 608

Comments: ND denotes Non Detect
ug / L = microgram per Liter

Signature: _____


Bruce Hoogesteger, Technical Director

Pesticide Analysis Report for Non-potable Water

Client: City of Rochester

Client Job Site:	RFA - Quarterly Sampling	Lab Project Number:	03-0505
Client Job Number:	N/A	Lab Sample Number:	2304
Field Location:	RFA Influent	Date Sampled:	02/13/2003
Field ID Number:	N/A	Date Received:	02/13/2003
Sample Type:	Water	Date Analyzed:	02/20/2003

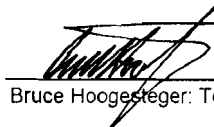
Pesticide Identification	Results in ug / L
Aldrin	ND< 0.100
alpha-BHC	ND< 0.100
beta-BHC	ND< 0.200
delta-BHC	ND< 0.100
gamma-BHC	ND< 0.100
alpha-Chlordane	ND< 0.100
gamma-Chlordane	ND< 0.100
4,4'-DDD	ND< 0.100
4,4'-DDE	ND< 0.200
4,4'-DDT	ND< 0.250
Dieldrin	ND< 0.150
Endosulfan I	ND< 0.100
Endosulfan II	ND< 0.100
Endosulfan Sulfate	ND< 0.100
Endrin	ND< 0.100
Endrin Aldehyde	ND< 0.100
Heptachlor	ND< 0.100
Heptachlor Epoxide	ND< 0.100
Methoxychlor	ND< 0.450
Toxaphene	ND< 5.00

ELAP Number 10958

Method: EPA 608

Comments: ND denotes Non Detect
ug / L = microgram per Liter

Signature: _____


Bruce Hoogesteger: Technical Director

Client: **City of Rochester - DEQ**

Lab Project No. 03-0505

Lab Sample No 2304

Client Job Site: Rochester Fire Academy
Quarterly Sampling

Sample Type: Water

Client Job No.: DEQ - 98045

Date Sampled: 2/13/03

Field Location: Influent

Date Received: 2/13/03

Field ID No.: N/A

Laboratory Report for Metals Analysis

Parameter	Date Analyzed	Analytical Method	Result (mg/L)
Arsenic	02/18/03	EPA 200.7	0.014
Cadmium	02/18/03	EPA 200.7	<0.005
Chromium	02/18/03	EPA 200.7	<0.010
Copper	02/18/03	EPA 200.7	<0.010
Iron	02/18/03	EPA 200.7	1.85
Lead	02/18/03	EPA 200.7	<0.005
Manganese	02/18/03	EPA 200.7	0.527
Nickel	02/18/03	EPA 200.7	<0.040
Selenium	02/18/03	EPA 200.7	<0.005
Zinc	02/18/03	EPA 200.7	0.030

ELAP ID No.:10958

Comments:

Approved By: _____

Bruce Hoogester, Technical Director



LABORATORY REPORT OF ANALYSIS

Client: City of Rochester

Lab Project No.: 03-0505

Client Job Site: RFA Quarterly Sampling

Sample Type: Water

Client Job No.: DEQ-98045

Analytical Method: EPA 310.1

Date Sampled: 02/13/2003

Date Received: 02/13/2003

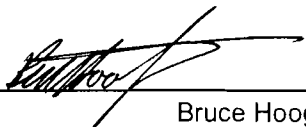
Date Analyzed: 02/20/2003

Lab Sample ID	Sample Location/Field ID	Alkalinity, as CaCO ₃ (mg/l)
2304	RFA Influent	430

ELAP ID No.: 10709

Comments: ND denotes non-detected.

Approved By Technical Director: _____


Bruce Hoogesteger

Client: City of Rochester - DEQ

Lab Project No.: 03-0505

 Client Job Site: Rochester Fire Academy
 Quarterly Sampling

Sample Type: Water

Client Job No.: DEQ - 98045

Method: EPA 200.7

Date Sampled: 2/13/03

Date Received: 2/13/03

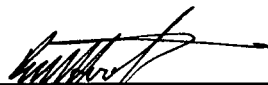
Laboratory Report for Hardness Analysis

Lab Sample No.:	Field ID	Field Location	Total Hardness (mg/L)
2304	N/A	Influent	490

ELAP ID No.:10958

Comments:

Approved By:



Bruce Hoogesteger, Technical Director

Volatile Analysis Report for Non-potable Water

Client: City of Rochester

Client Job Site:	RFA - Quarterly Sampling	Lab Project Number:	03-0505
Client Job Number:	N/A	Lab Sample Number:	2305
Field Location:	RFA Effluent	Date Sampled:	02/13/2003
Field ID Number:	N/A	Date Received:	02/13/2003
Sample Type:	Water	Date Analyzed:	02/18/2003

Halocarbons	Results in ug / L	Halocarbons	Results in ug / L
Bromodichloromethane	ND< 2.00	trans-1,2-Dichloroethene	ND< 2.00
Bromomethane	ND< 2.00	1,2-Dichloropropane	ND< 2.00
Bromoform	ND< 2.00	cis-1,3-Dichloropropene	ND< 2.00
Carbon tetrachloride	ND< 2.00	trans-1,3-Dichloropropene	ND< 2.00
Chloroethane	ND< 2.00	Methylene chloride	ND< 5.00
Chloromethane	ND< 2.00	1,1,2,2-Tetrachloroethane	ND< 2.00
2-Chloroethyl vinyl ether	ND< 2.00	Tetrachloroethene	ND< 2.00
Chloroform	ND< 2.00	1,1,1-Trichloroethane	6.97
Dibromochloromethane	ND< 2.00	1,1,2-Trichloroethane	ND< 2.00
1,1-Dichloroethane	2.80	Trichloroethene	ND< 2.00
1,2-Dichloroethane	ND< 2.00	Trichlorofluoromethane	ND< 2.00
1,1-Dichloroethene	ND< 2.00	Vinyl Chloride	ND< 2.00

Aromatics	Results in ug / L	Aromatics	Results in ug / L
Benzene	ND< 0.700	1,2-Dichlorobenzene	ND< 2.00
Chlorobenzene	ND< 2.00	1,3-Dichlorobenzene	ND< 2.00
Ethylbenzene	ND< 2.00	1,4-Dichlorobenzene	ND< 2.00
Toluene	ND< 2.00		

ELAP Number 10958

Method: EPA 601 / 602

Data File: 63982.D

Comments: ND denotes Non Detect
ug / L = microgram per Liter

Signature:


Bruce Hoogesteger: Technical Director

Volatile Analysis Report for Non-potable Water

Client: **City of Rochester**

Client Job Site:	RFA - Quarterly Sampling	Lab Project Number:	03-0505
Client Job Number:	N/A	Lab Sample Number:	2305
Field Location:	RFA Effluent	Date Sampled:	02/13/2003
Field ID Number:	N/A	Date Received:	02/13/2002
Sample Type:	Water	Date Analyzed:	02/18/2003

Halocarbons	Results in ug / L
2-Chloroethyl vinyl ether	ND< 2.00

Ketones	Results in ug / L
Acetone	ND< 10.0
2-Butanone	ND< 5.00
2-Hexanone	ND< 5.00
4-Methyl-2-pentanone	ND< 5.00

ELAP Number 10958

Method: EPA 8015 Modified

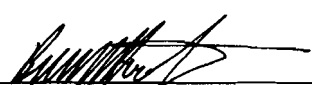
Aromatics	Results in ug / L
m,p - Xylene	ND< 2.00
o - Xylene	ND< 2.00
Styrene	ND< 2.00

Miscellaneous	Results in ug / L
Carbon disulfide	ND< 5.00
Vinyl acetate	ND< 5.00

Data File: 63982.D

Comments: ND denotes Non Detect
ug / L = microgram per Liter

Signature:


Bruce Hoogesteger, Technical Director

Semi -Volatile Analysis Report for Non-potable Water

 Client: **City of Rochester**

Client Job Site:	RFA - Quarterly Sampling	Lab Project Number: 03-0505
		Lab Sample Number: 2305
Client Job Number:	N/A	
Field Location:	RFA Effluent	Date Sampled: 02/13/2003
Field ID Number:	N/A	Date Received: 02/13/2003
Sample Type:	Water	Date Analyzed: 02/18/2003

Base / Neutrals	Results in ug / L	Base / Neutrals	Results in ug / L
Acenaphthene	ND< 10.0	Dibenz (a,h) anthracene	ND< 10.0
Anthracene	ND< 10.0	Fluoranthene	ND< 10.0
Benzo (a) anthracene	ND< 10.0	Fluorene	ND< 10.0
Benzo (a) pyrene	ND< 10.0	Indeno (1,2,3-cd) pyrene	ND< 10.0
Benzo (b) fluoranthene	ND< 10.0	Naphthalene	ND< 10.0
Benzo (g,h,i) perylene	ND< 10.0	Phenanthrene	ND< 10.0
Benzo (k) fluoranthene	ND< 10.0	Pyrene	ND< 10.0
Chrysene	ND< 10.0	Acenaphthylene	ND< 10.0
Diethyl phthalate	ND< 10.0	1,2-Dichlorobenzene	ND< 10.0
Dimethyl phthalate	ND< 25.0	1,3-Dichlorobenzene	ND< 10.0
Butylbenzylphthalate	ND< 10.0	1,4-Dichlorobenzene	ND< 10.0
Di-n-butyl phthalate	ND< 10.0	1,2,4-Trichlorobenzene	ND< 10.0
Di-n-octylphthalate	ND< 10.0	Nitrobenzene	ND< 10.0
Bis (2-ethylhexyl) phthalate	ND< 10.0	2,4-Dinitrotoluene	ND< 10.0
2-Chloronaphthalene	ND< 10.0	2,6-Dinitrotoluene	ND< 10.0
Hexachlorobenzene	ND< 10.0	Bis (2-chloroethyl) ether	ND< 10.0
Hexachloroethane	ND< 10.0	Bis (2-chloroisopropyl) ether	ND< 10.0
Hexachlorocyclopentadiene	ND< 10.0	Bis (2-chloroethoxy) methane	ND< 10.0
Hexachlorobutadiene	ND< 10.0	4-Bromophenyl phenyl ether	ND< 10.0
N-Nitroso-di-n-propylamine	ND< 10.0	4-Chlorophenyl phenyl ether	ND< 10.0
N-Nitrosodiphenylamine	ND< 10.0	Benzidine	ND< 25.0
N-Nitrosodimethylamine	ND< 10.0	3,3'-Dichlorobenzidine	ND< 10.0
Isophorone	ND< 10.0		

Acids	Results in ug / L	Acids	Results in ug / L
Phenol	ND< 10.0	2,4-Dimethylphenol	ND< 10.0
2-Chlorophenol	ND< 10.0	2-Nitrophenol	ND< 10.0
2,4-Dichlorophenol	ND< 10.0	4-Nitrophenol	ND< 25.0
2,4,6-Trichlorophenol	ND< 10.0	2,4-Dinitrophenol	ND< 10.0
Pentachlorophenol	ND< 25.0	4,6-Dinitro-2-methylphenol	ND< 25.0
4-Chloro-3-methylphenol	ND< 10.0		

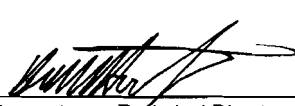
ELAP Number 10958

Method: EPA 625

Data File: 10268.D

Comments: ND denotes Non Detect
 ug / L = microgram per Liter

Signature:


 Bruce Hoogesteger: Technical Director



Client: City of Rochester - DEQ

Lab Project No. 03-0505

Lab Sample No 2305

Client Job Site: Rochester Fire Academy
Quarterly Sampling

Sample Type: Water

Client Job No.: DEQ - 98045

Date Sampled: 2/13/03

Field Location: Effluent

Date Received: 2/13/03

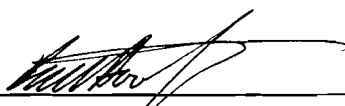
Field ID No.: N/A

Laboratory Report for Metals Analysis

Parameter	Date Analyzed	Analytical Method	Result (mg/L)
Arsenic	02/18/03	EPA 200.7	0.015
Cadmium	02/18/03	EPA 200.7	<0.005
Chromium	02/18/03	EPA 200.7	<0.010
Copper	02/18/03	EPA 200.7	<0.010
Iron	02/18/03	EPA 200.7	2.00
Lead	02/18/03	EPA 200.7	<0.005
Manganese	02/18/03	EPA 200.7	0.433
Nickel	02/18/03	EPA 200.7	<0.040
Selenium	02/18/03	EPA 200.7	<0.005
Zinc	02/18/03	EPA 200.7	<0.020

ELAP ID No.:10958

Comments:

Approved By: 
Bruce Hoogesteger, Technical Director

PCB Analysis Report for Non-potable Water

Client: City of Rochester

Client Job Site:	RFA - Quarterly Sampling	Lab Project Number:	03-0505
		Lab Sample Number:	2305
Client Job Number:	N/A		
Field Location:	RFA Effluent	Date Sampled:	02/13/2003
Field ID Number:	N/A	Date Received:	02/13/2003
Sample Type:	Water	Date Analyzed:	02/17/2003

PCB Identification	Results in ug / L
Aroclor 1016	ND< 1.00
Aroclor 1221	ND< 1.00
Aroclor 1232	ND< 1.00
Aroclor 1242	ND< 1.00
Aroclor 1248	ND< 1.00
Aroclor 1254	ND< 1.00
Aroclor 1260	ND< 1.00

ELAP Number 10958

Method: EPA 608

Comments: ND denotes Non Detect
ug / L = microgram per Liter

Signature: _____


Bruce Hoogesteger, Technical Director

Pesticide Analysis Report for Non-potable Water**Client:** City of Rochester

Client Job Site:	RFA - Quarterly Sampling	Lab Project Number:	03-0505
		Lab Sample Number:	2305
Client Job Number:	N/A		
Field Location:	RFA Effluent	Date Sampled:	02/13/2003
Field ID Number:	N/A	Date Received:	02/13/2003
Sample Type:	Water	Date Analyzed:	02/20/2003

Pesticide Identification	Results in ug / L
Aldrin	ND< 0.100
alpha-BHC	ND< 0.100
beta-BHC	ND< 0.200
delta-BHC	ND< 0.100
gamma-BHC	ND< 0.100
alpha-Chlordane	ND< 0.100
gamma-Chlordane	ND< 0.100
4,4'-DDD	ND< 0.100
4,4'-DDE	ND< 0.200
4,4'-DDT	ND< 0.250
Dieldrin	ND< 0.150
Endosulfan I	ND< 0.100
Endosulfan II	ND< 0.100
Endosulfan Sulfate	ND< 0.100
Endrin	ND< 0.100
Endrin Aldehyde	ND< 0.100
Heptachlor	ND< 0.100
Heptachlor Epoxide	ND< 0.100
Methoxychlor	ND< 0.450
Toxaphene	ND< 5.00

ELAP Number 10958

Method: EPA 608

Comments: ND denotes Non Detect
ug / L = microgram per Liter

Signature: _____

Bruce Hoogesteger, Technical Director



PARADIGM

ENVIRONMENTAL SERVICES, INC.

179 Lake Avenue Rochester, New York 14608 (585) 647-2530 FAX (585) 647-3311

LABORATORY REPORT OF ANALYSIS

Client: City of Rochester

Lab Project No.: 03-0505

Client Job Site: RFA Quarterly Sampling

Client Job No.: DEQ-98045

Sample Type: Water

Analytical Method: EPA 365.2

Date Sampled: 02/13/2003

Date Received: 02/13/2003

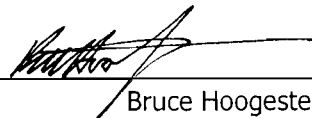
Date Analyzed: 02/18/2003

Lab Sample ID.	Sample Location/Field ID	Total Phosphorus (mg/l)
2305	RFA Effluent	1.4

ELAP ID No. 10709

Comments: ND denotes non-detected.

Approved By Technical Director:



Bruce Hoogesteger



PARADIGM

ENVIRONMENTAL SERVICES, INC.

179 Lake Avenue, Rochester, NY 14608 (585) 647-2530 FAX (585) 647-3311

Client: City of Rochester - DEQ

Lab Project No.: 03-0505

Client Job Site: Rochester Fire Academy
Quarterly Sampling

Sample Type: Water
Method: EPA 9040

Client Job No.: DEQ - 98045

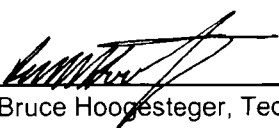
Date(s) Sampled: 2/13/03
Date Received: 2/13/03
Date Analyzed: 2/13/03

Laboratory Report for pH Analysis

Lab Sample No.	Field ID No.	Field Location	pH Results (S.U.)
2304	N/A	Influent	6.97
2305	N/A	Effluent	8.03

ELAP ID No.: 10958

Comments:

Approved By: 
Bruce Hoogesteger, Technical Director

PARA IGM ENVIRONMENTAL SERVICES, INC.

179 Lake Avenue
Rochester, NY 14608
(585) 647-2530 * (800) 724-1997
FAX: (585) 647-3311

CH OF CUSTODY

REPORT TO:

INVOICE TO:

COMPANY: City of Rochester		COMPANY:		LAB PROJECT #:	CLIENT PROJECT #:
ADDRESS: 30 Church St. Rm 300B		ADDRESS:		03-0505	
CITY: Rochester	STATE: NY	CITY:	STATE:	TURNAROUND TIME: (WORKING DAYS)	
ZIP: 14614		ZIP:			
PHONE: 428-7892	FAX: 428-6010	PHONE:	FAX:		
ATTN: Jane Forbels	ATTN:			☐ 1 ☐ 2 ☐ 3 ☒ 5 ☐ OTHER	
COMMENTS: (RFA) DLQ-78045		REQUESTED ANALYSIS: As Fed. & NYS Regs. for Pb, Mn, Ni, Cu, Zn			

PROJECT NAME/SITE NAME:
RFA-Quarterly
Sampling

DATE	TIME	COMPOSITE	GRAB	SAMPLE LOCATION/FIELD ID	MATRIX	CONTAINERS	bol/602	8015	metals	Hardness	pH	alkalinity	Resh/Pl/Bs	625	Phosphorus	REMARKS	PARADIGM LAB SAMPLE NUMBER				
1 2/13/03			x	RFA Influent	H ₂ O	6	X	X	X	X	X	X	X					2	3	0	4
2 2/13/03			x	RFA Effluent	H ₂ O	9	X	X	X		X		X	X	X			2	3	0	5
3																					
4																					
5																					
6																					
7																					
8																					
9																					
10																					

LAB USE ONLY

SAMPLE CONDITION: Check box if acceptable or note deviation:	CONTAINER TYPE: ☒	PRESERVATIONS: ☒	HOLDING TIME: ☒	TEMPERATURE: 13°C
--	---	--	---	-------------------

Sampled By: <u>Jammi Forbels</u>	Date/Time: <u>2/13/03 2:00pm</u>	Relinquished By:	Date/Time:	Total Cost:
Relinquished By:	Date/Time:	Received By:	Date/Time:	
Received By: <u>Jammi Forbels</u>	Date/Time: <u>2/13/03 2:25pm</u>	Received @ Lab By:	Date/Time:	P.I.F.



PARADIGM

ENVIRONMENTAL SERVICES, INC.

179 Lake Avenue, Rochester, NY 14608 (585) 647-2530 FAX (585) 647-3311

Client: City of Rochester - DEQ

Lab Project No.: 03-0692

Client Job Site: Rochester Fire Academy
Monthly Sampling

Sample Type: Water
Method: EPA 150.1

Client Job No.: DEQ - 98045

Date(s) Sampled: 3/10/03

Date Received: 3/11/03

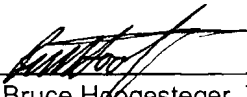
Date Analyzed: 3/11/03

Laboratory Report for pH Analysis

Lab Sample No.	Field ID No.	Field Location	pH Results (S.U.)
2810	N/A	Effluent	7.95

ELAP ID No.: 10958

Comments:

Approved By: 
Bruce Hoogesteger, Technical Director



PARADIGM

ENVIRONMENTAL SERVICES, INC.

179 Lake Avenue Rochester, New York 14608 (585) 647-2530 FAX (585) 647-3311

LABORATORY REPORT OF ANALYSIS

Client: City of Rochester **Lab Project No.:** 03-0692

Client Job Site: RFA Monthly Sampling **Sample Type:** Water

Client Job No.: DEQ 98045 **Analytical Method:** EPA 365.2

Date Sampled: 03/10/2003

Date Received: 03/11/2003

Date Analyzed: 03/14/2003

Lab Sample ID.	Sample Location/Field ID	Total Phosphorus (mg/l)
2810	Effluent	1.60

ELAP ID No. 10709

Comments: ND denotes non-detected.

Approved By Technical Director: _____



Bruce Hoogesteger

**PARADIGM****ENVIRONMENTAL SERVICES, INC.**

179 Lake Avenue, Rochester, NY 14608 (585) 647-2530 FAX (585) 647-3311

Client: **City of Rochester - DEQ**

Lab Project No. 03-0692

Lab Sample No 2810

Client Job Site: Rochester Fire Academy
Quarterly Sampling

Sample Type: Water

Client Job No.: DEQ - 98045

Date Sampled: 3/10/03

Field Location: Effluent

Date Received: 3/11/03

Field ID No.: N/A

Laboratory Report for Metals Analysis

Parameter	Date Analyzed	Analytical Method	Result (mg/L)
Arsenic	03/12/03	EPA 200.7	<0.005
Cadmium	03/12/03	EPA 200.7	<0.005
Chromium	03/12/03	EPA 200.7	<0.010
Copper	03/12/03	EPA 200.7	<0.010
Iron	03/12/03	EPA 200.7	0.933
Lead	03/12/03	EPA 200.7	<0.005
Manganese	03/12/03	EPA 200.7	0.128
Nickel	03/12/03	EPA 200.7	<0.040
Selenium	03/12/03	EPA 200.7	<0.005
Zinc	03/12/03	EPA 200.7	<0.020

ELAP ID No.:10958

Comments:

Approved By: _____

Bruce Hoogesteger, Technical Director

PCB Analysis Report for Non-potable Water

Client: **City of Rochester**

Client Job Site:	RFA Monthly Sampling	Lab Project Number:	03-0692
Client Job Number:	DEQ-98045	Lab Sample Number:	2810
Field Location:	Effluent	Date Sampled:	03/10/2003
Field ID Number:	N/A	Date Received:	03/11/2003
Sample Type:	Water	Date Analyzed:	03/13/2003

PCB Identification	Results in ug / L
Aroclor 1016	ND< 1.00
Aroclor 1221	ND< 1.00
Aroclor 1232	ND< 1.00
Aroclor 1242	ND< 1.00
Aroclor 1248	ND< 1.00
Aroclor 1254	ND< 1.00
Aroclor 1260	ND< 1.00

ELAP Number 10958

Method: EPA 608

Comments: ND denotes Non Detect
ug / L = microgram per Liter

Signature: _____


Bruce Hoogesteger Technical Director

Pesticide Analysis Report for Non-potable Water**Client:** City of Rochester

Client Job Site:	RFA - Monthly Sampling	Lab Project Number:	03-0692
Client Job Number:	DEQ-98045	Lab Sample Number:	2810
Field Location:	Effluent	Date Sampled:	03/10/2003
Field ID Number:	N/A	Date Received:	03/11/2003
Sample Type:	Water	Date Analyzed:	03/14/2003

Pesticide Identification	Results in ug / L
Aldrin	ND< 0.100
alpha-BHC	ND< 0.100
beta-BHC	ND< 0.100
delta-BHC	ND< 0.100
gamma-BHC	ND< 0.100
alpha-Chlordane	ND< 0.100
gamma-Chlordane	ND< 0.100
4,4'-DDD	ND< 0.100
4,4'-DDE	ND< 0.200
4,4'-DDT	ND< 0.100
Dieldrin	ND< 0.100
Endosulfan I	ND< 0.100
Endosulfan II	ND< 0.100
Endosulfan Sulfate	ND< 0.100
Endrin	ND< 0.100
Endrin Aldehyde	ND< 0.100
Heptachlor	ND< 0.100
Heptachlor Epoxide	ND< 0.100
Methoxychlor	ND< 0.100
Toxaphene	ND< 5.00

ELAP Number 10958

Method: EPA 608

Comments: ND denotes Non Detect
ug / L = microgram per Liter

Signature: _____


Bruce Hoogesteger, Technical Director

Semi -Volatile Analysis Report for Non-potable Water

Client: City of Rochester

Client Job Site:	RFA - Monthly Sampling	Lab Project Number:	03-0692
Client Job Number:	DEQ-98045	Lab Sample Number:	2810
Field Location:	Effluent	Date Sampled:	03/10/2003
Field ID Number:	N/A	Date Received:	03/11/2003
Sample Type:	Water	Date Analyzed:	03/14/2003

Base / Neutrals	Results in ug / L	Base / Neutrals	Results in ug / L
Acenaphthene	ND< 10.0	Dibenz (a,h) anthracene	ND< 10.0
Anthracene	ND< 10.0	Fluoranthene	ND< 10.0
Benzo (a) anthracene	ND< 10.0	Fluorene	ND< 10.0
Benzo (a) pyrene	ND< 10.0	Indeno (1,2,3-cd) pyrene	ND< 10.0
Benzo (b) fluoranthene	ND< 10.0	Naphthalene	ND< 10.0
Benzo (g,h,i) perylene	ND< 10.0	Phenanthrene	ND< 10.0
Benzo (k) fluoranthene	ND< 10.0	Pyrene	ND< 10.0
Chrysene	ND< 10.0	Acenaphthylene	ND< 10.0
Diethyl phthalate	ND< 10.0	1,2-Dichlorobenzene	ND< 10.0
Dimethyl phthalate	ND< 25.0	1,3-Dichlorobenzene	ND< 10.0
Butylbenzylphthalate	ND< 10.0	1,4-Dichlorobenzene	ND< 10.0
Di-n-butyl phthalate	ND< 10.0	1,2,4-Trichlorobenzene	ND< 10.0
Di-n-octylphthalate	ND< 10.0	Nitrobenzene	ND< 10.0
Bis (2-ethylhexyl) phthalate	ND< 10.0	2,4-Dinitrotoluene	ND< 10.0
2-Chloronaphthalene	ND< 10.0	2,6-Dinitrotoluene	ND< 10.0
Hexachlorobenzene	ND< 10.0	Bis (2-chloroethyl) ether	ND< 10.0
Hexachloroethane	ND< 10.0	Bis (2-chloroisopropyl) ether	ND< 10.0
Hexachlorocyclopentadiene	ND< 10.0	Bis (2-chloroethoxy) methane	ND< 10.0
Hexachlorobutadiene	ND< 10.0	4-Bromophenyl phenyl ether	ND< 10.0
N-Nitroso-di-n-propylamine	ND< 10.0	4-Chlorophenyl phenyl ether	ND< 10.0
N-Nitrosodiphenylamine	ND< 10.0	Benzidine	ND< 25.0
N-Nitrosodimethylamine	ND< 10.0	3,3'-Dichlorobenzidine	ND< 10.0
Isophorone	ND< 10.0		

Acids	Results in ug / L	Acids	Results in ug / L
Phenol	ND< 10.0	2,4-Dimethylphenol	ND< 10.0
2-Chlorophenol	ND< 10.0	2-Nitrophenol	ND< 10.0
2,4-Dichlorophenol	ND< 10.0	4-Nitrophenol	ND< 25.0
2,4,6-Trichlorophenol	ND< 10.0	2,4-Dinitrophenol	ND< 10.0
Pentachlorophenol	ND< 25.0	4,6-Dinitro-2-methylphenol	ND< 25.0
4-Chloro-3-methylphenol	ND< 10.0		

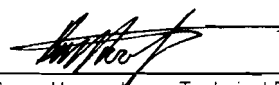
ELAP Number 10958

Method: EPA 625

Data File: 10467.D

Comments: ND denotes Non Detect
 ug / L = microgram per Liter

Signature:


 Bruce Hoogesteger, Technical Director

Volatile Analysis Report for Non-potable Water

Client: City of Rochester

Client Job Site:	RFA - Monthly Sampling	Lab Project Number:	03-0692
		Lab Sample Number:	2810
Client Job Number:	DEQ-98045	Date Sampled:	03/10/2003
Field Location:	Effluent	Date Received:	03/11/2003
Field ID Number:	N/A	Date Analyzed:	03/12/2003
Sample Type:	Water		

Halocarbons	Results in ug / L
2-Chloroethyl vinyl ether	ND< 2.00

Ketones	Results in ug / L
Acetone	ND< 10.0
2-Butanone	ND< 5.00
2-Hexanone	ND< 5.00
4-Methyl-2-pentanone	ND< 5.00

ELAP Number 10958

Method: EPA 8015 Modified

Aromatics	Results in ug / L
m,p - Xylene	ND< 2.00
o - Xylene	ND< 2.00
Styrene	ND< 2.00

Miscellaneous	Results in ug / L
Carbon disulfide	ND< 5.00
Vinyl acetate	ND< 5.00

Data File: 64225.D

Comments: ND denotes Non Detect
ug / L = microgram per Liter

Signature: _____


Bruce Hoogesteger: Technical Director

Volatile Analysis Report for Non-potable Water

Client: City of Rochester

Client Job Site:	RFA Monthly Sampling	Lab Project Number:	03-0692
Client Job Number:	DEQ-98045	Lab Sample Number:	2810
Field Location:	Effluent	Date Sampled:	03/10/2003
Field ID Number:	N/A	Date Received:	03/11/2003
Sample Type:	Water	Date Analyzed:	03/12/2003

Halocarbons	Results in ug / L	Halocarbons	Results in ug / L
Bromodichloromethane	ND< 2.00	trans-1,2-Dichloroethene	ND< 2.00
Bromomethane	ND< 2.00	1,2-Dichloropropane	ND< 2.00
Bromoform	ND< 2.00	cis-1,3-Dichloropropene	ND< 2.00
Carbon tetrachloride	ND< 2.00	trans-1,3-Dichloropropene	ND< 2.00
Chloroethane	ND< 2.00	Methylene chloride	ND< 5.00
Chloromethane	ND< 2.00	1,1,2,2-Tetrachloroethane	ND< 2.00
2-Chloroethyl vinyl ether	ND< 2.00	Tetrachloroethene	ND< 2.00
Chloroform	ND< 2.00	1,1,1-Trichloroethane	24.6
Dibromochloromethane	ND< 2.00	1,1,2-Trichloroethane	ND< 2.00
1,1-Dichloroethane	5.95	Trichloroethene	3.13
1,2-Dichloroethane	3.51	Trichlorofluoromethane	ND< 2.00
1,1-Dichloroethene	ND< 2.00	Vinyl Chloride	ND< 2.00

Aromatics	Results in ug / L	Aromatics	Results in ug / L
Benzene	ND< 0.700	1,2-Dichlorobenzene	ND< 2.00
Chlorobenzene	ND< 2.00	1,3-Dichlorobenzene	ND< 2.00
Ethylbenzene	ND< 2.00	1,4-Dichlorobenzene	ND< 2.00
Toluene	ND< 2.00	Methyl tert-Butyl Ether	ND< 2.00

ELAP Number 10958

Method: EPA 601 / 602

Data File: 64225.D

Comments: ND denotes Non Detect
 ug / L = microgram per Liter

Signature:


 Bruce Hoogesteger, Technical Director

PARA IGM ENVIRONMENTAL SERVICES, INC.

179 Lake Avenue
Rochester, NY 14608
(585) 647-2530 * (800) 724-1997
FAX: (585) 647-3311

CH. OF CUSTODY

REPORT TO:

INVOICE TO:

COMPANY: <u>City of Rochester</u>	COMPANY:	LAB PROJECT #:	CLIENT PROJECT #:
ADDRESS: <u>25 Church St. Rm 3000</u>	ADDRESS:		
CITY: <u>ROCHESTER</u> STATE: <u>NY</u> ZIP: <u>14617</u>	CITY: STATE: ZIP:	TURNAROUND TIME: (WORKING DAYS)	
PHONE: <u>734-7872</u> FAX:	PHONE: PAX:	STD ☒ 5 OTHER ☐	
ATTN: <u>Time Lab</u>	ATTN:		

PROJECT NAME/SITE NAME:

ETA monthly sampling DCA-18045

COMMENTS:

18045

REQUESTED ANALYSIS

DATE	TIME	COMPOSITE	GRAB	SAMPLE LOCATION/FIELD ID	MATRIX	CONTAINER	ANALYSIS	REMARKS	PARADIGM LAB SAMPLE NUMBER
13/10/03			X	Effluent	1120	1120	X X X X X X X		25 10
2									
3									
4									
5									
6									
7									
8									
9									
10									

LAB USE ONLY

SAMPLE CONDITION: Check box if acceptable or note deviation:	CONTAINER TYPE: ☒	PRESERVATIONS: ☒	HOLDING TIME: ☒	TEMPERATURE: ☒
--	---	--	---	--

Sampled By: <u>John M. Jorben</u>	Date/Time: <u>3/10/03 1337</u>	Relinquished By:	Date/Time:	Total Cost:
Relinquished By: <u>John M. Jorben</u>	Date/Time: <u>3/10/03 1415</u>	Received By:	Date/Time:	
Received By: <u>John M. Jorben</u>	Date/Time: <u>3/10/03 1415</u>	Received @ Lab By:	Date/Time:	P.I.F.



PARADIGM

ENVIRONMENTAL SERVICES, INC.

179 Lake Avenue, Rochester, NY 14608 (585) 647-2530 FAX (585) 647-3311

Client: City of Rochester - DEQ

Lab Project No.: 03-0953

Client Job Site: Rochester Fire Academy
Quarterly Sampling

Sample Type: Water
Method: EPA 150.1

Client Job No.: DEQ - 98045

Date(s) Sampled: 4/9/03

Date Received: 4/9/03

Date Analyzed: 4/9/03

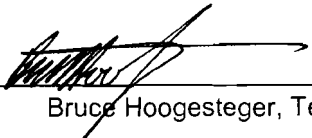
Laboratory Report for pH Analysis

Lab Sample No.	Field ID No.	Field Location	pH Results (S.U.)
3704	N/A	Effluent	7.99

ELAP ID No.: 10958

Comments:

Approved By: _____


Bruce Hoogesteger, Technical Director



PARADIGM

ENVIRONMENTAL SERVICES, INC.

179 Lake Avenue Rochester, New York 14608 (585) 647-2530 FAX (585) 647-3311

LABORATORY REPORT OF ANALYSIS

Client: City of Rochester **Lab Project No.:** 03-0953

Client Job Site: RFA - Monthly Samples **Sample Type:** Water

Client Job No.: DEQ-98045 **Analytical Method:** EPA 365.2

Date Sampled: 04/09/2003

Date Received: 04/09/2003

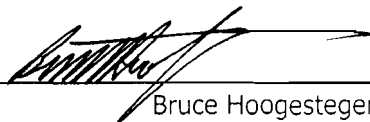
Date Analyzed: 04/15/2003

Lab Sample ID.	Sample Location/Field ID	Total Phosphorus (mg/l)
3704	Effluent	0.41

ELAP ID No. 10709

Comments: ND denotes non-detected.

Approved By Technical Director:


Bruce Hoogesteger



PARADIGM

ENVIRONMENTAL SERVICES, INC.

179 Lake Avenue, Rochester, NY 14608 (585) 647-2530 FAX (585) 647-3311

Client: **City of Rochester - DEQ**

Lab Project No. 03-0953

Lab Sample No 3704

Client Job Site: Rochester Fire Academy
Quarterly Sampling

Sample Type: Water

Client Job No.: DEQ - 98045

Date Sampled: 4/9/03

Field Location: Effluent

Date Received: 4/9/03

Field ID No.: N/A

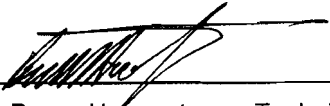
Laboratory Report for Metals Analysis

Parameter	Date Analyzed	Analytical Method	Result (mg/L)
Arsenic	04/10/03	EPA 200.7	<0.005
Cadmium	04/10/03	EPA 200.7	<0.005
Chromium	04/10/03	EPA 200.7	<0.010
Copper	04/10/03	EPA 200.7	<0.010
Iron	04/10/03	EPA 200.7	1.11
Lead	04/10/03	EPA 200.7	<0.005
Manganese	04/10/03	EPA 200.7	0.224
Nickel	04/10/03	EPA 200.7	<0.040
Selenium	04/10/03	EPA 200.7	<0.005
Zinc	04/10/03	EPA 200.7	<0.020

ELAP ID No.:10958

Comments:

Approved By: _____


Bruce Hoogesteger, Technical Director

Pesticide Analysis Report for Non-potable WaterClient: **City of Rochester - DEQ**

Client Job Site:	RFA-Monthly Sampling	Lab Project Number:	03-0953
Client Job Number:	DEQ-98045	Lab Sample Number:	3704
Field Location:	Effluent	Date Sampled:	04/09/2003
Field ID Number:	N/A	Date Received:	04/09/2003
Sample Type:	Water	Date Analyzed:	04/15/2003

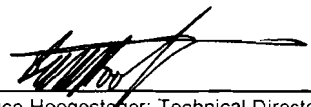
Pesticide Identification	Results in ug / L
Aldrin	ND< 0.100
alpha-BHC	ND< 0.100
beta-BHC	ND< 0.100
delta-BHC	ND< 0.100
gamma-BHC	ND< 0.100
alpha-Chlordane	ND< 0.100
gamma-Chlordane	ND< 0.100
4,4'-DDD	ND< 0.100
4,4'-DDE	ND< 0.200
4,4'-DDT	ND< 0.100
Dieldrin	ND< 0.100
Endosulfan I	ND< 0.100
Endosulfan II	ND< 0.100
Endosulfan Sulfate	ND< 0.100
Endrin	ND< 0.100
Endrin Aldehyde	ND< 0.100
Heptachlor	ND< 0.100
Heptachlor Epoxide	ND< 0.100
Methoxychlor	ND< 0.100
Toxaphene	ND< 5.00

ELAP Number 10958

Method: EPA 608

Comments: ND denotes Non Detect
ug / L = microgram per Liter
Sample exhibited low surrogate recoveries. Possible matrix interference.

Signature: _____


Bruce Hoogesteger: Technical Director

PCB Analysis Report for Non-potable Water

Client: City of Rochester - DEQ

Client Job Site:	RFA - Monthly Monitoring	Lab Project Number:	03-0953
		Lab Sample Number:	3704
Client Job Number:	DEQ-98045	Date Sampled:	04/09/2003
Field Location:	Effluent	Date Received:	04/09/2003
Field ID Number:	N/A	Date Analyzed:	04/16/2003
Sample Type:	Water		

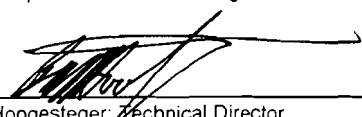
PCB Identification	Results in ug / L
Aroclor 1016	ND< 1.00
Aroclor 1221	ND< 1.00
Aroclor 1232	ND< 1.00
Aroclor 1242	ND< 1.00
Aroclor 1248	ND< 1.00
Aroclor 1254	ND< 1.00
Aroclor 1260	ND< 1.00

ELAP Number 10958

Method: EPA 608

Comments: ND denotes Non Detect
ug / L = microgram per Liter
Sample exhibited low surrogate recoveries. Possible matrix interference.

Signature:


Bruce Hoogesteger, Technical Director

Semi -Volatile Analysis Report for Non-potable Water

Client: City of Rochester

Client Job Site:	RFA-Monthly Samples	Lab Project Number:	03-0953
Client Job Number:	DEQ-98045	Lab Sample Number:	3704
Field Location:	Effluent	Date Sampled:	04/09/2003
Field ID Number:	N/A	Date Received:	04/09/2003
Sample Type:	Water	Date Analyzed:	04/16/2003

Base / Neutrals	Results in ug / L	Base / Neutrals	Results in ug / L
Acenaphthene	ND< 10.0	Dibenz (a,h) anthracene	ND< 10.0
Anthracene	ND< 10.0	Fluoranthene	ND< 10.0
Benzo (a) anthracene	ND< 10.0	Fluorene	ND< 10.0
Benzo (a) pyrene	ND< 10.0	Indeno (1,2,3-cd) pyrene	ND< 10.0
Benzo (b) fluoranthene	ND< 10.0	Naphthalene	ND< 10.0
Benzo (g,h,i) perylene	ND< 10.0	Phenanthrene	ND< 10.0
Benzo (k) fluoranthene	ND< 10.0	Pyrene	ND< 10.0
Chrysene	ND< 10.0	Acenaphthylene	ND< 10.0
Diethyl phthalate	ND< 10.0	1,2-Dichlorobenzene	ND< 10.0
Dimethyl phthalate	ND< 25.0	1,3-Dichlorobenzene	ND< 10.0
Butylbenzylphthalate	ND< 10.0	1,4-Dichlorobenzene	ND< 10.0
Di-n-butyl phthalate	ND< 10.0	1,2,4-Trichlorobenzene	ND< 10.0
Di-n-octylphthalate	ND< 10.0	Nitrobenzene	ND< 10.0
Bis (2-ethylhexyl) phthalate	ND< 10.0	2,4-Dinitrotoluene	ND< 10.0
2-Chloronaphthalene	ND< 10.0	2,6-Dinitrotoluene	ND< 10.0
Hexachlorobenzene	ND< 10.0	Bis (2-chloroethyl) ether	ND< 10.0
Hexachloroethane	ND< 10.0	Bis (2-chloroisopropyl) ether	ND< 10.0
Hexachlorocyclopentadiene	ND< 10.0	Bis (2-chloroethoxy) methane	ND< 10.0
Hexachlorobutadiene	ND< 10.0	4-Bromophenyl phenyl ether	ND< 10.0
N-Nitroso-di-n-propylamine	ND< 10.0	4-Chlorophenyl phenyl ether	ND< 10.0
N-Nitrosodiphenylamine	ND< 10.0	Benzidine	ND< 25.0
N-Nitrosodimethylamine	ND< 10.0	3,3'-Dichlorobenzidine	ND< 10.0
Isophorone	ND< 10.0		

Acids	Results in ug / L	Acids	Results in ug / L
Phenol	ND< 10.0	2,4-Dimethylphenol	ND< 10.0
2-Chlorophenol	ND< 10.0	2-Nitrophenol	ND< 10.0
2,4-Dichlorophenol	ND< 10.0	4-Nitrophenol	ND< 25.0
2,4,6-Trichlorophenol	ND< 10.0	2,4-Dinitrophenol	ND< 10.0
Pentachlorophenol	ND< 25.0	4,6-Dinitro-2-methylphenol	ND< 25.0
4-Chloro-3-methylphenol	ND< 10.0		

ELAP Number 10958

Method: EPA 625

Data File: 10831.D

Comments: ND denotes Non Detect
 ug / L = microgram per Liter

Signature:


 Bruce Hoogesteger, Technical Director

Volatile Analysis Report for Non-potable Water

Client: City of Rochester - DEQ

Client Job Site:	RFA - Monthly Samples	Lab Project Number:	03-0953
Client Job Number:	DEQ-98045	Lab Sample Number:	3704
Field Location:	Effluent	Date Sampled:	04/09/2003
Field ID Number:	N/A	Date Received:	04/09/2003
Sample Type:	Water	Date Analyzed:	04/14/2003

Halocarbons	Results in ug / L
2-Chloroethyl vinyl ether	ND< 2.00

Ketones	Results in ug / L
Acetone	92.0
2-Butanone	39.9
2-Hexanone	ND< 5.00
4-Methyl-2-pentanone	11.6

ELAP Number 10958

Method: EPA 8015 Modified

Aromatics	Results in ug / L
m,p - Xylene	ND< 2.00
o - Xylene	ND< 2.00
Styrene	ND< 2.00

Miscellaneous	Results in ug / L
Carbon disulfide	ND< 5.00
Vinyl acetate	ND< 5.00

Data File: 64628.D

Comments: ND denotes Non Detect
ug / L = microgram per Liter

Signature:


Bruce Hoogesteger, Technical Director

Volatile Analysis Report for Non-potable Water

Client: City of Rochester - DEQ

Client Job Site:	RFA-Monthly Samples	Lab Project Number:	03-0953
Client Job Number:	DEQ-98045	Lab Sample Number:	3704
Field Location:	Effluent	Date Sampled:	04/09/2003
Field ID Number:	N/A	Date Received:	04/09/2003
Sample Type:	Water	Date Analyzed:	04/14/2003

Halocarbons	Results in ug / L	Halocarbons	Results in ug / L
Bromodichloromethane	ND< 2.00	trans-1,2-Dichloroethene	ND< 2.00
Bromomethane	ND< 2.00	1,2-Dichloropropane	ND< 2.00
Bromoform	ND< 2.00	cis-1,3-Dichloropropene	ND< 2.00
Carbon tetrachloride	ND< 2.00	trans-1,3-Dichloropropene	ND< 2.00
Chloroethane	ND< 2.00	Methylene chloride	ND< 5.00
Chloromethane	ND< 2.00	1,1,2,2-Tetrachloroethane	ND< 2.00
2-Chloroethyl vinyl ether	ND< 2.00	Tetrachloroethene	ND< 2.00
Chloroform	ND< 2.00	1,1,1-Trichloroethane	12.6
Dibromochloromethane	ND< 2.00	1,1,2-Trichloroethane	ND< 2.00
1,1-Dichloroethane	3.52	Trichloroethene	2.90
1,2-Dichloroethane	3.79	Trichlorofluoromethane	ND< 2.00
1,1-Dichloroethene	ND< 2.00	Vinyl Chloride	ND< 2.00

Aromatics	Results in ug / L	Aromatics	Results in ug / L
Benzene	ND< 0.700	1,2-Dichlorobenzene	ND< 2.00
Chlorobenzene	ND< 2.00	1,3-Dichlorobenzene	ND< 2.00
Ethylbenzene	ND< 2.00	1,4-Dichlorobenzene	ND< 2.00
Toluene	ND< 2.00	Methyl tert-Butyl Ether	ND< 2.00

ELAP Number 10958

Method: EPA 601 / 602

Data File: 64628.D

Comments: ND denotes Non Detect
ug / L = microgram per Liter

Signature:


Bruce Hoogesteger, Technical Director

PARADIGM

ENVIRONMENTAL SERVICES, INC.

179 Lake Avenue
Rochester, NY 14608
(585) 647-2530 • (800) 724-1997
FAX: (585) 647-3311

REPORT TO:

INVOICE TO:

CHAIN OF CUSTODY

COMPANY: <u>City of Rochester DEC</u>	COMPANY: <u></u>	LAB PROJECT #: <u>05-0453</u>	CLIENT PROJECT #: <u></u>								
ADDRESS: <u>301 Avenue A St. Room 300R</u>	ADDRESS: <u></u>	TURNAROUND TIME: (WORKING DAYS)									
CITY: <u>Rochester NY</u> STATE: <u>NY</u> ZIP: <u>14614</u>	CITY: <u></u> STATE: <u></u> ZIP: <u></u>										
PHONE: <u>428-7892</u> (FAX: <u>428-6010</u>)	PHONE: <u></u> (FAX: <u></u>)										
ATTN: <u>Jane Faber</u>	ATTN: <u></u>										
COMMENTS: <u>RTA - Monthly Samples DEC-98045</u>	COMMENTS: <u></u>										
		1	2	3	4	5	6	7	8	9	10

REQUESTED ANALYSIS

DATE	TIME	COMPOSITE	GRADES	SAMPLE LOCATION/FIELD ID	MATERIALS	CONTAMINANTS	TESTS	REMARKS	PARADIGM LAB SAMPLE NUMBER
1/4/98	1200			1111111					
2/1/98									
3/1/98									
4/1/98									
5/1/98									
6/1/98									
7/1/98									
8/1/98									
9/1/98									
10/1/98									

LAB USE ONLY

SAMPLE CONDITION: Check box ☒ CONTAINER TYPE: ☒ PRESERVATIONS: ☒ HOLDING TIME: ☒ TEMPERATURE: ☒

SAMPLED BY: Jane Mithelbe Date/Time: 4/9/03 1200 RELINQUISHED BY: Jane Mithelbe Date/Time: 4/9/03 1400

RECEIVED BY: Jane Mithelbe Date/Time: 4/9/03 1400 RECEIVED @ LAB BY: Jane Mithelbe Date/Time: 4/9/03 1400

PLF:



PARADIGM

ENVIRONMENTAL SERVICES, INC.

179 Lake Avenue, Rochester, NY 14608 (585) 647-2530 FAX (585) 647-3311

Client: City of Rochester - DEQ

Lab Project No.: 03-1423

Client Job Site: Rochester Fire Academy
Quarterly Sampling

Sample Type: Water
Method: EPA 150.1

Client Job No.: DEQ - 98045

Date(s) Sampled: 5/30/2003

Date Received: 5/30/2003

Date Analyzed: 5/30/2003

Laboratory Report for pH Analysis

Lab Sample No.	Field ID No.	Field Location	pH Results (S.U.)
5184	N/A	Influent	6.97
5185	N/A	Effluent	7.78

ELAP ID No.: 10958

Comments:

Approved By: _____


Bruce Hoogesteger, Technical Director

Client: City of Rochester - DEQ

Lab Project No.: 03-1423

Client Job Site: Rochester Fire Academy
Quarterly Sampling

Client Job No.: DEQ - 98045

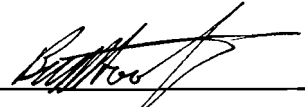
Sample Type: Water
Method: EPA 200.7
Date Sampled: 05/30/2003
Date Received: 05/30/2003
Date Analyzed: 06/03/2003

Laboratory Report for Hardness Analysis

Lab Sample No.:	Field ID	Field Location	Total Hardness (mg/L)
5184	N/A	Influent	470

ELAP ID No.:10958

Comments:

Approved By: 
Bruce Hoogesteger, Technical Director



PARADIGM

ENVIRONMENTAL SERVICES, INC. 179 Lake Avenue Rochester New York 14608 (585) 647-2530 FAX (585) 647-3311

LABORATORY REPORT OF ANALYSIS

Client: City of Rochester

Lab Project No.: 03-1423

Client Job Site: RFA - Quarterly Sampling

Lab Sample No.: 5184

Client Job No.: DEQ-98045

Sample Type: Water

Field Location: GWTS Influent

Date Sampled: 05/30/2003

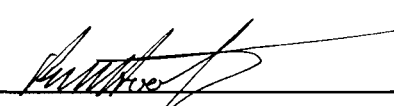
Date Received: 05/30/2003

Parameter	Date Analyzed	Analytical Method	Result (mg/l)
Alkalinity	06/05/2003	EPA 310.1	420

ELAP ID.No.: 10709

Comments: ND denotes Non Detected.

Approved By Technical Director: _____


Bruce Hoogesteger



Client: City of Rochester - DEQ

Lab Project No. 03-1423

Lab Sample No 5184

Client Job Site: Rochester Fire Academy
Quarterly Sampling

Sample Type: Water

Client Job No.: DEQ - 98045

Date Sampled: 5/30/03

Field Location: Influent

Date Received: 5/30/03

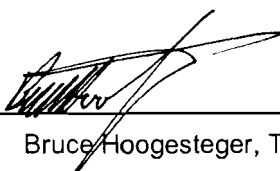
Field ID No.: N/A

Laboratory Report for Metals Analysis

Parameter	Date Analyzed	Analytical Method	Result (mg/L)
Arsenic	06/03/2003	EPA 200.7	0.012
Cadmium	06/03/2003	EPA 200.7	<0.005
Chromium	06/03/2003	EPA 200.7	<0.010
Copper	06/03/2003	EPA 200.7	<0.010
Iron	06/03/2003	EPA 200.7	2.06
Lead	06/03/2003	EPA 200.7	<0.005
Manganese	06/03/2003	EPA 200.7	0.476
Nickel	06/03/2003	EPA 200.7	<0.040
Selenium	06/03/2003	EPA 200.7	<0.005
Zinc	06/03/2003	EPA 200.7	<0.020

ELAP ID No.:10958

Comments:

Approved By: 
Bruce Hoogesteger, Technical Director

Pesticide Analysis Report for Non-potable Water

Client: City of Rochester - DEQ

Client Job Site:	RFA - Quarterly Sampling	Lab Project Number:	03-1423
		Lab Sample Number:	5184
Client Job Number:	DEQ-98045		
Field Location:	GWTS Influent	Date Sampled:	05/30/2003
Field ID Number:	N/A	Date Received:	05/30/2003
Sample Type:	Water	Date Analyzed:	06/05/2003

Pesticide Identification	Results in ug / L
Aldrin	ND< 0.100
alpha-BHC	ND< 0.100
beta-BHC	ND< 0.100
delta-BHC	ND< 0.100
gamma-BHC	ND< 0.100
alpha-Chlordane	ND< 0.100
gamma-Chlordane	ND< 0.100
4,4'-DDD	ND< 0.100
4,4'-DDE	ND< 0.200
4,4'-DDT	ND< 0.100
Dieldrin	ND< 0.100
Endosulfan I	ND< 0.100
Endosulfan II	ND< 0.100
Endosulfan Sulfate	ND< 0.100
Endrin	ND< 0.100
Endrin Aldehyde	ND< 0.100
Heptachlor	ND< 0.100
Heptachlor Epoxide	ND< 0.100
Methoxychlor	ND< 0.100
Toxaphene	ND< 5.00

ELAP Number 10958

Method: EPA 608

Comments: ND denotes Non Detect
 ug / L = microgram per Liter
 Sample exhibited low surrogate recoveries. Probable matrix interference.

Signature:


 Bruce Hodgeleger, Technical Director

PCB Analysis Report for Non-potable Water

Client: City of Rochester - DEQ

Client Job Site:	RFA - Quarterly Sampling	Lab Project Number:	03-1423
		Lab Sample Number:	5184
Client Job Number:	DEQ-98045	Date Sampled:	05/30/2003
Field Location:	GWTS Influent	Date Received:	05/30/2003
Field ID Number:	N/A	Date Analyzed:	06/03/2003
Sample Type:	Water		

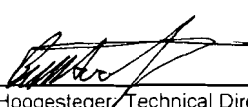
PCB Identification	Results in ug / L
Aroclor 1016	ND< 1.00
Aroclor 1221	ND< 1.00
Aroclor 1232	ND< 1.00
Aroclor 1242	ND< 1.00
Aroclor 1248	ND< 1.00
Aroclor 1254	ND< 1.00
Aroclor 1260	ND< 1.00

ELAP Number 10958

Method: EPA 608

Comments: ND denotes Non Detect
ug / L = microgram per Liter

Signature: _____


Bruce Hoogesteger, Technical Director

Volatile Analysis Report for Non-potable Water

Client: City of Rochester - DEQ

Client Job Site:	RFA - Quarterly Sampling	Lab Project Number:	03-1423
Client Job Number:	DEQ-98045	Lab Sample Number:	5184
Field Location:	GWTS Influent	Date Sampled:	05/30/2003
Field ID Number:	N/A	Date Received:	05/30/2003
Sample Type:	Water	Date Analyzed:	06/05/2003

Halocarbons	Results in ug / L	Halocarbons	Results in ug / L
Bromodichloromethane	ND< 400	trans-1,2-Dichloroethene	ND< 400
Bromomethane	ND< 400	1,2-Dichloropropane	ND< 400
Bromoform	ND< 400	cis-1,3-Dichloropropene	ND< 400
Carbon tetrachloride	ND< 400	trans-1,3-Dichloropropene	ND< 400
Chloroethane	ND< 400	Methylene chloride	ND< 1,000
Chloromethane	ND< 400	1,1,2,2-Tetrachloroethane	ND< 400
2-Chloroethyl vinyl ether	ND< 400	Tetrachloroethene	ND< 400
Chloroform	ND< 400	1,1,1-Trichloroethane	22,000
Dibromochloromethane	ND< 400	1,1,2-Trichloroethane	ND< 400
1,1-Dichloroethane	3,180	Trichloroethene	1,570
1,2-Dichloroethane	ND< 400	Trichlorofluoromethane	ND< 400
1,1-Dichloroethene	812	Vinyl Chloride	973

Aromatics	Results in ug / L	Aromatics	Results in ug / L
Benzene	ND< 140	1,2-Dichlorobenzene	ND< 400
Chlorobenzene	ND< 400	1,3-Dichlorobenzene	ND< 400
Ethylbenzene	ND< 400	1,4-Dichlorobenzene	ND< 400
Toluene	2,060		

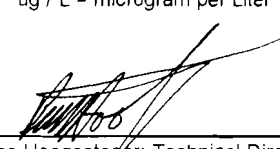
ELAP Number 10958

Method: EPA 601 / 602

Data File: 65572.D

Comments: ND denotes Non Detect
 ug / L = microgram per Liter

Signature:


 Bruce Hoogesteger: Technical Director



PARADIGM

ENVIRONMENTAL SERVICES, INC. 179 Lake Avenue Rochester New York 14608 (585) 647-2530 FAX (585) 647-3311

LABORATORY REPORT OF ANALYSIS

Client: City of Rochester

Lab Project No.: 03-1423

Lab Sample No.: 5185

Client Job Site: RFA - Quarterly Sampling

Sample Type: Water

Client Job No.: DEQ-98045

Date Sampled: 05/30/2003

Field Location: GWTS Effluent

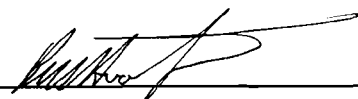
Date Received: 05/30/2003

Parameter	Date Analyzed	Analytical Method	Result (mg/l)
Total Phosphorus	06/03/2003	EPA 365.2	1.00

ELAP ID.No.: 10709

Comments: ND denotes Non Detected.

Approved By Technical Director:


Bruce Hoogesteger



Client: **City of Rochester - DEQ**

Lab Project No. 03-1423

Lab Sample No 5185

Client Job Site: Rochester Fire Academy
Quarterly Sampling

Sample Type: Water

Client Job No.: DEQ - 98045

Date Sampled: 5/30/03

Field Location: Effluent

Date Received: 5/30/03

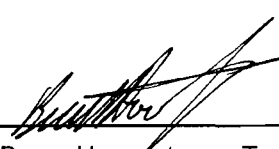
Field ID No.: N/A

Laboratory Report for Metals Analysis

Parameter	Date Analyzed	Analytical Method	Result (mg/L)
Arsenic	06/03/2003	EPA 200.7	0.014
Cadmium	06/03/2003	EPA 200.7	<0.005
Chromium	06/03/2003	EPA 200.7	1.37
Copper	06/03/2003	EPA 200.7	0.021
Iron	06/03/2003	EPA 200.7	6.86
Lead	06/03/2003	EPA 200.7	<0.005
Manganese	06/03/2003	EPA 200.7	0.522
Nickel	06/03/2003	EPA 200.7	0.186
Selenium	06/03/2003	EPA 200.7	<0.005
Zinc	06/03/2003	EPA 200.7	<0.020

ELAP ID No.:10958

Comments:

Approved By: 
Bruce Hoogesteger, Technical Director

Pesticide Analysis Report for Non-potable Water

Client: **City of Rochester - DEQ**

Client Job Site:	RFA - Quarterly Sampling	Lab Project Number:	03-1423
		Lab Sample Number:	5185
Client Job Number:	DEQ-98045		
Field Location:	GWTS Effluent	Date Sampled:	05/30/2003
Field ID Number:	N/A	Date Received:	05/30/2003
Sample Type:	Water	Date Analyzed:	06/05/2003

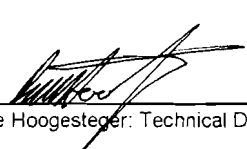
Pesticide Identification	Results in ug / L
Aldrin	ND< 0.100
alpha-BHC	ND< 0.100
beta-BHC	ND< 0.100
delta-BHC	ND< 0.100
gamma-BHC	ND< 0.100
alpha-Chlordane	ND< 0.100
gamma-Chlordane	ND< 0.100
4,4'-DDD	ND< 0.100
4,4'-DDE	ND< 0.200
4,4'-DDT	ND< 0.100
Dieldrin	ND< 0.100
Endosulfan I	ND< 0.100
Endosulfan II	ND< 0.100
Endosulfan Sulfate	ND< 0.100
Endrin	ND< 0.100
Endrin Aldehyde	ND< 0.100
Heptachlor	ND< 0.100
Heptachlor Epoxide	ND< 0.100
Methoxychlor	ND< 0.100
Toxaphene	ND< 5.00

ELAP Number 10958

Method: EPA 608

Comments ND denotes Non Detect
ug / L = microgram per Liter

Signature: _____


Bruce Hoogesteger: Technical Director

PCB Analysis Report for Non-potable Water

Client: City of Rochester - DEQ

Client Job Site:	RFA - Quarterly Sampling	Lab Project Number:	03-1423
		Lab Sample Number:	5185
Client Job Number:	DEQ-98045		
Field Location:	GWTS Effluent	Date Sampled:	05/30/2003
Field ID Number:	N/A	Date Received:	05/30/2003
Sample Type:	Water	Date Analyzed:	06/03/2003

PCB Identification	Results in ug / L
Aroclor 1016	ND< 1.00
Aroclor 1221	ND< 1.00
Aroclor 1232	ND< 1.00
Aroclor 1242	ND< 1.00
Aroclor 1248	ND< 1.00
Aroclor 1254	ND< 1.00
Aroclor 1260	ND< 1.00

ELAP Number 10958

Method: EPA 608

Comments: ND denotes Non Detect
ug / L = microgram per Liter

Signature:


Bruce Hoogesteger: Technical Director

Semi -Volatile Analysis Report for Non-potable Water

 Client: **City of Rochester - DEQ**

Client Job Site:	RFA - Quarterly Sampling	Lab Project Number:	03-1423
		Lab Sample Number:	5185
Client Job Number:	DEQ-98045	Date Sampled:	05/30/2003
Field Location:	GWTS Effluent	Date Received:	05/30/2003
Field ID Number:	N/A	Date Analyzed:	06/05/2003
Sample Type:	Water		

Base / Neutrals	Results in ug / L	Base / Neutrals	Results in ug / L
Acenaphthene	ND< 10.0	Dibenz (a,h) anthracene	ND< 10.0
Anthracene	ND< 10.0	Fluoranthene	ND< 10.0
Benzo (a) anthracene	ND< 10.0	Fluorene	ND< 10.0
Benzo (a) pyrene	ND< 10.0	Indeno (1,2,3-cd) pyrene	ND< 10.0
Benzo (b) fluoranthene	ND< 10.0	Naphthalene	ND< 10.0
Benzo (g,h,i) perylene	ND< 10.0	Phenanthrene	ND< 10.0
Benzo (k) fluoranthene	ND< 10.0	Pyrene	ND< 10.0
Chrysene	ND< 10.0	Acenaphthylene	ND< 10.0
Diethyl phthalate	15.6	1,2-Dichlorobenzene	ND< 10.0
Dimethyl phthalate	ND< 25.0	1,3-Dichlorobenzene	ND< 10.0
Butylbenzylphthalate	ND< 10.0	1,4-Dichlorobenzene	ND< 10.0
Di-n-butyl phthalate	ND< 10.0	1,2,4-Trichlorobenzene	ND< 10.0
Di-n-octylphthalate	ND< 10.0	Nitrobenzene	ND< 10.0
Bis (2-ethylhexyl) phthalate	ND< 10.0	2,4-Dinitrotoluene	ND< 10.0
2-Chloronaphthalene	ND< 10.0	2,6-Dinitrotoluene	ND< 10.0
Hexachlorobenzene	ND< 10.0	Bis (2-chloroethyl) ether	ND< 10.0
Hexachloroethane	ND< 10.0	Bis (2-chloroisopropyl) ether	ND< 10.0
Hexachlorocyclopentadiene	ND< 10.0	Bis (2-chloroethoxy) methane	ND< 10.0
Hexachlorobutadiene	ND< 10.0	4-Bromophenyl phenyl ether	ND< 10.0
N-Nitroso-di-n-propylamine	ND< 10.0	4-Chlorophenyl phenyl ether	ND< 10.0
N-Nitrosodiphenylamine	ND< 10.0	Benzidine	ND< 25.0
N-Nitrosodimethylamine	ND< 10.0	3,3'-Dichlorobenzidine	ND< 10.0
Isophorone	ND< 10.0		

Acids	Results in ug / L	Acids	Results in ug / L
Phenol	ND< 10.0	2,4-Dimethylphenol	ND< 10.0
2-Chlorophenol	ND< 10.0	2-Nitrophenol	ND< 10.0
2,4-Dichlorophenol	ND< 10.0	4-Nitrophenol	ND< 25.0
2,4,6-Trichlorophenol	ND< 10.0	2,4-Dinitrophenol	ND< 10.0
Pentachlorophenol	ND< 25.0	4,6-Dinitro-2-methylphenol	ND< 25.0
4-Chloro-3-methylphenol	ND< 10.0		

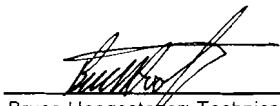
ELAP Number 10958

Method: EPA 625

Data File: 11338.D

Comments: ND denotes Non Detect
 ug / L = microgram per Liter
 Sample exhibited low acid surrogate recoveries. Probable matrix interference.

Signature:


 Bruce Hoogesteger: Technical Director

Volatile Analysis Report for Non-potable Water

Client: City of Rochester - DEQ

Client Job Site:	RFA - Quarterly Sampling	Lab Project Number:	03-1423
		Lab Sample Number:	5185
Client Job Number:	DEQ-98045	Date Sampled:	05/30/2003
Field Location:	GWTS Effluent	Date Received:	05/30/2003
Field ID Number:	N/A	Date Analyzed:	06/05/2003
Sample Type:	Water		

Halocarbons	Results in ug / L
2-Chloroethyl vinyl ether	ND< 2.00

Ketones	Results in ug / L
Acetone	192
2-Butanone	86.8
2-Hexanone	ND< 5.00
4-Methyl-2-pentanone	28.9

ELAP Number 10958

Method: EPA 8015 Modified

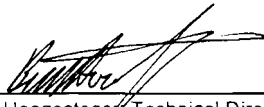
Aromatics	Results in ug / L
m,p - Xylene	ND< 2.00
o - Xylene	ND< 2.00
Styrene	ND< 2.00

Miscellaneous	Results in ug / L
Carbon disulfide	ND< 5.00
Vinyl acetate	ND< 5.00

Data File: 65573.D

Comments: ND denotes Non Detect
ug / L = microgram per Liter

Signature: _____


Bruce Hoogesteger, Technical Director

Volatile Analysis Report for Non-potable Water

Client: City of Rochester - DEQ

Client Job Site:	RFA - Quarterly Sampling	Lab Project Number:	03-1423
Client Job Number:	DEQ-98045	Lab Sample Number:	5185
Field Location:	GWTS Effluent	Date Sampled:	05/30/2003
Field ID Number:	N/A	Date Received:	05/30/2003
Sample Type:	Water	Date Analyzed:	06/05/2003

Halocarbons	Results in ug / L	Halocarbons	Results in ug / L
Bromodichloromethane	ND< 2.00	trans-1,2-Dichloroethene	ND< 2.00
Bromomethane	ND< 2.00	1,2-Dichloropropane	ND< 2.00
Bromoform	ND< 2.00	cis-1,3-Dichloropropene	ND< 2.00
Carbon tetrachloride	ND< 2.00	trans-1,3-Dichloropropene	ND< 2.00
Chloroethane	ND< 2.00	Methylene chloride	ND< 5.00
Chloromethane	ND< 2.00	1,1,2,2-Tetrachloroethane	ND< 2.00
2-Chloroethyl vinyl ether	ND< 2.00	Tetrachloroethene	ND< 2.00
Chloroform	ND< 2.00	1,1,1-Trichloroethane	91.8
Dibromochloromethane	ND< 2.00	1,1,2-Trichloroethane	ND< 2.00
1,1-Dichloroethane	18.8	Trichloroethene	5.57
1,2-Dichloroethane	9.64	Trichlorofluoromethane	ND< 2.00
1,1-Dichloroethene	ND< 2.00	Vinyl Chloride	3.50

Aromatics	Results in ug / L	Aromatics	Results in ug / L
Benzene	ND< 0.700	1,2-Dichlorobenzene	ND< 2.00
Chlorobenzene	ND< 2.00	1,3-Dichlorobenzene	ND< 2.00
Ethylbenzene	ND< 2.00	1,4-Dichlorobenzene	ND< 2.00
Toluene	2.76		

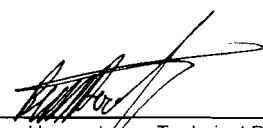
ELAP Number 10958

Method: EPA 601 / 602

Data File: 65573.D

Comments: ND denotes Non Detect
 ug / L = microgram per Liter

Signature:


 Bruce Hoogesteger: Technical Director

179 Lake Avenue
Rochester, NY 14608
(585) 647-2530 * (800) 724-1997
FAX: (585) 647-3311

CH

REPORT TO:

INVOICE TO:

COMPANY: City of Rochester - DSO		COMPANY:		LAB PROJECT #:		CLIENT PROJECT #:	
ADDRESS: 30 Church St. Rm 300E		ADDRESS:		03-1423			
CITY: Rochester	STATE: NY	ZIP: 14614	CITY:	STATE:	ZIP:	TURNAROUND TIME: (WORKING DAYS)	
PHONE: 428-7892	FAX: 428-6010		PHONE:		FAX:		
ATTN: Jane Forbes	ATTN:				☐ 1 ☐ 2 ☐ 3 ☒ 5 ☐ 6 ☐ 7 ☐ 8 ☐ 9 ☐ 10 ☐ 11 ☐ 12 ☐ 13 ☐ 14 ☐ 15 ☐ 16 ☐ 17 ☐ 18 ☐ 19 ☐ 20 ☐ 21 ☐ 22 ☐ 23 ☐ 24 ☐ 25 ☐ 26 ☐ 27 ☐ 28 ☐ 29 ☐ 30 ☐ 31 ☐ 32 ☐ 33 ☐ 34 ☐ 35 ☐ 36 ☐ 37 ☐ 38 ☐ 39 ☐ 40 ☐ 41 ☐ 42 ☐ 43 ☐ 44 ☐ 45 ☐ 46 ☐ 47 ☐ 48 ☐ 49 ☐ 50 ☐ 51 ☐ 52 ☐ 53 ☐ 54 ☐ 55 ☐ 56 ☐ 57 ☐ 58 ☐ 59 ☐ 60 ☐ 61 ☐ 62 ☐ 63 ☐ 64 ☐ 65 ☐ 66 ☐ 67 ☐ 68 ☐ 69 ☐ 70 ☐ 71 ☐ 72 ☐ 73 ☐ 74 ☐ 75 ☐ 76 ☐ 77 ☐ 78 ☐ 79 ☐ 80 ☐ 81 ☐ 82 ☐ 83 ☐ 84 ☐ 85 ☐ 86 ☐ 87 ☐ 88 ☐ 89 ☐ 90 ☐ 91 ☐ 92 ☐ 93 ☐ 94 ☐ 95 ☐ 96 ☐ 97 ☐ 98 ☐ 99 ☐ 100 ☐ 101 ☐ 102 ☐ 103 ☐ 104 ☐ 105 ☐ 106 ☐ 107 ☐ 108 ☐ 109 ☐ 110 ☐ 111 ☐ 112 ☐ 113 ☐ 114 ☐ 115 ☐ 116 ☐ 117 ☐ 118 ☐ 119 ☐ 120 ☐ 121 ☐ 122 ☐ 123 ☐ 124 ☐ 125 ☐ 126 ☐ 127 ☐ 128 ☐ 129 ☐ 130 ☐ 131 ☐ 132 ☐ 133 ☐ 134 ☐ 135 ☐ 136 ☐ 137 ☐ 138 ☐ 139 ☐ 140 ☐ 141 ☐ 142 ☐ 143 ☐ 144 ☐ 145 ☐ 146 ☐ 147 ☐ 148 ☐ 149 ☐ 150 ☐ 151 ☐ 152 ☐ 153 ☐ 154 ☐ 155 ☐ 156 ☐ 157 ☐ 158 ☐ 159 ☐ 160 ☐ 161 ☐ 162 ☐ 163 ☐ 164 ☐ 165 ☐ 166 ☐ 167 ☐ 168 ☐ 169 ☐ 170 ☐ 171 ☐ 172 ☐ 173 ☐ 174 ☐ 175 ☐ 176 ☐ 177 ☐ 178 ☐ 179 ☐ 180 ☐ 181 ☐ 182 ☐ 183 ☐ 184 ☐ 185 ☐ 186 ☐ 187 ☐ 188 ☐ 189 ☐ 190 ☐ 191 ☐ 192 ☐ 193 ☐ 194 ☐ 195 ☐ 196 ☐ 197 ☐ 198 ☐ 199 ☐ 200 ☐ 201 ☐ 202 ☐ 203 ☐ 204 ☐ 205 ☐ 206 ☐ 207 ☐ 208 ☐ 209 ☐ 210 ☐ 211 ☐ 212 ☐ 213 ☐ 214 ☐ 215 ☐ 216 ☐ 217 ☐ 218 ☐ 219 ☐ 220 ☐ 221 ☐ 222 ☐ 223 ☐ 224 ☐ 225 ☐ 226 ☐ 227 ☐ 228 ☐ 229 ☐ 230 ☐ 231 ☐ 232 ☐ 233 ☐ 234 ☐ 235 ☐ 236 ☐ 237 ☐ 238 ☐ 239 ☐ 240 ☐ 241 ☐ 242 ☐ 243 ☐ 244 ☐ 245 ☐ 246 ☐ 247 ☐ 248 ☐ 249 ☐ 250 ☐ 251 ☐ 252 ☐ 253 ☐ 254 ☐ 255 ☐ 256 ☐ 257 ☐ 258 ☐ 259 ☐ 260 ☐ 261 ☐ 262 ☐ 263 ☐ 264 ☐ 265 ☐ 266 ☐ 267 ☐ 268 ☐ 269 ☐ 270 ☐ 271 ☐ 272 ☐ 273 ☐ 274 ☐ 275 ☐ 276 ☐ 277 ☐ 278 ☐ 279 ☐ 280 ☐ 281 ☐ 282 ☐ 283 ☐ 284 ☐ 285 ☐ 286 ☐ 287 ☐ 288 ☐ 289 ☐ 290 ☐ 291 ☐ 292 ☐ 293 ☐ 294 ☐ 295 ☐ 296 ☐ 297 ☐ 298 ☐ 299 ☐ 300 ☐ 301 ☐ 302 ☐ 303 ☐ 304 ☐ 305 ☐ 306 ☐ 307 ☐ 308 ☐ 309 ☐ 310 ☐ 311 ☐ 312 ☐ 313 ☐ 314 ☐ 315 ☐ 316 ☐ 317 ☐ 318 ☐ 319 ☐ 320 ☐ 321 ☐ 322 ☐ 323		

REQUESTED ANALYSIS

[illegible]

****LAB USE ONLY****

SAMPLE CONDITION: Check box if acceptable or note deviation:	CONTAINER TYPE:	☒	PRESERVATIONS:	☒	HOLDING TIME:	☒	TEMPERATURE:	☒ 21°C

Sampled By:	Date/Time:
James H. Forbes	5/30/03 1200
Relinquished By:	Date/Time:
James H. Forbes	5/30/03 1600
Received By:	Date/Time:
James H. Forbes	5/30/03 1600

Relinquished By:	Date/Time:
Received By:	Date/Time:
Received @ Lab By:	Date/Time:

Total Cost:

P.I.F.



PARADIGM

ENVIRONMENTAL SERVICES, INC.

179 Lake Avenue, Rochester, NY 14608 (585) 647-2530 FAX (585) 647-3311

Client: City of Rochester - DEQ

Lab Project No.: 03-1673

Client Job Site: Rochester Fire Academy
Monthly Sampling

Sample Type: Water
Method: EPA 150.1

Client Job No.: DEQ - 98045

Date(s) Sampled: 06/25/2003

Date Received: 06/25/2003

Date Analyzed: 06/25/2003

Laboratory Report for pH Analysis

Lab Sample No.	Field ID No.	Field Location	pH Results (S.U.)
6007	Effluent	Effluent	7.87

ELAP ID No.: 10958

Comments:

Approved By: _____


Bruce Hoogesteger, Technical Director



PARADIGM

ENVIRONMENTAL SERVICES, INC.

179 Lake Avenue Rochester, New York 14608 (585) 647-2530 FAX (585) 647-3311

LABORATORY REPORT OF ANALYSIS

Client: City of Rochester - DEQ

Lab Project No.: 03-1673

Client Job Site: RFA Monthly Sampling

Client Job No.: DEQ-98045

Sample Type: Water

Analytical Method: EPA 365.2

Date Sampled: 06/20/2003

Date Received: 06/25/2003

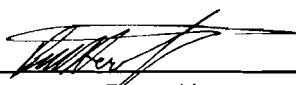
Date Analyzed: 07/01/2003

Lab Sample ID.	Sample Location/Field ID	Total Phosphorus (mg/l)
6007	Effluent	3.20

ELAP ID No. 10709

Comments: ND denotes non-detected.

Approved By Technical Director: _____


Bruce Hoogesteger

Client: **City of Rochester - DEQ**

Lab Project No. 03-1673

Client Job Site: Rochester Fire Academy

Lab Sample No 6007

Monthly Sampling

Sample Type: Water

Client Job No.: DEQ - 98045

Date Sampled: 6/25/03

Field Location: Effluent

Date Received: 6/25/03

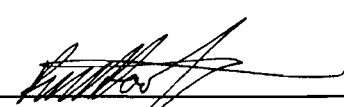
Field ID No.: N/A

Laboratory Report for Metals Analysis

Parameter	Date Analyzed	Analytical Method	Result (mg/L)
Arsenic	06/27/2003	EPA 200.7	0.010
Cadmium	06/27/2003	EPA 200.7	<0.005
Chromium	06/27/2003	EPA 200.7	<0.010
Copper	06/27/2003	EPA 200.7	<0.010
Iron	06/27/2003	EPA 200.7	1.35
Lead	06/27/2003	EPA 200.7	<0.005
Manganese	06/27/2003	EPA 200.7	1.87
Nickel	06/27/2003	EPA 200.7	<0.040
Selenium	06/27/2003	EPA 200.7	<0.005
Zinc	06/27/2003	EPA 200.7	<0.020

ELAP ID No.:10958

Comments:

 Approved By: 

Bruce Hoogesteger, Technical Director

Semi -Volatile Analysis Report for Non-potable Water

Client: City of Rochester - DEQ

Client Job Site:	RFA - Monthly Sampling	Lab Project Number:	03-1673
		Lab Sample Number:	6007
Client Job Number:	N/A	Date Sampled:	06/25/2003
Field Location:	Effluent	Date Received:	06/25/2003
Field ID Number:	N/A	Date Analyzed:	06/27/2003
Sample Type:	Water		

Base / Neutrals	Results in ug / L	Base / Neutrals	Results in ug / L
Acenaphthene	ND< 10.0	Dibenz (a,h) anthracene	ND< 10.0
Anthracene	ND< 10.0	Fluoranthene	ND< 10.0
Benzo (a) anthracene	ND< 10.0	Fluorene	ND< 10.0
Benzo (a) pyrene	ND< 10.0	Indeno (1,2,3-cd) pyrene	ND< 10.0
Benzo (b) fluoranthene	ND< 10.0	Naphthalene	ND< 10.0
Benzo (g,h,i) perylene	ND< 10.0	Phenanthrene	ND< 10.0
Benzo (k) fluoranthene	ND< 10.0	Pyrene	ND< 10.0
Chrysene	ND< 10.0	Acenaphthylene	ND< 10.0
Diethyl phthalate	ND< 10.0	1,2-Dichlorobenzene	ND< 10.0
Dimethyl phthalate	ND< 25.0	1,3-Dichlorobenzene	ND< 10.0
Butylbenzylphthalate	ND< 10.0	1,4-Dichlorobenzene	ND< 10.0
Di-n-butyl phthalate	ND< 10.0	1,2,4-Trichlorobenzene	ND< 10.0
Di-n-octylphthalate	ND< 10.0	Nitrobenzene	ND< 10.0
Bis (2-ethylhexyl) phthalate	ND< 10.0	2,4-Dinitrotoluene	ND< 10.0
2-Chloronaphthalene	ND< 10.0	2,6-Dinitrotoluene	ND< 10.0
Hexachlorobenzene	ND< 10.0	Bis (2-chloroethyl) ether	ND< 10.0
Hexachloroethane	ND< 10.0	Bis (2-chloroisopropyl) ether	ND< 10.0
Hexachlorocyclopentadiene	ND< 10.0	Bis (2-chloroethoxy) methane	ND< 10.0
Hexachlorobutadiene	ND< 10.0	4-Bromophenyl phenyl ether	ND< 10.0
N-Nitroso-di-n-propylamine	ND< 10.0	4-Chlorophenyl phenyl ether	ND< 10.0
N-Nitrosodiphenylamine	ND< 10.0	Benzidine	ND< 25.0
N-Nitrosodimethylamine	ND< 10.0	3,3'-Dichlorobenzidine	ND< 10.0
Isophorone	ND< 10.0		

Acids	Results in ug / L	Acids	Results in ug / L
Phenol	ND< 10.0	2,4-Dimethylphenol	ND< 10.0
2-Chlorophenol	ND< 10.0	2-Nitrophenol	ND< 10.0
2,4-Dichlorophenol	ND< 10.0	4-Nitrophenol	ND< 25.0
2,4,6-Trichlorophenol	ND< 10.0	2,4-Dinitrophenol	ND< 10.0
Pentachlorophenol	ND< 25.0	4,6-Dinitro-2-methylphenol	ND< 25.0
4-Chloro-3-methylphenol	ND< 10.0		

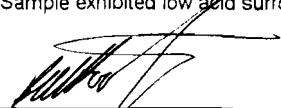
ELAP Number 10958

Method: EPA 625

Data File: 11562.D

Comments: ND denotes Non Detect
 ug / L = microgram per Liter
 Sample exhibited low acid surrogate recoveries. Possible matrix interference.

Signature:


 Bruce Hoogesteger, Technical Director

PCB Analysis Report for Non-potable Water

Client: City of Rochester - DEQ

Client Job Site:	RFA - Monthly Sampling	Lab Project Number:	03-1673
Client Job Number:	N/A	Lab Sample Number:	6007
Field Location:	Effluent	Date Sampled:	06/25/2003
Field ID Number:	N/A	Date Received:	06/25/2003
Sample Type:	Water	Date Analyzed:	07/01/2003

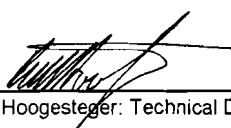
PCB Identification	Results in ug / L
Aroclor 1016	ND< 1.00
Aroclor 1221	ND< 1.00
Aroclor 1232	ND< 1.00
Aroclor 1242	ND< 1.00
Aroclor 1248	ND< 1.00
Aroclor 1254	ND< 1.00
Aroclor 1260	ND< 1.00

ELAP Number 10958

Method: EPA 608

Comments: ND denotes Non Detect
ug / L = microgram per Liter

Signature: _____


Bruce Hoogesteger: Technical Director

Pesticide Analysis Report for Non-potable Water

Client: City of Rochester - DEQ

Client Job Site:	DEQ - Monthly Sampling	Lab Project Number:	03-1673
Client Job Number:	n/A	Lab Sample Number:	6007
Field Location:	Effluent	Date Sampled:	06/25/2003
Field ID Number:	N/A	Date Received:	06/25/2003
Sample Type:	Water	Date Analyzed:	07/01/2003

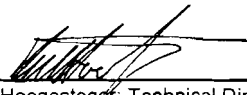
Pesticide Identification	Results in ug / L
Aldrin	ND< 0.100
alpha-BHC	ND< 0.100
beta-BHC	ND< 0.100
delta-BHC	ND< 0.100
gamma-BHC	ND< 0.100
alpha-Chlordane	ND< 0.100
gamma-Chlordane	ND< 0.100
4,4'-DDD	ND< 0.100
4,4'-DDE	ND< 0.200
4,4'-DDT	ND< 0.100
Dieldrin	ND< 0.100
Endosulfan I	ND< 0.100
Endosulfan II	ND< 0.100
Endosulfan Sulfate	ND< 0.100
Endrin	ND< 0.100
Endrin Aldehyde	ND< 0.100
Heptachlor	ND< 0.100
Heptachlor Epoxide	ND< 0.100
Methoxychlor	ND< 0.100
Toxaphene	ND< 5.00

ELAP Number 10958

Method: EPA 608

Comments: ND denotes Non Detect
ug / L = microgram per Liter

Signature: _____


Bruce Hoogesteger, Technical Director

Volatile Analysis Report for Non-potable Water

Client: City of Rochester - DEQ

Client Job Site: RFA - Monthly Sampling

Lab Project Number: 03-1673

Lab Sample Number: 6007

Client Job Number: N/A

Field Location: Effluent

Date Sampled: 06/25/2003

Field ID Number: N/A

Date Received: 06/25/2003

Sample Type: Water

Date Analyzed: 06/30/2003

Halocarbons	Results in ug / L	Halocarbons	Results in ug / L
Bromodichloromethane	ND< 2.00	trans-1,2-Dichloroethene	ND< 2.00
Bromomethane	ND< 2.00	1,2-Dichloropropane	ND< 2.00
Bromoform	ND< 2.00	cis-1,3-Dichloropropene	ND< 2.00
Carbon tetrachloride	ND< 2.00	trans-1,3-Dichloropropene	ND< 2.00
Chloroethane	ND< 2.00	Methylene chloride	ND< 5.00
Chloromethane	ND< 2.00	1,1,2,2-Tetrachloroethane	ND< 2.00
2-Chloroethyl vinyl ether	ND< 2.00	Tetrachloroethene	ND< 2.00
Chloroform	ND< 2.00	1,1,1-Trichloroethane	27.6
Dibromochloromethane	ND< 2.00	1,1,2-Trichloroethane	ND< 2.00
1,1-Dichloroethane	7.71	Trichloroethene	ND< 2.00
1,2-Dichloroethane	4.33	Trichlorofluoromethane	ND< 2.00
1,1-Dichloroethene	ND< 2.00	Vinyl Chloride	ND< 2.00

Aromatics	Results in ug / L	Aromatics	Results in ug / L
Benzene	ND< 0.700	1,2-Dichlorobenzene	ND< 2.00
Chlorobenzene	ND< 2.00	1,3-Dichlorobenzene	ND< 2.00
Ethylbenzene	ND< 2.00	1,4-Dichlorobenzene	ND< 2.00
Toluene	ND< 2.00		

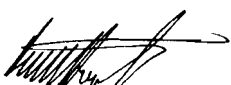
ELAP Number 10958

Method: EPA 601 / 602

Data File: 66029.D

Comments: ND denotes Non Detect
ug / L = microgram per Liter

Signature:


Bruce Hoogesteger, Technical Director

Volatile Analysis Report for Non-potable Water

Client: City of Rochester - DEQ

Client Job Site:	RFA - Monthly Sampling	Lab Project Number:	03-1673
Client Job Number:	N/A	Lab Sample Number:	6007
Field Location:	Effluent	Date Sampled:	06/25/2003
Field ID Number:	N/A	Date Received:	06/25/2003
Sample Type:	Water	Date Analyzed:	06/30/2003

Halocarbons	Results in ug / L
2-Chloroethyl vinyl ether	ND< 2.00

Ketones	Results in ug / L
Acetone	ND< 10.0
2-Butanone	ND< 5.00
2-Hexanone	ND< 5.00
4-Methyl-2-pentanone	ND< 5.00

Aromatics	Results in ug / L
m,p - Xylene	ND< 2.00
o - Xylene	ND< 2.00
Styrene	ND< 2.00

Miscellaneous	Results in ug / L
Carbon disulfide	ND< 5.00
Vinyl acetate	ND< 5.00
Methyl tert-Butyl Alcohol	ND< 2.00

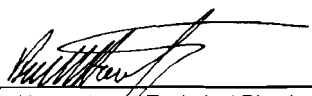
ELAP Number 10958

Method: EPA 8015 Modified

Data File: 66029.D

Comments: ND denotes Non Detect
ug / L = microgram per Liter

Signature: _____


Bruce Hoogesteger, Technical Director

PARADIGM ENVIRONMENTAL SERVICES, INC.

179 Lake Avenue
Rochester, NY 14608
(585) 647-2530 • (800) 724-1997
FAX: (585) 647-3311

CH OF CUSTODY

REPORT TO:

INVOICE TO:

COMPANY: City of Rochester, Dept. of Public Works		COMPANY:		LAB PROJECT #:	CLIENT PROJECT #:
ADDRESS: 107 Church St. Rm 300B		ADDRESS:			
CITY: Rochester	STATE: NY	ZIP: 14614	CITY:	STATE:	ZIP:
PHONE: 425-7892	FAX: 425-6010	PHONE:	FAX:	TURNAROUND TIME: (WORKING DAYS)	
ATTN: Jane Forbes		ATTN:		☐ 1 ☐ 2 ☐ 3 ☒ 5 ☐ OTHER	
PROJECT NAME/SITE NAME: H2O Monthly Sampling		COMMENTS:			

REQUESTED ANALYSIS

DATE	TIME	COMPOSITE	GRAB	SAMPLE LOCATION/FIELD ID	MATRIX	CONUTABINERS	ANALYSIS	REMARKS	PARADIGM LAB SAMPLE NUMBER
6/25/03			X	Effluent	H2O	9	X X X X X X X	As, Fe, Cd, Pb, Cu, Zn, Ni, Mn, Se, Cr	6000
2									
3									
4									
5									
6									
7									
8									
9									
10									

LAB USE ONLY

SAMPLE CONDITION: Check box if acceptable or note deviation:	CONTAINER TYPE: ☒	PRESERVATIONS: ☒	HOLDING TIME: ☒	TEMPERATURE: ☒ 28°
--	---	--	---	--

Sampled By: Jane M. Forbes	Date/Time: 6/25/03 1200	Relinquished By:	Date/Time:	Total Cost:
Relinquished By: [Signature]	Date/Time: 6/25/03 1446	Received By:	Date/Time:	
Received By: [Signature]	Date/Time: 6/25/03 1446	Received @ Lab By:	Date/Time:	P.I.F.

Volatile Analysis Report for Non-potable Water

Client: City of Rochester-DEQ

Client Job Site: RFA Semi-Annual
Well Sampling
Client Job Number: DEQ-98045
Field Location: 6I
Field ID Number: N/A
Sample Type: Water

Lab Project Number: 03-1478
Lab Sample Number: 5354
Date Sampled: 06/06/2003
Date Received: 06/06/2003
Date Analyzed: 06/11/2003

Halocarbons	Results in ug / L	Halocarbons	Results in ug / L
Bromodichloromethane	ND< 2.00	trans-1,2-Dichloroethene	ND< 2.00
Bromomethane	ND< 2.00	1,2-Dichloropropane	ND< 2.00
Bromoform	ND< 2.00	cis-1,3-Dichloropropene	ND< 2.00
Carbon tetrachloride	ND< 2.00	trans-1,3-Dichloropropene	ND< 2.00
Chloroethane	ND< 2.00	Methylene chloride	ND< 5.00
Chloromethane	ND< 2.00	1,1,2,2-Tetrachloroethane	ND< 2.00
2-Chloroethyl vinyl ether	ND< 2.00	Tetrachloroethene	ND< 2.00
Chloroform	ND< 2.00	1,1,1-Trichloroethane	ND< 2.00
Dibromochloromethane	ND< 2.00	1,1,2-Trichloroethane	ND< 2.00
1,1-Dichloroethane	ND< 2.00	Trichloroethene	ND< 2.00
1,2-Dichloroethane	ND< 2.00	Trichlorofluoromethane	ND< 2.00
1,1-Dichloroethene	ND< 2.00	Vinyl Chloride	ND< 2.00

Aromatics	Results in ug / L	Aromatics	Results in ug / L
Benzene	ND< 0.700	1,2-Dichlorobenzene	ND< 2.00
Chlorobenzene	ND< 2.00	1,3-Dichlorobenzene	ND< 2.00
Ethylbenzene	ND< 2.00	1,4-Dichlorobenzene	ND< 2.00
Toluene	ND< 2.00		

ELAP Number 10958

Method: EPA 601 / 602

Data File: 65662.D

Comments: ND denotes Non Detect
ug / L = microgram per Liter

Signature: 
For: Bruce Hoogesteger, Technical Director

Volatile Analysis Report for Non-potable Water

Client: City of Rochester-DEQ

Client Job Site: RFA Semi-Annual
 Well Sampling
Client Job Number: DEQ-98045
Field Location: 7I
Field ID Number: N/A
Sample Type: Water

Lab Project Number: 03-1478
Lab Sample Number: 5355
Date Sampled: 06/06/2003
Date Received: 06/06/2003
Date Analyzed: 06/11/2003

Halocarbons	Results in ug / L	Halocarbons	Results in ug / L
Bromodichloromethane	ND< 2.00	trans-1,2-Dichloroethene	ND< 2.00
Bromomethane	ND< 2.00	1,2-Dichloropropane	ND< 2.00
Bromoform	ND< 2.00	cis-1,3-Dichloropropene	ND< 2.00
Carbon tetrachloride	ND< 2.00	trans-1,3-Dichloropropene	ND< 2.00
Chloroethane	7.81	Methylene chloride	ND< 5.00
Chloromethane	ND< 2.00	1,1,2,2-Tetrachloroethane	ND< 2.00
2-Chloroethyl vinyl ether	ND< 2.00	Tetrachloroethene	ND< 2.00
Chloroform	ND< 2.00	1,1,1-Trichloroethane	126
Dibromochloromethane	ND< 2.00	1,1,2-Trichloroethane	ND< 2.00
1,1-Dichloroethane	227	Trichloroethene	3.84
1,2-Dichloroethane	2.37	Trichlorofluoromethane	ND< 2.00
1,1-Dichloroethene	4.34	Vinyl Chloride	ND< 2.00

Aromatics	Results in ug / L	Aromatics	Results in ug / L
Benzene	ND< 0.700	1,2-Dichlorobenzene	ND< 2.00
Chlorobenzene	ND< 2.00	1,3-Dichlorobenzene	ND< 2.00
Ethylbenzene	ND< 2.00	1,4-Dichlorobenzene	ND< 2.00
Toluene	ND< 2.00		

ELAP Number 10958

Method: EPA 601 / 602

Data File: 65663.D

Comments: ND denotes Non Detect
 ug / L = microgram per Liter

Signature:


 Bruce Hoogesteger: Technical Director

Volatile Analysis Report for Non-potable Water

Client: City of Rochester-DEQ

Client Job Site: RFA Semi-Annual
 Well Sampling
 Client Job Number: DEQ-98045
 Field Location: 7D
 Field ID Number: N/A
 Sample Type: Water

Lab Project Number: 03-1478
 Lab Sample Number: 5356
 Date Sampled: 06/06/2003
 Date Received: 06/06/2003
 Date Analyzed: 06/11/2003

Halocarbons	Results in ug / L	Halocarbons	Results in ug / L
Bromodichloromethane	ND< 2.00	trans-1,2-Dichloroethene	ND< 2.00
Bromomethane	ND< 2.00	1,2-Dichloropropane	ND< 2.00
Bromoform	ND< 2.00	cis-1,3-Dichloropropene	ND< 2.00
Carbon tetrachloride	ND< 2.00	trans-1,3-Dichloropropene	ND< 2.00
Chloroethane	ND< 2.00	Methylene chloride	ND< 5.00
Chloromethane	ND< 2.00	1,1,2,2-Tetrachloroethane	ND< 2.00
2-Chloroethyl vinyl ether	ND< 2.00	Tetrachloroethene	ND< 2.00
Chloroform	ND< 2.00	1,1,1-Trichloroethane	ND< 2.00
Dibromochloromethane	ND< 2.00	1,1,2-Trichloroethane	ND< 2.00
1,1-Dichloroethane	ND< 2.00	Trichloroethene	ND< 2.00
1,2-Dichloroethane	ND< 2.00	Trichlorofluoromethane	ND< 2.00
1,1-Dichloroethene	ND< 2.00	Vinyl Chloride	ND< 2.00

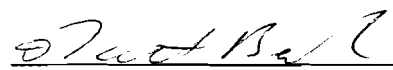
Aromatics	Results in ug / L	Aromatics	Results in ug / L
Benzene	ND< 0.700	1,2-Dichlorobenzene	ND< 2.00
Chlorobenzene	ND< 2.00	1,3-Dichlorobenzene	ND< 2.00
Ethylbenzene	ND< 2.00	1,4-Dichlorobenzene	ND< 2.00
Toluene	ND< 2.00		

ELAP Number 10958

Method: EPA 601 / 602

Data File: 65664.D

Comments: ND denotes Non Detect
 ug / L = microgram per Liter

Signature: 
 For: Bruce Hoogesteger, Technical Director

Volatile Analysis Report for Non-potable Water

Client: City of Rochester-DEQ

Client Job Site: RFA Semi-Annual
 Well Sampling
 Client Job Number: DEQ-98045
 Field Location: 7S
 Field ID Number: N/A
 Sample Type: Water

Lab Project Number: 03-1478
 Lab Sample Number: 5357
 Date Sampled: 06/06/2003
 Date Received: 06/06/2003
 Date Analyzed: 06/13/2003

Halocarbons	Results in ug / L	Halocarbons	Results in ug / L
Bromodichloromethane	ND< 20.0	trans-1,2-Dichloroethene	ND< 20.0
Bromomethane	ND< 20.0	1,2-Dichloropropane	ND< 20.0
Bromoform	ND< 20.0	cis-1,3-Dichloropropene	ND< 20.0
Carbon tetrachloride	ND< 20.0	trans-1,3-Dichloropropene	ND< 20.0
Chloroethane	ND< 20.0	Methylene chloride	ND< 50.0
Chloromethane	ND< 20.0	1,1,2,2-Tetrachloroethane	ND< 20.0
2-Chloroethyl vinyl ether	ND< 20.0	Tetrachloroethene	ND< 20.0
Chloroform	ND< 20.0	1,1,1-Trichloroethane	1,960
Dibromochloromethane	ND< 20.0	1,1,2-Trichloroethane	ND< 20.0
1,1-Dichloroethane	195	Trichloroethene	ND< 20.0
1,2-Dichloroethane	ND< 20.0	Trichlorofluoromethane	ND< 20.0
1,1-Dichloroethene	26.9	Vinyl Chloride	ND< 20.0

Aromatics	Results in ug / L	Aromatics	Results in ug / L
Benzene	ND< 7.00	1,2-Dichlorobenzene	ND< 20.0
Chlorobenzene	ND< 20.0	1,3-Dichlorobenzene	ND< 20.0
Ethylbenzene	119	1,4-Dichlorobenzene	ND< 20.0
Toluene	162		

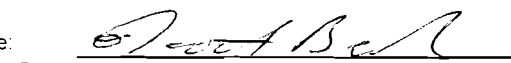
ELAP Number 10958

Method: EPA 601 / 602

Data File: 65712.D

Comments: ND denotes Non Detect
 ug / L = microgram per Liter

Signature:


 For: Bruce Hoogesteger: Technical Director

Volatile Analysis Report for Non-potable Water

Client: City of Rochester-DEQ

Client Job Site: RFA Semi-Annual
Well Sampling
Client Job Number: DEQ-98045
Field Location: 8I
Field ID Number: N/A
Sample Type: Water

Lab Project Number: 03-1478
Lab Sample Number: 5358
Date Sampled: 06/06/2003
Date Received: 06/06/2003
Date Analyzed: 06/11/2003

Halocarbons	Results in ug / L	Halocarbons	Results in ug / L
Bromodichloromethane	ND< 2.00	trans-1,2-Dichloroethene	ND< 2.00
Bromomethane	ND< 2.00	1,2-Dichloropropane	ND< 2.00
Bromoform	ND< 2.00	cis-1,3-Dichloropropene	ND< 2.00
Carbon tetrachloride	ND< 2.00	trans-1,3-Dichloropropene	ND< 2.00
Chloroethane	ND< 2.00	Methylene chloride	ND< 5.00
Chloromethane	ND< 2.00	1,1,2,2-Tetrachloroethane	ND< 2.00
2-Chloroethyl vinyl ether	ND< 2.00	Tetrachloroethene	ND< 2.00
Chloroform	ND< 2.00	1,1,1-Trichloroethane	2.33
Dibromochloromethane	ND< 2.00	1,1,2-Trichloroethane	ND< 2.00
1,1-Dichloroethane	3.86	Trichloroethene	ND< 2.00
1,2-Dichloroethane	ND< 2.00	Trichlorofluoromethane	ND< 2.00
1,1-Dichloroethene	ND< 2.00	Vinyl Chloride	57.9

Aromatics	Results in ug / L	Aromatics	Results in ug / L
Benzene	ND< 0.700	1,2-Dichlorobenzene	ND< 2.00
Chlorobenzene	ND< 2.00	1,3-Dichlorobenzene	ND< 2.00
Ethylbenzene	ND< 2.00	1,4-Dichlorobenzene	ND< 2.00
Toluene	ND< 2.00		

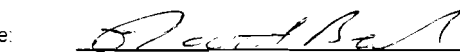
ELAP Number 10958

Method: EPA 601 / 602

Data File: 65666.D

Comments: ND denotes Non Detect
ug / L = microgram per Liter

Signature:


 for Bruce Hoogesteger, Technical Director

Volatile Analysis Report for Non-potable Water

Client: City of Rochester-DEQ

Client Job Site: RFA Semi-Annual
 Well Sampling
Client Job Number: DEQ-98045
Field Location: 9D
Field ID Number: N/A
Sample Type: Water

Lab Project Number: 03-1478
Lab Sample Number: 5359
Date Sampled: 06/06/2003
Date Received: 06/06/2003
Date Analyzed: 06/11/2003

Halocarbons	Results in ug / L	Halocarbons	Results in ug / L
Bromodichloromethane	ND< 2.00	trans-1,2-Dichloroethene	ND< 2.00
Bromomethane	ND< 2.00	1,2-Dichloropropane	ND< 2.00
Bromoform	ND< 2.00	cis-1,3-Dichloropropene	ND< 2.00
Carbon tetrachloride	ND< 2.00	trans-1,3-Dichloropropene	ND< 2.00
Chloroethane	ND< 2.00	Methylene chloride	ND< 5.00
Chloromethane	ND< 2.00	1,1,2,2-Tetrachloroethane	ND< 2.00
2-Chloroethyl vinyl ether	ND< 2.00	Tetrachloroethene	ND< 2.00
Chloroform	ND< 2.00	1,1,1-Trichloroethane	ND< 2.00
Dibromochloromethane	ND< 2.00	1,1,2-Trichloroethane	ND< 2.00
1,1-Dichloroethane	ND< 2.00	Trichloroethene	ND< 2.00
1,2-Dichloroethane	ND< 2.00	Trichlorofluoromethane	ND< 2.00
1,1-Dichloroethene	ND< 2.00	Vinyl Chloride	ND< 2.00

Aromatics	Results in ug / L	Aromatics	Results in ug / L
Benzene	ND< 0.700	1,2-Dichlorobenzene	ND< 2.00
Chlorobenzene	ND< 2.00	1,3-Dichlorobenzene	ND< 2.00
Ethylbenzene	ND< 2.00	1,4-Dichlorobenzene	ND< 2.00
Toluene	ND< 2.00		

ELAP Number 10958

Method: EPA 601 / 602

Data File: 65667.D

Comments: ND denotes Non Detect
 ug / L = microgram per Liter

Signature: 
 For: Bruce Hoogesteger: Technical Director

Volatile Analysis Report for Non-potable Water

Client: City of Rochester-DEQ

Client Job Site: RFA Semi-Annual
 Well Sampling
Client Job Number: DEQ-98045
Field Location: 10I
Field ID Number: N/A
Sample Type: Water

Lab Project Number: 03-1478
Lab Sample Number: 5360
Date Sampled: 06/06/2003
Date Received: 06/06/2003
Date Analyzed: 06/11/2003

Halocarbons	Results in ug / L	Halocarbons	Results in ug / L
Bromodichloromethane	ND< 2.00	trans-1,2-Dichloroethene	ND< 2.00
Bromomethane	ND< 2.00	1,2-Dichloropropane	ND< 2.00
Bromoform	ND< 2.00	cis-1,3-Dichloropropene	ND< 2.00
Carbon tetrachloride	ND< 2.00	trans-1,3-Dichloropropene	ND< 2.00
Chloroethane	ND< 2.00	Methylene chloride	ND< 5.00
Chloromethane	ND< 2.00	1,1,2,2-Tetrachloroethane	ND< 2.00
2-Chloroethyl vinyl ether	ND< 2.00	Tetrachloroethene	ND< 2.00
Chloroform	ND< 2.00	1,1,1-Trichloroethane	ND< 2.00
Dibromochloromethane	ND< 2.00	1,1,2-Trichloroethane	ND< 2.00
1,1-Dichloroethane	ND< 2.00	Trichloroethene	ND< 2.00
1,2-Dichloroethane	ND< 2.00	Trichlorofluoromethane	ND< 2.00
1,1-Dichloroethene	ND< 2.00	Vinyl Chloride	ND< 2.00

Aromatics	Results in ug / L	Aromatics	Results in ug / L
Benzene	ND< 0.700	1,2-Dichlorobenzene	ND< 2.00
Chlorobenzene	ND< 2.00	1,3-Dichlorobenzene	ND< 2.00
Ethylbenzene	ND< 2.00	1,4-Dichlorobenzene	ND< 2.00
Toluene	ND< 2.00		

ELAP Number 10958

Method: EPA 601 / 602

Data File: 65668.D

Comments: ND denotes Non Detect
 ug / L = microgram per Liter

Signature:


 Bruce Hoogesteger: Technical Director

Volatile Analysis Report for Non-potable Water

Client: City of Rochester-DEQ

Client Job Site: RFA Semi-Annual
 Well Sampling
Client Job Number: DEQ-98045
Field Location: 10S
Field ID Number: N/A
Sample Type: Water

Lab Project Number: 03-1478
Lab Sample Number: 5361
Date Sampled: 06/06/2003
Date Received: 06/06/2003
Date Analyzed: 06/11/2003

Halocarbons	Results in ug / L	Halocarbons	Results in ug / L
Bromodichloromethane	ND< 2.00	trans-1,2-Dichloroethene	ND< 2.00
Bromomethane	ND< 2.00	1,2-Dichloropropane	ND< 2.00
Bromoform	ND< 2.00	cis-1,3-Dichloropropene	ND< 2.00
Carbon tetrachloride	ND< 2.00	trans-1,3-Dichloropropene	ND< 2.00
Chloroethane	ND< 2.00	Methylene chloride	ND< 5.00
Chloromethane	ND< 2.00	1,1,2,2-Tetrachloroethane	ND< 2.00
2-Chloroethyl vinyl ether	ND< 2.00	Tetrachloroethene	ND< 2.00
Chloroform	ND< 2.00	1,1,1-Trichloroethane	ND< 2.00
Dibromochloromethane	ND< 2.00	1,1,2-Trichloroethane	ND< 2.00
1,1-Dichloroethane	ND< 2.00	Trichloroethene	ND< 2.00
1,2-Dichloroethane	ND< 2.00	Trichlorofluoromethane	ND< 2.00
1,1-Dichloroethene	ND< 2.00	Vinyl Chloride	ND< 2.00

Aromatics	Results in ug / L	Aromatics	Results in ug / L
Benzene	ND< 0.700	1,2-Dichlorobenzene	ND< 2.00
Chlorobenzene	ND< 2.00	1,3-Dichlorobenzene	ND< 2.00
Ethylbenzene	ND< 2.00	1,4-Dichlorobenzene	ND< 2.00
Toluene	ND< 2.00		

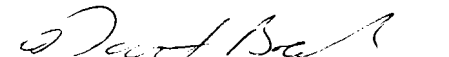
ELAP Number 10958

Method: EPA 601 / 602

Data File: 65669.D

Comments: ND denotes Non Detect
 ug / L = microgram per Liter

Signature:


 For: Bruce Hoogesteger: Technical Director

Volatile Analysis Report for Non-potable Water

Client: City of Rochester-DEQ

Client Job Site: RFA Semi-Annual
 Well Sampling
Client Job Number: DEQ-98045
Field Location: 11I
Field ID Number: N/A
Sample Type: Water

Lab Project Number: 03-1478
Lab Sample Number: 5362
Date Sampled: 06/06/2003
Date Received: 06/06/2003
Date Analyzed: 06/11/2003

Halocarbons	Results in ug / L	Halocarbons	Results in ug / L
Bromodichloromethane	ND< 2.00	trans-1,2-Dichloroethene	ND< 2.00
Bromomethane	ND< 2.00	1,2-Dichloropropane	ND< 2.00
Bromoform	ND< 2.00	cis-1,3-Dichloropropene	ND< 2.00
Carbon tetrachloride	ND< 2.00	trans-1,3-Dichloropropene	ND< 2.00
Chloroethane	ND< 2.00	Methylene chloride	ND< 5.00
Chloromethane	ND< 2.00	1,1,2,2-Tetrachloroethane	ND< 2.00
2-Chloroethyl vinyl ether	ND< 2.00	Tetrachloroethene	ND< 2.00
Chloroform	ND< 2.00	1,1,1-Trichloroethane	ND< 2.00
Dibromochloromethane	ND< 2.00	1,1,2-Trichloroethane	ND< 2.00
1,1-Dichloroethane	ND< 2.00	Trichloroethene	ND< 2.00
1,2-Dichloroethane	ND< 2.00	Trichlorofluoromethane	ND< 2.00
1,1-Dichloroethene	ND< 2.00	Vinyl Chloride	61.1

Aromatics	Results in ug / L	Aromatics	Results in ug / L
Benzene	ND< 0.700	1,2-Dichlorobenzene	ND< 2.00
Chlorobenzene	ND< 2.00	1,3-Dichlorobenzene	ND< 2.00
Ethylbenzene	ND< 2.00	1,4-Dichlorobenzene	ND< 2.00
Toluene	ND< 2.00		

ELAP Number 10958

Method: EPA 601 / 602

Data File: 65670.D

Comments: ND denotes Non Detect
 ug / L = microgram per Liter

Signature:


 Bruce Hoogesteger: Technical Director

Volatile Analysis Report for Non-potable Water

 Client: City of Rochester-DEQ

Client Job Site: RFA Semi-Annual
 Well Sampling
 Client Job Number: DEQ-98045
 Field Location: 15S
 Field ID Number: N/A
 Sample Type: Water

Lab Project Number: 03-1478
 Lab Sample Number: 5362B
 Date Sampled: 06/06/2003
 Date Received: 06/06/2003
 Date Analyzed: 06/11/2003

Halocarbons	Results in ug / L	Halocarbons	Results in ug / L
Bromodichloromethane	ND< 2.00	trans-1,2-Dichloroethene	ND< 2.00
Bromomethane	ND< 2.00	1,2-Dichloropropane	ND< 2.00
Bromoform	ND< 2.00	cis-1,3-Dichloropropene	ND< 2.00
Carbon tetrachloride	ND< 2.00	trans-1,3-Dichloropropene	ND< 2.00
Chloroethane	ND< 2.00	Methylene chloride	ND< 5.00
Chloromethane	ND< 2.00	1,1,2,2-Tetrachloroethane	ND< 2.00
2-Chloroethyl vinyl ether	ND< 2.00	Tetrachloroethene	ND< 2.00
Chloroform	ND< 2.00	1,1,1-Trichloroethane	ND< 2.00
Dibromochloromethane	ND< 2.00	1,1,2-Trichloroethane	ND< 2.00
1,1-Dichloroethane	ND< 2.00	Trichloroethene	ND< 2.00
1,2-Dichloroethane	3.18	Trichlorofluoromethane	ND< 2.00
1,1-Dichloroethene	ND< 2.00	Vinyl Chloride	10.1

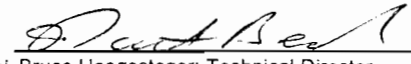
Aromatics	Results in ug / L	Aromatics	Results in ug / L
Benzene	63.4	1,2-Dichlorobenzene	ND< 2.00
Chlorobenzene	ND< 2.00	1,3-Dichlorobenzene	ND< 2.00
Ethylbenzene	ND< 2.00	1,4-Dichlorobenzene	ND< 2.00
Toluene	ND< 2.00		

ELAP Number 10958

Method: EPA 601 / 602

Data File: 65672.D

Comments: ND denotes Non Detect
 ug / L = microgram per Liter

Signature: 
 For: Bruce Hoogesteger: Technical Director

PARA IGM ENVIRONMENTAL SERVICES, INC.

179 Lake Avenue
Rochester, NY 14608
(585) 647-2530 • (800) 724-1997
FAX: (585) 647-3311

CH OF CUSTODY

REPORT TO:

INVOICE TO:

COMPANY: City of Rochester - DEC		COMPANY:		LAB PROJECT #: 03-1478	CLIENT PROJECT #:
ADDRESS: 30 Church St. Rm 300B		ADDRESS:			
CITY: Rochester	STATE: NY	CITY:	STATE:	ZIP:	
PHONE: 428-7892	FAX: 428-6010	PHONE:	FAX:		
ATTN: Jane Forbes		ATTN:			
COMMENTS:					

PROJECT NAME/SITE NAME:
KFA - Semi Annual
Well Sampling

DEC-98045

REQUESTED ANALYSIS

DATE	TIME	COMPOSITE	GRAB	SAMPLE LOCATION/FIELD ID	MATRIX	CONTAINER														REMARKS	PARADIGM LAB SAMPLE NUMBER
1 6/6/03	1115		X	6 I	H ₂ O	2	X														5354
2	1056		X	7 I		2	X														5355
3	1102		X	7 D		2	X														5356
4	1059		X	7 S		2	X														5357
5	1146		X	8 I		2	X														5358
6	1045		X	9 D		2	X														5359
7	1130		X	10 I		2	X														5360
8	1133		X	10 S		2	X														5361
9	1141		X	11 I		2	X														5362
10	1151		X	15 S		2	X														5363

LAB USE ONLY

SAMPLE CONDITION: Check box
if acceptable or note deviation:

CONTAINER TYPE: ☒

PRESERVATIONS: ☒

HOLDING TIME: ☒

TEMPERATURE: ☒ 24°C

Sampled By:

Date/Time:

Relinquished By:

Date/Time:

Received By:

Date/Time:

Relinquished By:

Date/Time:

Received By:

Date/Time:

Received @ Lab By:

Date/Time:

Total Cost:

P.I.F.



PARADIGM

ENVIRONMENTAL SERVICES, INC.

179 Lake Avenue Rochester, New York 14608 (585) 647-2530 FAX (585) 647-3311

LABORATORY REPORT OF ANALYSIS

Client: City of Rochester **Lab Project No.:** 03-1925

Client Job Site: RFA - Monthly Sampling **Sample Type:** Water

Client Job No.: DEQ-98045 **Analytical Method:** EPA 365.2

Date Sampled: 07/18/2003

Date Received: 07/18/2003

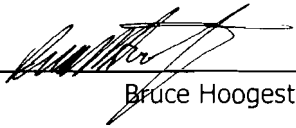
Date Analyzed: 07/22/2003

Lab Sample ID.	Sample Location/Field ID	Total Phosphorus (mg/l)
6801	Effluent	1.40

ELAP ID No. 10709

Comments: ND denotes non-detected.

Approved By Technical Director: _____


Bruce Hoogesteger

**PARADIGM****ENVIRONMENTAL SERVICES, INC.**

179 Lake Avenue, Rochester, NY 14608 (585) 647-2530 FAX (585) 647-3311

Client: City of Rochester - DEQ

Lab Project No.: 03-1925

Lab Sample No.: 6801

Client Job Site: Rochester Fire Academy

Monthly Sampling

Sample Type: Water

Client Job No.: DEQ - 98045

Date Sampled: 7/18/03

Field Location: Effluent

Date Received: 7/18/03

Field ID No.: N/A

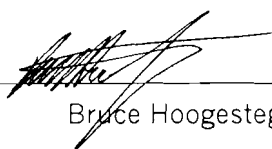
Laboratory Report for Metals Analysis

Parameter	Date Analyzed	Analytical Method	Result (mg/L)
Arsenic	07/22/2003	EPA 200.7	0.005
Cadmium	07/22/2003	EPA 200.7	<0.005
Chromium	07/22/2003	EPA 200.7	<0.010
Copper	07/22/2003	EPA 200.7	<0.010
Iron	07/22/2003	EPA 200.7	0.815
Lead	07/22/2003	EPA 200.7	<0.005
Manganese	07/22/2003	EPA 200.7	0.572
Nickel	07/22/2003	EPA 200.7	<0.040
Selenium	07/22/2003	EPA 200.7	<0.005
Zinc	07/22/2003	EPA 200.7	<0.020

ELAP ID No.:10958

Comments:

Approved By: _____


Bruce Hoogesteger, Technical Director

PCB Analysis Report for Non-potable Water

Client: City of Rochester

Client Job Site:	RFA - Monthly Sampling	Lab Project Number:	03-1925
		Lab Sample Number:	6801
Client Job Number:	DEQ-98045		
Field Location:	Effluent	Date Sampled:	07/18/2003
Field ID Number:	N/A	Date Received:	07/18/2003
Sample Type:	Water	Date Analyzed:	07/23/2003

PCB Identification	Results in ug / L
Aroclor 1016	ND< 1.00
Aroclor 1221	ND< 1.00
Aroclor 1232	ND< 1.00
Aroclor 1242	ND< 1.00
Aroclor 1248	ND< 1.00
Aroclor 1254	ND< 1.00
Aroclor 1260	ND< 1.00

ELAP Number 10958

Method: EPA 608

Comments: ND denotes Non Detect
ug / L = microgram per Liter

Signature:


Bruce Hoogesteger, Technical Director

Pesticide Analysis Report for Non-potable Water

Client: City of Rochester

Client Job Site:	RFA - Monthly Sampling	Lab Project Number:	03-1925
Client Job Number:	DEQ-98045	Lab Sample Number:	6801
Field Location:	Wffluwnt	Date Sampled:	07/18/2003
Field ID Number:	N/A	Date Received:	07/18/2003
Sample Type:	Water	Date Analyzed:	07/22/2003

Pesticide Identification	Results in ug / L
Aldrin	ND< 0.100
alpha-BHC	ND< 0.100
beta-BHC	ND< 0.100
delta-BHC	ND< 0.100
gamma-BHC	ND< 0.100
alpha-Chlordane	ND< 0.100
gamma-Chlordane	ND< 0.100
4,4'-DDD	ND< 0.100
4,4'-DDE	ND< 0.200
4,4'-DDT	ND< 0.100
Dieldrin	ND< 0.100
Endosulfan I	ND< 0.100
Endosulfan II	ND< 0.100
Endosulfan Sulfate	ND< 0.100
Endrin	ND< 0.100
Endrin Aldehyde	ND< 0.100
Heptachlor	ND< 0.100
Heptachlor Epoxide	ND< 0.100
Methoxychlor	ND< 0.100
Toxaphene	ND< 5.00

ELAP Number 10958

Method: EPA 608

Comments: ND denotes Non Detect
ug / L = microgram per Liter

Signature: _____


Bruce Hoogesteger, Technical Director

Semi -Volatile Analysis Report for Non-potable Water

Client: City of Rochester

Client Job Site:	RFA - Monthly Sampling	Lab Project Number:	03-1925
		Lab Sample Number:	6801
Client Job Number:	DEQ-98045	Date Sampled:	07/18/2003
Field Location:	Effluent	Date Received:	07/18/2003
Field ID Number:	N/A	Date Analyzed:	07/22/2003
Sample Type:	Water		

Base / Neutrals	Results in ug / L	Base / Neutrals	Results in ug / L
Acenaphthene	ND< 10.0	Dibenz (a,h) anthracene	ND< 10.0
Anthracene	ND< 10.0	Fluoranthene	ND< 10.0
Benzo (a) anthracene	ND< 10.0	Fluorene	ND< 10.0
Benzo (a) pyrene	ND< 10.0	Indeno (1,2,3-cd) pyrene	ND< 10.0
Benzo (b) fluoranthene	ND< 10.0	Naphthalene	ND< 10.0
Benzo (g,h,i) perylene	ND< 10.0	Phenanthrene	ND< 10.0
Benzo (k) fluoranthene	ND< 10.0	Pyrene	ND< 10.0
Chrysene	ND< 10.0	Acenaphthylene	ND< 10.0
Diethyl phthalate	12.7	1,2-Dichlorobenzene	ND< 10.0
Dimethyl phthalate	ND< 25.0	1,3-Dichlorobenzene	ND< 10.0
Butylbenzylphthalate	ND< 10.0	1,4-Dichlorobenzene	ND< 10.0
Di-n-butyl phthalate	ND< 10.0	1,2,4-Trichlorobenzene	ND< 10.0
Di-n-octylphthalate	ND< 10.0	Nitrobenzene	ND< 10.0
Bis (2-ethylhexyl) phthalate	ND< 10.0	2,4-Dinitrotoluene	ND< 10.0
2-Chloronaphthalene	ND< 10.0	2,6-Dinitrotoluene	ND< 10.0
Hexachlorobenzene	ND< 10.0	Bis (2-chloroethyl) ether	ND< 10.0
Hexachloroethane	ND< 10.0	Bis (2-chloroisopropyl) ether	ND< 10.0
Hexachlorocyclopentadiene	ND< 10.0	Bis (2-chloroethoxy) methane	ND< 10.0
Hexachlorobutadiene	ND< 10.0	4-Bromophenyl phenyl ether	ND< 10.0
N-Nitroso-di-n-propylamine	ND< 10.0	4-Chlorophenyl phenyl ether	ND< 10.0
N-Nitrosodiphenylamine	ND< 10.0	Benzidine	ND< 25.0
N-Nitrosodimethylamine	ND< 10.0	3,3'-Dichlorobenzidine	ND< 10.0
Isophorone	ND< 10.0		

Acids	Results in ug / L	Acids	Results in ug / L
Phenol	ND< 10.0	2,4-Dimethylphenol	ND< 10.0
2-Chlorophenol	ND< 10.0	2-Nitrophenol	ND< 10.0
2,4-Dichlorophenol	ND< 10.0	4-Nitrophenol	ND< 25.0
2,4,6-Trichlorophenol	ND< 10.0	2,4-Dinitrophenol	ND< 10.0
Pentachlorophenol	ND< 25.0	4,6-Dinitro-2-methylphenol	ND< 25.0
4-Chloro-3-methylphenol	ND< 10.0		

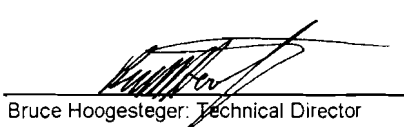
ELAP Number 10958

Method: EPA 625

Data File: 11769.D

Comments: ND denotes Non Detect
 ug / L = microgram per Liter

Signature:


 Bruce Hoogesteger, Technical Director

Volatile Analysis Report for Non-potable Water

Client: City of Rochester

Client Job Site:	RFA - Monthly Sampling	Lab Project Number:	03-1925
Client Job Number:	DEQ-98045	Lab Sample Number:	6801
Field Location:	Effluent	Date Sampled:	07/18/2003
Field ID Number:	N/A	Date Received:	07/18/2003
Sample Type:	Water	Date Analyzed:	07/22/2003

Halocarbons	Results in ug / L
2-Chloroethyl vinyl ether	ND< 2.00

Ketones	Results in ug / L
Acetone	153
2-Butanone	71.3
2-Hexanone	ND< 5.00
4-Methyl-2-pentanone	28.1

ELAP Number 10958

Method: EPA 8015 Modified

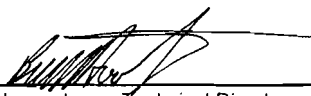
Aromatics	Results in ug / L
m,p - Xylene	ND< 2.00
o - Xylene	ND< 2.00
Styrene	ND< 2.00

Miscellaneous	Results in ug / L
Carbon disulfide	ND< 5.00
Vinyl acetate	ND< 5.00

Data File: 66435.D

Comments: ND denotes Non Detect
ug / L = microgram per Liter

Signature: _____


Bruce Hoogesteger, Technical Director

Volatile Analysis Report for Non-potable Water

Client: City of Rochester

Client Job Site:	RFA - Monthly Sampling	Lab Project Number:	03-1925
		Lab Sample Number:	6801
Client Job Number:	DEQ-98045	Date Sampled:	07/18/2003
Field Location:	Effluent	Date Received:	07/18/2003
Field ID Number:	N/A	Date Analyzed:	07/22/2003
Sample Type:	Water		

Halocarbons	Results in ug / L	Halocarbons	Results in ug / L
Bromodichloromethane	ND< 2.00	trans-1,2-Dichloroethene	ND< 2.00
Bromomethane	ND< 2.00	1,2-Dichloropropane	ND< 2.00
Bromoform	ND< 2.00	cis-1,3-Dichloropropene	ND< 2.00
Carbon tetrachloride	ND< 2.00	trans-1,3-Dichloropropene	ND< 2.00
Chloroethane	ND< 2.00	Methylene chloride	ND< 5.00
Chloromethane	ND< 2.00	1,1,2,2-Tetrachloroethane	ND< 2.00
2-Chloroethyl vinyl ether	ND< 2.00	Tetrachloroethene	ND< 2.00
Chloroform	ND< 2.00	1,1,1-Trichloroethane	29.7
Dibromochloromethane	ND< 2.00	1,1,2-Trichloroethane	ND< 2.00
1,1-Dichloroethane	7.11	Trichloroethene	ND< 2.00
1,2-Dichloroethane	3.93	Trichlorofluoromethane	ND< 2.00
1,1-Dichloroethene	ND< 2.00	Vinyl Chloride	ND< 2.00

Aromatics	Results in ug / L	Aromatics	Results in ug / L
Benzene	ND< 0.700	1,2-Dichlorobenzene	ND< 2.00
Chlorobenzene	ND< 2.00	1,3-Dichlorobenzene	ND< 2.00
Ethylbenzene	ND< 2.00	1,4-Dichlorobenzene	ND< 2.00
Toluene	ND< 2.00		

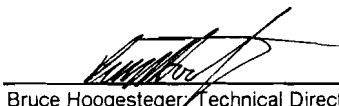
ELAP Number 10958

Method: EPA 601 / 602

Data File: 66435.D

Comments: ND denotes Non Detect
 ug / L = microgram per Liter

Signature:


 Bruce Hoogesteger, Technical Director

PARA IGM ENVIRONMENTAL SERVICES, INC.

179 Lake Avenue
Rochester, NY 14608
(716) 647-2530 * (800) 724-1997
FAX: (716) 647-3311

CHA OF CUSTODY

REPORT TO:

INVOICE TO:

COMPANY: City of Rochester		COMPANY:		LAB PROJECT #: 03 1925	CLIENT PROJECT #:
ADDRESS: 30 Church St Rm 300 B		ADDRESS:			
CITY: Rochester	STATE: NY	CITY:	STATE:	ZIP:	TURNAROUND TIME: (WORKING DAYS)
PHONE: 428-7892	FAX: 428-6010	PHONE:	FAX:		
ATTN: Jane Forbes		ATTN:		☐ 1 ☐ 2 ☐ 3 ☒ 5 ☐ OTHER	

PROJECT NAME/SITE NAME:

EA-Monthly
Sampling Dec 2004

COMMENTS:

8045

REQUESTED ANALYSIS

DATE	TIME	COMPOSITE	GRAB	SAMPLE LOCATION/FIELD ID	MATRIX	CONUTABENERS	601/602	2015	6025	Pest/HBs/608	Chrysophanes	ott	Metals	REMARKS	PARADIGM LAB SAMPLE NUMBER
12/18/03	1350		X	Effluent	H ₂ O	10	X	X	X	X	X	X	X		6801
2															
3															
4															
5															
6															
7															
8															
9															
10															

LAB USE ONLY

SAMPLE CONDITION: Check box if acceptable or note deviation:

CONTAINER TYPE: ☒

PRESERVATIONS: ☒

HOLDING TIME: ☒

TEMPERATURE: ☒ 25C

Sampled By:

Date/Time:

Jane M. Forbes

12/18/03 1350

Relinquished By:

Date/Time:

Total Cost:

Relinquished By:

Date/Time:

Jim D.

12/18/03 1400

Received By:

Date/Time:

Received By:

Date/Time:

Jane M. Forbes

12/18/03 1400

Received @ Lab By:

Date/Time:

Paula M. Link

12/18/03

P.I.F.



PARADIGM

ENVIRONMENTAL SERVICES, INC.

179 Lake Avenue, Rochester, NY 14608 (585) 647-2530 FAX (585) 647-3311

Client: City of Rochester - DEQ

Lab Project No.: 03-2246

Client Job Site: RFA-Qtly-SemiAnnual
Sampling

Sample Type: Water
Method: EPA 150.1

Client Job No.: N/A

Date(s) Sampled: 08/19/2003

Date Received: 08/19/2003

Date Analyzed: 08/19/2003

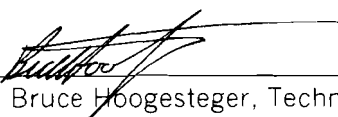
Laboratory Report for pH Analysis

Lab Sample No.	Field ID No.	Field Location	pH Results (S.U.)
7604	N/A	Influent	7.01
7605	N/A	Effluent	7.89

ELAP ID No.: 10958

Comments:

Approved By: _____


Bruce Hoogesteger, Technical Director

Chain of Custody provides additional sample information.

File ID:032246.xls



PARADIGM

ENVIRONMENTAL SERVICES, INC. 179 Lake Avenue Rochester New York 14608 (585) 647-2530 FAX (585) 647-3311

LABORATORY REPORT OF ANALYSIS

Client: City of Rochester

Lab Project No.: 03-2246

Lab Sample No.: 7604

Client Job Site: RFA - Quarterly - Semi-Annual Sampling

Sample Type: Water

Client Job No.: N/A

Date Sampled: 08/19/2003

Field Location: Influent

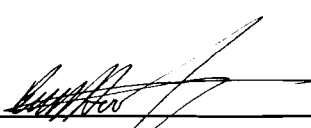
Date Received: 08/19/2003

Parameter	Date Analyzed	Analytical Method	Result (mg/l)
Alkalinity	08/26/2003	EPA 310.1	430

ELAP ID.No.: 10709

Comments: ND denotes Non Detected.

Approved By Technical Director: _____


Bruce Hoogesteger



PARADIGM

ENVIRONMENTAL SERVICES, INC.

179 Lake Avenue Rochester New York 14608 (585) 647-2530 FAX (585) 647-3311

LABORATORY REPORT OF ANALYSIS

Client: City of Rochester

Lab Project No.: 03-2246

Lab Sample No.: 7605

Client Job Site: RFA - Quarterly - Semi-Annual Sampling

Sample Type: Water

Client Job No.: N/A

Date Sampled: 08/19/2003

Field Location: Effluent

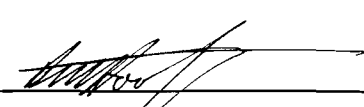
Date Received: 08/19/2003

Parameter	Date Analyzed	Analytical Method	Result (mg/l)
Total Phosphorus	08/21/2003	EPA 365.2	2.90

ELAP ID.No.: 10709

Comments: ND denotes Non Detected.

Approved By Technical Director: _____


Bruce Hoogesteger



179 Lake Avenue, Rochester, NY 14608 (585) 647-2530 FAX (585) 647-3311

Client: City of Rochester - DEQ

Lab Project No.: 03-2246

Client Job Site: RFA-Qtly-SemiAnnual
Sampling

Client Job No.: N/A

Sample Type: Water
Method: EPA 200.7
Date Sampled: 08/19/2003
Date Received: 08/19/2003
Date Analyzed: 08/22/2003

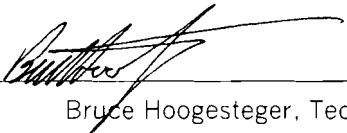
Laboratory Report for Total Hardness

Lab Sample No.:	Field ID	Field Location	Total Hardness (mg/L)
7604	N/A	Influent	535

ELAP ID No.:10958

Comments:

Approved By: _____


Bruce Hoogesteger, Technical Director

Chain of Custody provides additional sample information.

File ID: 032246.xls



Client: **City of Rochester - DEQ**

Lab Project No.: 03-2246

Lab Sample No.: 7604

Client Job Site: RFA-Qtly-SemiAnnual
Sampling

Sample Type: Water

Client Job No.: N/A

Date Sampled: 08/19/2003

Field Location: Influent

Date Received: 08/19/2003

Field ID No.: N/A

Laboratory Report for Water Analysis

Parameter	Date Analyzed	Analytical Method	Result (mg/L)
Arsenic	08/22/2003	EPA 200.7	<0.005
Cadmium	08/22/2003	EPA 200.7	<0.005
Chromium	08/22/2003	EPA 200.7	<0.010
Copper	08/22/2003	EPA 200.7	<0.010
Iron	08/22/2003	EPA 200.7	2.44
Manganese	08/22/2003	EPA 200.7	0.422
Lead	08/22/2003	EPA 200.7	<0.005
Nickel	08/22/2003	EPA 200.7	<0.040
Selenium	08/22/2003	EPA 200.7	<0.005
Zinc	08/22/2003	EPA 200.7	<0.020

ELAP ID No.:10958

Comments:

Approved By: _____


Bruce Hoogesteger, Technical Director

Client: **City of Rochester - DEQ**

Lab Project No.: 03-2246

Lab Sample No.: 7605

 Client Job Site: RFA-Qtly-SemiAnnual
Sampling

Sample Type: Water

Client Job No.: N/A

Date Sampled: 08/19/2003

Field Location: Effluent

Date Received: 08/19/2003

Field ID No.: N/A

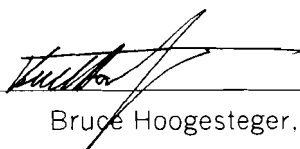
Laboratory Report for Water Analysis

Parameter	Date Analyzed	Analytical Method	Result (mg/L)
Arsenic	08/22/2003	EPA 200.7	0.011
Cadmium	08/22/2003	EPA 200.7	<0.005
Chromium	08/22/2003	EPA 200.7	<0.010
Copper	08/22/2003	EPA 200.7	<0.010
Iron	08/22/2003	EPA 200.7	1.71
Manganese	08/22/2003	EPA 200.7	0.182
Lead	08/22/2003	EPA 200.7	<0.005
Nickel	08/22/2003	EPA 200.7	<0.040
Selenium	08/22/2003	EPA 200.7	<0.005
Zinc	08/22/2003	EPA 200.7	<0.020

ELAP ID No.:10958

Comments:

Approved By:



Bruce Hoogesteger, Technical Director

PCB Analysis Report for Non-potable Water

Client: City of Rochester - DEQ

Client Job Site:	RFA - Qtly Semi-Annual Sampling	Lab Project Number:	03-2246
Client Job Number:	N/A	Lab Sample Number:	7604
Field Location:	Influent	Date Sampled:	08/19/2003
Field ID Number:	N/A	Date Received:	08/19/2003
Sample Type:	Water	Date Analyzed:	08/21/2003

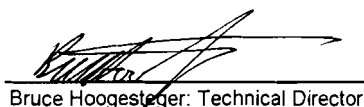
PCB Identification	Results in ug / L
Aroclor 1016	ND< 1.00
Aroclor 1221	ND< 1.00
Aroclor 1232	ND< 1.00
Aroclor 1242	ND< 1.00
Aroclor 1248	ND< 1.00
Aroclor 1254	ND< 1.00
Aroclor 1260	ND< 1.00

ELAP Number 10958

Method: EPA 608

Comments: ND denotes Non Detect
ug / L = microgram per Liter

Signature:


Bruce Hoogesteger: Technical Director

PCB Analysis Report for Non-potable Water

Client: City of Rochester - DEQ

Client Job Site:	RFA - Qtly	Lab Project Number:	03-2246
	Semi-Annual Sampling	Lab Sample Number:	7605
Client Job Number:	N/A		
Field Location:	Effluent	Date Sampled:	08/19/2003
Field ID Number:	N/A	Date Received:	08/19/2003
Sample Type:	Water	Date Analyzed:	08/21/2003

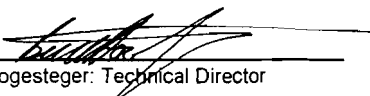
PCB Identification	Results in ug / L
Aroclor 1016	ND< 1.00
Aroclor 1221	ND< 1.00
Aroclor 1232	ND< 1.00
Aroclor 1242	ND< 1.00
Aroclor 1248	ND< 1.00
Aroclor 1254	ND< 1.00
Aroclor 1260	ND< 1.00

ELAP Number 10958

Method: EPA 608

Comments: ND denotes Non Detect
ug / L = microgram per Liter

Signature: _____


Bruce Hoogesteger: Technical Director

Pesticide Analysis Report for Non-potable Water

Client: City of Rochester - DEQ

Client Job Site:	RFA - Qtly	Lab Project Number:	03-2246
	Semi-Annual Sampling	Lab Sample Number:	7604
Client Job Number:	N/A		
Field Location:	Influent	Date Sampled:	08/19/2003
Field ID Number:	N/A	Date Received:	08/19/2003
Sample Type:	Water	Date Analyzed:	08/25/2003

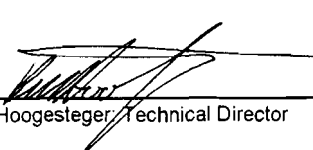
Pesticide Identification	Results in ug / L
Aldrin	ND< 0.100
alpha-BHC	ND< 0.100
beta-BHC	ND< 0.100
delta-BHC	ND< 0.100
gamma-BHC	ND< 0.100
alpha-Chlordane	ND< 0.250
gamma-Chlordane	ND< 0.100
4,4'-DDD	ND< 0.100
4,4'-DDE	ND< 0.200
4,4'-DDT	ND< 0.100
Dieldrin	ND< 0.100
Endosulfan I	ND< 0.100
Endosulfan II	ND< 0.100
Endosulfan Sulfate	ND< 0.100
Endrin	ND< 0.100
Endrin Aldehyde	ND< 0.100
Heptachlor	ND< 0.100
Heptachlor Epoxide	ND< 0.100
Methoxychlor	ND< 0.100
Toxaphene	ND< 5.00

ELAP Number 10958

Method: EPA 608

Comments: ND denotes Non Detect
ug / L = microgram per Liter

Signature: _____


Bruce Hoogesteger, Technical Director

Pesticide Analysis Report for Non-potable Water

Client: City of Rochester - DEQ

Client Job Site:	RFA - Qtly Semi-Annual Sampling	Lab Project Number:	03-2246
Client Job Number:	N/A	Lab Sample Number:	7605
Field Location:	Effluent	Date Sampled:	08/19/2003
Field ID Number:	N/A	Date Received:	08/19/2003
Sample Type:	Water	Date Analyzed:	08/25/2003

Pesticide Identification	Results in ug / L
Aldrin	ND< 0.100
alpha-BHC	ND< 0.100
beta-BHC	ND< 0.100
delta-BHC	ND< 0.100
gamma-BHC	ND< 0.100
alpha-Chlordane	ND< 0.250
gamma-Chlordane	ND< 0.100
4,4'-DDD	ND< 0.100
4,4'-DDE	ND< 0.200
4,4'-DDT	ND< 0.100
Dieldrin	ND< 0.100
Endosulfan I	ND< 0.100
Endosulfan II	ND< 0.100
Endosulfan Sulfate	ND< 0.100
Endrin	ND< 0.100
Endrin Aldehyde	ND< 0.100
Heptachlor	ND< 0.100
Heptachlor Epoxide	ND< 0.100
Methoxychlor	ND< 0.100
Toxaphene	ND< 5.00

ELAP Number 10958

Method: EPA 608

Comments: ND denotes Non Detect
ug / L = microgram per Liter

Signature: _____


Bruce Hoogesteger: Technical Director

Semi -Volatile Analysis Report for Non-potable Water

Client: City of Rochester - DEQ

Client Job Site:	RFA-Qtly-SemiAnnual Sampling	Lab Project Number:	03-2246
Client Job Number:	N/A	Lab Sample Number:	7605
Field Location:	Effluent	Date Sampled:	08/19/2003
Field ID Number:	N/A	Date Received:	08/19/2003
Sample Type:	Water	Date Analyzed:	08/21/2003

Base / Neutrals	Results in ug / L	Base / Neutrals	Results in ug / L
Acenaphthene	ND< 10.0	Dibenz (a,h) anthracene	ND< 10.0
Anthracene	ND< 10.0	Fluoranthene	ND< 10.0
Benzo (a) anthracene	ND< 10.0	Fluorene	ND< 10.0
Benzo (a) pyrene	ND< 10.0	Indeno (1,2,3-cd) pyrene	ND< 10.0
Benzo (b) fluoranthene	ND< 10.0	Naphthalene	ND< 10.0
Benzo (g,h,i) perylene	ND< 10.0	Phenanthrene	ND< 10.0
Benzo (k) fluoranthene	ND< 10.0	Pyrene	ND< 10.0
Chrysene	ND< 10.0	Acenaphthylene	ND< 10.0
Diethyl phthalate	20.3	1,2-Dichlorobenzene	ND< 10.0
Dimethyl phthalate	ND< 25.0	1,3-Dichlorobenzene	ND< 10.0
Butylbenzylphthalate	ND< 10.0	1,4-Dichlorobenzene	ND< 10.0
Di-n-butyl phthalate	ND< 10.0	1,2,4-Trichlorobenzene	ND< 10.0
Di-n-octylphthalate	ND< 10.0	Nitrobenzene	ND< 10.0
Bis (2-ethylhexyl) phthalate	ND< 10.0	2,4-Dinitrotoluene	ND< 10.0
2-Chloronaphthalene	ND< 10.0	2,6-Dinitrotoluene	ND< 10.0
Hexachlorobenzene	ND< 10.0	Bis (2-chloroethyl) ether	ND< 10.0
Hexachloroethane	ND< 10.0	Bis (2-chloroisopropyl) ether	ND< 10.0
Hexachlorocyclopentadiene	ND< 10.0	Bis (2-chloroethoxy) methane	ND< 10.0
Hexachlorobutadiene	ND< 10.0	4-Bromophenyl phenyl ether	ND< 10.0
N-Nitroso-di-n-propylamine	ND< 10.0	4-Chlorophenyl phenyl ether	ND< 10.0
N-Nitrosodiphenylamine	ND< 10.0	Benzidine	ND< 25.0
N-Nitrosodimethylamine	ND< 10.0	3,3'-Dichlorobenzidine	ND< 10.0
Isophorone	ND< 10.0		

Acids	Results in ug / L	Acids	Results in ug / L
Phenol	ND< 10.0	2,4-Dimethylphenol	ND< 10.0
2-Chlorophenol	ND< 10.0	2-Nitrophenol	ND< 10.0
2,4-Dichlorophenol	ND< 10.0	4-Nitrophenol	ND< 25.0
2,4,6-Trichlorophenol	ND< 10.0	2,4-Dinitrophenol	ND< 10.0
Pentachlorophenol	ND< 25.0	4,6-Dinitro-2-methylphenol	ND< 25.0
4-Chloro-3-methylphenol	ND< 10.0		

ELAP Number 10958

Method: EPA 625

Data File: 12128.D

Comments: ND denotes Non Detect
 ug / L = microgram per Liter

Signature:


 Bruce Hoogesteger: Technical Director

Volatile Analysis Report for Non-potable Water

Client: City of Rochester - DEQ

Client Job Site:	RFA-Qtly-SemiAnnual Sampling	Lab Project Number:	03-2246
Client Job Number:	N/A	Lab Sample Number:	7604
Field Location:	Influent	Date Sampled:	08/19/2003
Field ID Number:	N/A	Date Received:	08/19/2003
Sample Type:	Water	Date Analyzed:	08/22/2003

Halocarbons	Results in ug / L	Halocarbons	Results in ug / L
Bromodichloromethane	ND< 1,000	trans-1,2-Dichloroethene	ND< 1,000
Bromomethane	ND< 1,000	1,2-Dichloropropane	ND< 1,000
Bromoform	ND< 1,000	cis-1,3-Dichloropropene	ND< 1,000
Carbon tetrachloride	ND< 1,000	trans-1,3-Dichloropropene	ND< 1,000
Chloroethane	ND< 1,000	Methylene chloride	ND< 2,500
Chloromethane	ND< 1,000	1,1,2,2-Tetrachloroethane	ND< 1,000
2-Chloroethyl vinyl ether	ND< 1,000	Tetrachloroethene	ND< 1,000
Chloroform	ND< 1,000	1,1,1-Trichloroethane	20,600
Dibromochloromethane	ND< 1,000	1,1,2-Trichloroethane	ND< 1,000
1,1-Dichloroethane	2,800	Trichloroethene	1,920
1,2-Dichloroethane	ND< 1,000	Trichlorofluoromethane	ND< 1,000
1,1-Dichloroethene	ND< 1,000	Vinyl Chloride	ND< 1,000

Aromatics	Results in ug / L	Aromatics	Results in ug / L
Benzene	ND< 350	1,2-Dichlorobenzene	ND< 1,000
Chlorobenzene	ND< 1,000	1,3-Dichlorobenzene	ND< 1,000
Ethylbenzene	ND< 1,000	1,4-Dichlorobenzene	ND< 1,000
Toluene	2,390		

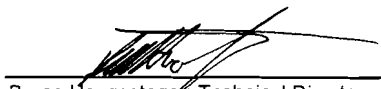
ELAP Number 10958

Method: EPA 601 / 602

Data File: 66864.D

Comments: ND denotes Non Detect
 ug / L = microgram per Liter

Signature:


 Bruce Hoogesteger, Technical Director

Volatile Analysis Report for Non-potable Water

Client: City of Rochester - DEQ

Client Job Site:	RFA-Qtly-SemiAnnual Sampling	Lab Project Number:	03-2246
Client Job Number:	N/A	Lab Sample Number:	7605
Field Location:	Effluent	Date Sampled:	08/19/2003
Field ID Number:	N/A	Date Received:	08/19/2003
Sample Type:	Water	Date Analyzed:	08/22/2003

Halocarbons	Results in ug / L	Halocarbons	Results in ug / L
Bromodichloromethane	ND< 2.00	trans-1,2-Dichloroethene	ND< 2.00
Bromomethane	ND< 2.00	1,2-Dichloropropane	ND< 2.00
Bromoform	ND< 2.00	cis-1,3-Dichloropropene	ND< 2.00
Carbon tetrachloride	ND< 2.00	trans-1,3-Dichloropropene	ND< 2.00
Chloroethane	ND< 2.00	Methylene chloride	ND< 5.00
Chloromethane	ND< 2.00	1,1,2,2-Tetrachloroethane	ND< 2.00
2-Chloroethyl vinyl ether	ND< 2.00	Tetrachloroethene	ND< 2.00
Chloroform	ND< 2.00	1,1,1-Trichloroethane	101
Dibromochloromethane	ND< 2.00	1,1,2-Trichloroethane	ND< 2.00
1,1-Dichloroethane	20.7	Trichloroethene	8.54
1,2-Dichloroethane	6.51	Trichlorofluoromethane	ND< 2.00
1,1-Dichloroethene	ND< 2.00	Vinyl Chloride	3.35

Aromatics	Results in ug / L	Aromatics	Results in ug / L
Benzene	ND< 0.700	1,2-Dichlorobenzene	ND< 2.00
Chlorobenzene	ND< 2.00	1,3-Dichlorobenzene	ND< 2.00
Ethylbenzene	ND< 2.00	1,4-Dichlorobenzene	ND< 2.00
Toluene	2.58		

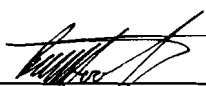
ELAP Number 10958

Method: EPA 601 / 602

Data File: 66865.D

Comments: ND denotes Non Detect
 ug / L = microgram per Liter

Signature:


 Bruce Hoogesteger, Technical Director

Volatile Analysis Report for Non-potable Water

Client: City of Rochester - DEQ

Client Job Site:	RFA-Qtly-SemiAnnual Sampling	Lab Project Number:	03-2246
Client Job Number:	N/A	Lab Sample Number:	7605
Field Location:	Effluent	Date Sampled:	08/19/2003
Field ID Number:	N/A	Date Received:	08/19/2003
Sample Type:	Water	Date Analyzed:	08/22/2003

Halocarbons	Results in ug / L
2-Chloroethyl vinyl ether	ND< 2.00

Ketones	Results in ug / L
Acetone	47.2
2-Butanone	21.3
2-Hexanone	ND< 5.00
4-Methyl-2-pentanone	9.37

ELAP Number 10958

Method: EPA 8015 Modified

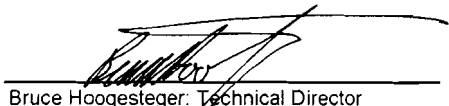
Aromatics	Results in ug / L
m,p - Xylene	ND< 2.00
o - Xylene	ND< 2.00
Styrene	ND< 2.00

Miscellaneous	Results in ug / L
Carbon disulfide	ND< 5.00
Vinyl acetate	ND< 5.00

Data File: 66865.D

Comments: ND denotes Non Detect
ug / L = microgram per Liter

Signature:


Bruce Hoogesteger, Technical Director

PARADIGM ENVIRONMENTAL SERVICES, INC.

179 Lake Avenue
Rochester, NY 14608
(716) 647-2530 * (800) 724-1997
FAX: (716) 647-3311

CHA OF CUSTODY

REPORT TO:

INVOICE TO:

COMPANY: City of Rochester DEED		COMPANY:		LAB PROJECT #:	CLIENT PROJECT #:
ADDRESS: 30 Church St. Rm 300R		ADDRESS:		03-2246	
CITY: Rochester NY	STATE: NY	CITY:	STATE:	TURNAROUND TIME: (WORKING DAYS)	
PHONE: 428-7892	FAX: 428-6010	PHONE:	FAX:		
ATTN: Jane Forbes		ATTN:		☐ 1 ☐ 2 ☐ 3 ☒ 5 ☐ OTHER	
COMMENTS: <i>after not rec'd from source</i>					

PROJECT NAME/SITE NAME:
RIA - Off-Semi Annual Sampling

REQUESTED ANALYSIS

DATE	TIME	COMPOSITE	GRAB	SAMPLE LOCATION/FIELD ID	MATRIX	CONTAMINERS	601/602	801/5	602/5	Post 1/9/03 602	metals	hydrocarbons	pH	Alkalinity	Phosphorus	REMARKS	PARADIGM LAB SAMPLE NUMBER				
1 8/19/03			✓	Influent	H ₂ O	602	X			X	X	X	X	X				7	6	0	4
2 8/19/03			✓	Affluent	H ₂ O	11	X	X	X	X	X		X		X			7	6	0	5
3																					
4																					
5																					
6																					
7																					
8																					
9																					
10																					

LAB USE ONLY

SAMPLE CONDITION: Check box if acceptable or note deviation:	CONTAINER TYPE: ☒	PRESERVATIONS: ☒	HOLDING TIME: ☒	TEMPERATURE: ☐
--	---	--	---	---------------------------------------

Sampled By: <i>JANE FORBES</i>	Date/Time: <i>8/19/03 1200</i>	Relinquished By:	Date/Time:	Total Cost:
Relinquished By: <i>[Signature]</i>	Date/Time: <i>8/19/03 1540</i>	Received By:	Date/Time:	
Received By: <i>[Signature]</i>	Date/Time: <i>8/19/03 1545</i>	Received @ Lab By: <i>[Signature]</i>	Date/Time: <i>8/19/03 1555</i>	P.I.F.



PARADIGM

ENVIRONMENTAL SERVICES, INC.

179 Lake Avenue, Rochester, NY 14608 (585) 647-2530 FAX (585) 647-3311

Client: City of Rochester - DEQ

Lab Project No.: 03-1925

Client Job Site: Rochester Fire Academy
Quarterly Sampling

Sample Type: Water
Method: EPA 150.1

Client Job No.: DEQ - 98045

Date(s) Sampled: 07/18/2003
Date Received: 07/18/2003
Date Analyzed: 07/18/2003

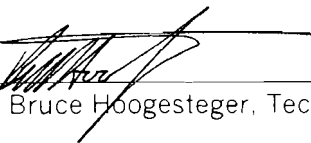
Laboratory Report for pH Analysis

Lab Sample No.	Field ID No.	Field Location	pH Results (S.U.)
6801	N/A	Effluent	7.95

ELAP ID No.: 10958

Comments:

Approved By: _____


Bruce Hoogesteger, Technical Director

Appendix C
Air Emissions Mass Balance Calculations

City of Rochester - Division of Environmental Quality
Rochester Fire Academy Contaminant Recovery
Monitoring Period: August 8, 2002 to November 13, 2002

Parameter	AS Influent Contaminant Concentrations ug/l	AS Eff. (CD Influent) Contaminant Concentrations (ug/l)	Flow Rate Q (gal/min)	Constant (min/hr)	Constant (L/gal)	Constant (lb/ug)	Emissions Rate (lb/hr)	Hourly ERP Emissions (lb/hr)
Vinyl Chloride	939.0	ND(4.0)	1.39	60.00	3.785	2.21E-009	0.0007	0.004
1,1-Dichloroethane	2,870.0	15.2	1.39	60.00	3.785	2.21E-009	0.0020	0.02
1,1,1-Trichloroethane	18,100.0	75.9	1.39	60.00	3.785	2.21E-009	0.0125	0.158
Trichloroethene	1,150.0	5.48	1.39	60.00	3.785	2.21E-009	0.0008	0.019
Toluene	2,180.0	6.85	1.39	60.00	3.785	2.21E-009	0.0015	0.002

* Note: Calculations assume the system is closed with no fugitive emissions.

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City of Rochester - Division of Environmental Quality
Rochester Fire Academy Contaminant Recovery
Monitoring Period: November 13, 2002 to February 13, 2003

Parameter	AS Influent Contaminant Concentrations ug/l	AS Eff. (CD Influent) Contaminant Concentrations (ug/l)	Flow Rate Q (gal/min)	Constant (min/hr)	Constant (L/gal)	Constant (lb/ug)	Emissions Rate (lb/hr)	Hourly ERP Emissions (lb/hr)
Vinyl Chloride	1,630.0	ND(2.0)	4.97	60.00	3.785	2.21E-009	0.0041	0.004
1,1-Dichloroethane	4,890.0	2.8	4.97	60.00	3.785	2.21E-009	0.0122	0.02
1,2-Dichloroethane	340.0	ND(2.0)	4.97	60.00	3.785	2.21E-009	0.00040	0.001
1,1-Dichloroethene	1,010.0	ND(2.0)	4.97	60.00	3.785	2.21E-009	0.0025	0.002
1,1,1-Trichloroethane	23,300.0	6.97	4.97	60.00	3.785	2.21E-009	0.0580	0.158
Trichloroethene	533.0	ND(2.0)	4.97	60.00	3.785	2.21E-009	0.0013	0.019
Toluene	1,610.0	ND(2.0)	4.97	60.00	3.785	2.21E-009	0.0040	0.002

* Note: Calculations assume the system is closed with no fugitive emissions.

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City of Rochester - Division of Environmental Quality
Rochester Fire Academy Contaminant Recovery
Monitoring Period: February 13, 2003 to May 30, 2003

Parameter	AS Influent Contaminant Concentrations ug/l	AS Eff. (CD Influent) Contaminant Concentrations (ug/l)	Flow Rate Q (gal/min)	Constant (min/hr)	Constant (L/gal)	Constant (lb/ug)	Emissions Rate (lb/hr)	Hourly ERP Emissions (lb/hr)
Vinyl Chloride	973.0	3.5	2.23	60.00	3.785	2.21E-009	0.0011	0.004
1,1-Dichloroethane	3,180.0	18.8	2.23	60.00	3.785	2.21E-009	0.0035	0.02
1,2-Dichloroethane	ND(400)	9.64	2.23	60.00	3.785	2.21E-009	-0.0000	0.001
1,1-Dichloroethene	812.0	ND(2.0)	2.23	60.00	3.785	2.21E-009	0.0009	0.002
1,1,1-Trichloroethane	22,000.0	91.8	2.23	60.00	3.785	2.21E-009	0.0245	0.158
Trichloroethene	1,570.0	5.57	2.23	60.00	3.785	2.21E-009	0.0017	0.019
Toluene	2,060.0	2.76	2.23	60.00	3.785	2.21E-009	0.0023	0.002

* Note: Calculations assume the system is closed with no fugitive emissions.

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City of Rochester - Division of Environmental Quality
Rochester Fire Academy Contaminant Recovery
Monitoring Period: May 31, 2003 to August 19, 2003

Parameter	AS Influent Contaminant Concentrations ug/l	AS Eff. (CD Influent) Contaminant Concentrations (ug/l)	Flow Rate Q (gal/min)	Constant (min/hr)	Constant (L/gal)	Constant (lb/ug)	Emissions Rate (lb/hr)	Hourly ERP Emissions (lb/hr)
Vinyl Chloride	ND(1000)	3.35	1.51	60.00	3.785	2.21E-009	-0.0000	0.004
1,1-Dichloroethane	2,800.0	20.7	1.51	60.00	3.785	2.21E-009	0.0021	0.020
1,2-Dichloroethane	ND(1000)	ND(2.0)	1.51	60.00	3.785	2.21E-009	0.0000	0.001
1,1-Dichloroethene	ND(1000)	ND(2.0)	1.51	60.00	3.785	2.21E-009	0.0000	0.002
1,1,1-Trichloroethane	20,600.0	101	1.51	60.00	3.785	2.21E-009	0.0155	0.158
Trichloroethene	1,920.0	8.54	1.51	60.00	3.785	2.21E-009	0.0014	0.019
Toluene	2,390.0	2.58	1.51	60.00	3.785	2.21E-009	0.0018	0.002

* Note: Calculations assume the system is closed with no fugitive emissions.

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Appendix D
Quarterly Inspection and Maintenance Schedule Checklists

Rochester Fire Academy

Quarterly Inspection and Maintenance Schedule Checklist

Date: 11/13/2002
 Inspected By: JMHF

Location: Groundwater Collection Trench

Inspection				
Item	Action	Action Result		Notes
1) Piezometers	Checked with water level indicator to ensure drawdown to desired elevation	Working	☒	
		Not Working	☐	
2) Sediment Build-up in Manholes	Visually inspected manholes and pump station for sediment and obstructions	Present	☐	
		Not Present	☒	
3) Settling Along Ground Surface	Visually inspected ground surface along collection trench	Settling	☐	
		Not Settling	☒	
4) Manhole Covers	Visually inspected manhole and pump station covers	Present	☒	
		Not Present	☐	
5) Pumps	Refer to Manufacturer's O&M manuals for inspection procedure	Checked	☒	
		Not Checked	☐	
6) Additional Items Inspected				
Maintenance				
Item	Maintenance Activity	Maintenance Performed		Description of Maintenance Performed or Reason NOT Performed
1) Pumps	Refer to Manufacturer's O&M manuals for maintenance	Yes	☐	Pumps running within acceptable parameters.
		No	☒	
2) Additional Maintenance Performed		none		
3) Additional Maintenance Performed				

Rochester Fire Academy

Quarterly Inspection and Maintenance Schedule Checklist

Date: 11/13/2002

Location: Sequestering Agent Feed System

Inspected By: JMHF

Inspection				
Item	Action	Action Result		Notes
1) Feed Pump	Visually inspected feed pump and its in-feed and out-feed lines	Acceptable	☒	
		Not Acceptable	☐	
2) Calibration	Checked calibration chamber to verify pumping rate	Calibrated	☒	Approximately monthly
		Not Calibrated	☐	
3) Sequestering Agent	Visually inspected sequestering agent, holding area and drums	Acceptable	☒	
		Not Acceptable	☐	
4) Additional Items Inspected				
5) Additional Items Inspected				
6) Additional Items Inspected				
Maintenance				
Item	Maintenance Activity	Maintenance Performed		Description of Maintenance Performed or Reason NOT Performed
1) Calibrate Pumps	Calibrate pumps during every other (6 months) quarterly inspection	Yes	☒	Occasional loss of pump prime required repriming and re-calibration.
		No	☐	
2) Additional Maintenance Performed				
3) Additional Maintenance Performed				

Rochester Fire Academy
Quarterly Inspection and Maintenance Schedule Checklist

Date: 11/13/2002
 Inspected By: JMHF

Location: Filter Bag Unit(s)

Inspection				
Item	Action	Action Result		Notes
1) Filter Bag Unit(s)	Visually inspect overall system	Acceptable	✓	All bags in Filter units #1 and #2 were changed and the system was flushed on August 19, 2002.
		Not Acceptable		
2) Filter Bags	Check pressure relief differential. Refer to O&M manual	Checked	✓	
		Not Checked		
3) Additional Items Inspected				
4) Additional Items Inspected				
5) Additional Items Inspected				
6) Additional Items Inspected				
Maintenance				
Item	Maintenance Activity	Maintenance Performed		Description of Maintenance Performed or Reason NOT Performed
1) Swing Davit	Apply a small amount of grease to the swing davit every other (6 months) quarterly inspection	Yes	✓	
		No		
2) Additional Maintenance Performed				
3) Additional Maintenance Performed				

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Rochester Fire Academy
Quarterly Inspection and Maintenance Schedule Checklist

Date: 11/13/2002
Inspected By: JMHF

Location: *Feed Tank*

<i>Inspection</i>				
Item	Action	Action Result		Notes
1) Feed Tank(s)	Visually inspected tank for solids build-up	Solids Present Solids NOT Present	☒ ☐	Feed tank filled and solids flushed through system with Monroe County water during August 19, 2002 maintenance.
2) Feed Tank(s)	Visually inspected overall system	Acceptable Not Acceptable	☒ ☐	
3) Additional Items Inspected				
4) Additional Items Inspected				
5) Additional Items Inspected				
6) Additional Items Inspected				
<i>Maintenance</i>				
Item	Maintenance Activity	Maintenance Performed		Description of Maintenance Performed or Reason NOT Performed
1) Feed Tank	If solids build up, refer to O&M manual for procedure	Yes No	☒ ☐	Feed tank flushed during August 19, 2002 maintenance event.
2) Additional Maintenance Performed				
3) Additional Maintenance Performed				

Rochester Fire Academy

Quarterly Inspection and Maintenance Schedule Checklist

Date: 11/13/2002

Location: Air Stripper and Feed Pumps

Inspected By: JMHF

Inspection				
Item	Action	Action Result		Notes
1) Air Stripper	Visually inspected overall system	Acceptable	☒	
		Not Acceptable	☐	
2) Stripper Trays	Visually inspected trays and checked air pressure	Acceptable	☒	
		Not Acceptable	☐	
3) Feed Pumps	Visually inspected feed pumps and all lines	Acceptable	☒	
		Not Acceptable	☐	
4) Additional Items Inspected				
5) Additional Items Inspected				
6) Additional Items Inspected				
Maintenance				
Item	Maintenance Activity	Maintenance Performed		Description of Maintenance Performed or Reason NOT Performed
1) Feed Pumps	Refer to Manufacturer's O&M manuals for maintenance	Yes	☐	
		No	☒	
2) Stripper Trays	Clean trays every other (6 months) quarterly inspection, or when pressure is greater than 18" water	Yes	☐	
		No	☒	
3) Additional Maintenance Performed				

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Rochester Fire Academy
 Quarterly Inspection and Maintenance Schedule Checklist

Date: 11/13/2002
 Inspected By: JMHF

Location: Activated Carbon System

<i>Inspection</i>				
Item	Action	Action Result		Notes
1) System	Visually inspected overall system	Acceptable		N/A - Carbon Drums no longer on-line.
		Not Acceptable		
2) Carbon Drums	Tested for PCB breakthrough	Present		
		Not Present		
3) Additional Items Inspected				
4) Additional Items Inspected				
5) Additional Items Inspected				
6) Additional Items Inspected				
<i>Maintenance</i>				
Item	Maintenance Activity	Maintenance Performed		Description of Maintenance Performed or Reason NOT Performed
1) Carbon Drums	As part of routine maintenance, check pressure drop	Yes		
		No		
2) Additional Maintenance Performed				
3) Additional Maintenance Performed				

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Rochester Fire Academy
Quarterly Inspection and Maintenance Schedule Checklist

Date: 11/13/2002
 Inspected By: JMHF

Location: *Instrumentation*

Inspection				
Item	Action	Action Result		Notes
1) Instrumentation	Visually inspected overall system	Acceptable	✓	
		Not Acceptable		
2) Instrumentation	Visually inspected each instrument	Acceptable	✓	
		Not Acceptable		
3) Additional Items Inspected				
4) Additional Items Inspected				
5) Additional Items Inspected				
6) Additional Items Inspected				
Maintenance				
Item	Maintenance Activity	Maintenance Performed		Description of Maintenance Performed or Reason NOT Performed
1) Instrumentation	Refer to each instrumentation manufacturer's O&M manual	Yes		All instruments in working order.
		No	✓	
2) Additional Maintenance Performed				
3) Additional Maintenance Performed				

Rochester Fire Academy

Quarterly Inspection and Maintenance Schedule Checklist

Date: 11/13/2002

Location: *Building Sump Pit and Pumps*

Inspected By: JMHF

Inspection				
Item	Action	Action Result		Notes
1) North Pump	Visually inspected overall system (pump and lines)	Acceptable	☒	
		Not Acceptable	☐	
2) South Pump	Visually inspected shaft seal and motor	Acceptable	☒	
		Not Acceptable	☐	
3) Sump Pit	Visually onspcted pit for defects and obstructions	Acceptable	☒	
		Not Acceptable	☐	
4) Floats	Visually inspected automatic floats	Acceptable	☒	
		Not Acceptable	☐	
5) Additional Items Inspected				
6) Additional Items Inspected				
Maintenance				
Item	Maintenance Activity	Maintenance Performed		Description of Maintenance Performed or Reason NOT Performed
1) Pumps	Refer to manufacturer's O&M manuals for maintenance	Yes	☒	08/19/2002 Pulled and pressure washed pumps, tested pump lift, sprayed and cleaned sump bottom.
		No	☐	
2) Additional Maintenance Performed				
3) Additional Maintenance Performed				

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Rochester Fire Academy

Quarterly Inspection and Maintenance Schedule Checklist

Date: 11/13/2002

Location: Treatment Building & Facility Access

Inspected By: JMHF

Inspection				
Item	Action	Action Result		Notes
1) Building	Visually inspected overall appearance of the GWTP	Acceptable	✓	
		Not Acceptable		
2) Concrete	Visually inspected all concrete for cracks or other indications of structural failure	Acceptable	✓	
		Not Acceptable		
3) Building Enclosures	Visually inspected walls for bowing or indications of failure	Acceptable	✓	
		Not Acceptable		
4) Utilities	Visually inspected and checked utility service to entire building	Present	✓	
		Not Present		
5) Facility Access	Visually inspected roads, fences and gates	Acceptable	✓	
		Not Acceptable		
6) Additional Items Inspected				
Maintenance				
Item	Maintenance Activity	Maintenance Performed		Description of Maintenance Performed or Reason NOT Performed
1) Overhead Door	Apply grease to track as needed	Yes		Functioning properly.
		No	✓	
2) Facility Access System	See Table 7-1 of GWTP O&M manual	Yes		Functioning properly.
		No	✓	
3) Additional Maintenance Performed				

Rochester Fire Academy

Quarterly Inspection and Maintenance Schedule Checklist

Date: 02/13/2003

Location: Groundwater Collection Trench

Inspected By: JMHF

Inspection				
Item	Action	Action Result		Notes
1) Piezometers	Checked with water level indicator to ensure drawdown to desired elevation	Working	✓	
		Not Working		
2) Sediment Build-up in Manholes	Visually inspected manholes and pump station for sediment and obstructions	Present		
		Not Present	✓	
3) Settling Along Ground Surface	Visually inspected ground surface along collection trench	Settling		
		Not Settling	✓	
4) Manhole Covers	Visually inspected manhole and pump station covers	Present	✓	
		Not Present		
5) Pumps	Refer to Manufacturer's O&M manuals for inspection procedure	Checked	✓	
		Not Checked		
6) Additional Items Inspected				
Maintenance				
Item	Maintenance Activity	Maintenance Performed		Description of Maintenance Performed or Reason NOT Performed
1) Pumps	Refer to Manufacturer's O&M manuals for maintenance	Yes		Pumps running within acceptable parameters. Confined space.
		No	✓	
2) Additional Maintenance Performed		none		
3) Additional Maintenance Performed				

Rochester Fire Academy

Quarterly Inspection and Maintenance Schedule Checklist

Date: 02/13/2003

Location: *Sequestering Agent Feed System*

Inspected By: JMHF

Inspection				
Item	Action	Action Result		Notes
1) Feed Pump	Visually inspected feed pump and its in-feed and out-feed lines	Acceptable	☒	
		Not Acceptable	☐	
2) Calibration	Checked calibration chamber to verify pumping rate	Calibrated	☒	Approximately monthly
		Not Calibrated	☐	
3) Sequestering Agent	Visually inspected sequestering agent, holding area and drums	Acceptable	☒	
		Not Acceptable	☐	
4) Additional Items Inspected				
5) Additional Items Inspected				
6) Additional Items Inspected				
Maintenance				
Item	Maintenance Activity	Maintenance Performed		Description of Maintenance Performed or Reason NOT Performed
1) Calibrate Pumps	Calibrate pumps during every other (6 months) quarterly inspection	Yes	☒	Occassional loss of pump prime required repriming and re-calibration.
		No	☐	
2) Additional Maintenance Performed				
3) Additional Maintenance Performed				

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Rochester Fire Academy

Quarterly Inspection and Maintenance Schedule Checklist

Date: 02/13/2003

Location: *Filter Bag Unit(s)*

Inspected By: JMHF

Inspection				
Item	Action	Action Result		Notes
1) Filter Bag Unit(s)	Visually inspect overall system	Acceptable	☒	
		Not Acceptable	☐	
2) Filter Bags	Check pressure relief differential. Refer to O&M manual	Checked	☒	Filter Bags in Filter Unit #1 changed and Filter Unit cleaned 12/18/2002 and 01/09/2003.
		Not Checked	☐	
3) Additional Items Inspected				
4) Additional Items Inspected				
5) Additional Items Inspected				
6) Additional Items Inspected				
Maintenance				
Item	Maintenance Activity	Maintenance Performed		Description of Maintenance Performed or Reason NOT Performed
1) Swing Davit	Apply a small amount of grease to the swing davit every other (6 months) quarterly inspection	Yes	☒	
		No	☐	
2) Additional Maintenance Performed				
3) Additional Maintenance Performed				

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Rochester Fire Academy
Quarterly Inspection and Maintenance Schedule Checklist

Date: 02/13/2003
Inspected By: JMHF

Location: *Feed Tank*

Inspection				
Item	Action	Action Result		Notes
1) Feed Tank	Visually inspected tank for solids build-up	Solids Present	✓	
		Solids NOT Present		
2) Feed Tank	Visually inspected overall system	Acceptable	✓	
		Not Acceptable		
3) Additional Items Inspected				
4) Additional Items Inspected				
5) Additional Items Inspected				
6) Additional Items Inspected				
Maintenance				
Item	Maintenance Activity	Maintenance Performed		Description of Maintenance Performed or Reason NOT Performed
1) Feed Tank	If solids build up, refer to O&M manual for procedure	Yes	✓	Feed tank filled with fresh water and flushed to remove solids 12/24/2002.
		No		
2) Additional Maintenance Performed				
3) Additional Maintenance Performed				

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Rochester Fire Academy

Quarterly Inspection and Maintenance Schedule Checklist

Date: 02/13/2003

Location: Air Stripper and Feed Pumps

Inspected By: JMHF

Inspection				
Item	Action	Action Result		Notes
1) Air Stripper	Visually inspected overall system	Acceptable	☒	AS shut down for annual cleaning and maintenance from 12/06/2002 to 12/18/2002.
		Not Acceptable	☐	
2) Stripper Trays	Visually inspected trays and checked air pressure	Acceptable	☒	
		Not Acceptable	☐	
3) Feed Pumps	Visually inspected feed pumps and all lines	Acceptable	☒	
		Not Acceptable	☐	
4) Additional Items Inspected				
5) Additional Items Inspected				
6) Additional Items Inspected				
Maintenance				
Item	Maintenance Activity	Maintenance Performed		Description of Maintenance Performed or Reason NOT Performed
1) Feed Pumps	Refer to Manufacturer's O&M manuals for maintenance	Yes	☐	
		No	☒	
2) Stripper Trays	Clean trays every other (6 months) quarterly inspection, or when pressure is greater than 18" water	Yes	☒	AS trays cleaned 12/06/2002 - 12/18/2002.
		No	☐	
3) Additional Maintenance Performed				

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Rochester Fire Academy
Quarterly Inspection and Maintenance Schedule Checklist

Date: 02/13/2003
Inspected By: JMHF

Location: Activated Carbon System

Inspection				
Item	Action	Action Result		Notes
1) System	Visually inspected overall system	Acceptable	☐	N/A - Carbon Drums no longer on-line.
		Not Acceptable	☐	
2) Carbon Drums	Tested for PCB breakthrough	Present	☐	
		Not Present	☐	
3) Additional Items Inspected				
4) Additional Items Inspected				
5) Additional Items Inspected				
6) Additional Items Inspected				
Maintenance				
Item	Maintenance Activity	Maintenance Performed		Description of Maintenance Performed or Reason NOT Performed
1) Carbon Drums	As part of routine maintenance, check pressure drop	Yes	☐	
		No	☐	
2) Additional Maintenance Performed				
3) Additional Maintenance Performed				

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Rochester Fire Academy
Quarterly Inspection and Maintenance Schedule Checklist

Date: 02/13/2003
Inspected By: JMHF

Location: *Instrumentation*

Inspection				
Item	Action	Action Result		Notes
1) Instrumentation	Visually inspected overall system	Acceptable	✓	
		Not Acceptable		
2) Instrumentation	Visually inspected each instrument	Acceptable	✓	
		Not Acceptable		
3) Additional Items Inspected				
4) Additional Items Inspected				
5) Additional Items Inspected				
6) Additional Items Inspected				
Maintenance				
Item	Maintenance Activity	Maintenance Performed		Description of Maintenance Performed or Reason NOT Performed
1) Instrumentation	Refer to each instrumentation manufacturer's O&M manual	Yes		All instruments in working order.
		No	✓	
2) Additional Maintenance Performed				
3) Additional Maintenance Performed				

Rochester Fire Academy

Quarterly Inspection and Maintenance Schedule Checklist

Date: 02/13/2003

Location: Building Sump Pit and Pumps

Inspected By: JMHF

Inspection				
Item	Action	Action Result		Notes
1) North Pump	Visually inspected overall system (pump and lines)	Acceptable	✓	
		Not Acceptable		
2) South Pump	Visually inspected shaft seal and motor	Acceptable	✓	
		Not Acceptable		
3) Sump Pit	Visually onspcted pit for defects and obstructions	Acceptable	✓	
		Not Acceptable		
4) Floats	Visually inspected automatic floats	Acceptable	✓	
		Not Acceptable		
5) Additional Items Inspected				
6) Additional Items Inspected				
Maintenance				
Item	Maintenance Activity	Maintenance Performed		Description of Maintenance Performed or Reason NOT Performed
1) Pumps	Refer to manufacturer's O&M manuals for maintenance	Yes	✓	12/24/2002 - Pulled and washed pumps, tested pump lift, sprayed and cleaned sump bottom.
		No		
2) Additional Maintenance Performed				
3) Additional Maintenance Performed				

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Rochester Fire Academy

Quarterly Inspection and Maintenance Schedule Checklist

Date: 02/13/2003

Location: Treatment Building & Facility Access

Inspected By: JMHF

Inspection				
Item	Action	Action Result		Notes
1) Building	Visually inspected overall appearance of the GWTP	Acceptable	✓	
		Not Acceptable		
2) Concrete	Visually inspected all concrete for cracks or other indications of structural failure	Acceptable	✓	
		Not Acceptable		
3) Building Enclosures	Visually inspected walls for bowing or indications of failure	Acceptable	✓	
		Not Acceptable		
4) Utilities	Visually inspected and checked utility service to entire building	Present	✓	
		Not Present		
5) Facility Access	Visually inspected roads, fences and gates	Acceptable	✓	
		Not Acceptable		
6) Additional Items Inspected				
Maintenance				
Item	Maintenance Activity	Maintenance Performed		Description of Maintenance Performed or Reason NOT Performed
1) Overhead Door	Apply grease to track as needed	Yes		Functioning properly.
		No	✓	
2) Facility Access System	See Table 7-1 of GWTP O&M manual	Yes		Functioning properly.
		No	✓	
3) Additional Maintenance Performed				

Rochester Fire Academy

Quarterly Inspection and Maintenance Schedule Checklist

Date: 05/30/2003
 Inspected By: JMHF

Location: Groundwater Collection Trench

Inspection				
Item	Action	Action Result		Notes
1) Piezometers	Checked with water level indicator to ensure drawdown to desired elevation	Working	✓	
		Not Working		
2) Sediment Build-up in Manholes	Visually inspected manholes and pump station for sediment and obstructions	Present		
		Not Present	✓	
3) Settling Along Ground Surface	Visually inspected ground surface along collection trench	Settling		
		Not Settling	✓	
4) Manhole Covers	Visually inspected manhole and pump station covers	Present	✓	
		Not Present		
5) Pumps	Refer to Manufacturer's O&M manuals for inspection procedure	Checked	✓	
		Not Checked		
6) Additional Items Inspected				
Maintenance				
Item	Maintenance Activity	Maintenance Performed		Description of Maintenance Performed or Reason NOT Performed
1) Pumps	Refer to Manufacturer's O&M manuals for maintenance	Yes		Pumps running within acceptable parameters. Confined space.
		No	✓	
2) Additional Maintenance Performed		none		
3) Additional Maintenance Performed				

Rochester Fire Academy

Quarterly Inspection and Maintenance Schedule Checklist

Date: 05/30/2003

Location: Sequestering Agent Feed System

Inspected By: JMHF

Inspection				
Item	Action	Action Result		Notes
1) Feed Pump	Visually inspected feed pump and its in-feed and out-feed lines	Acceptable	☒	
		Not Acceptable	☐	
2) Calibration	Checked calibration chamber to verify pumping rate	Calibrated	☒	Approximately monthly
		Not Calibrated	☐	
3) Sequestering Agent	Visually inspected sequestering agent, holding area and drums	Acceptable	☒	
		Not Acceptable	☐	
4) Additional Items Inspected				
5) Additional Items Inspected				
6) Additional Items Inspected				
Maintenance				
Item	Maintenance Activity	Maintenance Performed		Description of Maintenance Performed or Reason NOT Performed
1) Calibrate Pumps	Calibrate pumps during every other (6 months) quarterly inspection	Yes	☒	Occassional loss of pump prime required repriming and re-calibration.
		No	☐	
2) Additional Maintenance Performed				
3) Additional Maintenance Performed				

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Rochester Fire Academy

Quarterly Inspection and Maintenance Schedule Checklist

Date: 05/30/2003

Location: *Filter Bag Unit(s)*

Inspected By: JMHF

Inspection				
Item	Action	Action Result		Notes
1) Filter Bag Unit(s)	Visually inspect overall system	Acceptable	☒	
		Not Acceptable	☐	
2) Filter Bags	Check pressure relief differential. Refer to O&M manual	Checked	☒	Filter Bags in Filter Unit #1 changed and Filter Unit cleaned 04/28/2003.
		Not Checked	☐	
3) Additional Items Inspected				
4) Additional Items Inspected				
5) Additional Items Inspected				
6) Additional Items Inspected				
Maintenance				
Item	Maintenance Activity	Maintenance Performed		Description of Maintenance Performed or Reason NOT Performed
1) Swing Davit	Apply a small amount of grease to the swing davit every other (6 months) quarterly inspection	Yes	☒	
		No	☐	
2) Additional Maintenance Performed				
3) Additional Maintenance Performed				

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Rochester Fire Academy
Quarterly Inspection and Maintenance Schedule Checklist

Date: 05/30/2003
Inspected By: JMHF

Location: Feed Tank

Inspection				
Item	Action	Action Result		Notes
1) Feed Tank	Visually inspected tank for solids build-up	Solids Present	✓	
		Solids NOT Present		
2) Feed Tank	Visually inspected overall system	Acceptable	✓	
		Not Acceptable		
3) Additional Items Inspected				
4) Additional Items Inspected				
5) Additional Items Inspected				
6) Additional Items Inspected				
Maintenance				
Item	Maintenance Activity	Maintenance Performed		Description of Maintenance Performed or Reason NOT Performed
1) Feed Tank	If solids build up, refer to O&M manual for procedure	Yes	✓	Feed tank filled with fresh water and flushed to remove solids 05/13/2003.
		No		
2) Additional Maintenance Performed				
3) Additional Maintenance Performed				

Rochester Fire Academy

Quarterly Inspection and Maintenance Schedule Checklist

Date: 05/30/2003

Location: Air Stripper and Feed Pumps

Inspected By: JMHF

Inspection				
Item	Action	Action Result		Notes
1) Air Stripper	Visually inspected overall system	Acceptable	☒	
		Not Acceptable	☐	
2) Stripper Trays	Visually inspected trays and checked air pressure	Acceptable	☒	
		Not Acceptable	☐	
3) Feed Pumps	Visually inspected feed pumps and all lines	Acceptable	☒	
		Not Acceptable	☐	
4) Additional Items Inspected				
5) Additional Items Inspected				
6) Additional Items Inspected				
Maintenance				
Item	Maintenance Activity	Maintenance Performed		Description of Maintenance Performed or Reason NOT Performed
1) Feed Pumps	Refer to Manufacturer's O&M manuals for maintenance	Yes	☐	
		No	☒	
2) Stripper Trays	Clean trays every other (6 months) quarterly inspection, or when pressure is greater than 18" water	Yes	☐	
		No	☒	
3) Additional Maintenance Performed				

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Rochester Fire Academy
Quarterly Inspection and Maintenance Schedule Checklist

Date: 05/30/2003
Inspected By: JMHF

Location: Activated Carbon System

Inspection				
Item	Action	Action Result		Notes
1) System	Visually inspected overall system	Acceptable	☐	N/A - Carbon Drums no longer on-line.
		Not Acceptable	☐	
2) Carbon Drums	Tested for PCB breakthrough	Present	☐	
		Not Present	☐	
3) Additional Items Inspected				
4) Additional Items Inspected				
5) Additional Items Inspected				
6) Additional Items Inspected				
Maintenance				
Item	Maintenance Activity	Maintenance Performed		Description of Maintenance Performed or Reason NOT Performed
1) Carbon Drums	As part of routine maintenance, check pressure drop	Yes	☐	
		No	☐	
2) Additional Maintenance Performed				
3) Additional Maintenance Performed				

Rochester Fire Academy
Quarterly Inspection and Maintenance Schedule Checklist

Date: 05/30/2003
Inspected By: JMHF

Location: *Instrumentation*

Inspection				
Item	Action	Action Result		Notes
1) Instrumentation	Visually inspected overall system	Acceptable	✓	
		Not Acceptable		
2) Instrumentation	Visually inspected each instrument	Acceptable	✓	
		Not Acceptable		
3) Additional Items Inspected				
4) Additional Items Inspected				
5) Additional Items Inspected				
6) Additional Items Inspected				
Maintenance				
Item	Maintenance Activity	Maintenance Performed		Description of Maintenance Performed or Reason NOT Performed
1) Instrumentation	Refer to each instrumentation manufacturer's O&M manual	Yes		All instruments in working order.
		No	✓	
2) Additional Maintenance Performed				
3) Additional Maintenance Performed				

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Rochester Fire Academy

Quarterly Inspection and Maintenance Schedule Checklist

Date: 05/30/2003

Location: Building Sump Pit and Pumps

Inspected By: JMHF

Inspection				
Item	Action	Action Result		Notes
1) North Pump	Visually inspected overall system (pump and lines)	Acceptable	✓	
		Not Acceptable		
2) South Pump	Visually inspected shaft seal and motor	Acceptable	✓	
		Not Acceptable		
3) Sump Pit	Visually onspcted pit for defects and obstructions	Acceptable	✓	
		Not Acceptable		
4) Floats	Visually inspected automatic floats	Acceptable	✓	
		Not Acceptable		
5) Additional Items Inspected				
6) Additional Items Inspected				
Maintenance				
Item	Maintenance Activity	Maintenance Performed		Description of Maintenance Performed or Reason NOT Performed
1) Pumps	Refer to manufacturer's O&M manuals for maintenance	Yes	✓	05/13/2003 - Pulled and washed pumps, tested pump lift, sprayed and cleaned sump bottom.
		No		
2) Additional Maintenance Performed				
3) Additional Maintenance Performed				

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Rochester Fire Academy

Quarterly Inspection and Maintenance Schedule Checklist

Date: 05/30/2003

Location: Treatment Building & Facility Access

Inspected By: JMHF

Inspection				
Item	Action	Action Result	Notes	
1) Building	Visually inspected overall appearance of the GWTP	Acceptable	☒	
		Not Acceptable	☐	
2) Concrete	Visually inspected all concrete for cracks or other indications of structural failure	Acceptable	☒	
		Not Acceptable	☐	
3) Building Enclosures	Visually inspected walls for bowing or indications of failure	Acceptable	☒	
		Not Acceptable	☐	
4) Utilities	Visually inspected and checked utility service to entire building	Present	☒	
		Not Present	☐	
5) Facility Access	Visually inspected roads, fences and gates	Acceptable	☒	
		Not Acceptable	☐	
6) Additional Items Inspected				
Maintenance				
Item	Maintenance Activity	Maintenance Performed	Description of Maintenance Performed or Reason NOT Performed	
1) Overhead Door	Apply grease to track as needed	Yes	☐	Functioning properly.
		No	☒	
2) Facility Access System	See Table 7-1 of GWTP O&M manual	Yes	☐	Functioning properly.
		No	☒	
3) Additional Maintenance Performed				

Rochester Fire Academy

Quarterly Inspection and Maintenance Schedule Checklist

Date: 08/20/2003
 Inspected By: JMHF

Location: Groundwater Collection Trench

Inspection				
Item	Action	Action Result		Notes
1) Piezometers	Checked with water level indicator to ensure drawdown to desired elevation	Working	✓	
		Not Working		
2) Sediment Build-up in Manholes	Visually inspected manholes and pump station for sediment and obstructions	Present		
		Not Present	✓	
3) Settling Along Ground Surface	Visually inspected ground surface along collection trench	Settling		
		Not Settling	✓	
4) Manhole Covers	Visually inspected manhole and pump station covers	Present	✓	
		Not Present		
5) Pumps	Refer to Manufacturer's O&M manuals for inspection procedure	Checked	✓	
		Not Checked		
6) Additional Items Inspected				
Maintenance				
Item	Maintenance Activity	Maintenance Performed		Description of Maintenance Performed or Reason NOT Performed
1) Pumps	Refer to Manufacturer's O&M manuals for maintenance	Yes		Pumps running within acceptable parameters. Confined space.
		No	✓	
2) Additional Maintenance Performed		none		
3) Additional Maintenance Performed				

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Rochester Fire Academy

Quarterly Inspection and Maintenance Schedule Checklist

Date: 08/20/2003

Location: *Sequestering Agent Feed System*

Inspected By: JMHF

Inspection				
Item	Action	Action Result		Notes
1) Feed Pump	Visually inspected feed pump and its in-feed and out-feed lines	Acceptable	☒	
		Not Acceptable	☐	
2) Calibration	Checked calibration chamber to verify pumping rate	Calibrated	☒	Approximately monthly
		Not Calibrated	☐	
3) Sequestering Agent	Visually inspected sequestering agent, holding area and drums	Acceptable	☒	
		Not Acceptable	☐	
4) Additional Items Inspected				
5) Additional Items Inspected				
6) Additional Items Inspected				
Maintenance				
Item	Maintenance Activity	Maintenance Performed		Description of Maintenance Performed or Reason NOT Performed
1) Calibrate Pumps	Calibrate pumps during every other (6 months) quarterly inspection	Yes	☒	Occassional loss of pump prime required repriming and re-calibration.
		No	☐	
2) Additional Maintenance Performed				
3) Additional Maintenance Performed				

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Rochester Fire Academy

Quarterly Inspection and Maintenance Schedule Checklist

Date: 08/20/2003

Location: *Filter Bag Unit(s)*

Inspected By: JMHF

Inspection				
Item	Action	Action Result		Notes
1) Filter Bag Unit(s)	Visually inspect overall system	Acceptable	☒	
		Not Acceptable	☐	
2) Filter Bags	Check pressure relief differential. Refer to O&M manual	Checked	☒	Filter Bags in Filter Unit #2 changed and Filter Unit cleaned 06/20/2003
		Not Checked	☐	
3) Additional Items Inspected				
4) Additional Items Inspected				
5) Additional Items Inspected				
6) Additional Items Inspected				
Maintenance				
Item	Maintenance Activity	Maintenance Performed		Description of Maintenance Performed or Reason NOT Performed
1) Swing Davit	Apply a small amount of grease to the swing davit every other (6 months) quarterly inspection	Yes	☒	
		No	☐	
2) Additional Maintenance Performed				
3) Additional Maintenance Performed				

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Rochester Fire Academy
Quarterly Inspection and Maintenance Schedule Checklist

Date: 08/20/2003
Inspected By: JMHF

Location: *Feed Tank*

Inspection				
Item	Action	Action Result		Notes
1) Feed Tank	Visually inspected tank for solids build-up	Solids Present	✓	
		Solids NOT Present		
2) Feed Tank	Visually inspected overall system	Acceptable	✓	
		Not Acceptable		
3) Additional Items Inspected				
4) Additional Items Inspected				
5) Additional Items Inspected				
6) Additional Items Inspected				
Maintenance				
Item	Maintenance Activity	Maintenance Performed		Description of Maintenance Performed or Reason NOT Performed
1) Feed Tank	If solids build up, refer to O&M manual for procedure	Yes	✓	Feed tank filled with fresh water and flushed to remove solids 06/20/2003.
		No		
2) Additional Maintenance Performed				
3) Additional Maintenance Performed				

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Rochester Fire Academy

Quarterly Inspection and Maintenance Schedule Checklist

Date: 08/20/2003

Location: Air Stripper and Feed Pumps

Inspected By: JMHF

Inspection				
Item	Action	Action Result		Notes
1) Air Stripper	Visually inspected overall system	Acceptable	✓	
		Not Acceptable		
2) Stripper Trays	Visually inspected trays and checked air pressure	Acceptable	✓	
		Not Acceptable		
3) Feed Pumps	Visually inspected feed pumps and all lines	Acceptable	✓	
		Not Acceptable		
4) Additional Items Inspected				
5) Additional Items Inspected				
6) Additional Items Inspected				
Maintenance				
Item	Maintenance Activity	Maintenance Performed		Description of Maintenance Performed or Reason NOT Performed
1) Feed Pumps	Refer to Manufacturer's O&M manuals for maintenance	Yes		
		No	✓	
2) Stripper Trays	Clean trays every other (6 months) quarterly inspection, or when pressure is greater than 18" water	Yes		
		No	✓	
3) Additional Maintenance Performed				

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Rochester Fire Academy
Quarterly Inspection and Maintenance Schedule Checklist

Date: 08/20/2003
Inspected By: JMHF

Location: *Activated Carbon System*

Inspection				
Item	Action	Action Result		Notes
1) System	Visually inspected overall system	Acceptable	☐	N/A - Carbon Drums no longer on-line.
		Not Acceptable	☐	
2) Carbon Drums	Tested for PCB breakthrough	Present	☐	
		Not Present	☐	
3) Additional Items Inspected				
4) Additional Items Inspected				
5) Additional Items Inspected				
6) Additional Items Inspected				
Maintenance				
Item	Maintenance Activity	Maintenance Performed		Description of Maintenance Performed or Reason NOT Performed
1) Carbon Drums	As part of routine maintenance, check pressure drop	Yes	☐	
		No	☐	
2) Additional Maintenance Performed				
3) Additional Maintenance Performed				

Rochester Fire Academy
Quarterly Inspection and Maintenance Schedule Checklist

Date: 08/20/2003
Inspected By: JMHF

Location: Instrumentation

Inspection				
Item	Action	Action Result		Notes
1) Instrumentation	Visually inspected overall system	Acceptable	✓	
		Not Acceptable		
2) Instrumentation	Visually inspected each instrument	Acceptable	✓	
		Not Acceptable		
3) Additional Items Inspected				
4) Additional Items Inspected				
5) Additional Items Inspected				
6) Additional Items Inspected				
Maintenance				
Item	Maintenance Activity	Maintenance Performed		Description of Maintenance Performed or Reason NOT Performed
1) Instrumentation	Refer to each instrumentation manufacturer's O&M manual	Yes		All instruments in working order.
		No	✓	
2) Additional Maintenance Performed				
3) Additional Maintenance Performed				

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Rochester Fire Academy

Quarterly Inspection and Maintenance Schedule Checklist

Date: 08/20/2003

Location: Building Sump Pit and Pumps

Inspected By: JMHF

Inspection				
Item	Action	Action Result		Notes
1) North Pump	Visually inspected overall system (pump and lines)	Acceptable	✓	
		Not Acceptable		
2) South Pump	Visually inspected shaft seal and motor	Acceptable	✓	
		Not Acceptable		
3) Sump Pit	Visually onspeted pit for defects and obstructions	Acceptable	✓	
		Not Acceptable		
4) Floats	Visually inspected automatic floats	Acceptable	✓	
		Not Acceptable		
5) Additional Items Inspected				
6) Additional Items Inspected				
Maintenance				
Item	Maintenance Activity	Maintenance Performed		Description of Maintenance Performed or Reason NOT Performed
1) Pumps	Refer to manufacturer's O&M manuals for maintenance	Yes	✓	06/20/2003 - Pulled and washed pumps, tested pump lift, sprayed and cleaned sump bottom.
		No		
2) Additional Maintenance Performed				
3) Additional Maintenance Performed				

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Rochester Fire Academy

Quarterly Inspection and Maintenance Schedule Checklist

Date: 08/20/2003

Location: Treatment Building & Facility Access

Inspected By: JMHF

Inspection				
Item	Action	Action Result		Notes
1) Building	Visually inspected overall appearance of the GWTP	Acceptable	✓	
		Not Acceptable		
2) Concrete	Visually inspected all concrete for cracks or other indications of structural failure	Acceptable	✓	
		Not Acceptable		
3) Building Enclosures	Visually inspected walls for bowing or indications of failure	Acceptable	✓	
		Not Acceptable		
4) Utilities	Visually inspected and checked utility service to entire building	Present	✓	
		Not Present		
5) Facility Access	Visually inspected roads, fences and gates	Acceptable	✓	
		Not Acceptable		
6) Additional Items Inspected				
Maintenance				
Item	Maintenance Activity	Maintenance Performed		Description of Maintenance Performed or Reason NOT Performed
1) Overhead Door	Apply grease to track as needed	Yes		Functioning properly.
		No	✓	
2) Facility Access System	See Table 7-1 of GWTP O&M manual	Yes		Functioning properly.
		No	✓	
3) Additional Maintenance Performed				

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Rochester Fire Academy
Cover System Inspection Checklist

Date: 11/13/2002
Inspected By: JMHF

VISUAL EVALUATION ITEMS	Condition (Check)				Remarks
	Acceptable	Not Acceptable	Present	Not Present	
1. North Disposal Area	✓				
a. Vegetative cover integrity	_____	_____			
b. Erosion			_____	_____✓_____	
c. Settling			_____	_____✓_____	
d. Slope Loss			_____	_____✓_____	
e. Pooling/ Ponding			_____	_____✓_____	
f. Undesirable Species			_____	_____✓_____	
2. South Disposal Area	✓				
a. Vegetative cover integrity	_____	_____			
b. Erosion			_____	_____✓_____	
c. Settling			_____	_____✓_____	
d. Slope Loss			_____	_____✓_____	
e. Pooling/ Ponding			_____	_____✓_____	
f. Undesirable Species			_____	_____✓_____	
3. Training Grounds Area	✓				
a. Surface Coarse Integrity	_____	_____			
b. Cracking			_____	_____✓_____	
c. Potholes			_____	_____✓_____	
d. Pooling/ Ponding			_____	_____✓_____	
e. Undesirable Species			_____	_____✓_____	
4. Other Comments/ Problems:					

Rochester Fire Academy
Groundwater Collection and Treatment System
Equipment Maintenance Schedule Checklist

Date: 11/13/2002
Inspected By: JMHF

Item	Maintenance Activity	Recommended Frequency	Date Performed	Notes
Sequestering Agent Feed Pumps	Replace Seal Rings	Annually	N/A	
	Replace Check Valve Balls	Annually	N/A	
	Replace Check Valve Springs	Annually	N/A	
Bag Filter Unit	Replace Bags	When differential pressure exceeds 10 psi	N/A	Unit #1: 8/19/02 Unit #2: 8/19/02
	Lubricate swing davits	Annually	N/A	
Feed Tank	Clean Solids	When necessary	N/A	
Air Stripper	Examine Trays	Bi-Weekly	N/A	
	Clean/ De-scale	Semi-annually*	N/A	
Activated Carbon Vessels	Backflush	When differential pressure exceeds 5 psi above clean container or 10 psi total	N/A	<i>CDs taken off-line permanently 05/00.</i>
	Replace	Based on analytical results	N/A	
Discharge Tank	Clean solids	As necessary	N/A	
* Frequency may need to be adjusted based on field observations.				

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Rochester Fire Academy
Storm Water Collection System Inspection Checklist

Date: 11/13/2002
Inspected By: JMHF

VISUAL EVALUATION ITEMS	Condition (Check)		Remarks
	Present	Not Present	
1. Drainage Channels a. Sediment Build-up b. Pooling/ Ponding c. Severe Cracking d. Erosion e. Slope Loss	 	 ☒ ☒ ☒ ☒ ☒	
2. South Disposal Are a. Sediment Build-up b. Pooling/ Ponding c. Broken Pipe d. Slope Loss e. Grate Clogging	 	 ☒ ☒ ☒ ☒ ☒	
3. Drainage Structures #1, #2, #3 a. Flapper Valve Functioning b. Broken/ Cracked pipe c. Cracked headwall structure	 ☒ 	 ☒ ☒	
4. Other Comments/ Problems:			

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Rochester Fire Academy
Cover System Inspection Checklist

Date: 02/13/2003
Inspected By: JMHF

VISUAL EVALUATION ITEMS	Condition (Check)				Remarks
	Acceptable	Not Acceptable	Present	Not Present	
1. North Disposal Area a. Vegetative cover integrity b. Erosion c. Settling d. Slope Loss e. Pooling/ Ponding f. Undesirable Species	✓ _____	_____	_____ _____ _____ _____ _____	_____ ✓_____ ✓_____ ✓_____ ✓_____ ✓_____ ✓_____	
2. South Disposal Are a. Vegetative cover integrity b. Erosion c. Settling d. Slope Loss e. Pooling/ Ponding f. Undesirable Species	✓ _____	_____	_____ _____ _____ _____ _____ _____	_____ ✓_____ ✓_____ ✓_____ ✓_____ ✓_____ ✓_____	
3. Training Grounds Area a. Surface Coarse Integrity b. Cracking c. Potholes d. Pooling/ Ponding e. Undesirable Species	✓ _____	_____	_____ _____ _____ _____ _____	_____ ✓_____ ✓_____ ✓_____ ✓_____ ✓_____	
4. Other Comments/ Problems:					

Rochester Fire Academy
Groundwater Collection and Treatment System
Equipment Maintenance Schedule Checklist

Date: 02/13/2003
Inspected By: JMHF

Item	Maintenance Activity	Recommended Frequency	Date Performed	Notes
Sequestering Agent Feed Pumps	Replace Seal Rings	Annually	N/A	
	Replace Check Valve Balls	Annually	N/A	
	Replace Check Valve Springs	Annually	N/A	
Bag Filter Unit	Replace Bags	When differential pressure exceeds 10 psi	N/A	Unit #1: 12/18/2002; 01/09/2003
	Lubricate swing davits	Annually	N/A	
Feed Tank	Clean Solids	When necessary	N/A	12/24/2002
Air Stripper	Examine Trays	Bi-Weekly	N/A	
	Clean/ De-scale	Semi-annually*	N/A	12/06/2002 - 12/18/2002
Activated Carbon Vessels	Backflush	When differential pressure exceeds 5 psi above clean container or 10 psi total	N/A	<i>CDs taken off-line permanently 05/00.</i>
	Replace	Based on analytical results	N/A	
Discharge Tank	Clean solids	As necessary	N/A	
* Frequency may need to be adjusted based on field observations.				

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Rochester Fire Academy
Storm Water Collection System Inspection Checklist

Date: 02/13/2003

Inspected By: JMHF

VISUAL EVALUATION ITEMS	Condition (Check)		Remarks
	Present	Not Present	
1. Drainage Channels a. Sediment Build-up b. Pooling/ Ponding c. Severe Cracking d. Erosion e. Slope Loss	 	 ☒ ☒ ☒ ☒ ☒	
2. South Disposal Are a. Sediment Build-up b. Pooling/ Ponding c. Broken Pipe d. Slope Loss e. Grate Clogging	 	 ☒ ☒ ☒ ☒ ☒	
3. Drainage Structures #1, #2, #3 a. Flapper Valve Functioning b. Broken/ Cracked pipe c. Cracked headwall structure	 ☒ 	 ☒ ☒	
4. Other Comments/ Problems:			

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Rochester Fire Academy
Cover System Inspection Checklist

Date: 05/30/2003

Inspected By: JMHF

VISUAL EVALUATION ITEMS	Condition (Check)				Remarks
	Acceptable	Not Acceptable	Present	Not Present	
1. North Disposal Area a. Vegetative cover integrity b. Erosion c. Settling d. Slope Loss e. Pooling/ Ponding f. Undesirable Species	✓ _____	_____ _____	_____ _____ _____ _____ _____	_____ ✓_____ ✓_____ ✓_____ ✓_____ ✓_____	
2. South Disposal Area a. Vegetative cover integrity b. Erosion c. Settling d. Slope Loss e. Pooling/ Ponding f. Undesirable Species	✓ _____	_____ _____	_____ _____ _____ _____ _____	_____ ✓_____ ✓_____ ✓_____ ✓_____ ✓_____	
3. Training Grounds Area a. Surface Coarse Integrity b. Cracking c. Potholes d. Pooling/ Ponding e. Undesirable Species	✓ _____	_____ _____	_____ _____ _____ _____	_____ ✓_____ ✓_____ ✓_____ ✓_____	
4. Other Comments/ Problems:					

Rochester Fire Academy
Groundwater Collection and Treatment System
Equipment Maintenance Schedule Checklist

Date: 05/30/2003
Inspected By: JMHF

Item	Maintenance Activity	Recommended Frequency	Date Performed	Notes
Sequestering Agent Feed Pumps	Replace Seal Rings	Annually	N/A	
	Replace Check Valve Balls	Annually	N/A	
	Replace Check Valve Springs	Annually	N/A	
Bag Filter Unit	Replace Bags	When differential pressure exceeds 10 psi	N/A	Unit #1: 4/28/2003
	Lubricate swing davits	Annually	N/A	
Feed Tank	Clean Solids	When necessary	N/A	5/13/2003
Air Stripper	Examine Trays	Bi-Weekly	N/A	
	Clean/ De-scale	Semi-annually*	N/A	
Activated Carbon Vessels	Backflush	When differential pressure exceeds 5 psi above clean container or 10 psi total	N/A	<i>CDs taken off-line permanently 05/00.</i>
	Replace	Based on analytical results	N/A	
Discharge Tank	Clean solids	As necessary	N/A	
* Frequency may need to be adjusted based on field observations.				

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Rochester Fire Academy
Storm Water Collection System Inspection Checklist

Date: 05/30/2003

Inspected By: JMHF

VISUAL EVALUATION ITEMS	Condition (Check)		Remarks
	Present	Not Present	
1. Drainage Channels a. Sediment Build-up b. Pooling/ Ponding c. Severe Cracking d. Erosion e. Slope Loss	 	 ☒ ☒ ☒ ☒ ☒	
2. South Disposal Are a. Sediment Build-up b. Pooling/ Ponding c. Broken Pipe d. Slope Loss e. Grate Clogging	 	 ☒ ☒ ☒ ☒ ☒	
3. Drainage Structures #1, #2, #3 a. Flapper Valve Functioning b. Broken/ Cracked pipe c. Cracked headwall structure	 ☒ 	 ☒ ☒	
4. Other Comments/ Problems:			

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Rochester Fire Academy
Cover System Inspection Checklist

Date: 08/20/2003
Inspected By: JMHF

VISUAL EVALUATION ITEMS	Condition (Check)				Remarks
	Acceptable	Not Acceptable	Present	Not Present	
1. North Disposal Area	✓				
a. Vegetative cover integrity	_____	_____			
b. Erosion			_____	_____✓_____	
c. Settling			_____	_____✓_____	
d. Slope Loss			_____	_____✓_____	
e. Pooling/ Ponding			_____	_____✓_____	
f. Undesirable Species			_____	_____✓_____	
2. South Disposal Area	✓				
a. Vegetative cover integrity	_____	_____			
b. Erosion			_____	_____✓_____	
c. Settling			_____	_____✓_____	
d. Slope Loss			_____	_____✓_____	
e. Pooling/ Ponding			_____	_____✓_____	
f. Undesirable Species			_____	_____✓_____	
3. Training Grounds Area	✓				
a. Surface Coarse Integrity	_____	_____			
b. Cracking			_____	_____✓_____	
c. Potholes			_____	_____✓_____	
d. Pooling/ Ponding			_____	_____✓_____	
e. Undesirable Species			_____	_____✓_____	
4. Other Comments/ Problems:					

Rochester Fire Academy
Groundwater Collection and Treatment System
Equipment Maintenance Schedule Checklist

Date: 08/20/2003
Inspected By: JMHF

Item	Maintenance Activity	Recommended Frequency	Date Performed	Notes
Sequestering Agent Feed Pumps	Replace Seal Rings	Annually	N/A	
	Replace Check Valve Balls	Annually	N/A	
	Replace Check Valve Springs	Annually	N/A	
Bag Filter Unit	Replace Bags	When differential pressure exceeds 10 psi	N/A	Unit #2: 06/20/2003
	Lubricate swing davits	Annually	N/A	
Feed Tank	Clean Solids	When necessary	N/A	06/20/2003
Air Stripper	Examine Trays	Bi-Weekly	N/A	
	Clean/ De-scale	Semi-annually*	N/A	
Activated Carbon Vessels	Backflush	When differential pressure exceeds 5 psi above clean container or 10 psi total	N/A	<i>CDs taken off-line permanently 05/00.</i>
	Replace	Based on analytical results	N/A	
Discharge Tank	Clean solids	As necessary	N/A	
* Frequency may need to be adjusted based on field observations.				

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Rochester Fire Academy
Storm Water Collection System Inspection Checklist

Date: 08/20/2003

Inspected By: JMHF

VISUAL EVALUATION ITEMS	Condition (Check)		Remarks
	Present	Not Present	
1. Drainage Channels a. Sediment Build-up b. Pooling/ Ponding c. Severe Cracking d. Erosion e. Slope Loss	 	 ☒ ☒ ☒ ☒ ☒	
2. South Disposal Are a. Sediment Build-up b. Pooling/ Ponding c. Broken Pipe d. Slope Loss e. Grate Clogging	 	 ☒ ☒ ☒ ☒ ☒	
3. Drainage Structures #1, #2, #3 a. Flapper Valve Functioning b. Broken/ Cracked pipe c. Cracked headwall structure	 ☒ 	 ☒ ☒	
4. Other Comments/ Problems:			

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