PERIODIC REVIEW REPORT
FOR PERIOD
JANUARY 2021 THROUGH DECEMBER 2021

ROCHESTER FIRE TRAINING ACADEMY
1200 SCOTTSVILLE ROAD
ROCHESTER, NEW YORK, 14624
NYSDEC SITE #828015

Prepared For: **City of Rochester**
Division of Environmental Quality
Rochester, New York

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1563 Lyell Avenue
Rochester, New York

Date: **January 2022**

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I. Executive Summary

A. Summary

The Rochester Fire Training Academy (RFA) site (Site) is located on the west bank of the Genesee River at 1200 Scottsville Road in the City of Rochester, Monroe County, New York. A Site location map is included as Figure 1. The Site is divided into five areas, which include the North Disposal Area (NDA), Training Grounds Area (TGA), Police Obstacle Course/Firing Range, South Disposal Area (SDA), and the Genesee Valley Park Area (GVPA). A Site map is included as Figure 2.

Based upon the results of remedial investigation activities, the types of contamination at the Site that were identified to require remediation included:

- Polychlorinated biphenyls (PCB's);
- Heavy metals, including lead and cadmium; and
- Volatile Organic Compounds (VOC's).

Remedial actions performed at the Site in accordance with the March 1993 Record of Decision include:

- Excavation and treatment of selected soils in the SDA and TGA, followed by on-site soil conditioning and placement in the NDA (completed);
- Excavation and off-site disposal of a smaller volume of soils (completed);
- Excavation and placement of GVPA soils in the NDA (completed);
- Restoration of the remediation areas (SDA, TGA and GVPA) (completed);
- Capping of the NDA (completed);
- Groundwater collection and treatment in the SDA (ongoing); and
- General Site management activities (ongoing).

B. Effectiveness of the Remedial Program

Progress made during the reporting period toward meeting the remedial objectives for the Site include continued operation and monitoring of the SDA groundwater collection and treatment system, and maintenance of the associated Site institutional and engineering controls in accordance with the general requirements of the Site Operation and Maintenance Manual. Monitoring data from the work completed to date indicates that the remedial program is currently meeting, and has the ability to achieve, the remedial objectives for the Site.

C. Compliance

No areas were identified as being currently out of compliance with the Site management and monitoring program requirements, as described in the current Operation and Maintenance Manual dated December 2017. As such, no steps are currently deemed necessary to correct areas of non-compliance.

D. Recommendations

PRR recommendations and proposed scheduling are detailed in Section VI.C. A summary of these recommendations is provided below.

1. Since residual contamination remains on the Site, applicable site management requirements, as specified in the current Operations and Maintenance Manual, should be continued.

2. Surface sealing of minor cracks, joints and paved surfaces should continue on an ongoing basis to maintain the overall integrity of the TGA cap. For the TGA, Monroe County is responsible for "maintaining the facility consistent with the Site Record of Decision and the New York State approved Operations and Maintenance Manual for the Site".

II. Site Overview

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 RFA's 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, some surficial contamination of park grounds did occur adjacent to the site along the Genesee River.

The City of Rochester signed an Order on Consent with the NYSDEC on May 5, 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 RIFS results indicated that area soils were contaminated with polychlorinated biphenyls (PCBs), lead, cadmium, and volatile organic compounds (VOCs). The primary focus was on the TGA, GVPA, and SDA portions of the property. Groundwater contamination at the RFA site, caused by the storage and disposal of solvents, was determined to be essentially confined to the SDA. SDA soils were shown to be contaminated with VOCs as well as PCBs and metals. Soils in the TGA and the GVPA were shown to be contaminated primarily with PCBs and metals.

Based on the results of the RIFS, a NYSDEC Record of Decision was published in March 1993 that specified remedial actions and objectives for the groundwater and soils to meet applicable standards, criteria, and guidelines (SCGs), and to protect human health and the environment. The selected remedy specified that heavily contaminated soils were to be treated and/or removed from the Site, with residual Site contamination to be addressed through natural attenuation supplemented by institutional and engineering controls, including capping/covering select areas for isolation and to minimize infiltration, and groundwater treatment for contaminant removal and hydraulic containment.

Specifically, 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 placed in the NDA and later capped with a soil/synthetic cover barrier layer. Excavated soils containing PCB concentrations greater than or equal to 50 mg/kg were disposed of off-site.

The groundwater treatment remedial component consists of a groundwater intercept trench and treatment plant installed at the SDA to provide for contaminant removal and a degree of hydraulic containment. Contaminated groundwater is collected via a 191-ft long collection trench, and pumped via a submersible pump station to the Groundwater Treatment System (GWTS) building located on the southwestern portion of the SDA. The GWTS processes groundwater through an air stripper to remove VOC's prior to discharge to the Monroe County sanitary sewer system. Operation of the GWTS was initiated in March 1998, and the GWTS discharge is permitted and regulated under a sanitary sewer industrial use permit granted by the Monroe County Department of Pure Waters (MCPW permit #705).

III. Monitoring Plan Compliance and Remedy Evaluation

A. Monitoring Plan Components

Monitoring and laboratory analyses were completed in accordance with the Operations and Maintenance Manual (O&MM) monitoring plan and Sewer Discharge Permit requirements. A summary of the routine monitoring and analyses is provided in the table below. Other site monitoring and inspections are as detailed in Section V.A.

Item	Frequency	Lab Analyses
Groundwater Monitoring Well Sampling	Semi-Annual	VOCs + MTBE (EPA 601/602)
GWTS Influent Sampling	Quarterly	VOCs (EPA 624), Pesticides (EPA 608)
GWTS Effluent Sampling	Monthly	Purgeable Halocarbons, Purgeable Aromatics, pH, flow rate
	Quarterly	Metals, Pesticides, Diethyl Phthalate

B. Analytical Monitoring Data

Groundwater sampling from monitoring wells was performed semi-annually, in the months of May and November of the review period, in general accordance with the schedule and procedures specified in the O&MM (including Appendices E.1 through E.4). GWTS sampling was performed in general accordance with Site (O&MM) and current Sewer Use Permit requirements. Samples intended for laboratory analyses were collected and stored in the appropriate polyethylene or glass bottles, preserved in the field, and transferred within allowable hold times to an ELAP-certified laboratory for analysis.

Summary tables of the most recent monitoring results, including the current reporting period (January through December 2021), are provided in Appendix A, and graphical trend lines and historical well data for select contaminants of concern (1998 through 2021) are included in Appendix B to this report. The upgradient wells MW-6, MW-9, and MW-10 are monitored to establish background groundwater quality. The remaining wells are monitored to establish the downgradient water quality. Refer to Figure 3 for the monitoring well locations.

A full copy of the analytical laboratory reports for analyses completed during the current PRR reporting period are included in Appendix C. A brief evaluation of the data and trends for the three monitored remedial areas is provided below (see Section III.D. for analysis of GWTS analytical data).

NDA: Upgradient well MW-10I continues to consistently show MTBE in the 0 to 10 µg/l range. Downgradient well MW-11I exhibited concentrations of vinyl chloride in the range of 234 to 476 µg/l from 2013 through 2020, slightly above the historical range of 82 to 273 µg/l observed at this location from 2005 through 2012; however, levels appear to be decreasing with time, with 2021 levels returning to the previous historical range. With the exception of 1,2-dichloroethane (detected from 2019 through 2021, and appear to also be decreasing over time), no other VOC's have been reported above detectable levels more than once since initiation of monitoring. MW-11I will continue to be monitored to identify any long-term trends.

TGA: Upgradient well MW-6I continues to show low concentrations of vinyl chloride in a fairly consistent range (0 to 10 µg/l over the past 8 years). Vinyl chloride concentrations at downgradient well MW-8I appear to be decreasing from the somewhat elevated levels observed from 2007 to 2018, with the 2019 through 2021 results (14 to 32 µg/l) at this location representing some of the lowest reported vinyl chloride concentrations since monitoring started in 1998. No other VOC's have been detected more than a few times at MW-8I over the past 10+ years of monitoring, and the few intermittent reported VOC detections have been at low concentrations (13 µg/l or less). Benzene at downgradient well MW-15S was detected multiple times at concentrations of up to 291 µg/l in earlier monitoring events (prior to 2006), but no detectable concentrations of benzene or any other VOC have been reported at MW-15S since 2011.

SDA: Upgradient (MW-9D) and downgradient (MW-7S and MW-7I) wells each experienced an increase in concentrations of one or more of the monitored chlorinated VOC's (TCE, DCE and vinyl chloride) over the period of 2010 to 2013, which directly corresponded to the period of the GWTS shutdown. The elevated VOC concentrations have since mostly returned to historical, typical ranges following restart of the GWTS in April 2013, and VOC concentrations in general at these wells remain relatively stable.

Overall, based upon the analytical results for the current monitoring period, monitoring well concentrations of VOC's in the NDA, TGA and SDA were generally observed to remain within their historical stable and consistent ranges, which demonstrates the effectiveness of the cover systems and the groundwater intercept trench in minimizing contaminant migration.

C. GWTS Flow Data

The GWTS is intended to be operated continuously, to the extent practical (weekends included), to remove contaminants and maintain a depressed groundwater table in the vicinity of the groundwater collection trench. In 2021, the GWTS experienced three instances of extended down time (a total of 26 days) attributable to downstream sewer pump station outage issues and plant maintenance purposes. A summary of the annual GWTS flow data (total gallons processed and discharged) over the most recent five-year period is as follows:

	Period of Operation				
	2017	2018	2019	2020	2021
Total Flow (gal)	1,455,093	1,212,908	1,133,656	935,131	998,375
Operating Days	360	332	360	313	339
Avg. Daily Flow (gal)	4,042	3,653	3,149	2,988	2,945

D. Contaminant Removal

Based upon measured flowrates and analytical monitoring of the groundwater treatment system influent concentrations, the mass of contaminants (VOC's) removed from the Site by the GWTS for the most recent five-year period is as follows:

	Period of Operation				
	2017	2018	2019	2020	2021
Total Flow (gal)	1,455,093	1,212,908	1,133,656	935,131	998,375
Avg. VOC's (µg/l)	9,756	12,219	11,432	10,291	10,381
Net VOC Removal (lb)	112	124	105	80	86

In terms of treatment system effectiveness, effluent data demonstrates that the wastewater treatment system process has proven effective and has generally maintained compliance with the applicable effluent discharge limits since it's time of start-up. The lone exception to this is a single discharge permit exceedance occurring in July of 2009 which was attributed to a faulty flow sensor controlling the operation of the air stripper blower.

E. Air Emissions

Volatile organic compounds (VOCs) liberated from the groundwater are emitted to the outdoor atmosphere in the air discharged from the GWTS air stripper, which has been identified as an air emission point source. The air stripper is exempt from formal permitting requirements; however, monitoring is performed to confirm compliance with NYSDEC-approved air loadings listed in the O&MM. VOC emissions are estimated by mass balance using monitored flow rates, and influent and effluent VOC concentrations. Results are summarized in the chart in Appendix B, which shows that emissions continue to be well within approved levels.

F. Evaluation of Remedy Performance, Effectiveness and Protectiveness

Based upon the results of performance monitoring conducted over the course of time covered by this PRR, the effectiveness of the GWTS and associated Site remedial activities is summarized as follows:

- The GWTS extraction well/trench system is effective at capturing and removing VOC's from the SDA (4,668 pounds removed since startup i n 1998).

- The GWTS process is effective and meeting program objectives in treating the extracted groundwater sufficiently to comply with effluent sewer use limits.

- Groundwater depression created by operation of the GWTS appears to be effective and meeting program objectives in providing a degree of hydraulic containment within the SDA, as evidenced by static water level data and groundwater monitoring results for the wells in this area.

- The Site cap and cover systems appear to be generally effective and meeting program objectives in minimizing the potential for contaminant migration, as evidenced by groundwater monitoring results for the downgradient wells in these areas.

- The long-term efficiency of the remedy (natural attenuation supplemented by VOC removal by the GWTS) in achieving ultimate Site cleanup goals remains undetermined, as long-term trends in groundwater contaminant concentrations remain difficult to discern; however, this is common for natural attenuation, which is a relatively long-term process. The site conditions (including prevalence of vinyl chloride over other chlorinated organic forms) appear to remain amenable to and/or indicative of natural attenuation, and the general stability of the monitoring data demonstrates that the Site activities appear to remain protective of the environment while enabling natural attenuation to occur.

G. Monitoring Deficiencies

Site media monitoring (groundwater and GWTS) was observed to generally comply with the current O&MM monitoring plan and Sewer Discharge Permit requirements. No significant monitoring deficiencies were noted for the 2021 monitoring period.

H. Conclusions and Recommendations for Changes

There are no recommendations for changes or improvements to the current monitoring program.

IV. IC/EC Compliance Report

A. IC/EC Requirements/Compliance

1. A description of source documentation, applicable control, control objective, and how performance of the control is evaluated is provided below:

   Operations and Maintenance Manual (O&MM): The objective of the O&MM is to manage Site contamination that remains above regulatory criteria in a manner that is protective of human health and the environment. The O&MM covers management, operations and monitoring of various Institutional and Engineering Controls. The performance of these controls is evaluated through monitoring and periodic certification.

   Controls on the Site covered under the O&MM include:

   - GWTS Operations (SDA), which are intended to provide for limited removal of VOC's and to provide a degree of hydraulic containment to limit/prevent contaminant migration. The effectiveness of the GWTS is evaluated based on review of static water levels and analytical monitoring data for nearby groundwater monitoring wells and GWTS influent and effluent monitoring data;

   - Cover Systems (NDA and TGA), which are intended to limit and/or prevent stormwater infiltration into contaminated soils, preventing migration of contaminants while the soils undergo the natural attenuation process. The effectiveness of the cover system is evaluated based on review of analytical monitoring data from nearby groundwater monitoring wells;

   - Site Stormwater Collection System, which is intended to direct stormwater away from the Site and limit and/or prevent stormwater infiltration into area soils, preventing migration of contaminants while the soils undergo the natural attenuation process. The effectiveness of the stormwater collection system is evaluated based on review of analytical monitoring data from nearby groundwater monitoring wells;

   - Facility Access System, which is intended to facilitate access to the Site by authorized personnel while limiting unauthorized access to the remedial areas to minimize the potential for vandalism, outside interference with ongoing remedial processes, and potential third-party exposure to contaminants. The effectiveness of the access system is evaluated based on review of the condition of these access facilities, and the apparent occurrence (or non-occurrence) of unauthorized access incidents.

Record of Decision: The Record of Decision (ROD) includes requirement for a deed restriction and requirement for notification and approval from NYSDEC prior to any physical alteration or construction constituting a substantial change to the use of the Site. This is intended to assist in management of soil and historic fill material during future activities that would penetrate, encounter or disturb remaining contamination; to prevent human exposure to contaminants; and to protect the environment from migration of contaminants. The effectiveness of the deed restriction is evaluated by adherence to the DEC notification and approval requirements prior to any change in Site use, and in meeting the objectives of the deed restriction as defined above.

2. Status

Each control is in place, is being adhered to by the City of Rochester, and appears to remain generally effective as of the date of this report.

While the ROD-required deed restriction is in place, it should be noted that the Declaration of Covenants and Restrictions was revised by the City in 2021 and filed with Monroe County Clerks' office to reflect real property changes at the site including the Site's new property address (1200 Scottsville Road), and the parcel tax map number (Section Block Lot # 13518000020020000000). The corrected Declaration of Covenants and Restrictions is attached as Appendix F.

It should also be noted that, as detailed in prior Periodic Review Reports (PRRs) for this site, Monroe County (lessee of the TGA portion of the site) is responsible for "maintaining the facility consistent with the Site Record of Decision and the New York State approved Operations and Maintenance Manual for the Site". Surface sealing of minor cracks, joints and paved surfaces continues to be provided by Monroe County on an ongoing basis to maintain the overall integrity of the TGA cap.

3. Corrective Measures

None Required

4. Conclusions and Recommendations for Changes

The controls are being effectively implemented as of the date of this report. While no significant changes are deemed necessary, minor recommendations for maintenance and/or improvements to the existing IC/EC's are as described above and in Section VI of this report.

B. Certification

Certification Statement and forms are included as Appendix E to this report.

V. Operation & Maintenance Manual (O&MM) Compliance Report

A. Components of O&MM

Documentation of Site monitoring and inspections completed in accordance with the O&MM requirements are as indicated in the table below. Copies of these logs and inspection forms are included in Appendix D. Media sampling and analytical monitoring activities are as detailed in Section III.A.

Item	Frequency
GWTS Operations Log (Flow, maintenance data)	Daily (when site attended)
Cover System Inspection	Annual
Stormwater Collection System Inspection	Annual

B. O&MM Activities

O&MM activities completed during the current reporting period include general maintenance for the GWTS, general maintenance of the cover system (vegetation and soil cover maintenance), and general maintenance of the Site fencing. Additional details on Site activities and dates of completion are included in the Site logs and inspection forms included in Appendix D.

C. Evaluation of Remedial Systems

The O&MM activities completed over the reporting period were appropriate to maintain operational and treatment efficiencies, and to enable the remedial systems to function as intended and as designed in order to meet the remedial objectives.

D. O&MM Deficiencies

O&MM activities were completed in substantial accordance with the O&MM, and no significant deficiencies were noted.

E. Conclusions and Recommendations for Improvements

The O&MM was revised in December 2016 to reflect and document changes to the GWTS and the associated monitoring program that have occurred since the original OM&M was prepared in 1999.

No additional improvements to the O&MM are recommended at this time.

VI. Conclusions and Recommendations

A. Compliance

Except as otherwise noted herein, the requirements of the following plans were met during the reporting period:

- IC/EC requirements.
- Monitoring Plan requirements.
- O&MM requirements.

B. Performance and Effectiveness of Remedy

An evaluation of the components of the O&MM during this reporting period indicates that, as of the end date of this monitoring period:

- the IC/EC controls appear to remain generally protective of human health and the environment;
- the O&MM (December 2016) monitoring plan is sufficient to monitor the performance of the remedy;
- the O&MM (December 2016) is adequate to operate and maintain the GWTS; and
- the remedial program is compliant with, and remains capable of, achieving the remedial objectives for the Site.

C. Recommendations

Since residual contaminants remain at the Site, it is recommended that applicable aspects of the O&MM continue to be implemented at this Site

While the Site continues to be operated in general compliance with the remedial plan requirements, and while it has been determined that the remedy is currently meeting the remedial objectives for the Site, the following recommendations are provided in accordance with IC/EC compliance, O&MM requirements, and/or to improve Site and remedial operations, monitoring, and efficiencies:

- Surface sealing of minor cracks, joints and paved surfaces is needed on an ongoing basis to maintain the overall integrity of the TGA cap. For the TGA, Monroe County is responsible for “maintaining the facility consistent with the Site Record of Decision and the New York State approved Operations and Maintenance Manual for the Site”.

FIGURES

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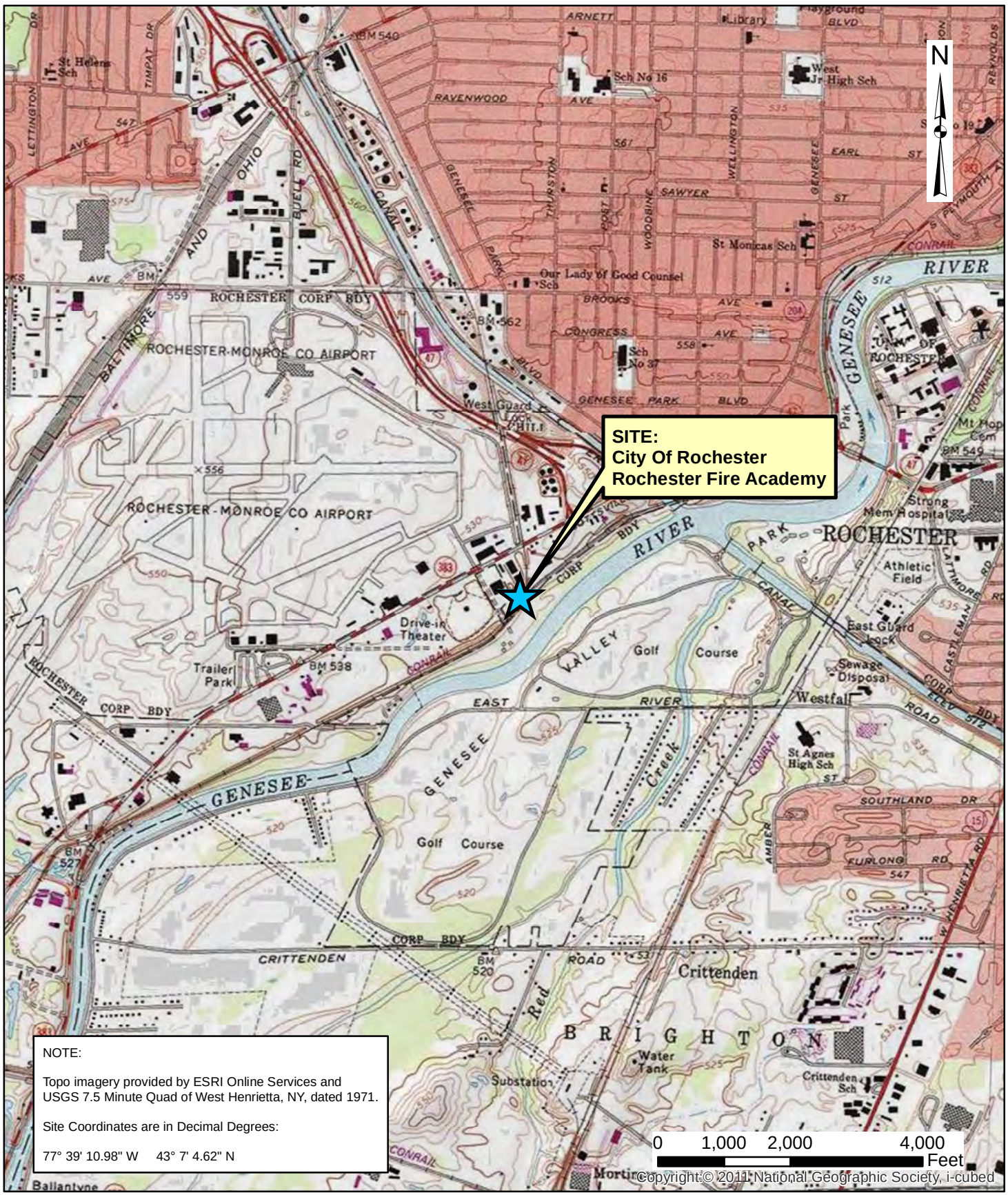
Last Date Saved: 16 Oct 2013



NOTE:

Topo imagery provided by ESRI Online Services and USGS 7.5 Minute Quad of West Henrietta, NY, dated 1971.

Site Coordinates are in Decimal Degrees:

77° 39' 10.98" W 43° 7' 4.62" N

Date: 10-16-2013 Drawn By: RJM Scale: AS NOTED	day **DAY ENVIRONMENTAL, INC.** **Environmental Consultants** **Rochester, New York 14606** **New York, New York 10170**	Project Title: CITY OF ROCHESTER ROCHESTER FIRE ACADEMY ROCHESTER, NEW YORK PERIODIC REVIEW REPORT - 2021 Drawing Title: Project Locus Map	Project No. 4839C-13 FIGURE 1

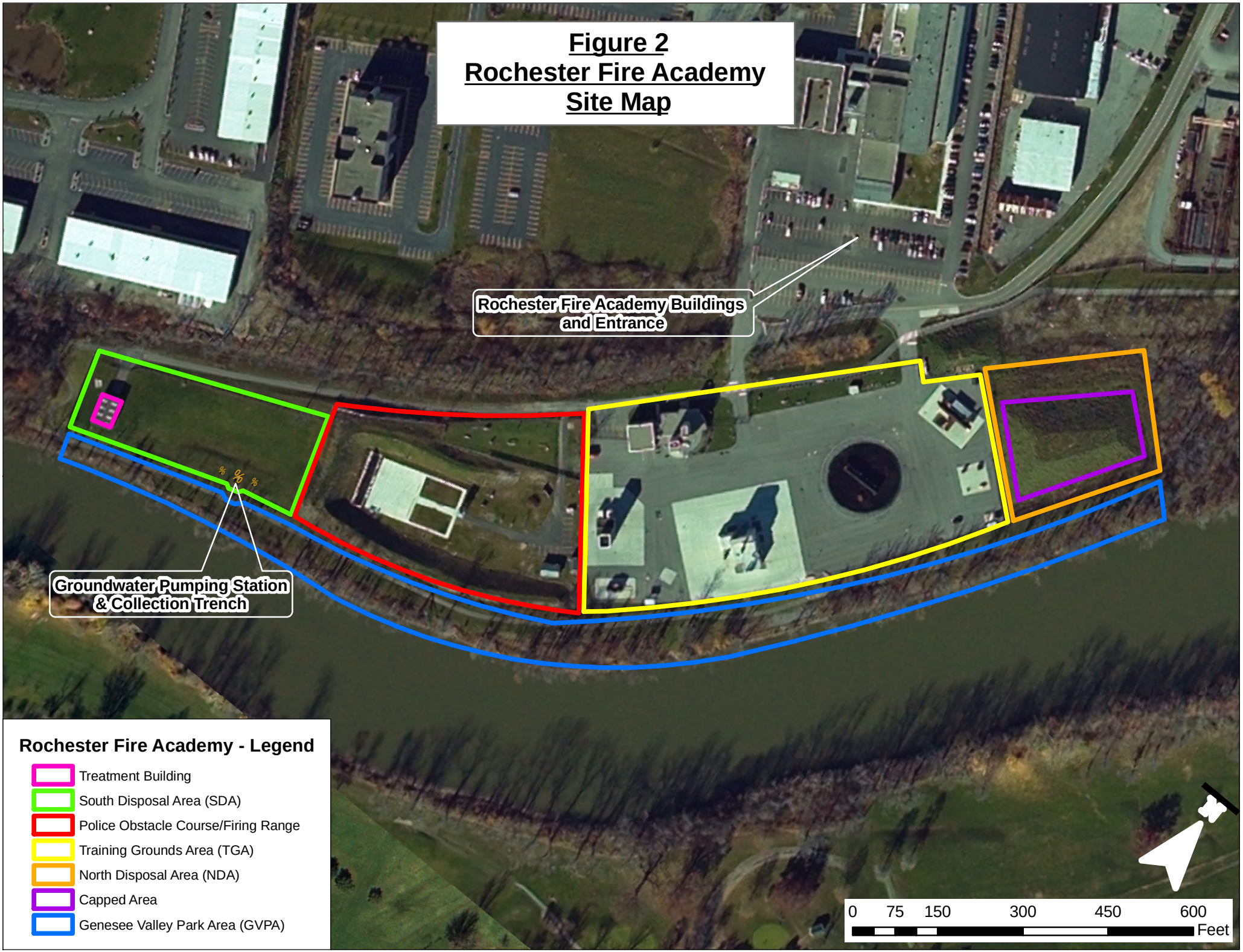
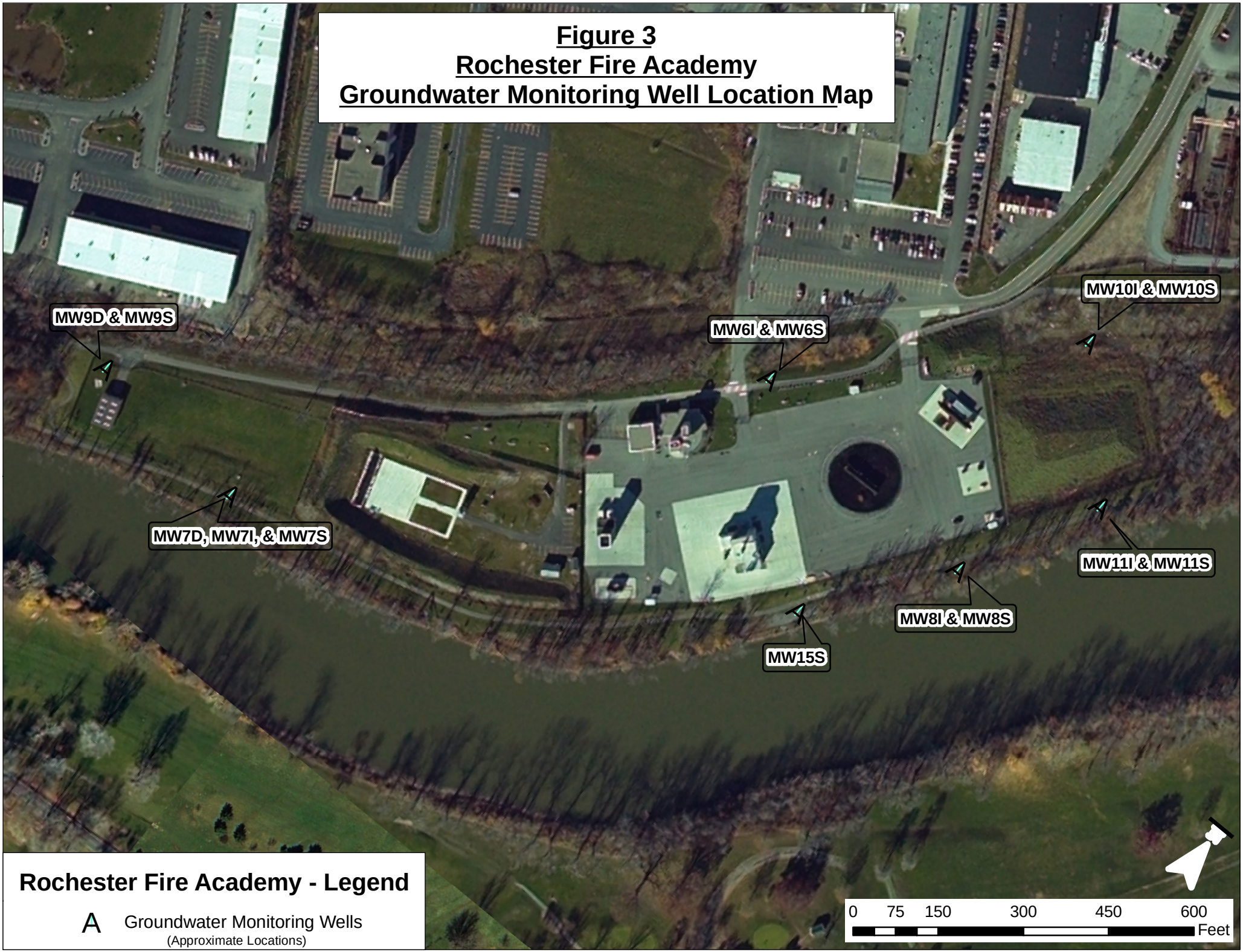


Figure 2
Rochester Fire Academy
Site Map
Rochester Fire Academy Buildings and Entrance
Groundwater Pumping Station & Collection Trench
Rochester Fire Academy - Legend
Treatment Building
South Disposal Area (SDA)
Police Obstacle Course/Firing Range
Training Grounds Area (TGA)
North Disposal Area (NDA)
Capped Area
Genesee Valley Park Area (GVPA)
0 75 150 300 450 600
Feet

Figure 3
Rochester Fire Academy
Groundwater Monitoring Well Location Map



APPENDIX A

ANALYTICAL DATA SUMMARY TABLES

(January 2021 through December 2021,
With 5-Year Well Summary Data)

Rochester Fire Academy
GWTS Influent
Quarterly Grab Sampling Monitoring Results

Parameter	2/26/2021	5/27/2021	8/30/2021	11/30/2021
Total Volatiles (EPA 624) (ug/L)				
Vinyl Chloride	1590	1070	1140	1390
Chloroethane	508	341	305	433
1,1 - Dichloroethene	251	ND	ND	198
1,1 - Dichloroethane	9270	6140	7350	6970
1,1,1 - Trichloroethane	1610	1230	684	940
Trichloroethene	ND	ND	ND	ND
Toluene	104	ND	ND	ND
Acetone	ND	ND	ND	ND
Methylene Chloride	ND	ND	ND	ND
Total Pesticides (EPA 608) (ug/L)				
4,4-DDD	ND	ND	ND	ND
4,4-DDE	ND	ND	ND	ND
delta-BHC	ND	ND	ND	ND
cis-Chlordane	ND	ND	ND	ND
4,4'-DDT	ND	ND	ND	ND
Endosulfan I	ND	ND	ND	ND
Endrin Aldehyde	ND	ND	ND	ND
Aldrin	ND	ND	ND	161
Heptachlor	ND	ND	ND	ND

Rochester Fire Academy
GWTS Effluent VOC
Quarterly Grab Sampling Results

Parameter	2/26/2021	5/27/2021	8/30/2021	11/30/2021
Total Volatiles (EPA 624) (ug/L)				
Vinyl Chloride	ND	3.07	ND	ND
Chloroethane	ND	2.12	ND	ND
1,1 - Dichloroethene	ND	ND	ND	ND
1,1 - Dichloroethane	6.98	51.4	4.26	2.97
1,2 - Dichloroethane	ND	ND	ND	ND
1,1,1 - Trichloroethane	ND	8.10	ND	ND
trans-1,2-Dichloroethene	ND	ND	ND	ND
Trichloroethene	ND	ND	ND	ND
Benzene	ND	ND	ND	ND
Methylene Chloride	ND	ND	ND	ND
Toluene	ND	ND	ND	ND

Rochester Fire Academy
GWTS Effluent
Grab Sampling Results (Metals)

Parameter	2/26/2021	5/27/2021	8/30/2021	11/30/2021
Total Metals (mg/L)				
Arsenic	0.00618	ND	0.00667	ND
Cadmium	ND	ND	ND	ND
Chromium	ND	ND	ND	ND
Copper	ND	ND	ND	ND
Lead	ND	ND	ND	ND
Nickel	ND	ND	ND	ND
Selenium	ND	ND	ND	ND
Zinc	ND	ND	ND	ND

Rochester Fire Academy
GWTS Effluent
Grab Sampling Results (pH, EPA 608 Pesticides + select organics)

Parameter (ug/l)	2/26/2021	5/27/2021	8/30/2021	11/30/2021
pH (SU)	8.31	8.12	7.82	8.35
4,4-DDE	ND	ND	ND	ND
Aldrin	ND	ND	ND	ND
Endosulfan I	ND	ND	ND	ND
Heptaclor	ND	ND	ND	ND
Diethyl phthalate	ND	ND	ND	ND
Acetone	ND	ND	ND	ND
2-Butanone	ND	18.9	20.9	ND
4-methyl-2-pentanone	ND	ND	ND	ND

Notes

1 All concentrations except pH are reported in parts per billion (ppb).

2 Bis(2-ethylhexyl) phthalate and 4-Methylphenol (p cresol) are no longer required to be analyzed under the sewer discharge permit

Rochester Fire Academy
GWTS Air Stripper Emission Estimates

Total Volatiles (601/602) Parameter	O&MM Allowable (lb/hr)	2/26/2021	5/27/2021	8/30/2021	11/30/2021
Vinyl Chloride	0.004	0.001493	0.0011	0.0009	0.0015
Chloroethane	0.002	0.000477	0.0003	0.0002	0.0005
1,1 - Dichloroethene	0.002	0.0002357	0.0000	0.0000	0.0002
1,1 - Dichloroethane	0.02	0.0087	0.0061	0.0058	0.0074
1,2 - Dichloroethane	0.001	0.0000	0.0000	0.0000	0.0000
1,1,1 - Trichloroethane	0.158	0.0015	0.0012	0.0005	0.0010
Trichloroethene	0.019	0.0000	0.0000	0.0000	0.0000
Toluene	0.018	0.0001	0.0000	0.0000	0.0000
Acetone	0.032	0.0000	0.0000	0.0000	0.0000

Rochester Fire Academy
Groundwater Monitoring Well Results (2017 - 2021)

Total Volatiles (601/602) (ug/L)	Groundwater Standard or Guidance Value*	MW-6I 5/26/2017	MW-6I 11/16/2017	MW-6I 5/24/2018	MW-6I 12/20/2018	MW-6I 5/21/2019	MW-6I 11/27/2019	MW-6I 6/19/2020	MW-6I 11/5/2020	MW-6I 5/27/2021	MW-6I 11/10/2021
Vinyl Chloride	2	8.60	8.04	6.75	4.57	ND	3.92	6.72	6.43	3.53	3.38
Chloroethane	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1 - Dichloroethene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1 - Dichloroethane	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2 - Dichloroethane	0.6	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1 - Trichloroethane	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MTBE	10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzene	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene Chloride	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroform	7	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
trans 1,2-Dichloroethene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

*Groundwater standard or guidance value as referenced in NYSDEC TOGS 1.1.1 dated June 1998 as amended by the NYSDEC's supplemental table dated April 2000.

Rochester Fire Academy
Groundwater Monitoring Well Results (2017 - 2021)

Total Volatiles (601/602) (ug/L)	Groundwater Standard or Guidance Value*	MW-7S 5/26/2017	MW-7S 11/16/2017	MW-7S 5/24/2018	MW-7S 12/20/2018	MW-7S 5/21/2019	MW-7S 11/27/2019	MW-7S 6/19/2020	MW-7S 11/5/2020	MW-7S 5/27/2021	MW-7S 11/10/2021
Vinyl Chloride	2	ND	ND	2.28	ND	2.28	ND	ND	ND	ND	ND
Chloroethane	5	ND	ND	ND	5.8	ND	5.82	2.25	ND	ND	5.11
1,1 - Dichloroethene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	3.96
1,1 - Dichloroethane	5	54.6	280	42.7	206	37.8	168	91.9	210	88.6	345
1,2 - Dichloroethane	0.6	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene	5	ND	ND	2.65	ND	2.04	2.99	2.96	2.09	ND	4.18
1,1,1 - Trichloroethane	5	132	555	133	279	80.5	273	200	205	68	276
Trichloroethene	5	11.5	11.5	13.2	6.92	11.4	9.25	13.5	5.4	3.4	10.40
MTBE	10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzene	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	5	ND	ND	ND	ND	ND	ND	ND	14.7	ND	ND
Toluene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene Chloride	5	ND	ND	ND	ND	ND	6.13	ND	ND	ND	ND
Chloroform	7	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
trans 1,2-Dichloroethene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

*Groundwater standard or guidance value as referenced in NYSDEC TOGS 1.1.1 dated June 1998 as amended by the NYSDEC's supplemental table dated April 2000.

Rochester Fire Academy
Groundwater Monitoring Well Results (2017 - 2021)

Total Volatiles (601/602) (ug/L)	Groundwater Standard or Guidance Value*	MW-7I 5/26/2017	MW-7I 11/16/2017	MW-7I 5/24/2018	MW-7I 12/20/2018	MW-7I 5/21/2019	MW-7I 11/27/2019	MW-7I 6/19/2020	MW-7I 11/5/2020	MW-7I 5/27/2021	MW-7I 11/10/2021
Vinyl Chloride	2	114	112	160	96.2	88.1	109	158	92.8	52.4	109
Chloroethane	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1 - Dichloroethene	5	17.7	24.1	36.7	15.2	21.5	32.7	40.7	23.1	10.9	25.9
1,1 - Dichloroethane	5	278	319	442	191	220	291	571	267	195	248
1,2 - Dichloroethane	0.6	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1 - Trichloroethane	5	272	326	333	129	252	325	439	299	163	284
Trichloroethene	5	ND	13.7	ND	ND	ND	12.6	ND	6.53	ND	7.04
MTBE	10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzene	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	5	ND	ND	ND	ND	ND	7.73	5.75	ND	ND	7.60
Methylene Chloride	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroform	7	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
trans 1,2-Dichloroethene	5	ND	ND	ND	ND	ND	6.17	7.27	ND	ND	ND

*Groundwater standard or guidance value as referenced in NYSDEC TOGS 1.1.1 dated June 1998 as amended by the NYSDEC's supplemental table dated April 2000.

Rochester Fire Academy
Groundwater Monitoring Well Results (2017 - 2021)

Total Volatiles (601/602) (ug/L)	Groundwater Standard or Guidance Value*	MW-8I 5/26/2017	MW-8I 11/16/2017	MW-8I 5/24/2018	MW-8I 12/20/2018	MW-8I 5/21/2019	MW-8I 11/27/2019	MW-8I 6/19/2020	MW-8I 11/5/2020	MW-8I 5/27/2021	MW-8I 11/10/2021
Vinyl Chloride	2	416	173	7.18	581	30.6	27	31	21	31.5	14.8
Chloroethane	5	ND	ND	ND	13.0	ND	1.4	ND	ND	ND	ND
1,1 - Dichloroethene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1 - Dichloroethane	5	ND	ND	ND	ND	ND	1.24	ND	ND	ND	ND
1,2 - Dichloroethane	0.6	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1 - Trichloroethane	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MTBE	10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzene	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene Chloride	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroform	7	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
trans 1,2-Dichloroethene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

*Groundwater standard or guidance value as referenced in NYSDEC TOGS 1.1.1 dated June 1998 as amended by the NYSDEC's supplemental table dated April 2000.

Rochester Fire Academy
Groundwater Monitoring Well Results (2017 - 2021)

Total Volatiles (601/602) (ug/L)	Groundwater Standard or Guidance Value*	MW-9D 5/26/2017	MW-9D 11/16/2017	MW-9D 5/24/2018	MW-9D 12/20/2018	MW-9D 5/21/2019	MW-9D 11/27/2019	MW-9D 6/19/2020	MW-9D 11/5/2020	MW-9D 5/27/2021	MW-9D 11/10/2021
Vinyl Chloride	2	61.9	20.4	ND	41.7	4.29	7.43	65	4.21	4.35	5.75
Chloroethane	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1 - Dichloroethene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1 - Dichloroethane	5	ND	2.07	ND	ND	2.4	ND	1.09	2.38	ND	3.35
1,2 - Dichloroethane	0.6	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1 - Trichloroethane	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MTBE	10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzene	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene Chloride	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroform	7	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
trans 1,2-Dichloroethene	5	ND	ND	ND	ND	ND	ND	2.16	ND	ND	ND

*Groundwater standard or guidance value as referenced in NYSDEC TOGS 1.1.1 dated June 1998 as amended by the NYSDEC's supplemental table dated April 2000.

Rochester Fire Academy
Groundwater Monitoring Well Results (2017 - 2021)

Total Volatiles (601/602) (ug/L)	Groundwater Standard or Guidance Value*	MW-101 5/26/2017	MW-101 11/16/2017	MW-101 5/24/2018	MW-101 12/20/2018	MW-101 5/21/2019	MW-101 11/27/2019	MW-101 6/19/2020	MW-101 11/5/2020	MW-101 5/27/2021	MW-101 11/10/2021
Vinyl Chloride	2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroethane	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1 - Dichloroethene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1 - Dichloroethane	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2 - Dichloroethane	0.6	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1 - Trichloroethane	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MTBE	10	3.48	2.82	ND	5.97	ND	4.26	4.26	3.55	7.73	2.53
Benzene	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene Chloride	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroform	7	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
trans 1,2-Dichloroethene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

*Groundwater standard or guidance value as referenced in NYSDEC TOGS 1.1.1 dated June 1998 as amended by the NYSDEC's supplemental table dated April 2000.

Rochester Fire Academy
Groundwater Monitoring Well Results (2017 - 2021)

Total Volatiles (601/602) (ug/L)	Groundwater Standard or Guidance Value*	MW-11I 5/26/2017	MW-11I 11/16/2017	MW-11I 5/24/2018	MW-11I 12/20/2018	MW-11I 5/21/2019	MW-11I 11/27/2019	MW-11I 6/19/2020	MW-11I 11/5/2020	MW-11I 5/27/2021	MW-11I 11/10/2021
Vinyl Chloride	2	476	259	262	294	239	234	371	249	125	233
Chloroethane	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1 - Dichloroethene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1 - Dichloroethane	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2 - Dichloroethane	0.6	ND	ND	ND	ND	ND	88.2	128	114	49	18
Tetrachloroethene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1 - Trichloroethane	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MTBE	10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzene	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene Chloride	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroform	7	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
trans 1,2-Dichloroethene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

*Groundwater standard or guidance value as referenced in NYSDEC TOGS 1.1.1 dated June 1998 as amended by the NYSDEC's supplemental table dated April 2000.

Rochester Fire Academy
Groundwater Monitoring Well Results (2017 - 2021)

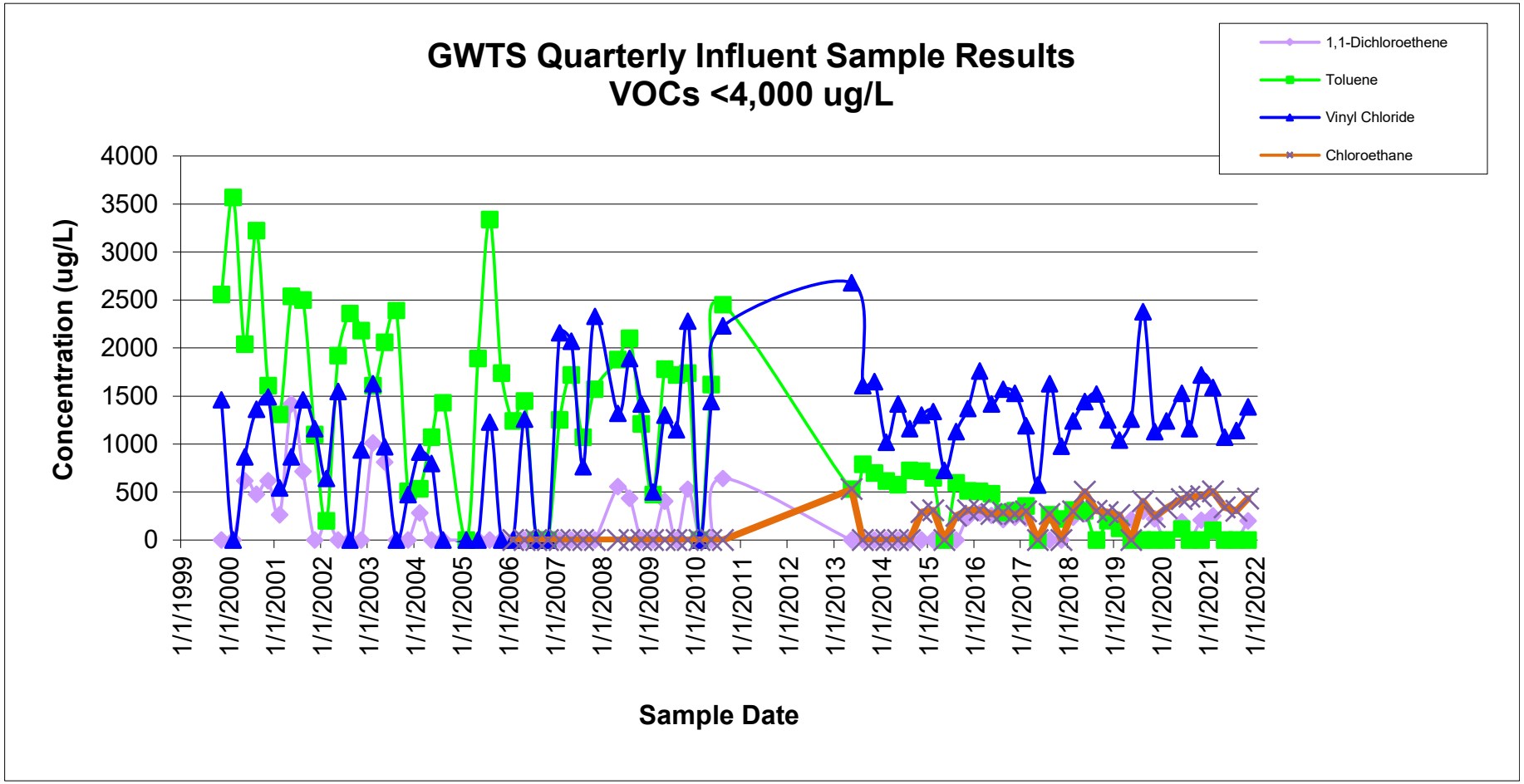
Total Volatiles (601/602) (ug/L)	Groundwater Standard or Guidance Value*	MW-15S 5/26/2017	MW-15S 11/16/2017	MW-15S 5/24/2018	MW-15S 12/20/2018	MW-15S 5/21/2019	MW-15S 11/27/2019	MW-15S 6/19/2020	MW-15S 11/5/2020	MW-15S 5/27/2021	MW-15S 11/10/2021
Vinyl Chloride	2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroethane	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1 - Dichloroethene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1 - Dichloroethane	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2 - Dichloroethane	0.6	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1 - Trichloroethane	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MTBE	10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzene	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene Chloride	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroform	7	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
trans 1,2-Dichloroethene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

*Groundwater standard or guidance value as referenced in NYSDEC TOGS 1.1.1 dated June 1998 as amended by the NYSDEC's supplemental table dated April 2000.

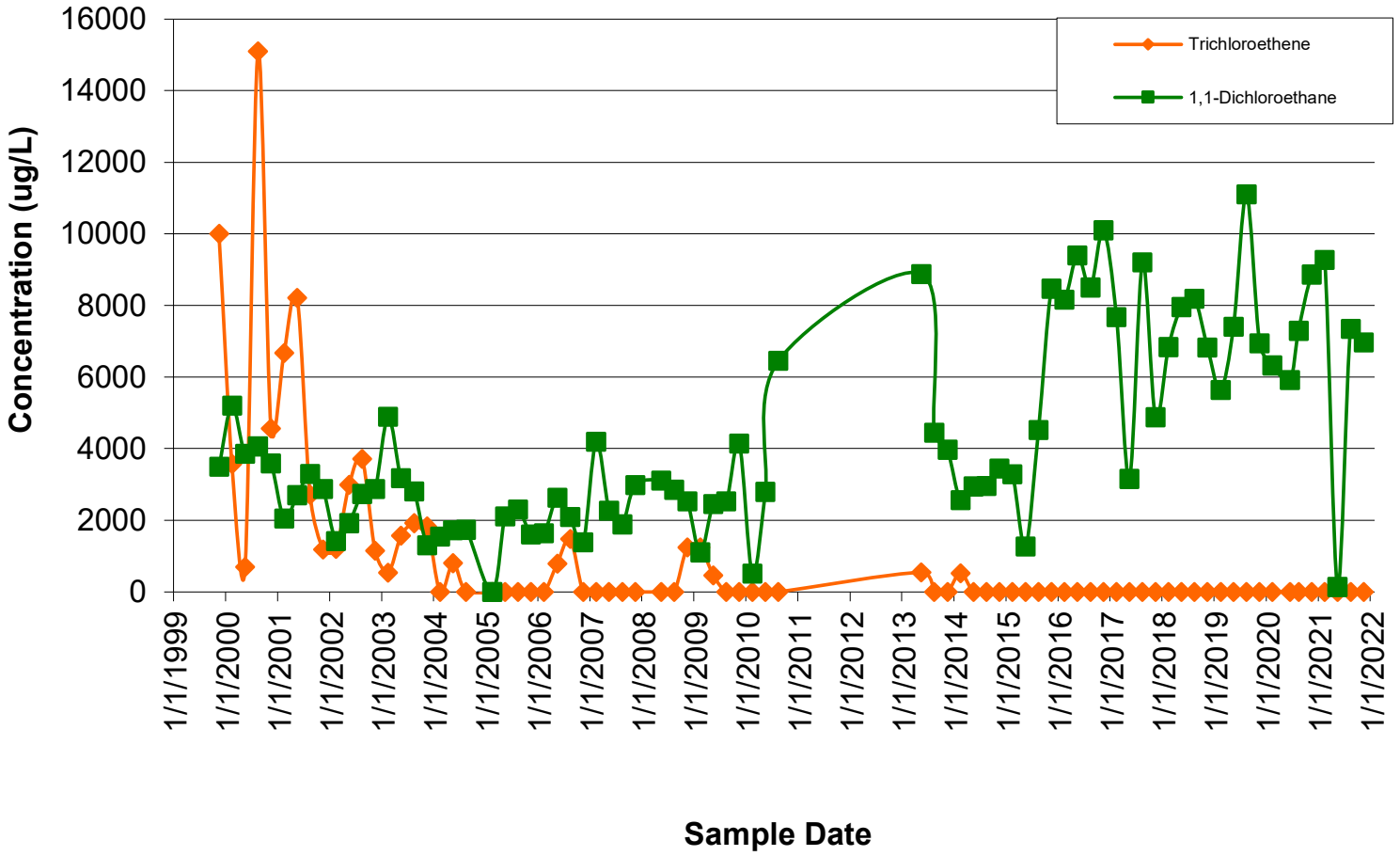
APPENDIX B

ANALYTICAL DATA
CHARTS AND GRAPHS

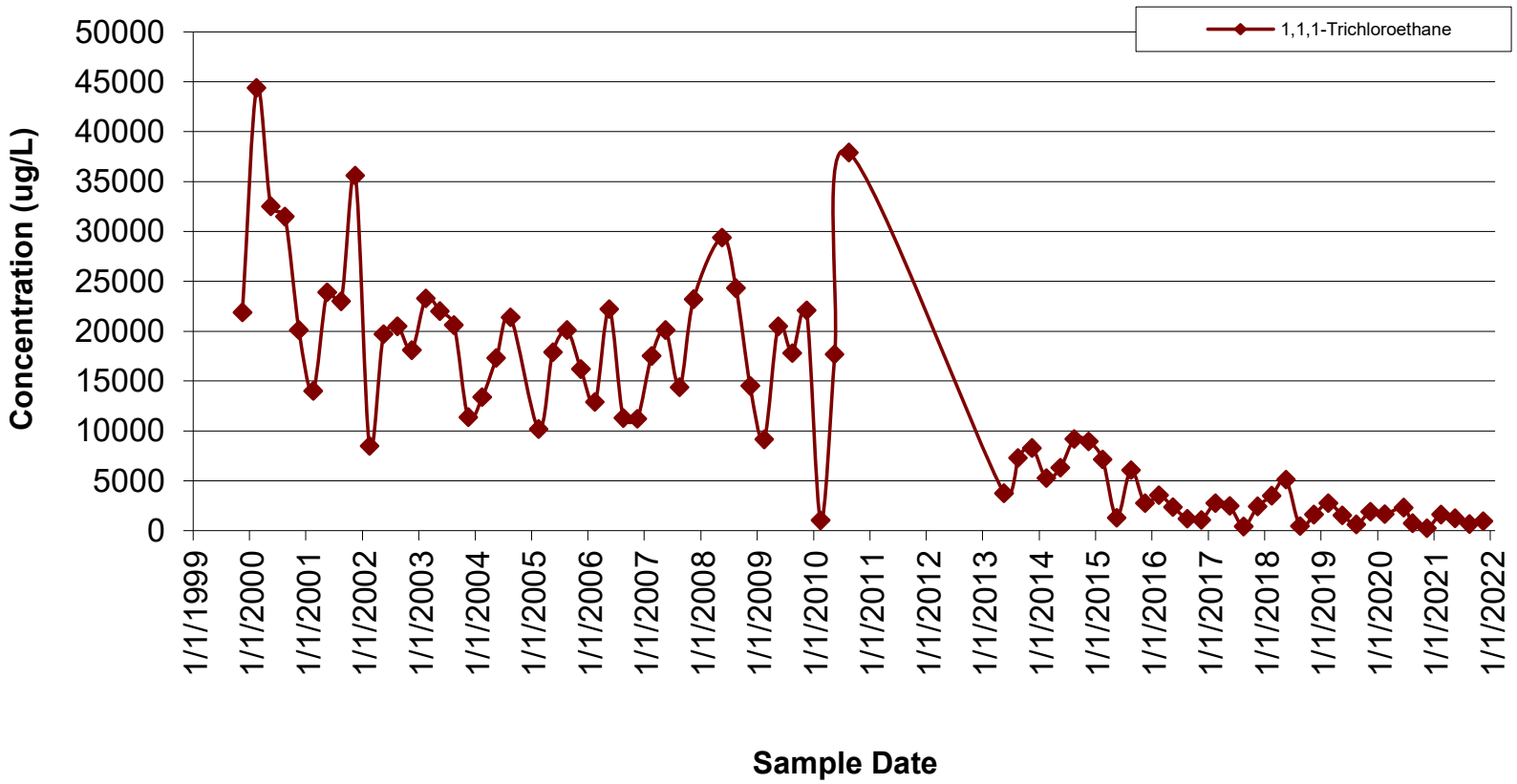
(Parameters of Interest,
1998 through 2021)

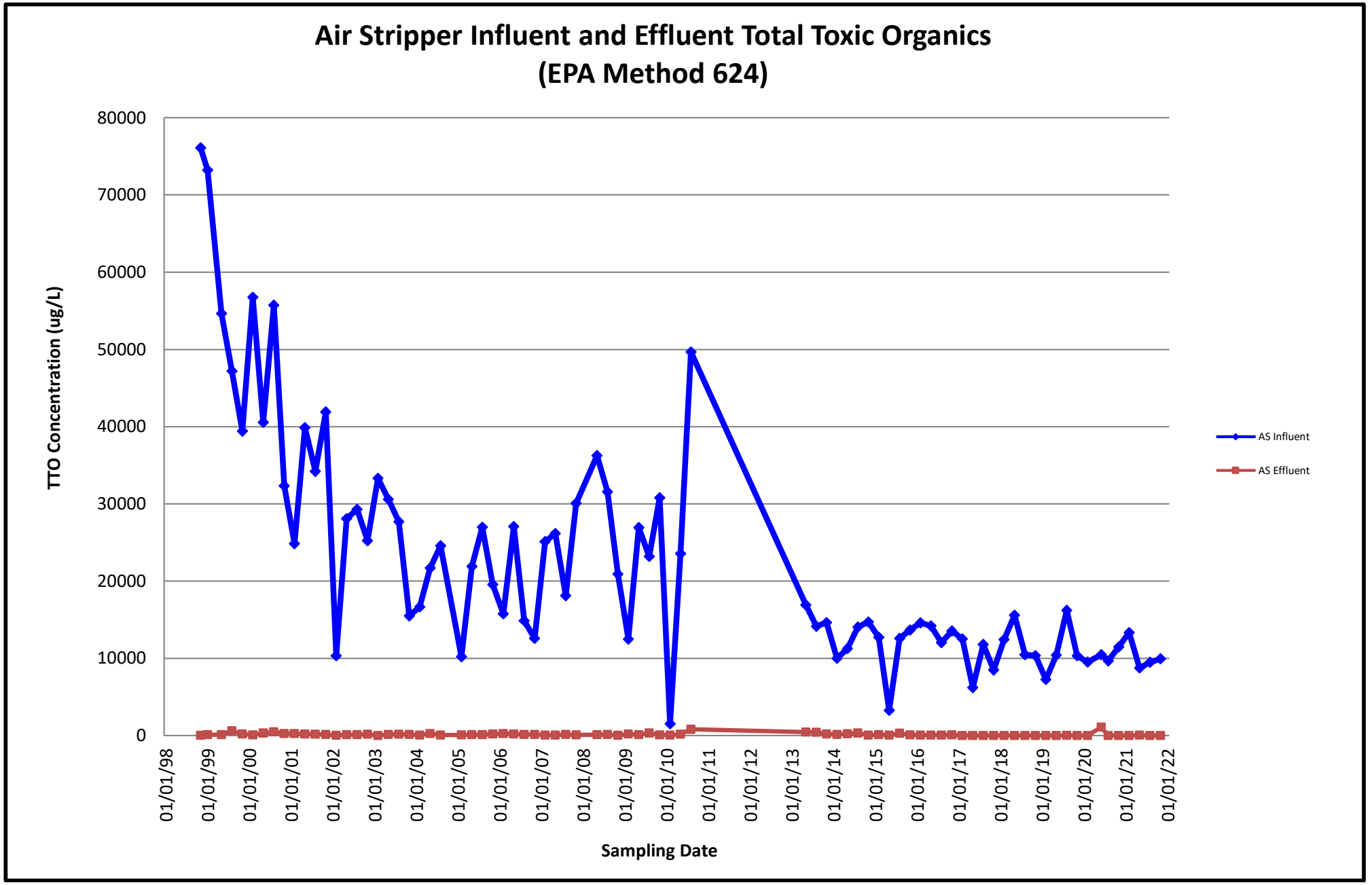

GWTS Quarterly Influent Sample Results
VOCs <4,000 ug/L
1,1-Dichloroethene
Toluene
Vinyl Chloride
Chloroethane
Concentration (ug/L)
4000
3500
3000
2500
2000
1500
1000
500
0
1/1/1999
1/1/2000
1/1/2001
1/1/2002
1/1/2003
1/1/2004
1/1/2005
1/1/2006
1/1/2007
1/1/2008
1/1/2009
1/1/2010
1/1/2011
1/1/2012
1/1/2013
1/1/2014
1/1/2015
1/1/2016
1/1/2017
1/1/2018
1/1/2019
1/1/2020
1/1/2021
1/1/2022
Sample Date

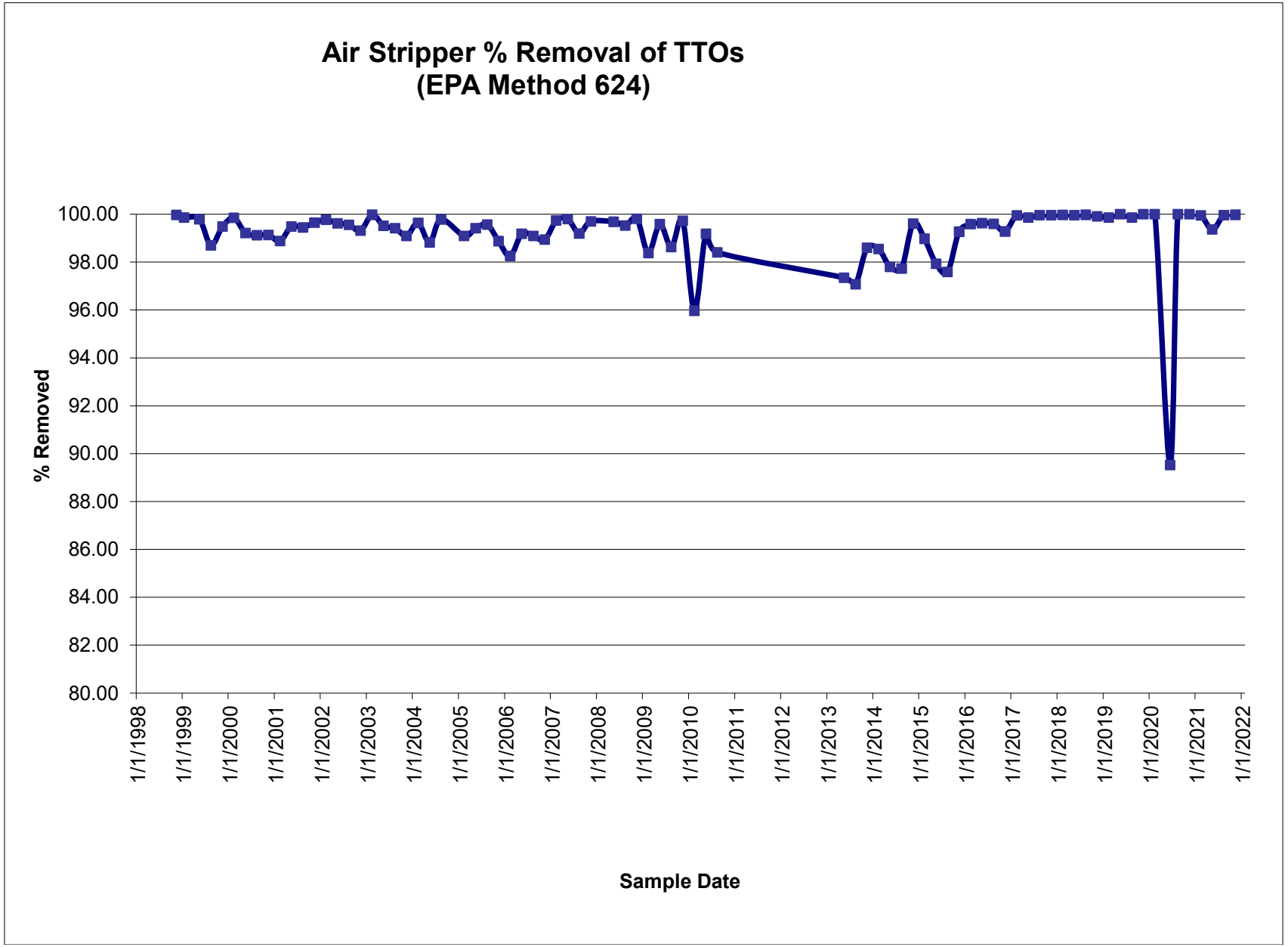
GWTS Quarterly Influent Sample Results
VOCs <16,000 ug/L

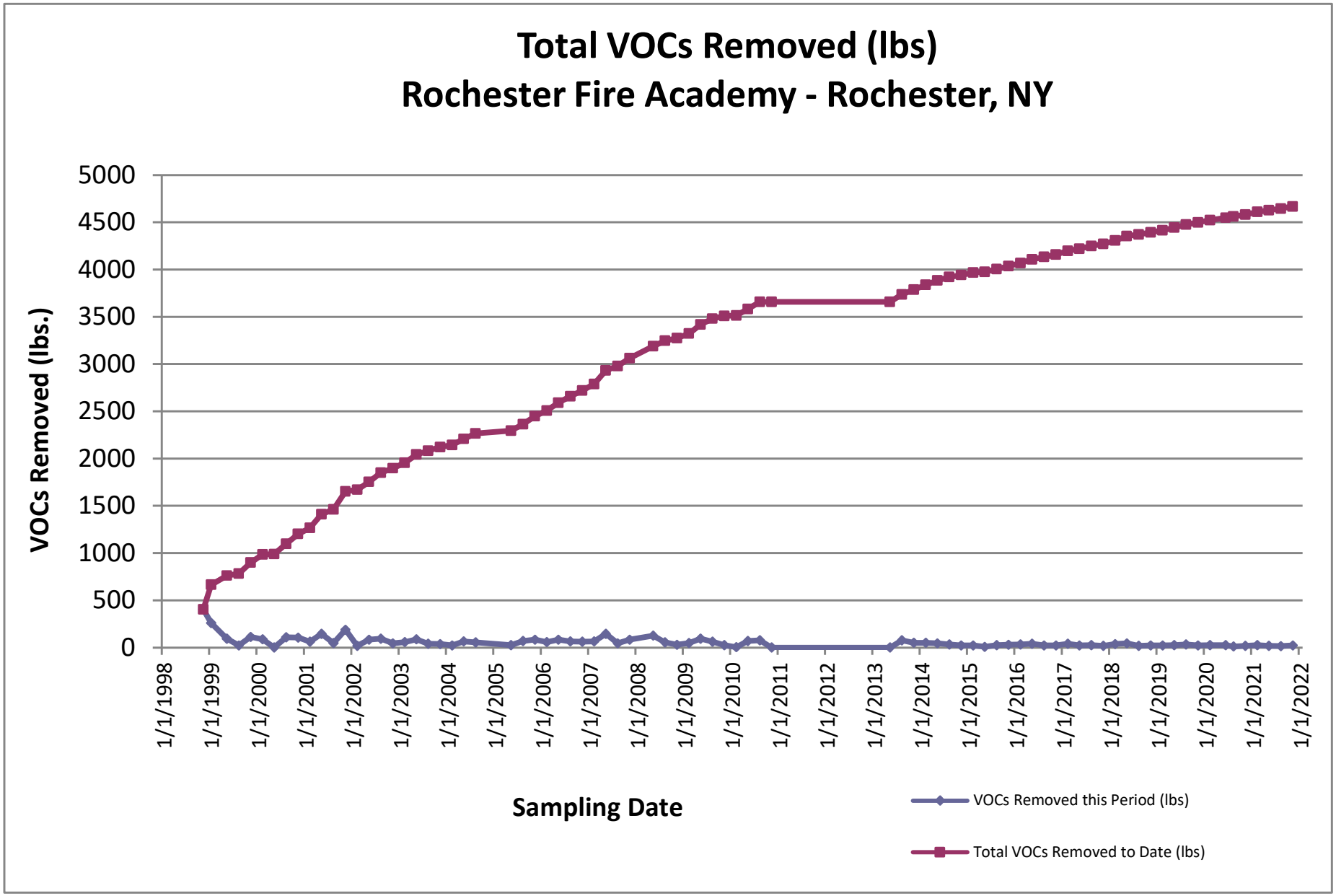


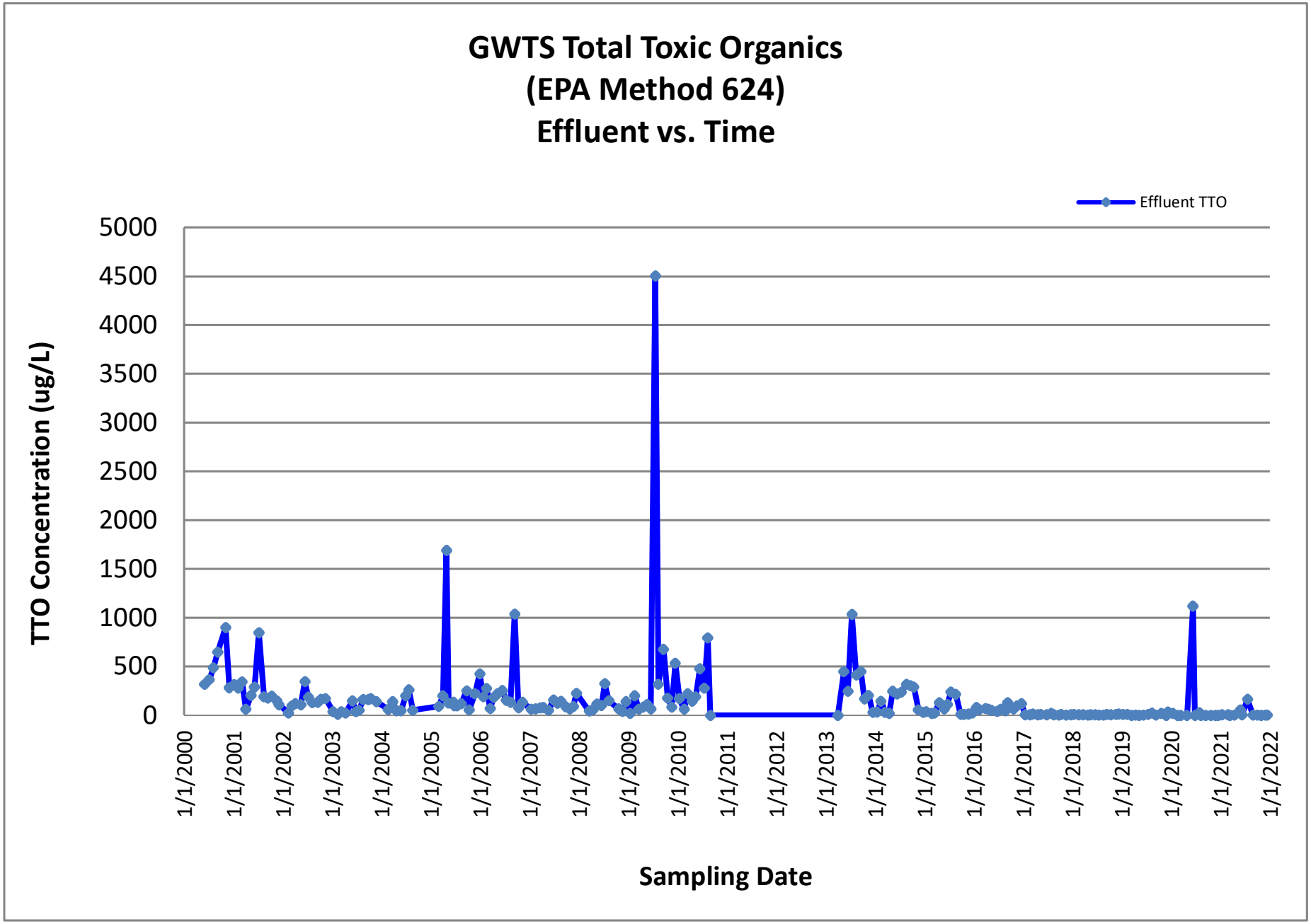
GWTS Quarterly Influent Sample Results
VOCs <45,000 ug/L

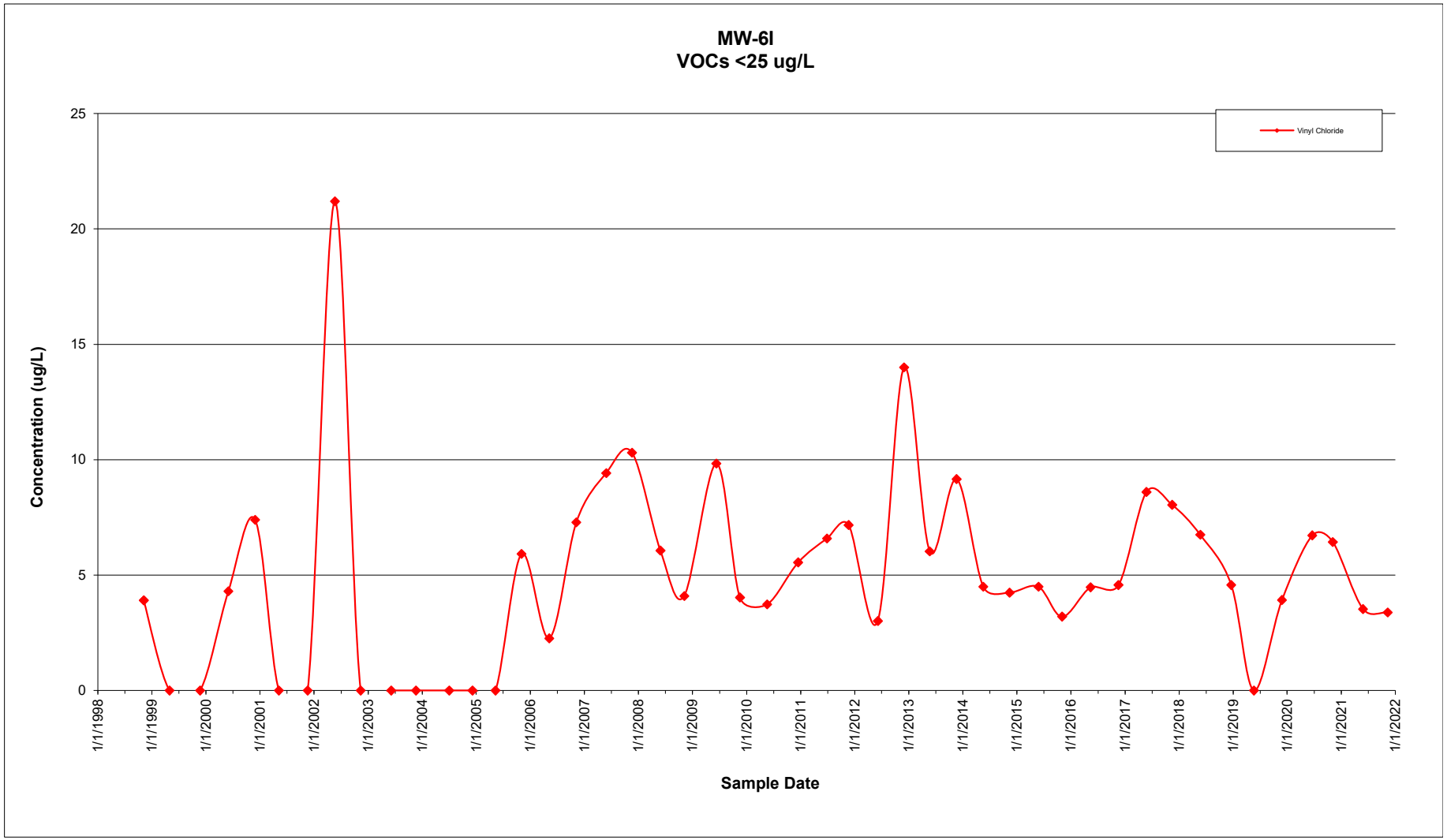



Air Stripper Influent and Effluent Total Toxic Organics
(EPA Method 624)
TTO Concentration (ug/L)
80000
70000
60000
50000
40000
30000
20000
10000
0
01/01/98
01/01/99
01/01/00
01/01/01
01/01/02
01/01/03
01/01/04
01/01/05
01/01/06
01/01/07
01/01/08
01/01/09
01/01/10
01/01/11
01/01/12
01/01/13
01/01/14
01/01/15
01/01/16
01/01/17
01/01/18
01/01/19
01/01/20
01/01/21
01/01/22
Sampling Date
AS Influent
AS Effluent


Air Stripper % Removal of TTOs
(EPA Method 624)
% Removed
100.00
98.00
96.00
94.00
92.00
90.00
88.00
86.00
84.00
82.00
80.00
1/1/1998
1/1/1999
1/1/2000
1/1/2001
1/1/2002
1/1/2003
1/1/2004
1/1/2005
1/1/2006
1/1/2007
1/1/2008
1/1/2009
1/1/2010
1/1/2011
1/1/2012
1/1/2013
1/1/2014
1/1/2015
1/1/2016
1/1/2017
1/1/2018
1/1/2019
1/1/2020
1/1/2021
1/1/2022
Sample Date


Total VOCs Removed (lbs)
Rochester Fire Academy - Rochester, NY
VOCs Removed (lbs.)
5000
4500
4000
3500
3000
2500
2000
1500
1000
500
0
1/1/1998
1/1/1999
1/1/2000
1/1/2001
1/1/2002
1/1/2003
1/1/2004
1/1/2005
1/1/2006
1/1/2007
1/1/2008
1/1/2009
1/1/2010
1/1/2011
1/1/2012
1/1/2013
1/1/2014
1/1/2015
1/1/2016
1/1/2017
1/1/2018
1/1/2019
1/1/2020
1/1/2021
1/1/2022
Sampling Date
VOCs Removed this Period (lbs)
Total VOCs Removed to Date (lbs)


GWTS Total Toxic Organics
(EPA Method 624)
Effluent vs. Time
Effluent TTO
TTO Concentration (ug/L)
5000
4500
4000
3500
3000
2500
2000
1500
1000
500
0
1/1/2000
1/1/2001
1/1/2002
1/1/2003
1/1/2004
1/1/2005
1/1/2006
1/1/2007
1/1/2008
1/1/2009
1/1/2010
1/1/2011
1/1/2012
1/1/2013
1/1/2014
1/1/2015
1/1/2016
1/1/2017
1/1/2018
1/1/2019
1/1/2020
1/1/2021
1/1/2022
Sampling Date

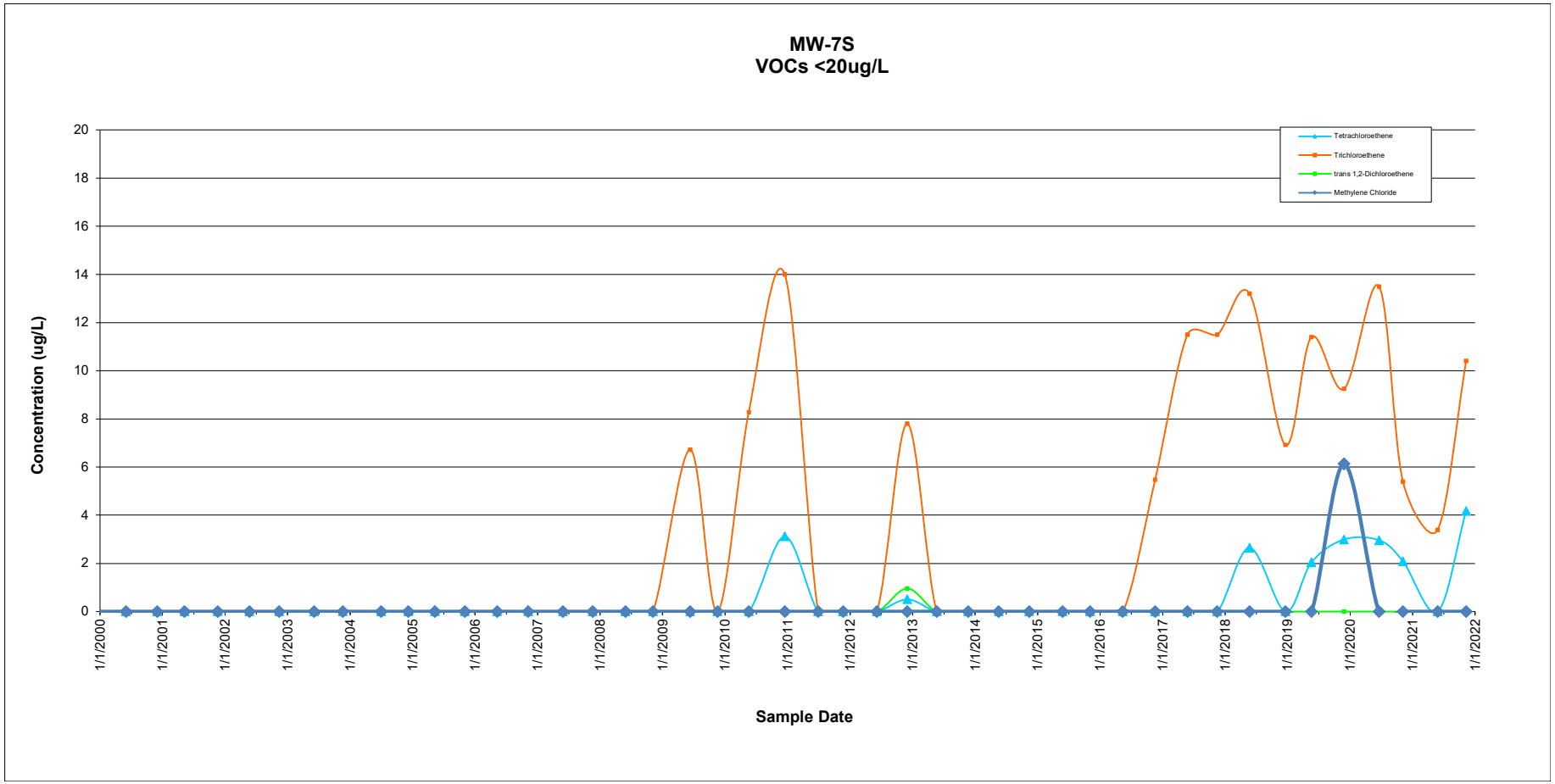

MW-6I
VOCs <25 ug/L
Vinyl Chloride
Concentration (ug/L)
25
20
15
10
5
0
1/1/1998
1/1/1999
1/1/2000
1/1/2001
1/1/2002
1/1/2003
1/1/2004
1/1/2005
1/1/2006
1/1/2007
1/1/2008
1/1/2009
1/1/2010
1/1/2011
1/1/2012
1/1/2013
1/1/2014
1/1/2015
1/1/2016
1/1/2017
1/1/2018
1/1/2019
1/1/2020
1/1/2021
1/1/2022
Sample Date

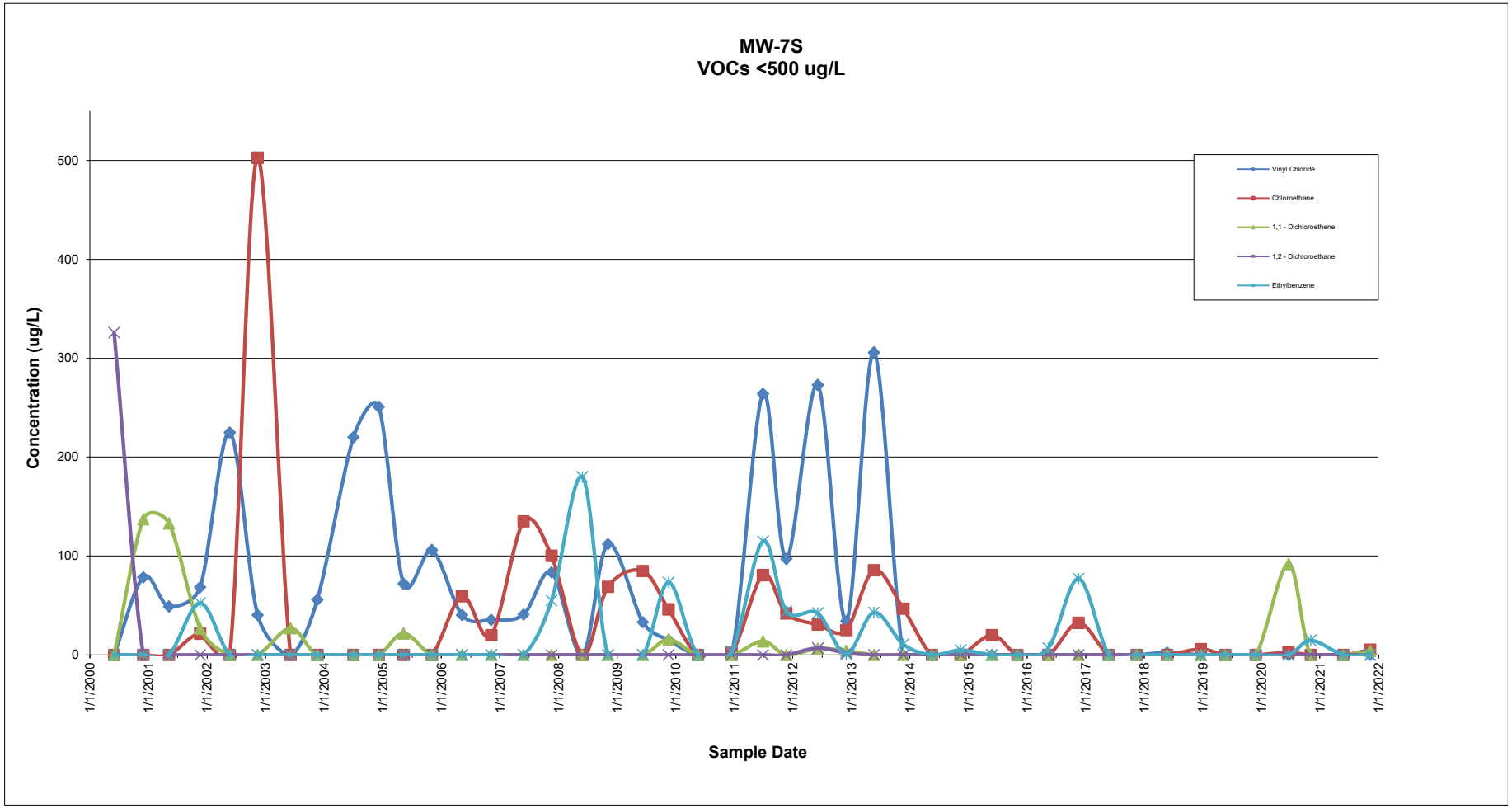
	MW-6I	MW-6I	MW-6I	MW-6I	MW-6I	MW-6I	MW-6I	MW-6I	MW-6I	MW-6I	MW-6I
Total VOC's (601/602) (ug/L)	**11/8/1998**	**5/1/1999**	**11/23/1999**	**6/1/2000**	**11/30/2000**	**5/9/2001**	**11/19/2001**	**5/23/2002**	**11/13/2002**	**6/6/2003**	**11/20/2003**
Vinyl Chloride	3.90	0.00	0.00	4.30	7.40	0.00	0.00	21.20	0.00	0.00	0.00

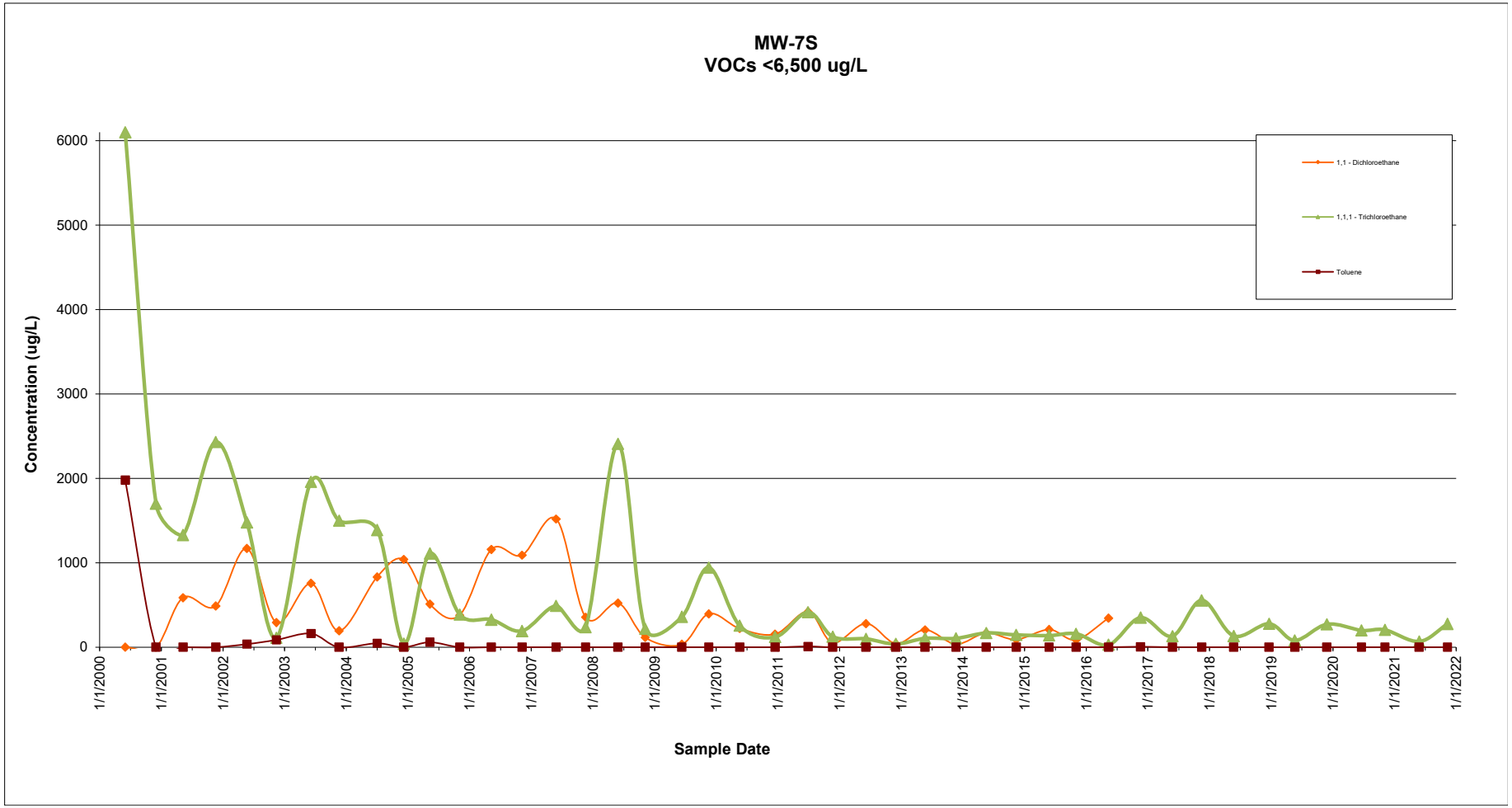
	MW-6I	MW-6I	MW-6I	MW-6I	MW-6I	MW-6I	MW-6I	MW-6I	MW-6I	MW-6I	MW-6I	MW-6I
Total VOC's (601/602) (ug/L)	**7/2/2004**	**12/7/2004**	**5/11/2005**	**11/3/2005**	**5/10/2006**	**11/8/2006**	**5/29/2007**	**11/19/2007**	**5/29/2008**	**11/6/2008**	**6/11/2009**	**11/18/2009**
Vinyl Chloride	0.00	0.00	0.00	5.92	2.26	7.29	9.42	10.30	6.06	4.09	9.83	4.03

	MW-6I	MW-6I	MW-6I	MW-6I	MW-6I	MW-6I	MW-6I	MW-6I	MW-6I	MW-6I	MW-6I	MW-6I
Total VOC's (601/602) (ug/L)	**5/20/2010**	**12/16/2010**	**6/29/2011**	**11/22/2011**	**6/6/2012**	**11/30/2012**	**5/22/2013**	**11/21/2013**	**5/19/2014**	**11/13/2014**	**5/27/2015**	**11/3/2015**
Vinyl Chloride	3.73	5.55	6.59	7.17	3.01	14.00	6.03	9.16	4.5	4.24	4.5	3.2

	MW-6I	MW-6I	MW-6I	MW-6I	MW-6I	MW-6I	MW-6I	MW-6I	MW-6I	MW-6I	MW-6I	MW-6I
Total VOC's (601/602) (ug/L)	**5/13/2016**	**11/18/2016**	**5/26/2017**	**11/16/2017**	**5/24/2018**	**12/20/2018**	**5/21/2019**	**11/27/2019**	**6/19/2020**	**11/5/2020**	**5/27/2021**	**11/10/2021**
Vinyl Chloride	4.47	4.57	8.60	8.04	6.75	4.57	0.00	3.92	6.72	6.43	3.53	3.38


MW-7S
VOCs <20ug/L
Concentration (ug/L)
Sample Date
Tetrachloroethene
Trichloroethene
trans 1,2-Dichloroethene
Methylene Chloride
0
2
4
6
8
10
12
14
16
18
20
1/1/2000
1/1/2001
1/1/2002
1/1/2003
1/1/2004
1/1/2005
1/1/2006
1/1/2007
1/1/2008
1/1/2009
1/1/2010
1/1/2011
1/1/2012
1/1/2013
1/1/2014
1/1/2015
1/1/2016
1/1/2017
1/1/2018
1/1/2019
1/1/2020
1/1/2021
1/1/2022


MW-7S
VOCs <500 ug/L
Concentration (ug/L)
500
400
300
200
100
0
1/1/2000
1/1/2001
1/1/2002
1/1/2003
1/1/2004
1/1/2005
1/1/2006
1/1/2007
1/1/2008
1/1/2009
1/1/2010
1/1/2011
1/1/2012
1/1/2013
1/1/2014
1/1/2015
1/1/2016
1/1/2017
1/1/2018
1/1/2019
1/1/2020
1/1/2021
1/1/2022
Sample Date
Vinyl Chloride
Chloroethane
1,1 - Dichloroethene
1,2 - Dichloroethane
Ethylbenzene


MW-7S
VOCs <6,500 ug/L
Concentration (ug/L)
6000
5000
4000
3000
2000
1000
0
1/1/2000
1/1/2001
1/1/2002
1/1/2003
1/1/2004
1/1/2005
1/1/2006
1/1/2007
1/1/2008
1/1/2009
1/1/2010
1/1/2011
1/1/2012
1/1/2013
1/1/2014
1/1/2015
1/1/2016
1/1/2017
1/1/2018
1/1/2019
1/1/2020
1/1/2021
1/1/2022
Sample Date
1,1 - Dichloroethane
1,1,1 - Trichloroethane
Toluene

	MW-7S	MW-7S	MW-7S	MW-7S	MW-7S	MW-7S	MW-7S	MW-7S	MW-7S	MW-7S	MW-7S	MW-7S	MW-7S	MW-7S	MW-7S	MW-7S
Total Volatiles (601/602) (ug/L)	**11/8/1998**	**5/1/1999**	**11/23/1999**	**6/1/2000**	**11/30/2000**	**5/9/2001**	**11/19/2001**	**5/23/2002**	**11/13/2002**	**6/6/2003**	**11/20/2003**	**7/2/2004**	**12/7/2004**	**5/11/2005**	**11/3/2005**	**5/10/2006**	**11/8/2006**
Tetrachloroethene	NS	NS	NS	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Trichloroethene	NS	NS	NS	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Methylene Chloride	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.0	0.0	0.0
trans 1,2-Dichloroethene	NS	NS	NS	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

	MW-7S	MW-7S	MW-7S	MW-7S	MW-7S	MW-7S	MW-7S	MW-7S	MW-7S	MW-7S	MW-7S	MW-7S	MW-7S	MW-7S	MW-7S	MW-7S	MW-7S
Total Volatiles (601/602) (ug/L)	**11/8/1998**	**5/1/1999**	**11/23/1999**	**6/1/2000**	**11/30/2000**	**5/9/2001**	**11/19/2001**	**5/23/2002**	**11/13/2002**	**6/6/2003**	**11/20/2003**	**7/2/2004**	**12/7/2004**	**5/11/2005**	**11/3/2005**	**5/10/2006**	**11/8/2006**
1,1 - Dichloroethane	NS	NS	NS	0.0	587.0	489.0	1170.0	293.0	757.0	195.0	833.0	1040.0	511.0	288.0	943.0	631.0	467.0
Toluene	NS	NS	NS	1980.0	0.0	0.0	0.0	36.3	86.6	162.0	0.0	45.7	0.0	60.1	0.0	0.0	0.0
1,1,1 - Trichloroethane	NS	NS	NS	6100.0	1700.0	1330.0	2430.0	1480.0	112.0	1960.0	1500.0	1390.0	42.9	1110.0	388.0	328.0	193.0

	MW-7S	MW-7S	MW-7S	MW-7S	MW-7S	MW-7S	MW-7S	MW-7S	MW-7S	MW-7S	MW-7S	MW-7S	MW-7S	MW-7S	MW-7S	MW-7S	MW-7S
Total Volatiles (601/602) (ug/L)	**11/8/1998**	**5/1/1999**	**11/23/1999**	**6/1/2000**	**11/30/2000**	**5/9/2001**	**11/19/2001**	**5/23/2002**	**11/13/2002**	**6/6/2003**	**11/20/2003**	**7/2/2004**	**12/7/2004**	**5/11/2005**	**11/3/2005**	**5/10/2006**	**11/8/2006**
Vinyl Chloride	NS	NS	NS	0.0	78.4	48.8	68.4	225.0	40.3	0.0	55.7	220.0	251.0	72.0	106.0	40.3	35.3
Chloroethane	NS	NS	NS	0.0	0.0	0.0	21.4	0.0	503.0	0.0	0.0	0.0	0.0	0.0	0.0	59.2	19.9
1,1 - Dichloroethene	NS	NS	NS	0.0	137.0	133.0	26.8	0.0	0.0	26.9	0.0	0.0	0.0	21.7	0.0	0.0	0.0
1,2 - Dichloroethane	NS	NS	NS	326.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Ethylbenzene	NS	NS	NS	0.0	0.0	0.0	52.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

	MW-7S	MW-7S	MW-7S	MW-7S	MW-7S	MW-7S	MW-7S	MW-7S	MW-7S	MW-7S	MW-7S	MW-7S	MW-7S	MW-7S	MW-7S	MW-7S	MW-7S
Total Volatiles (601/602) (ug/L)	**5/29/2007**	**11/19/2007**	**5/29/2008**	**11/6/2008**	**6/11/2009**	**11/18/2009**	**5/20/2010**	**12/16/2010**	**6/29/2011**	**11/22/2011**	**6/6/2012**	**11/30/2012**	**5/22/2013**	**11/21/2013**	**5/19/2014**	**11/13/2014**	**5/27/2015**	**11/3/2015**
Tetrachloroethene	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.1	0.0	0.0	0.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0
Trichloroethene	0.0	0.0	0.0	0.0	6.7	0.0	8.3	14.0	0.0	0.0	0.0	7.8	0.0	0.0	0.0	0.0	0.0	0.0
Methylene Chloride	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
trans 1,2-Dichloroethene	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0

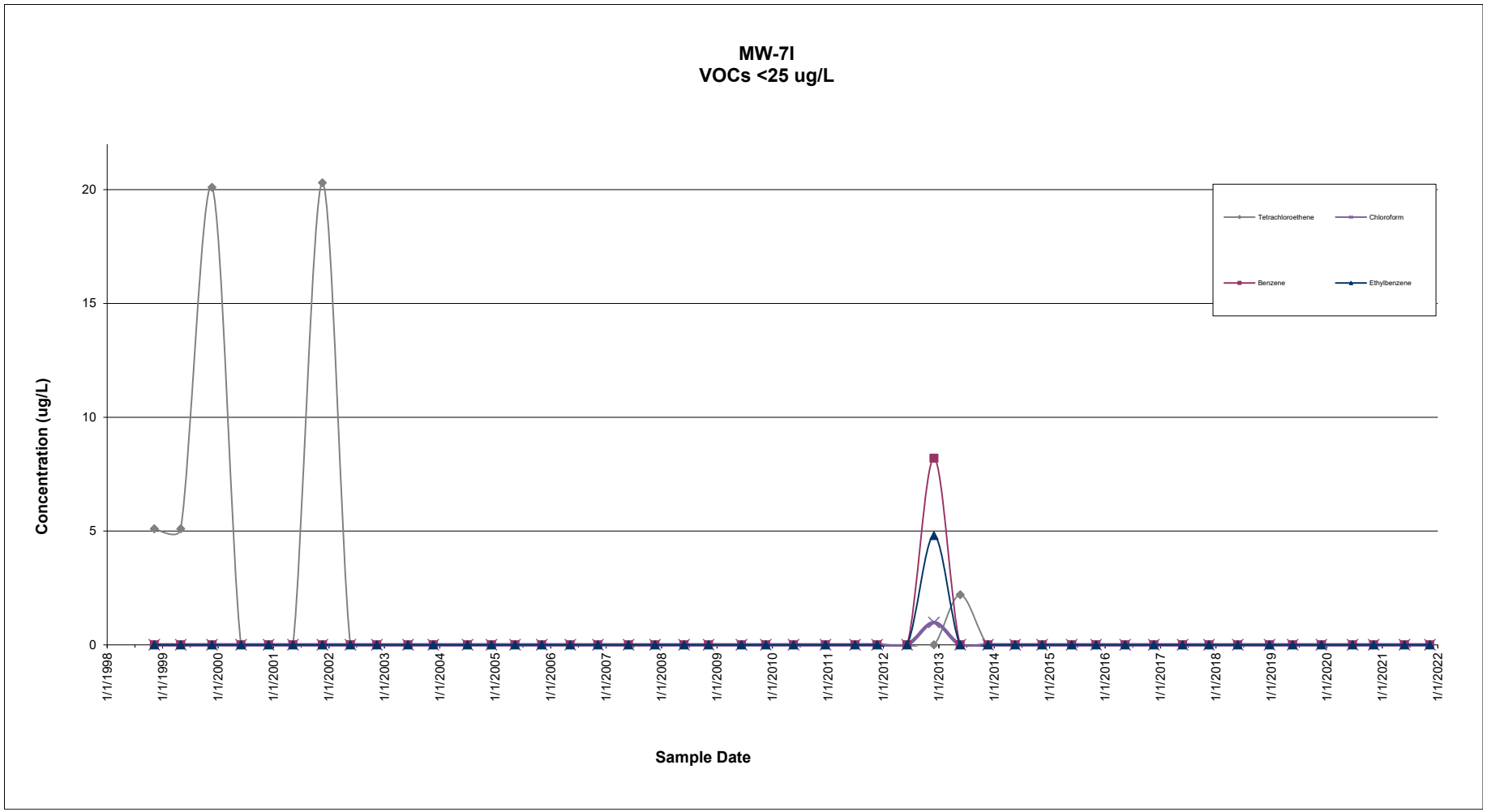
	MW-7S	MW-7S	MW-7S	MW-7S	MW-7S	MW-7S	MW-7S	MW-7S	MW-7S	MW-7S	MW-7S	MW-7S	MW-7S	MW-7S	MW-7S	MW-7S	MW-7S
Total Volatiles (601/602) (ug/L)	**5/29/2007**	**11/19/2007**	**5/29/2008**	**11/6/2008**	**6/11/2009**	**11/18/2009**	**5/20/2010**	**12/16/2010**	**6/29/2011**	**11/22/2011**	**6/6/2012**	**11/30/2012**	**5/22/2013**	**11/21/2013**	**5/19/2014**	**11/13/2014**	**5/27/2015**	**11/3/2015**
1,1 - Dichloroethane	380.0	1160.0	1090.0	1520.0	356.0	524.0	117.0	34.8	396.0	222.0	393.0	140.0	507.0	353	86.6	229	129	238
Toluene	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.6	0.0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0
1,1,1 - Trichloroethane	491.0	238.0	2410.0	220.0	360.0	945.0	256.0	121.0	416.0	124.0	98.8	39.0	106.0	106	170	146	139	161

	MW-7S	MW-7S	MW-7S	MW-7S	MW-7S	MW-7S	MW-7S	MW-7S	MW-7S	MW-7S	MW-7S	MW-7S	MW-7S	MW-7S	MW-7S	MW-7S	MW-7S
Total Volatiles (601/602) (ug/L)	**5/29/2007**	**11/19/2007**	**5/29/2008**	**11/6/2008**	**6/11/2009**	**11/18/2009**	**5/20/2010**	**12/16/2010**	**6/29/2011**	**11/22/2011**	**6/6/2012**	**11/30/2012**	**5/22/2013**	**11/21/2013**	**5/19/2014**	**11/13/2014**	**5/27/2015**	**11/3/2015**
Vinyl Chloride	40.8	83.4	0.0	112.0	33.0	14.8	0.0	0.0	264.0	97.0	273.0	34.0	306.0	0.0	0.0	0.0	0.0	0.0
Chloroethane	135.0	100.0	0.0	68.8	84.8	45.8	0.0	2.0	80.7	41.9	30.6	25.0	85.6	46.7	0.0	0.0	19.9	0.0
1,1 - Dichloroethene	0.0	0.0	0.0	0.0	0.0	15.8	0.0	0.0	13.7	0.0	6.2	4.3	0.0	0.0	0.0	0.0	0.0	0.0
1,2 - Dichloroethane	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.8	1.9	0.0	0.0	0.0	0.0	0.0	0.0
Ethylbenzene	0.0	54.8	180.0	0.0	0.0	73.3	0.0	3.4	115.0	44.1	42.1	0.5	42.8	10.6	0.0	4.7	0.0	0.0

	MW-7S	MW-7S	MW-7S	MW-7S	MW-7S	MW-7S	MW-7S	MW-7S	MW-7S	MW-7S	MW-7S	MW-7S
Total Volatiles (601/602) (ug/L)	**5/13/2016**	**11/18/2016**	**5/26/2017**	**11/16/2017**	**5/24/2018**	**12/20/2018**	**5/21/2019**	**11/27/2019**	**6/19/2020**	**11/5/2020**	**5/27/2021**	**11/10/2021**
Tetrachloroethene	0.0	0.0	0.0	0.0	2.65	0.0	2.04	2.99	2.96	2.09	0.00	4.18
Trichloroethene	0.0	5.47	11.5	11.5	13.2	6.92	11.4	9.25	13.5	5.40	3.39	10.40
Methylene Chloride	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.13	0.0	0.00	0.0	0.00
trans 1,2-Dichloroethene	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.0	0.00

	MW-7S	MW-7S	MW-7S	MW-7S	MW-7S	MW-7S	MW-7S	MW-7S	MW-7S	MW-7S	MW-7S	MW-7S
Total Volatiles (601/602) (ug/L)	**5/13/2016**	**11/18/2016**	**5/26/2017**	**11/16/2017**	**5/24/2018**	**12/20/2018**	**5/21/2019**	**11/27/2019**	**6/19/2020**	**11/5/2020**	**5/27/2021**	**11/10/2021**
1,1 - Dichloroethane	156	421	54.6	280	42.7	206	37.8	168	91.9	210	88.6	345
Toluene	0/0	5.26	0/0	0/0	0/0	0/0	0.00	0.0	0.00	0.0	0.0	0.0
1,1,1 - Trichloroethane	29.6	351	132	555	133	279	80.5	273	200	205	67.6	276

	MW-7S	MW-7S	MW-7S	MW-7S	MW-7S	MW-7S	MW-7S	MW-7S	MW-7S	MW-7S	MW-7S	MW-7S
Total Volatiles (601/602) (ug/L)	**5/13/2016**	**11/18/2016**	**5/26/2017**	**11/16/2017**	**5/24/2018**	**12/20/2018**	**5/21/2019**	**11/27/2019**	**6/19/2020**	**11/5/2020**	**5/27/2021**	**11/10/2021**
Vinyl Chloride	0.0	0.0	0.0	0.0	2.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Chloroethane	0.0	32.4	0.0	0.0	0.0	5.82	0.0	0.00	2.25	0.0	0.0	5.1
1,1 - Dichloroethene	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	91.9	0.0	0.0	3.96
1,2 - Dichloroethane	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Ethylbenzene	6.9	77.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	14.7	0.0	0.0


MW-7I
VOCs <25 ug/L
Concentration (ug/L)
20
15
10
5
0
1/1/1998
1/1/1999
1/1/2000
1/1/2001
1/1/2002
1/1/2003
1/1/2004
1/1/2005
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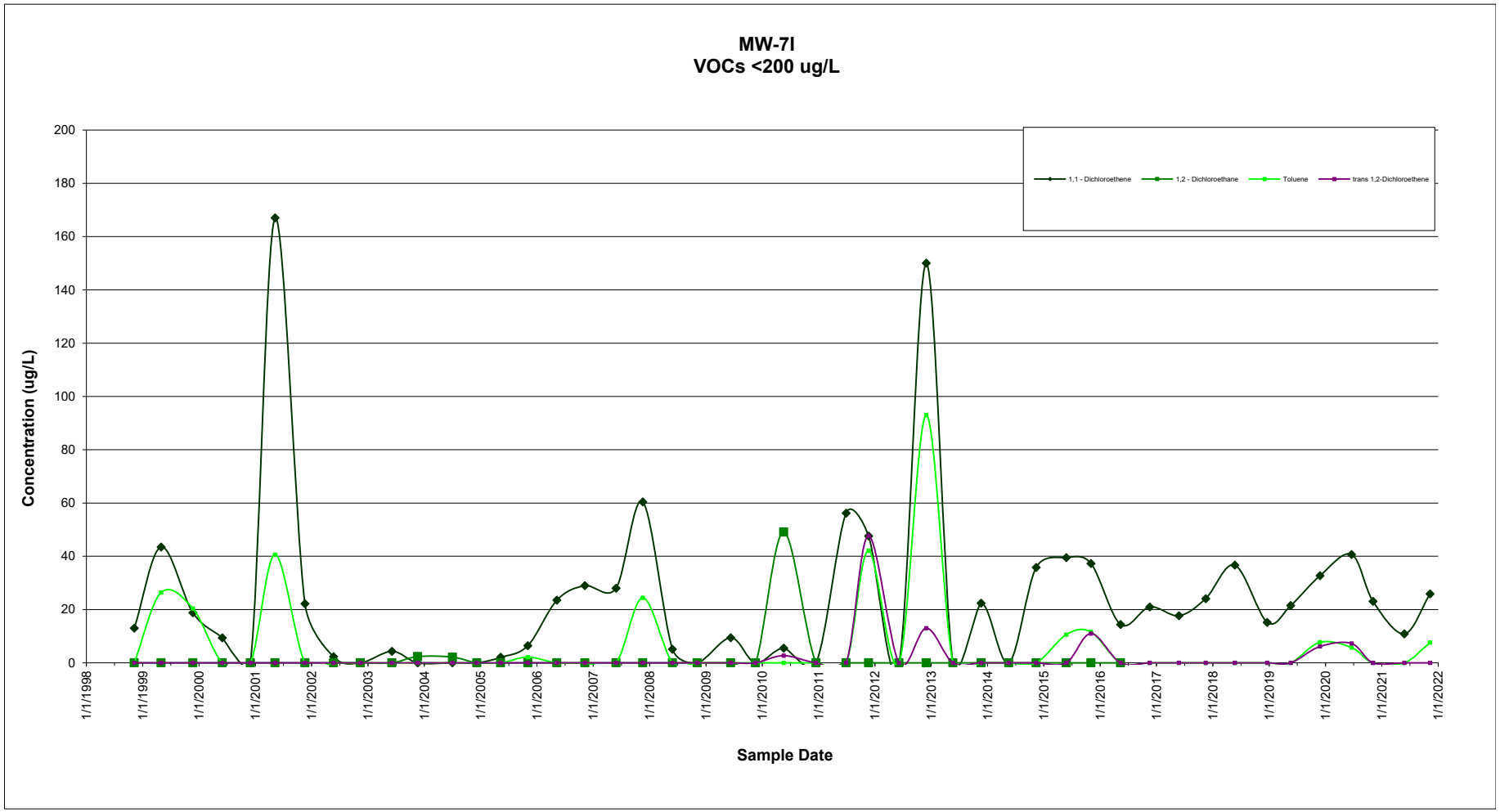
1/1/2014
1/1/2015
1/1/2016
1/1/2017
1/1/2018
1/1/2019
1/1/2020
1/1/2021
1/1/2022
Sample Date
Tetrachloroethene
Chloroform
Benzene
Ethylbenzene


MW-7I
VOCs <200 ug/L
Concentration (ug/L)
Sample Date
1,1 - Dichloroethene
1,2 - Dichloroethane
Toluene
trans 1,2-Dichloroethene
200
180
160
140
120
100
80
60
40
20
0
1/1/1998
1/1/1999
1/1/2000
1/1/2001
1/1/2002
1/1/2003
1/1/2004
1/1/2005
1/1/2006
1/1/2007
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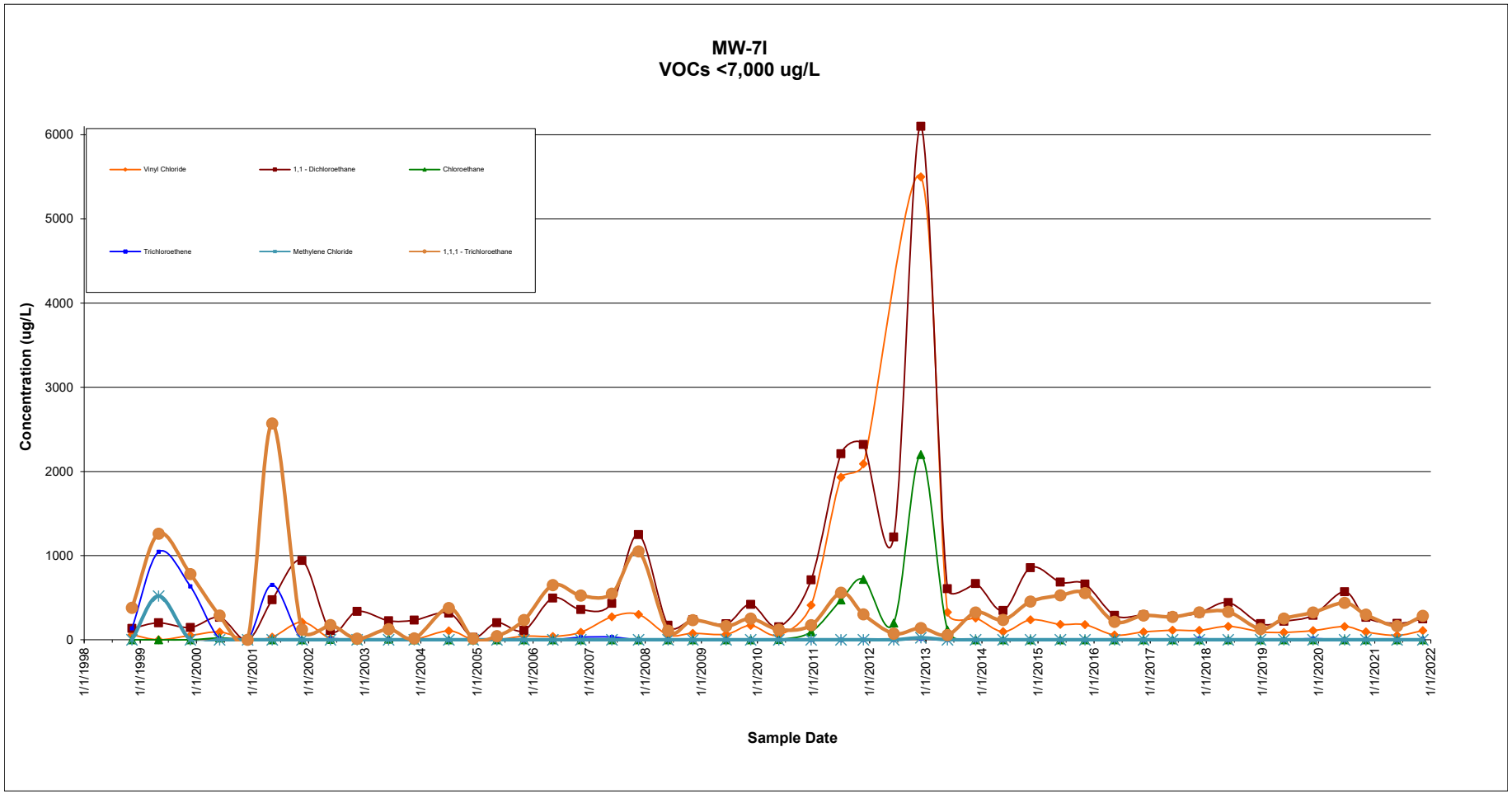
1/1/2020
1/1/2021
1/1/2022


MW-7I
VOCs <7,000 ug/L
Vinyl Chloride
1,1 - Dichloroethane
Chloroethane
Trichloroethene
Methylene Chloride
1,1,1 - Trichloroethane
Concentration (ug/L)
6000
5000
4000
3000
2000
1000
0
1/1/1998
1/1/1999
1/1/2000
1/1/2001
1/1/2002
1/1/2003
1/1/2004
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1/1/2014
1/1/2015
1/1/2016
1/1/2017
1/1/2018
1/1/2019
1/1/2020
1/1/2021
1/1/2022
Sample Date

	MW-7I	MW-7I	MW-7I	MW-7I	MW-7I	MW-7I	MW-7I	MW-7I	MW-7I	MW-7I	MW-7I	MW-7I	MW-7I	MW-7I	MW-7I	MW-7I
Total Volatiles (601/602) (ug/L)	**11/8/1998**	**5/1/1999**	**11/23/1999**	**6/1/2000**	**11/30/2000**	**5/9/2001**	**11/19/2001**	**5/23/2002**	**11/13/2002**	**6/6/2003**	**11/20/2003**	**7/2/2004**	**12/7/2004**	**5/11/2005**	**11/3/2005**	**5/10/2006**	**11/8/2006**
Tetrachloroethene	5.1	20.1	0.0	0.0	0.0	20.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Chloroform	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Benzene	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Ethylbenzene	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

	MW-7I	MW-7I	MW-7I	MW-7I	MW-7I	MW-7I	MW-7I	MW-7I	MW-7I	MW-7I	MW-7I	MW-7I	MW-7I	MW-7I	MW-7I	MW-7I
Total Volatiles (601/602) (ug/L)	**11/8/1998**	**5/1/1999**	**11/23/1999**	**6/1/2000**	**11/30/2000**	**5/9/2001**	**11/19/2001**	**5/23/2002**	**11/13/2002**	**6/6/2003**	**11/20/2003**	**7/2/2004**	**12/7/2004**	**5/11/2005**	**11/3/2005**	**5/10/2006**	**11/8/2006**
Vinyl Chloride	60.5	0.0	51.5	92.4	0.0	31.7	210	16.7	4.1	0.0	2.7	106	0.0	0.0	43.5	39.5	89.2
1,1 - Dichloroethane	135	201	146	266	0	475	943	110	337	227	233	317	28	203	111	496	359
Chloroethane	0.0	0.0	0.0	21.5	0.0	0.0	0.0	5.1	0.0	7.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Trichloroethene	136	1044.5	635	9.4	0.0	652.0	0.0	13.0	0.0	3.8	0.0	0.0	0.0	0.0	0.0	0.0	29.8
Methylene Chloride	0.0	520.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1,1,1 - Trichloroethane	380	1260.5	781	288	0.0	2570	121	176	13.1	126	17	378	14.6	42.8	234	650	525

	MW-7I	MW-7I	MW-7I	MW-7I	MW-7I	MW-7I	MW-7I	MW-7I	MW-7I	MW-7I	MW-7I	MW-7I	MW-7I	MW-7I	MW-7I	MW-7I
Total Volatiles (601/602) (ug/L)	**11/8/1998**	**5/1/1999**	**11/23/1999**	**6/1/2000**	**11/30/2000**	**5/9/2001**	**11/19/2001**	**5/23/2002**	**11/13/2002**	**6/6/2003**	**11/20/2003**	**7/2/2004**	**12/7/2004**	**5/11/2005**	**11/3/2005**	**5/10/2006**	**11/8/2006**
1,1 - Dichloroethene	13.0	43.5	18.8	9.41	0.0	167.0	22.2	2.33	0	4.34	0.0	0.0	0.0	2.09	6.45	23.5	29.0
1,2 - Dichloroethane	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	2.37	2.15	0.0	0.0	3.86	0.0	0.0	0.0
Toluene	0.0	26.4	20.4	0.0	0.0	40.6	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	2.15	0.0	0.0
trans 1,2-Dichloroethene	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

	MW-7I	MW-7I	MW-7I	MW-7I	MW-7I	MW-7I	MW-7I	MW-7I	MW-7I	MW-7I	MW-7I	MW-7I	MW-7I	MW-7I	MW-7I	MW-7I	MW-7I
Total Volatiles (601/602) (ug/L)	**5/29/2007**	**11/19/2007**	**5/29/2008**	**11/6/2008**	**6/11/2009**	**11/18/2009**	**5/20/2010**	**12/16/2010**	**6/29/2011**	**11/22/2011**	**6/6/2012**	**11/30/2012**	**5/22/2013**	**11/21/2013**	**5/19/2014**	**11/13/2014**	**5/27/2015**	**11/3/2015**
Tetrachloroethene	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.2	0.0	0.0	0.0	0.0	0.0	0.0
Chloroform	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.98	0.0	0.0	0.0	0.0	0.0	0.0
Benzene	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.2	0.0	0.0	0.0	0.0	0.0	0.0
Ethylbenzene	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.8	0.0	0.0	0.0	0.0	0.0	0.0

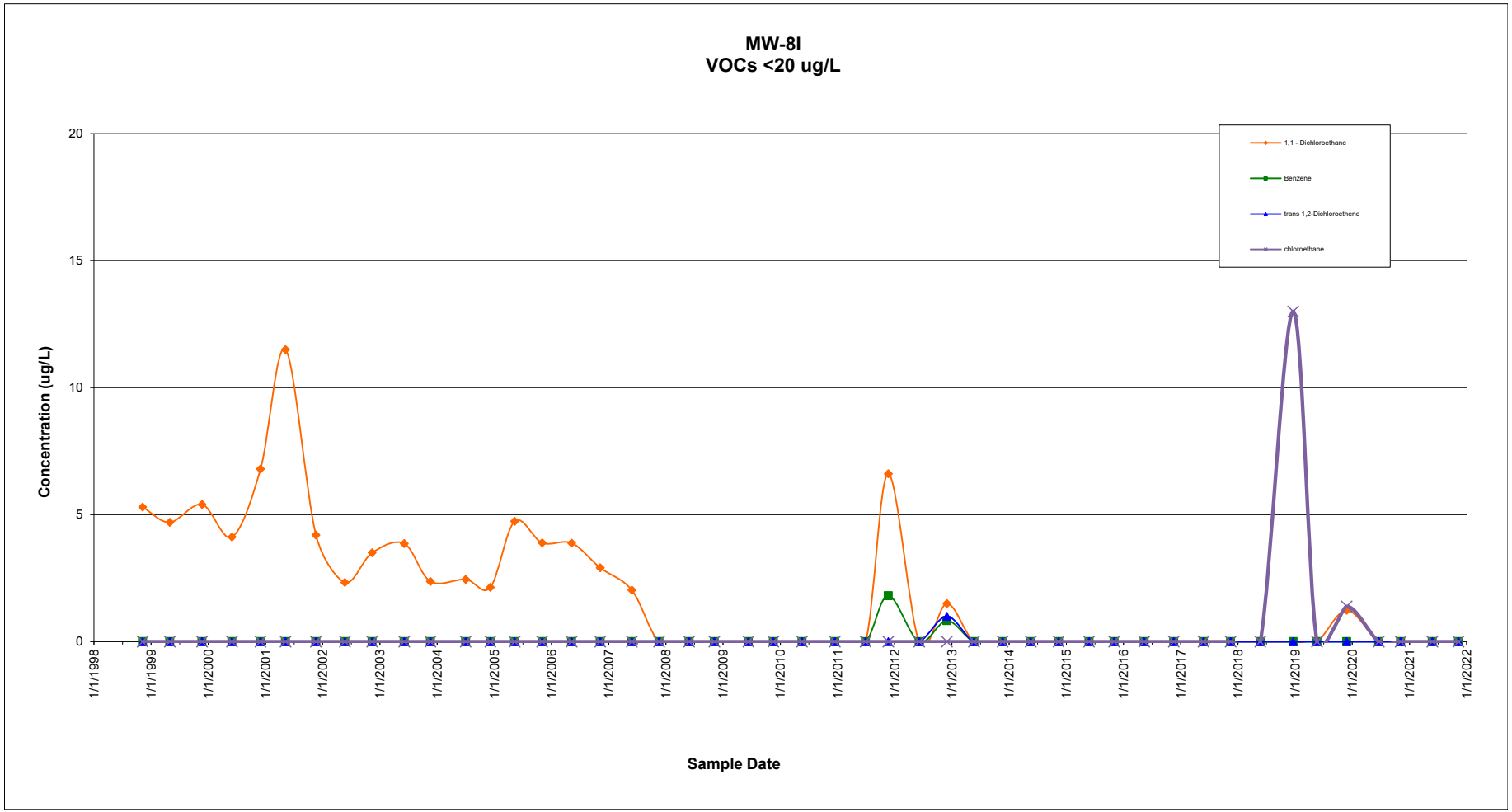
	MW-7I	MW-7I	MW-7I	MW-7I	MW-7I	MW-7I	MW-7I	MW-7I	MW-7I	MW-7I	MW-7I	MW-7I	MW-7I	MW-7I	MW-7I	MW-7I	MW-7I	MW-7I
Total Volatiles (601/602) (ug/L)	**5/29/2007**	**11/19/2007**	**5/29/2008**	**11/6/2008**	**6/11/2009**	**11/18/2009**	**5/20/2010**	**12/16/2010**	**6/29/2011**	**11/22/2011**	**6/6/2012**	**11/30/2012**	**5/22/2013**	**11/21/2013**	**5/19/2014**	**11/13/2014**	**5/27/2015**	**11/3/2015**
Vinyl Chloride	273	301	58.6	76.9	66.2	170	56.7	412	1930	2090		5500	328	259	96.8	238	182	180
1,1 - Dichloroethane	433	1250	172	239	189	421	153	712	2210	2320	1220	6100	607	668	348	856	684	662
Chloroethane	0.0	0.0	0.0	0.0	0.0	0.0	3.23	93.5	473	717	199	2200	117	0.0	0.0	0.0	0.0	0.0
Trichloroethene	32.7	0.0	2.25	0.0	2.70	0.0	3.51	0.0	0.0	0.0	0.0	12.0	0.0	0.0	0.0	0.0	0.0	0.0
Methylene Chloride	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	24.0	0.0	0.0	0.0	0.0	0.0	0.0
1,1,1 - Trichloroethane	548	1050	108	233	162	251	122	173	559	302	73.5	140	56.5	325	236	454	528	555

	MW-7I	MW-7I	MW-7I	MW-7I	MW-7I	MW-7I	MW-7I	MW-7I	MW-7I	MW-7I	MW-7I	MW-7I	MW-7I	MW-7I	MW-7I	MW-7I	MW-7I	MW-7I
Total Volatiles (601/602) (ug/L)	**5/29/2007**	**11/19/2007**	**5/29/2008**	**11/6/2008**	**6/11/2009**	**11/18/2009**	**5/20/2010**	**12/16/2010**	**6/29/2011**	**11/22/2011**	**6/6/2012**	**11/30/2012**	**5/22/2013**	**11/21/2013**	**5/19/2014**	**11/13/2014**	**5/27/2015**	**11/3/2015**
1,1 - Dichloroethene	28.0	60.4	5.12	0.0	9.46	0.0	5.50	0.0	56.2	47.6	0.0	150	0.0	22.4	0.0	35.8	39.5	37.3
1,2 - Dichloroethane	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	49.1	0.0	13.0	0.0	0.0	0.0	0.0	0.0	0.0
Toluene	0.0	24.4	0.0	0.0	0.0	0.0	0.00	0.0	0.0	42.1	0.0	93.0	0.0	0.0	0.0	0.0	10.6	11.6
trans 1,2-Dichloroethene	0.0	0.0	0.0	0.0	0.0	0.0	2.73	0.0	0.0	47.7	0.0	13.0	0.0	0.0	0.0	0.0	0.0	11.0

	MW-7I	MW-7I	MW-7I	MW-7I	MW-7I	MW-7I	MW-7I	MW-7I	MW-7I	MW-7I	MW-7I	MW-7I
Total Volatiles (601/602) (ug/L)	**5/13/2016**	**11/18/2016**	**5/26/2017**	**11/16/2017**	**5/24/2018**	**12/20/2018**	**5/21/2019**	**11/27/2019**	**6/19/2020**	**11/5/2020**	**5/27/2021**	**11/10/2021**
Tetrachloroethene	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Chloroform	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Benzene	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Ethylbenzene	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

	MW-7I	MW-7I	MW-7I	MW-7I	MW-7I	MW-7I	MW-7I	MW-7I	MW-7I	MW-7I	MW-7I	MW-7I
Total Volatiles (601/602) (ug/L)	**5/13/2016**	**11/18/2016**	**5/26/2017**	**11/16/2017**	**5/24/2018**	**12/20/2018**	**5/21/2019**	**11/27/2019**	**6/19/2020**	**11/5/2020**	**5/27/2021**	**11/10/2021**
Vinyl Chloride	57.7	93.7	114	112	160	96.2	88.1	109.0	158	92.8	52.4	109.0
1,1 - Dichloroethane	291	293	278	319	442	191	220	291	571	267	195	248
Chloroethane	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Trichloroethene	0.0	0.0	0.0	13.7	0.0	0.0	0.0	12.6	0.0	6.53	0.0	7.04
Methylene Chloride	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1,1,1 - Trichloroethane	214	289	272	326	333	129	252	325	439	299	163	284

	MW-7I	MW-7I	MW-7I	MW-7I	MW-7I	MW-7I	MW-7I	MW-7I	MW-7I	MW-7I	MW-7I	MW-7I
Total Volatiles (601/602) (ug/L)	**5/13/2016**	**11/18/2016**	**5/26/2017**	**11/16/2017**	**5/24/2018**	**12/20/2018**	**5/21/2019**	**11/27/2019**	**6/19/2020**	**11/5/2020**	**5/27/2021**	**11/10/2021**
1,1 - Dichloroethene	14.4	21	17.7	24.1	36.7	15.2	21.5	32.7	40.7	23.1	10.9	25.9
1,2 - Dichloroethane	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Toluene	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.7	5.8	0.0	0.0	7.6
trans 1,2-Dichloroethene	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.2	7.3	0.0	0.0	0.0


MW-8I
VOCs <20 ug/L
Concentration (ug/L)
20
15
10
5
0
1,1 - Dichloroethane
Benzene
trans 1,2-Dichloroethene
chloroethane
1/1/1998
1/1/1999
1/1/2000
1/1/2001
1/1/2002
1/1/2003
1/1/2004
1/1/2005
1/1/2006
1/1/2007
1/1/2008
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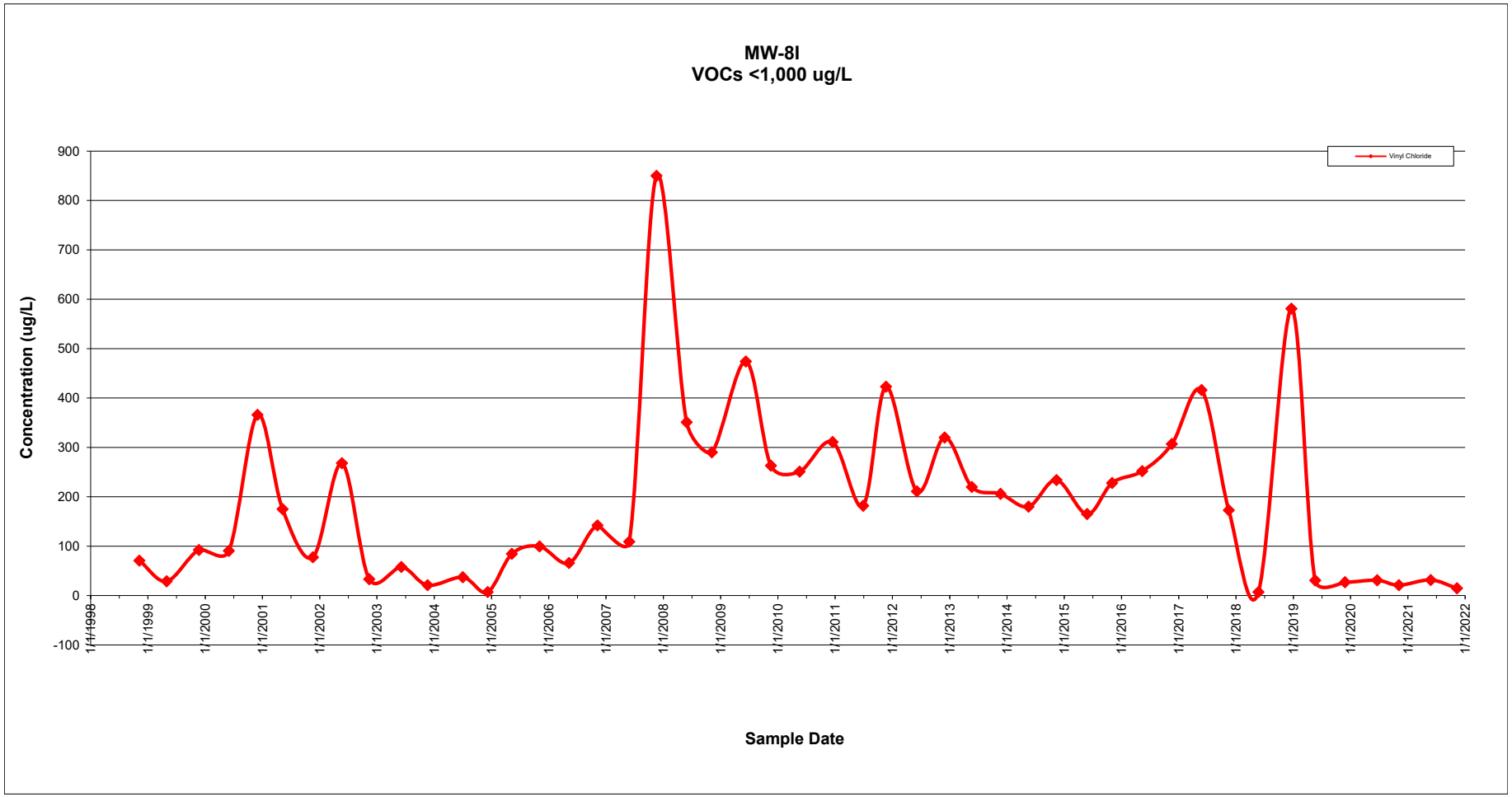
1/1/2013
1/1/2014
1/1/2015
1/1/2016
1/1/2017
1/1/2018
1/1/2019
1/1/2020
1/1/2021
1/1/2022
Sample Date


MW-8I
VOCs <1,000 ug/L
Vinyl Chloride
Concentration (ug/L)
900
800
700
600
500
400
300
200
100
0
-100
1/1/1998
1/1/1999
1/1/2000
1/1/2001
1/1/2002
1/1/2003
1/1/2004
1/1/2005
1/1/2006
1/1/2007
1/1/2008
1/1/2009
1/1/2010
1/1/2011
1/1/2012
1/1/2013
1/1/2014
1/1/2015
1/1/2016
1/1/2017
1/1/2018
1/1/2019
1/1/2020
1/1/2021
1/1/2022
Sample Date

	MW-8I	MW-8I	MW-8I	MW-8I	MW-8I	MW-8I	MW-8I	MW-8I	MW-8I	MW-8I	MW-8I	MW-8I	MW-8I	MW-8I	MW-8I	MW-8I	MW-8I
Total Volatiles (601/602) (ug/L)	**11/8/1998**	**5/1/1999**	**11/23/1999**	**6/1/2000**	**11/30/2000**	**5/9/2001**	**11/19/2001**	**5/23/2002**	**11/13/2002**	**6/6/2003**	**11/20/2003**	**7/2/2004**	**12/7/2004**	**5/11/2005**	**11/3/2005**	**5/10/2006**	**11/8/2006**
1,1 - Dichloroethane	5.30	4.70	5.40	4.12	6.80	11.50	4.20	2.33	3.50	3.86	2.37	2.45	2.14	4.74	3.89	3.88	2.91
Benzene	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.0	0.0	0.0
Chloroethane	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.0	0.0	0.0
trans 1,2-Dichloroethene	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.0	0.0	0.0

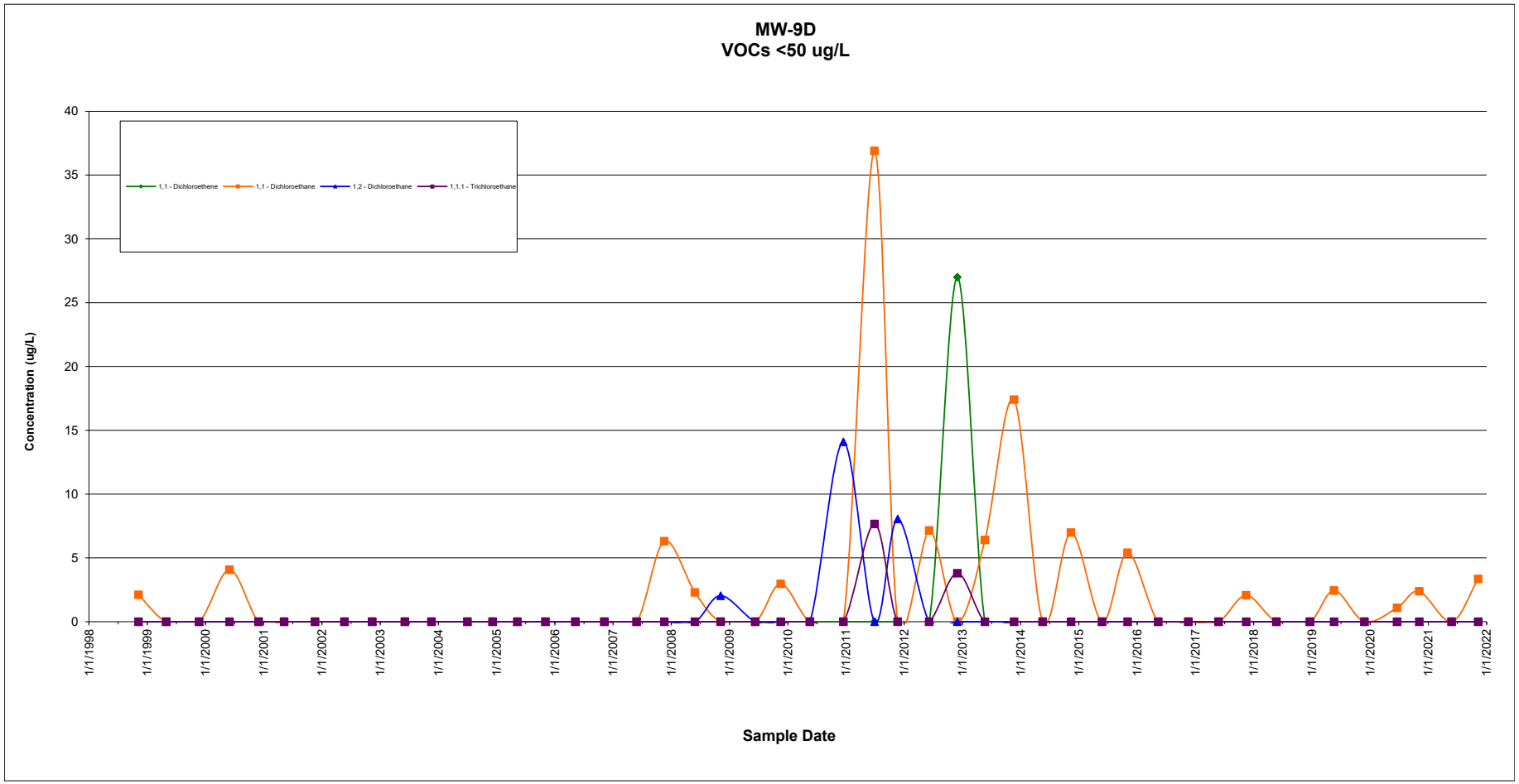
	MW-8I	MW-8I	MW-8I	MW-8I	MW-8I	MW-8I	MW-8I	MW-8I	MW-8I	MW-8I	MW-8I	MW-8I	MW-8I	MW-8I	MW-8I	MW-8I	MW-8I
Total Volatiles (601/602) (ug/L)	**11/8/1998**	**5/1/1999**	**11/23/1999**	**6/1/2000**	**11/30/2000**	**5/9/2001**	**11/19/2001**	**5/23/2002**	**11/13/2002**	**6/6/2003**	**11/20/2003**	**7/2/2004**	**12/7/2004**	**5/11/2005**	**11/3/2005**	**5/10/2006**	**11/8/2006**
Vinyl Chloride	70.80	29.00	92.50	90.40	366.00	175.00	77.70	268.00	33.20	57.90	21.00	37.10	7.02	84.5	99.5	65.9	142

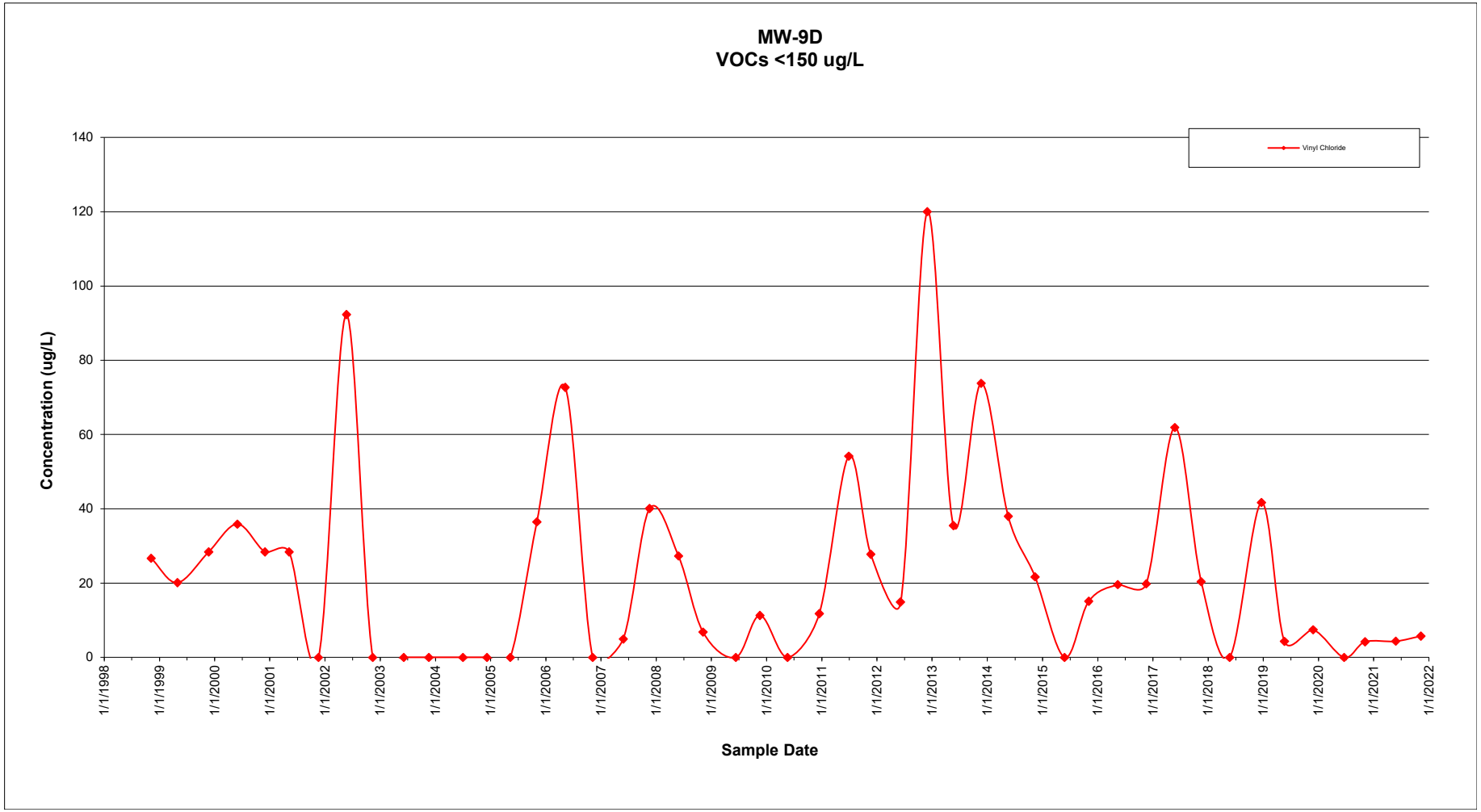
	MW-8I	MW-8I	MW-8I	MW-8I	MW-8I	MW-8I	MW-8I	MW-8I	MW-8I	MW-8I	MW-8I	MW-8I	MW-8I	MW-8I	MW-8I	MW-8I	MW-8I
Total Volatiles (601/602) (ug/L)	**5/29/2007**	**11/19/2007**	**5/29/2008**	**11/6/2008**	**6/11/2009**	**11/18/2009**	**5/20/2010**	**12/16/2010**	**6/29/2011**	**11/22/2011**	**6/6/2012**	**11/30/2012**	**5/22/2013**	**11/21/2013**	**5/19/2014**	**11/13/2014**	**5/27/2015**	**11/3/2015**
1,1 - Dichloroethane	2.03	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.6	0.0	1.5	0.0	0.0	0.0	0.0	0.0	0.0
Benzene	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.8	0.0	0.8	0.0	0.0	0.0	0.0	0.0	0.0
Chloroethane	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
trans 1,2-Dichloroethene	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0

	MW-8I	MW-8I	MW-8I	MW-8I	MW-8I	MW-8I	MW-8I	MW-8I	MW-8I	MW-8I	MW-8I	MW-8I	MW-8I	MW-8I	MW-8I	MW-8I	MW-8I
Total Volatiles (601/602) (ug/L)	**5/29/2007**	**11/19/2007**	**5/29/2008**	**11/6/2008**	**6/11/2009**	**11/18/2009**	**5/20/2010**	**12/16/2010**	**6/29/2011**	**11/22/2011**	**6/6/2012**	**11/30/2012**	**5/22/2013**	**11/21/2013**	**5/19/2014**	**11/13/2014**	**5/27/2015**	**11/3/2015**
Vinyl Chloride	109	850	351	290	474	263	251	311	182	423	211	320	220	206	180	234	165	228

	MW-8I	MW-8I	MW-8I	MW-8I	MW-8I	MW-8I	MW-8I	MW-8I	MW-8I	MW-8I	MW-8I	MW-8I
Total Volatiles (601/602) (ug/L)	**5/13/2016**	**11/18/2016**	**5/26/2017**	**11/16/2017**	**5/24/2018**	**12/20/2018**	**5/21/2019**	**11/27/2019**	**6/19/2020**	**11/5/2020**	**5/27/2021**	**11/10/2021**
1,1 - Dichloroethane	0.0	0.0	0.0	0.0	0.0	0.0	0.00	1.24	0.00	0.00	0.00	0.00
Benzene	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.0	0.00	0.00	0.00	0.00
Chloroethane	0.0	0.0	0.0	0.0	0.0	13.0	0.00	1.39	0.00	0.00	0.00	0.00
trans 1,2-Dichloroethene	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.0	0.00	0.00	0.00	0.00

	MW-8I	MW-8I	MW-8I	MW-8I	MW-8I	MW-8I	MW-8I	MW-8I	MW-8I	MW-8I	MW-8I	MW-8I
Total Volatiles (601/602) (ug/L)	**5/13/2016**	**11/18/2016**	**5/26/2017**	**11/16/2017**	**5/24/2018**	**12/20/2018**	**5/21/2019**	**11/27/2019**	**6/19/2020**	**11/5/2020**	**5/27/2021**	**11/10/2021**
Vinyl Chloride	252	307	416	173	7.18	581	30.6	27.0	31.0	21.0	31.5	14.8


MW-9D
VOCs <50 ug/L
1,1 - Dichloroethene
1,1 - Dichloroethane
1,2 - Dichloroethane
1,1,1 - Trichloroethane
Concentration (ug/L)
40
35
30
25
20
15
10
5
0
1/1/1998
1/1/1999
1/1/2000
1/1/2001
1/1/2002
1/1/2003
1/1/2004
1/1/2005
1/1/2006
1/1/2007
1/1/2008
1/1/2009
1/1/2010
1/1/2011
1/1/2012
1/1/2013
1/1/2014
1/1/2015
1/1/2016
1/1/2017
1/1/2018
1/1/2019
1/1/2020
1/1/2021
1/1/2022
Sample Date


MW-9D
VOCs <150 ug/L
Vinyl Chloride
Concentration (ug/L)
0
20
40
60
80
100
120
140
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1/1/1999
1/1/2000
1/1/2001
1/1/2002
1/1/2003
1/1/2004
1/1/2005
1/1/2006
1/1/2007
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1/1/2009
1/1/2010
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1/1/2014
1/1/2015
1/1/2016
1/1/2017
1/1/2018
1/1/2019
1/1/2020
1/1/2021
1/1/2022
Sample Date

	MW-9D	MW-9D	MW-9D	MW-9D	MW-9D	MW-9D	MW-9D	MW-9D	MW-9D	MW-9D	MW-9D	MW-9D	MW-9D	MW-9D	MW-9D	MW-9D
Total Volatiles (601/602) (ug/L)	**11/8/1998**	**5/1/1999**	**11/23/1999**	**6/1/2000**	**11/30/2000**	**5/9/2001**	**11/19/2001**	**5/23/2002**	**11/13/2002**	**6/6/2003**	**11/20/2003**	**7/2/2004**	**12/7/2004**	**5/11/2005**	**11/3/2005**	**5/10/2006**	**11/8/2006**
1,1 - Dichloroethene	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1,1 - Dichloroethane	2.10	0.0	0.0	4.07	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1,2 - Dichloroethane	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1,1,1 - Trichloroethane	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

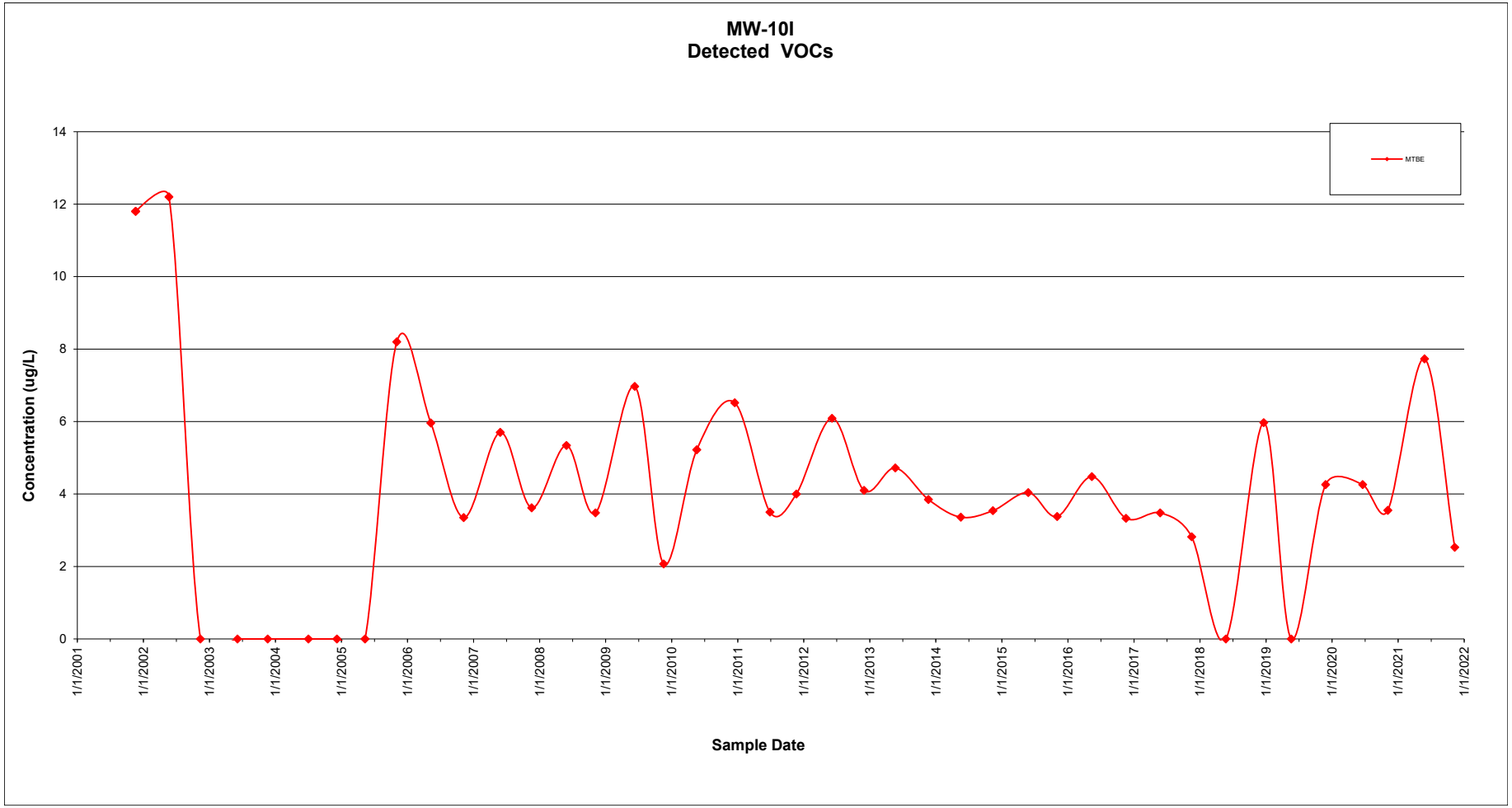
	MW-9D	MW-9D	MW-9D	MW-9D	MW-9D	MW-9D	MW-9D	MW-9D	MW-9D	MW-9D	MW-9D	MW-9D	MW-9D	MW-9D	MW-9D	MW-9D
Total Volatiles (601/602) (ug/L)	**11/8/1998**	**5/1/1999**	**11/23/1999**	**6/1/2000**	**11/30/2000**	**5/9/2001**	**11/19/2001**	**5/23/2002**	**11/13/2002**	**6/6/2003**	**11/20/2003**	**7/2/2004**	**12/7/2004**	**5/11/2005**	**11/3/2005**	**5/10/2006**	**11/8/2006**
Vinyl Chloride	26.7	20.1	28.4	35.9	28.4	28.4	0.0	92.3	0.0	0.0	0.0	0.0	0.0	0.0	36.5	72.7	0.0

	MW-9D	MW-9D	MW-9D	MW-9D	MW-9D	MW-9D	MW-9D	MW-9D	MW-9D	MW-9D	MW-9D	MW-9D	MW-9D	MW-9D	MW-9D	MW-9D	MW-9D
Total Volatiles (601/602) (ug/L)	**5/29/2007**	**11/19/2007**	**5/29/2008**	**11/6/2008**	**6/11/2009**	**11/18/2009**	**5/20/2010**	**12/16/2010**	**6/29/2011**	**11/22/2011**	**6/6/2012**	**11/30/2012**	**5/22/2013**	**11/21/2013**	**5/19/2014**	**11/13/2014**	**5/27/2015**	**11/3/2015**
1,1 - Dichloroethene	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	27.0	0.0	0.0	0.0	0.0	0.0	0.0
1,1 - Dichloroethane	0.0	6.30	2.29	0.0	0.0	2.96	0.0	0.0	36.9	0.0	7.2	0.0	6.4	17.4	0.0	6.98	0.0	5.4
1,2 - Dichloroethane	0.0	0.0	0.0	2.04	0.0	0.0	0.0	14.1	0.0	8.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1,1,1 - Trichloroethane	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.7	0.0	0.0	3.8	0.0	0.0	0.0	0.0	0.0	0.0

	MW-9D	MW-9D	MW-9D	MW-9D	MW-9D	MW-9D	MW-9D	MW-9D	MW-9D	MW-9D	MW-9D	MW-9D	MW-9D	MW-9D	MW-9D	MW-9D	MW-9D	MW-9D
Total Volatiles (601/602) (ug/L)	**5/29/2007**	**11/19/2007**	**5/29/2008**	**11/6/2008**	**6/11/2009**	**11/18/2009**	**5/20/2010**	**12/16/2010**	**6/29/2011**	**11/22/2011**	**6/6/2012**	**11/30/2012**	**5/22/2013**	**11/21/2013**	**5/19/2014**	**11/13/2014**	**5/27/2015**	**11/3/2015**
Vinyl Chloride	4.92	40.1	27.3	6.83	0.0	11.3	0.0	11.8	54.2	27.8	14.9	120	35.5	73.8	38.0	21.7	0.0	15.1

	MW-9D	MW-9D	MW-9D	MW-9D	MW-9D	MW-9D	MW-9D	MW-9D	MW-9D	MW-9D	MW-9D	MW-9D
Total Volatiles (601/602) (ug/L)	**5/13/2016**	**11/18/2016**	**5/26/2017**	**11/16/2017**	**5/24/2018**	**12/20/2018**	**5/21/2019**	**11/27/2019**	**6/19/2020**	**11/5/2020**	**5/27/2021**	**11/10/2021**
1,1 - Dichloroethene	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1,1 - Dichloroethane	0.0	0.0	0.0	2.07	0.0	0.0	2.44	0.0	1.09	2.38	0.0	3.35
1,2 - Dichloroethane	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1,1,1 - Trichloroethane	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

	MW-9D	MW-9D	MW-9D	MW-9D	MW-9D	MW-9D	MW-9D	MW-9D	MW-9D	MW-9D	MW-9D	MW-9D
Total Volatiles (601/602) (ug/L)	**5/13/2016**	**11/18/2016**	**5/26/2017**	**11/16/2017**	**5/24/2018**	**12/20/2018**	**5/21/2019**	**11/27/2019**	**6/19/2020**	**11/5/2020**	**5/27/2021**	**11/10/2021**
Vinyl Chloride	19.6	19.8	61.9	20.4	0.0	41.7	4.29	7.43	0.00	4.21	4.35	5.75

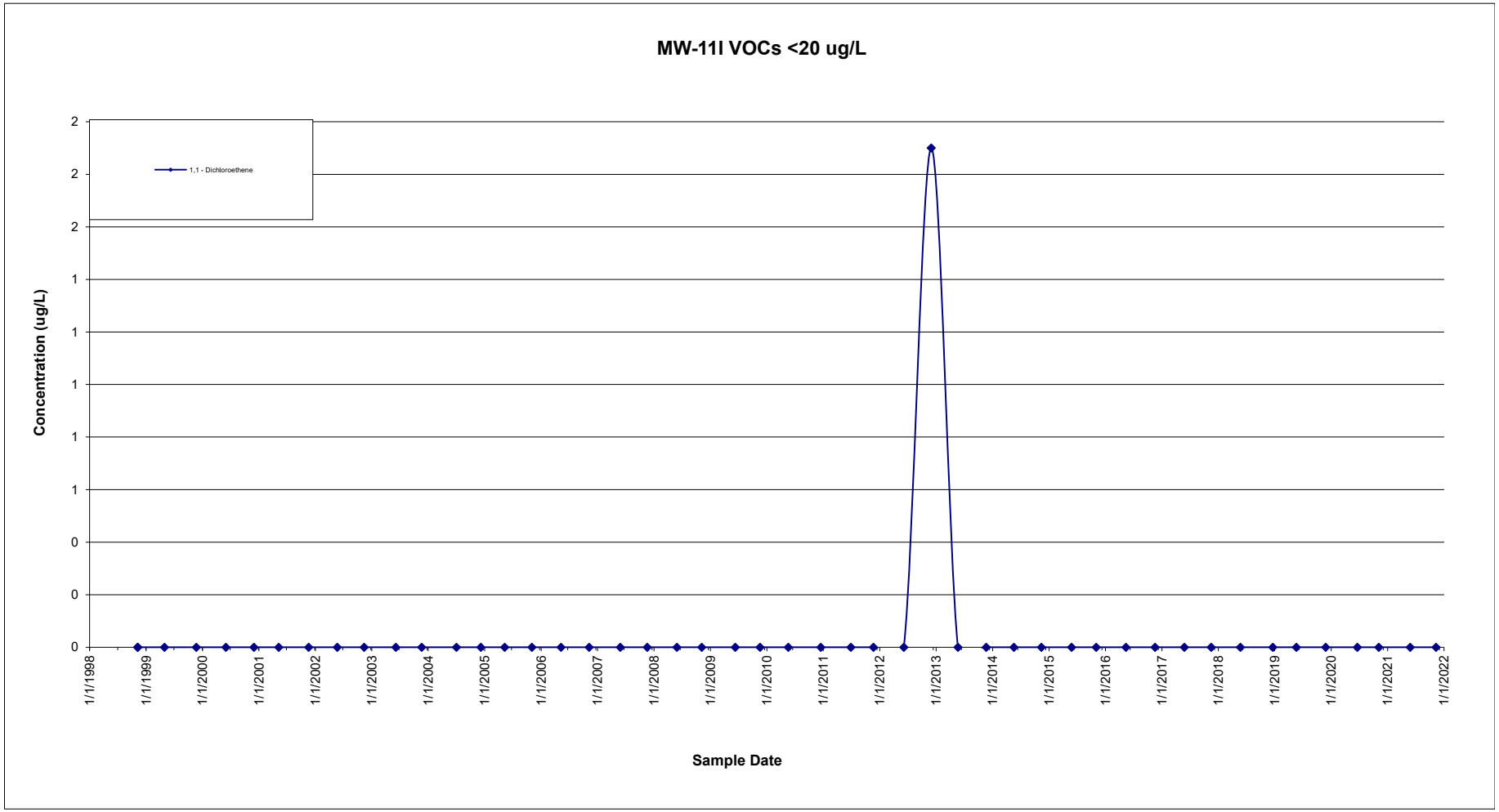

MW-10I
Detected VOCs
MTBE
Concentration (ug/L)
0
2
4
6
8
10
12
14
1/1/2001
1/1/2002
1/1/2003
1/1/2004
1/1/2005
1/1/2006
1/1/2007
1/1/2008
1/1/2009
1/1/2010
1/1/2011
1/1/2012
1/1/2013
1/1/2014
1/1/2015
1/1/2016
1/1/2017
1/1/2018
1/1/2019
1/1/2020
1/1/2021
1/1/2022
Sample Date

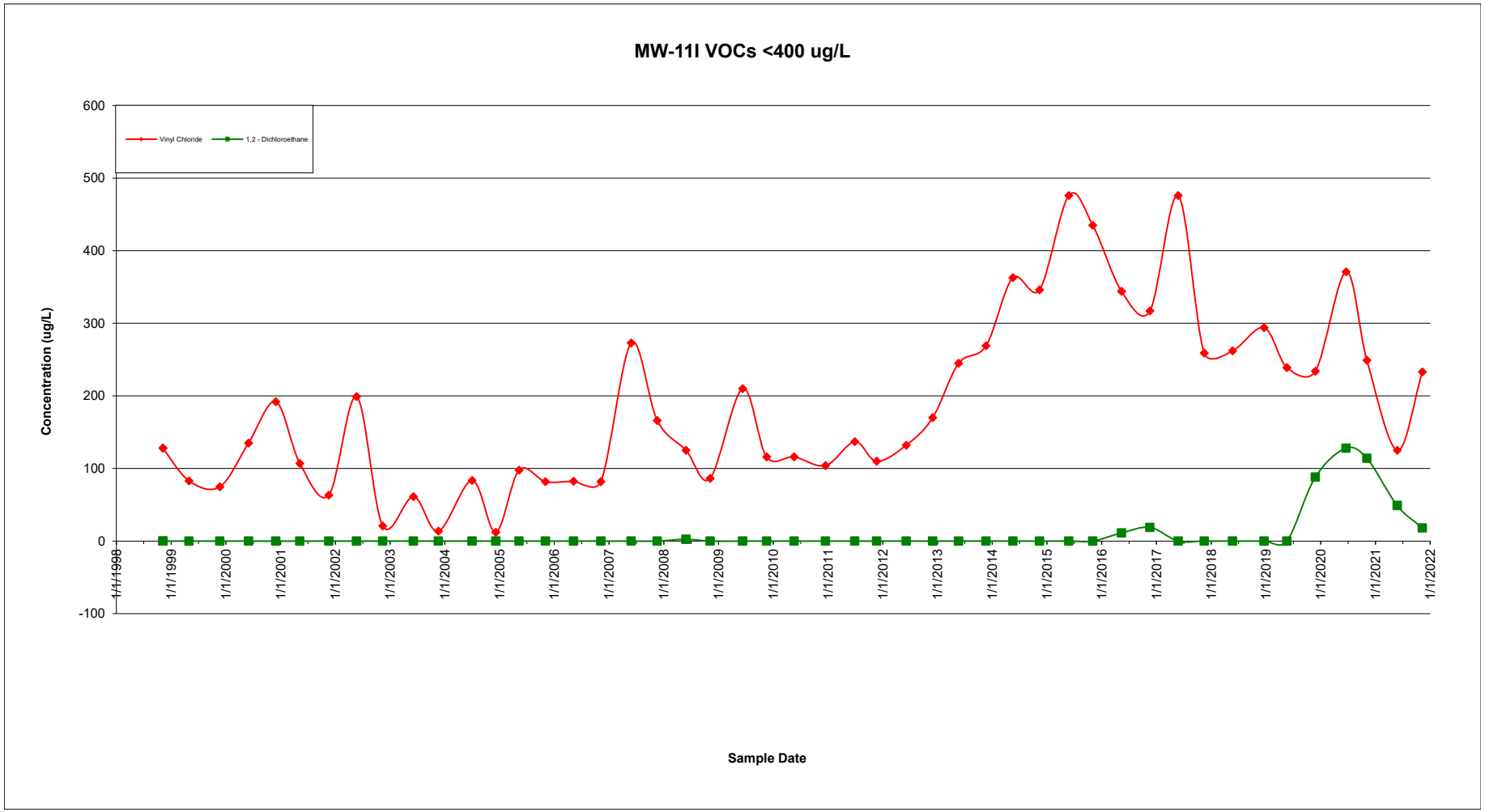
	MW-10I	MW-10I	MW-10I	MW-10I	MW-10I	MW-10I	MW-10I	MW-10I	MW-10I	MW-10I	MW-10I
Total Volatiles (601/602) (ug/L)	**11/8/1998**	**5/1/1999**	**11/23/1999**	**6/1/2000**	**11/30/2000**	**5/9/2001**	**11/19/2001**	**5/23/2002**	**11/13/2002**	**6/6/2003**	**11/20/2003**
MTBE	NS	NS	NS	NS	NS	NS	11.80	12.20	0.0	0.0	0.0

	MW-10I	MW-10I	MW-10I	MW-10I	MW-10I	MW-10I	MW-10I	MW-10I	MW-10I	MW-10I	MW-10I	MW-10I
Total Volatiles (601/602) (ug/L)	**7/2/2004**	**12/7/2004**	**5/11/2005**	**11/3/2005**	**5/10/2006**	**11/8/2006**	**5/29/2007**	**11/19/2007**	**5/29/2008**	**11/6/2008**	**6/11/2009**	**11/18/2009**
MTBE	0.0	0.0	0.0	8.20	5.96	3.35	5.70	3.62	5.34	3.48	6.97	2.07

	MW-10I	MW-10I	MW-10I	MW-10I	MW-10I	MW-10I	MW-10I	MW-10I	MW-10I	MW-10I	MW-10I	MW-10I
Total Volatiles (601/602) (ug/L)	**5/20/2010**	**12/16/2010**	**6/29/2011**	**11/22/2011**	**6/6/2012**	**11/30/2012**	**5/22/2013**	**11/21/2013**	**5/19/2014**	**11/13/2014**	**5/27/2015**	**11/3/2015**
MTBE	5.22	6.52	3.50	4.00	6.09	4.10	4.72	3.85	3.36	3.54	4.04	3.38

	MW-101	MW-101	MW-101	MW-101	MW-101	MW-101	MW-101	MW-101	MW-101	MW-101	MW-101	MW-101
Total Volatiles (601/602) (ug/L)	**5/13/2016**	**11/18/2016**	**5/26/2017**	**11/16/2017**	**5/24/2018**	**12/20/2018**	**5/21/2019**	**11/27/2019**	**6/19/2020**	**11/5/2020**	**5/27/2021**	**11/10/2021**
MTBE	4.48	3.33	3.48	2.82	0.0	5.97	0.0	4.26	4.26	3.55	7.73	2.53


MW-11I VOCs <20 ug/L
1,1 - Dichloroethene
Concentration (ug/L)
2
2
2
1
1
1
1
1
0
0
0
1/1/1998
1/1/1999
1/1/2000
1/1/2001
1/1/2002
1/1/2003
1/1/2004
1/1/2005
1/1/2006
1/1/2007
1/1/2008
1/1/2009
1/1/2010
1/1/2011
1/1/2012
1/1/2013
1/1/2014
1/1/2015
1/1/2016
1/1/2017
1/1/2018
1/1/2019
1/1/2020
1/1/2021
1/1/2022
Sample Date


MW-11I VOCs <400 ug/L
Vinyl Chloride
1,2 - Dichloroethane
Concentration (ug/L)
600
500
400
300
200
100
0
-100
1/1/1998
1/1/1999
1/1/2000
1/1/2001
1/1/2002
1/1/2003
1/1/2004
1/1/2005
1/1/2006
1/1/2007
1/1/2008
1/1/2009
1/1/2010
1/1/2011
1/1/2012
1/1/2013
1/1/2014
1/1/2015
1/1/2016
1/1/2017
1/1/2018
1/1/2019
1/1/2020
1/1/2021
1/1/2022
Sample Date

	MW-11I	MW-11I	MW-11I	MW-11I	MW-11I	MW-11I	MW-11I	MW-11I	MW-11I	MW-11I	MW-11I
Total Volatiles (601/602) (ug/L)	**11/8/1998**	**5/1/1999**	**11/23/1999**	**6/1/2000**	**11/30/2000**	**5/9/2001**	**11/19/2001**	**5/23/2002**	**11/13/2002**	**6/6/2003**	**11/20/2003**
1,1 - Dichloroethene	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1,2 - Dichloroethane	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

	MW-11I	MW-11I	MW-11I	MW-11I	MW-11I	MW-11I	MW-11I	MW-11I	MW-11I	MW-11I	MW-11I
Total Volatiles (601/602) (ug/L)	**11/8/1998**	**5/1/1999**	**11/23/1999**	**6/1/2000**	**11/30/2000**	**5/9/2001**	**11/19/2001**	**5/23/2002**	**11/13/2002**	**6/6/2003**	**11/20/2003**
Vinyl Chloride	128.1	82.9	74.8	135	192	107	63.3	199	20.9	61.1	13.7

	MW-11I	MW-11I	MW-11I	MW-11I	MW-11I	MW-11I	MW-11I	MW-11I	MW-11I	MW-11I	MW-11I	MW-11I
Total Volatiles (601/602) (ug/L)	**7/2/2004**	**12/7/2004**	**5/11/2005**	**11/3/2005**	**5/10/2006**	**11/8/2006**	**5/29/2007**	**11/19/2007**	**5/29/2008**	**11/6/2008**	**6/11/2009**	**11/18/2009**
1,1 - Dichloroethene	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1,2 - Dichloroethane	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.34	0.0	0.0	0.0

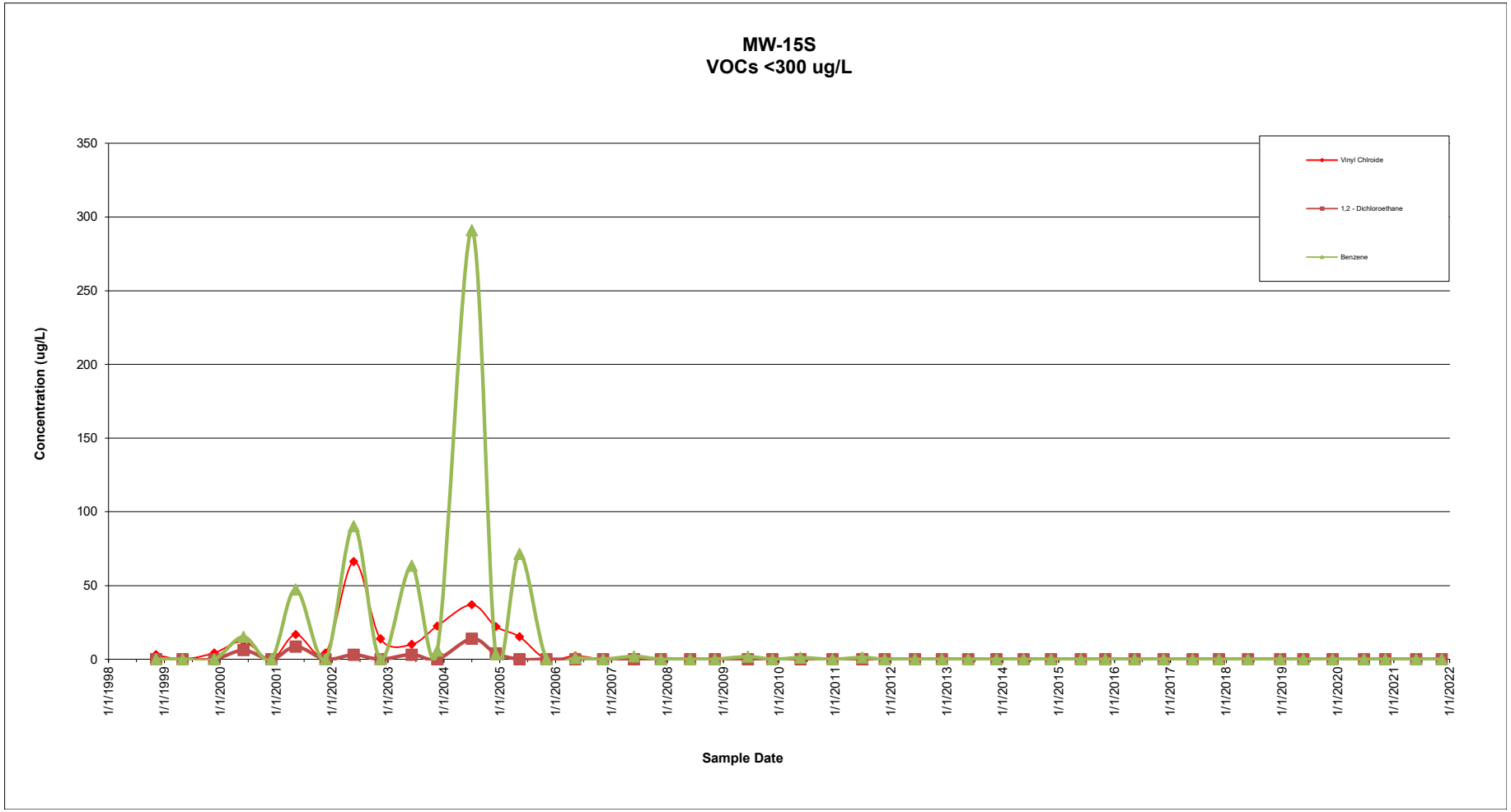
	MW-11I	MW-11I	MW-11I	MW-11I	MW-11I	MW-11I	MW-11I	MW-11I	MW-11I	MW-11I	MW-11I	MW-11I
Total Volatiles (601/602) (ug/L)	**7/2/2004**	**12/7/2004**	**5/11/2005**	**11/3/2005**	**5/10/2006**	**11/8/2006**	**5/29/2007**	**11/19/2007**	**5/29/2008**	**11/6/2008**	**6/11/2009**	**11/18/2009**
Vinyl Chloride	83.4	12.1	97.8	81.9	82.4	81.8	273	166	125	86.4	210	116

	MW-11I	MW-11I	MW-11I	MW-11I	MW-11I	MW-11I	MW-11I	MW-11I	MW-11I	MW-11I	MW-11I	MW-11I
Total Volatiles (601/602) (ug/L)	**5/20/2010**	**12/16/2010**	**6/29/2011**	**11/22/2011**	**6/6/2012**	**11/30/2012**	**5/22/2013**	**11/21/2013**	**5/19/2014**	**11/13/2014**	**5/27/2015**	**11/3/2015**
1,1 - Dichloroethene	0.0	0.0	0.0	0.0	0.0	1.9	0.0	0.0	0.0	0.0	0.0	0.0
1,2 - Dichloroethane	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

	MW-11I	MW-11I	MW-11I	MW-11I	MW-11I	MW-11I	MW-11I	MW-11I	MW-11I	MW-11I	MW-11I	MW-11I
Total Volatiles (601/602) (ug/L)	**5/20/2010**	**12/16/2010**	**6/29/2011**	**11/22/2011**	**6/6/2012**	**11/30/2012**	**5/22/2013**	**11/21/2013**	**5/19/2014**	**11/13/2014**	**5/27/2015**	**11/3/2015**
Vinyl Chloride	116	104	137	110	132	170	245	269	363	346	476	435

	MW-11I	MW-11I	MW-11I	MW-11I	MW-11I	MW-11I	MW-11I	MW-11I	MW-11I	MW-11I	MW-11I	MW-11I
Total Volatiles (601/602) (ug/L)	**5/13/2016**	**11/18/2016**	**5/26/2017**	**11/16/2017**	**5/24/2018**	**12/20/2018**	**5/21/2019**	**11/27/2019**	**6/19/2020**	**11/5/2020**	**5/27/2021**	**11/10/2021**
1,1 - Dichloroethene	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1,2 - Dichloroethane	11.2	18.8	0.0	0.0	0.0	0.0	0.0	88.2	128.0	114.0	48.9	18.0

	MW-11I	MW-11I	MW-11I	MW-11I	MW-11I	MW-11I	MW-11I	MW-11I	MW-11I	MW-11I	MW-11I	MW-11I
Total Volatiles (601/602) (ug/L)	**5/13/2016**	**11/18/2016**	**5/26/2017**	**11/16/2017**	**5/24/2018**	**12/20/2018**	**5/21/2019**	**11/27/2019**	**6/19/2020**	**11/5/2020**	**5/27/2021**	**11/10/2021**
Vinyl Chloride	344	317	476	259	262	294	239	234	371	249	125	233


MW-15S
VOCs <300 ug/L
Concentration (ug/L)
350
300
250
200
150
100
50
0
1/1/1998
1/1/1999
1/1/2000
1/1/2001
1/1/2002
1/1/2003
1/1/2004
1/1/2005
1/1/2006
1/1/2007
1/1/2008
1/1/2009
1/1/2010
1/1/2011
1/1/2012
1/1/2013
1/1/2014
1/1/2015
1/1/2016
1/1/2017
1/1/2018
1/1/2019
1/1/2020
1/1/2021
1/1/2022
Sample Date
Vinyl Chloride
1,2 - Dichloroethane
Benzene

	MW-15S	MW-15S	MW-15S	MW-15S	MW-15S	MW-15S	MW-15S	MW-15S	MW-15S	MW-15S	MW-15S
Total Volatiles (601/602) (ug/L)	**11/8/1998**	**5/1/1999**	**11/23/1999**	**6/1/2000**	**11/30/2000**	**5/9/2001**	**11/19/2001**	**5/23/2002**	**11/13/2002**	**6/6/2003**	**11/20/2003**
Vinyl Chlroide	3.00	0.0	4.30	12.1	0.0	16.8	4.30	66.3	13.9	10.1	22.6
1,2 - Dichloroethane	0.0	0.0	0.0	6.20	0.0	8.60	0.0	3.10	0.0	3.18	0.0
Benzene	0.0	0.0	0.0	15.2	0.0	47.4	0.0	90.3	0.0	63.4	5.89

	MW-15S	MW-15S	MW-15S	MW-15S	MW-15S	MW-15S	MW-15S	MW-15S	MW-15S	MW-15S	MW-15S	MW-15S
Total Volatiles (601/602) (ug/L)	**7/2/2004**	**12/7/2004**	**5/11/2005**	**11/3/2005**	**5/10/2006**	**11/8/2006**	**5/29/2007**	**11/19/2007**	**5/29/2008**	**11/6/2008**	**6/11/2009**	**11/18/2009**
Vinyl Chlroide	37.0	22.2	15.3	0.0	2.33	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1,2 - Dichloroethane	14.0	3.98	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Benzene	291	3.37	71.5	0.0	0.95	0.0	1.98	0.0	0.0	0.0	1.90	0.0

	MW-15S	MW-15S	MW-15S	MW-15S	MW-15S	MW-15S	MW-15S	MW-15S	MW-15S	MW-15S	MW-15S	MW-15S
Total Volatiles (601/602) (ug/L)	**5/20/2010**	**12/16/2010**	**6/29/2011**	**11/22/2011**	**6/6/2012**	**11/30/2012**	**5/22/2013**	**11/21/2013**	**5/19/2014**	**11/13/2014**	**5/27/2015**	**11/3/2015**
Vinyl Chlroide	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1,2 - Dichloroethane	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Benzene	1.04	0.0	1.23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

	MW-15S	MW-15S	MW-15S	MW-15S	MW-15S	MW-15S	MW-15S	MW-15S	MW-15S	MW-15S	MW-15S	MW-15S
Total Volatiles (601/602) (ug/L)	**5/13/2016**	**11/18/2016**	**5/26/2017**	**11/16/2017**	**5/24/2018**	**12/20/2018**	**5/21/2019**	**11/27/2019**	**6/19/2020**	**11/5/2020**	**5/27/2021**	**11/10/2021**
Vinyl Chlroide	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1,2 - Dichloroethane	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Benzene	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

APPENDIX C

ANALYTICAL DATA
LABORATORY REPORTS

PARADIGM ENVIRONMENTAL SERVICES, INC.

Analytical Report For

City of Rochester

For Lab Project ID

210170

Referencing

RFA Monthly Sampling DEQ-98045

Prepared

Tuesday, January 19, 2021

Any noncompliant QC parameters or other notes impacting data interpretation are flagged or documented on the final report or are noted below.

Certifies that this report has been approved by the Technical Director or Designee

179 Lake Avenue • Rochester, NY 14608 • (585) 647-2530 • Fax (585) 647-3311 • ELAP ID# 10958

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 210170

Client: **City of Rochester**

Project Reference: RFA Monthly Sampling DEQ-98045

Sample Identifier:	Effluent		
Lab Sample ID:	210170-01	**Date Sampled:**	1/12/2021
Matrix:	Water	**Date Received:**	1/12/2021

pH

Analyte	Result	Units	Qualifier	Date Analyzed
pH	8.33 @ 12.3 C	S.U.		1/12/2021 12:16

Method Reference(s): SM22 4500 H+ B

ELAP does not offer this test for approval as part of their laboratory certification program.

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed
1,1,1-Trichloroethane	< 2.00	ug/L		1/15/2021 16:45
1,1,2,2-Tetrachloroethane	< 2.00	ug/L		1/15/2021 16:45
1,1,2-Trichloroethane	< 2.00	ug/L		1/15/2021 16:45
1,1-Dichloroethane	**7.75**	ug/L		1/15/2021 16:45
1,1-Dichloroethene	< 2.00	ug/L		1/15/2021 16:45
1,2-Dichlorobenzene	< 2.00	ug/L		1/15/2021 16:45
1,2-Dichloroethane	< 2.00	ug/L		1/15/2021 16:45
1,2-Dichloropropane	< 2.00	ug/L		1/15/2021 16:45
1,3-Dichlorobenzene	< 2.00	ug/L		1/15/2021 16:45
1,4-Dichlorobenzene	< 2.00	ug/L		1/15/2021 16:45
2-Butanone	< 10.0	ug/L		1/15/2021 16:45
2-Chloroethyl vinyl Ether	< 10.0	ug/L		1/15/2021 16:45
4-Methyl-2-pentanone	< 5.00	ug/L		1/15/2021 16:45
Acetone	< 10.0	ug/L		1/15/2021 16:45
Benzene	< 1.00	ug/L		1/15/2021 16:45
Bromodichloromethane	< 2.00	ug/L		1/15/2021 16:45
Bromoform	< 5.00	ug/L		1/15/2021 16:45
Bromomethane	< 2.00	ug/L		1/15/2021 16:45
Carbon Tetrachloride	< 2.00	ug/L		1/15/2021 16:45
Chlorobenzene	< 2.00	ug/L		1/15/2021 16:45
Chloroethane	< 2.00	ug/L		1/15/2021 16:45
Chloroform	< 2.00	ug/L		1/15/2021 16:45

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 210170

Client: **City of Rochester**

Project Reference: RFA Monthly Sampling DEQ-98045

Sample Identifier:	Effluent		
Lab Sample ID:	210170-01	**Date Sampled:**	1/12/2021
Matrix:	Water	**Date Received:**	1/12/2021

Chloromethane	< 2.00	ug/L	1/15/2021	16:45
cis-1,3-Dichloropropene	< 2.00	ug/L	1/15/2021	16:45
Dibromochloromethane	< 2.00	ug/L	1/15/2021	16:45
Ethylbenzene	< 2.00	ug/L	1/15/2021	16:45
Methylene chloride	< 5.00	ug/L	1/15/2021	16:45
Tetrachloroethene	< 2.00	ug/L	1/15/2021	16:45
Toluene	< 2.00	ug/L	1/15/2021	16:45
trans-1,2-Dichloroethene	< 2.00	ug/L	1/15/2021	16:45
trans-1,3-Dichloropropene	< 2.00	ug/L	1/15/2021	16:45
Trichloroethene	< 2.00	ug/L	1/15/2021	16:45
Vinyl chloride	< 2.00	ug/L	1/15/2021	16:45

Surrogate	**Percent Recovery**	**Limits**	**Outliers**	**Date Analyzed**	
1,2-Dichloroethane-d4	**108**	64 - 142		1/15/2021	16:45
4-Bromofluorobenzene	**68.2**	37.2 - 146		1/15/2021	16:45
Pentafluorobenzene	**105**	91.4 - 114		1/15/2021	16:45
Toluene-D8	**95.8**	73.1 - 120		1/15/2021	16:45

Method Reference(s): EPA 624.1
Data File: x75909.D

Analytical Report Appendix

The reported results relate only to the samples as they have been received by the laboratory.

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All soil/sludge samples have been reported on a dry weight basis, unless qualified "reported as received". Other solids are reported as received.

Low level Volatiles blank reports for soil/solid matrix are based on a nominal 5 gram weight. Sample results and reporting limits are based on actual weight, which may be more or less than 5 grams.

The Chain of Custody provides additional information, including compliance with sample condition requirements upon receipt. Sample condition requirements are defined under the 2003 NELAC Standard, sections 5.5.8.3.1 and 5.5.8.3.2.

NYSDOH ELAP does not certify for all parameters. Paradigm Environmental Services or the indicated subcontracted laboratory does hold certification for all analytes where certification is offered by ELAP unless otherwise specified. Aliquots separated for certain tests, such as TCLP, are indicated on the Chain of Custody and final reports with an "A" suffix.

Data qualifiers are used, when necessary, to provide additional information about the data. This information may be communicated as a flag or as text at the bottom of the report. Please refer to the following list of analyte-specific, frequently used data flags and their meaning:

"<" = Analyzed for but not detected at or above the quantitation limit.
"E" = Result has been estimated, calibration limit exceeded.
"Z" = See case narrative.
"D" = Sample, Laboratory Control Sample, or Matrix Spike Duplicate results above Relative Percent Difference limit.
"M" = Matrix spike recoveries outside QC limits. Matrix bias indicated.
"B" = Method blank contained trace levels of analyte. Refer to included method blank report.
"J" = Result estimated between the quantitation limit and half the quantitation limit.
"L" = Laboratory Control Sample recovery outside accepted QC limits.
"P" = Concentration differs by more than 40% between the primary and secondary analytical columns.
"NC" = Not calculable. Applicable to RPD if sample or duplicate result is non-detect or estimated (see primary report for data flags). Applicable to MS if sample is greater or equal to ten times the spike added. Applicable to sample surrogates or MS if sample dilution is 10x or higher.
"" = Indicates any recoveries outside associated acceptance windows. Surrogate outliers in samples are presumed matrix effects. LCS demonstrates method compliance unless otherwise noted.*
"(1)" = Indicates data from primary column used for QC calculation.
"A" = denotes a parameter for which ELAP does not offer approval as part of their laboratory certification program.
"F" = denotes a parameter for which Paradigm does not carry certification, the results for which should therefore only be used where ELAP certification is not required, such as personal exposure assessment.

GENERAL TERMS AND CONDITIONS
LABORATORY SERVICES

These Terms and Conditions embody the whole agreement of the parties in the absence of a signed and executed contract between the Laboratory (LAB) and Client. They shall supersede all previous communications, representations, or agreements, either verbal or written, between the parties. The LAB specifically rejects all additional, inconsistent, or conflicting terms, whether printed or otherwise set forth in any purchase order or other communication from the Client to the LAB. The invalidity or unenforceability in whole or in part of any provision, tern or condition hereof shall not affect in any way the validity or enforceability of the remainder of the Terms and Conditions. No waiver by LAB of any provision, term, or condition hereof or of any breach by or obligation of the Client hereunder shall constitute a waiver of such provision, term, or condition on any other occasion or a waiver of any other breach by or obligation of the Client. This agreement shall be administered and interpreted under the laws of the state which services are procured.

Warranty. Recognizing that the nature of many samples is unknown and that some may contain potentially hazardous components, LAB warrants only that it will perform testing services, obtain findings, and prepare reports in accordance with generally accepted analytical laboratory principles and practices at the time of performance of services. LAB makes no other warranty, express or implied.

Scope and Compensation. LAB agrees to perform the services described in the chain of custody to which these terms and conditions are attached. Unless the parties agree in writing to the contrary, the duties of LAB shall not be construed to exceed the services specifically described. LAB wi use LAB default method for all tests unless specified otherwise on the Work Order.
Payment terms are net 30 days from the date of invoice. All overdue payments are subject to an interest charge of one and one-half percent (1-1/2%) per month or a portion thereof. Client shall also be responsible for costs of collection, including payment of reasonable attorney fees if such expense is incurred. The prices, unless stated, do not include any sale, use or other taxes. Such taxes will be added to invoice prices when required.

Prices. Compensation for services performed will be based on the current Lab Analytical Fee Schedule or on quotations agreed to in writing by the parties. Turnaround time based charges are determined from the time of resolution of all work order questions. Testimony, court appearances or data compilation for legal action will be charged separately. Evaluation and reporting of initial screening runs may incur additional fees.

Limitations of Liability. In the event of any error, omission, or other professional negligence, the sole and exclusive responsibility of LAB shall be to re-perform the deficient work at its own expense and LAB shall have no other liability whatsoever. All claims shall be deemed waived unless made in writing and received by LAB within ninety (90) days following completion of services.
LAB shall have no liability, obligation, or responsibility of any kind for losses, costs, expenses, or other damages (including but not limited to any special, direct, incidental or consequential damages) with respect to LAB's services or results.
All results provided by LAB are strictly for the use of its clients and LAB is in no way responsible for the use of such results by clients or third parties. All reports should be considered in their entirety, and LAB is not responsible for the separation, detachment, or other use of any portion of these reports. Client may not assign the lab report without the written consent of the LAB.
Client covenants and agrees, at its/his/her sole expense, to indemnify, protect, defend, and save harmless the LAB from and against any and all damages, losses, liabilities, obligations, penalties, claims, litigation, demands, defenses, judgments, suits, actions, proceedings, costs, disbursements and/or expenses (including, without limitation attorneys' and experts' fees and disbursements) of any kind whatsoever which may at any time be imposed upon, incurred by or asserted or awarded against client relating to, resulting from or arising out of (a) the breach of this agreement by this client, (b) the negligence of the client in handling, delivering or disclosing any hazardous substance, (c) the violation of the Client of any applicable law, (d) non-compliance by the Client with any environmental permit or (e) a material misrepresentation in disclosing the materials to be tested.

Hazard Disclosure. Client represents and warrants that any sample delivered to LAB will be preceded or accompanied by complete written disclosure of the presence of any hazardous substances known or suspected by Client. Client further warrants that any sample containing any hazardous substance that is to be delivered to LAB will be packaged, labeled, transported, and delivered properly and in accordance with applicable laws.

Sample Handling. Prior to LAB's acceptance of any sample (or after any revocation of acceptance), the entire risk of loss or of damage to such sample remains with Client. Samples are accepted when receipt is acknowledged on chain of custody documentation. In no event will LAB have any responsibility for the action or inaction of any carrier shipping or delivering any sample to or from LAB premises.
Client authorizes LAB to proceed with the analysis of samples as received by the laboratory, recognizing that any samples not in compliance with all current DOH-ELAP-NELAP requirements for containers, preservation or holding time will be noted as such on th final report.
Disposal of hazardous waste samples is the responsibility of the Client. If the Client does not wish such samples returned, LAB may add storage and disposal fees to the final invoice. Maximum storage time for samples is 30 days after completion of analysis unless modified by applicable state or federal laws. Client will be required to give the LAB written instructions concerning disposal of these samples.
LAB reserves the absolute right, exercisable at any time, to refuse to receive delivery of, refuse to accept, or revoke acceptance of any sample, which, in the sole judgment of LAB (a) is of unsuitable volume, (b) may be or become unsuitable for or may pose a risk in handling, transport, or processing for any health, safety, environmental or other reason whether or not due to the presence in the sample of any hazardous substance, and whether or not such presence has been disclosed to LAB by Client or (c) if the condition or sample date make the sample unsuitable for analysis.

Legal Responsibility. LAB is solely responsible for performance of this contract, and no affiliated company, director, officer, employee, or agent shall have any legal responsibility hereunder, whether in contract or tort including negligence.

Assignment. LAB may assign its performance obligations under this contract to other parties, as it deems necessary. LAB shall disclose to Client any assignee (subcontractor) by ELAP ID # on the submitted final report.

Force Majeure. LAB shall have no responsibility or liability to the Client for any failure or delay in performance by LAB, which results in whole or in part from any cause or circumstance beyond the reasonable control of LAB. Such causes and circumstances shall include, but not limited to, acts of God, acts or orders of any government authority, strikes or other labor disputes, natural disasters, accidents, wars, civil disturbances, difficulties or delays in transportation, mail or delivery services, inability to obtain sufficient services or supplies from LAB's usual suppliers, or any other cause beyond LAB's reasonable control.

Law. This contract shall be continued under the laws of the State of New York without regard to its conflicts of laws provision.

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

1 of 2

CHAIN OF CUSTODY

PARADIGM

REPORT TO:		INVOICE TO:		
CLIENT:	City of Rochester	CLIENT:	Same	LAB PROJECT ID: 210170
ADDRESS:	30 Church Street, Room 300B	ADDRESS:		
CITY:	Rochester STATE: NY ZIP: 14614	CITY:	STATE: ZIP:	Quotation #:
PHONE:		PHONE:		Email: alexandra.zobel@cityofrochester.gov
ATTN:	Alexandra Zobel	ATTN:		

PROJECT REFERENCE

RFA Monthly Sampling DEQ-98045
PO#21001332

Matrix Codes:
AQ - Aqueous Liquid; NQ - Non-Aqueous Liquid; WA - Water; WG - Groundwater; DW - Drinking Water; WW - Wastewater; SO - Soil; SL - Sludge; SD - Solid; PT - Paint; WP - Wipe; CK - Caulk; OL - Oil; AR - Air

REQUESTED ANALYSIS

DATE COLLECTED	TIME COLLECTED	COMPOSITE	GRAB	SAMPLE IDENTIFIER	MATRIX CODES	NUMBER OF CONTAINERS	624 Site Specific	pH								REMARKS	PARADIGM LAB SAMPLE NUMBER
1/12/2021	1100		X	Effluent	Water	3	X	X								624 Site Specific =VRFA Test Name	01

Turnaround Time		Report Supplements			
Availability contingent upon lab approval; additional fees may apply.					
Standard 5 day	☐	None Required	☐	None Required	☐
10 day	☒	Batch QC	☐	Basic EDD	☐
Rush 3 day	☐	Category A	☐	NYSDEC EDD	☐
Rush 2 day	☐	Category B	☐		
Rush 1 day	☐				
Other (please indicate date needed: ____)	☐	Other (please indicate package needed: ____)	☐	Other EDD (please indicate EDD needed: ____)	☐

A. Zobel — Sampled By — 1/12/2021 @ 1100 — Date/Time

A. Zobel — Relinquished By — 1/12/2021 @ 1200 — Date/Time

Received By — 1/12/2021 12pm — Date/Time

2P2 — Received @ Lab By — 1/12/21 12:03 — Date/Time

Total Cost:

P.I.F.

By signing this form, client agrees to Paradigm Terms and Conditions (reverse).

6°C 1/12/21 12:03

See additional page for sample conditions.

PARADIGM

Chain of Custody Supplement

Client: City of Rochester **Completed by:** Glenn Pezzulo

Lab Project ID: 210170 **Date:** 1/12/21

Sample Condition Requirements

Per NELAC/ELAP 210/241/242/243/244

Condition	*NELAC compliance with the sample condition requirements upon receipt* Yes	No	N/A
Container Type	X		
Comments			
Transferred to method-compliant container			X
Headspace (<1 mL)	X VOA		X
Comments			
Preservation	X VOA		X
Comments			
Chlorine Absent (<0.10 ppm per test strip)	X		X
Comments	VOA 624: Cl neg		
Holding Time	X	X pH	
Comments			
Temperature	X		X pH
Comments	6°C		
Compliant Sample Quantity/Type	X		
Comments			

PARADIGM

PARADIGM
ENVIRONMENTAL SERVICES, INC

Analytical Report For

City of Rochester

For Lab Project ID

210757

Referencing

RFA Quarterly Sampling

Prepared

Friday, March 12, 2021

Any noncompliant QC parameters or other notes impacting data interpretation are flagged or documented on the final report or are noted below.

Certifies that this report has been approved by the Technical Director or Designee

179 Lake Avenue • Rochester, NY 14608 • (585) 647-2530 • Fax (585) 647-3311 • ELAP ID# 10958

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 210757

Client: **City of Rochester**

Project Reference: RFA Quarterly Sampling

Sample Identifier:	Effluent		
Lab Sample ID:	210757-01	**Date Sampled:**	2/26/2021
Matrix:	Water	**Date Received:**	2/26/2021

Metals

Analyte	Result	Units	Qualifier	Date Analyzed
Arsenic	**0.00618**	mg/L		3/3/2021 11:35
Cadmium	< 0.00250	mg/L		3/3/2021 11:35
Chromium	< 0.00500	mg/L		3/3/2021 11:35
Copper	< 0.0100	mg/L		3/3/2021 11:35
Lead	< 0.00500	mg/L		3/3/2021 11:35
Nickel	< 0.0200	mg/L		3/3/2021 11:35
Selenium	< 0.0100	mg/L		3/3/2021 11:35
Zinc	< 0.0300	mg/L		3/3/2021 11:35

Method Reference(s): EPA 200.7 Rev 4.4 (1994)
Preparation Date: 3/2/2021
Data File: 210303A

Chlorinated Pesticides

Analyte	Result	Units	Qualifier	Date Analyzed
4,4-DDD	< 0.200	ug/L		3/11/2021 12:52
4,4-DDE	< 0.200	ug/L		3/11/2021 12:52
4,4-DDT	< 0.300	ug/L		3/11/2021 12:52
Aldrin	< 0.200	ug/L		3/11/2021 12:52
alpha-BHC	< 0.200	ug/L		3/11/2021 12:52
beta-BHC	< 0.200	ug/L		3/11/2021 12:52
cis-Chlordane	< 0.200	ug/L		3/11/2021 12:52
delta-BHC	< 0.200	ug/L		3/11/2021 12:52
Dieldrin	< 0.200	ug/L		3/11/2021 12:52
Endosulfan I	< 0.200	ug/L		3/11/2021 12:52
Endosulfan II	< 0.200	ug/L		3/11/2021 12:52
Endosulfan Sulfate	< 0.200	ug/L		3/11/2021 12:52
Endrin	< 0.200	ug/L		3/11/2021 12:52
Endrin Aldehyde	< 0.300	ug/L		3/11/2021 12:52

Lab Project ID: 210757

Client: **City of Rochester**

Project Reference: RFA Quarterly Sampling

Sample Identifier: Effluent
Lab Sample ID: 210757-01 **Date Sampled:** 2/26/2021
Matrix: Water **Date Received:** 2/26/2021

gamma-BHC (Lindane)	< 0.200	ug/L		3/11/2021 12:52
Heptachlor	< 0.200	ug/L		3/11/2021 12:52
Heptachlor Epoxide	< 0.200	ug/L		3/11/2021 12:52
Methoxychlor	< 0.200	ug/L		3/11/2021 12:52
Toxaphene	< 2.00	ug/L		3/11/2021 12:52
trans-Chlordane	< 0.200	ug/L		3/11/2021 12:52

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
Decachlorobiphenyl (1)	**129**	10 - 185		3/11/2021 12:52
Tetrachloro-m-xylene (1)	**83.0**	20.4 - 124		3/11/2021 12:52

Method Reference(s): EPA 608.3
Preparation Date: 3/1/2021

pH

Analyte	Result	Units	Qualifier	Date Analyzed
pH	8.31 @ 21.1 C	S.U.		2/26/2021 15:39

Method Reference(s): SM22 4500 H+ B
ELAP does not offer this test for approval as part of their laboratory certification program.

Semi-Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed
Diethyl phthalate	< 10.0	ug/L		3/3/2021 15:57

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
2-Fluorobiphenyl	**62.9**	37.2 - 94		3/3/2021 15:57
Nitrobenzene-d5	**67.6**	49 - 102		3/3/2021 15:57
Terphenyl-d14	**61.1**	53.9 - 105		3/3/2021 15:57

Method Reference(s): EPA 625.1
EPA 3510C
Preparation Date: 3/2/2021
Data File: B52514.D

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed
1,1,1-Trichloroethane	< 2.00	ug/L		3/1/2021 16:02

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 210757

Client: **City of Rochester**

Project Reference: RFA Quarterly Sampling

Sample Identifier:	Effluent		
Lab Sample ID:	210757-01	**Date Sampled:**	2/26/2021
Matrix:	Water	**Date Received:**	2/26/2021

1,1,2,2-Tetrachloroethane	< 2.00	ug/L	3/1/2021 16:02
1,1,2-Trichloroethane	< 2.00	ug/L	3/1/2021 16:02
1,1-Dichloroethane	**6.98**	ug/L	3/1/2021 16:02
1,1-Dichloroethene	< 2.00	ug/L	3/1/2021 16:02
1,2-Dichlorobenzene	< 2.00	ug/L	3/1/2021 16:02
1,2-Dichloroethane	< 2.00	ug/L	3/1/2021 16:02
1,2-Dichloropropane	< 2.00	ug/L	3/1/2021 16:02
1,3-Dichlorobenzene	< 2.00	ug/L	3/1/2021 16:02
1,4-Dichlorobenzene	< 2.00	ug/L	3/1/2021 16:02
2-Butanone	< 10.0	ug/L	3/1/2021 16:02
2-Chloroethyl vinyl Ether	< 10.0	ug/L	3/1/2021 16:02
4-Methyl-2-pentanone	< 5.00	ug/L	3/1/2021 16:02
Acetone	< 10.0	ug/L	3/1/2021 16:02
Benzene	< 1.00	ug/L	3/1/2021 16:02
Bromodichloromethane	< 2.00	ug/L	3/1/2021 16:02
Bromoform	< 5.00	ug/L	3/1/2021 16:02
Bromomethane	< 2.00	ug/L	3/1/2021 16:02
Carbon Tetrachloride	< 2.00	ug/L	3/1/2021 16:02
Chlorobenzene	< 2.00	ug/L	3/1/2021 16:02
Chloroethane	< 2.00	ug/L	3/1/2021 16:02
Chloroform	< 2.00	ug/L	3/1/2021 16:02
Chloromethane	< 2.00	ug/L	3/1/2021 16:02
cis-1,3-Dichloropropene	< 2.00	ug/L	3/1/2021 16:02
Dibromochloromethane	< 2.00	ug/L	3/1/2021 16:02
Ethylbenzene	< 2.00	ug/L	3/1/2021 16:02
Methylene chloride	< 5.00	ug/L	3/1/2021 16:02
Tetrachloroethene	< 2.00	ug/L	3/1/2021 16:02
Toluene	< 2.00	ug/L	3/1/2021 16:02
trans-1,2-Dichloroethene	< 2.00	ug/L	3/1/2021 16:02
trans-1,3-Dichloropropene	< 2.00	ug/L	3/1/2021 16:02

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 210757

Client: **City of Rochester**

Project Reference: RFA Quarterly Sampling

Sample Identifier:	Effluent		
Lab Sample ID:	210757-01	**Date Sampled:**	2/26/2021
Matrix:	Water	**Date Received:**	2/26/2021

Trichloroethene	< 2.00	ug/L			3/1/2021 16:02
Vinyl chloride	< 2.00	ug/L			3/1/2021 16:02

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
1,2-Dichloroethane-d4	**140**	64 - 142		3/1/2021 16:02
4-Bromofluorobenzene	**59.3**	37.2 - 146		3/1/2021 16:02
Pentafluorobenzene	**95.1**	91.4 - 114		3/1/2021 16:02
Toluene-D8	**79.1**	73.1 - 120		3/1/2021 16:02

Method Reference(s): EPA 624.1
Data File: x76687.D

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 210757

Client: **City of Rochester**

Project Reference: RFA Quarterly Sampling

Sample Identifier:	Influent		
Lab Sample ID:	210757-02	**Date Sampled:**	2/26/2021
Matrix:	Water	**Date Received:**	2/26/2021

Chlorinated Pesticides

Analyte	Result	Units	Qualifier	Date Analyzed
4,4-DDD	< 0.200	ug/L		3/11/2021 13:09
4,4-DDE	< 0.200	ug/L		3/11/2021 13:09
4,4-DDT	< 0.300	ug/L		3/11/2021 13:09
Aldrin	< 0.200	ug/L		3/11/2021 13:09
alpha-BHC	< 0.200	ug/L		3/11/2021 13:09
beta-BHC	< 0.200	ug/L		3/11/2021 13:09
cis-Chlordane	< 0.200	ug/L		3/11/2021 13:09
delta-BHC	< 0.200	ug/L		3/11/2021 13:09
Dieldrin	< 0.200	ug/L		3/11/2021 13:09
Endosulfan I	< 0.200	ug/L		3/11/2021 13:09
Endosulfan II	< 0.200	ug/L		3/11/2021 13:09
Endosulfan Sulfate	< 0.200	ug/L		3/11/2021 13:09
Endrin	< 0.200	ug/L		3/11/2021 13:09
Endrin Aldehyde	< 0.300	ug/L		3/11/2021 13:09
gamma-BHC (Lindane)	< 0.200	ug/L		3/11/2021 13:09
Heptachlor	< 0.200	ug/L		3/11/2021 13:09
Heptachlor Epoxide	< 0.200	ug/L		3/11/2021 13:09
Methoxychlor	< 0.200	ug/L		3/11/2021 13:09
Toxaphene	< 2.00	ug/L		3/11/2021 13:09
trans-Chlordane	< 0.200	ug/L		3/11/2021 13:09

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
Decachlorobiphenyl (1)	**98.9**	10 - 185		3/11/2021 13:09
Tetrachloro-m-xylene (1)	**65.6**	20.4 - 124		3/11/2021 13:09

Method Reference(s): EPA 608.3
Preparation Date: 3/1/2021

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 210757

Client: **City of Rochester**

Project Reference: RFA Quarterly Sampling

Sample Identifier:	Influent		
Lab Sample ID:	210757-02	**Date Sampled:**	2/26/2021
Matrix:	Water	**Date Received:**	2/26/2021

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed
1,1,1-Trichloroethane	**1610**	ug/L		3/1/2021 15:38
1,1,2,2-Tetrachloroethane	< 100	ug/L		3/1/2021 15:38
1,1,2-Trichloroethane	< 100	ug/L		3/1/2021 15:38
1,1-Dichloroethane	**9270**	ug/L		3/1/2021 15:38
1,1-Dichloroethene	**251**	ug/L		3/1/2021 15:38
1,2-Dichlorobenzene	< 100	ug/L		3/1/2021 15:38
1,2-Dichloroethane	< 100	ug/L		3/1/2021 15:38
1,2-Dichloropropane	< 100	ug/L		3/1/2021 15:38
1,3-Dichlorobenzene	< 100	ug/L		3/1/2021 15:38
1,4-Dichlorobenzene	< 100	ug/L		3/1/2021 15:38
2-Butanone	< 500	ug/L		3/1/2021 15:38
2-Chloroethyl vinyl Ether	< 500	ug/L		3/1/2021 15:38
4-Methyl-2-pentanone	< 250	ug/L		3/1/2021 15:38
Acetone	< 500	ug/L		3/1/2021 15:38
Benzene	< 50.0	ug/L		3/1/2021 15:38
Bromodichloromethane	< 100	ug/L		3/1/2021 15:38
Bromoform	< 250	ug/L		3/1/2021 15:38
Bromomethane	< 100	ug/L		3/1/2021 15:38
Carbon Tetrachloride	< 100	ug/L		3/1/2021 15:38
Chlorobenzene	< 100	ug/L		3/1/2021 15:38
Chloroethane	**508**	ug/L		3/1/2021 15:38
Chloroform	< 100	ug/L		3/1/2021 15:38
Chloromethane	< 100	ug/L		3/1/2021 15:38
cis-1,3-Dichloropropene	< 100	ug/L		3/1/2021 15:38
Dibromochloromethane	< 100	ug/L		3/1/2021 15:38
Ethylbenzene	< 100	ug/L		3/1/2021 15:38
Methylene chloride	< 250	ug/L		3/1/2021 15:38
Tetrachloroethene	< 100	ug/L		3/1/2021 15:38

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 210757

Client: **City of Rochester**

Project Reference: RFA Quarterly Sampling

Sample Identifier:	Influent		
Lab Sample ID:	210757-02	**Date Sampled:**	2/26/2021
Matrix:	Water	**Date Received:**	2/26/2021

Toluene	**104**	ug/L		3/1/2021 15:38
trans-1,2-Dichloroethene	< 100	ug/L		3/1/2021 15:38
trans-1,3-Dichloropropene	< 100	ug/L		3/1/2021 15:38
Trichloroethene	< 100	ug/L		3/1/2021 15:38
Vinyl chloride	**1590**	ug/L		3/1/2021 15:38

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
1,2-Dichloroethane-d4	**139**	64 - 142		3/1/2021 15:38
4-Bromofluorobenzene	**67.3**	37.2 - 146		3/1/2021 15:38
Pentafluorobenzene	**103**	91.4 - 114		3/1/2021 15:38
Toluene-D8	**78.9**	73.1 - 120		3/1/2021 15:38

Method Reference(s): EPA 624.1
Data File: x76686.D

Analytical Report Appendix

The reported results relate only to the samples as they have been received by the laboratory.

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All soil/sludge samples have been reported on a dry weight basis, unless qualified "reported as received". Other solids are reported as received.

Low level Volatiles blank reports for soil/solid matrix are based on a nominal 5 gram weight. Sample results and reporting limits are based on actual weight, which may be more or less than 5 grams.

The Chain of Custody provides additional information, including compliance with sample condition requirements upon receipt. Sample condition requirements are defined under the 2003 NELAC Standard, sections 5.5.8.3.1 and 5.5.8.3.2.

NYSDOH ELAP does not certify for all parameters. Paradigm Environmental Services or the indicated subcontracted laboratory does hold certification for all analytes where certification is offered by ELAP unless otherwise specified. Aliquots separated for certain tests, such as TCLP, are indicated on the Chain of Custody and final reports with an "A" suffix.

Data qualifiers are used, when necessary, to provide additional information about the data. This information may be communicated as a flag or as text at the bottom of the report. Please refer to the following list of analyte-specific, frequently used data flags and their meaning:

"<" = Analyzed for but not detected at or above the quantitation limit.
"E" = Result has been estimated, calibration limit exceeded.
"Z" = See case narrative.
"D" = Sample, Laboratory Control Sample, or Matrix Spike Duplicate results above Relative Percent Difference limit.
"M" = Matrix spike recoveries outside QC limits. Matrix bias indicated.
"B" = Method blank contained trace levels of analyte. Refer to included method blank report.
"J" = Result estimated between the quantitation limit and half the quantitation limit.
"L" = Laboratory Control Sample recovery outside accepted QC limits.
"P" = Concentration differs by more than 40% between the primary and secondary analytical columns.
"NC" = Not calculable. Applicable to RPD if sample or duplicate result is non-detect or estimated (see primary report for data flags). Applicable to MS if sample is greater or equal to ten times the spike added. Applicable to sample surrogates or MS if sample dilution is 10x or higher.
"" = Indicates any recoveries outside associated acceptance windows. Surrogate outliers in samples are presumed matrix effects. LCS demonstrates method compliance unless otherwise noted.*
"(1)" = Indicates data from primary column used for QC calculation.
"A" = denotes a parameter for which ELAP does not offer approval as part of their laboratory certification program.
"F" = denotes a parameter for which Paradigm does not carry certification, the results for which should therefore only be used where ELAP certification is not required, such as personal exposure assessment.

GENERAL TERMS AND CONDITIONS
LABORATORY SERVICES

These Terms and Conditions embody the whole agreement of the parties in the absence of a signed and executed contract between the Laboratory (LAB) and Client. They shall supersede all previous communications, representations, or agreements, either verbal or written, between the parties. The LAB specifically rejects all additional, inconsistent, or conflicting terms, whether printed or otherwise set forth in any purchase order or other communication from the Client to the LAB. The invalidity or unenforceability in whole or in part of any provision, tern or condition hereof shall not affect in any way the validity or enforceability of the remainder of the Terms and Conditions. No waiver by LAB of any provision, term, or condition hereof or of any breach by or obligation of the Client hereunder shall constitute a waiver of such provision, term, or condition on any other occasion or a waiver of any other breach by or obligation of the Client. This agreement shall be administered and interpreted under the laws of the state which services are procured.

Warranty. Recognizing that the nature of many samples is unknown and that some may contain potentially hazardous components, LAB warrants only that it will perform testing services, obtain findings, and prepare reports in accordance with generally accepted analytical laboratory principles and practices at the time of performance of services. LAB makes no other warranty, express or implied.

Scope and Compensation. LAB agrees to perform the services described in the chain of custody to which these terms and conditions are attached. Unless the parties agree in writing to the contrary, the duties of LAB shall not be construed to exceed the services specifically described. LAB wi use LAB default method for all tests unless specified otherwise on the Work Order.
Payment terms are net 30 days from the date of invoice. All overdue payments are subject to an interest charge of one and one-half percent (1-1/2%) per month or a portion thereof. Client shall also be responsible for costs of collection, including payment of reasonable attorney fees if such expense is incurred. The prices, unless stated, do not include any sale, use or other taxes. Such taxes will be added to invoice prices when required.

Prices. Compensation for services performed will be based on the current Lab Analytical Fee Schedule or on quotations agreed to in writing by the parties. Turnaround time based charges are determined from the time of resolution of all work order questions. Testimony, court appearances or data compilation for legal action will be charged separately. Evaluation and reporting of initial screening runs may incur additional fees.

Limitations of Liability. In the event of any error, omission, or other professional negligence, the sole and exclusive responsibility of LAB shall be to re-perform the deficient work at its own expense and LAB shall have no other liability whatsoever. All claims shall be deemed waived unless made in writing and received by LAB within ninety (90) days following completion of services.
LAB shall have no liability, obligation, or responsibility of any kind for losses, costs, expenses, or other damages (including but not limited to any special, direct, incidental or consequential damages) with respect to LAB's services or results.
All results provided by LAB are strictly for the use of its clients and LAB is in no way responsible for the use of such results by clients or third parties. All reports should be considered in their entirety, and LAB is not responsible for the separation, detachment, or other use of any portion of these reports. Client may not assign the lab report without the written consent of the LAB.
Client covenants and agrees, at its/his/her sole expense, to indemnify, protect, defend, and save harmless the LAB from and against any and all damages, losses, liabilities, obligations, penalties, claims, litigation, demands, defenses, judgments, suits, actions, proceedings, costs, disbursements and/or expenses (including, without limitation attorneys' and experts' fees and disbursements) of any kind whatsoever which may at any time be imposed upon, incurred by or asserted or awarded against client relating to, resulting from or arising out of (a) the breach of this agreement by this client, (b) the negligence of the client in handling, delivering or disclosing any hazardous substance, (c) the violation of the Client of any applicable law, (d) non-compliance by the Client with any environmental permit or (e) a material misrepresentation in disclosing the materials to be tested.

Hazard Disclosure. Client represents and warrants that any sample delivered to LAB will be preceded or accompanied by complete written disclosure of the presence of any hazardous substances known or suspected by Client. Client further warrants that any sample containing any hazardous substance that is to be delivered to LAB will be packaged, labeled, transported, and delivered properly and in accordance with applicable laws.

Sample Handling. Prior to LAB's acceptance of any sample (or after any revocation of acceptance), the entire risk of loss or of damage to such sample remains with Client. Samples are accepted when receipt is acknowledged on chain of custody documentation. In no event will LAB have any responsibility for the action or inaction of any carrier shipping or delivering any sample to or from LAB premises.
Client authorizes LAB to proceed with the analysis of samples as received by the laboratory, recognizing that any samples not in compliance with all current DOH-ELAP-NELAP requirements for containers, preservation or holding time will be noted as such on th final report.
Disposal of hazardous waste samples is the responsibility of the Client. If the Client does not wish such samples returned, LAB may add storage and disposal fees to the final invoice. Maximum storage time for samples is 30 days after completion of analysis unless modified by applicable state or federal laws. Client will be required to give the LAB written instructions concerning disposal of these samples.
LAB reserves the absolute right, exercisable at any time, to refuse to receive delivery of, refuse to accept, or revoke acceptance of any sample, which, in the sole judgment of LAB (a) is of unsuitable volume, (b) may be or become unsuitable for or may pose a risk in handling, transport, or processing for any health, safety, environmental or other reason whether or not due to the presence in the sample of any hazardous substance, and whether or not such presence has been disclosed to LAB by Client or (c) if the condition or sample date make the sample unsuitable for analysis.

Legal Responsibility. LAB is solely responsible for performance of this contract, and no affiliated company, director, officer, employee, or agent shall have any legal responsibility hereunder, whether in contract or tort including negligence.

Assignment. LAB may assign its performance obligations under this contract to other parties, as it deems necessary. LAB shall disclose to Client any assignee (subcontractor) by ELAP ID # on the submitted final report.

Force Majeure. LAB shall have no responsibility or liability to the Client for any failure or delay in performance by LAB, which results in whole or in part from any cause or circumstance beyond the reasonable control of LAB. Such causes and circumstances shall include, but not limited to, acts of God, acts or orders of any government authority, strikes or other labor disputes, natural disasters, accidents, wars, civil disturbances, difficulties or delays in transportation, mail or delivery services, inability to obtain sufficient services or supplies from LAB's usual suppliers, or any other cause beyond LAB's reasonable control.

Law. This contract shall be continued under the laws of the State of New York without regard to its conflicts of laws provision.

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

1 of 2

CHAIN OF CUSTODY

PARADIGM ENVIRONMENTAL SERVICES, INC

REPORT TO:		INVOICE TO:	
CLIENT:	City of Rochester	CLIENT:	Same
ADDRESS:	30 Church Street, Room 300B	ADDRESS:	
CITY:	Rochester STATE: NY ZIP 14614	CITY:	STATE: ZIP:
PHONE:	585-428-7094	PHONE:	
ATTN:	Alexandra Zobel	ATTN:	

LAB PROJECT ID: 216757

Quotation #: PO 21001332

Email: alexandra.zobel@cityofrochester.gov

PROJECT REFERENCE

RFA Quarterly Sampling
PO#21001332

Matrix Codes:
AQ - Aqueous Liquid; NQ - Non-Aqueous Liquid; WA - Water; WG - Groundwater; DW - Drinking Water; WW - Wastewater; SO - Soil; SL - Sludge; SD - Solid; PT - Paint; WP - Wipe; CK - Caulk; OL - Oil; AR - Air

REQUESTED ANALYSIS

DATE COLLECTED	TIME COLLECTED	COMPOSITE	GRAB	SAMPLE IDENTIFIER	MATRIX CODES	NUMBER OF CONTAINERS	624 Site Specific	625 Site Specific	608 Pesticides	Metals*	pH						REMARKS	PARADIGM LAB SAMPLE NUMBER
2/26/2021	1235		X	Effluent	Water	6	X	X	X	X	X						624 Site Specific =VRFA Test Name	01
2/26/2021	1225		X	Influent	Water	3	X		X								625 Site Specific = SMISC	02
																	SVOA List:	
																	Diethyl phthalate	
																	Metals list:	
																	As, Cd, Cr, Cu, Pb, Ni, Se, Zn	
																	10°C 2/26/21 1308	

Turnaround Time		Report Supplements			
Availability contingent upon lab approval; additional fees may apply.					
Standard 5 day	☐	None Required	☐	None Required	☐
10 day	X	Batch QC	☐	Basic EDD	☐
Rush 3 day	☐	Category A	☐	NYSDEC EDD	☐
Rush 2 day	☐	Category B	☐		
Rush 1 day	☐				
Other (please indicate date needed:)	☐	Other (please indicate package needed:)	☐	Other EDD (please indicate EDD needed:)	☐

A. Zobel — Sampled By — 2/26/21 — Date/Time

A. Zobel — Relinquished By — 2/26/21 @ 13P3 — Date/Time

[signature] — Received By — 2/26/2021 1307 — Date/Time — 10°C

Molly Nail — Received @ Lab By — 2/26/21 1308 — Date/Time

Total Cost: ☐

P.I.F. ☐

By signing this form, client agrees to Paradigm Terms and Conditions (reverse).

See additional page for sample conditions.

PARADIGM

Chain of Custody Supplement

Client: City of Roch **Completed by:** MollyVail

Lab Project ID: 210757 **Date:** 2/26/21

Sample Condition Requirements

Per NELAC/ELAP 210/241/242/243/244

Condition	NELAC compliance with the sample condition requirements upon receipt Yes	No	N/A
Container Type	X		
Comments			
Transferred to method-compliant container			X
Headspace (<1 mL)	VOA		X
Comments			
Preservation	VOA, met		SVOA, Peat pH
Comments			
Chlorine Absent (<0.10 ppm per test strip)	SVOA, Pest		X
Comments	VOA: Cl⁻ neg.		
Holding Time	X	pH	
Comments			
Temperature		X	Met pH
Comments	10°C		
Compliant Sample Quantity/Type	X		
Comments			

179 Lake Avenue • Rochester, NY 14608 • (585) 647-2530 • Fax (585) 647-3311 • ELAP ID# 10958

PARADIGM ENVIRONMENTAL SERVICES, INC.

Analytical Report For

City of Rochester

For Lab Project ID

210942

Referencing

RFA Monthly Sampling DEQ-98045

Prepared

Thursday, March 18, 2021

Any noncompliant QC parameters or other notes impacting data interpretation are flagged or documented on the final report or are noted below.

Certifies that this report has been approved by the Technical Director or Designee

179 Lake Avenue • Rochester, NY 14608 • (585) 647-2530 • Fax (585) 647-3311 • ELAP ID# 10958

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 210942

Client: **City of Rochester**

Project Reference: RFA Monthly Sampling DEQ-98045

Sample Identifier:	Effluent		
Lab Sample ID:	210942-01	**Date Sampled:**	3/11/2021
Matrix:	Water	**Date Received:**	3/11/2021

pH

Analyte	Result	Units	Qualifier	Date Analyzed
pH	8.59 @ 21.5 C	S.U.		3/11/2021 14:42

Method Reference(s): SM22 4500 H+ B

ELAP does not offer this test for approval as part of their laboratory certification program.

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed
1,1,1-Trichloroethane	< 2.00	ug/L		3/16/2021 18:58
1,1,2,2-Tetrachloroethane	< 2.00	ug/L		3/16/2021 18:58
1,1,2-Trichloroethane	< 2.00	ug/L		3/16/2021 18:58
1,1-Dichloroethane	< 2.00	ug/L		3/16/2021 18:58
1,1-Dichloroethene	< 2.00	ug/L		3/16/2021 18:58
1,2-Dichlorobenzene	< 2.00	ug/L		3/16/2021 18:58
1,2-Dichloroethane	< 2.00	ug/L		3/16/2021 18:58
1,2-Dichloropropane	< 2.00	ug/L		3/16/2021 18:58
1,3-Dichlorobenzene	< 2.00	ug/L		3/16/2021 18:58
1,4-Dichlorobenzene	< 2.00	ug/L		3/16/2021 18:58
2-Butanone	< 10.0	ug/L		3/16/2021 18:58
2-Chloroethyl vinyl Ether	< 5.00	ug/L		3/16/2021 18:58
4-Methyl-2-pentanone	< 5.00	ug/L		3/16/2021 18:58
Acetone	< 10.0	ug/L		3/16/2021 18:58
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Carbon Tetrachloride	< 2.00	ug/L		3/16/2021 18:58
Chlorobenzene	< 2.00	ug/L		3/16/2021 18:58
Chloroethane	< 2.00	ug/L		3/16/2021 18:58
Chloroform	< 2.00	ug/L		3/16/2021 18:58

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Sample Identifier:	Effluent		
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Chloromethane	< 2.00	ug/L		3/16/2021 18:58
cis-1,3-Dichloropropene	< 2.00	ug/L		3/16/2021 18:58
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Methylene chloride	< 5.00	ug/L		3/16/2021 18:58
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Toluene	< 2.00	ug/L		3/16/2021 18:58
trans-1,2-Dichloroethene	< 2.00	ug/L		3/16/2021 18:58
trans-1,3-Dichloropropene	< 2.00	ug/L		3/16/2021 18:58
Trichloroethene	< 2.00	ug/L		3/16/2021 18:58
Vinyl chloride	< 2.00	ug/L		3/16/2021 18:58

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
1,2-Dichloroethane-d4	**103**	64 - 142		3/16/2021 18:58
4-Bromofluorobenzene	**72.8**	37.2 - 146		3/16/2021 18:58
Pentafluorobenzene	**98.3**	91.4 - 114		3/16/2021 18:58
Toluene-D8	**97.7**	73.1 - 120		3/16/2021 18:58

Method Reference(s): EPA 624.1
Data File: z00238.D

Analytical Report Appendix

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"M" = Matrix spike recoveries outside QC limits. Matrix bias indicated.
"B" = Method blank contained trace levels of analyte. Refer to included method blank report.
"J" = Result estimated between the quantitation limit and half the quantitation limit.
"L" = Laboratory Control Sample recovery outside accepted QC limits.
"P" = Concentration differs by more than 40% between the primary and secondary analytical columns.
"NC" = Not calculable. Applicable to RPD if sample or duplicate result is non-detect or estimated (see primary report for data flags). Applicable to MS if sample is greater or equal to ten times the spike added. Applicable to sample surrogates or MS if sample dilution is 10x or higher.
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LAB shall have no liability, obligation, or responsibility of any kind for losses, costs, expenses, or other damages (including but not limited to any special, direct, incidental or consequential damages) with respect to LAB's services or results.
All results provided by LAB are strictly for the use of its clients and LAB is in no way responsible for the use of such results by clients or third parties. All reports should be considered in their entirety, and LAB is not responsible for the separation, detachment, or other use of any portion of these reports. Client may not assign the lab report without the written consent of the LAB.
Client covenants and agrees, at its/his/her sole expense, to indemnify, protect, defend, and save harmless the LAB from and against any and all damages, losses, liabilities, obligations, penalties, claims, litigation, demands, defenses, judgments, suits, actions, proceedings, costs, disbursements and/or expenses (including, without limitation attorneys' and experts' fees and disbursements) of any kind whatsoever which may at any time be imposed upon, incurred by or asserted or awarded against client relating to, resulting from or arising out of (a) the breach of this agreement by this client, (b) the negligence of the client in handling, delivering or disclosing any hazardous substance, (c) the violation of the Client of any applicable law, (d) non-compliance by the Client with any environmental permit or (e) a material misrepresentation in disclosing the materials to be tested.

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LAB reserves the absolute right, exercisable at any time, to refuse to receive delivery of, refuse to accept, or revoke acceptance of any sample, which, in the sole judgment of LAB (a) is of unsuitable volume, (b) may be or become unsuitable for or may pose a risk in handling, transport, or processing for any health, safety, environmental or other reason whether or not due to the presence in the sample of any hazardous substance, and whether or not such presence has been disclosed to LAB by Client or (c) if the condition or sample date make the sample unsuitable for analysis.

Legal Responsibility. LAB is solely responsible for performance of this contract, and no affiliated company, director, officer, employee, or agent shall have any legal responsibility hereunder, whether in contract or tort including negligence.

Assignment. LAB may assign its performance obligations under this contract to other parties, as it deems necessary. LAB shall disclose to Client any assignee (subcontractor) by ELAP ID # on the submitted final report.

Force Majeure. LAB shall have no responsibility or liability to the Client for any failure or delay in performance by LAB, which results in whole or in part from any cause or circumstance beyond the reasonable control of LAB. Such causes and circumstances shall include, but not limited to, acts of God, acts or orders of any government authority, strikes or other labor disputes, natural disasters, accidents, wars, civil disturbances, difficulties or delays in transportation, mail or delivery services, inability to obtain sufficient services or supplies from LAB's usual suppliers, or any other cause beyond LAB's reasonable control.

Law. This contract shall be continued under the laws of the State of New York without regard to its conflicts of laws provision.

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

CHAIN OF CUSTODY

PARADIGM ENVIRONMENTAL SERVICES, INC.

REPORT TO:		INVOICE TO:		LAB PROJECT ID
CLIENT:	City of Rochester	CLIENT:	Same	210942
ADDRESS:	30 Church Street, Room 300B	ADDRESS:		Quotation #:
CITY:	Rochester STATE: NY ZIP: 14614	CITY:	STATE: ZIP:	Email: alexandra.zobel@cityofrochester.gov
PHONE:		PHONE:		
ATTN:	Alexandra Zobel	ATTN:	cc: Dennis.Peckat@cityofrochester.gov	

PROJECT REFERENCE

RFA Monthly Sampling DEQ-98045
PO#21001332

Matrix Codes:

AQ - Aqueous Liquid; NQ - Non-Aqueous Liquid; WA - Water; WG - Groundwater; DW - Drinking Water; WW - Wastewater; SO - Soil; SL - Sludge; SD - Solid; PT - Paint; WP - Wipe; CK - Caulk; OL - Oil; AR - Air

REQUESTED ANALYSIS

DATE COLLECTED	TIME COLLECTED	COMPOSITE	GRAB	SAMPLE IDENTIFIER	MATRIX CODES	NUMBER OF CONTAINERS	624 Site Specific	pH								REMARKS	PARADIGM LAB SAMPLE NUMBER
3/11/2021	1323		X	Effluent	Water	3	X	X								624 Site Specific =VRFA Test Name	01
																18°C 3/11/21 1358	

Turnaround Time		Report Supplements			
Availability contingent upon lab approval; additional fees may apply.					
Standard 5 day	☐	None Required	☐	None Required	☐
10 day	☒	Batch QC	☐	Basic EDD	☐
Rush 3 day	☐	Category A	☐	NYSDEC EDD	☐
Rush 2 day	☐	Category B	☐		
Rush 1 day	☐				
Other please indicate date needed:	☐	Other please indicate package needed:	☐	Other EDD please indicate EDD needed :	☐

Alexandra Zobel 3/11/21 @ 1323
Sampled By Date/Time

A. Zobel 3/11/21 @ 1353
Relinquished By Date/Time

Emily Farmen 3/11/21 1359
Received By Date/Time

Molly Vail 3/11/21 1412
Received @ Lab By Date/Time

Total Cost:

P.I.F.

By signing this form, client agrees to Paradigm Terms and Conditions (reverse).

See additional page for sample conditions.

2062

PARADIGM

Chain of Custody Supplement

Client: City of Rochester **Completed by:** MollyGail

Lab Project ID: 210942 **Date:** 3/11/21

Sample Condition Requirements

Per NELAC/ELAP 210/241/242/243/244

Condition	NELAC compliance with the sample condition requirements upon receipt: Yes	No	N/A
Container Type	X		
Comments			
Transferred to method-compliant container			X
Headspace (<1 mL)	VOA		pH
Comments			
Preservation	VOA		pH
Comments			
Chlorine Absent (<0.10 ppm per test strip)	X		pH
Comments	VOA : Cl Neg.		
Holding Time	X	pH	
Comments			
Temperature		X	pH
Comments	18°C		
Compliant Sample Quantity/Type	X		
Comments			

PARADIGM

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Analytical Report For

City of Rochester

For Lab Project ID

211547

Referencing

RFA Monthly Sampling DEQ-98045

Prepared

Wednesday, April 21, 2021

Any noncompliant QC parameters or other notes impacting data interpretation are flagged or documented on the final report or are noted below.

Certifies that this report has been approved by the Technical Director or Designee

179 Lake Avenue • Rochester, NY 14608 • (585) 647-2530 • Fax (585) 647-3311 • ELAP ID# 10958

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 211547

Client: **City of Rochester**

Project Reference: RFA Monthly Sampling DEQ-98045

Sample Identifier:	Effluent		
Lab Sample ID:	211547-01	**Date Sampled:**	4/15/2021
Matrix:	Water	**Date Received:**	4/15/2021

pH

Analyte	Result	Units	Qualifier	Date Analyzed
pH	8.29 @ 22.8 C	S.U.		4/15/2021 14:36

Method Reference(s): SM22 4500 H+ B

ELAP does not offer this test for approval as part of their laboratory certification program.

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed
1,1,1-Trichloroethane	< 2.00	ug/L		4/16/2021 14:14
1,1,2,2-Tetrachloroethane	< 2.00	ug/L		4/16/2021 14:14
1,1,2-Trichloroethane	< 2.00	ug/L		4/16/2021 14:14
1,1-Dichloroethane	**2.83**	ug/L		4/16/2021 14:14
1,1-Dichloroethene	< 2.00	ug/L		4/16/2021 14:14
1,2-Dichlorobenzene	< 2.00	ug/L		4/16/2021 14:14
1,2-Dichloroethane	< 2.00	ug/L		4/16/2021 14:14
1,2-Dichloropropane	< 2.00	ug/L		4/16/2021 14:14
1,3-Dichlorobenzene	< 2.00	ug/L		4/16/2021 14:14
1,4-Dichlorobenzene	< 2.00	ug/L		4/16/2021 14:14
2-Butanone	< 10.0	ug/L		4/16/2021 14:14
2-Chloroethyl vinyl Ether	< 5.00	ug/L		4/16/2021 14:14
4-Methyl-2-pentanone	< 5.00	ug/L		4/16/2021 14:14
Acetone	< 10.0	ug/L		4/16/2021 14:14
Benzene	< 1.00	ug/L		4/16/2021 14:14
Bromodichloromethane	< 2.00	ug/L		4/16/2021 14:14
Bromoform	< 5.00	ug/L		4/16/2021 14:14
Bromomethane	< 2.00	ug/L		4/16/2021 14:14
Carbon Tetrachloride	< 2.00	ug/L		4/16/2021 14:14
Chlorobenzene	< 2.00	ug/L		4/16/2021 14:14
Chloroethane	< 2.00	ug/L		4/16/2021 14:14
Chloroform	< 2.00	ug/L		4/16/2021 14:14

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 211547

Client: **City of Rochester**

Project Reference: RFA Monthly Sampling DEQ-98045

Sample Identifier:	Effluent		
Lab Sample ID:	211547-01	**Date Sampled:**	4/15/2021
Matrix:	Water	**Date Received:**	4/15/2021

Chloromethane	< 2.00	ug/L		4/16/2021 14:14
cis-1,3-Dichloropropene	< 2.00	ug/L		4/16/2021 14:14
Dibromochloromethane	< 2.00	ug/L		4/16/2021 14:14
Ethylbenzene	< 2.00	ug/L		4/16/2021 14:14
Methylene chloride	< 5.00	ug/L		4/16/2021 14:14
Tetrachloroethene	< 2.00	ug/L		4/16/2021 14:14
Toluene	< 2.00	ug/L		4/16/2021 14:14
trans-1,2-Dichloroethene	< 2.00	ug/L		4/16/2021 14:14
trans-1,3-Dichloropropene	< 2.00	ug/L		4/16/2021 14:14
Trichloroethene	< 2.00	ug/L		4/16/2021 14:14
Vinyl chloride	< 2.00	ug/L		4/16/2021 14:14

Surrogate	**Percent Recovery**	**Limits**	**Outliers**	**Date Analyzed**
1,2-Dichloroethane-d4	**109**	64 - 142		4/16/2021 14:14
4-Bromofluorobenzene	**85.7**	37.2 - 146		4/16/2021 14:14
Pentafluorobenzene	**103**	91.4 - 114		4/16/2021 14:14
Toluene-D8	**100**	73.1 - 120		4/16/2021 14:14

Method Reference(s): EPA 624.1
Data File: z00889.D

Analytical Report Appendix

The reported results relate only to the samples as they have been received by the laboratory.

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All soil/sludge samples have been reported on a dry weight basis, unless qualified "reported as received". Other solids are reported as received.

Low level Volatiles blank reports for soil/solid matrix are based on a nominal 5 gram weight. Sample results and reporting limits are based on actual weight, which may be more or less than 5 grams.

The Chain of Custody provides additional information, including compliance with sample condition requirements upon receipt. Sample condition requirements are defined under the 2003 NELAC Standard, sections 5.5.8.3.1 and 5.5.8.3.2.

NYSDOH ELAP does not certify for all parameters. Paradigm Environmental Services or the indicated subcontracted laboratory does hold certification for all analytes where certification is offered by ELAP unless otherwise specified. Aliquots separated for certain tests, such as TCLP, are indicated on the Chain of Custody and final reports with an "A" suffix.

Data qualifiers are used, when necessary, to provide additional information about the data. This information may be communicated as a flag or as text at the bottom of the report. Please refer to the following list of analyte-specific, frequently used data flags and their meaning:

"<" = Analyzed for but not detected at or above the quantitation limit.
"E" = Result has been estimated, calibration limit exceeded.
"Z" = See case narrative.
"D" = Sample, Laboratory Control Sample, or Matrix Spike Duplicate results above Relative Percent Difference limit.
"M" = Matrix spike recoveries outside QC limits. Matrix bias indicated.
"B" = Method blank contained trace levels of analyte. Refer to included method blank report.
"J" = Result estimated between the quantitation limit and half the quantitation limit.
"L" = Laboratory Control Sample recovery outside accepted QC limits.
"P" = Concentration differs by more than 40% between the primary and secondary analytical columns.
"NC" = Not calculable. Applicable to RPD if sample or duplicate result is non-detect or estimated (see primary report for data flags). Applicable to MS if sample is greater or equal to ten times the spike added. Applicable to sample surrogates or MS if sample dilution is 10x or higher.
"" = Indicates any recoveries outside associated acceptance windows. Surrogate outliers in samples are presumed matrix effects. LCS demonstrates method compliance unless otherwise noted.*
"(1)" = Indicates data from primary column used for QC calculation.
"A" = denotes a parameter for which ELAP does not offer approval as part of their laboratory certification program.
"F" = denotes a parameter for which Paradigm does not carry certification, the results for which should therefore only be used where ELAP certification is not required, such as personal exposure assessment.

GENERAL TERMS AND CONDITIONS
LABORATORY SERVICES

These Terms and Conditions embody the whole agreement of the parties in the absence of a signed and executed contract between the Laboratory (LAB) and Client. They shall supersede all previous communications, representations, or agreements, either verbal or written, between the parties. The LAB specifically rejects all additional, inconsistent, or conflicting terms, whether printed or otherwise set forth in any purchase order or other communication from the Client to the LAB. The invalidity or unenforceability in whole or in part of any provision, tern or condition hereof shall not affect in any way the validity or enforceability of the remainder of the Terms and Conditions. No waiver by LAB of any provision, term, or condition hereof or of any breach by or obligation of the Client hereunder shall constitute a waiver of such provision, term, or condition on any other occasion or a waiver of any other breach by or obligation of the Client. This agreement shall be administered and interpreted under the laws of the state which services are procured.

Warranty. Recognizing that the nature of many samples is unknown and that some may contain potentially hazardous components, LAB warrants only that it will perform testing services, obtain findings, and prepare reports in accordance with generally accepted analytical laboratory principles and practices at the time of performance of services. LAB makes no other warranty, express or implied.

Scope and Compensation. LAB agrees to perform the services described in the chain of custody to which these terms and conditions are attached. Unless the parties agree in writing to the contrary, the duties of LAB shall not be construed to exceed the services specifically described. LAB wi use LAB default method for all tests unless specified otherwise on the Work Order.
Payment terms are net 30 days from the date of invoice. All overdue payments are subject to an interest charge of one and one-half percent (1-1/2%) per month or a portion thereof. Client shall also be responsible for costs of collection, including payment of reasonable attorney fees if such expense is incurred. The prices, unless stated, do not include any sale, use or other taxes. Such taxes will be added to invoice prices when required.

Prices. Compensation for services performed will be based on the current Lab Analytical Fee Schedule or on quotations agreed to in writing by the parties. Turnaround time based charges are determined from the time of resolution of all work order questions. Testimony, court appearances or data compilation for legal action will be charged separately. Evaluation and reporting of initial screening runs may incur additional fees.

Limitations of Liability. In the event of any error, omission, or other professional negligence, the sole and exclusive responsibility of LAB shall be to re-perform the deficient work at its own expense and LAB shall have no other liability whatsoever. All claims shall be deemed waived unless made in writing and received by LAB within ninety (90) days following completion of services.
LAB shall have no liability, obligation, or responsibility of any kind for losses, costs, expenses, or other damages (including but not limited to any special, direct, incidental or consequential damages) with respect to LAB's services or results.
All results provided by LAB are strictly for the use of its clients and LAB is in no way responsible for the use of such results by clients or third parties. All reports should be considered in their entirety, and LAB is not responsible for the separation, detachment, or other use of any portion of these reports. Client may not assign the lab report without the written consent of the LAB.
Client covenants and agrees, at its/his/her sole expense, to indemnify, protect, defend, and save harmless the LAB from and against any and all damages, losses, liabilities, obligations, penalties, claims, litigation, demands, defenses, judgments, suits, actions, proceedings, costs, disbursements and/or expenses (including, without limitation attorneys' and experts' fees and disbursements) of any kind whatsoever which may at any time be imposed upon, incurred by or asserted or awarded against client relating to, resulting from or arising out of (a) the breach of this agreement by this client, (b) the negligence of the client in handling, delivering or disclosing any hazardous substance, (c) the violation of the Client of any applicable law, (d) non-compliance by the Client with any environmental permit or (e) a material misrepresentation in disclosing the materials to be tested.

Hazard Disclosure. Client represents and warrants that any sample delivered to LAB will be preceded or accompanied by complete written disclosure of the presence of any hazardous substances known or suspected by Client. Client further warrants that any sample containing any hazardous substance that is to be delivered to LAB will be packaged, labeled, transported, and delivered properly and in accordance with applicable laws.

Sample Handling. Prior to LAB's acceptance of any sample (or after any revocation of acceptance), the entire risk of loss or of damage to such sample remains with Client. Samples are accepted when receipt is acknowledged on chain of custody documentation. In no event will LAB have any responsibility for the action or inaction of any carrier shipping or delivering any sample to or from LAB premises.
Client authorizes LAB to proceed with the analysis of samples as received by the laboratory, recognizing that any samples not in compliance with all current DOH-ELAP-NELAP requirements for containers, preservation or holding time will be noted as such on th final report.
Disposal of hazardous waste samples is the responsibility of the Client. If the Client does not wish such samples returned, LAB may add storage and disposal fees to the final invoice. Maximum storage time for samples is 30 days after completion of analysis unless modified by applicable state or federal laws. Client will be required to give the LAB written instructions concerning disposal of these samples.
LAB reserves the absolute right, exercisable at any time, to refuse to receive delivery of, refuse to accept, or revoke acceptance of any sample, which, in the sole judgment of LAB (a) is of unsuitable volume, (b) may be or become unsuitable for or may pose a risk in handling, transport, or processing for any health, safety, environmental or other reason whether or not due to the presence in the sample of any hazardous substance, and whether or not such presence has been disclosed to LAB by Client or (c) if the condition or sample date make the sample unsuitable for analysis.

Legal Responsibility. LAB is solely responsible for performance of this contract, and no affiliated company, director, officer, employee, or agent shall have any legal responsibility hereunder, whether in contract or tort including negligence.

Assignment. LAB may assign its performance obligations under this contract to other parties, as it deems necessary. LAB shall disclose to Client any assignee (subcontractor) by ELAP ID # on the submitted final report.

Force Majeure. LAB shall have no responsibility or liability to the Client for any failure or delay in performance by LAB, which results in whole or in part from any cause or circumstance beyond the reasonable control of LAB. Such causes and circumstances shall include, but not limited to, acts of God, acts or orders of any government authority, strikes or other labor disputes, natural disasters, accidents, wars, civil disturbances, difficulties or delays in transportation, mail or delivery services, inability to obtain sufficient services or supplies from LAB's usual suppliers, or any other cause beyond LAB's reasonable control.

Law. This contract shall be continued under the laws of the State of New York without regard to its conflicts of laws provision.

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

CHAIN OF CUSTODY

PARADIGM ENVIRONMENTAL SERVICES, INC.

REPORT TO:		INVOICE TO:		
CLIENT:	City of Rochester	CLIENT:	Same	LAB PROJECT ID: 211547
ADDRESS:	30 Church Street, Room 300B	ADDRESS:		
CITY:	Rochester STATE: NY ZIP: 14614	CITY:	STATE: ZIP:	Quotation #:
PHONE:		PHONE:		Email: alexandra.zobel@cityofrochester.gov Cc: Dennis.Peck@cityofrochester.gov
ATTN:	Alexandra Zobel	ATTN:		

PROJECT REFERENCE

RFA Monthly Sampling DEQ-98045
PO#21001332

Matrix Codes:
AQ - Aqueous Liquid; NQ - Non-Aqueous Liquid; WA - Water; WG - Groundwater; DW - Drinking Water; WW - Wastewater; SO - Soil; SL - Sludge; SD - Solid; PT - Paint; WP - Wipe; CK - Caulk; OL - Oil; AR - Air

REQUESTED ANALYSIS

DATE COLLECTED	TIME COLLECTED	COMPOSITE	GRAB	SAMPLE IDENTIFIER	MATRIX CODES	NUMBER OF CONTAINERS	624 Site Specific	pH									REMARKS	PARADIGM LAB SAMPLE NUMBER
4/15/2021	10 40		x	Effluent	Water	3	X	X									624 Site Specific =VRFA Test Name	01

Turnaround Time		Report Supplements			
Availability contingent upon lab approval; additional fees may apply.					
Standard 5 day	X	None Required		None Required	
10 day		Batch QC		Basic EDD	
Rush 3 day		Category A		NYSDEC EDD	
Rush 2 day		Category B			
Rush 1 day					
Other		Other		Other EDD	
please indicate date needed:		please indicate package needed:		please indicate EDD needed :	

A. Zobel	4/15/2021 @ 10:40	Total Cost:
Sampled By	Date/Time	
A. Zobel	4/15/2021 @ 11:26	
Relinquished By	Date/Time	
[signature]	4/15/21 11:26	P.I.F.
Received By	Date/Time	
[signature]	4/15/21 11:30	
Received @ Lab By	Date/Time	

10°C 4/15/21 11:30

By signing this form, client agrees to Paradigm Terms and Conditions (reverse).

See additional page for sample conditions.

PARADIGM

Chain of Custody Supplement

Client: City of Rochester **Completed by:** Glenn Pezzulo

Lab Project ID: 211547 **Date:** 4/15/21

Sample Condition Requirements

Per NELAC/ELAP 210/241/242/243/244

Condition	*NELAC compliance with the sample condition requirements upon receipt* Yes	No	N/A
Container Type	X		
Comments			
Transferred to method-compliant container			X
Headspace (<1 mL)	X VOA		X
Comments			
Preservation	X VOA		X
Comments			
Chlorine Absent (<0.10 ppm per test strip)	X		X
Comments	VOA 624: C/T neg.		
Holding Time	X	X pH	
Comments			
Temperature		X	X pH
Comments	10 °C		
Compliant Sample Quantity/Type	X		
Comments			

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PARADIGM

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Analytical Report For

City of Rochester

For Lab Project ID

212327

Referencing

RFA Quarterly Sampling

Prepared

Monday, June 14, 2021

Any noncompliant QC parameters or other notes impacting data interpretation are flagged or documented on the final report or are noted below.

Certifies that this report has been approved by the Technical Director or Designee

179 Lake Avenue • Rochester, NY 14608 • (585) 647-2530 • Fax (585) 647-3311 • ELAP ID# 10958

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 212327

Client: **City of Rochester**

Project Reference: RFA Quarterly Sampling

Sample Identifier:	Effluent		
Lab Sample ID:	212327-01	**Date Sampled:**	5/27/2021
Matrix:	Water	**Date Received:**	5/27/2021

Metals

Analyte	Result	Units	Qualifier	Date Analyzed
Arsenic	< 0.00500	mg/L		6/2/2021 15:30
Cadmium	< 0.00250	mg/L		6/2/2021 15:30
Chromium	< 0.00500	mg/L		6/2/2021 15:30
Copper	< 0.0100	mg/L		6/2/2021 15:30
Lead	< 0.00500	mg/L		6/2/2021 15:30
Nickel	< 0.0200	mg/L		6/2/2021 15:30
Selenium	< 0.0100	mg/L		6/2/2021 15:30
Zinc	< 0.0300	mg/L		6/2/2021 15:30

Method Reference(s): EPA 200.7 Rev 4.4 (1994)
Preparation Date: 6/1/2021
Data File: 210602C

Chlorinated Pesticides

Analyte	Result	Units	Qualifier	Date Analyzed
4,4-DDD	< 0.204	ug/L		6/1/2021 16:44
4,4-DDE	< 0.204	ug/L		6/1/2021 16:44
4,4-DDT	< 0.306	ug/L		6/1/2021 16:44
Aldrin	< 0.204	ug/L		6/1/2021 16:44
alpha-BHC	< 0.204	ug/L		6/1/2021 16:44
beta-BHC	< 0.204	ug/L		6/1/2021 16:44
cis-Chlordane	< 0.204	ug/L		6/1/2021 16:44
delta-BHC	< 0.204	ug/L		6/1/2021 16:44
Dieldrin	< 0.204	ug/L		6/1/2021 16:44
Endosulfan I	< 0.204	ug/L		6/1/2021 16:44
Endosulfan II	< 0.204	ug/L		6/1/2021 16:44
Endosulfan Sulfate	< 0.204	ug/L		6/1/2021 16:44
Endrin	< 0.204	ug/L		6/1/2021 16:44
Endrin Aldehyde	< 0.306	ug/L		6/1/2021 16:44

Lab Project ID: 212327

Client: **City of Rochester**

Project Reference: RFA Quarterly Sampling

Sample Identifier: Effluent
Lab Sample ID: 212327-01 **Date Sampled:** 5/27/2021
Matrix: Water **Date Received:** 5/27/2021

gamma-BHC (Lindane)	< 0.204	ug/L		6/1/2021 16:44
Heptachlor	< 0.204	ug/L		6/1/2021 16:44
Heptachlor Epoxide	< 0.204	ug/L		6/1/2021 16:44
Methoxychlor	< 0.204	ug/L		6/1/2021 16:44
Toxaphene	< 2.04	ug/L		6/1/2021 16:44
trans-Chlordane	< 0.204	ug/L		6/1/2021 16:44

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
Decachlorobiphenyl (1)	**50.9**	10 - 185		6/1/2021 16:44
Tetrachloro-m-xylene (1)	**102**	20.4 - 124		6/1/2021 16:44

Method Reference(s): EPA 608.3
Preparation Date: 5/28/2021

pH

Analyte	Result	Units	Qualifier	Date Analyzed
pH	8.12 @ 25.8 C	S.U.		5/28/2021 12:16

Method Reference(s): SM22 4500 H+ B
ELAP does not offer this test for approval as part of their laboratory certification program.

Semi-Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed
Diethyl phthalate	< 10.0	ug/L		5/28/2021 18:21

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
2-Fluorobiphenyl	**60.7**	38.9 - 93.8		5/28/2021 18:21
Nitrobenzene-d5	**66.9**	43.1 - 104		5/28/2021 18:21
Terphenyl-d14	**75.8**	51.8 - 109		5/28/2021 18:21

Method Reference(s): EPA 625.1
EPA 3510C
Preparation Date: 5/28/2021
Data File: B54561.D

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed
1,1,1-Trichloroethane	**8.10**	ug/L		6/7/2021 16:22

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 212327

Client: **City of Rochester**

Project Reference: RFA Quarterly Sampling

Sample Identifier:	Effluent		
Lab Sample ID:	212327-01	**Date Sampled:**	5/27/2021
Matrix:	Water	**Date Received:**	5/27/2021

1,1,2,2-Tetrachloroethane	< 2.00	ug/L	6/7/2021 16:22
1,1,2-Trichloroethane	< 2.00	ug/L	6/7/2021 16:22
1,1-Dichloroethane	**51.4**	ug/L	6/7/2021 16:22
1,1-Dichloroethene	< 2.00	ug/L	6/7/2021 16:22
1,2-Dichlorobenzene	< 2.00	ug/L	6/7/2021 16:22
1,2-Dichloroethane	< 2.00	ug/L	6/7/2021 16:22
1,2-Dichloropropane	< 2.00	ug/L	6/7/2021 16:22
1,3-Dichlorobenzene	< 2.00	ug/L	6/7/2021 16:22
1,4-Dichlorobenzene	< 2.00	ug/L	6/7/2021 16:22
2-Butanone	**18.9**	ug/L	6/7/2021 16:22
2-Chloroethyl vinyl Ether	< 5.00	ug/L	6/7/2021 16:22
4-Methyl-2-pentanone	< 5.00	ug/L	6/7/2021 16:22
Acetone	< 10.0	ug/L	6/7/2021 16:22
Benzene	< 1.00	ug/L	6/7/2021 16:22
Bromodichloromethane	< 2.00	ug/L	6/7/2021 16:22
Bromoform	< 5.00	ug/L	6/7/2021 16:22
Bromomethane	< 2.00	ug/L	6/7/2021 16:22
Carbon Tetrachloride	< 2.00	ug/L	6/7/2021 16:22
Chlorobenzene	< 2.00	ug/L	6/7/2021 16:22
Chloroethane	**2.12**	ug/L	6/7/2021 16:22
Chloroform	< 2.00	ug/L	6/7/2021 16:22
Chloromethane	< 2.00	ug/L	6/7/2021 16:22
cis-1,3-Dichloropropene	< 2.00	ug/L	6/7/2021 16:22
Dibromochloromethane	< 2.00	ug/L	6/7/2021 16:22
Ethylbenzene	< 2.00	ug/L	6/7/2021 16:22
Methylene chloride	< 5.00	ug/L	6/7/2021 16:22
Tetrachloroethene	< 2.00	ug/L	6/7/2021 16:22
Toluene	< 2.00	ug/L	6/7/2021 16:22
trans-1,2-Dichloroethene	< 2.00	ug/L	6/7/2021 16:22
trans-1,3-Dichloropropene	< 2.00	ug/L	6/7/2021 16:22

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 212327

Client: **City of Rochester**

Project Reference: RFA Quarterly Sampling

Sample Identifier:	Effluent		
Lab Sample ID:	212327-01	**Date Sampled:**	5/27/2021
Matrix:	Water	**Date Received:**	5/27/2021

Trichloroethene	< 2.00	ug/L			6/7/2021 16:22
Vinyl chloride	**3.07**	ug/L			6/7/2021 16:22

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
1,2-Dichloroethane-d4	**106**	64 - 142		6/7/2021 16:22
4-Bromofluorobenzene	**115**	37.2 - 146		6/7/2021 16:22
Pentafluorobenzene	**99.9**	91.4 - 114		6/7/2021 16:22
Toluene-D8	**112**	73.1 - 120		6/7/2021 16:22

Method Reference(s): EPA 624.1
Data File: z02145.D

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 212327

Client: **City of Rochester**

Project Reference: RFA Quarterly Sampling

Sample Identifier:	Influent		
Lab Sample ID:	212327-02	**Date Sampled:**	5/27/2021
Matrix:	Water	**Date Received:**	5/27/2021

Chlorinated Pesticides

Analyte	Result	Units	Qualifier	Date Analyzed
4,4-DDD	< 0.201	ug/L		6/1/2021 17:00
4,4-DDE	< 0.201	ug/L		6/1/2021 17:00
4,4-DDT	< 0.301	ug/L		6/1/2021 17:00
Aldrin	< 0.201	ug/L		6/1/2021 17:00
alpha-BHC	< 0.201	ug/L		6/1/2021 17:00
beta-BHC	< 0.201	ug/L		6/1/2021 17:00
cis-Chlordane	< 0.201	ug/L		6/1/2021 17:00
delta-BHC	< 0.201	ug/L		6/1/2021 17:00
Dieldrin	< 0.201	ug/L		6/1/2021 17:00
Endosulfan I	< 0.201	ug/L		6/1/2021 17:00
Endosulfan II	< 0.201	ug/L		6/1/2021 17:00
Endosulfan Sulfate	< 0.201	ug/L		6/1/2021 17:00
Endrin	< 0.201	ug/L		6/1/2021 17:00
Endrin Aldehyde	< 0.301	ug/L		6/1/2021 17:00
gamma-BHC (Lindane)	< 0.201	ug/L		6/1/2021 17:00
Heptachlor	< 0.201	ug/L		6/1/2021 17:00
Heptachlor Epoxide	< 0.201	ug/L		6/1/2021 17:00
Methoxychlor	< 0.201	ug/L		6/1/2021 17:00
Toxaphene	< 2.01	ug/L		6/1/2021 17:00
trans-Chlordane	< 0.201	ug/L		6/1/2021 17:00

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
Decachlorobiphenyl (1)	**94.7**	10 - 185		6/1/2021 17:00
Tetrachloro-m-xylene (1)	**112**	20.4 - 124		6/1/2021 17:00

Method Reference(s): EPA 608.3
Preparation Date: 5/28/2021

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 212327

Client: **City of Rochester**

Project Reference: RFA Quarterly Sampling

Sample Identifier:	Influent		
Lab Sample ID:	212327-02	**Date Sampled:**	5/27/2021
Matrix:	Water	**Date Received:**	5/27/2021

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed
1,1,1-Trichloroethane	**1230**	ug/L		6/7/2021 16:43
1,1,2,2-Tetrachloroethane	< 200	ug/L		6/7/2021 16:43
1,1,2-Trichloroethane	< 200	ug/L		6/7/2021 16:43
1,1-Dichloroethane	**6140**	ug/L		6/7/2021 16:43
1,1-Dichloroethene	< 200	ug/L		6/7/2021 16:43
1,2-Dichlorobenzene	< 200	ug/L		6/7/2021 16:43
1,2-Dichloroethane	< 200	ug/L		6/7/2021 16:43
1,2-Dichloropropane	< 200	ug/L		6/7/2021 16:43
1,3-Dichlorobenzene	< 200	ug/L		6/7/2021 16:43
1,4-Dichlorobenzene	< 200	ug/L		6/7/2021 16:43
2-Butanone	< 1000	ug/L		6/7/2021 16:43
2-Chloroethyl vinyl Ether	< 500	ug/L		6/7/2021 16:43
4-Methyl-2-pentanone	< 500	ug/L		6/7/2021 16:43
Acetone	< 1000	ug/L		6/7/2021 16:43
Benzene	< 100	ug/L		6/7/2021 16:43
Bromodichloromethane	< 200	ug/L		6/7/2021 16:43
Bromoform	< 500	ug/L		6/7/2021 16:43
Bromomethane	< 200	ug/L		6/7/2021 16:43
Carbon Tetrachloride	< 200	ug/L		6/7/2021 16:43
Chlorobenzene	< 200	ug/L		6/7/2021 16:43
Chloroethane	**341**	ug/L		6/7/2021 16:43
Chloroform	< 200	ug/L		6/7/2021 16:43
Chloromethane	< 200	ug/L		6/7/2021 16:43
cis-1,3-Dichloropropene	< 200	ug/L		6/7/2021 16:43
Dibromochloromethane	< 200	ug/L		6/7/2021 16:43
Ethylbenzene	< 200	ug/L		6/7/2021 16:43
Methylene chloride	< 500	ug/L		6/7/2021 16:43
Tetrachloroethene	< 200	ug/L		6/7/2021 16:43

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 212327

Client: **City of Rochester**

Project Reference: RFA Quarterly Sampling

Sample Identifier:	Influent		
Lab Sample ID:	212327-02	**Date Sampled:**	5/27/2021
Matrix:	Water	**Date Received:**	5/27/2021

Toluene	< 200	ug/L		6/7/2021 16:43
trans-1,2-Dichloroethene	< 200	ug/L		6/7/2021 16:43
trans-1,3-Dichloropropene	< 200	ug/L		6/7/2021 16:43
Trichloroethene	< 200	ug/L		6/7/2021 16:43
Vinyl chloride	**1070**	ug/L		6/7/2021 16:43

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
1,2-Dichloroethane-d4	**104**	64 - 142		6/7/2021 16:43
4-Bromofluorobenzene	**96.9**	37.2 - 146		6/7/2021 16:43
Pentafluorobenzene	**97.5**	91.4 - 114		6/7/2021 16:43
Toluene-D8	**96.6**	73.1 - 120		6/7/2021 16:43

Method Reference(s): EPA 624.1
Data File: z02146.D

Analytical Report Appendix

The reported results relate only to the samples as they have been received by the laboratory.

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All soil/sludge samples have been reported on a dry weight basis, unless qualified "reported as received". Other solids are reported as received.

Low level Volatiles blank reports for soil/solid matrix are based on a nominal 5 gram weight. Sample results and reporting limits are based on actual weight, which may be more or less than 5 grams.

The Chain of Custody provides additional information, including compliance with sample condition requirements upon receipt. Sample condition requirements are defined under the 2003 NELAC Standard, sections 5.5.8.3.1 and 5.5.8.3.2.

NYSDOH ELAP does not certify for all parameters. Paradigm Environmental Services or the indicated subcontracted laboratory does hold certification for all analytes where certification is offered by ELAP unless otherwise specified. Aliquots separated for certain tests, such as TCLP, are indicated on the Chain of Custody and final reports with an "A" suffix.

Data qualifiers are used, when necessary, to provide additional information about the data. This information may be communicated as a flag or as text at the bottom of the report. Please refer to the following list of analyte-specific, frequently used data flags and their meaning:

"<" = Analyzed for but not detected at or above the quantitation limit.
"E" = Result has been estimated, calibration limit exceeded.
"Z" = See case narrative.
"D" = Sample, Laboratory Control Sample, or Matrix Spike Duplicate results above Relative Percent Difference limit.
"M" = Matrix spike recoveries outside QC limits. Matrix bias indicated.
"B" = Method blank contained trace levels of analyte. Refer to included method blank report.
"J" = Result estimated between the quantitation limit and half the quantitation limit.
"L" = Laboratory Control Sample recovery outside accepted QC limits.
"P" = Concentration differs by more than 40% between the primary and secondary analytical columns.
"NC" = Not calculable. Applicable to RPD if sample or duplicate result is non-detect or estimated (see primary report for data flags). Applicable to MS if sample is greater or equal to ten times the spike added. Applicable to sample surrogates or MS if sample dilution is 10x or higher.
"" = Indicates any recoveries outside associated acceptance windows. Surrogate outliers in samples are presumed matrix effects. LCS demonstrates method compliance unless otherwise noted.*
"(1)" = Indicates data from primary column used for QC calculation.
"A" = denotes a parameter for which ELAP does not offer approval as part of their laboratory certification program.
"F" = denotes a parameter for which Paradigm does not carry certification, the results for which should therefore only be used where ELAP certification is not required, such as personal exposure assessment.

GENERAL TERMS AND CONDITIONS
LABORATORY SERVICES

These Terms and Conditions embody the whole agreement of the parties in the absence of a signed and executed contract between the Laboratory (LAB) and Client. They shall supersede all previous communications, representations, or agreements, either verbal or written, between the parties. The LAB specifically rejects all additional, inconsistent, or conflicting terms, whether printed or otherwise set forth in any purchase order or other communication from the Client to the LAB. The invalidity or unenforceability in whole or in part of any provision, tern or condition hereof shall not affect in any way the validity or enforceability of the remainder of the Terms and Conditions. No waiver by LAB of any provision, term, or condition hereof or of any breach by or obligation of the Client hereunder shall constitute a waiver of such provision, term, or condition on any other occasion or a waiver of any other breach by or obligation of the Client. This agreement shall be administered and interpreted under the laws of the state which services are procured.

Warranty. Recognizing that the nature of many samples is unknown and that some may contain potentially hazardous components, LAB warrants only that it will perform testing services, obtain findings, and prepare reports in accordance with generally accepted analytical laboratory principles and practices at the time of performance of services. LAB makes no other warranty, express or implied.

Scope and Compensation. LAB agrees to perform the services described in the chain of custody to which these terms and conditions are attached. Unless the parties agree in writing to the contrary, the duties of LAB shall not be construed to exceed the services specifically described. LAB wi use LAB default method for all tests unless specified otherwise on the Work Order.
Payment terms are net 30 days from the date of invoice. All overdue payments are subject to an interest charge of one and one-half percent (1-1/2%) per month or a portion thereof. Client shall also be responsible for costs of collection, including payment of reasonable attorney fees if such expense is incurred. The prices, unless stated, do not include any sale, use or other taxes. Such taxes will be added to invoice prices when required.

Prices. Compensation for services performed will be based on the current Lab Analytical Fee Schedule or on quotations agreed to in writing by the parties. Turnaround time based charges are determined from the time of resolution of all work order questions. Testimony, court appearances or data compilation for legal action will be charged separately. Evaluation and reporting of initial screening runs may incur additional fees.

Limitations of Liability. In the event of any error, omission, or other professional negligence, the sole and exclusive responsibility of LAB shall be to re-perform the deficient work at its own expense and LAB shall have no other liability whatsoever. All claims shall be deemed waived unless made in writing and received by LAB within ninety (90) days following completion of services.
LAB shall have no liability, obligation, or responsibility of any kind for losses, costs, expenses, or other damages (including but not limited to any special, direct, incidental or consequential damages) with respect to LAB's services or results.
All results provided by LAB are strictly for the use of its clients and LAB is in no way responsible for the use of such results by clients or third parties. All reports should be considered in their entirety, and LAB is not responsible for the separation, detachment, or other use of any portion of these reports. Client may not assign the lab report without the written consent of the LAB.
Client covenants and agrees, at its/his/her sole expense, to indemnify, protect, defend, and save harmless the LAB from and against any and all damages, losses, liabilities, obligations, penalties, claims, litigation, demands, defenses, judgments, suits, actions, proceedings, costs, disbursements and/or expenses (including, without limitation attorneys' and experts' fees and disbursements) of any kind whatsoever which may at any time be imposed upon, incurred by or asserted or awarded against client relating to, resulting from or arising out of (a) the breach of this agreement by this client, (b) the negligence of the client in handling, delivering or disclosing any hazardous substance, (c) the violation of the Client of any applicable law, (d) non-compliance by the Client with any environmental permit or (e) a material misrepresentation in disclosing the materials to be tested.

Hazard Disclosure. Client represents and warrants that any sample delivered to LAB will be preceded or accompanied by complete written disclosure of the presence of any hazardous substances known or suspected by Client. Client further warrants that any sample containing any hazardous substance that is to be delivered to LAB will be packaged, labeled, transported, and delivered properly and in accordance with applicable laws.

Sample Handling. Prior to LAB's acceptance of any sample (or after any revocation of acceptance), the entire risk of loss or of damage to such sample remains with Client. Samples are accepted when receipt is acknowledged on chain of custody documentation. In no event will LAB have any responsibility for the action or inaction of any carrier shipping or delivering any sample to or from LAB premises.
Client authorizes LAB to proceed with the analysis of samples as received by the laboratory, recognizing that any samples not in compliance with all current DOH-ELAP-NELAP requirements for containers, preservation or holding time will be noted as such on th final report.
Disposal of hazardous waste samples is the responsibility of the Client. If the Client does not wish such samples returned, LAB may add storage and disposal fees to the final invoice. Maximum storage time for samples is 30 days after completion of analysis unless modified by applicable state or federal laws. Client will be required to give the LAB written instructions concerning disposal of these samples.
LAB reserves the absolute right, exercisable at any time, to refuse to receive delivery of, refuse to accept, or revoke acceptance of any sample, which, in the sole judgment of LAB (a) is of unsuitable volume, (b) may be or become unsuitable for or may pose a risk in handling, transport, or processing for any health, safety, environmental or other reason whether or not due to the presence in the sample of any hazardous substance, and whether or not such presence has been disclosed to LAB by Client or (c) if the condition or sample date make the sample unsuitable for analysis.

Legal Responsibility. LAB is solely responsible for performance of this contract, and no affiliated company, director, officer, employee, or agent shall have any legal responsibility hereunder, whether in contract or tort including negligence.

Assignment. LAB may assign its performance obligations under this contract to other parties, as it deems necessary. LAB shall disclose to Client any assignee (subcontractor) by ELAP ID # on the submitted final report.

Force Majeure. LAB shall have no responsibility or liability to the Client for any failure or delay in performance by LAB, which results in whole or in part from any cause or circumstance beyond the reasonable control of LAB. Such causes and circumstances shall include, but not limited to, acts of God, acts or orders of any government authority, strikes or other labor disputes, natural disasters, accidents, wars, civil disturbances, difficulties or delays in transportation, mail or delivery services, inability to obtain sufficient services or supplies from LAB's usual suppliers, or any other cause beyond LAB's reasonable control.

Law. This contract shall be continued under the laws of the State of New York without regard to its conflicts of laws provision.

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

1062

CHAIN OF CUSTODY

PARADIGM ENVIRONMENTAL SERVICES, INC.

REPORT TO:		INVOICE TO:		
CLIENT:	City of Rochester	CLIENT:	Day Engineering	LAB PROJECT ID: 212327
ADDRESS:	30 Church Street, Room 300B	ADDRESS:	1563 Lyell Ave	
CITY:	Rochester STATE: NY ZIP 14614	CITY:	Rochester STATE: NY ZIP: 14606	Quotation #:
PHONE:	585-428-7094	PHONE:	(585) 454-0210	Email: alexandra.zobel@cityofrochester.gov
ATTN:	Alexandra Zobel	ATTN:	Barton Kline (Bkline@daymail.net)	

PROJECT REFERENCE

RFA Quarterly Sampling

Matrix Codes:
AQ - Aqueous Liquid; **NQ** - Non-Aqueous Liquid; **WA** - Water; **WG** - Groundwater; **DW** - Drinking Water; **WW** - Wastewater; **SO** - Soil; **SL** - Sludge; **SD** - Solid; **PT** - Paint; **WP** - Wipe; **CK** - Caulk; **OL** - Oil; **AR** - Air

REQUESTED ANALYSIS

DATE COLLECTED	TIME COLLECTED	COMPOSITE	GRAB	SAMPLE IDENTIFIER	MATRIX CODES	NUMBER OF CONTAINERS	624 Site Specific	625 Site Specific	608 Pesticides	Metals*	pH						REMARKS	PARADIGM LAB SAMPLE NUMBER
5/27/2021	1442		X	Effluent	Water	6	X	X	X	X	X						624 Site Specific =VRFA Test Name	01
5/27/2021	1425		X	Influent	Water	3	X		X								625 Site Specific = SMISC	02
																	SVOA List:	
																	Diethyl phthalate	
																	Metals list:	
																	As, Cd, Cr, Cu, Pb, Ni, Se, Zn	
																	Sciut 5/27/21 1657	

Turnaround Time		Report Supplements			
Availability contingent upon lab approval; additional fees may apply.					
Standard 5 day	☐	None Required	☐	None Required	☐
10 day	X	Batch QC	☐	Basic EDD	☐
Rush 3 day	☐	Category A	☐	NYSDEC EDD	☐
Rush 2 day	☐	Category B	☐		
Rush 1 day	☐				
Other please indicate date needed:	☐	Other please indicate package needed:	☐	Other EDD please indicate EDD needed:	☐

Alexandra Zobel	5/27/2021 @ 1425 @ 1442	Sampled By / Date/Time
A. Zobel	5/27/2021 @ 1652	Relinquished By / Date/Time
Mulvail	5/27/21 1652	Received By / Date/Time
Mulvail	5/27/21 1657	Received @ Lab By / Date/Time

Total Cost: ☐

P.I.F. ☐

By signing this form, client agrees to Paradigm Terms and Conditions (reverse).

See additional page for sample conditions.

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PARADIGM

Chain of Custody Supplement

Client:	City of Roch	**Completed by:**	Molyneid
Lab Project ID:	212327	**Date:**	5/27/21

Sample Condition Requirements

Per NELAC/ELAP 210/241/242/243/244

Condition	*NELAC compliance with the sample condition requirements upon receipt* Yes	No	N/A
Container Type	✓		
Comments			
Transferred to method-compliant container			✓
Headspace (<1 mL)	VOA		✓
Comments			
Preservation	VOA met		✓
Comments			
Chlorine Absent (<0.10 ppm per test strip)	SVOA, Pest		✓
Comments	VOA : Cl⁻ neg.		
Holding Time	✓	pH	
Comments			
Temperature	✓		met pH
Comments	5°C iced		
Compliant Sample Quantity/Type	✓		
Comments			

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PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 212328

Client: **City of Rochester**

Project Reference: Rochester Fire Academy Semiannual Groundwater

Sample Identifier: MW 6I
Lab Sample ID: 212328-01 **Date Sampled:** 5/27/2021
Matrix: Groundwater **Date Received:** 5/27/2021

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed
1,1,1-Trichloroethane	< 2.00	ug/L		6/4/2021 17:37
1,1,2,2-Tetrachloroethane	< 2.00	ug/L		6/4/2021 17:37
1,1,2-Trichloroethane	< 2.00	ug/L		6/4/2021 17:37
1,1-Dichloroethane	< 2.00	ug/L		6/4/2021 17:37
1,1-Dichloroethene	< 2.00	ug/L		6/4/2021 17:37
1,2-Dichlorobenzene	< 2.00	ug/L		6/4/2021 17:37
1,2-Dichloroethane	< 2.00	ug/L		6/4/2021 17:37
1,2-Dichloropropane	< 2.00	ug/L		6/4/2021 17:37
1,3-Dichlorobenzene	< 2.00	ug/L		6/4/2021 17:37
1,4-Dichlorobenzene	< 2.00	ug/L		6/4/2021 17:37
2-Chloroethyl vinyl Ether	< 5.00	ug/L		6/4/2021 17:37
Benzene	< 1.00	ug/L		6/4/2021 17:37
Bromodichloromethane	< 2.00	ug/L		6/4/2021 17:37
Bromoform	< 5.00	ug/L		6/4/2021 17:37
Bromomethane	< 2.00	ug/L		6/4/2021 17:37
Carbon Tetrachloride	< 2.00	ug/L		6/4/2021 17:37
Chlorobenzene	< 2.00	ug/L		6/4/2021 17:37
Chloroethane	< 2.00	ug/L		6/4/2021 17:37
Chloroform	< 2.00	ug/L		6/4/2021 17:37
Chloromethane	< 2.00	ug/L		6/4/2021 17:37
cis-1,3-Dichloropropene	< 2.00	ug/L		6/4/2021 17:37
Dibromochloromethane	< 2.00	ug/L		6/4/2021 17:37
Ethylbenzene	< 2.00	ug/L		6/4/2021 17:37

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 212328

Client: **City of Rochester**

Project Reference: Rochester Fire Academy Semiannual Groundwater

Sample Identifier: MW 6I
Lab Sample ID: 212328-01 **Date Sampled:** 5/27/2021
Matrix: Groundwater **Date Received:** 5/27/2021

Methyl tert-butyl Ether	< 2.00	ug/L	6/4/2021	17:37
Methylene chloride	< 5.00	ug/L	6/4/2021	17:37
Tetrachloroethene	< 2.00	ug/L	6/4/2021	17:37
Toluene	< 2.00	ug/L	6/4/2021	17:37
trans-1,2-Dichloroethene	< 2.00	ug/L	6/4/2021	17:37
trans-1,3-Dichloropropene	< 2.00	ug/L	6/4/2021	17:37
Trichloroethene	< 2.00	ug/L	6/4/2021	17:37
Trichlorofluoromethane	< 2.00	ug/L	6/4/2021	17:37
Vinyl chloride	**3.53**	ug/L	6/4/2021	17:37

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed	
1,2-Dichloroethane-d4	**110**	64 - 142		6/4/2021	17:37
4-Bromofluorobenzene	**100**	37.2 - 146		6/4/2021	17:37
Pentafluorobenzene	**104**	91.4 - 114		6/4/2021	17:37
Toluene-D8	**88.8**	73.1 - 120		6/4/2021	17:37

Method Reference(s): EPA 624.1
Data File: z02115.D

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 212328

Client: **City of Rochester**

Project Reference: Rochester Fire Academy Semiannual Groundwater

Sample Identifier: MW 7I
Lab Sample ID: 212328-02 **Date Sampled:** 5/27/2021
Matrix: Groundwater **Date Received:** 5/27/2021

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed
1,1,1-Trichloroethane	**163**	ug/L		6/4/2021 17:57
1,1,2,2-Tetrachloroethane	< 10.0	ug/L		6/4/2021 17:57
1,1,2-Trichloroethane	< 10.0	ug/L		6/4/2021 17:57
1,1-Dichloroethane	**195**	ug/L		6/4/2021 17:57
1,1-Dichloroethene	**10.9**	ug/L		6/4/2021 17:57
1,2-Dichlorobenzene	< 10.0	ug/L		6/4/2021 17:57
1,2-Dichloroethane	< 10.0	ug/L		6/4/2021 17:57
1,2-Dichloropropane	< 10.0	ug/L		6/4/2021 17:57
1,3-Dichlorobenzene	< 10.0	ug/L		6/4/2021 17:57
1,4-Dichlorobenzene	< 10.0	ug/L		6/4/2021 17:57
2-Chloroethyl vinyl Ether	< 25.0	ug/L		6/4/2021 17:57
Benzene	< 5.00	ug/L		6/4/2021 17:57
Bromodichloromethane	< 10.0	ug/L		6/4/2021 17:57
Bromoform	< 25.0	ug/L		6/4/2021 17:57
Bromomethane	< 10.0	ug/L		6/4/2021 17:57
Carbon Tetrachloride	< 10.0	ug/L		6/4/2021 17:57
Chlorobenzene	< 10.0	ug/L		6/4/2021 17:57
Chloroethane	< 10.0	ug/L		6/4/2021 17:57
Chloroform	< 10.0	ug/L		6/4/2021 17:57
Chloromethane	< 10.0	ug/L		6/4/2021 17:57
cis-1,3-Dichloropropene	< 10.0	ug/L		6/4/2021 17:57
Dibromochloromethane	< 10.0	ug/L		6/4/2021 17:57
Ethylbenzene	< 10.0	ug/L		6/4/2021 17:57

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 212328

Client: **City of Rochester**

Project Reference: Rochester Fire Academy Semiannual Groundwater

Sample Identifier: MW 7I
Lab Sample ID: 212328-02 **Date Sampled:** 5/27/2021
Matrix: Groundwater **Date Received:** 5/27/2021

Methyl tert-butyl Ether	< 10.0	ug/L	6/4/2021	17:57
Methylene chloride	< 25.0	ug/L	6/4/2021	17:57
Tetrachloroethene	< 10.0	ug/L	6/4/2021	17:57
Toluene	< 10.0	ug/L	6/4/2021	17:57
trans-1,2-Dichloroethene	< 10.0	ug/L	6/4/2021	17:57
trans-1,3-Dichloropropene	< 10.0	ug/L	6/4/2021	17:57
Trichloroethene	< 10.0	ug/L	6/4/2021	17:57
Trichlorofluoromethane	< 10.0	ug/L	6/4/2021	17:57
Vinyl chloride	**52.4**	ug/L	6/4/2021	17:57

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed	
1,2-Dichloroethane-d4	**107**	64 - 142		6/4/2021	17:57
4-Bromofluorobenzene	**107**	37.2 - 146		6/4/2021	17:57
Pentafluorobenzene	**106**	91.4 - 114		6/4/2021	17:57
Toluene-D8	**91.9**	73.1 - 120		6/4/2021	17:57

Method Reference(s): EPA 624.1
Data File: z02116.D

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 212328

Client: **City of Rochester**

Project Reference: Rochester Fire Academy Semiannual Groundwater

Sample Identifier:	MW 7S		
Lab Sample ID:	212328-03	**Date Sampled:**	5/27/2021
Matrix:	Groundwater	**Date Received:**	5/27/2021

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed
1,1,1-Trichloroethane	**67.6**	ug/L		6/4/2021 18:18
1,1,2,2-Tetrachloroethane	< 4.00	ug/L		6/4/2021 18:18
1,1,2-Trichloroethane	< 4.00	ug/L		6/4/2021 18:18
1,1-Dichloroethane	**88.6**	ug/L		6/4/2021 18:18
1,1-Dichloroethene	< 4.00	ug/L		6/4/2021 18:18
1,2-Dichlorobenzene	< 4.00	ug/L		6/4/2021 18:18
1,2-Dichloroethane	< 4.00	ug/L		6/4/2021 18:18
1,2-Dichloropropane	< 4.00	ug/L		6/4/2021 18:18
1,3-Dichlorobenzene	< 4.00	ug/L		6/4/2021 18:18
1,4-Dichlorobenzene	< 4.00	ug/L		6/4/2021 18:18
2-Chloroethyl vinyl Ether	< 10.0	ug/L		6/4/2021 18:18
Benzene	< 2.00	ug/L		6/4/2021 18:18
Bromodichloromethane	< 4.00	ug/L		6/4/2021 18:18
Bromoform	< 10.0	ug/L		6/4/2021 18:18
Bromomethane	< 4.00	ug/L		6/4/2021 18:18
Carbon Tetrachloride	< 4.00	ug/L		6/4/2021 18:18
Chlorobenzene	< 4.00	ug/L		6/4/2021 18:18
Chloroethane	< 4.00	ug/L		6/4/2021 18:18
Chloroform	< 4.00	ug/L		6/4/2021 18:18
Chloromethane	< 4.00	ug/L		6/4/2021 18:18
cis-1,3-Dichloropropene	< 4.00	ug/L		6/4/2021 18:18
Dibromochloromethane	< 4.00	ug/L		6/4/2021 18:18
Ethylbenzene	< 4.00	ug/L		6/4/2021 18:18

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 212328

Client: **City of Rochester**

Project Reference: Rochester Fire Academy Semiannual Groundwater

Sample Identifier: MW 7S
Lab Sample ID: 212328-03 **Date Sampled:** 5/27/2021
Matrix: Groundwater **Date Received:** 5/27/2021

Methyl tert-butyl Ether	< 4.00	ug/L		6/4/2021	18:18
Methylene chloride	< 10.0	ug/L		6/4/2021	18:18
Tetrachloroethene	< 4.00	ug/L		6/4/2021	18:18
Toluene	< 4.00	ug/L		6/4/2021	18:18
trans-1,2-Dichloroethene	< 4.00	ug/L		6/4/2021	18:18
trans-1,3-Dichloropropene	< 4.00	ug/L		6/4/2021	18:18
Trichloroethene	**3.39**	ug/L	J	6/4/2021	18:18
Trichlorofluoromethane	< 4.00	ug/L		6/4/2021	18:18
Vinyl chloride	< 4.00	ug/L		6/4/2021	18:18

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed	
1,2-Dichloroethane-d4	**106**	64 - 142		6/4/2021	18:18
4-Bromofluorobenzene	**105**	37.2 - 146		6/4/2021	18:18
Pentafluorobenzene	**107**	91.4 - 114		6/4/2021	18:18
Toluene-D8	**93.4**	73.1 - 120		6/4/2021	18:18

Method Reference(s): EPA 624.1
Data File: z02117.D

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 212328

Client: **City of Rochester**

Project Reference: Rochester Fire Academy Semiannual Groundwater

Sample Identifier: MW 8I
Lab Sample ID: 212328-04 **Date Sampled:** 5/27/2021
Matrix: Groundwater **Date Received:** 5/27/2021

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed
1,1,1-Trichloroethane	< 2.00	ug/L		6/4/2021 18:39
1,1,2,2-Tetrachloroethane	< 2.00	ug/L		6/4/2021 18:39
1,1,2-Trichloroethane	< 2.00	ug/L		6/4/2021 18:39
1,1-Dichloroethane	< 2.00	ug/L		6/4/2021 18:39
1,1-Dichloroethene	< 2.00	ug/L		6/4/2021 18:39
1,2-Dichlorobenzene	< 2.00	ug/L		6/4/2021 18:39
1,2-Dichloroethane	< 2.00	ug/L		6/4/2021 18:39
1,2-Dichloropropane	< 2.00	ug/L		6/4/2021 18:39
1,3-Dichlorobenzene	< 2.00	ug/L		6/4/2021 18:39
1,4-Dichlorobenzene	< 2.00	ug/L		6/4/2021 18:39
2-Chloroethyl vinyl Ether	< 5.00	ug/L		6/4/2021 18:39
Benzene	< 1.00	ug/L		6/4/2021 18:39
Bromodichloromethane	< 2.00	ug/L		6/4/2021 18:39
Bromoform	< 5.00	ug/L		6/4/2021 18:39
Bromomethane	< 2.00	ug/L		6/4/2021 18:39
Carbon Tetrachloride	< 2.00	ug/L		6/4/2021 18:39
Chlorobenzene	< 2.00	ug/L		6/4/2021 18:39
Chloroethane	< 2.00	ug/L		6/4/2021 18:39
Chloroform	< 2.00	ug/L		6/4/2021 18:39
Chloromethane	< 2.00	ug/L		6/4/2021 18:39
cis-1,3-Dichloropropene	< 2.00	ug/L		6/4/2021 18:39
Dibromochloromethane	< 2.00	ug/L		6/4/2021 18:39
Ethylbenzene	< 2.00	ug/L		6/4/2021 18:39

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 212328

Client: **City of Rochester**

Project Reference: Rochester Fire Academy Semiannual Groundwater

Sample Identifier: MW 8I
Lab Sample ID: 212328-04 **Date Sampled:** 5/27/2021
Matrix: Groundwater **Date Received:** 5/27/2021

Methyl tert-butyl Ether	< 2.00	ug/L	6/4/2021	18:39
Methylene chloride	< 5.00	ug/L	6/4/2021	18:39
Tetrachloroethene	< 2.00	ug/L	6/4/2021	18:39
Toluene	< 2.00	ug/L	6/4/2021	18:39
trans-1,2-Dichloroethene	< 2.00	ug/L	6/4/2021	18:39
trans-1,3-Dichloropropene	< 2.00	ug/L	6/4/2021	18:39
Trichloroethene	< 2.00	ug/L	6/4/2021	18:39
Trichlorofluoromethane	< 2.00	ug/L	6/4/2021	18:39
Vinyl chloride	**31.5**	ug/L	6/4/2021	18:39

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed	
1,2-Dichloroethane-d4	**107**	64 - 142		6/4/2021	18:39
4-Bromofluorobenzene	**102**	37.2 - 146		6/4/2021	18:39
Pentafluorobenzene	**105**	91.4 - 114		6/4/2021	18:39
Toluene-D8	**94.5**	73.1 - 120		6/4/2021	18:39

Method Reference(s): EPA 624.1
Data File: z02118.D

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 212328

Client: **City of Rochester**

Project Reference: Rochester Fire Academy Semiannual Groundwater

Sample Identifier: MW 9D
Lab Sample ID: 212328-05 **Date Sampled:** 5/27/2021
Matrix: Groundwater **Date Received:** 5/27/2021

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed
1,1,1-Trichloroethane	< 2.00	ug/L		6/4/2021 19:00
1,1,2,2-Tetrachloroethane	< 2.00	ug/L		6/4/2021 19:00
1,1,2-Trichloroethane	< 2.00	ug/L		6/4/2021 19:00
1,1-Dichloroethane	< 2.00	ug/L		6/4/2021 19:00
1,1-Dichloroethene	< 2.00	ug/L		6/4/2021 19:00
1,2-Dichlorobenzene	< 2.00	ug/L		6/4/2021 19:00
1,2-Dichloroethane	< 2.00	ug/L		6/4/2021 19:00
1,2-Dichloropropane	< 2.00	ug/L		6/4/2021 19:00
1,3-Dichlorobenzene	< 2.00	ug/L		6/4/2021 19:00
1,4-Dichlorobenzene	< 2.00	ug/L		6/4/2021 19:00
2-Chloroethyl vinyl Ether	< 5.00	ug/L		6/4/2021 19:00
Benzene	< 1.00	ug/L		6/4/2021 19:00
Bromodichloromethane	< 2.00	ug/L		6/4/2021 19:00
Bromoform	< 5.00	ug/L		6/4/2021 19:00
Bromomethane	< 2.00	ug/L		6/4/2021 19:00
Carbon Tetrachloride	< 2.00	ug/L		6/4/2021 19:00
Chlorobenzene	< 2.00	ug/L		6/4/2021 19:00
Chloroethane	< 2.00	ug/L		6/4/2021 19:00
Chloroform	< 2.00	ug/L		6/4/2021 19:00
Chloromethane	< 2.00	ug/L		6/4/2021 19:00
cis-1,3-Dichloropropene	< 2.00	ug/L		6/4/2021 19:00
Dibromochloromethane	< 2.00	ug/L		6/4/2021 19:00
Ethylbenzene	< 2.00	ug/L		6/4/2021 19:00

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 212328

Client: **City of Rochester**

Project Reference: Rochester Fire Academy Semiannual Groundwater

Sample Identifier: MW 9D
Lab Sample ID: 212328-05 **Date Sampled:** 5/27/2021
Matrix: Groundwater **Date Received:** 5/27/2021

Methyl tert-butyl Ether	< 2.00	ug/L	6/4/2021	19:00
Methylene chloride	< 5.00	ug/L	6/4/2021	19:00
Tetrachloroethene	< 2.00	ug/L	6/4/2021	19:00
Toluene	< 2.00	ug/L	6/4/2021	19:00
trans-1,2-Dichloroethene	< 2.00	ug/L	6/4/2021	19:00
trans-1,3-Dichloropropene	< 2.00	ug/L	6/4/2021	19:00
Trichloroethene	< 2.00	ug/L	6/4/2021	19:00
Trichlorofluoromethane	< 2.00	ug/L	6/4/2021	19:00
Vinyl chloride	**4.35**	ug/L	6/4/2021	19:00

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed	
1,2-Dichloroethane-d4	**103**	64 - 142		6/4/2021	19:00
4-Bromofluorobenzene	**90.7**	37.2 - 146		6/4/2021	19:00
Pentafluorobenzene	**102**	91.4 - 114		6/4/2021	19:00
Toluene-D8	**90.4**	73.1 - 120		6/4/2021	19:00

Method Reference(s): EPA 624.1
Data File: z02119.D

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 212328

Client: **City of Rochester**

Project Reference: Rochester Fire Academy Semiannual Groundwater

Sample Identifier: MW 10I
Lab Sample ID: 212328-06 **Date Sampled:** 5/27/2021
Matrix: Groundwater **Date Received:** 5/27/2021

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed
1,1,1-Trichloroethane	< 2.00	ug/L		6/4/2021 20:02
1,1,2,2-Tetrachloroethane	< 2.00	ug/L		6/4/2021 20:02
1,1,2-Trichloroethane	< 2.00	ug/L		6/4/2021 20:02
1,1-Dichloroethane	< 2.00	ug/L		6/4/2021 20:02
1,1-Dichloroethene	< 2.00	ug/L		6/4/2021 20:02
1,2-Dichlorobenzene	< 2.00	ug/L		6/4/2021 20:02
1,2-Dichloroethane	< 2.00	ug/L		6/4/2021 20:02
1,2-Dichloropropane	< 2.00	ug/L		6/4/2021 20:02
1,3-Dichlorobenzene	< 2.00	ug/L		6/4/2021 20:02
1,4-Dichlorobenzene	< 2.00	ug/L		6/4/2021 20:02
2-Chloroethyl vinyl Ether	< 5.00	ug/L		6/4/2021 20:02
Benzene	< 1.00	ug/L		6/4/2021 20:02
Bromodichloromethane	< 2.00	ug/L		6/4/2021 20:02
Bromoform	< 5.00	ug/L		6/4/2021 20:02
Bromomethane	< 2.00	ug/L		6/4/2021 20:02
Carbon Tetrachloride	< 2.00	ug/L		6/4/2021 20:02
Chlorobenzene	< 2.00	ug/L		6/4/2021 20:02
Chloroethane	< 2.00	ug/L		6/4/2021 20:02
Chloroform	< 2.00	ug/L		6/4/2021 20:02
Chloromethane	< 2.00	ug/L		6/4/2021 20:02
cis-1,3-Dichloropropene	< 2.00	ug/L		6/4/2021 20:02
Dibromochloromethane	< 2.00	ug/L		6/4/2021 20:02
Ethylbenzene	< 2.00	ug/L		6/4/2021 20:02

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 212328

Client: **City of Rochester**

Project Reference: Rochester Fire Academy Semiannual Groundwater

Sample Identifier: MW 10I
Lab Sample ID: 212328-06 **Date Sampled:** 5/27/2021
Matrix: Groundwater **Date Received:** 5/27/2021

Methyl tert-butyl Ether	**7.73**	ug/L	6/4/2021	20:02
Methylene chloride	< 5.00	ug/L	6/4/2021	20:02
Tetrachloroethene	< 2.00	ug/L	6/4/2021	20:02
Toluene	< 2.00	ug/L	6/4/2021	20:02
trans-1,2-Dichloroethene	< 2.00	ug/L	6/4/2021	20:02
trans-1,3-Dichloropropene	< 2.00	ug/L	6/4/2021	20:02
Trichloroethene	< 2.00	ug/L	6/4/2021	20:02
Trichlorofluoromethane	< 2.00	ug/L	6/4/2021	20:02
Vinyl chloride	< 2.00	ug/L	6/4/2021	20:02

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed	
1,2-Dichloroethane-d4	**110**	64 - 142		6/4/2021	20:02
4-Bromofluorobenzene	**105**	37.2 - 146		6/4/2021	20:02
Pentafluorobenzene	**102**	91.4 - 114		6/4/2021	20:02
Toluene-D8	**97.8**	73.1 - 120		6/4/2021	20:02

Method Reference(s): EPA 624.1
Data File: z02122.D

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 212328

Client: **City of Rochester**

Project Reference: Rochester Fire Academy Semiannual Groundwater

Sample Identifier: MW 11I
Lab Sample ID: 212328-07 **Date Sampled:** 5/27/2021
Matrix: Groundwater **Date Received:** 5/27/2021

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed
1,1,1-Trichloroethane	< 5.00	ug/L		6/4/2021 19:20
1,1,2,2-Tetrachloroethane	< 5.00	ug/L		6/4/2021 19:20
1,1,2-Trichloroethane	< 5.00	ug/L		6/4/2021 19:20
1,1-Dichloroethane	< 5.00	ug/L		6/4/2021 19:20
1,1-Dichloroethene	< 5.00	ug/L		6/4/2021 19:20
1,2-Dichlorobenzene	< 5.00	ug/L		6/4/2021 19:20
1,2-Dichloroethane	**48.9**	ug/L		6/4/2021 19:20
1,2-Dichloropropane	< 5.00	ug/L		6/4/2021 19:20
1,3-Dichlorobenzene	< 5.00	ug/L		6/4/2021 19:20
1,4-Dichlorobenzene	< 5.00	ug/L		6/4/2021 19:20
2-Chloroethyl vinyl Ether	< 12.5	ug/L		6/4/2021 19:20
Benzene	< 2.50	ug/L		6/4/2021 19:20
Bromodichloromethane	< 5.00	ug/L		6/4/2021 19:20
Bromoform	< 12.5	ug/L		6/4/2021 19:20
Bromomethane	< 5.00	ug/L		6/4/2021 19:20
Carbon Tetrachloride	< 5.00	ug/L		6/4/2021 19:20
Chlorobenzene	< 5.00	ug/L		6/4/2021 19:20
Chloroethane	< 5.00	ug/L		6/4/2021 19:20
Chloroform	< 5.00	ug/L		6/4/2021 19:20
Chloromethane	< 5.00	ug/L		6/4/2021 19:20
cis-1,3-Dichloropropene	< 5.00	ug/L		6/4/2021 19:20
Dibromochloromethane	< 5.00	ug/L		6/4/2021 19:20
Ethylbenzene	< 5.00	ug/L		6/4/2021 19:20

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 212328

Client: **City of Rochester**

Project Reference: Rochester Fire Academy Semiannual Groundwater

Sample Identifier: MW 11I
Lab Sample ID: 212328-07 **Date Sampled:** 5/27/2021
Matrix: Groundwater **Date Received:** 5/27/2021

Methyl tert-butyl Ether	< 5.00	ug/L	6/4/2021	19:20
Methylene chloride	< 12.5	ug/L	6/4/2021	19:20
Tetrachloroethene	< 5.00	ug/L	6/4/2021	19:20
Toluene	< 5.00	ug/L	6/4/2021	19:20
trans-1,2-Dichloroethene	< 5.00	ug/L	6/4/2021	19:20
trans-1,3-Dichloropropene	< 5.00	ug/L	6/4/2021	19:20
Trichloroethene	< 5.00	ug/L	6/4/2021	19:20
Trichlorofluoromethane	< 5.00	ug/L	6/4/2021	19:20
Vinyl chloride	**125**	ug/L	6/4/2021	19:20

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed	
1,2-Dichloroethane-d4	**103**	64 - 142		6/4/2021	19:20
4-Bromofluorobenzene	**100**	37.2 - 146		6/4/2021	19:20
Pentafluorobenzene	**101**	91.4 - 114		6/4/2021	19:20
Toluene-D8	**92.1**	73.1 - 120		6/4/2021	19:20

Method Reference(s): EPA 624.1
Data File: z02120.D

Report Prepared Friday, June 11, 2021

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 212328

Client: **City of Rochester**

Project Reference: Rochester Fire Academy Semiannual Groundwater

Sample Identifier: MW 15S
Lab Sample ID: 212328-08 **Date Sampled:** 5/27/2021
Matrix: Groundwater **Date Received:** 5/27/2021

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed
1,1,1-Trichloroethane	< 2.00	ug/L		6/4/2021 19:41
1,1,2,2-Tetrachloroethane	< 2.00	ug/L		6/4/2021 19:41
1,1,2-Trichloroethane	< 2.00	ug/L		6/4/2021 19:41
1,1-Dichloroethane	< 2.00	ug/L		6/4/2021 19:41
1,1-Dichloroethene	< 2.00	ug/L		6/4/2021 19:41
1,2-Dichlorobenzene	< 2.00	ug/L		6/4/2021 19:41
1,2-Dichloroethane	< 2.00	ug/L		6/4/2021 19:41
1,2-Dichloropropane	< 2.00	ug/L		6/4/2021 19:41
1,3-Dichlorobenzene	< 2.00	ug/L		6/4/2021 19:41
1,4-Dichlorobenzene	< 2.00	ug/L		6/4/2021 19:41
2-Chloroethyl vinyl Ether	< 5.00	ug/L		6/4/2021 19:41
Benzene	< 1.00	ug/L		6/4/2021 19:41
Bromodichloromethane	< 2.00	ug/L		6/4/2021 19:41
Bromoform	< 5.00	ug/L		6/4/2021 19:41
Bromomethane	< 2.00	ug/L		6/4/2021 19:41
Carbon Tetrachloride	< 2.00	ug/L		6/4/2021 19:41
Chlorobenzene	< 2.00	ug/L		6/4/2021 19:41
Chloroethane	< 2.00	ug/L		6/4/2021 19:41
Chloroform	< 2.00	ug/L		6/4/2021 19:41
Chloromethane	< 2.00	ug/L		6/4/2021 19:41
cis-1,3-Dichloropropene	< 2.00	ug/L		6/4/2021 19:41
Dibromochloromethane	< 2.00	ug/L		6/4/2021 19:41
Ethylbenzene	< 2.00	ug/L		6/4/2021 19:41

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 212328

Client: **City of Rochester**

Project Reference: Rochester Fire Academy Semiannual Groundwater

Sample Identifier: MW 15S
Lab Sample ID: 212328-08 **Date Sampled:** 5/27/2021
Matrix: Groundwater **Date Received:** 5/27/2021

Methyl tert-butyl Ether	< 2.00	ug/L	6/4/2021	19:41
Methylene chloride	< 5.00	ug/L	6/4/2021	19:41
Tetrachloroethene	< 2.00	ug/L	6/4/2021	19:41
Toluene	< 2.00	ug/L	6/4/2021	19:41
trans-1,2-Dichloroethene	< 2.00	ug/L	6/4/2021	19:41
trans-1,3-Dichloropropene	< 2.00	ug/L	6/4/2021	19:41
Trichloroethene	< 2.00	ug/L	6/4/2021	19:41
Trichlorofluoromethane	< 2.00	ug/L	6/4/2021	19:41
Vinyl chloride	< 2.00	ug/L	6/4/2021	19:41

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed	
1,2-Dichloroethane-d4	**107**	64 - 142		6/4/2021	19:41
4-Bromofluorobenzene	**92.1**	37.2 - 146		6/4/2021	19:41
Pentafluorobenzene	**103**	91.4 - 114		6/4/2021	19:41
Toluene-D8	**93.5**	73.1 - 120		6/4/2021	19:41

Method Reference(s): EPA 624.1
Data File: z02121.D

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 212328

Client: **City of Rochester**

Project Reference: Rochester Fire Academy Semiannual Groundwater

Sample Identifier: Trip Blank T1056
Lab Sample ID: 212328-09 **Date Sampled:** 5/26/2021
Matrix: Water **Date Received:** 5/27/2021

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed
1,1,1-Trichloroethane	< 2.00	ug/L		6/4/2021 17:16
1,1,2,2-Tetrachloroethane	< 2.00	ug/L		6/4/2021 17:16
1,1,2-Trichloroethane	< 2.00	ug/L		6/4/2021 17:16
1,1-Dichloroethane	< 2.00	ug/L		6/4/2021 17:16
1,1-Dichloroethene	< 2.00	ug/L		6/4/2021 17:16
1,2-Dichlorobenzene	< 2.00	ug/L		6/4/2021 17:16
1,2-Dichloroethane	< 2.00	ug/L		6/4/2021 17:16
1,2-Dichloropropane	< 2.00	ug/L		6/4/2021 17:16
1,3-Dichlorobenzene	< 2.00	ug/L		6/4/2021 17:16
1,4-Dichlorobenzene	< 2.00	ug/L		6/4/2021 17:16
2-Chloroethyl vinyl Ether	< 5.00	ug/L		6/4/2021 17:16
Benzene	< 1.00	ug/L		6/4/2021 17:16
Bromodichloromethane	< 2.00	ug/L		6/4/2021 17:16
Bromoform	< 5.00	ug/L		6/4/2021 17:16
Bromomethane	< 2.00	ug/L		6/4/2021 17:16
Carbon Tetrachloride	< 2.00	ug/L		6/4/2021 17:16
Chlorobenzene	< 2.00	ug/L		6/4/2021 17:16
Chloroethane	< 2.00	ug/L		6/4/2021 17:16
Chloroform	< 2.00	ug/L		6/4/2021 17:16
Chloromethane	< 2.00	ug/L		6/4/2021 17:16
cis-1,3-Dichloropropene	< 2.00	ug/L		6/4/2021 17:16
Dibromochloromethane	< 2.00	ug/L		6/4/2021 17:16
Ethylbenzene	< 2.00	ug/L		6/4/2021 17:16

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 212328

Client: **City of Rochester**

Project Reference: Rochester Fire Academy Semiannual Groundwater

Sample Identifier: Trip Blank T1056
Lab Sample ID: 212328-09 **Date Sampled:** 5/26/2021
Matrix: Water **Date Received:** 5/27/2021

Methyl tert-butyl Ether	< 2.00	ug/L	6/4/2021	17:16
Methylene chloride	< 5.00	ug/L	6/4/2021	17:16
Tetrachloroethene	< 2.00	ug/L	6/4/2021	17:16
Toluene	< 2.00	ug/L	6/4/2021	17:16
trans-1,2-Dichloroethene	< 2.00	ug/L	6/4/2021	17:16
trans-1,3-Dichloropropene	< 2.00	ug/L	6/4/2021	17:16
Trichloroethene	< 2.00	ug/L	6/4/2021	17:16
Trichlorofluoromethane	< 2.00	ug/L	6/4/2021	17:16
Vinyl chloride	< 2.00	ug/L	6/4/2021	17:16

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed	
1,2-Dichloroethane-d4	**101**	64 - 142		6/4/2021	17:16
4-Bromofluorobenzene	**88.8**	37.2 - 146		6/4/2021	17:16
Pentafluorobenzene	**96.4**	91.4 - 114		6/4/2021	17:16
Toluene-D8	**89.0**	73.1 - 120		6/4/2021	17:16

Method Reference(s): EPA 624.1
Data File: z02114.D

Report Prepared Friday, June 11, 2021

Analytical Report Appendix

The reported results relate only to the samples as they have been received by the laboratory.

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All soil/sludge samples have been reported on a dry weight basis, unless qualified "reported as received". Other solids are reported as received.

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Data qualifiers are used, when necessary, to provide additional information about the data. This information may be communicated as a flag or as text at the bottom of the report. Please refer to the following list of analyte-specific, frequently used data flags and their meaning:

"<" = Analyzed for but not detected at or above the quantitation limit.
"E" = Result has been estimated, calibration limit exceeded.
"Z" = See case narrative.
"D" = Sample, Laboratory Control Sample, or Matrix Spike Duplicate results above Relative Percent Difference limit.
"M" = Matrix spike recoveries outside QC limits. Matrix bias indicated.
"B" = Method blank contained trace levels of analyte. Refer to included method blank report.
"J" = Result estimated between the quantitation limit and half the quantitation limit.
"L" = Laboratory Control Sample recovery outside accepted QC limits.
"P" = Concentration differs by more than 40% between the primary and secondary analytical columns.
"NC" = Not calculable. Applicable to RPD if sample or duplicate result is non-detect or estimated (see primary report for data flags). Applicable to MS if sample is greater or equal to ten times the spike added. Applicable to sample surrogates or MS if sample dilution is 10x or higher.
"" = Indicates any recoveries outside associated acceptance windows. Surrogate outliers in samples are presumed matrix effects. LCS demonstrates method compliance unless otherwise noted.*
"(1)" = Indicates data from primary column used for QC calculation.
"A" = denotes a parameter for which ELAP does not offer approval as part of their laboratory certification program.
"F" = denotes a parameter for which Paradigm does not carry certification, the results for which should therefore only be used where ELAP certification is not required, such as personal exposure assessment.

GENERAL TERMS AND CONDITIONS
LABORATORY SERVICES

These Terms and Conditions embody the whole agreement of the parties in the absence of a signed and executed contract between the Laboratory (LAB) and Client. They shall supersede all previous communications, representations, or agreements, either verbal or written, between the parties. The LAB specifically rejects all additional, inconsistent, or conflicting terms, whether printed or otherwise set forth in any purchase order or other communication from the Client to the LAB. The invalidity or unenforceability in whole or in part of any provision, tern or condition hereof shall not affect in any way the validity or enforceability of the remainder of the Terms and Conditions. No waiver by LAB of any provision, term, or condition hereof or of any breach by or obligation of the Client hereunder shall constitute a waiver of such provision, term, or condition on any other occasion or a waiver of any other breach by or obligation of the Client. This agreement shall be administered and interpreted under the laws of the state which services are procured.

Warranty. Recognizing that the nature of many samples is unknown and that some may contain potentially hazardous components, LAB warrants only that it will perform testing services, obtain findings, and prepare reports in accordance with generally accepted analytical laboratory principles and practices at the time of performance of services. LAB makes no other warranty, express or implied.

Scope and Compensation. LAB agrees to perform the services described in the chain of custody to which these terms and conditions are attached. Unless the parties agree in writing to the contrary, the duties of LAB shall not be construed to exceed the services specifically described. LAB wi use LAB default method for all tests unless specified otherwise on the Work Order.
Payment terms are net 30 days from the date of invoice. All overdue payments are subject to an interest charge of one and one-half percent (1-1/2%) per month or a portion thereof. Client shall also be responsible for costs of collection, including payment of reasonable attorney fees if such expense is incurred. The prices, unless stated, do not include any sale, use or other taxes. Such taxes will be added to invoice prices when required.

Prices. Compensation for services performed will be based on the current Lab Analytical Fee Schedule or on quotations agreed to in writing by the parties. Turnaround time based charges are determined from the time of resolution of all work order questions. Testimony, court appearances or data compilation for legal action will be charged separately. Evaluation and reporting of initial screening runs may incur additional fees.

Limitations of Liability. In the event of any error, omission, or other professional negligence, the sole and exclusive responsibility of LAB shall be to re-perform the deficient work at its own expense and LAB shall have no other liability whatsoever. All claims shall be deemed waived unless made in writing and received by LAB within ninety (90) days following completion of services.
LAB shall have no liability, obligation, or responsibility of any kind for losses, costs, expenses, or other damages (including but not limited to any special, direct, incidental or consequential damages) with respect to LAB's services or results.
All results provided by LAB are strictly for the use of its clients and LAB is in no way responsible for the use of such results by clients or third parties. All reports should be considered in their entirety, and LAB is not responsible for the separation, detachment, or other use of any portion of these reports. Client may not assign the lab report without the written consent of the LAB.
Client covenants and agrees, at its/his/her sole expense, to indemnify, protect, defend, and save harmless the LAB from and against any and all damages, losses, liabilities, obligations, penalties, claims, litigation, demands, defenses, judgments, suits, actions, proceedings, costs, disbursements and/or expenses (including, without limitation attorneys' and experts' fees and disbursements) of any kind whatsoever which may at any time be imposed upon, incurred by or asserted or awarded against client relating to, resulting from or arising out of (a) the breach of this agreement by this client, (b) the negligence of the client in handling, delivering or disclosing any hazardous substance, (c) the violation of the Client of any applicable law, (d) non-compliance by the Client with any environmental permit or (e) a material misrepresentation in disclosing the materials to be tested.

Hazard Disclosure. Client represents and warrants that any sample delivered to LAB will be preceded or accompanied by complete written disclosure of the presence of any hazardous substances known or suspected by Client. Client further warrants that any sample containing any hazardous substance that is to be delivered to LAB will be packaged, labeled, transported, and delivered properly and in accordance with applicable laws.

Sample Handling. Prior to LAB's acceptance of any sample (or after any revocation of acceptance), the entire risk of loss or of damage to such sample remains with Client. Samples are accepted when receipt is acknowledged on chain of custody documentation. In no event will LAB have any responsibility for the action or inaction of any carrier shipping or delivering any sample to or from LAB premises.
Client authorizes LAB to proceed with the analysis of samples as received by the laboratory, recognizing that any samples not in compliance with all current DOH-ELAP-NELAP requirements for containers, preservation or holding time will be noted as such on th final report.
Disposal of hazardous waste samples is the responsibility of the Client. If the Client does not wish such samples returned, LAB may add storage and disposal fees to the final invoice. Maximum storage time for samples is 30 days after completion of analysis unless modified by applicable state or federal laws. Client will be required to give the LAB written instructions concerning disposal of these samples.
LAB reserves the absolute right, exercisable at any time, to refuse to receive delivery of, refuse to accept, or revoke acceptance of any sample, which, in the sole judgment of LAB (a) is of unsuitable volume, (b) may be or become unsuitable for or may pose a risk in handling, transport, or processing for any health, safety, environmental or other reason whether or not due to the presence in the sample of any hazardous substance, and whether or not such presence has been disclosed to LAB by Client or (c) if the condition or sample date make the sample unsuitable for analysis.

Legal Responsibility. LAB is solely responsible for performance of this contract, and no affiliated company, director, officer, employee, or agent shall have any legal responsibility hereunder, whether in contract or tort including negligence.

Assignment. LAB may assign its performance obligations under this contract to other parties, as it deems necessary. LAB shall disclose to Client any assignee (subcontractor) by ELAP ID # on the submitted final report.

Force Majeure. LAB shall have no responsibility or liability to the Client for any failure or delay in performance by LAB, which results in whole or in part from any cause or circumstance beyond the reasonable control of LAB. Such causes and circumstances shall include, but not limited to, acts of God, acts or orders of any government authority, strikes or other labor disputes, natural disasters, accidents, wars, civil disturbances, difficulties or delays in transportation, mail or delivery services, inability to obtain sufficient services or supplies from LAB's usual suppliers, or any other cause beyond LAB's reasonable control.

Law. This contract shall be continued under the laws of the State of New York without regard to its conflicts of laws provision.

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

CHAIN OF CUSTODY *emailing invoice is preferred*

PARADIGM ENVIRONMENTAL SERVICES, INC

REPORT TO:		INVOICE TO:		LAB PROJECT ID
CLIENT:	CITY OF ROCHESTER	CLIENT:	Day Engineering	212328
ADDRESS:	30 CHURCH ST ROOM 300B	ADDRESS:	1563 Lyell Ave	
CITY:	ROCHESTER STATE: NY ZIP: 14614	CITY:	Rochester STATE: NY ZIP: 14606	Quotation #:
PHONE:	585-428-7094	PHONE:	(585) 454-0210 email invoice:	Email: alexandra.zobel@cityofrochester.gov
ATTN:	Alexandra Zobel	ATTN:	Barton Kline (BKline@daymail.net)	

PROJECT REFERENCE
Rochester Fire Academy
Semiannual Groundwater Sampling

Matrix Codes:
AQ - Aqueous Liquid; NQ - Non-Aqueous Liquid; WA - Water; WG - Groundwater; DW - Drinking Water; WW - Wastewater; SO - Soil; SL - Sludge; SD - Solid; PT - Paint; WP - Wipe; CK - Caulk; OL - Oil; AR - Air

REQUESTED ANALYSIS

DATE COLLECTED	TIME COLLECTED	COMPOSITE	GRAB	SAMPLE IDENTIFIER	MATRIX CODES	NUMBER OF CONTAINERS	601/602 + MTBE	REMARKS	PARADIGM LAB SAMPLE NUMBER
5/27/2021	1528		x	MW 6I	GW	2	X		01
5/27/2021	1505		x	MW 7I		2	X		02
5/27/2021	1520		x	MW 7S		2	X		03
5/27/2021	1607		x	MW 8I		2	X		04
5/27/2021	1450		x	MW 9D		2	X		05
5/27/2021	1540		x	MW 10I (MS/MSD)		6	X		06
5/27/2021	1555		x	MW 11I		2	X		07
5/27/2021	1616		x	MW 15S		2	X		08
5/26/21				Trip Blank J1056	W	1	X		09
								15°C iced started in field	

custody seals N/A client delivered Molly Said 5/27/21

Turnaround Time		Report Supplements			
Availability contingent upon lab approval; additional fees may apply.					
Standard 5 day	☐	None Required	☐	None Required	☐
10 day	☒	Batch QC	☐	Basic EDD	☐
Rush 3 day	☐	Category A	☐	NYSDEC EDD	☒
Rush 2 day	☐	Category B	☒		
Rush 1 day	☐				
Other please indicate date needed:	☐	Other please indicate package needed:	☐	Other EDD please indicate EDD needed:	☐

A. Zobel 5/27/2021 — Sampled By — Date/Time

A. Zobel 5/27/2021 @1652 — Relinquished By — Date/Time

Molly Said 5/27/21 1652 — Received By — Date/Time

Molly Said 5/27/21 1714 — Received @ Lab By — Date/Time

Total Cost:

P.I.F.

By signing this form, client agrees to Paradigm Terms and Conditions (reverse).

See additional page for sample conditions.

PARADIGM

Chain of Custody Supplement

Client: City of Roch **Completed by:** M. Wall

Lab Project ID: 212328 **Date:** 5/27/21

Sample Condition Requirements

Per NELAC/ELAP 210/241/242/243/244

Condition	NELAC compliance with the sample condition requirements upon receipt: Yes	No	N/A
Container Type	☑	☐	☐
Comments			
Transferred to method-compliant container	☐	☐	☑
Headspace (<1 mL)	☑	☐	☐
Comments			
Preservation	☑	☐	☐
Comments			
Chlorine Absent (<0.10 ppm per test strip)	☒	☐	☐
Comments	VOA: Cl⁻ neg.		
Holding Time	☑	☐	☐
Comments			
Temperature	☑	☐	☐
Comments	15°C ice started in field		
Compliant Sample Quantity/Type	☑	☐	☐
Comments			

PARADIGM

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Analytical Report For

City of Rochester

For Lab Project ID

212487

Referencing

RFA Monthly Sampling DEQ-98045

Prepared

Thursday, June 17, 2021

Any noncompliant QC parameters or other notes impacting data interpretation are flagged or documented on the final report or are noted below.

Certifies that this report has been approved by the Technical Director or Designee

179 Lake Avenue • Rochester, NY 14608 • (585) 647-2530 • Fax (585) 647-3311 • ELAP ID# 10958

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 212487

Client: **City of Rochester**

Project Reference: RFA Monthly Sampling DEQ-98045

Sample Identifier:	Effluent		
Lab Sample ID:	212487-01	**Date Sampled:**	6/8/2021
Matrix:	Water	**Date Received:**	6/8/2021

pH

Analyte	Result	Units	Qualifier	Date Analyzed
pH	8.13 @ 23.4 C	S.U.		6/8/2021 10:02

Method Reference(s): SM22 4500 H+ B

ELAP does not offer this test for approval as part of their laboratory certification program.

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed
1,1,1-Trichloroethane	< 2.00	ug/L		6/9/2021 17:40
1,1,2,2-Tetrachloroethane	< 2.00	ug/L		6/9/2021 17:40
1,1,2-Trichloroethane	< 2.00	ug/L		6/9/2021 17:40
1,1-Dichloroethane	**7.63**	ug/L		6/9/2021 17:40
1,1-Dichloroethene	< 2.00	ug/L		6/9/2021 17:40
1,2-Dichlorobenzene	< 2.00	ug/L		6/9/2021 17:40
1,2-Dichloroethane	< 2.00	ug/L		6/9/2021 17:40
1,2-Dichloropropane	< 2.00	ug/L		6/9/2021 17:40
1,3-Dichlorobenzene	< 2.00	ug/L		6/9/2021 17:40
1,4-Dichlorobenzene	< 2.00	ug/L		6/9/2021 17:40
2-Butanone	**21.2**	ug/L		6/9/2021 17:40
2-Chloroethyl vinyl Ether	< 5.00	ug/L		6/9/2021 17:40
4-Methyl-2-pentanone	< 5.00	ug/L		6/9/2021 17:40
Acetone	< 10.0	ug/L		6/9/2021 17:40
Benzene	< 1.00	ug/L		6/9/2021 17:40
Bromodichloromethane	< 2.00	ug/L		6/9/2021 17:40
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Carbon Tetrachloride	< 2.00	ug/L		6/9/2021 17:40
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Chloroform	< 2.00	ug/L		6/9/2021 17:40

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Lab Project ID: 212487

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Project Reference: RFA Monthly Sampling DEQ-98045

Sample Identifier:	Effluent		
Lab Sample ID:	212487-01	**Date Sampled:**	6/8/2021
Matrix:	Water	**Date Received:**	6/8/2021

Chloromethane	< 2.00	ug/L		6/9/2021 17:40
cis-1,3-Dichloropropene	< 2.00	ug/L		6/9/2021 17:40
Dibromochloromethane	< 2.00	ug/L		6/9/2021 17:40
Ethylbenzene	< 2.00	ug/L		6/9/2021 17:40
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Toluene	< 2.00	ug/L		6/9/2021 17:40
trans-1,2-Dichloroethene	< 2.00	ug/L		6/9/2021 17:40
trans-1,3-Dichloropropene	< 2.00	ug/L		6/9/2021 17:40
Trichloroethene	< 2.00	ug/L		6/9/2021 17:40
Vinyl chloride	< 2.00	ug/L		6/9/2021 17:40

Surrogate	**Percent Recovery**	**Limits**	**Outliers**	**Date Analyzed**
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Method Reference(s): EPA 624.1
Data File: z02220.D

Analytical Report Appendix

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"M" = Matrix spike recoveries outside QC limits. Matrix bias indicated.
"B" = Method blank contained trace levels of analyte. Refer to included method blank report.
"J" = Result estimated between the quantitation limit and half the quantitation limit.
"L" = Laboratory Control Sample recovery outside accepted QC limits.
"P" = Concentration differs by more than 40% between the primary and secondary analytical columns.
"NC" = Not calculable. Applicable to RPD if sample or duplicate result is non-detect or estimated (see primary report for data flags). Applicable to MS if sample is greater or equal to ten times the spike added. Applicable to sample surrogates or MS if sample dilution is 10x or higher.
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Limitations of Liability. In the event of any error, omission, or other professional negligence, the sole and exclusive responsibility of LAB shall be to re-perform the deficient work at its own expense and LAB shall have no other liability whatsoever. All claims shall be deemed waived unless made in writing and received by LAB within ninety (90) days following completion of services.
LAB shall have no liability, obligation, or responsibility of any kind for losses, costs, expenses, or other damages (including but not limited to any special, direct, incidental or consequential damages) with respect to LAB's services or results.
All results provided by LAB are strictly for the use of its clients and LAB is in no way responsible for the use of such results by clients or third parties. All reports should be considered in their entirety, and LAB is not responsible for the separation, detachment, or other use of any portion of these reports. Client may not assign the lab report without the written consent of the LAB.
Client covenants and agrees, at its/his/her sole expense, to indemnify, protect, defend, and save harmless the LAB from and against any and all damages, losses, liabilities, obligations, penalties, claims, litigation, demands, defenses, judgments, suits, actions, proceedings, costs, disbursements and/or expenses (including, without limitation attorneys' and experts' fees and disbursements) of any kind whatsoever which may at any time be imposed upon, incurred by or asserted or awarded against client relating to, resulting from or arising out of (a) the breach of this agreement by this client, (b) the negligence of the client in handling, delivering or disclosing any hazardous substance, (c) the violation of the Client of any applicable law, (d) non-compliance by the Client with any environmental permit or (e) a material misrepresentation in disclosing the materials to be tested.

Hazard Disclosure. Client represents and warrants that any sample delivered to LAB will be preceded or accompanied by complete written disclosure of the presence of any hazardous substances known or suspected by Client. Client further warrants that any sample containing any hazardous substance that is to be delivered to LAB will be packaged, labeled, transported, and delivered properly and in accordance with applicable laws.

Sample Handling. Prior to LAB's acceptance of any sample (or after any revocation of acceptance), the entire risk of loss or of damage to such sample remains with Client. Samples are accepted when receipt is acknowledged on chain of custody documentation. In no event will LAB have any responsibility for the action or inaction of any carrier shipping or delivering any sample to or from LAB premises.
Client authorizes LAB to proceed with the analysis of samples as received by the laboratory, recognizing that any samples not in compliance with all current DOH-ELAP-NELAP requirements for containers, preservation or holding time will be noted as such on th final report.
Disposal of hazardous waste samples is the responsibility of the Client. If the Client does not wish such samples returned, LAB may add storage and disposal fees to the final invoice. Maximum storage time for samples is 30 days after completion of analysis unless modified by applicable state or federal laws. Client will be required to give the LAB written instructions concerning disposal of these samples.
LAB reserves the absolute right, exercisable at any time, to refuse to receive delivery of, refuse to accept, or revoke acceptance of any sample, which, in the sole judgment of LAB (a) is of unsuitable volume, (b) may be or become unsuitable for or may pose a risk in handling, transport, or processing for any health, safety, environmental or other reason whether or not due to the presence in the sample of any hazardous substance, and whether or not such presence has been disclosed to LAB by Client or (c) if the condition or sample date make the sample unsuitable for analysis.

Legal Responsibility. LAB is solely responsible for performance of this contract, and no affiliated company, director, officer, employee, or agent shall have any legal responsibility hereunder, whether in contract or tort including negligence.

Assignment. LAB may assign its performance obligations under this contract to other parties, as it deems necessary. LAB shall disclose to Client any assignee (subcontractor) by ELAP ID # on the submitted final report.

Force Majeure. LAB shall have no responsibility or liability to the Client for any failure or delay in performance by LAB, which results in whole or in part from any cause or circumstance beyond the reasonable control of LAB. Such causes and circumstances shall include, but not limited to, acts of God, acts or orders of any government authority, strikes or other labor disputes, natural disasters, accidents, wars, civil disturbances, difficulties or delays in transportation, mail or delivery services, inability to obtain sufficient services or supplies from LAB's usual suppliers, or any other cause beyond LAB's reasonable control.

Law. This contract shall be continued under the laws of the State of New York without regard to its conflicts of laws provision.

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

CHAIN OF CUSTODY

1 of 2

REPORT TO:		INVOICE TO:		LAB PROJECT ID
CLIENT:	City of Rochester	CLIENT:	Day Engineering	212487
ADDRESS:	30 Church Street, Room 300B	ADDRESS:	1563 Lyell Ave	
CITY:	Rochester STATE: NY ZIP: 14614	CITY:	Rochester STATE: NY ZIP: 14606	Quotation #:
PHONE:		PHONE:	(585) 454-0210 (email invoice)	Email: alexandra.zobel@cityofrochester.gov
ATTN:	Alexandra Zobel	ATTN:	Barton Kline (Bkline@daymail.net)	Cc: Dennis.Peck@cityofrochester.gov

PROJECT REFERENCE

RFA Monthly Sampling DEQ-98045
PO#21001332

Matrix Codes:
AQ - Aqueous Liquid; NQ - Non-Aqueous Liquid; WA - Water; WG - Groundwater; DW - Drinking Water; WW - Wastewater; SO - Soil; SL - Sludge; SD - Solid; PT - Paint; WP - Wipe; CK - Caulk; OL - Oil; AR - Air

REQUESTED ANALYSIS

DATE COLLECTED	TIME COLLECTED	COMPOSITE	GRAB	SAMPLE IDENTIFIER	MATRIX CODES	NUMBER OF CONTAINERS	624 Site Specific	pH	REMARKS	PARADIGM LAB SAMPLE NUMBER
6/8/2021	735		X	Effluent	Water	3	X	X	624 Site Specific =VRFA Test Name	01

Turnaround Time		Report Supplements		
Availability contingent upon lab approval; additional fees may apply.				
Standard 5 day	[x]	None Required	[ ]	None Required [ ]
10 day	[x]	Batch QC	[ ]	Basic EDD [ ]
Rush 3 day	[ ]	Category A	[ ]	NYSDEC EDD [ ]
Rush 2 day	[ ]	Category B	[ ]	
Rush 1 day	[ ]			
Other	[ ]	Other	[ ]	Other EDD [ ]
please indicate date needed:		please indicate package needed:		please indicate EDD needed:

Alexandra Zobel 6/8/2021 @735
Sampled By Date/Time

A. Zobel 6/8/2021 @839
Relinquished By Date/Time

C/r 08:40
Received By Date/Time

6/8/21 09:57
Received @ Lab By Date/Time

18°C 6/8/21 08:45

Total Cost:

P.I.F.

By signing this form, client agrees to Paradigm Terms and Conditions (reverse).

See additional page for sample conditions.

PARADIGM

Chain of Custody Supplement

Client: City of Rochester **Completed by:** Glenn Pezzulo

Lab Project ID: 212487 **Date:** 6/8/21

Sample Condition Requirements

Per NELAC/ELAP 210/241/242/243/244

Condition	NELAC compliance with the sample condition requirements upon receipt: Yes	No	N/A
Container Type	X		
Comments			
Transferred to method-compliant container			X
Headspace (<1 mL)	X VOA		X
Comments			
Preservation	X VOA		X
Comments			
Chlorine Absent (<0.10 ppm per test strip)	X		X
Comments	VOA 624: Cl⁻ neg.		
Holding Time	X	X pH	
Comments			
Temperature		X	X pH
Comments	18°C		
Compliant Sample Quantity/Type	X		
Comments			

PARADIGM

PARADIGM
ENVIRONMENTAL SERVICES, INC

Analytical Report For

City of Rochester

For Lab Project ID

213199

Referencing

RFA Monthly Sampling DEQ-98045

Prepared

Monday, July 26, 2021

Any noncompliant QC parameters or other notes impacting data interpretation are flagged or documented on the final report or are noted below.

Certifies that this report has been approved by the Technical Director or Designee

179 Lake Avenue • Rochester, NY 14608 • (585) 647-2530 • Fax (585) 647-3311 • ELAP ID# 10958

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 213199

Client: **City of Rochester**

Project Reference: RFA Monthly Sampling DEQ-98045

Sample Identifier:	Effluent		
Lab Sample ID:	213199-01	**Date Sampled:**	7/19/2021
Matrix:	Water	**Date Received:**	7/19/2021

pH

Analyte	Result	Units	Qualifier	Date Analyzed
pH	8.19 @ 24.1 C	S.U.		7/19/2021 15:24

Method Reference(s): SM22 4500 H+ B

ELAP does not offer this test for approval as part of their laboratory certification program.

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed
1,1,1-Trichloroethane	**48.7**	ug/L		7/23/2021 16:10
1,1,2,2-Tetrachloroethane	< 2.00	ug/L		7/23/2021 16:10
1,1,2-Trichloroethane	< 2.00	ug/L		7/23/2021 16:10
1,1-Dichloroethane	**97.8**	ug/L		7/23/2021 16:10
1,1-Dichloroethene	**2.19**	ug/L		7/23/2021 16:10
1,2-Dichlorobenzene	< 2.00	ug/L		7/23/2021 16:10
1,2-Dichloroethane	< 2.00	ug/L		7/23/2021 16:10
1,2-Dichloropropane	< 2.00	ug/L		7/23/2021 16:10
1,3-Dichlorobenzene	< 2.00	ug/L		7/23/2021 16:10
1,4-Dichlorobenzene	< 2.00	ug/L		7/23/2021 16:10
2-Butanone	**16.6**	ug/L		7/23/2021 16:10
2-Chloroethyl vinyl Ether	< 5.00	ug/L		7/23/2021 16:10
4-Methyl-2-pentanone	< 5.00	ug/L		7/23/2021 16:10
Acetone	< 10.0	ug/L		7/23/2021 16:10
Benzene	< 1.00	ug/L		7/23/2021 16:10
Bromodichloromethane	< 2.00	ug/L		7/23/2021 16:10
Bromoform	< 5.00	ug/L		7/23/2021 16:10
Bromomethane	< 2.00	ug/L		7/23/2021 16:10
Carbon Tetrachloride	< 2.00	ug/L		7/23/2021 16:10
Chlorobenzene	< 2.00	ug/L		7/23/2021 16:10
Chloroethane	**4.90**	ug/L		7/23/2021 16:10
Chloroform	< 2.00	ug/L		7/23/2021 16:10

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 213199

Client: **City of Rochester**

Project Reference: RFA Monthly Sampling DEQ-98045

Sample Identifier:	Effluent		
Lab Sample ID:	213199-01	**Date Sampled:**	7/19/2021
Matrix:	Water	**Date Received:**	7/19/2021

Chloromethane	< 2.00	ug/L		7/23/2021 16:10
cis-1,3-Dichloropropene	< 2.00	ug/L		7/23/2021 16:10
Dibromochloromethane	< 2.00	ug/L		7/23/2021 16:10
Ethylbenzene	< 2.00	ug/L		7/23/2021 16:10
Methylene chloride	< 5.00	ug/L		7/23/2021 16:10
Tetrachloroethene	< 2.00	ug/L		7/23/2021 16:10
Toluene	**2.11**	ug/L		7/23/2021 16:10
trans-1,2-Dichloroethene	< 2.00	ug/L		7/23/2021 16:10
trans-1,3-Dichloropropene	< 2.00	ug/L		7/23/2021 16:10
Trichloroethene	**2.39**	ug/L		7/23/2021 16:10
Vinyl chloride	**7.01**	ug/L		7/23/2021 16:10

Surrogate	**Percent Recovery**	**Limits**	**Outliers**	**Date Analyzed**
1,2-Dichloroethane-d4	**95.5**	83 - 120		7/23/2021 16:10
4-Bromofluorobenzene	**94.3**	65.5 - 118		7/23/2021 16:10
Pentafluorobenzene	**101**	91.2 - 109		7/23/2021 16:10
Toluene-D8	**86.5**	79.7 - 112		7/23/2021 16:10

Method Reference(s): EPA 624.1
Data File: z03166.D

Analytical Report Appendix

The reported results relate only to the samples as they have been received by the laboratory.

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All soil/sludge samples have been reported on a dry weight basis, unless qualified “reported as received”. Other solids are reported as received.

Low level Volatiles blank reports for soil/solid matrix are based on a nominal 5 gram weight. Sample results and reporting limits are based on actual weight, which may be more or less than 5 grams.

The Chain of Custody provides additional information, including compliance with sample condition requirements upon receipt. Sample condition requirements are defined under the 2003 NELAC Standard, sections 5.5.8.3.1 and 5.5.8.3.2.

NYSDOH ELAP does not certify for all parameters. Paradigm Environmental Services or the indicated subcontracted laboratory does hold certification for all analytes where certification is offered by ELAP unless otherwise specified. Aliquots separated for certain tests, such as TCLP, are indicated on the Chain of Custody and final reports with an “A” suffix.

Data qualifiers are used, when necessary, to provide additional information about the data. This information may be communicated as a flag or as text at the bottom of the report. Please refer to the following list of analyte-specific, frequently used data flags and their meaning:

“<” = Analyzed for but not detected at or above the quantitation limit.
“E” = Result has been estimated, calibration limit exceeded.
“Z” = See case narrative.
“D” = Sample, Laboratory Control Sample, or Matrix Spike Duplicate results above Relative Percent Difference limit.
“M” = Matrix spike recoveries outside QC limits. Matrix bias indicated.
“B” = Method blank contained trace levels of analyte. Refer to included method blank report.
“J” = Result estimated between the quantitation limit and half the quantitation limit.
"L" = Laboratory Control Sample recovery outside accepted QC limits.
“P” = Concentration differs by more than 40% between the primary and secondary analytical columns.
"NC" = Not calculable. Applicable to RPD if sample or duplicate result is non-detect or estimated (see primary report for data flags). Applicable to MS if sample is greater or equal to ten times the spike added. Applicable to sample surrogates or MS if sample dilution is 10x or higher.
"" = Indicates any recoveries outside associated acceptance windows. Surrogate outliers in samples are presumed matrix effects. LCS demonstrates method compliance unless otherwise noted.*
"(1)" = Indicates data from primary column used for QC calculation.
"A" = denotes a parameter for which ELAP does not offer approval as part of their laboratory certification program.
"F" = denotes a parameter for which Paradigm does not carry certification, the results for which should therefore only be used where ELAP certification is not required, such as personal exposure assessment.

GENERAL TERMS AND CONDITIONS
LABORATORY SERVICES

These Terms and Conditions embody the whole agreement of the parties in the absence of a signed and executed contract between the Laboratory (LAB) and Client. They shall supersede all previous communications, representations, or agreements, either verbal or written, between the parties. The LAB specifically rejects all additional, inconsistent, or conflicting terms, whether printed or otherwise set forth in any purchase order or other communication from the Client to the LAB. The invalidity or unenforceability in whole or in part of any provision, tern or condition hereof shall not affect in any way the validity or enforceability of the remainder of the Terms and Conditions. No waiver by LAB of any provision, term, or condition hereof or of any breach by or obligation of the Client hereunder shall constitute a waiver of such provision, term, or condition on any other occasion or a waiver of any other breach by or obligation of the Client. This agreement shall be administered and interpreted under the laws of the state which services are procured.

Warranty. Recognizing that the nature of many samples is unknown and that some may contain potentially hazardous components, LAB warrants only that it will perform testing services, obtain findings, and prepare reports in accordance with generally accepted analytical laboratory principles and practices at the time of performance of services. LAB makes no other warranty, express or implied.

Scope and Compensation. LAB agrees to perform the services described in the chain of custody to which these terms and conditions are attached. Unless the parties agree in writing to the contrary, the duties of LAB shall not be construed to exceed the services specifically described. LAB wi use LAB default method for all tests unless specified otherwise on the Work Order.
Payment terms are net 30 days from the date of invoice. All overdue payments are subject to an interest charge of one and one-half percent (1-1/2%) per month or a portion thereof. Client shall also be responsible for costs of collection, including payment of reasonable attorney fees if such expense is incurred. The prices, unless stated, do not include any sale, use or other taxes. Such taxes will be added to invoice prices when required.

Prices. Compensation for services performed will be based on the current Lab Analytical Fee Schedule or on quotations agreed to in writing by the parties. Turnaround time based charges are determined from the time of resolution of all work order questions. Testimony, court appearances or data compilation for legal action will be charged separately. Evaluation and reporting of initial screening runs may incur additional fees.

Limitations of Liability. In the event of any error, omission, or other professional negligence, the sole and exclusive responsibility of LAB shall be to re-perform the deficient work at its own expense and LAB shall have no other liability whatsoever. All claims shall be deemed waived unless made in writing and received by LAB within ninety (90) days following completion of services.
LAB shall have no liability, obligation, or responsibility of any kind for losses, costs, expenses, or other damages (including but not limited to any special, direct, incidental or consequential damages) with respect to LAB's services or results.
All results provided by LAB are strictly for the use of its clients and LAB is in no way responsible for the use of such results by clients or third parties. All reports should be considered in their entirety, and LAB is not responsible for the separation, detachment, or other use of any portion of these reports. Client may not assign the lab report without the written consent of the LAB.
Client covenants and agrees, at its/his/her sole expense, to indemnify, protect, defend, and save harmless the LAB from and against any and all damages, losses, liabilities, obligations, penalties, claims, litigation, demands, defenses, judgments, suits, actions, proceedings, costs, disbursements and/or expenses (including, without limitation attorneys' and experts' fees and disbursements) of any kind whatsoever which may at any time be imposed upon, incurred by or asserted or awarded against client relating to, resulting from or arising out of (a) the breach of this agreement by this client, (b) the negligence of the client in handling, delivering or disclosing any hazardous substance, (c) the violation of the Client of any applicable law, (d) non-compliance by the Client with any environmental permit or (e) a material misrepresentation in disclosing the materials to be tested.

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Legal Responsibility. LAB is solely responsible for performance of this contract, and no affiliated company, director, officer, employee, or agent shall have any legal responsibility hereunder, whether in contract or tort including negligence.

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Law. This contract shall be continued under the laws of the State of New York without regard to its conflicts of laws provision.

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

CHAIN OF CUSTODY

PARADIGM ENVIRONMENTAL SERVICES, INC.

REPORT TO:		INVOICE TO:		LAB PROJECT ID
CLIENT:	City of Rochester	CLIENT:	Day Engineering	213199
ADDRESS:	30 Church Street, Room 300B	ADDRESS:	1563 Lyell Ave	
CITY:	Rochester STATE: NY ZIP: 14614	CITY:	Rochester STATE: NY ZIP: 14606	Quotation #:
PHONE:		PHONE:	(585) 454-0210 (email invoice)	Email: alexandra.zobel@cityofrochester.gov Cc: Dennis.Peck@cityofrochester.gov
ATTN:	Alexandra Zobel	ATTN:	Barton Kline (Bkline@daymail.net)	

PROJECT REFERENCE

RFA Monthly Sampling DEQ-98045
PO#21001332

Matrix Codes:
AQ - Aqueous Liquid; NQ - Non-Aqueous Liquid; WA - Water; WG - Groundwater; DW - Drinking Water; WW - Wastewater; SO - Soil; SL - Sludge; SD - Solid; PT - Paint; WP - Wipe; CK - Caulk; OL - Oil; AR - Air

REQUESTED ANALYSIS

DATE COLLECTED	TIME COLLECTED	COMPOSITE	GRAB	SAMPLE IDENTIFIER	MATRIX CODES	NUMBER OF CONTAINERS	624 Site Specific	pH								REMARKS	PARADIGM LAB SAMPLE NUMBER
7/19/2021	1245		X	Effluent	Water	3	X	X								624 Site Specific =VRFA Test Name	01

Turnaround Time		Report Supplements			
Availability contingent upon lab approval; additional fees may apply.					
Standard 5 day	X	None Required		None Required	
10 day		Batch QC		Basic EDD	
Rush 3 day		Category A		NYSDEC EDD	
Rush 2 day		Category B			
Rush 1 day					
Other		Other		Other EDD	
please indicate date needed:		please indicate package needed:		please indicate EDD needed :	

Alexandra Zobel — Sampled By — 7/19/2021 1245 — Date/Time

A. Zobel — Relinquished By — 7/19/2021 1310 — Date/Time

Emily Farmer — Received By — 7/19/21 1310 — Date/Time

[signature] — Received @ Lab By — 7/19/21 13:34 — Date/Time

Total Cost:

P.I.F.

By signing this form, client agrees to Paradigm Terms and Conditions (reverse).

Iced 16°C 7/19/21 13:20
Started in field

See additional page for sample conditions.

PARADIGM

Chain of Custody Supplement

Client: City of Rochester **Completed by:** Glenn Pezzulo

Lab Project ID: 213199 **Date:** 7/19/21

Sample Condition Requirements

Per NELAC/ELAP 210/241/242/243/244

Condition	NELAC compliance with the sample condition requirements upon receipt: Yes	No	N/A
Container Type	X		
Comments			
Transferred to method-compliant container			X
Headspace (<1 mL)	X VOA		X
Comments			
Preservation	X VOA		X
Comments			
Chlorine Absent (<0.10 ppm per test strip)	X		X
Comments	VOA 624: Cl Neg.		
Holding Time	X	X pH	
Comments			
Temperature	X		X pH
Comments	16 °C iced started in field		
Compliant Sample Quantity/Type	X		
Comments			

179 Lake Avenue • Rochester, NY 14608 • (585) 647-2530 • Fax (585) 647-3311 • ELAP ID# 10958

PARADIGM

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Analytical Report For

City of Rochester

For Lab Project ID

213905

Referencing

RFA Quarterly Sampling

Prepared

Wednesday, September 8, 2021

Any noncompliant QC parameters or other notes impacting data interpretation are flagged or documented on the final report or are noted below.

Certifies that this report has been approved by the Technical Director or Designee

179 Lake Avenue • Rochester, NY 14608 • (585) 647-2530 • Fax (585) 647-3311 • ELAP ID# 10958

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 213905

Client: **City of Rochester**

Project Reference: RFA Quarterly Sampling

Sample Identifier:	Effluent		
Lab Sample ID:	213905-01	**Date Sampled:**	8/30/2021
Matrix:	Water	**Date Received:**	8/30/2021

Metals

Analyte	Result	Units	Qualifier	Date Analyzed
Arsenic	**0.00667**	mg/L		9/2/2021 16:18
Cadmium	< 0.00250	mg/L		9/2/2021 16:18
Chromium	< 0.00500	mg/L		9/2/2021 16:18
Copper	< 0.0100	mg/L		9/2/2021 16:18
Lead	< 0.00500	mg/L		9/2/2021 16:18
Nickel	< 0.0200	mg/L		9/2/2021 16:18
Selenium	< 0.0100	mg/L		9/2/2021 16:18
Zinc	< 0.0300	mg/L		9/2/2021 16:18

Method Reference(s): EPA 200.7 Rev 4.4 (1994)
Preparation Date: 9/1/2021
Data File: 210902B

Chlorinated Pesticides

Analyte	Result	Units	Qualifier	Date Analyzed
4,4-DDD	< 0.201	ug/L		9/7/2021 15:24
4,4-DDE	< 0.201	ug/L		9/7/2021 15:24
4,4-DDT	< 0.302	ug/L		9/7/2021 15:24
Aldrin	< 0.201	ug/L		9/7/2021 15:24
alpha-BHC	< 0.201	ug/L		9/7/2021 15:24
beta-BHC	< 0.201	ug/L		9/7/2021 15:24
cis-Chlordane	< 0.201	ug/L		9/7/2021 15:24
delta-BHC	< 0.201	ug/L		9/7/2021 15:24
Dieldrin	< 0.201	ug/L		9/7/2021 15:24
Endosulfan I	< 0.201	ug/L		9/7/2021 15:24
Endosulfan II	< 0.201	ug/L		9/7/2021 15:24
Endosulfan Sulfate	< 0.201	ug/L		9/7/2021 15:24
Endrin	< 0.201	ug/L		9/7/2021 15:24
Endrin Aldehyde	< 0.302	ug/L		9/7/2021 15:24

Sample Identifier: Effluent
Lab Sample ID: 213905-01 **Date Sampled:** 8/30/2021
Matrix: Water **Date Received:** 8/30/2021

gamma-BHC (Lindane)	< 0.201	ug/L		9/7/2021 15:24
Heptachlor	< 0.201	ug/L		9/7/2021 15:24
Heptachlor Epoxide	< 0.201	ug/L		9/7/2021 15:24
Methoxychlor	< 0.201	ug/L		9/7/2021 15:24
Toxaphene	< 2.01	ug/L		9/7/2021 15:24
trans-Chlordane	< 0.201	ug/L		9/7/2021 15:24

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
Decachlorobiphenyl (1)	**109**	10 - 185		9/7/2021 15:24
Tetrachloro-m-xylene (1)	**108**	20.4 - 124		9/7/2021 15:24

Method Reference(s): EPA 608.3
Preparation Date: 9/3/2021

pH

Analyte	Result	Units	Qualifier	Date Analyzed
pH	7.82 @ 23.5 C	S.U.		8/31/2021 08:53

Method Reference(s): SM22 4500 H+ B

ELAP does not offer this test for approval as part of their laboratory certification program.

Semi-Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed
Diethyl phthalate	< 9.88	ug/L		9/7/2021 19:35

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
2-Fluorobiphenyl	**73.8**	30.9 - 98.1		9/7/2021 19:35
Nitrobenzene-d5	**60.9**	49.6 - 104		9/7/2021 19:35
Terphenyl-d14	**91.3**	56.5 - 118		9/7/2021 19:35

Method Reference(s): EPA 625.1
EPA 3510C
Preparation Date: 9/3/2021
Data File: B56748.D

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed
1,1,1-Trichloroethane	< 2.00	ug/L		9/1/2021 14:29

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 213905

Client: **City of Rochester**

Project Reference: RFA Quarterly Sampling

Sample Identifier:	Effluent		
Lab Sample ID:	213905-01	**Date Sampled:**	8/30/2021
Matrix:	Water	**Date Received:**	8/30/2021

1,1,2,2-Tetrachloroethane	< 2.00	ug/L	9/1/2021 14:29
1,1,2-Trichloroethane	< 2.00	ug/L	9/1/2021 14:29
1,1-Dichloroethane	**4.26**	ug/L	9/1/2021 14:29
1,1-Dichloroethene	< 2.00	ug/L	9/1/2021 14:29
1,2-Dichlorobenzene	< 2.00	ug/L	9/1/2021 14:29
1,2-Dichloroethane	< 2.00	ug/L	9/1/2021 14:29
1,2-Dichloropropane	< 2.00	ug/L	9/1/2021 14:29
1,3-Dichlorobenzene	< 2.00	ug/L	9/1/2021 14:29
1,4-Dichlorobenzene	< 2.00	ug/L	9/1/2021 14:29
2-Butanone	**20.9**	ug/L	9/1/2021 14:29
2-Chloroethyl vinyl Ether	< 5.00	ug/L	9/1/2021 14:29
4-Methyl-2-pentanone	< 5.00	ug/L	9/1/2021 14:29
Acetone	< 10.0	ug/L	9/1/2021 14:29
Benzene	< 1.00	ug/L	9/1/2021 14:29
Bromodichloromethane	< 2.00	ug/L	9/1/2021 14:29
Bromoform	< 5.00	ug/L	9/1/2021 14:29
Bromomethane	< 2.00	ug/L	9/1/2021 14:29
Carbon Tetrachloride	< 2.00	ug/L	9/1/2021 14:29
Chlorobenzene	< 2.00	ug/L	9/1/2021 14:29
Chloroethane	< 2.00	ug/L	9/1/2021 14:29
Chloroform	< 2.00	ug/L	9/1/2021 14:29
Chloromethane	< 2.00	ug/L	9/1/2021 14:29
cis-1,3-Dichloropropene	< 2.00	ug/L	9/1/2021 14:29
Dibromochloromethane	< 2.00	ug/L	9/1/2021 14:29
Ethylbenzene	< 2.00	ug/L	9/1/2021 14:29
Methylene chloride	< 5.00	ug/L	9/1/2021 14:29
Tetrachloroethene	< 2.00	ug/L	9/1/2021 14:29
Toluene	< 2.00	ug/L	9/1/2021 14:29
trans-1,2-Dichloroethene	< 2.00	ug/L	9/1/2021 14:29
trans-1,3-Dichloropropene	< 2.00	ug/L	9/1/2021 14:29

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 213905

Client: **City of Rochester**

Project Reference: RFA Quarterly Sampling

Sample Identifier:	Effluent		
Lab Sample ID:	213905-01	**Date Sampled:**	8/30/2021
Matrix:	Water	**Date Received:**	8/30/2021

Trichloroethene	< 2.00	ug/L			9/1/2021	14:29
Vinyl chloride	< 2.00	ug/L			9/1/2021	14:29

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed	
1,2-Dichloroethane-d4	**124**	83 - 120	*	9/1/2021	14:29
4-Bromofluorobenzene	**109**	65.5 - 118		9/1/2021	14:29
Pentafluorobenzene	**105**	91.2 - 109		9/1/2021	14:29
Toluene-D8	**96.7**	79.7 - 112		9/1/2021	14:29

Method Reference(s): EPA 624.1
Data File: z03868.D

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 213905

Client: **City of Rochester**

Project Reference: RFA Quarterly Sampling

Sample Identifier:	Influent		
Lab Sample ID:	213905-02	**Date Sampled:**	8/30/2021
Matrix:	Water	**Date Received:**	8/30/2021

Chlorinated Pesticides

Analyte	Result	Units	Qualifier	Date Analyzed
4,4-DDD	< 0.206	ug/L		9/7/2021 15:41
4,4-DDE	< 0.206	ug/L		9/7/2021 15:41
4,4-DDT	< 0.309	ug/L		9/7/2021 15:41
Aldrin	< 0.206	ug/L		9/7/2021 15:41
alpha-BHC	< 0.206	ug/L		9/7/2021 15:41
beta-BHC	< 0.206	ug/L		9/7/2021 15:41
cis-Chlordane	< 0.206	ug/L		9/7/2021 15:41
delta-BHC	< 0.206	ug/L		9/7/2021 15:41
Dieldrin	< 0.206	ug/L		9/7/2021 15:41
Endosulfan I	< 0.206	ug/L		9/7/2021 15:41
Endosulfan II	< 0.206	ug/L		9/7/2021 15:41
Endosulfan Sulfate	< 0.206	ug/L		9/7/2021 15:41
Endrin	< 0.206	ug/L		9/7/2021 15:41
Endrin Aldehyde	< 0.309	ug/L		9/7/2021 15:41
gamma-BHC (Lindane)	< 0.206	ug/L		9/7/2021 15:41
Heptachlor	< 0.206	ug/L		9/7/2021 15:41
Heptachlor Epoxide	< 0.206	ug/L		9/7/2021 15:41
Methoxychlor	< 0.206	ug/L		9/7/2021 15:41
Toxaphene	< 2.06	ug/L		9/7/2021 15:41
trans-Chlordane	< 0.206	ug/L		9/7/2021 15:41

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
Decachlorobiphenyl (1)	**80.6**	10 - 185		9/7/2021 15:41
Tetrachloro-m-xylene (1)	**72.1**	20.4 - 124		9/7/2021 15:41

Method Reference(s): EPA 608.3
Preparation Date: 9/3/2021

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 213905

Client: **City of Rochester**

Project Reference: RFA Quarterly Sampling

Sample Identifier:	Influent		
Lab Sample ID:	213905-02	**Date Sampled:**	8/30/2021
Matrix:	Water	**Date Received:**	8/30/2021

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed
1,1,1-Trichloroethane	**684**	ug/L		9/1/2021 14:49
1,1,2,2-Tetrachloroethane	< 200	ug/L		9/1/2021 14:49
1,1,2-Trichloroethane	< 200	ug/L		9/1/2021 14:49
1,1-Dichloroethane	**7350**	ug/L		9/1/2021 14:49
1,1-Dichloroethene	< 200	ug/L		9/1/2021 14:49
1,2-Dichlorobenzene	< 200	ug/L		9/1/2021 14:49
1,2-Dichloroethane	< 200	ug/L		9/1/2021 14:49
1,2-Dichloropropane	< 200	ug/L		9/1/2021 14:49
1,3-Dichlorobenzene	< 200	ug/L		9/1/2021 14:49
1,4-Dichlorobenzene	< 200	ug/L		9/1/2021 14:49
2-Butanone	< 1000	ug/L		9/1/2021 14:49
2-Chloroethyl vinyl Ether	< 500	ug/L		9/1/2021 14:49
4-Methyl-2-pentanone	< 500	ug/L		9/1/2021 14:49
Acetone	< 1000	ug/L		9/1/2021 14:49
Benzene	< 100	ug/L		9/1/2021 14:49
Bromodichloromethane	< 200	ug/L		9/1/2021 14:49
Bromoform	< 500	ug/L		9/1/2021 14:49
Bromomethane	< 200	ug/L		9/1/2021 14:49
Carbon Tetrachloride	< 200	ug/L		9/1/2021 14:49
Chlorobenzene	< 200	ug/L		9/1/2021 14:49
Chloroethane	**305**	ug/L		9/1/2021 14:49
Chloroform	< 200	ug/L		9/1/2021 14:49
Chloromethane	< 200	ug/L		9/1/2021 14:49
cis-1,3-Dichloropropene	< 200	ug/L		9/1/2021 14:49
Dibromochloromethane	< 200	ug/L		9/1/2021 14:49
Ethylbenzene	< 200	ug/L		9/1/2021 14:49
Methylene chloride	< 500	ug/L		9/1/2021 14:49
Tetrachloroethene	< 200	ug/L		9/1/2021 14:49

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 213905

Client: **City of Rochester**

Project Reference: RFA Quarterly Sampling

Sample Identifier:	Influent		
Lab Sample ID:	213905-02	**Date Sampled:**	8/30/2021
Matrix:	Water	**Date Received:**	8/30/2021

Toluene	< 200	ug/L	9/1/2021	14:49
trans-1,2-Dichloroethene	< 200	ug/L	9/1/2021	14:49
trans-1,3-Dichloropropene	< 200	ug/L	9/1/2021	14:49
Trichloroethene	< 200	ug/L	9/1/2021	14:49
Vinyl chloride	**1140**	ug/L	9/1/2021	14:49

Surrogate	**Percent Recovery**	**Limits**	**Outliers**	**Date Analyzed**	
1,2-Dichloroethane-d4	**120**	83 - 120		9/1/2021	14:49
4-Bromofluorobenzene	**100**	65.5 - 118		9/1/2021	14:49
Pentafluorobenzene	**102**	91.2 - 109		9/1/2021	14:49
Toluene-D8	**94.0**	79.7 - 112		9/1/2021	14:49

Method Reference(s): EPA 624.1
Data File: z03869.D

Analytical Report Appendix

The reported results relate only to the samples as they have been received by the laboratory.

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All soil/sludge samples have been reported on a dry weight basis, unless qualified "reported as received". Other solids are reported as received.

Low level Volatiles blank reports for soil/solid matrix are based on a nominal 5 gram weight. Sample results and reporting limits are based on actual weight, which may be more or less than 5 grams.

The Chain of Custody provides additional information, including compliance with sample condition requirements upon receipt. Sample condition requirements are defined under the 2003 NELAC Standard, sections 5.5.8.3.1 and 5.5.8.3.2.

NYSDOH ELAP does not certify for all parameters. Paradigm Environmental Services or the indicated subcontracted laboratory does hold certification for all analytes where certification is offered by ELAP unless otherwise specified. Aliquots separated for certain tests, such as TCLP, are indicated on the Chain of Custody and final reports with an "A" suffix.

Data qualifiers are used, when necessary, to provide additional information about the data. This information may be communicated as a flag or as text at the bottom of the report. Please refer to the following list of analyte-specific, frequently used data flags and their meaning:

"<" = Analyzed for but not detected at or above the quantitation limit.
"E" = Result has been estimated, calibration limit exceeded.
"Z" = See case narrative.
"D" = Sample, Laboratory Control Sample, or Matrix Spike Duplicate results above Relative Percent Difference limit.
"M" = Matrix spike recoveries outside QC limits. Matrix bias indicated.
"B" = Method blank contained trace levels of analyte. Refer to included method blank report.
"J" = Result estimated between the quantitation limit and half the quantitation limit.
"L" = Laboratory Control Sample recovery outside accepted QC limits.
"P" = Concentration differs by more than 40% between the primary and secondary analytical columns.
"NC" = Not calculable. Applicable to RPD if sample or duplicate result is non-detect or estimated (see primary report for data flags). Applicable to MS if sample is greater or equal to ten times the spike added. Applicable to sample surrogates or MS if sample dilution is 10x or higher.
"" = Indicates any recoveries outside associated acceptance windows. Surrogate outliers in samples are presumed matrix effects. LCS demonstrates method compliance unless otherwise noted.*
"(1)" = Indicates data from primary column used for QC calculation.
"A" = denotes a parameter for which ELAP does not offer approval as part of their laboratory certification program.
"F" = denotes a parameter for which Paradigm does not carry certification, the results for which should therefore only be used where ELAP certification is not required, such as personal exposure assessment.

GENERAL TERMS AND CONDITIONS
LABORATORY SERVICES

These Terms and Conditions embody the whole agreement of the parties in the absence of a signed and executed contract between the Laboratory (LAB) and Client. They shall supersede all previous communications, representations, or agreements, either verbal or written, between the parties. The LAB specifically rejects all additional, inconsistent, or conflicting terms, whether printed or otherwise set forth in any purchase order or other communication from the Client to the LAB. The invalidity or unenforceability in whole or in part of any provision, tern or condition hereof shall not affect in any way the validity or enforceability of the remainder of the Terms and Conditions. No waiver by LAB of any provision, term, or condition hereof or of any breach by or obligation of the Client hereunder shall constitute a waiver of such provision, term, or condition on any other occasion or a waiver of any other breach by or obligation of the Client. This agreement shall be administered and interpreted under the laws of the state which services are procured.

Warranty. Recognizing that the nature of many samples is unknown and that some may contain potentially hazardous components, LAB warrants only that it will perform testing services, obtain findings, and prepare reports in accordance with generally accepted analytical laboratory principles and practices at the time of performance of services. LAB makes no other warranty, express or implied.

Scope and Compensation. LAB agrees to perform the services described in the chain of custody to which these terms and conditions are attached. Unless the parties agree in writing to the contrary, the duties of LAB shall not be construed to exceed the services specifically described. LAB wi use LAB default method for all tests unless specified otherwise on the Work Order.
Payment terms are net 30 days from the date of invoice. All overdue payments are subject to an interest charge of one and one-half percent (1-1/2%) per month or a portion thereof. Client shall also be responsible for costs of collection, including payment of reasonable attorney fees if such expense is incurred. The prices, unless stated, do not include any sale, use or other taxes. Such taxes will be added to invoice prices when required.

Prices. Compensation for services performed will be based on the current Lab Analytical Fee Schedule or on quotations agreed to in writing by the parties. Turnaround time based charges are determined from the time of resolution of all work order questions. Testimony, court appearances or data compilation for legal action will be charged separately. Evaluation and reporting of initial screening runs may incur additional fees.

Limitations of Liability. In the event of any error, omission, or other professional negligence, the sole and exclusive responsibility of LAB shall be to re-perform the deficient work at its own expense and LAB shall have no other liability whatsoever. All claims shall be deemed waived unless made in writing and received by LAB within ninety (90) days following completion of services.
LAB shall have no liability, obligation, or responsibility of any kind for losses, costs, expenses, or other damages (including but not limited to any special, direct, incidental or consequential damages) with respect to LAB's services or results.
All results provided by LAB are strictly for the use of its clients and LAB is in no way responsible for the use of such results by clients or third parties. All reports should be considered in their entirety, and LAB is not responsible for the separation, detachment, or other use of any portion of these reports. Client may not assign the lab report without the written consent of the LAB.
Client covenants and agrees, at its/his/her sole expense, to indemnify, protect, defend, and save harmless the LAB from and against any and all damages, losses, liabilities, obligations, penalties, claims, litigation, demands, defenses, judgments, suits, actions, proceedings, costs, disbursements and/or expenses (including, without limitation attorneys' and experts' fees and disbursements) of any kind whatsoever which may at any time be imposed upon, incurred by or asserted or awarded against client relating to, resulting from or arising out of (a) the breach of this agreement by this client, (b) the negligence of the client in handling, delivering or disclosing any hazardous substance, (c) the violation of the Client of any applicable law, (d) non-compliance by the Client with any environmental permit or (e) a material misrepresentation in disclosing the materials to be tested.

Hazard Disclosure. Client represents and warrants that any sample delivered to LAB will be preceded or accompanied by complete written disclosure of the presence of any hazardous substances known or suspected by Client. Client further warrants that any sample containing any hazardous substance that is to be delivered to LAB will be packaged, labeled, transported, and delivered properly and in accordance with applicable laws.

Sample Handling. Prior to LAB's acceptance of any sample (or after any revocation of acceptance), the entire risk of loss or of damage to such sample remains with Client. Samples are accepted when receipt is acknowledged on chain of custody documentation. In no event will LAB have any responsibility for the action or inaction of any carrier shipping or delivering any sample to or from LAB premises.
Client authorizes LAB to proceed with the analysis of samples as received by the laboratory, recognizing that any samples not in compliance with all current DOH-ELAP-NELAP requirements for containers, preservation or holding time will be noted as such on th final report.
Disposal of hazardous waste samples is the responsibility of the Client. If the Client does not wish such samples returned, LAB may add storage and disposal fees to the final invoice. Maximum storage time for samples is 30 days after completion of analysis unless modified by applicable state or federal laws. Client will be required to give the LAB written instructions concerning disposal of these samples.
LAB reserves the absolute right, exercisable at any time, to refuse to receive delivery of, refuse to accept, or revoke acceptance of any sample, which, in the sole judgment of LAB (a) is of unsuitable volume, (b) may be or become unsuitable for or may pose a risk in handling, transport, or processing for any health, safety, environmental or other reason whether or not due to the presence in the sample of any hazardous substance, and whether or not such presence has been disclosed to LAB by Client or (c) if the condition or sample date make the sample unsuitable for analysis.

Legal Responsibility. LAB is solely responsible for performance of this contract, and no affiliated company, director, officer, employee, or agent shall have any legal responsibility hereunder, whether in contract or tort including negligence.

Assignment. LAB may assign its performance obligations under this contract to other parties, as it deems necessary. LAB shall disclose to Client any assignee (subcontractor) by ELAP ID # on the submitted final report.

Force Majeure. LAB shall have no responsibility or liability to the Client for any failure or delay in performance by LAB, which results in whole or in part from any cause or circumstance beyond the reasonable control of LAB. Such causes and circumstances shall include, but not limited to, acts of God, acts or orders of any government authority, strikes or other labor disputes, natural disasters, accidents, wars, civil disturbances, difficulties or delays in transportation, mail or delivery services, inability to obtain sufficient services or supplies from LAB's usual suppliers, or any other cause beyond LAB's reasonable control.

Law. This contract shall be continued under the laws of the State of New York without regard to its conflicts of laws provision.

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

CHAIN OF CUSTODY

1 of 2

PARADIGM ENVIRONMENTAL SERVICES, INC

REPORT TO:		INVOICE TO:		
CLIENT:	City of Rochester	CLIENT:	Day Environmental, Inc.	LAB PROJECT ID: 213905
ADDRESS:	30 Church Street, Room 300B	ADDRESS:	1563 Lyell Ave	
CITY:	Rochester STATE: NY ZIP 14614	CITY:	Rochester STATE: NY ZIP: 14606	Quotation #:
PHONE:	585-428-7094	PHONE:	(585) 454-0210 (email invoice)	Email: alexandra.zobel@cityofrochester.gov
ATTN:	Alexandra Zobel	ATTN:	Barton Kline (Bkline@daymail.net)	

PROJECT REFERENCE

RFA Quarterly Sampling

Matrix Codes:
AQ - Aqueous Liquid; NQ - Non-Aqueous Liquid; WA - Water; WG - Groundwater; DW - Drinking Water; WW - Wastewater; SO - Soil; SL - Sludge; SD - Solid; PT - Paint; WP - Wipe; CK - Caulk; OL - Oil; AR - Air

REQUESTED ANALYSIS

DATE COLLECTED	TIME COLLECTED	COMPOSITE	GRAB	SAMPLE IDENTIFIER	MATRIX CODES	NUMBER OF CONTAINERS	624 Site Specific	625 Site Specific	608 Pesticides	Metals*	pH						REMARKS	PARADIGM LAB SAMPLE NUMBER
8/30/2021	1625		X	Effluent	Water	6	X	X	X	X	X						624 Site Specific =VRFA Test Name	01
8/30/2021	1609		X	Influent	Water	3	X		X								625 Site Specific = SMISC	02
																	SVOA List:	
																	Diethyl phthalate	
																	Metals list:	
																	As, Cd, Cr, Cu, Pb, Ni, Se, Zn	

Turnaround Time		Report Supplements			
Availability contingent upon lab approval; additional fees may apply.					
Standard 5 day	X	None Required		None Required	
10 day		Batch QC		Basic EDD	
Rush 3 day		Category A		NYSDEC EDD	
Rush 2 day		Category B			
Rush 1 day					
Other		Other		Other EDD	
please indicate date needed:		please indicate package needed:		please indicate EDD needed :	

Alexandra Zobel 8/30/2021 @ 1609, 1625
Sampled By — Date/Time

A. Zobel 8/30/2021 @ 1649
Relinquished By — Date/Time

8/30/21 @ 1645
Received By — Date/Time

8/30/21 16:53
Received @ Lab By — Date/Time

9-C 8/30/21 16:51

Total Cost:

P.I.F.

By signing this form, client agrees to Paradigm Terms and Conditions (reverse).

See additional page for sample conditions.

PARADIGM

Chain of Custody Supplement

Client: City of Rochester **Completed by:** Glenn Pezzulo

Lab Project ID: 213905 **Date:** 8/30/21

Sample Condition Requirements

Per NELAC/ELAP 210/241/242/243/244

Condition	NELAC compliance with the sample condition requirements upon receipt — Yes	No	N/A
Container Type	X		
Comments			
Transferred to method-compliant container			X
Headspace (<1 mL)	X VOA		X
Comments			
Preservation	X VOA metals		X
Comments			
Chlorine Absent (<0.10 ppm per test strip)	X 625 SVOA 608 Pest		X
Comments	624 VOA: Cl⁻ neg.		
Holding Time	X	X pH	
Comments			
Temperature		X	X pH metals
Comments	9°C		
Compliant Sample Quantity/Type	X		
Comments			

179 Lake Avenue • Rochester, NY 14608 • (585) 647-2530 • Fax (585) 647-3311 • ELAP ID# 10958

PARADIGM

Analytical Report For

City of Rochester

For Lab Project ID

214406

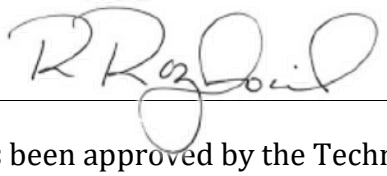
Referencing

RFA Monthly Sampling DEQ-98045

Prepared

Thursday, October 7, 2021

Any noncompliant QC parameters or other notes impacting data interpretation are flagged or documented on the final report or are noted below.



Certifies that this report has been approved by the Technical Director or Designee

179 Lake Avenue • Rochester, NY 14608 • (585) 647-2530 • Fax (585) 647-3311 • ELAP ID# 10958

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 214406

Client: **City of Rochester**

Project Reference: RFA Monthly Sampling DEQ-98045

Sample Identifier:	Effluent		
Lab Sample ID:	214406-01	**Date Sampled:**	9/30/2021
Matrix:	Water	**Date Received:**	9/30/2021

pH

Analyte	Result	Units	Qualifier	Date Analyzed
pH	8.24 @ 20.1 C	S.U.		9/30/2021 12:45

Method Reference(s): SM22 4500 H+ B

ELAP does not offer this test for approval as part of their laboratory certification program.

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed
1,1,1-Trichloroethane	< 2.00	ug/L		10/5/2021 15:01
1,1,2,2-Tetrachloroethane	< 2.00	ug/L		10/5/2021 15:01
1,1,2-Trichloroethane	< 2.00	ug/L		10/5/2021 15:01
1,1-Dichloroethane	**3.61**	ug/L		10/5/2021 15:01
1,1-Dichloroethene	< 2.00	ug/L		10/5/2021 15:01
1,2-Dichlorobenzene	< 2.00	ug/L		10/5/2021 15:01
1,2-Dichloroethane	< 2.00	ug/L		10/5/2021 15:01
1,2-Dichloropropane	< 2.00	ug/L		10/5/2021 15:01
1,3-Dichlorobenzene	< 2.00	ug/L		10/5/2021 15:01
1,4-Dichlorobenzene	< 2.00	ug/L		10/5/2021 15:01
2-Butanone	**10.6**	ug/L		10/5/2021 15:01
2-Chloroethyl vinyl Ether	< 5.00	ug/L		10/5/2021 15:01
4-Methyl-2-pentanone	< 5.00	ug/L		10/5/2021 15:01
Acetone	< 10.0	ug/L		10/5/2021 15:01
Benzene	< 1.00	ug/L		10/5/2021 15:01
Bromodichloromethane	< 2.00	ug/L		10/5/2021 15:01
Bromoform	< 5.00	ug/L		10/5/2021 15:01
Bromomethane	< 2.00	ug/L		10/5/2021 15:01
Carbon Tetrachloride	< 2.00	ug/L		10/5/2021 15:01
Chlorobenzene	< 2.00	ug/L		10/5/2021 15:01
Chloroethane	< 2.00	ug/L		10/5/2021 15:01
Chloroform	< 2.00	ug/L		10/5/2021 15:01

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 214406

Client: **City of Rochester**

Project Reference: RFA Monthly Sampling DEQ-98045

Sample Identifier:	Effluent		
Lab Sample ID:	214406-01	**Date Sampled:**	9/30/2021
Matrix:	Water	**Date Received:**	9/30/2021

Chloromethane	< 2.00	ug/L	10/5/2021	15:01
cis-1,3-Dichloropropene	< 2.00	ug/L	10/5/2021	15:01
Dibromochloromethane	< 2.00	ug/L	10/5/2021	15:01
Ethylbenzene	< 2.00	ug/L	10/5/2021	15:01
Methylene chloride	< 5.00	ug/L	10/5/2021	15:01
Tetrachloroethene	< 2.00	ug/L	10/5/2021	15:01
Toluene	< 2.00	ug/L	10/5/2021	15:01
trans-1,2-Dichloroethene	< 2.00	ug/L	10/5/2021	15:01
trans-1,3-Dichloropropene	< 2.00	ug/L	10/5/2021	15:01
Trichloroethene	< 2.00	ug/L	10/5/2021	15:01
Vinyl chloride	< 2.00	ug/L	10/5/2021	15:01

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed	
1,2-Dichloroethane-d4	**104**	83 - 120		10/5/2021	15:01
4-Bromofluorobenzene	**115**	65.5 - 118		10/5/2021	15:01
Pentafluorobenzene	**101**	91.2 - 109		10/5/2021	15:01
Toluene-D8	**90.7**	79.7 - 112		10/5/2021	15:01

Method Reference(s): EPA 624.1
Data File: z04484.D

Analytical Report Appendix

The reported results relate only to the samples as they have been received by the laboratory.

Each page of this document is part of a multipage report. This document may not be reproduced except in its entirety, without the prior consent of Paradigm Environmental Services, Inc.

All soil/sludge samples have been reported on a dry weight basis, unless qualified "reported as received". Other solids are reported as received.

Low level Volatiles blank reports for soil/solid matrix are based on a nominal 5 gram weight. Sample results and reporting limits are based on actual weight, which may be more or less than 5 grams.

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NYSDOH ELAP does not certify for all parameters. Paradigm Environmental Services or the indicated subcontracted laboratory does hold certification for all analytes where certification is offered by ELAP unless otherwise specified. Aliquots separated for certain tests, such as TCLP, are indicated on the Chain of Custody and final reports with an "A" suffix.

Data qualifiers are used, when necessary, to provide additional information about the data. This information may be communicated as a flag or as text at the bottom of the report. Please refer to the following list of analyte-specific, frequently used data flags and their meaning:

"<" = Analyzed for but not detected at or above the quantitation limit.
"E" = Result has been estimated, calibration limit exceeded.
"Z" = See case narrative.
"D" = Sample, Laboratory Control Sample, or Matrix Spike Duplicate results above Relative Percent Difference limit.
"M" = Matrix spike recoveries outside QC limits. Matrix bias indicated.
"B" = Method blank contained trace levels of analyte. Refer to included method blank report.
"J" = Result estimated between the quantitation limit and half the quantitation limit.
"L" = Laboratory Control Sample recovery outside accepted QC limits.
"P" = Concentration differs by more than 40% between the primary and secondary analytical columns.
"NC" = Not calculable. Applicable to RPD if sample or duplicate result is non-detect or estimated (see primary report for data flags). Applicable to MS if sample is greater or equal to ten times the spike added. Applicable to sample surrogates or MS if sample dilution is 10x or higher.
"" = Indicates any recoveries outside associated acceptance windows. Surrogate outliers in samples are presumed matrix effects. LCS demonstrates method compliance unless otherwise noted.*
"(1)" = Indicates data from primary column used for QC calculation.
"A" = denotes a parameter for which ELAP does not offer approval as part of their laboratory certification program.
"F" = denotes a parameter for which Paradigm does not carry certification, the results for which should therefore only be used where ELAP certification is not required, such as personal exposure assessment.

GENERAL TERMS AND CONDITIONS
LABORATORY SERVICES

These Terms and Conditions embody the whole agreement of the parties in the absence of a signed and executed contract between the Laboratory (LAB) and Client. They shall supersede all previous communications, representations, or agreements, either verbal or written, between the parties. The LAB specifically rejects all additional, inconsistent, or conflicting terms, whether printed or otherwise set forth in any purchase order or other communication from the Client to the LAB. The invalidity or unenforceability in whole or in part of any provision, term or condition hereof shall not affect in any way the validity or enforceability of the remainder of the Terms and Conditions. No waiver by LAB of any provision, term, or condition hereof or of any breach by or obligation of the Client hereunder shall constitute a waiver of such provision, term, or condition on any other occasion or a waiver of any other breach by or obligation of the Client. This agreement shall be administered and interpreted under the laws of the state which services are procured.

Warranty. Recognizing that the nature of many samples is unknown and that some may contain potentially hazardous components, LAB warrants only that it will perform testing services, obtain findings, and prepare reports in accordance with generally accepted analytical laboratory principles and practices at the time of performance of services. LAB makes no other warranty, express or implied.

Scope and Compensation. LAB agrees to perform the services described in the chain of custody to which these terms and conditions are attached. Unless the parties agree in writing to the contrary, the duties of LAB shall not be construed to exceed the services specifically described. LAB wi use LAB default method for all tests unless specified otherwise on the Work Order.
Payment terms are net 30 days from the date of invoice. All overdue payments are subject to an interest charge of one and one-half percent (1-1/2%) per month or a portion thereof. Client shall also be responsible for costs of collection, including payment of reasonable attorney fees if such expense is incurred. The prices, unless stated, do not include any sale, use or other taxes. Such taxes will be added to invoice prices when required.

Prices. Compensation for services performed will be based on the current Lab Analytical Fee Schedule or on quotations agreed to in writing by the parties. Turnaround time based charges are determined from the time of resolution of all work order questions. Testimony, court appearances or data compilation for legal action will be charged separately. Evaluation and reporting of initial screening runs may incur additional fees.

Limitations of Liability. In the event of any error, omission, or other professional negligence, the sole and exclusive responsibility of LAB shall be to re-perform the deficient work at its own expense and LAB shall have no other liability whatsoever. All claims shall be deemed waived unless made in writing and received by LAB within ninety (90) days following completion of services.
LAB shall have no liability, obligation, or responsibility of any kind for losses, costs, expenses, or other damages (including but not limited to any special, direct, incidental or consequential damages) with respect to LAB's services or results.
All results provided by LAB are strictly for the use of its clients and LAB is in no way responsible for the use of such results by clients or third parties. All reports should be considered in their entirety, and LAB is not responsible for the separation, detachment, or other use of any portion of these reports. Client may not assign the lab report without the written consent of the LAB.
Client covenants and agrees, at its/his/her sole expense, to indemnify, protect, defend, and save harmless the LAB from and against any and all damages, losses, liabilities, obligations, penalties, claims, litigation, demands, defenses, judgments, suits, actions, proceedings, costs, disbursements and/or expenses (including, without limitation attorneys' and experts' fees and disbursements) of any kind whatsoever which may at any time be imposed upon, incurred by or asserted or awarded against client relating to, resulting from or arising out of (a) the breach of this agreement by this client, (b) the negligence of the client in handling, delivering or disclosing any hazardous substance, (c) the violation of the Client of any applicable law, (d) non-compliance by the Client with any environmental permit or (e) a material misrepresentation in disclosing the materials to be tested.

Hazard Disclosure. Client represents and warrants that any sample delivered to LAB will be preceded or accompanied by complete written disclosure of the presence of any hazardous substances known or suspected by Client. Client further warrants that any sample containing any hazardous substance that is to be delivered to LAB will be packaged, labeled, transported, and delivered properly and in accordance with applicable laws.

Sample Handling. Prior to LAB's acceptance of any sample (or after any revocation of acceptance), the entire risk of loss or of damage to such sample remains with Client. Samples are accepted when receipt is acknowledged on chain of custody documentation. In no event will LAB have any responsibility for the action or inaction of any carrier shipping or delivering any sample to or from LAB premises.
Client authorizes LAB to proceed with the analysis of samples as received by the laboratory, recognizing that any samples not in compliance with all current DOH-ELAP-NELAP requirements for containers, preservation or holding time will be noted as such on th final report.
Disposal of hazardous waste samples is the responsibility of the Client. If the Client does not wish such samples returned, LAB may add storage and disposal fees to the final invoice. Maximum storage time for samples is 30 days after completion of analysis unless modified by applicable state or federal laws. Client will be required to give the LAB written instructions concerning disposal of these samples.
LAB reserves the absolute right, exercisable at any time, to refuse to receive delivery of, refuse to accept, or revoke acceptance of any sample, which, in the sole judgment of LAB (a) is of unsuitable volume, (b) may be or become unsuitable for or may pose a risk in handling, transport, or processing for any health, safety, environmental or other reason whether or not due to the presence in the sample of any hazardous substance, and whether or not such presence has been disclosed to LAB by Client or (c) if the condition or sample date make the sample unsuitable for analysis.

Legal Responsibility. LAB is solely responsible for performance of this contract, and no affiliated company, director, officer, employee, or agent shall have any legal responsibility hereunder, whether in contract or tort including negligence.

Assignment. LAB may assign its performance obligations under this contract to other parties, as it deems necessary. LAB shall disclose to Client any assignee (subcontractor) by ELAP ID # on the submitted final report.

Force Majeure. LAB shall have no responsibility or liability to the Client for any failure or delay in performance by LAB, which results in whole or in part from any cause or circumstance beyond the reasonable control of LAB. Such causes and circumstances shall include, but not limited to, acts of God, acts or orders of any government authority, strikes or other labor disputes, natural disasters, accidents, wars, civil disturbances, difficulties or delays in transportation, mail or delivery services, inability to obtain sufficient services or supplies from LAB's usual suppliers, or any other cause beyond LAB's reasonable control.

Law. This contract shall be continued under the laws of the State of New York without regard to its conflicts of laws provision.

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

CHAIN OF CUSTODY

PARADIGM ENVIRONMENTAL SERVICES, INC.

REPORT TO:		INVOICE TO:	
COMPANY:	City of Rochester	COMPANY:	Day Environmental, Inc.
ADDRESS:	30 Church Street, Room 300B	ADDRESS:	1563 Lyell Ave
CITY:	Rochester STATE: NY ZIP: 14614	CITY:	Rochester STATE: ZIP:
PHONE:	(585) 428-7094 FAX:	PHONE:	585-454-0210 (email invoice)
ATTN:	Alexandra Zobel	ATTN:	Bart Kline (bkline@daymail.net)

LAB PROJECT ID: 214406

Quotation #:

Email: peckd@cityofrochester.gov
alexandra.zobel@cityofrochester.gov

PROJECT REFERENCE

RFA Monthly Sampling DEQ-98045

Matrix Codes:
AQ - Aqueous Liquid; NQ - Non-Aqueous Liquid; WA - Water; WG - Groundwater; DW - Drinking Water; WW - Wastewater; SO - Soil; SL - Sludge; SD - Solid; PT - Paint; WP - Wipe; CK - Caulk; OL - Oil; AR - Air

REQUESTED ANALYSIS

DATE COLLECTED	TIME COLLECTED	COMPOSITE	GRAB	SAMPLE IDENTIFIER	MATRIX CODES	NUMBER OF CONTAINERS	624 Site Specific	pH									REMARKS	PARADIGM LAB SAMPLE NUMBER
9/30/2021	1100		X	Effluent	WA	3	X	X									624 Site Specific = VRFA Test Name	01

17°C 9/30/21 1209

Turnaround Time		Report Supplements			
Availability contingent upon lab approval; additional fees may apply.					
Standard 5 day	X	None Required	X	None Required	X
10 day		Batch QC		Basic EDD	
Rush 3 day		Category A		NYSDEC EDD	
Rush 2 day		Category B			
Rush 1 day					
Other (please indicate date needed: ____)		Other (please indicate package needed: ____)		Other EDD (please indicate EDD needed ____)	

Alexandra Zobel 9/30/2021 @ 1100
Sampled By — Date/Time

A Zobel 9/30/2021 @ 1201
Relinquished By — Date/Time

Emily Taumen 9/30/21 1200
Received By — Date/Time

Molly Ward 9/30/21 1213
Received @ Lab By — Date/Time

Total Cost:

P.I.F.

By signing this form, client agrees to Paradigm Terms and Conditions (reverse).

See additional page for sample comments.

PARADIGM

Chain of Custody Supplement

Client: City of Rochester **Completed by:** MVP

Lab Project ID: 214906 **Date:** 9/30/21

Sample Condition Requirements

Per NELAC/ELAP 210/241/242/243/244

Condition	NELAC compliance with the sample condition requirements upon receipt: Yes	No	N/A
Container Type	☑	☐	☐
Comments			
Transferred to method-compliant container	☐	☐	☑
Headspace (<1 mL)	☑ VOA	☐	☑ PM
Comments			
Preservation	☑ VOA	☐	☑ PM
Comments			
Chlorine Absent (<0.10 ppm per test strip)	☐	☐	☑ PM
Comments	VOA		
Holding Time	☑	☑ PM	☐
Comments			
Temperature	☐	☑	☑ PM
Comments	17°C		
Compliant Sample Quantity/Type	☑	☐	☐
Comments			

PARADIGM

PARADIGM
ENVIRONMENTAL SERVICES, INC

Analytical Report For

City of Rochester

For Lab Project ID

214875

Referencing

RFA Monthly Sampling DEQ-98045

Prepared

Tuesday, November 2, 2021

Any noncompliant QC parameters or other notes impacting data interpretation are flagged or documented on the final report or are noted below.

Certifies that this report has been approved by the Technical Director or Designee

179 Lake Avenue • Rochester, NY 14608 • (585) 647-2530 • Fax (585) 647-3311 • ELAP ID# 10958

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 214875

Client: **City of Rochester**

Project Reference: RFA Monthly Sampling DEQ-98045

Sample Identifier:	Effluent		
Lab Sample ID:	214875-01	**Date Sampled:**	10/28/2021
Matrix:	Water	**Date Received:**	10/28/2021

pH

Analyte	Result	Units	Qualifier	Date Analyzed
pH	8.27 @ 20.4 C	S.U.		10/28/2021 12:10

Method Reference(s): SM22 4500 H+ B

ELAP does not offer this test for approval as part of their laboratory certification program.

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed
1,1,1-Trichloroethane	< 2.00	ug/L		10/28/2021 19:21
1,1,2,2-Tetrachloroethane	< 2.00	ug/L		10/28/2021 19:21
1,1,2-Trichloroethane	< 2.00	ug/L		10/28/2021 19:21
1,1-Dichloroethane	< 2.00	ug/L		10/28/2021 19:21
1,1-Dichloroethene	< 2.00	ug/L		10/28/2021 19:21
1,2-Dichlorobenzene	< 2.00	ug/L		10/28/2021 19:21
1,2-Dichloroethane	< 2.00	ug/L		10/28/2021 19:21
1,2-Dichloropropane	< 2.00	ug/L		10/28/2021 19:21
1,3-Dichlorobenzene	< 2.00	ug/L		10/28/2021 19:21
1,4-Dichlorobenzene	< 2.00	ug/L		10/28/2021 19:21
2-Butanone	< 10.0	ug/L		10/28/2021 19:21
2-Chloroethyl vinyl Ether	< 5.00	ug/L		10/28/2021 19:21
4-Methyl-2-pentanone	< 5.00	ug/L		10/28/2021 19:21
Acetone	< 10.0	ug/L		10/28/2021 19:21
Benzene	< 1.00	ug/L		10/28/2021 19:21
Bromodichloromethane	< 2.00	ug/L		10/28/2021 19:21
Bromoform	< 5.00	ug/L		10/28/2021 19:21
Bromomethane	< 2.00	ug/L		10/28/2021 19:21
Carbon Tetrachloride	< 2.00	ug/L		10/28/2021 19:21
Chlorobenzene	< 2.00	ug/L		10/28/2021 19:21
Chloroethane	< 2.00	ug/L		10/28/2021 19:21
Chloroform	< 2.00	ug/L		10/28/2021 19:21

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Trichloroethene	< 2.00	ug/L		10/28/2021 19:21
Vinyl chloride	< 2.00	ug/L		10/28/2021 19:21

Surrogate	**Percent Recovery**	**Limits**	**Outliers**	**Date Analyzed**
1,2-Dichloroethane-d4	**107**	77.9 - 132		10/28/2021 19:21
4-Bromofluorobenzene	**109**	62.6 - 133		10/28/2021 19:21
Pentafluorobenzene	**103**	88.9 - 114		10/28/2021 19:21
Toluene-D8	**87.1**	75.6 - 117		10/28/2021 19:21

Method Reference(s): EPA 624.1
Data File: z05108.D

Analytical Report Appendix

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"B" = Method blank contained trace levels of analyte. Refer to included method blank report.
"J" = Result estimated between the quantitation limit and half the quantitation limit.
"L" = Laboratory Control Sample recovery outside accepted QC limits.
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All results provided by LAB are strictly for the use of its clients and LAB is in no way responsible for the use of such results by clients or third parties. All reports should be considered in their entirety, and LAB is not responsible for the separation, detachment, or other use of any portion of these reports. Client may not assign the lab report without the written consent of the LAB.
Client covenants and agrees, at its/his/her sole expense, to indemnify, protect, defend, and save harmless the LAB from and against any and all damages, losses, liabilities, obligations, penalties, claims, litigation, demands, defenses, judgments, suits, actions, proceedings, costs, disbursements and/or expenses (including, without limitation attorneys' and experts' fees and disbursements) of any kind whatsoever which may at any time be imposed upon, incurred by or asserted or awarded against client relating to, resulting from or arising out of (a) the breach of this agreement by this client, (b) the negligence of the client in handling, delivering or disclosing any hazardous substance, (c) the violation of the Client of any applicable law, (d) non-compliance by the Client with any environmental permit or (e) a material misrepresentation in disclosing the materials to be tested.

Hazard Disclosure. Client represents and warrants that any sample delivered to LAB will be preceded or accompanied by complete written disclosure of the presence of any hazardous substances known or suspected by Client. Client further warrants that any sample containing any hazardous substance that is to be delivered to LAB will be packaged, labeled, transported, and delivered properly and in accordance with applicable laws.

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Legal Responsibility. LAB is solely responsible for performance of this contract, and no affiliated company, director, officer, employee, or agent shall have any legal responsibility hereunder, whether in contract or tort including negligence.

Assignment. LAB may assign its performance obligations under this contract to other parties, as it deems necessary. LAB shall disclose to Client any assignee (subcontractor) by ELAP ID # on the submitted final report.

Force Majeure. LAB shall have no responsibility or liability to the Client for any failure or delay in performance by LAB, which results in whole or in part from any cause or circumstance beyond the reasonable control of LAB. Such causes and circumstances shall include, but not limited to, acts of God, acts or orders of any government authority, strikes or other labor disputes, natural disasters, accidents, wars, civil disturbances, difficulties or delays in transportation, mail or delivery services, inability to obtain sufficient services or supplies from LAB's usual suppliers, or any other cause beyond LAB's reasonable control.

Law. This contract shall be continued under the laws of the State of New York without regard to its conflicts of laws provision.

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

CHAIN OF CUSTODY

PARADIGM ENVIRONMENTAL SERVICES, INC.

REPORT TO:		INVOICE TO:		LAB PROJECT ID
COMPANY:	City of Rochester	COMPANY:	Day Environmental, Inc.	214875
ADDRESS:	30 Church Street, Room 300B	ADDRESS:	1563 Lyell Ave	
CITY:	Rochester STATE: NY ZIP: 14614	CITY:	Rochester STATE: ZIP:	Quotation #:
PHONE:	(585) 428-7094 FAX:	PHONE:	585-454-0210 (email invoice)	Email: peckd@cityofrochester.gov
ATTN:	Alexandra Zobel	ATTN:	Bart Kline (bkline@daymail.net)	alexandra.zobel@cityofrochester.gov

PROJECT REFERENCE

RFA Monthly Sampling DEQ-98045

Matrix Codes:

AQ - Aqueous Liquid; NQ - Non-Aqueous Liquid; WA - Water; WG - Groundwater; DW - Drinking Water; WW - Wastewater; SO - Soil; SL - Sludge; SD - Solid; PT - Paint; WP - Wipe; CK - Caulk; OL - Oil; AR - Air

REQUESTED ANALYSIS

DATE COLLECTED	TIME COLLECTED	COMPOSITE	GRAB	SAMPLE IDENTIFIER	MATRIX CODES	NUMBER OF CONTAINERS	624 Site Specific	pH									REMARKS	PARADIGM LAB SAMPLE NUMBER
10/28/2021	1005		X	Effluent	WA	3	X	X									624 Site Specific = VRFA Test Name	01

Turnaround Time		Report Supplements		
Availability contingent upon lab approval; additional fees may apply.				
Standard 5 day	X	None Required	X	None Required X
10 day		Batch QC		Basic EDD
Rush 3 day		Category A		NYSDEC EDD
Rush 2 day		Category B		
Rush 1 day				
Other please indicate date needed:		Other please indicate package needed:		Other EDD please indicate EDD needed

A. Zobel 10/28/2021 @1005
Sampled By Date/Time

A. Zobel 10/28/2021 @1055
Relinquished By Date/Time

10/28/21 1055
Received By Date/Time

10/28/21 10:55
Received @ Lab By Date/Time

12 °C 10/28/21 10:55

Total Cost:

P.I.F.

By signing this form, client agrees to Paradigm Terms and Conditions (reverse).

See additional page for sample conditions.

PARADIGM

Chain of Custody Supplement

Client: City of Rochester **Completed by:** Glenn Pezzulo

Lab Project ID: 214875 **Date:** 10/28/21

Sample Condition Requirements

Per NELAC/ELAP 210/241/242/243/244

Condition	*NELAC compliance with the sample condition requirements upon receipt* Yes	No	N/A
Container Type	X		
Comments			
Transferred to method-compliant container			X
Headspace (<1 mL)	X VOA		X
Comments			
Preservation	X VOA		X
Comments			
Chlorine Absent (<0.10 ppm per test strip)			X
Comments	VOA 624: <2, Cl neg		
Holding Time	X	X pH	
Comments			
Temperature		X	X pH
Comments	12°C		
Compliant Sample Quantity/Type	X		
Comments			

PARADIGM

PARADIGM
ENVIRONMENTAL SERVICES, INC

Analytical Report For

City of Rochester

For Lab Project ID

215369

Referencing

RFA Quarterly Sampling

Prepared

Tuesday, December 7, 2021

Any noncompliant QC parameters or other notes impacting data interpretation are flagged or documented on the final report or are noted below.

K R Hansen

Certifies that this report has been approved by the Technical Director or Designee

179 Lake Avenue • Rochester, NY 14608 • (585) 647-2530 • Fax (585) 647-3311 • ELAP ID# 10958

This report is part of a multipage document and should only be evaluated in its entirety. The Chain of Custody provides additional sample information, including compliance with the sample condition requirements upon receipt.

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 215369

Client: **City of Rochester**

Project Reference: RFA Quarterly Sampling

Sample Identifier:	Effluent		
Lab Sample ID:	215369-01	**Date Sampled:**	11/30/2021
Matrix:	Water	**Date Received:**	11/30/2021

Metals

Analyte	Result	Units	Qualifier	Date Analyzed
Arsenic	< 0.00500	mg/L		12/1/2021 14:43
Cadmium	< 0.00250	mg/L		12/1/2021 14:43
Chromium	< 0.00500	mg/L		12/1/2021 14:43
Copper	< 0.0100	mg/L		12/1/2021 14:43
Lead	< 0.00500	mg/L		12/1/2021 14:43
Nickel	< 0.0200	mg/L		12/1/2021 14:43
Selenium	< 0.0100	mg/L		12/2/2021 14:54
Zinc	< 0.0300	mg/L		12/1/2021 14:43

Method Reference(s): EPA 200.7 Rev 4.4 (1994)
Preparation Date: 11/30/2021
Data File: 211201B

Chlorinated Pesticides

Analyte	Result	Units	Qualifier	Date Analyzed
4,4-DDD	< 0.200	ug/L		12/3/2021 21:00
4,4-DDE	< 0.200	ug/L		12/3/2021 21:00
4,4-DDT	< 0.300	ug/L		12/3/2021 21:00
Aldrin	< 0.200	ug/L		12/3/2021 21:00
alpha-BHC	< 0.200	ug/L		12/3/2021 21:00
beta-BHC	< 0.200	ug/L		12/3/2021 21:00
cis-Chlordane	< 0.200	ug/L		12/3/2021 21:00
delta-BHC	< 0.200	ug/L		12/3/2021 21:00
Dieldrin	< 0.200	ug/L		12/3/2021 21:00
Endosulfan I	< 0.200	ug/L		12/3/2021 21:00
Endosulfan II	< 0.200	ug/L		12/3/2021 21:00
Endosulfan Sulfate	< 0.200	ug/L		12/3/2021 21:00
Endrin	< 0.200	ug/L		12/3/2021 21:00
Endrin Aldehyde	< 0.300	ug/L		12/3/2021 21:00

Sample Identifier: Effluent
Lab Sample ID: 215369-01 **Date Sampled:** 11/30/2021
Matrix: Water **Date Received:** 11/30/2021

gamma-BHC (Lindane)	< 0.200	ug/L		12/3/2021 21:00
Heptachlor	< 0.200	ug/L		12/3/2021 21:00
Heptachlor Epoxide	< 0.200	ug/L		12/3/2021 21:00
Methoxychlor	< 0.200	ug/L		12/3/2021 21:00
Toxaphene	< 2.00	ug/L		12/3/2021 21:00
trans-Chlordane	< 0.200	ug/L		12/3/2021 21:00

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
Decachlorobiphenyl (1)	**70.5**	17 - 148		12/3/2021 21:00
Tetrachloro-m-xylene (1)	**75.6**	18 - 112		12/3/2021 21:00

Method Reference(s): EPA 608.3
Preparation Date: 12/3/2021

pH

Analyte	Result	Units	Qualifier	Date Analyzed
pH	8.35 @ 15.7 C	S.U.		11/30/2021 11:48

Method Reference(s): SM22 4500 H+ B
ELAP does not offer this test for approval as part of their laboratory certification program.

Semi-Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed
Diethyl phthalate	< 9.96	ug/L		12/3/2021 17:39

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
2-Fluorobiphenyl	**81.8**	18.6 - 104		12/3/2021 17:39
Nitrobenzene-d5	**81.7**	51.2 - 99.6		12/3/2021 17:39
Terphenyl-d14	**99.5**	55.6 - 122		12/3/2021 17:39

Method Reference(s): EPA 625.1
EPA 3510C
Preparation Date: 12/3/2021
Data File: B58492.D

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed
1,1,1-Trichloroethane	< 2.00	ug/L		12/2/2021 13:47

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 215369

Client: **City of Rochester**

Project Reference: RFA Quarterly Sampling

Sample Identifier:	Effluent		
Lab Sample ID:	215369-01	**Date Sampled:**	11/30/2021
Matrix:	Water	**Date Received:**	11/30/2021

1,1,2,2-Tetrachloroethane	< 2.00	ug/L	12/2/2021 13:47
1,1,2-Trichloroethane	< 2.00	ug/L	12/2/2021 13:47
1,1-Dichloroethane	**2.97**	ug/L	12/2/2021 13:47
1,1-Dichloroethene	< 2.00	ug/L	12/2/2021 13:47
1,2-Dichlorobenzene	< 2.00	ug/L	12/2/2021 13:47
1,2-Dichloroethane	< 2.00	ug/L	12/2/2021 13:47
1,2-Dichloropropane	< 2.00	ug/L	12/2/2021 13:47
1,3-Dichlorobenzene	< 2.00	ug/L	12/2/2021 13:47
1,4-Dichlorobenzene	< 2.00	ug/L	12/2/2021 13:47
2-Butanone	< 10.0	ug/L	12/2/2021 13:47
2-Chloroethyl vinyl Ether	< 5.00	ug/L	12/2/2021 13:47
4-Methyl-2-pentanone	< 5.00	ug/L	12/2/2021 13:47
Acetone	< 10.0	ug/L	12/2/2021 13:47
Benzene	< 1.00	ug/L	12/2/2021 13:47
Bromodichloromethane	< 2.00	ug/L	12/2/2021 13:47
Bromoform	< 5.00	ug/L	12/2/2021 13:47
Bromomethane	< 2.00	ug/L	12/2/2021 13:47
Carbon Tetrachloride	< 2.00	ug/L	12/2/2021 13:47
Chlorobenzene	< 2.00	ug/L	12/2/2021 13:47
Chloroethane	< 2.00	ug/L	12/2/2021 13:47
Chloroform	< 2.00	ug/L	12/2/2021 13:47
Chloromethane	< 2.00	ug/L	12/2/2021 13:47
cis-1,3-Dichloropropene	< 2.00	ug/L	12/2/2021 13:47
Dibromochloromethane	< 2.00	ug/L	12/2/2021 13:47
Ethylbenzene	< 2.00	ug/L	12/2/2021 13:47
Methylene chloride	< 5.00	ug/L	12/2/2021 13:47
Tetrachloroethene	< 2.00	ug/L	12/2/2021 13:47
Toluene	< 2.00	ug/L	12/2/2021 13:47
trans-1,2-Dichloroethene	< 2.00	ug/L	12/2/2021 13:47
trans-1,3-Dichloropropene	< 2.00	ug/L	12/2/2021 13:47

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 215369

Client: **City of Rochester**

Project Reference: RFA Quarterly Sampling

Sample Identifier:	Effluent		
Lab Sample ID:	215369-01	**Date Sampled:**	11/30/2021
Matrix:	Water	**Date Received:**	11/30/2021

Trichloroethene	< 2.00	ug/L			12/2/2021 13:47
Vinyl chloride	< 2.00	ug/L			12/2/2021 13:47

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
1,2-Dichloroethane-d4	**115**	77.9 - 132		12/2/2021 13:47
4-Bromofluorobenzene	**102**	62.6 - 133		12/2/2021 13:47
Pentafluorobenzene	**110**	88.9 - 114		12/2/2021 13:47
Toluene-D8	**105**	75.6 - 117		12/2/2021 13:47

Method Reference(s): EPA 624.1
Data File: z05797.D

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 215369

Client: **City of Rochester**

Project Reference: RFA Quarterly Sampling

Sample Identifier:	Influent		
Lab Sample ID:	215369-02	**Date Sampled:**	11/30/2021
Matrix:	Water	**Date Received:**	11/30/2021

Chlorinated Pesticides

Analyte	Result	Units	Qualifier	Date Analyzed
4,4-DDD	< 0.200	ug/L		12/3/2021 21:17
4,4-DDE	< 0.200	ug/L		12/3/2021 21:17
4,4-DDT	< 0.300	ug/L		12/3/2021 21:17
Aldrin	< 0.200	ug/L		12/3/2021 21:17
alpha-BHC	< 0.200	ug/L		12/3/2021 21:17
beta-BHC	< 0.200	ug/L		12/3/2021 21:17
cis-Chlordane	< 0.200	ug/L		12/3/2021 21:17
delta-BHC	< 0.200	ug/L		12/3/2021 21:17
Dieldrin	< 0.200	ug/L		12/3/2021 21:17
Endosulfan I	< 0.200	ug/L		12/3/2021 21:17
Endosulfan II	< 0.200	ug/L		12/3/2021 21:17
Endosulfan Sulfate	< 0.200	ug/L		12/3/2021 21:17
Endrin	< 0.200	ug/L		12/3/2021 21:17
Endrin Aldehyde	< 0.300	ug/L		12/3/2021 21:17
gamma-BHC (Lindane)	< 0.200	ug/L		12/3/2021 21:17
Heptachlor	< 0.200	ug/L		12/3/2021 21:17
Heptachlor Epoxide	< 0.200	ug/L		12/3/2021 21:17
Methoxychlor	< 0.200	ug/L		12/3/2021 21:17
Toxaphene	< 2.00	ug/L		12/3/2021 21:17
trans-Chlordane	< 0.200	ug/L		12/3/2021 21:17

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
Decachlorobiphenyl (1)	**64.4**	17 - 148		12/3/2021 21:17
Tetrachloro-m-xylene (1)	**63.3**	18 - 112		12/3/2021 21:17

Method Reference(s): EPA 608.3
Preparation Date: 12/3/2021

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 215369

Client: **City of Rochester**

Project Reference: RFA Quarterly Sampling

Sample Identifier:	Influent		
Lab Sample ID:	215369-02	**Date Sampled:**	11/30/2021
Matrix:	Water	**Date Received:**	11/30/2021

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed
1,1,1-Trichloroethane	**940**	ug/L		12/2/2021 14:06
1,1,2,2-Tetrachloroethane	< 100	ug/L		12/2/2021 14:06
1,1,2-Trichloroethane	< 100	ug/L		12/2/2021 14:06
1,1-Dichloroethane	**6970**	ug/L		12/2/2021 14:06
1,1-Dichloroethene	**198**	ug/L		12/2/2021 14:06
1,2-Dichlorobenzene	< 100	ug/L		12/2/2021 14:06
1,2-Dichloroethane	< 100	ug/L		12/2/2021 14:06
1,2-Dichloropropane	< 100	ug/L		12/2/2021 14:06
1,3-Dichlorobenzene	< 100	ug/L		12/2/2021 14:06
1,4-Dichlorobenzene	< 100	ug/L		12/2/2021 14:06
2-Butanone	< 500	ug/L		12/2/2021 14:06
2-Chloroethyl vinyl Ether	< 250	ug/L		12/2/2021 14:06
4-Methyl-2-pentanone	< 250	ug/L		12/2/2021 14:06
Acetone	< 500	ug/L		12/2/2021 14:06
Benzene	< 50.0	ug/L		12/2/2021 14:06
Bromodichloromethane	< 100	ug/L		12/2/2021 14:06
Bromoform	< 250	ug/L		12/2/2021 14:06
Bromomethane	< 100	ug/L		12/2/2021 14:06
Carbon Tetrachloride	< 100	ug/L		12/2/2021 14:06
Chlorobenzene	< 100	ug/L		12/2/2021 14:06
Chloroethane	**433**	ug/L		12/2/2021 14:06
Chloroform	< 100	ug/L		12/2/2021 14:06
Chloromethane	< 100	ug/L		12/2/2021 14:06
cis-1,3-Dichloropropene	< 100	ug/L		12/2/2021 14:06
Dibromochloromethane	< 100	ug/L		12/2/2021 14:06
Ethylbenzene	< 100	ug/L		12/2/2021 14:06
Methylene chloride	< 250	ug/L		12/2/2021 14:06
Tetrachloroethene	< 100	ug/L		12/2/2021 14:06

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 215369

Client: **City of Rochester**

Project Reference: RFA Quarterly Sampling

Sample Identifier:	Influent		
Lab Sample ID:	215369-02	**Date Sampled:**	11/30/2021
Matrix:	Water	**Date Received:**	11/30/2021

Toluene	< 100	ug/L		12/2/2021 14:06
trans-1,2-Dichloroethene	< 100	ug/L		12/2/2021 14:06
trans-1,3-Dichloropropene	< 100	ug/L		12/2/2021 14:06
Trichloroethene	< 100	ug/L		12/2/2021 14:06
Vinyl chloride	**1390**	ug/L		12/2/2021 14:06

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
1,2-Dichloroethane-d4	**116**	77.9 - 132		12/2/2021 14:06
4-Bromofluorobenzene	**98.9**	62.6 - 133		12/2/2021 14:06
Pentafluorobenzene	**113**	88.9 - 114		12/2/2021 14:06
Toluene-D8	**107**	75.6 - 117		12/2/2021 14:06

Method Reference(s): EPA 624.1
Data File: z05798.D

Analytical Report Appendix

The reported results relate only to the samples as they have been received by the laboratory.

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All soil/sludge samples have been reported on a dry weight basis, unless qualified "reported as received". Other solids are reported as received.

Low level Volatiles blank reports for soil/solid matrix are based on a nominal 5 gram weight. Sample results and reporting limits are based on actual weight, which may be more or less than 5 grams.

The Chain of Custody provides additional information, including compliance with sample condition requirements upon receipt. Sample condition requirements are defined under the 2003 NELAC Standard, sections 5.5.8.3.1 and 5.5.8.3.2.

NYSDOH ELAP does not certify for all parameters. Paradigm Environmental Services or the indicated subcontracted laboratory does hold certification for all analytes where certification is offered by ELAP unless otherwise specified. Aliquots separated for certain tests, such as TCLP, are indicated on the Chain of Custody and final reports with an "A" suffix.

Data qualifiers are used, when necessary, to provide additional information about the data. This information may be communicated as a flag or as text at the bottom of the report. Please refer to the following list of analyte-specific, frequently used data flags and their meaning:

"<" = Analyzed for but not detected at or above the quantitation limit.
"E" = Result has been estimated, calibration limit exceeded.
"Z" = See case narrative.
"D" = Sample, Laboratory Control Sample, or Matrix Spike Duplicate results above Relative Percent Difference limit.
"M" = Matrix spike recoveries outside QC limits. Matrix bias indicated.
"B" = Method blank contained trace levels of analyte. Refer to included method blank report.
"J" = Result estimated between the quantitation limit and half the quantitation limit.
"L" = Laboratory Control Sample recovery outside accepted QC limits.
"P" = Concentration differs by more than 40% between the primary and secondary analytical columns.
"NC" = Not calculable. Applicable to RPD if sample or duplicate result is non-detect or estimated (see primary report for data flags). Applicable to MS if sample is greater or equal to ten times the spike added. Applicable to sample surrogates or MS if sample dilution is 10x or higher.
"" = Indicates any recoveries outside associated acceptance windows. Surrogate outliers in samples are presumed matrix effects. LCS demonstrates method compliance unless otherwise noted.*
"(1)" = Indicates data from primary column used for QC calculation.
"A" = denotes a parameter for which ELAP does not offer approval as part of their laboratory certification program.
"F" = denotes a parameter for which Paradigm does not carry certification, the results for which should therefore only be used where ELAP certification is not required, such as personal exposure assessment.

GENERAL TERMS AND CONDITIONS
LABORATORY SERVICES

These Terms and Conditions embody the whole agreement of the parties in the absence of a signed and executed contract between the Laboratory (LAB) and Client. They shall supersede all previous communications, representations, or agreements, either verbal or written, between the parties. The LAB specifically rejects all additional, inconsistent, or conflicting terms, whether printed or otherwise set forth in any purchase order or other communication from the Client to the LAB. The invalidity or unenforceability in whole or in part of any provision, term or condition hereof shall not affect in any way the validity or enforceability of the remainder of the Terms and Conditions. No waiver by LAB of any provision, term, or condition hereof or of any breach by or obligation of the Client hereunder shall constitute a waiver of such provision, term, or condition on any other occasion or a waiver of any other breach by or obligation of the Client. This agreement shall be administered and interpreted under the laws of the state which services are procured.

Warranty. Recognizing that the nature of many samples is unknown and that some may contain potentially hazardous components, LAB warrants only that it will perform testing services, obtain findings, and prepare reports in accordance with generally accepted analytical laboratory principles and practices at the time of performance of services. LAB makes no other warranty, express or implied.

Scope and Compensation. LAB agrees to perform the services described in the chain of custody to which these terms and conditions are attached. Unless the parties agree in writing to the contrary, the duties of LAB shall not be construed to exceed the services specifically described. LAB wi use LAB default method for all tests unless specified otherwise on the Work Order.
Payment terms are net 30 days from the date of invoice. All overdue payments are subject to an interest charge of one and one-half percent (1-1/2%) per month or a portion thereof. Client shall also be responsible for costs of collection, including payment of reasonable attorney fees if such expense is incurred. The prices, unless stated, do not include any sale, use or other taxes. Such taxes will be added to invoice prices when required.

Prices. Compensation for services performed will be based on the current Lab Analytical Fee Schedule or on quotations agreed to in writing by the parties. Turnaround time based charges are determined from the time of resolution of all work order questions. Testimony, court appearances or data compilation for legal action will be charged separately. Evaluation and reporting of initial screening runs may incur additional fees.

Limitations of Liability. In the event of any error, omission, or other professional negligence, the sole and exclusive responsibility of LAB shall be to re-perform the deficient work at its own expense and LAB shall have no other liability whatsoever. All claims shall be deemed waived unless made in writing and received by LAB within ninety (90) days following completion of services.
LAB shall have no liability, obligation, or responsibility of any kind for losses, costs, expenses, or other damages (including but not limited to any special, direct, incidental or consequential damages) with respect to LAB's services or results.
All results provided by LAB are strictly for the use of its clients and LAB is in no way responsible for the use of such results by clients or third parties. All reports should be considered in their entirety, and LAB is not responsible for the separation, detachment, or other use of any portion of these reports. Client may not assign the lab report without the written consent of the LAB.
Client covenants and agrees, at its/his/her sole expense, to indemnify, protect, defend, and save harmless the LAB from and against any and all damages, losses, liabilities, obligations, penalties, claims, litigation, demands, defenses, judgments, suits, actions, proceedings, costs, disbursements and/or expenses (including, without limitation attorneys' and experts' fees and disbursements) of any kind whatsoever which may at any time be imposed upon, incurred by or asserted or awarded against client relating to, resulting from or arising out of (a) the breach of this agreement by this client, (b) the negligence of the client in handling, delivering or disclosing any hazardous substance, (c) the violation of the Client of any applicable law, (d) non-compliance by the Client with any environmental permit or (e) a material misrepresentation in disclosing the materials to be tested.

Hazard Disclosure. Client represents and warrants that any sample delivered to LAB will be preceded or accompanied by complete written disclosure of the presence of any hazardous substances known or suspected by Client. Client further warrants that any sample containing any hazardous substance that is to be delivered to LAB will be packaged, labeled, transported, and delivered properly and in accordance with applicable laws.

Sample Handling. Prior to LAB's acceptance of any sample (or after any revocation of acceptance), the entire risk of loss or of damage to such sample remains with Client. Samples are accepted when receipt is acknowledged on chain of custody documentation. In no event will LAB have any responsibility for the action or inaction of any carrier shipping or delivering any sample to or from LAB premises.
Client authorizes LAB to proceed with the analysis of samples as received by the laboratory, recognizing that any samples not in compliance with all current DOH-ELAP-NELAP requirements for containers, preservation or holding time will be noted as such on th final report.
Disposal of hazardous waste samples is the responsibility of the Client. If the Client does not wish such samples returned, LAB may add storage and disposal fees to the final invoice. Maximum storage time for samples is 30 days after completion of analysis unless modified by applicable state or federal laws. Client will be required to give the LAB written instructions concerning disposal of these samples.
LAB reserves the absolute right, exercisable at any time, to refuse to receive delivery of, refuse to accept, or revoke acceptance of any sample, which, in the sole judgment of LAB (a) is of unsuitable volume, (b) may be or become unsuitable for or may pose a risk in handling, transport, or processing for any health, safety, environmental or other reason whether or not due to the presence in the sample of any hazardous substance, and whether or not such presence has been disclosed to LAB by Client or (c) if the condition or sample date make the sample unsuitable for analysis.

Legal Responsibility. LAB is solely responsible for performance of this contract, and no affiliated company, director, officer, employee, or agent shall have any legal responsibility hereunder, whether in contract or tort including negligence.

Assignment. LAB may assign its performance obligations under this contract to other parties, as it deems necessary. LAB shall disclose to Client any assignee (subcontractor) by ELAP ID # on the submitted final report.

Force Majeure. LAB shall have no responsibility or liability to the Client for any failure or delay in performance by LAB, which results in whole or in part from any cause or circumstance beyond the reasonable control of LAB. Such causes and circumstances shall include, but not limited to, acts of God, acts or orders of any government authority, strikes or other labor disputes, natural disasters, accidents, wars, civil disturbances, difficulties or delays in transportation, mail or delivery services, inability to obtain sufficient services or supplies from LAB's usual suppliers, or any other cause beyond LAB's reasonable control.

Law. This contract shall be continued under the laws of the State of New York without regard to its conflicts of laws provision.

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

CHAIN OF CUSTODY

1 of 2

PARADIGM ENVIRONMENTAL SERVICES, INC

REPORT TO:		INVOICE TO:		
CLIENT:	City of Rochester	CLIENT:	Day Environmental, Inc.	LAB PROJECT ID: 215369
ADDRESS:	30 Church Street, Room 300B	ADDRESS:	1563 Lyell Ave	
CITY:	Rochester STATE: NY ZIP 14614	CITY:	Rochester STATE: NY ZIP: 14606	Quotation #:
PHONE:	585-428-7094	PHONE:	(585) 454-0210 (email invoice)	Email: alexandra.zobel@cityofrochester.gov
ATTN:	Alexandra Zobel	ATTN:	Barton Kline (Bkline@daymail.net)	

PROJECT REFERENCE

RFA Quarterly Sampling

Matrix Codes:
AQ - Aqueous Liquid; **NQ** - Non-Aqueous Liquid; **WA** - Water; **WG** - Groundwater; **DW** - Drinking Water; **WW** - Wastewater; **SO** - Soil; **SL** - Sludge; **SD** - Solid; **PT** - Paint; **WP** - Wipe; **CK** - Caulk; **OL** - Oil; **AR** - Air

REQUESTED ANALYSIS

DATE COLLECTED	TIME COLLECTED	COMPOSITE	GRAB	SAMPLE IDENTIFIER	MATRIX CODES	NUMBER OF CONTAINERS	624 Site Specific	625 Site Specific	608 Pesticides	Metals*	pH					REMARKS	PARADIGM LAB SAMPLE NUMBER
11/30/2021	10 30		X	Effluent	Water	6	X	X	X	X	X					624 Site Specific =VRFA Test Name	01
11/30/2021	10 15		X	Influent	Water	3	X		X							625 Site Specific = SMISC	02
																SVOA List:	
																Diethyl phthalate	
																Metals list:	
																As, Cd, Cr, Cu, Pb, Ni, Se, Zn	

Turnaround Time		Report Supplements			
Availability contingent upon lab approval; additional fees may apply.					
Standard 5 day	X	None Required	☐	None Required	☐
10 day	☐	Batch QC	☐	Basic EDD	☐
Rush 3 day	☐	Category A	☐	NYSDEC EDD	☐
Rush 2 day	☐	Category B	☐		
Rush 1 day	☐				
Other please indicate date needed:	☐	Other please indicate package needed:	☐	Other EDD please indicate EDD needed :	☐

Alexandra Zobel — Sampled By — 11/30/2021 @ 10 15 & 10 30 — Date/Time

A. Zobel — Relinquished By — 10/30/2021 @ 11 19 — Date/Time

Received By — 11/30/21 1119 — Date/Time

Received @ Lab By — 11/30/21 11:24 — Date/Time

8°C 11/30/21 11:22

Total Cost: ☐

P.I.F. ☐

By signing this form, client agrees to Paradigm Terms and Conditions (reverse).

See additional page for sample conditions.

PARADIGM

Chain of Custody Supplement

Client: City of Rochester **Completed by:** Glenn Pezzulo

Lab Project ID: 215369 **Date:** 11/30/21

Sample Condition Requirements

Per NELAC/ELAP 210/241/242/243/244

Condition	NELAC compliance with the sample condition requirements upon receipt Yes	No	N/A
Container Type	X		
Comments			
Transferred to method-compliant container			X
Headspace (<1 mL)	X VOA		X
Comments			
Preservation	X VOA Metals		X
Comments			
Chlorine Absent (<0.10 ppm per test strip)	X SVOA 625 Pest 608		X
Comments	VOA 624: Cl⁻ neg.		
Holding Time	X	X pH	
Comments			
Temperature		X	X pH Metals
Comments	8°C		
Compliant Sample Quantity/Type	X		
Comments			

PARADIGM

PARADIGM
ENVIRONMENTAL SERVICES, INC

Analytical Report For

City of Rochester

For Lab Project ID

215109

Referencing

Rochester Fire Academy Semiannual Groundwater

Prepared

Wednesday, November 17, 2021

Any noncompliant QC parameters or other notes impacting data interpretation are flagged or documented on the final report or are noted below:

Enclosed is a summary report; the complete ASP package will follow.

KR Hansen

Certifies that this report has been approved by the Technical Director or Designee

179 Lake Avenue • Rochester, NY 14608 • (585) 647-2530 • Fax (585) 647-3311 • ELAP ID# 10958

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 215109

Client: **City of Rochester**

Project Reference: Rochester Fire Academy Semiannual Groundwater

Sample Identifier:	MW 6I		
Lab Sample ID:	215109-01	**Date Sampled:**	11/10/2021
Matrix:	Groundwater	**Date Received:**	11/10/2021

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed
1,1,1-Trichloroethane	< 2.00	ug/L		11/11/2021 16:46
1,1,2,2-Tetrachloroethane	< 2.00	ug/L		11/11/2021 16:46
1,1,2-Trichloroethane	< 2.00	ug/L		11/11/2021 16:46
1,1-Dichloroethane	< 2.00	ug/L		11/11/2021 16:46
1,1-Dichloroethene	< 2.00	ug/L		11/11/2021 16:46
1,2-Dichlorobenzene	< 2.00	ug/L		11/11/2021 16:46
1,2-Dichloroethane	< 2.00	ug/L		11/11/2021 16:46
1,2-Dichloropropane	< 2.00	ug/L		11/11/2021 16:46
1,3-Dichlorobenzene	< 2.00	ug/L		11/11/2021 16:46
1,4-Dichlorobenzene	< 2.00	ug/L		11/11/2021 16:46
2-Chloroethyl vinyl Ether	< 5.00	ug/L		11/11/2021 16:46
Benzene	< 1.00	ug/L		11/11/2021 16:46
Bromodichloromethane	< 2.00	ug/L		11/11/2021 16:46
Bromoform	< 5.00	ug/L		11/11/2021 16:46
Bromomethane	< 2.00	ug/L		11/11/2021 16:46
Carbon Tetrachloride	< 2.00	ug/L		11/11/2021 16:46
Chlorobenzene	< 2.00	ug/L		11/11/2021 16:46
Chloroethane	< 2.00	ug/L		11/11/2021 16:46
Chloroform	< 2.00	ug/L		11/11/2021 16:46
Chloromethane	< 2.00	ug/L		11/11/2021 16:46
cis-1,3-Dichloropropene	< 2.00	ug/L		11/11/2021 16:46
Dibromochloromethane	< 2.00	ug/L		11/11/2021 16:46
Ethylbenzene	< 2.00	ug/L		11/11/2021 16:46
Methyl tert-butyl Ether	< 2.00	ug/L		11/11/2021 16:46
Methylene chloride	< 5.00	ug/L		11/11/2021 16:46
Tetrachloroethene	< 2.00	ug/L		11/11/2021 16:46
Toluene	< 2.00	ug/L		11/11/2021 16:46
trans-1,2-Dichloroethene	< 2.00	ug/L		11/11/2021 16:46

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 215109

Client: **City of Rochester**

Project Reference: Rochester Fire Academy Semiannual Groundwater

Sample Identifier:	MW 6I		
Lab Sample ID:	215109-01	**Date Sampled:**	11/10/2021
Matrix:	Groundwater	**Date Received:**	11/10/2021

trans-1,3-Dichloropropene	< 2.00	ug/L		11/11/2021 16:46
Trichloroethene	< 2.00	ug/L		11/11/2021 16:46
Trichlorofluoromethane	< 2.00	ug/L		11/11/2021 16:46
Vinyl chloride	**3.38**	ug/L		11/11/2021 16:46

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
1,2-Dichloroethane-d4	**111**	77.9 - 132		11/11/2021 16:46
4-Bromofluorobenzene	**95.8**	62.6 - 133		11/11/2021 16:46
Pentafluorobenzene	**113**	88.9 - 114		11/11/2021 16:46
Toluene-D8	**88.2**	75.6 - 117		11/11/2021 16:46

Method Reference(s): EPA 624.1
Data File: z05372.D

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 215109

Client: **City of Rochester**

Project Reference: Rochester Fire Academy Semiannual Groundwater

Sample Identifier:	MW 7I		
Lab Sample ID:	215109-02	**Date Sampled:**	11/10/2021
Matrix:	Groundwater	**Date Received:**	11/10/2021

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed
1,1,1-Trichloroethane	**284**	ug/L		11/11/2021 17:05
1,1,2,2-Tetrachloroethane	< 10.0	ug/L		11/11/2021 17:05
1,1,2-Trichloroethane	< 10.0	ug/L		11/11/2021 17:05
1,1-Dichloroethane	**248**	ug/L		11/11/2021 17:05
1,1-Dichloroethene	**25.9**	ug/L		11/11/2021 17:05
1,2-Dichlorobenzene	< 10.0	ug/L		11/11/2021 17:05
1,2-Dichloroethane	< 10.0	ug/L		11/11/2021 17:05
1,2-Dichloropropane	< 10.0	ug/L		11/11/2021 17:05
1,3-Dichlorobenzene	< 10.0	ug/L		11/11/2021 17:05
1,4-Dichlorobenzene	< 10.0	ug/L		11/11/2021 17:05
2-Chloroethyl vinyl Ether	< 25.0	ug/L		11/11/2021 17:05
Benzene	< 5.00	ug/L		11/11/2021 17:05
Bromodichloromethane	< 10.0	ug/L		11/11/2021 17:05
Bromoform	< 25.0	ug/L		11/11/2021 17:05
Bromomethane	< 10.0	ug/L		11/11/2021 17:05
Carbon Tetrachloride	< 10.0	ug/L		11/11/2021 17:05
Chlorobenzene	< 10.0	ug/L		11/11/2021 17:05
Chloroethane	< 10.0	ug/L		11/11/2021 17:05
Chloroform	< 10.0	ug/L		11/11/2021 17:05
Chloromethane	< 10.0	ug/L		11/11/2021 17:05
cis-1,3-Dichloropropene	< 10.0	ug/L		11/11/2021 17:05
Dibromochloromethane	< 10.0	ug/L		11/11/2021 17:05
Ethylbenzene	< 10.0	ug/L		11/11/2021 17:05
Methyl tert-butyl Ether	< 10.0	ug/L		11/11/2021 17:05
Methylene chloride	< 25.0	ug/L		11/11/2021 17:05
Tetrachloroethene	< 10.0	ug/L		11/11/2021 17:05
Toluene	**7.60**	ug/L	J	11/11/2021 17:05
trans-1,2-Dichloroethene	< 10.0	ug/L		11/11/2021 17:05

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 215109

Client: **City of Rochester**

Project Reference: Rochester Fire Academy Semiannual Groundwater

Sample Identifier:	MW 7I		
Lab Sample ID:	215109-02	**Date Sampled:**	11/10/2021
Matrix:	Groundwater	**Date Received:**	11/10/2021

trans-1,3-Dichloropropene	< 10.0	ug/L		11/11/2021	17:05
Trichloroethene	**7.04**	ug/L	J	11/11/2021	17:05
Trichlorofluoromethane	< 10.0	ug/L		11/11/2021	17:05
Vinyl chloride	**109**	ug/L		11/11/2021	17:05

Surrogate	**Percent Recovery**	**Limits**	**Outliers**	**Date Analyzed**	
1,2-Dichloroethane-d4	**114**	77.9 - 132		11/11/2021	17:05
4-Bromofluorobenzene	**87.0**	62.6 - 133		11/11/2021	17:05
Pentafluorobenzene	**114**	88.9 - 114		11/11/2021	17:05
Toluene-D8	**112**	75.6 - 117		11/11/2021	17:05

Method Reference(s): EPA 624.1
Data File: z05373.D

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 215109

Client: **City of Rochester**

Project Reference: Rochester Fire Academy Semiannual Groundwater

Sample Identifier:	MW 7S		
Lab Sample ID:	215109-03	**Date Sampled:**	11/10/2021
Matrix:	Groundwater	**Date Received:**	11/10/2021

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed
1,1,1-Trichloroethane	**276**	ug/L		11/11/2021 17:25
1,1,2,2-Tetrachloroethane	< 4.00	ug/L		11/11/2021 17:25
1,1,2-Trichloroethane	< 4.00	ug/L		11/11/2021 17:25
1,1-Dichloroethane	**345**	ug/L		11/11/2021 17:25
1,1-Dichloroethene	**3.96**	ug/L	J	11/11/2021 17:25
1,2-Dichlorobenzene	< 4.00	ug/L		11/11/2021 17:25
1,2-Dichloroethane	< 4.00	ug/L		11/11/2021 17:25
1,2-Dichloropropane	< 4.00	ug/L		11/11/2021 17:25
1,3-Dichlorobenzene	< 4.00	ug/L		11/11/2021 17:25
1,4-Dichlorobenzene	< 4.00	ug/L		11/11/2021 17:25
2-Chloroethyl vinyl Ether	< 10.0	ug/L		11/11/2021 17:25
Benzene	< 2.00	ug/L		11/11/2021 17:25
Bromodichloromethane	< 4.00	ug/L		11/11/2021 17:25
Bromoform	< 10.0	ug/L		11/11/2021 17:25
Bromomethane	< 4.00	ug/L		11/11/2021 17:25
Carbon Tetrachloride	< 4.00	ug/L		11/11/2021 17:25
Chlorobenzene	< 4.00	ug/L		11/11/2021 17:25
Chloroethane	**5.11**	ug/L		11/11/2021 17:25
Chloroform	< 4.00	ug/L		11/11/2021 17:25
Chloromethane	< 4.00	ug/L		11/11/2021 17:25
cis-1,3-Dichloropropene	< 4.00	ug/L		11/11/2021 17:25
Dibromochloromethane	< 4.00	ug/L		11/11/2021 17:25
Ethylbenzene	< 4.00	ug/L		11/11/2021 17:25
Methyl tert-butyl Ether	< 4.00	ug/L		11/11/2021 17:25
Methylene chloride	< 10.0	ug/L		11/11/2021 17:25
Tetrachloroethene	**4.18**	ug/L		11/11/2021 17:25
Toluene	< 4.00	ug/L		11/11/2021 17:25
trans-1,2-Dichloroethene	< 4.00	ug/L		11/11/2021 17:25

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 215109

Client: **City of Rochester**

Project Reference: Rochester Fire Academy Semiannual Groundwater

Sample Identifier:	MW 7S		
Lab Sample ID:	215109-03	**Date Sampled:**	11/10/2021
Matrix:	Groundwater	**Date Received:**	11/10/2021

trans-1,3-Dichloropropene	< 4.00	ug/L			11/11/2021 17:25
Trichloroethene	**10.4**	ug/L			11/11/2021 17:25
Trichlorofluoromethane	< 4.00	ug/L			11/11/2021 17:25
Vinyl chloride	< 4.00	ug/L			11/11/2021 17:25

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
1,2-Dichloroethane-d4	**112**	77.9 - 132		11/11/2021 17:25
4-Bromofluorobenzene	**88.5**	62.6 - 133		11/11/2021 17:25
Pentafluorobenzene	**111**	88.9 - 114		11/11/2021 17:25
Toluene-D8	**107**	75.6 - 117		11/11/2021 17:25

Method Reference(s): EPA 624.1
Data File: z05374.D

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 215109

Client: **City of Rochester**

Project Reference: Rochester Fire Academy Semiannual Groundwater

Sample Identifier:	MW 8I		
Lab Sample ID:	215109-04	**Date Sampled:**	11/10/2021
Matrix:	Groundwater	**Date Received:**	11/10/2021

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed
1,1,1-Trichloroethane	< 2.00	ug/L		11/11/2021 17:44
1,1,2,2-Tetrachloroethane	< 2.00	ug/L		11/11/2021 17:44
1,1,2-Trichloroethane	< 2.00	ug/L		11/11/2021 17:44
1,1-Dichloroethane	< 2.00	ug/L		11/11/2021 17:44
1,1-Dichloroethene	< 2.00	ug/L		11/11/2021 17:44
1,2-Dichlorobenzene	< 2.00	ug/L		11/11/2021 17:44
1,2-Dichloroethane	< 2.00	ug/L		11/11/2021 17:44
1,2-Dichloropropane	< 2.00	ug/L		11/11/2021 17:44
1,3-Dichlorobenzene	< 2.00	ug/L		11/11/2021 17:44
1,4-Dichlorobenzene	< 2.00	ug/L		11/11/2021 17:44
2-Chloroethyl vinyl Ether	< 5.00	ug/L		11/11/2021 17:44
Benzene	< 1.00	ug/L		11/11/2021 17:44
Bromodichloromethane	< 2.00	ug/L		11/11/2021 17:44
Bromoform	< 5.00	ug/L		11/11/2021 17:44
Bromomethane	< 2.00	ug/L		11/11/2021 17:44
Carbon Tetrachloride	< 2.00	ug/L		11/11/2021 17:44
Chlorobenzene	< 2.00	ug/L		11/11/2021 17:44
Chloroethane	< 2.00	ug/L		11/11/2021 17:44
Chloroform	< 2.00	ug/L		11/11/2021 17:44
Chloromethane	< 2.00	ug/L		11/11/2021 17:44
cis-1,3-Dichloropropene	< 2.00	ug/L		11/11/2021 17:44
Dibromochloromethane	< 2.00	ug/L		11/11/2021 17:44
Ethylbenzene	< 2.00	ug/L		11/11/2021 17:44
Methyl tert-butyl Ether	< 2.00	ug/L		11/11/2021 17:44
Methylene chloride	< 5.00	ug/L		11/11/2021 17:44
Tetrachloroethene	< 2.00	ug/L		11/11/2021 17:44
Toluene	< 2.00	ug/L		11/11/2021 17:44
trans-1,2-Dichloroethene	< 2.00	ug/L		11/11/2021 17:44

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 215109

Client: **City of Rochester**

Project Reference: Rochester Fire Academy Semiannual Groundwater

Sample Identifier:	MW 8I		
Lab Sample ID:	215109-04	**Date Sampled:**	11/10/2021
Matrix:	Groundwater	**Date Received:**	11/10/2021

trans-1,3-Dichloropropene	< 2.00	ug/L			11/11/2021 17:44
Trichloroethene	< 2.00	ug/L			11/11/2021 17:44
Trichlorofluoromethane	< 2.00	ug/L			11/11/2021 17:44
Vinyl chloride	**14.8**	ug/L			11/11/2021 17:44

Surrogate	**Percent Recovery**	**Limits**	**Outliers**	**Date Analyzed**
1,2-Dichloroethane-d4	**112**	77.9 - 132		11/11/2021 17:44
4-Bromofluorobenzene	**103**	62.6 - 133		11/11/2021 17:44
Pentafluorobenzene	**111**	88.9 - 114		11/11/2021 17:44
Toluene-D8	**98.4**	75.6 - 117		11/11/2021 17:44

Method Reference(s): EPA 624.1
Data File: z05375.D

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 215109

Client: **City of Rochester**

Project Reference: Rochester Fire Academy Semiannual Groundwater

Sample Identifier:	MW 9D		
Lab Sample ID:	215109-05	**Date Sampled:**	11/10/2021
Matrix:	Groundwater	**Date Received:**	11/10/2021

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed
1,1,1-Trichloroethane	< 2.00	ug/L		11/11/2021 18:03
1,1,2,2-Tetrachloroethane	< 2.00	ug/L		11/11/2021 18:03
1,1,2-Trichloroethane	< 2.00	ug/L		11/11/2021 18:03
1,1-Dichloroethane	**3.35**	ug/L		11/11/2021 18:03
1,1-Dichloroethene	< 2.00	ug/L		11/11/2021 18:03
1,2-Dichlorobenzene	< 2.00	ug/L		11/11/2021 18:03
1,2-Dichloroethane	< 2.00	ug/L		11/11/2021 18:03
1,2-Dichloropropane	< 2.00	ug/L		11/11/2021 18:03
1,3-Dichlorobenzene	< 2.00	ug/L		11/11/2021 18:03
1,4-Dichlorobenzene	< 2.00	ug/L		11/11/2021 18:03
2-Chloroethyl vinyl Ether	< 5.00	ug/L		11/11/2021 18:03
Benzene	< 1.00	ug/L		11/11/2021 18:03
Bromodichloromethane	< 2.00	ug/L		11/11/2021 18:03
Bromoform	< 5.00	ug/L		11/11/2021 18:03
Bromomethane	< 2.00	ug/L		11/11/2021 18:03
Carbon Tetrachloride	< 2.00	ug/L		11/11/2021 18:03
Chlorobenzene	< 2.00	ug/L		11/11/2021 18:03
Chloroethane	< 2.00	ug/L		11/11/2021 18:03
Chloroform	< 2.00	ug/L		11/11/2021 18:03
Chloromethane	< 2.00	ug/L		11/11/2021 18:03
cis-1,3-Dichloropropene	< 2.00	ug/L		11/11/2021 18:03
Dibromochloromethane	< 2.00	ug/L		11/11/2021 18:03
Ethylbenzene	< 2.00	ug/L		11/11/2021 18:03
Methyl tert-butyl Ether	< 2.00	ug/L		11/11/2021 18:03
Methylene chloride	< 5.00	ug/L		11/11/2021 18:03
Tetrachloroethene	< 2.00	ug/L		11/11/2021 18:03
Toluene	< 2.00	ug/L		11/11/2021 18:03
trans-1,2-Dichloroethene	< 2.00	ug/L		11/11/2021 18:03

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 215109

Client: **City of Rochester**

Project Reference: Rochester Fire Academy Semiannual Groundwater

Sample Identifier:	MW 9D		
Lab Sample ID:	215109-05	**Date Sampled:**	11/10/2021
Matrix:	Groundwater	**Date Received:**	11/10/2021

trans-1,3-Dichloropropene	< 2.00	ug/L			11/11/2021 18:03
Trichloroethene	< 2.00	ug/L			11/11/2021 18:03
Trichlorofluoromethane	< 2.00	ug/L			11/11/2021 18:03
Vinyl chloride	**5.75**	ug/L			11/11/2021 18:03

Surrogate	**Percent Recovery**	**Limits**	**Outliers**	**Date Analyzed**
1,2-Dichloroethane-d4	**118**	77.9 - 132		11/11/2021 18:03
4-Bromofluorobenzene	**90.4**	62.6 - 133		11/11/2021 18:03
Pentafluorobenzene	**111**	88.9 - 114		11/11/2021 18:03
Toluene-D8	**116**	75.6 - 117		11/11/2021 18:03

Method Reference(s): EPA 624.1
Data File: z05376.D

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 215109

Client: **City of Rochester**

Project Reference: Rochester Fire Academy Semiannual Groundwater

Sample Identifier:	MW 10I		
Lab Sample ID:	215109-06	**Date Sampled:**	11/10/2021
Matrix:	Groundwater	**Date Received:**	11/10/2021

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed
1,1,1-Trichloroethane	< 2.00	ug/L		11/11/2021 19:01
1,1,2,2-Tetrachloroethane	< 2.00	ug/L		11/11/2021 19:01
1,1,2-Trichloroethane	< 2.00	ug/L		11/11/2021 19:01
1,1-Dichloroethane	< 2.00	ug/L		11/11/2021 19:01
1,1-Dichloroethene	< 2.00	ug/L		11/11/2021 19:01
1,2-Dichlorobenzene	< 2.00	ug/L		11/11/2021 19:01
1,2-Dichloroethane	< 2.00	ug/L		11/11/2021 19:01
1,2-Dichloropropane	< 2.00	ug/L		11/11/2021 19:01
1,3-Dichlorobenzene	< 2.00	ug/L		11/11/2021 19:01
1,4-Dichlorobenzene	< 2.00	ug/L		11/11/2021 19:01
2-Chloroethyl vinyl Ether	< 5.00	ug/L		11/11/2021 19:01
Benzene	< 1.00	ug/L		11/11/2021 19:01
Bromodichloromethane	< 2.00	ug/L		11/11/2021 19:01
Bromoform	< 5.00	ug/L		11/11/2021 19:01
Bromomethane	< 2.00	ug/L		11/11/2021 19:01
Carbon Tetrachloride	< 2.00	ug/L		11/11/2021 19:01
Chlorobenzene	< 2.00	ug/L		11/11/2021 19:01
Chloroethane	< 2.00	ug/L		11/11/2021 19:01
Chloroform	< 2.00	ug/L		11/11/2021 19:01
Chloromethane	< 2.00	ug/L		11/11/2021 19:01
cis-1,3-Dichloropropene	< 2.00	ug/L		11/11/2021 19:01
Dibromochloromethane	< 2.00	ug/L		11/11/2021 19:01
Ethylbenzene	< 2.00	ug/L		11/11/2021 19:01
Methyl tert-butyl Ether	**2.53**	ug/L		11/11/2021 19:01
Methylene chloride	< 5.00	ug/L		11/11/2021 19:01
Tetrachloroethene	< 2.00	ug/L		11/11/2021 19:01
Toluene	< 2.00	ug/L		11/11/2021 19:01
trans-1,2-Dichloroethene	< 2.00	ug/L		11/11/2021 19:01

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 215109

Client: **City of Rochester**

Project Reference: Rochester Fire Academy Semiannual Groundwater

Sample Identifier:	MW 10I		
Lab Sample ID:	215109-06	**Date Sampled:**	11/10/2021
Matrix:	Groundwater	**Date Received:**	11/10/2021

trans-1,3-Dichloropropene	< 2.00	ug/L			11/11/2021 19:01
Trichloroethene	< 2.00	ug/L			11/11/2021 19:01
Trichlorofluoromethane	< 2.00	ug/L			11/11/2021 19:01
Vinyl chloride	< 2.00	ug/L			11/11/2021 19:01

Surrogate	**Percent Recovery**	**Limits**	**Outliers**	**Date Analyzed**
1,2-Dichloroethane-d4	**110**	77.9 - 132		11/11/2021 19:01
4-Bromofluorobenzene	**94.4**	62.6 - 133		11/11/2021 19:01
Pentafluorobenzene	**113**	88.9 - 114		11/11/2021 19:01
Toluene-D8	**93.1**	75.6 - 117		11/11/2021 19:01

Method Reference(s): EPA 624.1
Data File: z05379.D

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 215109

Client: **City of Rochester**

Project Reference: Rochester Fire Academy Semiannual Groundwater

Sample Identifier:	MW 11I		
Lab Sample ID:	215109-07	**Date Sampled:**	11/10/2021
Matrix:	Groundwater	**Date Received:**	11/10/2021

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed
1,1,1-Trichloroethane	< 5.00	ug/L		11/11/2021 18:23
1,1,2,2-Tetrachloroethane	< 5.00	ug/L		11/11/2021 18:23
1,1,2-Trichloroethane	< 5.00	ug/L		11/11/2021 18:23
1,1-Dichloroethane	< 5.00	ug/L		11/11/2021 18:23
1,1-Dichloroethene	< 5.00	ug/L		11/11/2021 18:23
1,2-Dichlorobenzene	< 5.00	ug/L		11/11/2021 18:23
1,2-Dichloroethane	**18.0**	ug/L		11/11/2021 18:23
1,2-Dichloropropane	< 5.00	ug/L		11/11/2021 18:23
1,3-Dichlorobenzene	< 5.00	ug/L		11/11/2021 18:23
1,4-Dichlorobenzene	< 5.00	ug/L		11/11/2021 18:23
2-Chloroethyl vinyl Ether	< 12.5	ug/L		11/11/2021 18:23
Benzene	< 2.50	ug/L		11/11/2021 18:23
Bromodichloromethane	< 5.00	ug/L		11/11/2021 18:23
Bromoform	< 12.5	ug/L		11/11/2021 18:23
Bromomethane	< 5.00	ug/L		11/11/2021 18:23
Carbon Tetrachloride	< 5.00	ug/L		11/11/2021 18:23
Chlorobenzene	< 5.00	ug/L		11/11/2021 18:23
Chloroethane	< 5.00	ug/L		11/11/2021 18:23
Chloroform	< 5.00	ug/L		11/11/2021 18:23
Chloromethane	< 5.00	ug/L		11/11/2021 18:23
cis-1,3-Dichloropropene	< 5.00	ug/L		11/11/2021 18:23
Dibromochloromethane	< 5.00	ug/L		11/11/2021 18:23
Ethylbenzene	< 5.00	ug/L		11/11/2021 18:23
Methyl tert-butyl Ether	< 5.00	ug/L		11/11/2021 18:23
Methylene chloride	< 12.5	ug/L		11/11/2021 18:23
Tetrachloroethene	< 5.00	ug/L		11/11/2021 18:23
Toluene	< 5.00	ug/L		11/11/2021 18:23
trans-1,2-Dichloroethene	< 5.00	ug/L		11/11/2021 18:23

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 215109

Client: **City of Rochester**

Project Reference: Rochester Fire Academy Semiannual Groundwater

Sample Identifier:	MW 11I		
Lab Sample ID:	215109-07	**Date Sampled:**	11/10/2021
Matrix:	Groundwater	**Date Received:**	11/10/2021

trans-1,3-Dichloropropene	< 5.00	ug/L			11/11/2021 18:23
Trichloroethene	< 5.00	ug/L			11/11/2021 18:23
Trichlorofluoromethane	< 5.00	ug/L			11/11/2021 18:23
Vinyl chloride	**233**	ug/L			11/11/2021 18:23

Surrogate	**Percent Recovery**	**Limits**	**Outliers**	**Date Analyzed**
1,2-Dichloroethane-d4	**118**	77.9 - 132		11/11/2021 18:23
4-Bromofluorobenzene	**96.9**	62.6 - 133		11/11/2021 18:23
Pentafluorobenzene	**120**	88.9 - 114	*	11/11/2021 18:23
Toluene-D8	**110**	75.6 - 117		11/11/2021 18:23

Method Reference(s): EPA 624.1
Data File: z05377.D

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 215109

Client: **City of Rochester**

Project Reference: Rochester Fire Academy Semiannual Groundwater

Sample Identifier:	MW 15S		
Lab Sample ID:	215109-08	**Date Sampled:**	11/10/2021
Matrix:	Groundwater	**Date Received:**	11/10/2021

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed
1,1,1-Trichloroethane	< 2.00	ug/L		11/11/2021 18:42
1,1,2,2-Tetrachloroethane	< 2.00	ug/L		11/11/2021 18:42
1,1,2-Trichloroethane	< 2.00	ug/L		11/11/2021 18:42
1,1-Dichloroethane	< 2.00	ug/L		11/11/2021 18:42
1,1-Dichloroethene	< 2.00	ug/L		11/11/2021 18:42
1,2-Dichlorobenzene	< 2.00	ug/L		11/11/2021 18:42
1,2-Dichloroethane	< 2.00	ug/L		11/11/2021 18:42
1,2-Dichloropropane	< 2.00	ug/L		11/11/2021 18:42
1,3-Dichlorobenzene	< 2.00	ug/L		11/11/2021 18:42
1,4-Dichlorobenzene	< 2.00	ug/L		11/11/2021 18:42
2-Chloroethyl vinyl Ether	< 5.00	ug/L		11/11/2021 18:42
Benzene	< 1.00	ug/L		11/11/2021 18:42
Bromodichloromethane	< 2.00	ug/L		11/11/2021 18:42
Bromoform	< 5.00	ug/L		11/11/2021 18:42
Bromomethane	< 2.00	ug/L		11/11/2021 18:42
Carbon Tetrachloride	< 2.00	ug/L		11/11/2021 18:42
Chlorobenzene	< 2.00	ug/L		11/11/2021 18:42
Chloroethane	< 2.00	ug/L		11/11/2021 18:42
Chloroform	< 2.00	ug/L		11/11/2021 18:42
Chloromethane	< 2.00	ug/L		11/11/2021 18:42
cis-1,3-Dichloropropene	< 2.00	ug/L		11/11/2021 18:42
Dibromochloromethane	< 2.00	ug/L		11/11/2021 18:42
Ethylbenzene	< 2.00	ug/L		11/11/2021 18:42
Methyl tert-butyl Ether	< 2.00	ug/L		11/11/2021 18:42
Methylene chloride	< 5.00	ug/L		11/11/2021 18:42
Tetrachloroethene	< 2.00	ug/L		11/11/2021 18:42
Toluene	< 2.00	ug/L		11/11/2021 18:42
trans-1,2-Dichloroethene	< 2.00	ug/L		11/11/2021 18:42

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 215109

Client: **City of Rochester**

Project Reference: Rochester Fire Academy Semiannual Groundwater

Sample Identifier:	MW 15S		
Lab Sample ID:	215109-08	**Date Sampled:**	11/10/2021
Matrix:	Groundwater	**Date Received:**	11/10/2021

trans-1,3-Dichloropropene	< 2.00	ug/L			11/11/2021 18:42
Trichloroethene	< 2.00	ug/L			11/11/2021 18:42
Trichlorofluoromethane	< 2.00	ug/L			11/11/2021 18:42
Vinyl chloride	< 2.00	ug/L			11/11/2021 18:42

Surrogate	**Percent Recovery**	**Limits**	**Outliers**	**Date Analyzed**
1,2-Dichloroethane-d4	**114**	77.9 - 132		11/11/2021 18:42
4-Bromofluorobenzene	**104**	62.6 - 133		11/11/2021 18:42
Pentafluorobenzene	**112**	88.9 - 114		11/11/2021 18:42
Toluene-D8	**102**	75.6 - 117		11/11/2021 18:42

Method Reference(s): EPA 624.1
Data File: z05378.D

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 215109

Client: **City of Rochester**

Project Reference: Rochester Fire Academy Semiannual Groundwater

Sample Identifier:	Trip Blank T1083		
Lab Sample ID:	215109-09	**Date Sampled:**	11/9/2021
Matrix:	Water	**Date Received:**	11/10/2021

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed
1,1,1-Trichloroethane	< 2.00	ug/L		11/11/2021 16:27
1,1,2,2-Tetrachloroethane	< 2.00	ug/L		11/11/2021 16:27
1,1,2-Trichloroethane	< 2.00	ug/L		11/11/2021 16:27
1,1-Dichloroethane	< 2.00	ug/L		11/11/2021 16:27
1,1-Dichloroethene	< 2.00	ug/L		11/11/2021 16:27
1,2-Dichlorobenzene	< 2.00	ug/L		11/11/2021 16:27
1,2-Dichloroethane	< 2.00	ug/L		11/11/2021 16:27
1,2-Dichloropropane	< 2.00	ug/L		11/11/2021 16:27
1,3-Dichlorobenzene	< 2.00	ug/L		11/11/2021 16:27
1,4-Dichlorobenzene	< 2.00	ug/L		11/11/2021 16:27
2-Chloroethyl vinyl Ether	< 5.00	ug/L		11/11/2021 16:27
Benzene	< 1.00	ug/L		11/11/2021 16:27
Bromodichloromethane	< 2.00	ug/L		11/11/2021 16:27
Bromoform	< 5.00	ug/L		11/11/2021 16:27
Bromomethane	< 2.00	ug/L		11/11/2021 16:27
Carbon Tetrachloride	< 2.00	ug/L		11/11/2021 16:27
Chlorobenzene	< 2.00	ug/L		11/11/2021 16:27
Chloroethane	< 2.00	ug/L		11/11/2021 16:27
Chloroform	< 2.00	ug/L		11/11/2021 16:27
Chloromethane	< 2.00	ug/L		11/11/2021 16:27
cis-1,3-Dichloropropene	< 2.00	ug/L		11/11/2021 16:27
Dibromochloromethane	< 2.00	ug/L		11/11/2021 16:27
Ethylbenzene	< 2.00	ug/L		11/11/2021 16:27
Methyl tert-butyl Ether	< 2.00	ug/L		11/11/2021 16:27
Methylene chloride	< 5.00	ug/L		11/11/2021 16:27
Tetrachloroethene	< 2.00	ug/L		11/11/2021 16:27
Toluene	< 2.00	ug/L		11/11/2021 16:27
trans-1,2-Dichloroethene	< 2.00	ug/L		11/11/2021 16:27

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 215109

Client: **City of Rochester**

Project Reference: Rochester Fire Academy Semiannual Groundwater

Sample Identifier:	Trip Blank T1083		
Lab Sample ID:	215109-09	**Date Sampled:**	11/9/2021
Matrix:	Water	**Date Received:**	11/10/2021

trans-1,3-Dichloropropene	< 2.00	ug/L			11/11/2021 16:27
Trichloroethene	< 2.00	ug/L			11/11/2021 16:27
Trichlorofluoromethane	< 2.00	ug/L			11/11/2021 16:27
Vinyl chloride	< 2.00	ug/L			11/11/2021 16:27

Surrogate	**Percent Recovery**	**Limits**	**Outliers**	**Date Analyzed**
1,2-Dichloroethane-d4	**111**	77.9 - 132		11/11/2021 16:27
4-Bromofluorobenzene	**95.0**	62.6 - 133		11/11/2021 16:27
Pentafluorobenzene	**114**	88.9 - 114		11/11/2021 16:27
Toluene-D8	**96.9**	75.6 - 117		11/11/2021 16:27

Method Reference(s): EPA 624.1
Data File: z05371.D

Analytical Report Appendix

The reported results relate only to the samples as they have been received by the laboratory.

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All soil/sludge samples have been reported on a dry weight basis, unless qualified "reported as received". Other solids are reported as received.

Low level Volatiles blank reports for soil/solid matrix are based on a nominal 5 gram weight. Sample results and reporting limits are based on actual weight, which may be more or less than 5 grams.

The Chain of Custody provides additional information, including compliance with sample condition requirements upon receipt. Sample condition requirements are defined under the 2003 NELAC Standard, sections 5.5.8.3.1 and 5.5.8.3.2.

NYSDOH ELAP does not certify for all parameters. Paradigm Environmental Services or the indicated subcontracted laboratory does hold certification for all analytes where certification is offered by ELAP unless otherwise specified. Aliquots separated for certain tests, such as TCLP, are indicated on the Chain of Custody and final reports with an "A" suffix.

Data qualifiers are used, when necessary, to provide additional information about the data. This information may be communicated as a flag or as text at the bottom of the report. Please refer to the following list of analyte-specific, frequently used data flags and their meaning:

"<" = Analyzed for but not detected at or above the quantitation limit.
"E" = Result has been estimated, calibration limit exceeded.
"Z" = See case narrative.
"D" = Sample, Laboratory Control Sample, or Matrix Spike Duplicate results above Relative Percent Difference limit.
"M" = Matrix spike recoveries outside QC limits. Matrix bias indicated.
"B" = Method blank contained trace levels of analyte. Refer to included method blank report.
"J" = Result estimated between the quantitation limit and half the quantitation limit.
"L" = Laboratory Control Sample recovery outside accepted QC limits.
"P" = Concentration differs by more than 40% between the primary and secondary analytical columns.
"NC" = Not calculable. Applicable to RPD if sample or duplicate result is non-detect or estimated (see primary report for data flags). Applicable to MS if sample is greater or equal to ten times the spike added. Applicable to sample surrogates or MS if sample dilution is 10x or higher.
"" = Indicates any recoveries outside associated acceptance windows. Surrogate outliers in samples are presumed matrix effects. LCS demonstrates method compliance unless otherwise noted.*
"(1)" = Indicates data from primary column used for QC calculation.
"A" = denotes a parameter for which ELAP does not offer approval as part of their laboratory certification program.
"F" = denotes a parameter for which Paradigm does not carry certification, the results for which should therefore only be used where ELAP certification is not required, such as personal exposure assessment.

GENERAL TERMS AND CONDITIONS
LABORATORY SERVICES

These Terms and Conditions embody the whole agreement of the parties in the absence of a signed and executed contract between the Laboratory (LAB) and Client. They shall supersede all previous communications, representations, or agreements, either verbal or written, between the parties. The LAB specifically rejects all additional, inconsistent, or conflicting terms, whether printed or otherwise set forth in any purchase order or other communication from the Client to the LAB. The invalidity or unenforceability in whole or in part of any provision, tern or condition hereof shall not affect in any way the validity or enforceability of the remainder of the Terms and Conditions. No waiver by LAB of any provision, term, or condition hereof or of any breach by or obligation of the Client hereunder shall constitute a waiver of such provision, term, or condition on any other occasion or a waiver of any other breach by or obligation of the Client. This agreement shall be administered and interpreted under the laws of the state which services are procured.

Warranty. Recognizing that the nature of many samples is unknown and that some may contain potentially hazardous components, LAB warrants only that it will perform testing services, obtain findings, and prepare reports in accordance with generally accepted analytical laboratory principles and practices at the time of performance of services. LAB makes no other warranty, express or implied.

Scope and Compensation. LAB agrees to perform the services described in the chain of custody to which these terms and conditions are attached. Unless the parties agree in writing to the contrary, the duties of LAB shall not be construed to exceed the services specifically described. LAB wi use LAB default method for all tests unless specified otherwise on the Work Order.
Payment terms are net 30 days from the date of invoice. All overdue payments are subject to an interest charge of one and one-half percent (1-1/2%) per month or a portion thereof. Client shall also be responsible for costs of collection, including payment of reasonable attorney fees if such expense is incurred. The prices, unless stated, do not include any sale, use or other taxes. Such taxes will be added to invoice prices when required.

Prices. Compensation for services performed will be based on the current Lab Analytical Fee Schedule or on quotations agreed to in writing by the parties. Turnaround time based charges are determined from the time of resolution of all work order questions. Testimony, court appearances or data compilation for legal action will be charged separately. Evaluation and reporting of initial screening runs may incur additional fees.

Limitations of Liability. In the event of any error, omission, or other professional negligence, the sole and exclusive responsibility of LAB shall be to re-perform the deficient work at its own expense and LAB shall have no other liability whatsoever. All claims shall be deemed waived unless made in writing and received by LAB within ninety (90) days following completion of services.
LAB shall have no liability, obligation, or responsibility of any kind for losses, costs, expenses, or other damages (including but not limited to any special, direct, incidental or consequential damages) with respect to LAB's services or results.
All results provided by LAB are strictly for the use of its clients and LAB is in no way responsible for the use of such results by clients or third parties. All reports should be considered in their entirety, and LAB is not responsible for the separation, detachment, or other use of any portion of these reports. Client may not assign the lab report without the written consent of the LAB.
Client covenants and agrees, at its/his/her sole expense, to indemnify, protect, defend, and save harmless the LAB from and against any and all damages, losses, liabilities, obligations, penalties, claims, litigation, demands, defenses, judgments, suits, actions, proceedings, costs, disbursements and/or expenses (including, without limitation attorneys' and experts' fees and disbursements) of any kind whatsoever which may at any time be imposed upon, incurred by or asserted or awarded against client relating to, resulting from or arising out of (a) the breach of this agreement by this client, (b) the negligence of the client in handling, delivering or disclosing any hazardous substance, (c) the violation of the Client of any applicable law, (d) non-compliance by the Client with any environmental permit or (e) a material misrepresentation in disclosing the materials to be tested.

Hazard Disclosure. Client represents and warrants that any sample delivered to LAB will be preceded or accompanied by complete written disclosure of the presence of any hazardous substances known or suspected by Client. Client further warrants that any sample containing any hazardous substance that is to be delivered to LAB will be packaged, labeled, transported, and delivered properly and in accordance with applicable laws.

Sample Handling. Prior to LAB's acceptance of any sample (or after any revocation of acceptance), the entire risk of loss or of damage to such sample remains with Client. Samples are accepted when receipt is acknowledged on chain of custody documentation. In no event will LAB have any responsibility for the action or inaction of any carrier shipping or delivering any sample to or from LAB premises.
Client authorizes LAB to proceed with the analysis of samples as received by the laboratory, recognizing that any samples not in compliance with all current DOH-ELAP-NELAP requirements for containers, preservation or holding time will be noted as such on th final report.
Disposal of hazardous waste samples is the responsibility of the Client. If the Client does not wish such samples returned, LAB may add storage and disposal fees to the final invoice. Maximum storage time for samples is 30 days after completion of analysis unless modified by applicable state or federal laws. Client will be required to give the LAB written instructions concerning disposal of these samples.
LAB reserves the absolute right, exercisable at any time, to refuse to receive delivery of, refuse to accept, or revoke acceptance of any sample, which, in the sole judgment of LAB (a) is of unsuitable volume, (b) may be or become unsuitable for or may pose a risk in handling, transport, or processing for any health, safety, environmental or other reason whether or not due to the presence in the sample of any hazardous substance, and whether or not such presence has been disclosed to LAB by Client or (c) if the condition or sample date make the sample unsuitable for analysis.

Legal Responsibility. LAB is solely responsible for performance of this contract, and no affiliated company, director, officer, employee, or agent shall have any legal responsibility hereunder, whether in contract or tort including negligence.

Assignment. LAB may assign its performance obligations under this contract to other parties, as it deems necessary. LAB shall disclose to Client any assignee (subcontractor) by ELAP ID # on the submitted final report.

Force Majeure. LAB shall have no responsibility or liability to the Client for any failure or delay in performance by LAB, which results in whole or in part from any cause or circumstance beyond the reasonable control of LAB. Such causes and circumstances shall include, but not limited to, acts of God, acts or orders of any government authority, strikes or other labor disputes, natural disasters, accidents, wars, civil disturbances, difficulties or delays in transportation, mail or delivery services, inability to obtain sufficient services or supplies from LAB's usual suppliers, or any other cause beyond LAB's reasonable control.

Law. This contract shall be continued under the laws of the State of New York without regard to its conflicts of laws provision.

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

1 of 2

PARADIGM ENVIRONMENTAL SERVICES, INC.

CHAIN OF CUSTODY

REPORT TO:		INVOICE TO: (email preferred)		LAB PROJECT ID
CLIENT:	CITY OF ROCHESTER	CLIENT:	Day Environmental, Inc.	215109
ADDRESS:	30 CHURCH ST ROOM 300B	ADDRESS:	1563 Lyell Ave	Quotation #:
CITY:	ROCHESTER STATE: NY ZIP: 14614	CITY:	Rochester STATE: NY ZIP: 14606	
PHONE:	585-428-7094	PHONE:	(585) 454-0210	Email: alexandra.zobel@cityofrochester.gov
ATTN:	Alexandra Zobel	ATTN:	Barton Kline (Bkline@daymail.net)	

PROJECT REFERENCE
Rochester Fire Academy
Semiannual Groundwater Sampling

Matrix Codes:
AQ - Aqueous Liquid, NQ - Non-Aqueous Liquid, WA - Water, WG - Groundwater, DW - Drinking Water, WW - Wastewater, SO - Soil, SL - Sludge, SD - Solid, PT - Paint, WP - Wipe, CK - Caulk, OL - Oil, AR - Air

REQUESTED ANALYSIS

DATE COLLECTED	TIME COLLECTED	COMPOSITE	GRAB	SAMPLE IDENTIFIER	MATRIX CODES	NUMBER OF CONTAINERS	601/602 + MTBE	REMARKS	PARADIGM LAB SAMPLE NUMBER
11/10/2021	1417		x	MW 6I	WG	2			01
11/10/2021	958		x	MW 7I	WG	2			02
11/10/2021	1407		x	MW 7S	WG	2			03
11/10/2021	1448		x	MW 8I	WG	2			04
11/10/2021	1345		x	MW 9D	WG	2			05
11/10/2021	1430		x	MW 10I (MS/MSD)	WG	6			06
11/10/2021	1150		x	MW 11I	WG	2			07
11/10/2021	1455		x	MW 15S	WG	2			08
11/9/21				Trip Blank T1083	W	1			09

8°C iced started in field, custody seals N/A client delivered MollyVail 11/10/21 1544

Turnaround Time		Report Supplements			
Availability contingent upon lab approval; additional fees may apply.					
Standard 5 day	x	None Required		None Required	
10 day		Batch QC		Basic EDD	
Rush 3 day		Category A		NYSDEC EDD	x
Rush 2 day		Category B	x		
Rush 1 day					
Other (please indicate date needed:)		Other (please indicate package needed:)		Other EDD (please indicate EDD needed:)	

Sampled By: Alexandra Zobel	Date/Time: 11/10/2021	Total Cost:
Relinquished By: A. Zobel	Date/Time: 11/10/2021 @ 1538	
Received By: [signature]	Date/Time: 11/10/21 @ 15:38	P.I.F.
Received @ Lab By: Molly Vail	Date/Time: 11/10/21 1553	

By signing this form, client agrees to Paradigm Terms and Conditions (reverse).

See additional page for sample conditions.

PARADIGM

Chain of Custody Supplement

Client: City of Roch **Completed by:** MollyKail

Lab Project ID: 21509 **Date:** 11/10/21

Sample Condition Requirements

Per NELAC/ELAP 210/241/242/243/244

Condition	NELAC compliance with the sample condition requirements upon receipt: Yes	No	N/A
Container Type	✓		
Comments			
Transferred to method-compliant container			✓
Headspace (<1 mL)	✓		
Comments			
Preservation	✓		
Comments			
Chlorine Absent (<0.10 ppm per test strip)	X		
Comments	VOA: Cl⁻ neg.		
Holding Time	✓		
Comments			
Temperature	✓		
Comments	special started in field		
Compliant Sample Quantity/Type	✓		
Comments			

PARADIGM

PARADIGM
ENVIRONMENTAL SERVICES, INC

Analytical Report For

City of Rochester

For Lab Project ID

215612

Referencing

RFA Monthly Sampling DEQ-98045

Prepared

Monday, December 20, 2021

Any noncompliant QC parameters or other notes impacting data interpretation are flagged or documented on the final report or are noted below.

Certifies that this report has been approved by the Technical Director or Designee

179 Lake Avenue • Rochester, NY 14608 • (585) 647-2530 • Fax (585) 647-3311 • ELAP ID# 10958

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 215612

Client: **City of Rochester**

Project Reference: RFA Monthly Sampling DEQ-98045

Sample Identifier:	Effluent		
Lab Sample ID:	215612-01	**Date Sampled:**	12/13/2021
Matrix:	Water	**Date Received:**	12/13/2021

pH

Analyte	Result	Units	Qualifier	Date Analyzed
pH	8.35 @ 19.5 C	S.U.		12/13/2021 12:03

Method Reference(s): SM22 4500 H+ B

ELAP does not offer this test for approval as part of their laboratory certification program.

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed
1,1,1-Trichloroethane	< 2.00	ug/L		12/16/2021 16:56
1,1,2,2-Tetrachloroethane	< 2.00	ug/L		12/16/2021 16:56
1,1,2-Trichloroethane	< 2.00	ug/L		12/16/2021 16:56
1,1-Dichloroethane	**2.19**	ug/L		12/16/2021 16:56
1,1-Dichloroethene	< 2.00	ug/L		12/16/2021 16:56
1,2-Dichlorobenzene	< 2.00	ug/L		12/16/2021 16:56
1,2-Dichloroethane	< 2.00	ug/L		12/16/2021 16:56
1,2-Dichloropropane	< 2.00	ug/L		12/16/2021 16:56
1,3-Dichlorobenzene	< 2.00	ug/L		12/16/2021 16:56
1,4-Dichlorobenzene	< 2.00	ug/L		12/16/2021 16:56
2-Butanone	< 10.0	ug/L		12/16/2021 16:56
2-Chloroethyl vinyl Ether	< 5.00	ug/L		12/16/2021 16:56
4-Methyl-2-pentanone	< 5.00	ug/L		12/16/2021 16:56
Acetone	< 10.0	ug/L		12/16/2021 16:56
Benzene	< 1.00	ug/L		12/16/2021 16:56
Bromodichloromethane	< 2.00	ug/L		12/16/2021 16:56
Bromoform	< 5.00	ug/L		12/16/2021 16:56
Bromomethane	< 2.00	ug/L		12/16/2021 16:56
Carbon Tetrachloride	< 2.00	ug/L		12/16/2021 16:56
Chlorobenzene	< 2.00	ug/L		12/16/2021 16:56
Chloroethane	< 2.00	ug/L		12/16/2021 16:56
Chloroform	< 2.00	ug/L		12/16/2021 16:56

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 215612

Client: **City of Rochester**

Project Reference: RFA Monthly Sampling DEQ-98045

Sample Identifier: Effluent
Lab Sample ID: 215612-01 **Date Sampled:** 12/13/2021
Matrix: Water **Date Received:** 12/13/2021

Chloromethane	< 2.00	ug/L		12/16/2021 16:56
cis-1,3-Dichloropropene	< 2.00	ug/L		12/16/2021 16:56
Dibromochloromethane	< 2.00	ug/L		12/16/2021 16:56
Ethylbenzene	< 2.00	ug/L		12/16/2021 16:56
Methylene chloride	< 5.00	ug/L		12/16/2021 16:56
Tetrachloroethene	< 2.00	ug/L		12/16/2021 16:56
Toluene	< 2.00	ug/L		12/16/2021 16:56
trans-1,2-Dichloroethene	< 2.00	ug/L		12/16/2021 16:56
trans-1,3-Dichloropropene	< 2.00	ug/L		12/16/2021 16:56
Trichloroethene	< 2.00	ug/L		12/16/2021 16:56
Vinyl chloride	< 2.00	ug/L		12/16/2021 16:56

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
1,2-Dichloroethane-d4	**109**	77.9 - 132		12/16/2021 16:56
4-Bromofluorobenzene	**92.7**	62.6 - 133		12/16/2021 16:56
Pentafluorobenzene	**115**	88.9 - 114	*	12/16/2021 16:56
Toluene-D8	**101**	75.6 - 117		12/16/2021 16:56

Method Reference(s): EPA 624.1
Data File: z06128.D

Analytical Report Appendix

The reported results relate only to the samples as they have been received by the laboratory.

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All soil/sludge samples have been reported on a dry weight basis, unless qualified "reported as received". Other solids are reported as received.

Low level Volatiles blank reports for soil/solid matrix are based on a nominal 5 gram weight. Sample results and reporting limits are based on actual weight, which may be more or less than 5 grams.

The Chain of Custody provides additional information, including compliance with sample condition requirements upon receipt. Sample condition requirements are defined under the 2003 NELAC Standard, sections 5.5.8.3.1 and 5.5.8.3.2.

NYSDOH ELAP does not certify for all parameters. Paradigm Environmental Services or the indicated subcontracted laboratory does hold certification for all analytes where certification is offered by ELAP unless otherwise specified. Aliquots separated for certain tests, such as TCLP, are indicated on the Chain of Custody and final reports with an "A" suffix.

Data qualifiers are used, when necessary, to provide additional information about the data. This information may be communicated as a flag or as text at the bottom of the report. Please refer to the following list of analyte-specific, frequently used data flags and their meaning:

"<" = Analyzed for but not detected at or above the quantitation limit.
"E" = Result has been estimated, calibration limit exceeded.
"Z" = See case narrative.
"D" = Sample, Laboratory Control Sample, or Matrix Spike Duplicate results above Relative Percent Difference limit.
"M" = Matrix spike recoveries outside QC limits. Matrix bias indicated.
"B" = Method blank contained trace levels of analyte. Refer to included method blank report.
"J" = Result estimated between the quantitation limit and half the quantitation limit.
"L" = Laboratory Control Sample recovery outside accepted QC limits.
"P" = Concentration differs by more than 40% between the primary and secondary analytical columns.
"NC" = Not calculable. Applicable to RPD if sample or duplicate result is non-detect or estimated (see primary report for data flags). Applicable to MS if sample is greater or equal to ten times the spike added. Applicable to sample surrogates or MS if sample dilution is 10x or higher.
"" = Indicates any recoveries outside associated acceptance windows. Surrogate outliers in samples are presumed matrix effects. LCS demonstrates method compliance unless otherwise noted.*
"(1)" = Indicates data from primary column used for QC calculation.
"A" = denotes a parameter for which ELAP does not offer approval as part of their laboratory certification program.
"F" = denotes a parameter for which Paradigm does not carry certification, the results for which should therefore only be used where ELAP certification is not required, such as personal exposure assessment.

GENERAL TERMS AND CONDITIONS
LABORATORY SERVICES

These Terms and Conditions embody the whole agreement of the parties in the absence of a signed and executed contract between the Laboratory (LAB) and Client. They shall supersede all previous communications, representations, or agreements, either verbal or written, between the parties. The LAB specifically rejects all additional, inconsistent, or conflicting terms, whether printed or otherwise set forth in any purchase order or other communication from the Client to the LAB. The invalidity or unenforceability in whole or in part of any provision, tern or condition hereof shall not affect in any way the validity or enforceability of the remainder of the Terms and Conditions. No waiver by LAB of any provision, term, or condition hereof or of any breach by or obligation of the Client hereunder shall constitute a waiver of such provision, term, or condition on any other occasion or a waiver of any other breach by or obligation of the Client. This agreement shall be administered and interpreted under the laws of the state which services are procured.

Warranty. Recognizing that the nature of many samples is unknown and that some may contain potentially hazardous components, LAB warrants only that it will perform testing services, obtain findings, and prepare reports in accordance with generally accepted analytical laboratory principles and practices at the time of performance of services. LAB makes no other warranty, express or implied.

Scope and Compensation. LAB agrees to perform the services described in the chain of custody to which these terms and conditions are attached. Unless the parties agree in writing to the contrary, the duties of LAB shall not be construed to exceed the services specifically described. LAB wi use LAB default method for all tests unless specified otherwise on the Work Order.
Payment terms are net 30 days from the date of invoice. All overdue payments are subject to an interest charge of one and one-half percent (1-1/2%) per month or a portion thereof. Client shall also be responsible for costs of collection, including payment of reasonable attorney fees if such expense is incurred. The prices, unless stated, do not include any sale, use or other taxes. Such taxes will be added to invoice prices when required.

Prices. Compensation for services performed will be based on the current Lab Analytical Fee Schedule or on quotations agreed to in writing by the parties. Turnaround time based charges are determined from the time of resolution of all work order questions. Testimony, court appearances or data compilation for legal action will be charged separately. Evaluation and reporting of initial screening runs may incur additional fees.

Limitations of Liability. In the event of any error, omission, or other professional negligence, the sole and exclusive responsibility of LAB shall be to re-perform the deficient work at its own expense and LAB shall have no other liability whatsoever. All claims shall be deemed waived unless made in writing and received by LAB within ninety (90) days following completion of services.
LAB shall have no liability, obligation, or responsibility of any kind for losses, costs, expenses, or other damages (including but not limited to any special, direct, incidental or consequential damages) with respect to LAB's services or results.
All results provided by LAB are strictly for the use of its clients and LAB is in no way responsible for the use of such results by clients or third parties. All reports should be considered in their entirety, and LAB is not responsible for the separation, detachment, or other use of any portion of these reports. Client may not assign the lab report without the written consent of the LAB.
Client covenants and agrees, at its/his/her sole expense, to indemnify, protect, defend, and save harmless the LAB from and against any and all damages, losses, liabilities, obligations, penalties, claims, litigation, demands, defenses, judgments, suits, actions, proceedings, costs, disbursements and/or expenses (including, without limitation attorneys' and experts' fees and disbursements) of any kind whatsoever which may at any time be imposed upon, incurred by or asserted or awarded against client relating to, resulting from or arising out of (a) the breach of this agreement by this client, (b) the negligence of the client in handling, delivering or disclosing any hazardous substance, (c) the violation of the Client of any applicable law, (d) non-compliance by the Client with any environmental permit or (e) a material misrepresentation in disclosing the materials to be tested.

Hazard Disclosure. Client represents and warrants that any sample delivered to LAB will be preceded or accompanied by complete written disclosure of the presence of any hazardous substances known or suspected by Client. Client further warrants that any sample containing any hazardous substance that is to be delivered to LAB will be packaged, labeled, transported, and delivered properly and in accordance with applicable laws.

Sample Handling. Prior to LAB's acceptance of any sample (or after any revocation of acceptance), the entire risk of loss or of damage to such sample remains with Client. Samples are accepted when receipt is acknowledged on chain of custody documentation. In no event will LAB have any responsibility for the action or inaction of any carrier shipping or delivering any sample to or from LAB premises.
Client authorizes LAB to proceed with the analysis of samples as received by the laboratory, recognizing that any samples not in compliance with all current DOH-ELAP-NELAP requirements for containers, preservation or holding time will be noted as such on th final report.
Disposal of hazardous waste samples is the responsibility of the Client. If the Client does not wish such samples returned, LAB may add storage and disposal fees to the final invoice. Maximum storage time for samples is 30 days after completion of analysis unless modified by applicable state or federal laws. Client will be required to give the LAB written instructions concerning disposal of these samples.
LAB reserves the absolute right, exercisable at any time, to refuse to receive delivery of, refuse to accept, or revoke acceptance of any sample, which, in the sole judgment of LAB (a) is of unsuitable volume, (b) may be or become unsuitable for or may pose a risk in handling, transport, or processing for any health, safety, environmental or other reason whether or not due to the presence in the sample of any hazardous substance, and whether or not such presence has been disclosed to LAB by Client or (c) if the condition or sample date make the sample unsuitable for analysis.

Legal Responsibility. LAB is solely responsible for performance of this contract, and no affiliated company, director, officer, employee, or agent shall have any legal responsibility hereunder, whether in contract or tort including negligence.

Assignment. LAB may assign its performance obligations under this contract to other parties, as it deems necessary. LAB shall disclose to Client any assignee (subcontractor) by ELAP ID # on the submitted final report.

Force Majeure. LAB shall have no responsibility or liability to the Client for any failure or delay in performance by LAB, which results in whole or in part from any cause or circumstance beyond the reasonable control of LAB. Such causes and circumstances shall include, but not limited to, acts of God, acts or orders of any government authority, strikes or other labor disputes, natural disasters, accidents, wars, civil disturbances, difficulties or delays in transportation, mail or delivery services, inability to obtain sufficient services or supplies from LAB's usual suppliers, or any other cause beyond LAB's reasonable control.

Law. This contract shall be continued under the laws of the State of New York without regard to its conflicts of laws provision.

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

PARADIGM ENVIRONMENTAL SERVICES, INC.

CHAIN OF CUSTODY

1 of 2

REPORT TO:		INVOICE TO:		LAB PROJECT ID
COMPANY:	City of Rochester	COMPANY:	Day Environmental, Inc.	215612
ADDRESS:	30 Church Street, Room 300B	ADDRESS:	1563 Lyell Ave	
CITY:	Rochester STATE: NY ZIP: 14614	CITY:	Rochester STATE: ZIP:	Quotation #:
PHONE:	(585) 428-7094 FAX:	PHONE:	585-454-0210 (email invoice)	Email: peckd@cityofrochester.gov
ATTN:	Alexandra Zobel	ATTN:	Bart Kline (bkline@daymail.net)	alexandra.zobel@cityofrochester.gov

PROJECT REFERENCE

RFA Monthly Sampling DEQ-98045

Matrix Codes:

AQ - Aqueous Liquid; NQ - Non-Aqueous Liquid; WA - Water; WG - Groundwater; DW - Drinking Water; WW - Wastewater; SO - Soil; SL - Sludge; SD - Solid; PT - Paint; WP - Wipe; CK - Caulk; OL - Oil; AR - Air

REQUESTED ANALYSIS

DATE COLLECTED	TIME COLLECTED	COMPOSITE	GRAB	SAMPLE IDENTIFIER	MATRIX CODES	NUMBER OF CONTAINERS	624 Site Specific	pH									REMARKS	PARADIGM LAB SAMPLE NUMBER
12/13/2021	955		X	Effluent	WA	3	X	X									624 Site Specific = VRFA Test Name	01

Turnaround Time		Report Supplements		
Availability contingent upon lab approval; additional fees may apply.				
Standard 5 day	X	None Required	X	None Required X
10 day		Batch QC		Basic EDD
Rush 3 day		Category A		NYSDEC EDD
Rush 2 day		Category B		
Rush 1 day				
Other please indicate date needed:		Other please indicate package needed:		Other EDD please indicate EDD needed

Alexandra Zobel — Sampled By — 12/13/21 @ 955 — Date/Time

A Zobel — Relinquished By — 12/13/21 @ 10:31 — Date/Time

Received By — 12/13/21 @ 10:31 — Date/Time

2P2 — Received @ Lab By — 12/13/21 11:06 — Date/Time

9°C 12/13/21 10:34

Total Cost:

P.I.F.

By signing this form, client agrees to Paradigm Terms and Conditions (reverse).

See additional page for sample conditions.

PARADIGM

Chain of Custody Supplement

Client: City of Rochester **Completed by:** Glenn Pezzulo

Lab Project ID: 215612 **Date:** 12/13/21

Sample Condition Requirements

Per NELAC/ELAP 210/241/242/243/244

Condition	NELAC compliance with the sample condition requirements upon receipt Yes	No	N/A
Container Type	X		
Comments			
Transferred to method-compliant container			X
Headspace (<1 mL)	X VOA		X
Comments			
Preservation	X VOA		X
Comments			
Chlorine Absent (<0.10 ppm per test strip)	X		X
Comments	VOA 624: Cl⁻ neg.		
Holding Time	X	X pH	
Comments			
Temperature		X	X pH
Comments	9°C		
Compliant Sample Quantity/Type	X		
Comments			

APPENDIX D

INSPECTION FORMS AND OPERATOR LOGS

ROCHESTER FIRE ACADEMY

COVER SYSTEM INSPECTION CHECKLIST

Date: 10/27/21

Inspected By: B. J. Kline

VISUAL EVALUATION ITEMS	CONDITION (Check)				Remarks
	Acceptable	Not Acceptable	Present	Not Present	
1. North Disposal Area					TWO SMALL TREES GROWING ON TOP OF MOUND, GROWTH INCREASING ALONG BASE OF MOUND AND ALONG FENCELINE AT MULTIPLE LOCATIONS. TREES/BRUSH NEEDS CLEARING.
a. Vegetative Cover Integrity	✓				
b. Erosion				✓	
c. Settling				✓	
d. Slope Loss				✓	
e. Pooling / ponding				✓	
f. Undesirable species			✓		
2. South Disposal Area					GOOD CONDITION.
a. Vegetative Cover Integrity	✓				
b. Erosion				✓	
c. Settling				✓	
d. Slope Loss				✓	
e. Pooling / ponding				✓	
f. Undesirable species				✓	
3. Training Grounds Area					CRACK SEALING RECENTLY COMPLETED. HYDRANT HOLE (2020) PATCHED. NEW WATER BATH AT PLANE, APPEARS LEAK-FREE.
a. Surface Coarse Integrity	✓				
b. Cracking			✓ (MINOR)		
c. Potholes				✓	
d. Pooling / ponding				✓	
e. Undesirable species				✓	
4. Other Comments / Problems:					

ROCHESTER FIRE ACADEMY

STORM WATER COLLECTION SYSTEM INSPECTION CHECKLIST

Date: 10/27/21

Inspected By: B. J. Kline

VISUAL EVALUATION ITEMS	CONDITION (Check) Present	Not Present	Remarks
1. Drainage Channels			
a. Sediment build-up		✓	
b. Pooling/ponding		✓	
c. Severe cracking		✓	
d. Erosion		✓	
e. Slope loss		✓	
2. Storm Sewers / Grates			
a. Sediment build-up		✓	
b. Pooling / ponding		✓	
c. Broken pipe		✓	
d. Slope loss		✓	
e. Grate clogging		✓	
3. Drainage Structures #1, #2, #3			STRUCTURES SUBMERGED AT TIME OF INSPECTION (HIGH WATER LEVEL), OUTFALL BY K-9 AREA HAS BRUSH GROWING IN OUTFALL. CLEANOUTS WILL EVENTUALLY BE NEEDED, BUT FLOW DOES NOT APPEAR TO BE IMPACTED.
a. Flapper valve functioning	✓		
b. Broken / cracked pipe		✓	
c. Cracked headwall structure		✓	
Other Comments / Problems:			

ROCHESTER FIRE TRAINING ACADEMY
GROUNDWATER TREATMENT OPERATORS LOG

WEEK OF: 1/1/21

Daily Log Info:

Date:	1/1/21	1/2/21	1/3/21	1/4/21	1/5/21	1/6/21	1/7/21
Daily Discharge (gal)	1480	4540	6570	5170	4340	3300	3120
Total Flow Year-To-Date (gal)	1,480	6,000	12,521	17,630	21,943	25,250	28,363
Alarms							

Weekly Log Info:

Site Check Date	
NDA Grounds Check	
TGA Grounds Check	
SDA Grounds Check	
SDA Plant Check	

Flow Rate In, GPM (P1 or P2)	
Flow Rate Out, GPM (P1 or P2)	
Bag Filter PSI (In/Out)	
Sequestering Agent Level, in.	4.9 1/5/21
GW Trench Pump Setpoints (On/Off)	

Site Notes:

ROCHESTER FIRE TRAINING ACADEMY
GROUNDWATER TREATMENT OPERATORS LOG

WEEK OF: 1/8/21

Daily Log Info:

Date:	1/8/21	1/9/21	1/10/21	1/11/21	1/12/21	1/13/21	1/14/21
Daily Discharge (gal)	3070	3140	2760	3030	2550	2730	2860
Total Flow Year-To-Date (gal)	31,401	34,511	37,287	40,309	42,831	45,540	48,376
Alarms							

Weekly Log Info:

Site Check Date	
NDA Grounds Check	
TGA Grounds Check	
SDA Grounds Check	
SDA Plant Check	

Flow Rate In, GPM (P1 or P2)	
Flow Rate Out, GPM (P1 or P2)	
Bag Filter PSI (In/Out)	
Sequestering Agent Level, in.	
GW Trench Pump Setpoints (On/Off)	

Site Notes:

ROCHESTER FIRE TRAINING ACADEMY
GROUNDWATER TREATMENT OPERATORS LOG

WEEK OF: 1/15/2020

Daily Log Info:

Date:	1/15/21	1/16/21	1/17/21	1/18/21	1/19/21	1/20/21	1/21/21
Daily Discharge (gal)	2550	2620	2460	2420	2450	2670	2320
Total Flow Year-To-Date (gal)	50,885	53,474	55,912	58,321	60,769	63,400	65,700
Alarms							

Weekly Log Info:

Site Check Date	
NDA Grounds Check	
TGA Grounds Check	
SDA Grounds Check	
SDA Plant Check	

Flow Rate In, GPM (P1 or P2)	
Flow Rate Out, GPM (P1 or P2)	
Bag Filter PSI (In/Out)	
Sequestering Agent Level, in.	
GW Trench Pump Setpoints (On/Off)	

Site Notes:

ROCHESTER FIRE TRAINING ACADEMY
GROUNDWATER TREATMENT OPERATORS LOG

WEEK OF: 1/22/21

Daily Log Info:

Date:	1/22/21	1/23/21	1/24/21	1/25/21	1/26/21	1/27/21	1/28/21
Daily Discharge (gal)	2630	2330	2490	2080	2630	2120	2480
Total Flow Year-To-Date (gal)	68,289	70,601	73,079	75,174	77,772	79,879	82332
Alarms							

Weekly Log Info:

Site Check Date	
NDA Grounds Check	
TGA Grounds Check	
SDA Grounds Check	
SDA Plant Check	

Flow Rate In, GPM (P1 or P2)	
Flow Rate Out, GPM (P1 or P2)	
Bag Filter PSI (In/Out)	
Sequestering Agent Level, in.	3.0 1/22/21 2.4 1/28
GW Trench Pump Setpoints (On/Off)	

Site Notes:

ROCHESTER FIRE TRAINING ACADEMY
GROUNDWATER TREATMENT OPERATORS LOG

WEEK OF: 1/31/21

Daily Log Info:

Date:	1/29/21	1/30/21	1/31/21				
Daily Discharge (gal)	2320	2240	2210				
Total Flow Year-To-Date (gal)	84,634	86,870	89,062				
Alarms							

Weekly Log Info:

Site Check Date	
NDA Grounds Check	
TGA Grounds Check	
SDA Grounds Check	
SDA Plant Check	

Flow Rate In, GPM (P1 or P2)	
Flow Rate Out, GPM (P1 or P2)	
Bag Filter PSI (In/Out)	
Sequestering Agent Level, in.	1.9 2/2/21
GW Trench Pump Setpoints (On/Off)	

Site Notes:

ROCHESTER FIRE TRAINING ACADEMY
GROUNDWATER TREATMENT OPERATORS LOG

WEEK OF: 2/1/21

Daily Log Info:

Date:	2/1/21	2/2/21	2/3/21	2/4/21	2/5/21	2/6/21	2/7/21
Daily Discharge (gal)	2330	2400	2280	2100	2270	2340	1970
Total Flow Year-To-Date (gal)	91,363	93,744	95,997	98,084	100,336	102,653	104,625
Alarms							

Weekly Log Info:

Site Check Date	
NDA Grounds Check	
TGA Grounds Check	
SDA Grounds Check	
SDA Plant Check	

Flow Rate In, GPM (P1 or P2)	
Flow Rate Out, GPM (P1 or P2)	
Bag Filter PSI (In/Out)	
Sequestering Agent Level, in.	1.9 2/2/21
GW Trench Pump Setpoints (On/Off)	4.5/4.0

Site Notes:

ROCHESTER FIRE TRAINING ACADEMY
GROUNDWATER TREATMENT OPERATORS LOG

WEEK OF: 2/8/21

Daily Log Info:

Date:	2/8/21	2/9/21	2/10/21	2/11/21	2/12/21	2/13/21	2/14/21
Daily Discharge (gal)	2100	2190	2200	2200	2240	2210	2070
Total Flow Year-To-Date (gal)	106,747	108,930	111,112	113,297	115,512	117,709	119,766
Alarms							

Weekly Log Info:

Site Check Date	
NDA Grounds Check	
TGA Grounds Check	
SDA Grounds Check	
SDA Plant Check	

Flow Rate In, GPM (P1 or P2)	
Flow Rate Out, GPM (P1 or P2)	
Bag Filter PSI (In/Out)	
Sequestering Agent Level, in.	32.0"
GW Trench Pump Setpoints (On/Off)	

Site Notes: mixed sequestering agent 2/8/21

ROCHESTER FIRE TRAINING ACADEMY
GROUNDWATER TREATMENT OPERATORS LOG

WEEK OF: 2/15/21

Daily Log Info:

Date:	2/15/21	2/16/21	2/17/21	2/18/21	2/19/21	2/20/21	2/21/21
Daily Discharge (gal)	2270	1470	2450	2610	2330	1930	2290
Total Flow Year-To-Date (gal)	122,009	123,434	125,845	128,444	130,753	132,672	134,950
Alarms							

Weekly Log Info:

Site Check Date	
NDA Grounds Check	
TGA Grounds Check	
SDA Grounds Check	
SDA Plant Check	

Flow Rate In, GPM (P1 or P2)	
Flow Rate Out, GPM (P1 or P2)	
Bag Filter PSI (In/Out)	
Sequestering Agent Level, in.	31.0 2/15 30.4 2/22
GW Trench Pump Setpoints (On/Off)	

Site Notes:

2/16/21 Matrix + Tom R (DAY) on site to replace one of the Bldg Sump pumps, also clean out 2 Bag filters located behind Effluent tank ← This is very important! The bag filters were partially clogged thus restricting flow

ROCHESTER FIRE TRAINING ACADEMY
GROUNDWATER TREATMENT OPERATORS LOG

WEEK OF: 2/22/21

Daily Log Info:

Date:	2/22/21	2/23/21	2/24/21	2/25/21	2/26/21	2/27/21	2/28/21
Daily Discharge (gal)	2110 ~~2290~~	236 ~~2110~~	2610 ~~2360~~	4800	5460	4410	5190
Total Flow Year-To-Date (gal)	137,030	139,401	141,990	146,742	152,133	156,574	161,664
Alarms							

3/1 4PM
164,838
~~3/4~~ 3174 gal 16 hrs
3.3 gal/min

Weekly Log Info:

Site Check Date	
NDA Grounds Check	
TGA Grounds Check	
SDA Grounds Check	
SDA Plant Check	

Flow Rate In, GPM (P1 or P2)	
Flow Rate Out, GPM (P1 or P2)	
Bag Filter PSI (In/Out)	
Sequestering Agent Level, in.	30.1 2/25 29.3 2/28
GW Trench Pump Setpoints (On/Off)	

Site Notes:

Fairly snowy Feb. + cold. Warming trend starting ~ 2/~~24~~23/21
Sampled influent + effluent 2/26/21

ROCHESTER FIRE TRAINING ACADEMY
GROUNDWATER TREATMENT OPERATORS LOG

WEEK OF: 3/1/2021

Daily Log Info:

Date:	3/1/21	3/2/21	3/3/21	3/4/21	3/5/21	3/6/21	3/7/21
Daily Discharge (gal)	4470	5190	4360	6070	4690	6140	5250
Total Flow Year-To-Date (gal)	166,087	171,256	175,599	181,608	186,291	192,401	197,603
Alarms							

Weekly Log Info:

Site Check Date	
NDA Grounds Check	
TGA Grounds Check	
SDA Grounds Check	
SDA Plant Check	

Flow Rate In, GPM (P1 or P2)	
Flow Rate Out, GPM (P1 or P2)	
Bag Filter PSI (In/Out)	
Sequestering Agent Level, in.	29.3 2/28/21 28.5 3/5/21 1200
GW Trench Pump Setpoints (On/Off)	

Time	Eff Tot	GW
3/3 1140	173,843	
3/3 500	174,500	6.70
3/4 1230	179,012	6.78
3/4 430	179,976	6.66
3/5 0930	183,589	6.51 6.58 1130 after Pumps off 2 Hours
3/5 400	184,948	
3/8 1045	200,313	4.44
3/8 415	201,809	4.20
3/9 1200	204,288	4.33
3/10 1000	207,169	4.44
3/12 1140	213,855	4.36
3/14 100	220,212	4.41 Sunday Stop Pumping - Maintenance
3/16 400		6.33
3/17 400		7.04
3/19 400		8.26
3/23 1100		9.94
3/26 1230		11.08
3/29 700am		12.02
3/30 300PM		12.49
4/1 300PM		13.17

Site Notes:

3/3/21 Tom Rosyk + D Peck troubleshoot slow feed rate - a lot of iron scale on valves + pipes from feed pumps to air stripper. Clean valves + reassemble. Will need further maintenance.

3/15/21 Disassembled both Feed Pumps + cleaned

ROCHESTER FIRE TRAINING ACADEMY
GROUNDWATER TREATMENT OPERATORS LOG

WEEK OF: 3/8/21

Daily Log Info:

Date:	3/8/21	3/9/21	3/10/21	3/11/21	3/12/21	3/13/21	3/14/21
Daily Discharge (gal)	5280	2960	3390	3170	3290	3250	1950
Total Flow Year-To-Date (gal)	202,861	205,804	209,141	212,277	215,509	218,765	220,687
Alarms							

Weekly Log Info:

Site Check Date	
NDA Grounds Check	
TGA Grounds Check	
SDA Grounds Check	
SDA Plant Check	

Flow Rate In, GPM (P1 or P2)	
Flow Rate Out, GPM (P1 or P2)	
Bag Filter PSI (In/Out)	
Sequestering Agent Level, in.	27.2" 3/12
GW Trench Pump Setpoints (On/Off)	

Site Notes: sampled effluent 3/11/21
3/10 + 3/11 65° Snow Melt
3/14 + 3/15/21 Cold (3/15) Matrix on site for maintenance (Clean Air Stripper + install new gasket + Both feed Pumps)

ROCHESTER FIRE TRAINING ACADEMY
GROUNDWATER TREATMENT OPERATORS LOG

WEEK OF: 3/15/21

Daily Log Info:

Date:	3/15/21	3/16/21	3/17/21	3/18/21	3/19/21	3/20/21	3/21/21
Daily Discharge (gal)							
Total Flow Year-To-Date (gal)							
Alarms							

Weekly Log Info:

Site Check Date	
NDA Grounds Check	
TGA Grounds Check	
SDA Grounds Check	
SDA Plant Check	

Flow Rate In, GPM (P1 or P2)	
Flow Rate Out, GPM (P1 or P2)	
Bag Filter PSI (In/Out)	
Sequestering Agent Level, in.	
GW Trench Pump Setpoints (On/Off)	

Site Notes:

System off for Maintenance

ROCHESTER FIRE TRAINING ACADEMY
GROUNDWATER TREATMENT OPERATORS LOG

WEEK OF: 3/22/21

Daily Log Info:

Date:	3/22/21	3/23/21	3/24/21	3/25/21	3/26/21	3/27/21	3/28/21
Daily Discharge (gal)							
Total Flow Year-To-Date (gal)							
Alarms							

Weekly Log Info:

Site Check Date	
NDA Grounds Check	
TGA Grounds Check	
SDA Grounds Check	
SDA Plant Check	

Flow Rate In, GPM (P1 or P2)	
Flow Rate Out, GPM (P1 or P2)	
Bag Filter PSI (In/Out)	
Sequestering Agent Level, in.	
GW Trench Pump Setpoints (On/Off)	

Site Notes:

System off for Mtc.

ROCHESTER FIRE TRAINING ACADEMY
GROUNDWATER TREATMENT OPERATORS LOG

WEEK OF: 3/29/21

Daily Log Info:

Date:	3/29/21	3/30/21	3/31/21				
Daily Discharge (gal)			680				
Total Flow Year-To-Date (gal)			221,354				
Alarms							

Weekly Log Info:

Site Check Date	
NDA Grounds Check	
TGA Grounds Check	
SDA Grounds Check	
SDA Plant Check	

Flow Rate In, GPM (P1 or P2)	
Flow Rate Out, GPM (P1 or P2)	
Bag Filter PSI (In/Out)	
Sequestering Agent Level, in.	
GW Trench Pump Setpoints (On/Off)	

Site Notes:

System off for Maintenance 3/15 - 3/31

ROCHESTER FIRE TRAINING ACADEMY
GROUNDWATER TREATMENT OPERATORS LOG

WEEK OF: 4/1/21

Daily Log Info:

Date:	4/1/21	4/2/21	4/3/21	4/4/21	4/5/21 ← change to Blower #2	4/6/21	4/7/21
Daily Discharge (gal)	620	12,430	19,950	3070	3060	2540	2920
Total Flow Year-To-Date (gal)	220,020	234,339	254,075	257,112	260,143	262,631	265,525
Alarms							

Weekly Log Info:

Site Check Date	
NDA Grounds Check	
TGA Grounds Check	
SDA Grounds Check	
SDA Plant Check	

Flow Rate In, GPM (P1 or P2)	4/2/21 26.0 Pump1 ; 4/3/21 62GPM - Pump2
Flow Rate Out, GPM (P1 or P2)	4/2/21 Both Pumps ~36.0 ; 24.7 GPM P1
Bag Filter PSI (In/Out)	
Sequestering Agent Level, in.	25.1 4/2/21
GW Trench Pump Setpoints (On/Off)	

Date	GW Level	EFF Total
F 4/2	12.91	4/1 222,020 midnight
F 4/2 2PM	12.37	
4PM	11.72	225,371
at 4/3 2PM	6.76	245,772
un 4/4 1100	4.40	255,629

Site Notes:

4/1/21 Re assemble Air Stripper + restart. Some relatively minor issues w/ water leaks from A.S. gasket Will observe + plan other actions later 4/2 actual re-start of system ~Noon

Sat 4/3 Alarm 10:30 Floor sump high level (forgot to turn on pumps at panel on 4/2/21) Alarm cleared 4/3 @ 2:30PM
Floor Sump #2 Not working - Power on but no water Pump #1 OK
Feed Pump #1 " " " " " " " Feed #2 OK

Sun 4/4 GW trench level ≅ 4.4' System back to normal operating level.

4/5 Change to Blower #2

ROCHESTER FIRE TRAINING ACADEMY
GROUNDWATER TREATMENT OPERATORS LOG

WEEK OF: 4/8/21

Daily Log Info:

Date:	4/8/21	4/9/21	4/10/21	4/11/21	4/12/21	4/13/21	4/14/21
Daily Discharge (gal)	247C	820	0	0	14,750	5480	4320
Total Flow Year-To-Date (gal)	267,967	268,772	268,772	268,772	283,309	288,721	292,988
Alarms							

955 · 7.88
440 5.53

Weekly Log Info:

Site Check Date	
NDA Grounds Check	
TGA Grounds Check	
SDA Grounds Check	
SDA Plant Check	

Flow Rate In, GPM (P1 or P2)	
Flow Rate Out, GPM (P1 or P2)	
Bag Filter PSI (In/Out)	
Sequestering Agent Level, in.	25.0" 4/12
GW Trench Pump Setpoints (On/Off)	

Site Notes: Fri 4/9/21 Matrix on site to fix gaskets on air stripper. System will be off until Mon 4/12/21

ROCHESTER FIRE TRAINING ACADEMY
GROUNDWATER TREATMENT OPERATORS LOG

WEEK OF: 4/15/21

Daily Log Info:

Date:	4/15/21	4/16/21	4/17/21	4/18/21	4/19/21	4/20/21	4/21/21
Daily Discharge (gal)	3810	5500	5610	3880	3150	4470	2840
Total Flow Year-To-Date (gal)	296,802	302,209	307,743	311,578	314,676	319,089	321,923
Alarms							

Tom
- Siphon
- Feed Pump 1
- Gasket grease
- other plumbing changes
- AS Floats
- Discharge Pumps start sooner?
- How many gallons does A.S. Hold?
- ~~[illegible]~~
- ?camera GW trench from MH?

COVID Test 7571360-C2T95

ds Check	
ds Check	
ds Check	
Check	

Flow Rate In, GPM (P1 or P2)	
Flow Rate Out, GPM (P1 or P2)	
Bag Filter PSI (In/Out)	
Sequestering Agent Level, in.	23.2" 4/19
GW Trench Pump Setpoints (On/Off)	

sampled effluent 4/15/21

ROCHESTER FIRE TRAINING ACADEMY
GROUNDWATER TREATMENT OPERATORS LOG

WEEK OF: 4/22/21

Daily Log Info:

Date:	4/22/21	4/23/21	4/24/21	4/25/21	4/26/21	4/27/21	4/28/21
Daily Discharge (gal)	3370	3000	2790	3290	2820	2600	2750
Total Flow Year-To-Date (gal)	325,219	328,161	330,904	334,117	336,911	339,465	342,210
Alarms							

Weekly Log Info:

Site Check Date	
NDA Grounds Check	
TGA Grounds Check	
SDA Grounds Check	
SDA Plant Check	

Flow Rate In, GPM (P1 or P2)	
Flow Rate Out, GPM (P1 or P2)	
Bag Filter PSI (In/Out)	
Sequestering Agent Level, in.	
GW Trench Pump Setpoints (On/Off)	

Site Notes:

ROCHESTER FIRE TRAINING ACADEMY
GROUNDWATER TREATMENT OPERATORS LOG

WEEK OF: 4/29/21

Daily Log Info:

Date:	4/29/21	4/30/21	4/31/21				
Daily Discharge (gal)	2690	2830					
Total Flow Year-To-Date (gal)	344,852	347,667					
Alarms							

Weekly Log Info:

Site Check Date	
NDA Grounds Check	
TGA Grounds Check	
SDA Grounds Check	
SDA Plant Check	

Flow Rate In, GPM (P1 or P2)	
Flow Rate Out, GPM (P1 or P2)	
Bag Filter PSI (In/Out)	
Sequestering Agent Level, in.	
GW Trench Pump Setpoints (On/Off)	

Site Notes:

ROCHESTER FIRE TRAINING ACADEMY
GROUNDWATER TREATMENT OPERATORS LOG

WEEK OF: 5/1/2021

Daily Log Info:

Date:	5/1/21	5/2/21	5/3/21	5/4/21	5/5/21	5/6/21	5/7/21
Daily Discharge (gal)	2610	2770	2400	2870	2270	2630	2770
Total Flow Year-To-Date (gal)	350,245	352,978	355,352	358,163	360,422	363,032	365,782
Alarms							

Weekly Log Info:

Site Check Date	
NDA Grounds Check	
TGA Grounds Check	
SDA Grounds Check	
SDA Plant Check	

Flow Rate In, GPM (P1 or P2)	
Flow Rate Out, GPM (P1 or P2)	
Bag Filter PSI (In/Out)	
Sequestering Agent Level, in.	
GW Trench Pump Setpoints (On/Off)	

Site Notes:

ROCHESTER FIRE TRAINING ACADEMY
GROUNDWATER TREATMENT OPERATORS LOG

WEEK OF: 5/8/21

Daily Log Info:

Date:	5/8/21	5/9/21	5/10/21	5/11/21	5/12/21	5/13/21	5/14/21
Daily Discharge (gal)	2880	2080	1740	0	5530	2090	2660
Total Flow Year-To-Date (gal)	368,811	370,668	372,389	372,389	377,873	379,910	382,546
Alarms							

Weekly Log Info:

Site Check Date	
NDA Grounds Check	
TGA Grounds Check	
SDA Grounds Check	
SDA Plant Check	

Flow Rate In, GPM (P1 or P2)	
Flow Rate Out, GPM (P1 or P2)	
Bag Filter PSI (In/Out)	
Sequestering Agent Level, in.	
GW Trench Pump Setpoints (On/Off)	

Site Notes:

ROCHESTER FIRE TRAINING ACADEMY
GROUNDWATER TREATMENT OPERATORS LOG

WEEK OF: 5/15/21

Daily Log Info:

Date:	5/15/21	5/16/21	5/17/21	5/18/21	5/19/21	5/20/21	5/21/21
Daily Discharge (gal)	2130	2460	1230	3320	2230	2110	2360
Total Flow Year-To-Date (gal)	384,656	387,076	388,273	391,579	393,780	395,865	398,162
Alarms							

Weekly Log Info:

Site Check Date	
NDA Grounds Check	
TGA Grounds Check	
SDA Grounds Check	
SDA Plant Check	

Flow Rate In, GPM (P1 or P2)	
Flow Rate Out, GPM (P1 or P2)	
Bag Filter PSI (In/Out)	
Sequestering Agent Level, in.	
GW Trench Pump Setpoints (On/Off)	

Site Notes:

ROCHESTER FIRE TRAINING ACADEMY
GROUNDWATER TREATMENT OPERATORS LOG

WEEK OF: 5/22/21

Daily Log Info:

Date:	5/22/21	5/23/21	5/24/21	5/25/21	5/26/21	5/27/21	5/28/21
Daily Discharge (gal)	2070	2300	1960	2390 ~~1970~~	1970	3160	1900
Total Flow Year-To-Date (gal)	400,209	402,467	404,394	406,769 ~~408,742~~	408,742	411,852	413,734
Alarms							

Weekly Log Info:

Site Check Date	
NDA Grounds Check	
TGA Grounds Check	
SDA Grounds Check	
SDA Plant Check	

Flow Rate In, GPM (P1 or P2)	
Flow Rate Out, GPM (P1 or P2)	
Bag Filter PSI (In/Out)	
Sequestering Agent Level, in.	
GW Trench Pump Setpoints (On/Off)	

Site Notes: sampled influent & effluent 5/27/21
5/2021 semiannual GW sampling 5/27/21

ROCHESTER FIRE TRAINING ACADEMY
GROUNDWATER TREATMENT OPERATORS LOG

WEEK OF: 5/29/21

Daily Log Info:

Date:	5/29/21	5/30/21	5/31/21				
Daily Discharge (gal)	1740	2090	2190				
Total Flow Year-To-Date (gal)	415,454	417,514	419,703				
Alarms							

Weekly Log Info:

Site Check Date	
NDA Grounds Check	
TGA Grounds Check	
SDA Grounds Check	
SDA Plant Check	

Flow Rate In, GPM (P1 or P2)	
Flow Rate Out, GPM (P1 or P2)	
Bag Filter PSI (In/Out)	
Sequestering Agent Level, in.	
GW Trench Pump Setpoints (On/Off)	

Site Notes:

ROCHESTER FIRE TRAINING ACADEMY
GROUNDWATER TREATMENT OPERATORS LOG

WEEK OF: 6/1/2021

Daily Log Info:

Date:	6/1/21	6/2/21	6/3/21	6/4/21	6/5/21	6/6/21	6/7/21
Daily Discharge (gal)	1910	2200	2400	1340	2360	1950	1720
Total Flow Year-To-Date (gal)	421,588	423,778	426,110	427,439	429,970	431,899	433,593
Alarms							

Weekly Log Info:

Site Check Date	
NDA Grounds Check	
TGA Grounds Check	
SDA Grounds Check	
SDA Plant Check	

Flow Rate In, GPM (P1 or P2)	
Flow Rate Out, GPM (P1 or P2)	
Bag Filter PSI (In/Out)	
Sequestering Agent Level, in.	
GW Trench Pump Setpoints (On/Off)	

Site Notes:

ROCHESTER FIRE TRAINING ACADEMY
GROUNDWATER TREATMENT OPERATORS LOG

WEEK OF: 6/8/2021

Daily Log Info:

Date:	6/8/21	6/9/21	6/10/21	6/11/21	6/12/21	6/13/21	6/14/21
Daily Discharge (gal)	2550	1630	2020	2210	2280	2450	1700
Total Flow Year-To-Date (gal)	436,087	437,695	439,684	441,874	444,104	446,503	448,179
Alarms							

Weekly Log Info:

Site Check Date	6/8/21
NDA Grounds Check	
TGA Grounds Check	
SDA Grounds Check	
SDA Plant Check	

Flow Rate In, GPM (P1 or P2)	
Flow Rate Out, GPM (P1 or P2)	
Bag Filter PSI (In/Out)	
Sequestering Agent Level, in.	
GW Trench Pump Setpoints (On/Off)	

Site Notes: MCPW on-site for their annual sampling
City performed effluent sampling 6/8/21 too

ROCHESTER FIRE TRAINING ACADEMY
GROUNDWATER TREATMENT OPERATORS LOG

WEEK OF: 6/15/2021

Daily Log Info:

Date:	6/15/21	6/16/21	6/17/21	6/18/21	6/19/21	6/20/21	6/21/21
Daily Discharge (gal)	2090	1940	3270	830	2280	2080	2020
Total Flow Year-To-Date (gal)	450,256	452,141	455,391	456,184	458,455	460,536	462,467
Alarms							

Weekly Log Info:

Site Check Date	
NDA Grounds Check	
TGA Grounds Check	
SDA Grounds Check	
SDA Plant Check	

Flow Rate In, GPM (P1 or P2)	
Flow Rate Out, GPM (P1 or P2)	
Bag Filter PSI (In/Out)	
Sequestering Agent Level, in.	
GW Trench Pump Setpoints (On/Off)	

Site Notes:

6/17 - Start new sequestering agent

ROCHESTER FIRE TRAINING ACADEMY
GROUNDWATER TREATMENT OPERATORS LOG

WEEK OF: 6/22/21

Daily Log Info:

Date:	6/22/21	6/23/21	6/24/21	6/25/21	6/26/21	6/27/21	6/28/21
Daily Discharge (gal)	2070	1900	1780	2200	1040	2370	1950
Total Flow Year-To-Date (gal)	464,514	466,827	468,582	470,767	471,804	474,139	476,050
Alarms							

Weekly Log Info:

Site Check Date	
NDA Grounds Check	
TGA Grounds Check	
SDA Grounds Check	
SDA Plant Check	

Flow Rate In, GPM (P1 or P2)	
Flow Rate Out, GPM (P1 or P2)	
Bag Filter PSI (In/Out)	
Sequestering Agent Level, in.	
GW Trench Pump Setpoints (On/Off)	

Site Notes:

ROCHESTER FIRE TRAINING ACADEMY
GROUNDWATER TREATMENT OPERATORS LOG

WEEK OF: 6/29/21

Daily Log Info:

Date:	6/29/21	6/30/21	~~31~~				
Daily Discharge (gal)	2320	1290					
Total Flow Year-To-Date (gal)	478,361	479,646					
Alarms							

Weekly Log Info:

Site Check Date	
NDA Grounds Check	
TGA Grounds Check	
SDA Grounds Check	
SDA Plant Check	

Flow Rate In, GPM (P1 or P2)	
Flow Rate Out, GPM (P1 or P2)	
Bag Filter PSI (In/Out)	
Sequestering Agent Level, in.	
GW Trench Pump Setpoints (On/Off)	

Site Notes:

ROCHESTER FIRE TRAINING ACADEMY
GROUNDWATER TREATMENT OPERATORS LOG

WEEK OF: 7/1/21

Daily Log Info:

Date:	7/1/21	7/2/21	7/3/21	7/4/21	7/5/21	7/6/21	7/7/21
Daily Discharge (gal)	2320	2480	1870	1520	2270	1250	2730
Total Flow Year-To-Date (gal)	481,948	484,372	486,190	487,679	489,893	491,113	493,777
Alarms							

Weekly Log Info:

Site Check Date	7/7/21
NDA Grounds Check	
TGA Grounds Check	
SDA Grounds Check	
SDA Plant Check	

Flow Rate In, GPM (P1 or P2)	
Flow Rate Out, GPM (P1 or P2)	
Bag Filter PSI (In/Out)	
Sequestering Agent Level, in.	
GW Trench Pump Setpoints (On/Off)	

Site Notes:

ROCHESTER FIRE TRAINING ACADEMY
GROUNDWATER TREATMENT OPERATORS LOG

WEEK OF: 7/8/21

Daily Log Info:

Date:	7/8/21	7/9/21	7/10/21	7/11/21	7/12/21	7/13/21	7/14/21
Daily Discharge (gal)	1850	2360	1510	2400	1590	2590	1720
Total Flow Year-To-Date (gal)	495,587	497,897	499,383	501,718	503,308 ~~505,873~~	505,873	507,582
Alarms							

Weekly Log Info:

Site Check Date	7/12/21
NDA Grounds Check	
TGA Grounds Check	
SDA Grounds Check	
SDA Plant Check	

Flow Rate In, GPM (P1 or P2)	
Flow Rate Out, GPM (P1 or P2)	
Bag Filter PSI (In/Out)	
Sequestering Agent Level, in.	
GW Trench Pump Setpoints (On/Off)	

Site Notes: Heavy rain over the weekend; a lot of rain expected this week

7/14/21 – change to 2nd 5-gal bucket of sequestering agent

7/15/21 - 1:15pm on arrival - Discharge Pump #1 Running but at 0 GPM (no flow) Looked at sight glass + no water present + floats down. Move Gem Sensor wand + pump stops.

At PLC – Red high level for Air stripper even though AS tub is empty. No Alarms

Need to Fix ① wobble in Gem Sensor tree ② A.S. High Level message on PLC

ROCHESTER FIRE TRAINING ACADEMY
GROUNDWATER TREATMENT OPERATORS LOG

WEEK OF: 7/15/2021

Daily Log Info:

Date:	7/15/21	7/16/21	7/17/21	7/18/21	7/19/21	7/20/21	7/21/21
Daily Discharge (gal)	2680	1870	6740	11,820	4960	3200	2580
Total Flow Year-To-Date (gal)	510,252	512,087	518,747	530,359	535,244	538,395	541,254
Alarms							

Weekly Log Info:

Site Check Date	
NDA Grounds Check	
TGA Grounds Check	
SDA Grounds Check	
SDA Plant Check	

Flow Rate In, GPM (P1 or P2)	
Flow Rate Out, GPM (P1 or P2)	
Bag Filter PSI (In/Out)	
Sequestering Agent Level, in.	
GW Trench Pump Setpoints (On/Off)	

Site Notes:

Sat 7/17/21 Heavy rain

ROCHESTER FIRE TRAINING ACADEMY
GROUNDWATER TREATMENT OPERATORS LOG

WEEK OF: 7/22/21

Daily Log Info:

Date:	7/22/21	7/23/21	7/24/21	7/25/21	7/26/21	7/27/21	7/28/21
Daily Discharge (gal)	2810	990	0	0	0	8830	3560
Total Flow Year-To-Date (gal)	544,012	545,000	545,000	545,000	545,000	553,704	557,215
Alarms							

Weekly Log Info:

Site Check Date	
NDA Grounds Check	
TGA Grounds Check	
SDA Grounds Check	
SDA Plant Check	

Flow Rate In, GPM (P1 or P2)	
Flow Rate Out, GPM (P1 or P2)	
Bag Filter PSI (In/Out)	
Sequestering Agent Level, in.	
GW Trench Pump Setpoints (On/Off)	

Site Notes:

7/23 0800 call from MCC - pump problem at TGA pump station, Need to shut off RFA treatment system until resolved

7/27 Back online

ROCHESTER FIRE TRAINING ACADEMY
GROUNDWATER TREATMENT OPERATORS LOG

WEEK OF: 7/29/21

Daily Log Info:

Date:	7/29/21	7/30/21	7/31/21 ~~31~~				
Daily Discharge (gal)	3160 ~~60,346~~	2070	2790				
Total Flow Year-To-Date (gal)	560,346	562,376	565,148				
Alarms							

Weekly Log Info:

Site Check Date	
NDA Grounds Check	
TGA Grounds Check	
SDA Grounds Check	
SDA Plant Check	

Flow Rate In, GPM (P1 or P2)	
Flow Rate Out, GPM (P1 or P2)	
Bag Filter PSI (In/Out)	
Sequestering Agent Level, in.	
GW Trench Pump Setpoints (On/Off)	

Site Notes:

ROCHESTER FIRE TRAINING ACADEMY
GROUNDWATER TREATMENT OPERATORS LOG

WEEK OF: 8/1/2021

Daily Log Info:

Date:	8/1/21	8/2/21	8/3/21	8/4/21	8/5/21	8/6/21	8/7/21
Daily Discharge (gal)	1990	2280	2000	3090	900	0	0
Total Flow Year-To-Date (gal)	567,107	569,376	571,343	574,393	575,263	→	→
Alarms							

Weekly Log Info:

Site Check Date	
NDA Grounds Check	
TGA Grounds Check	
SDA Grounds Check	
SDA Plant Check	

Flow Rate In, GPM (P1 or P2)	
Flow Rate Out, GPM (P1 or P2)	
Bag Filter PSI (In/Out)	
Sequestering Agent Level, in.	30.6" 8/4/21
GW Trench Pump Setpoints (On/Off)	

Site Notes:

8/4/2021 New 55-gal drum sequestering agent delivered
8/5/21 call from MCC - Main sewer line may be blocked, they requested we stop discharging until the block can be cleared

Aug 27

ROCHESTER FIRE TRAINING ACADEMY
GROUNDWATER TREATMENT OPERATORS LOG

WEEK OF: 8/8/21

Daily Log Info:

Date:	8/8/21	8/9/21	8/10/21	8/11/21	8/12/21	8/13/21	8/14/21
Daily Discharge (gal)	0	0	0	0	0	14,320	2610
Total Flow Year-To-Date (gal)	→	→	→	→	575,263	589,358	591,941
Alarms							

Weekly Log Info:

Site Check Date	
NDA Grounds Check	
TGA Grounds Check	
SDA Grounds Check	
SDA Plant Check	

Flow Rate In, GPM (P1 or P2)	
Flow Rate Out, GPM (P1 or P2)	
Bag Filter PSI (In/Out)	
Sequestering Agent Level, in.	
GW Trench Pump Setpoints (On/Off)	

Site Notes: 8/13/21 ~9:00AM MCC has cleared sewer line, restart treatment plant

ROCHESTER FIRE TRAINING ACADEMY
GROUNDWATER TREATMENT OPERATORS LOG

WEEK OF: 8/15/2021

Daily Log Info:

Date:	8/15/21	8/16/21	8/17/21	8/18/21	8/19/21	8/20/21	8/21/21
Daily Discharge (gal)	2200	2060	2230	2150	1980	2070	2190
Total Flow Year-To-Date (gal)	594,115	596,126	598,347	600,474	602,412	604,462	606,638
Alarms							

Weekly Log Info:

Site Check Date	
NDA Grounds Check	
TGA Grounds Check	
SDA Grounds Check	
SDA Plant Check	

Flow Rate In, GPM (P1 or P2)	
Flow Rate Out, GPM (P1 or P2)	
Bag Filter PSI (In/Out)	
Sequestering Agent Level, in.	30.6 8/19 ~~34~~
GW Trench Pump Setpoints (On/Off)	

Site Notes:

31.1

ROCHESTER FIRE TRAINING ACADEMY
GROUNDWATER TREATMENT OPERATORS LOG

WEEK OF: 8/22/2021

Daily Log Info:

Date:	8/22/21	8/23/21	8/24/21	8/25/21	8/26/21	8/27/21	8/28/21
Daily Discharge (gal)	2340	1930	3100	1850	2320	1370	2760
Total Flow Year-To-Date (gal)	608,951	610,864	613,905	615,749	618,066	619,421	622,154
Alarms							

Weekly Log Info:

Site Check Date	
NDA Grounds Check	
TGA Grounds Check	
SDA Grounds Check	
SDA Plant Check	

Flow Rate In, GPM (P1 or P2)	
Flow Rate Out, GPM (P1 or P2)	
Bag Filter PSI (In/Out)	
Sequestering Agent Level, in.	
GW Trench Pump Setpoints (On/Off)	

Site Notes:

ROCHESTER FIRE TRAINING ACADEMY
GROUNDWATER TREATMENT OPERATORS LOG

WEEK OF: 8/29/2021

Daily Log Info:

Date:	8/29/21	8/30/21	8/31/21				
Daily Discharge (gal)	1460	2500	1950				
Total Flow Year-To-Date (gal)	623,603	626,080	628,029				
Alarms							

Weekly Log Info:

Site Check Date	
NDA Grounds Check	
TGA Grounds Check	
SDA Grounds Check	
SDA Plant Check	

Flow Rate In, GPM (P1 or P2)	
Flow Rate Out, GPM (P1 or P2)	
Bag Filter PSI (In/Out)	
Sequestering Agent Level, in.	
GW Trench Pump Setpoints (On/Off)	

Site Notes:

ROCHESTER FIRE TRAINING ACADEMY
GROUNDWATER TREATMENT OPERATORS LOG

WEEK OF: 9/1/2021

Daily Log Info:

Date:	9/1/21	9/2/21	9/3/21	9/4/21	9/5/21	9/6/21	9/7/21
Daily Discharge (gal)	2350	1970	2290	1920	2280	1450	2500
Total Flow Year-To-Date (gal)	630,346	632,292	634,560	636,452	638,716	640,135	642,576
Alarms							

Weekly Log Info:

Site Check Date	
NDA Grounds Check	
TGA Grounds Check	
SDA Grounds Check	
SDA Plant Check	

Flow Rate In, GPM (P1 or P2)	
Flow Rate Out, GPM (P1 or P2)	
Bag Filter PSI (In/Out)	
Sequestering Agent Level, in.	30.4 (9/2) 29.9 (9/7)
GW Trench Pump Setpoints (On/Off)	

Site Notes:

ROCHESTER FIRE TRAINING ACADEMY
GROUNDWATER TREATMENT OPERATORS LOG

WEEK OF: 9/8/2021

Daily Log Info:

Date:	9/8/21	9/9/21	9/10/21	9/11/21	9/12/21	9/13/21	9/14/21
Daily Discharge (gal)	1510	2500	1890	2230	1820	2340	1790
Total Flow Year-To-Date (gal)	644,069	646,557	648,439	650,638	652,432	654,744	656,493
Alarms							

Weekly Log Info:

Site Check Date	
NDA Grounds Check	
TGA Grounds Check	
SDA Grounds Check	
SDA Plant Check	

Flow Rate In, GPM (P1 or P2)	
Flow Rate Out, GPM (P1 or P2)	
Bag Filter PSI (In/Out)	
Sequestering Agent Level, in.	29.4" 9/13
GW Trench Pump Setpoints (On/Off)	

Site Notes:

9/12 Heavy rain at night

ROCHESTER FIRE TRAINING ACADEMY
GROUNDWATER TREATMENT OPERATORS LOG

WEEK OF: 9/15/2021

Daily Log Info:

Date:	9/15/21	9/16/21	9/17/21	9/18/21	9/19/21	9/20/21	9/21/21
Daily Discharge (gal)	2160	1730	2000	1560	2880	1750	2390
Total Flow Year-To-Date (gal)	658,631	660,332	662,290	663,844	666,703	668,441	670,791
Alarms							

Weekly Log Info:

Site Check Date	
NDA Grounds Check	
TGA Grounds Check	
SDA Grounds Check	
SDA Plant Check	

Flow Rate In, GPM (P1 or P2)	
Flow Rate Out, GPM (P1 or P2)	
Bag Filter PSI (In/Out)	
Sequestering Agent Level, in.	28.7" 9/20/21
GW Trench Pump Setpoints (On/Off)	

Site Notes:

ROCHESTER FIRE TRAINING ACADEMY
GROUNDWATER TREATMENT OPERATORS LOG

WEEK OF: 9/22/21

Daily Log Info:

Date:	9/22/21	9/23/21	9/24/21	9/25/21	9/26/21	9/27/21	9/28/21
Daily Discharge (gal)	1430	2320	2170	2390	1900	2320	1960
Total Flow Year-To-Date (gal)	672,165	674,464	676,608	678,979	680,860	683,163	685,092
Alarms							

Weekly Log Info:

Site Check Date	
NDA Grounds Check	
TGA Grounds Check	
SDA Grounds Check	
SDA Plant Check	

Flow Rate In, GPM (P1 or P2)	
Flow Rate Out, GPM (P1 or P2)	
Bag Filter PSI (In/Out)	
Sequestering Agent Level, in.	28.0 9/28
GW Trench Pump Setpoints (On/Off)	

Site Notes:

9/23/21 Steady rain

ROCHESTER FIRE TRAINING ACADEMY
GROUNDWATER TREATMENT OPERATORS LOG

WEEK OF: 9/29/21

Daily Log Info:

Date:	9/29/21	9/30/21	~~9/31/21~~				
Daily Discharge (gal)	2440	1660					
Total Flow Year-To-Date (gal)	687,491	689,126					
Alarms							

Weekly Log Info:

Site Check Date	
NDA Grounds Check	
TGA Grounds Check	
SDA Grounds Check	
SDA Plant Check	

Flow Rate In, GPM (P1 or P2)	
Flow Rate Out, GPM (P1 or P2)	
Bag Filter PSI (In/Out)	
Sequestering Agent Level, in.	
GW Trench Pump Setpoints (On/Off)	

Site Notes: 9/30/2021 - sample b plant for effluent only

ROCHESTER FIRE TRAINING ACADEMY
GROUNDWATER TREATMENT OPERATORS LOG

WEEK OF: 10/1/2021

Daily Log Info:

Date:	10/1/21	10/2/21	10/3/21	10/4/21	10/5/21	10/6/21	10/7/21
Daily Discharge (gal)	2600	1750	2050	2160	2260	2090	2490
Total Flow Year-To-Date (gal)	691,693	693,403	695,453	697,574	699,815	701,865	704,275
Alarms							

Weekly Log Info:

Site Check Date	
NDA Grounds Check	
TGA Grounds Check	
SDA Grounds Check	
SDA Plant Check	

Flow Rate In, GPM (P1 or P2)	
Flow Rate Out, GPM (P1 or P2)	
Bag Filter PSI (In/Out)	
Sequestering Agent Level, in.	27.3 10/5/21
GW Trench Pump Setpoints (On/Off)	

Site Notes:

ROCHESTER FIRE TRAINING ACADEMY
GROUNDWATER TREATMENT OPERATORS LOG

WEEK OF: 10/8/2021

Daily Log Info:

Date:	10/8/21	10/9/21	10/10/21	10/11/21	10/12/21	10/13/21	10/14/21
Daily Discharge (gal)	2220	2510	1660	2470	1920	2170	1800
Total Flow Year-To-Date (gal)	706,469	708,975	710,592	713,008	714,901	717,748	719,230
Alarms							

Weekly Log Info:

Site Check Date	
NDA Grounds Check	
TGA Grounds Check	
SDA Grounds Check	
SDA Plant Check	

Flow Rate In, GPM (P1 or P2)	P2 58 10/12/21
Flow Rate Out, GPM (P1 or P2)	
Bag Filter PSI (In/Out)	
Sequestering Agent Level, in.	26.6 10/12/21
GW Trench Pump Setpoints (On/Off)	

Site Notes:

ROCHESTER FIRE TRAINING ACADEMY
GROUNDWATER TREATMENT OPERATORS LOG

WEEK OF: 10/15/2021

Daily Log Info:

Date:	10/15/21	10/16/21	10/17/21	10/18/21	10/19/21	10/20/21	10/21/21
Daily Discharge (gal)	2470	5620	4760	3300	3520	2330	3020
Total Flow Year-To-Date (gal)	721,681	727,228	731,959	735,207	738,695	740,995	743,948
Alarms							

Weekly Log Info:

Site Check Date	
NDA Grounds Check	
TGA Grounds Check	
SDA Grounds Check	
SDA Plant Check	

Flow Rate In, GPM (P1 or P2)	P2 58 10/22/21
Flow Rate Out, GPM (P1 or P2)	
Bag Filter PSI (In/Out)	
Sequestering Agent Level, in.	25.1 10/22/21
GW Trench Pump Setpoints (On/Off)	

Site Notes:

ROCHESTER FIRE TRAINING ACADEMY
GROUNDWATER TREATMENT OPERATORS LOG

WEEK OF: 10/22/2021

Daily Log Info:

Date:	10/22/21	10/23/21	10/24/21	10/25/21	10/26/21	10/27/21	10/28/21
Daily Discharge (gal)	2530	2460	2280	3060	6430	12,800	5320
Total Flow Year-To-Date (gal)	746,428	748,868	751,109	754,120	760,475	773,010	778,291
Alarms							

Weekly Log Info:

Site Check Date	
NDA Grounds Check	
TGA Grounds Check	
SDA Grounds Check	
SDA Plant Check	

Flow Rate In, GPM (P1 or P2)	
Flow Rate Out, GPM (P1 or P2)	
Bag Filter PSI (In/Out)	
Sequestering Agent Level, in.	10/22/21 25.1"
GW Trench Pump Setpoints (On/Off)	

Site Notes: Sampled effluent 10/28/2021
10/26/21 NorEaster ~ 1.8" Rain

ROCHESTER FIRE TRAINING ACADEMY
GROUNDWATER TREATMENT OPERATORS LOG

WEEK OF: 10/29/2021

Daily Log Info:

Date:	10/29/21	10/30/21	10/31/21				
Daily Discharge (gal)	4600	18,730	7840				
Total Flow Year-To-Date (gal)	782,837	801,245	809,984				
Alarms							

Weekly Log Info:

Site Check Date	
NDA Grounds Check	
TGA Grounds Check	
SDA Grounds Check	
SDA Plant Check	

Flow Rate In, GPM (P1 or P2)	
Flow Rate Out, GPM (P1 or P2)	
Bag Filter PSI (In/Out)	
Sequestering Agent Level, in.	11/1/21 21.8"
GW Trench Pump Setpoints (On/Off)	

Site Notes:

10/29 + 10/30 Heavy rain

ROCHESTER FIRE TRAINING ACADEMY
GROUNDWATER TREATMENT OPERATORS LOG

WEEK OF: 11/1/2021

Daily Log Info:

Date:	11/1/21	11/2/2021	11/3/21	11/4/21	11/5/21	11/6/21	11/7/21
Daily Discharge (gal)	5100	4580	3510	3840	2860	3310	2730
Total Flow Year-To-Date (gal)	813,962	818,496	821,965	825,774	828,613	831,861	834,542
Alarms							

Weekly Log Info:

Site Check Date	
NDA Grounds Check	
TGA Grounds Check	
SDA Grounds Check	
SDA Plant Check	

Flow Rate In, GPM (P1 or P2)	
Flow Rate Out, GPM (P1 or P2)	
Bag Filter PSI (In/Out)	
Sequestering Agent Level, in.	21.8" 11/1/21
GW Trench Pump Setpoints (On/Off)	

Site Notes:

ROCHESTER FIRE TRAINING ACADEMY
GROUNDWATER TREATMENT OPERATORS LOG

WEEK OF: 11/8/2021

Daily Log Info:

Date:	11/8/21	11/9/21	11/10/21	11/11/21	11/12/21	11/13/21	11/14/21
Daily Discharge (gal)	2970	2850	3080	2610	2620	2730	3080
Total Flow Year-To-Date (gal)	837,470	840,302	843,351	845,944	848,527	851,192	854,242
Alarms							

Weekly Log Info:

Site Check Date	
NDA Grounds Check	
TGA Grounds Check	
SDA Grounds Check	
SDA Plant Check	

Flow Rate In, GPM (P1 or P2)	
Flow Rate Out, GPM (P1 or P2)	
Bag Filter PSI (In/Out)	
Sequestering Agent Level, in.	11/9 20.9"
GW Trench Pump Setpoints (On/Off)	

Site Notes:

ROCHESTER FIRE TRAINING ACADEMY
GROUNDWATER TREATMENT OPERATORS LOG

WEEK OF: 11/15/2021

Daily Log Info:

Date:	11/15/21	11/16/21	11/17/21	11/18/21	11/19/21	11/20/21	11/21/21
Daily Discharge (gal)	2790	4040	3510	4040	3190	3870	3230
Total Flow Year-To-Date (gal)	857,009	860,999	864,468	868,461	871,628	875,474	878,638
Alarms							

Weekly Log Info:

Site Check Date	
NDA Grounds Check	
TGA Grounds Check	
SDA Grounds Check	
SDA Plant Check	

Flow Rate In, GPM (P1 or P2)	
Flow Rate Out, GPM (P1 or P2)	
Bag Filter PSI (In/Out)	
Sequestering Agent Level, in.	11/17/21 19.7"
GW Trench Pump Setpoints (On/Off)	

Site Notes:

HD 09001

ROCHESTER FIRE TRAINING ACADEMY
GROUNDWATER TREATMENT OPERATORS LOG

WEEK OF: 11/22/2021

Daily Log Info:

Date:	11/22/21	11/23/21	11/24/21	11/25/21	11/26/21	11/27/21	11/28/21
Daily Discharge (gal)	3710	2560	3380	2540	3140	2610	3190
Total Flow Year-To-Date (gal)	882,269	884,784	888,096	890,606	893,722	896,301	899,450
Alarms							

Weekly Log Info:

Site Check Date	
NDA Grounds Check	
TGA Grounds Check	
SDA Grounds Check	
SDA Plant Check	

Flow Rate In, GPM (P1 or P2)	
Flow Rate Out, GPM (P1 or P2)	
Bag Filter PSI (In/Out)	
Sequestering Agent Level, in.	18.2" 11/24/21
GW Trench Pump Setpoints (On/Off)	

Site Notes:

ROCHESTER FIRE TRAINING ACADEMY
GROUNDWATER TREATMENT OPERATORS LOG

WEEK OF: 11/29/2021

Daily Log Info:

Date:	11/29/21	11/30/21	~~#31~~				
Daily Discharge (gal)	2650	2900					
Total Flow Year-To-Date (gal)	902,027	904,904					
Alarms							

Weekly Log Info:

Site Check Date	
NDA Grounds Check	
TGA Grounds Check	
SDA Grounds Check	
SDA Plant Check	

Flow Rate In, GPM (P1 or P2)	
Flow Rate Out, GPM (P1 or P2)	
Bag Filter PSI (In/Out)	
Sequestering Agent Level, in.	17.2 12/1/21
GW Trench Pump Setpoints (On/Off)	

Site Notes: sampled influent + effluent 11/30/2021

ROCHESTER FIRE TRAINING ACADEMY
GROUNDWATER TREATMENT OPERATORS LOG

WEEK OF: 12/1/2021

Daily Log Info:

Date:	12/1/21	12/2/21	12/3/21	12/4/21	12/5/21	12/6/21	12/7/21
Daily Discharge (gal)	2780	2900	2560	3120	2340	2930	2590
Total Flow Year-To-Date (gal)	907,657	910,515	913,054	916,135	918,417	921,310	923,869
Alarms							

Weekly Log Info:

Site Check Date	
NDA Grounds Check	
TGA Grounds Check	
SDA Grounds Check	
SDA Plant Check	

Flow Rate In, GPM (P1 or P2)	20 P1 12/6
Flow Rate Out, GPM (P1 or P2)	
Bag Filter PSI (In/Out)	
Sequestering Agent Level, in.	17.2 12/1
GW Trench Pump Setpoints (On/Off)	

Site Notes:

ROCHESTER FIRE TRAINING ACADEMY
GROUNDWATER TREATMENT OPERATORS LOG

WEEK OF: 12/8/2021

Daily Log Info:

Date:	12/8/21	12/9/21	12/10/21	12/11/21	12/12/21	12/13/21	12/14/21
Daily Discharge (gal)	3150	2400	2830	2160	3180	2560	2780
Total Flow Year-To-Date (gal)	926,960	929,313	932,115	934,262	937,423	939,944	942,702
Alarms							

Weekly Log Info:

Site Check Date	
NDA Grounds Check	
TGA Grounds Check	
SDA Grounds Check	
SDA Plant Check	

Flow Rate In, GPM (P1 or P2)	
Flow Rate Out, GPM (P1 or P2)	
Bag Filter PSI (In/Out)	
Sequestering Agent Level, in.	15.6 12/13
GW Trench Pump Setpoints (On/Off)	

Site Notes: sampled effluent 12/13/2021

ROCHESTER FIRE TRAINING ACADEMY
GROUNDWATER TREATMENT OPERATORS LOG

WEEK OF: 12/15/2021

Daily Log Info:

Date:	12/15/21	12/16/21	12/17/21	12/18/21	12/19/21	12/20/21	12/21/21
Daily Discharge (gal)	2420	3260	2500	2940	2710	3660	2800
Total Flow Year-To-Date (gal)	945,109	948,154	950,618	953,525	956,166	959,805	962,568
Alarms							

Weekly Log Info:

Site Check Date	
NDA Grounds Check	
TGA Grounds Check	
SDA Grounds Check	
SDA Plant Check	

Flow Rate In, GPM (P1 or P2)	
Flow Rate Out, GPM (P1 or P2)	
Bag Filter PSI (In/Out)	
Sequestering Agent Level, in.	14.6 12/21
GW Trench Pump Setpoints (On/Off)	

Site Notes:

W × L × H
41 × 69 × 30 H

ROCHESTER FIRE TRAINING ACADEMY
GROUNDWATER TREATMENT OPERATORS LOG

WEEK OF: 12/22/2021
merry xmas :)

Daily Log Info:

Date:	12/22/21	12/23/21	12/24/21	12/25/21	12/26/21	12/27/21	12/28/21
Daily Discharge (gal)	2900	2940	2840	5170	5570	3310	3900
Total Flow Year-To-Date (gal)	965,456	968,357	971,148	976,275	981,791	985,081	988,933
Alarms							

Weekly Log Info:

Site Check Date	
NDA Grounds Check	
TGA Grounds Check	
SDA Grounds Check	
SDA Plant Check	

Flow Rate In, GPM (P1 or P2)	
Flow Rate Out, GPM (P1 or P2)	
Bag Filter PSI (In/Out)	
Sequestering Agent Level, in.	
GW Trench Pump Setpoints (On/Off)	

Site Notes:

ROCHESTER FIRE TRAINING ACADEMY
GROUNDWATER TREATMENT OPERATORS LOG

WEEK OF: 12/29/2021

Daily Log Info:

Date:	12/29/21	12/30/21	12/31/21				
Daily Discharge (gal)	2870	3540	3090				
Total Flow Year-To-Date (gal)	991,794	995,328	998,375				
Alarms							

Weekly Log Info:

Site Check Date	
NDA Grounds Check	
TGA Grounds Check	
SDA Grounds Check	
SDA Plant Check	

Flow Rate In, GPM (P1 or P2)	
Flow Rate Out, GPM (P1 or P2)	
Bag Filter PSI (In/Out)	
Sequestering Agent Level, in.	
GW Trench Pump Setpoints (On/Off)	

Site Notes:

APPENDIX E

IC/EC CERTIFICATION

Enclosure 2

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
Site Management Periodic Review Report Notice
Institutional and Engineering Controls Certification Form

Site Details **Box 1**

Site No. **828015**

Site Name Rochester Fire Academy

Site Address: ~~XXX~~ 1200 Scottsville Road Zip Code: 14624
City/Town: Rochester
County: Monroe
Site Acreage: 11.0

Reporting Period: December 31, ~~XXXX~~ 2020 to December 31, ~~XXXX~~ 2021

	YES	NO
1. Is the information above correct?	X	
If NO, include handwritten above or on a separate sheet.		
2. Has some or all of the site property been sold, subdivided, merged, or undergone a tax map amendment during this Reporting Period?	X *	
*the Declaration of Covenants and Restrictions was revised by the City in 2021 and filed with Monroe County Clerks' office to reflect real property changes at the site including the Site's new property address (1200 Scottsville Road) and parcel tax map number (Section Block Lot #135180000200200000000).		
3. Has there been any change of use at the site during this Reporting Period (see 6NYCRR 375-1.11(d))?		X
4. Have any federal, state, and/or local permits (e.g., building, discharge) been issued for or at the property during this Reporting Period?		X
If you answered YES to questions 2 thru 4, include documentation or evidence that documentation has been previously submitted with this certification form. (See Periodic Review Report Appendix F)		
5. Is the site currently undergoing development?		X

Box 2

	YES	NO
6. Is the current site use consistent with the use(s) listed below? Closed Landfill	X	
7. Are all ICs/ECs in place and functioning as designed?	X	

IF THE ANSWER TO EITHER QUESTION 6 OR 7 IS NO, sign and date below and DO NOT COMPLETE THE REST OF THIS FORM. Otherwise continue.

A Corrective Measures Work Plan must be submitted along with this form to address these issues.

Signature of Owner, Remedial Party or Designated Representative Date

SITE NO. 828015

Box 3

Description of Institutional Controls

Parcel	Owner	Institutional Control
135.180-0001-001.000	CITY OF ROCHESTER	Landuse Restriction Monitoring Plan O&M Plan

2016-12
~~1998~~ 2003 approved OM&M plan to monitor pump and treat system and insure cap and fencing are maintained.
Deed restriction filed March 1998 whcih required the City of Rochester (or successors and assigns) to maintain the remedial system.

Box 4

Description of Engineering Controls

Parcel	Engineering Control
135.180-0001-001.000	Groundwater Treatment System Fencing/Access Control Cover System

Asphalt cover over ~~stabilized soil~~ Training Grounds Area
Cap over the North Disposal Area
Groundwater pump and treat system
Monitoring wells

Box 5

Periodic Review Report (PRR) Certification Statements

1. I certify by checking "YES" below that:

   a) the Periodic Review report and all attachments were prepared under the direction of, and reviewed by, the party making the certification;

   b) to the best of my knowledge and belief, the work and conclusions described in this certification are in accordance with the requirements of the site remedial program, and generally accepted engineering practices; and the information presented is accurate and compete.

YES	NO
X	☐

2. If this site has an IC/EC Plan (or equivalent as required in the Decision Document), for each Institutional or Engineering control listed in Boxes 3 and/or 4, I certify by checking "YES" below that all of the following statements are true:

   (a) the Institutional Control and/or Engineering Control(s) employed at this site is unchanged since the date that the Control was put in-place, or was last approved by the Department;

   (b) nothing has occurred that would impair the ability of such Control, to protect public health and the environment;

   (c) access to the site will continue to be provided to the Department, to evaluate the remedy, including access to evaluate the continued maintenance of this Control;

   (d) nothing has occurred that would constitute a violation or failure to comply with the Site Management Plan for this Control; and

   (e) if a financial assurance mechanism is required by the oversight document for the site, the mechanism remains valid and sufficient for its intended purpose established in the document.

YES	NO
X *	☐

*Note: Revision to restrictive covenants site boundaries legal description to be completed in 2021.

IF THE ANSWER TO QUESTION 2 IS NO, sign and date below and DO NOT COMPLETE THE REST OF THIS FORM. Otherwise continue.

A Corrective Measures Work Plan must be submitted along with this form to address these issues.

Signature of Owner, Remedial Party or Designated Representative

Date

IC CERTIFICATIONS
SITE NO. 828015

Box 6

SITE OWNER OR DESIGNATED REPRESENTATIVE SIGNATURE

I certify that all information and statements in Boxes 1,2, and 3 are true. I understand that a false statement made herein is punishable as a Class "A" misdemeanor, pursuant to Section 210.45 of the Penal Law.

I Anne Spaulding (print name) at 30 Church Street, Room 300B, Rochester, NY 14614 (print business address),

am certifying as Manager of Environmental Quality, City of Rochester (Owner or Remedial Party)

for the Site named in the Site Details Section of this form.

Anne Spaulding

Signature of Owner, Remedial Party, or Designated Representative Rendering Certification

1/26/2022

Date

IC/EC CERTIFICATIONS

Box 7

Professional Engineer Signature

I certify that all information in Boxes 4 and 5 are true. I understand that a false statement made herein is punishable as a Class "A" misdemeanor, pursuant to Section 210.45 of the Penal Law.

I Barton F. Kline (print name) at Day Environmental, Inc., 1563 Lyell Ave, Rochester, NY 14606 (print business address)

am certifying as a Professional Engineer for the City of Rochester, New York (Owner or Remedial Party)

B.F. Kline — Signature of Professional Engineer, for the Owner or Remedial Party, Rendering Certification

Stamp (Required for PE)

1/21/22 — Date

APPENDIX F

CORRECTION DECLARATION OF COVENANTS AND RESTRICTIONS

Jamie Romeo, County Clerk
Monroe County Clerk
39 West Main Street
Rochester, NY 14614

Receipt #: 2926630
Transaction #: 8719878
Transaction Date: 12/10/2021 11:02:00 AM
Payment Comment:

Fees for: DECLARATION OF RESTRICTION AND COVENANTS $0.00

Book / Page: D 12598 0548
Instrument #: 202112100398
Ref #: TT0000009429
Recorded: 12/10/2021 11:02:00 AM

Recording Fee	$26.00
Pages Fee	$120.00
State Fee Cultural Education	$14.25
State Fee Records Management	$4.75
TP-584 Form Fee	$5.00

ROCHESTER CITY OF,
NYS DEPARTMENT OF ENVIORNMENTAL CONSERVATION,

NYS DEPARTMENT OF ENVIORNMENTAL CONSERVATION,

Total Charges for Transaction: $170.00

Payments Received:

Check (748190)	$170.00
Change	$0.00

Cashier: JI

RECORDED
Time: 11:02a

DEC 10 2021

Monroe County Clerk's Office

RECORD AND RETURN TO: BOX 36/CCP

COPY

CORRECTION DECLARATION OF COVENANTS AND RESTRICTIONS

This Correction Declaration of Covenants and Restrictions is being recorded to amend the Property Address, Section, Block, Lot No. / Tax Account No. and Schedule A referenced in Declaration of Covenants and Restrictions recorded in the office of the Monroe County Clerk on March 20, 1998 in **Liber 8985** of Deeds at **Page 203**.

THIS CORRECTION DECLARATION is made this 1st day of December, 2021, by the **CITY OF ROCHESTER**, a New York municipal corporation having its principal place of business in the State of New York, County of Monroe, at 30 Church Street, Rochester, New York.

WHEREAS, the City of Rochester is the owner of the real property and premises located in the State of New York and County of Monroe at 1200 Scottsville Road, Rochester, New York, and bearing Section Block Lot No. 135.18-2-2 (described in Schedule A hereto attached); and

WHEREAS, the City of Rochester and the New York State Department of Environmental Conservation have entered into a Consent Order regarding the remediation of hazardous waste on the property; and

NOW, THEREFORE, the City of Rochester hereby establishes the following restriction regarding the use of the property:

1. The City of Rochester, its heirs and/or successors in title and/or assigns shall be responsible for remediating hazardous waste on the property, pursuant to the provisions of the Consent Order, a copy of which is attached hereto and made a part hereof.

2. The above restriction shall run with the land, binding any subsequent successor in title to the property, or any person claiming thereunder, until such time as an instrument is recorded, releasing the successor in title from any further obligation under the Consent Order.

3. Such release may occur upon the expiration of thirty (30) years from the certification by the New York State Department of Environmental Conservation, that construction to the elements of the remedial design have been completed or upon expiration of the post-closure period referred to in the Consent Order, whichever is later.

IN WITNESS WHEREOF, the City of Rochester has hereunto set its hand the day and year first written above.

CITY OF ROCHESTER

By: _____
Patrick Beath, Deputy Corporation Counsel

STATE OF NEW YORK)
COUNTY OF MONROE)

On this 1st day of December 2021 before me, the undersigned, a notary public in and for said State, personally appeared **Patrick Beath**, personally known to me or proved to me on the basis of satisfactory evidence to be the individual whose name is subscribed to the within instrument and acknowledged to me that he executed the same in his capacity and that by his signature on the instrument, the individual or the person upon behalf of which the individual acted, executed the instrument.

_____
Notary Public

CHARIS PHELPS
NOTARY PUBLIC - MONROE COUNTY
NEW YORK STATE
COMMISSION EXPIRES 9/27, 2025

Property Address: Part of 1200 Scottsville Road, Rochester, New York
Tax Account Number: Part of 135.18.01-01

SCHEDULE A

BEING A PART OF
1200 SCOTTSVILLE ROAD

ALL THAT TRACT OR PARCEL OF LAND situate in the City of Rochester, County of Monroe, State of New York known and distinguished as a part of the Sixth Tract of the 3,000 Acre Tract and being more particularly bounded and described as follows:

Commencing at a point in the centerline of Scottsville Road and the northwest corner of property conveyed by Willie Britton and wife to James O'Neil on July 7, 1925 by deed filed in Liber 1257 of deeds at page 112 and also being 266.46 feet along said centerline from the south property line of lands owned formerly by the Pennsylvania Railroad; thence S 30° 01' 31" E along the northerly line of said O'Neil's land a distance of 574.97 feet to a point; Thence 1) S 30° 01' 31" E a distance of 112.31 feet to a point; Thence

2) Northerly and curving to the left with a radius of 935.37 feet and forming a central angle of 30°20'23" a chord bearing of N 2° 41' 56" E and chord distance of 489.54, a distance of 495.30 feet to a point of tangent; Thence 3) N 12° 28' 15" W a distance of 236.45 feet to the southerly line of Scottsville Road; Thence 4) N 59° 58' 29" E along the southerly line of Scottsville Road a distance of 62.93 feet to a point; Thence 5) S 12° 28' 15" E along the northerly line of lands owned formerly by the Pennsylvania Railroad a distance of 255.43 feet to a point of curvature; Thence 6) Southerly and curving to the right with a radius of 995.37 feet and forming a central angle of 23° 22' 01" a chord bearing of S 00° 47' 15" E and chord distance of 403.13 feet a distance of 405.94 feet to a point; Thence 7) Northeasterly and curving to the right with a radius of 562.5 feet and forming a central angle of 9° 38' 32" a chord bearing of N 46° 18' 11" E and a chord distance of 94.55 feet a distance of 94.66 feet to a point; Thence 8) N 51° 07' 27" E a distance of 138.73 feet to a point; Thence 9) N 51° 32' 27" E a distance of 571.24 feet to a point; Thence 10) S 39° 10' 55" E a distance of 146.35 feet to a point; Thence 11) S 51° 31' 27" W a distance of 326.00 feet to a point; Thence 12) S 50° 21' 37" W a distance of 64.01 feet to a point; Thence 13) S 49° 16' 05" W a distance of 66.05 feet to a point; Thence 14) S 53° 51' 02" W a distance of 64.05 feet to a point; Thence 15) S 55° 06' 01" W a distance of 64.12 feet to a point; Thence 16) S 52° 34' 52" W a distance of 52.50 feet to the true point or place of beginning;

Thence 1) S 48°22'14"E a distance of 217.38 feet to a point

Thence 2) S 34°01'42"W a distance of 216.95 feet to a point

Thence 3) S 34°15'01"W a distance of 416.81 feet to a point

Thence 4) S 39°55'03"W a distance of 181.50 feet to a point

Thence 5) S 46°14'43"W a distance of 239.91 feet to a point

Thence 6) S 57°27'34"W a distance of 153.35 feet to a point

Thence 7) S 65°22'39"W a distance of 66.98 feet to a point

Thence 8) S 73°25'33"W a distance of 37.40 feet to a point

Thence 9) S 78°04'08"W a distance of 283.54 feet to a point

Thence 10) S 78°10'19"W a distance of 90.84 feet to a point

Thence 11) S 39°36'57"W a distance of 7.87 feet to a point

Thence 12) S 69°45'56"W a distance of 18.91 feet to a point

Thence 13) N 71°04'45"W a distance of 10.86 feet to a point

Thence 14) S 72°36'28"W a distance of 98.85 feet to a point

Thence 15) S 70°26'09"W a distance of 91.21 feet to a point

Thence 16) S 69°40'48"W a distance of 106.46 feet to a point

Thence 17) N 18°21'26"W a distance of 138.83 feet to a point

Thence 18) N 75°41'03"E a distance of 40.71 feet to a point

Thence 19) N 62°50'40"E a distance of 27.37 feet to a point

Thence 20) N 39°25'09"E a distance of 20.39 feet to a point

Thence 21) N 67°25'25"E a distance of 339.92 feet to a point

Thence 22) N 17°23'35"W a distance of 28.04 feet to a point

Thence 23) N 64°18'51"E a distance of 59.22 feet to a point

Thence 24) N 58°21'23"E a distance of 144.76 feet to a point

Thence 25) N 49°39'18"E a distance of 234.73 feet to a point

Thence 26) N 43°51'48"E a distance of 290.64 feet to a point

Thence 27) N 41°40'49"E a distance of 169.96 feet to a point

Thence 28) N 37°23'55"E a distance of 103.41 feet to a point

Thence 29) N 41°39'16"E a distance of 31.89 feet to a point

Thence 30) S 43°50'30"E a distance of 27.28 feet to a point

Thence 31) N 59°50'20"E a distance of 14.11 feet to a point

Thence 32) N 45°33'04"E a distance of 106.94 feet to a point

Thence 33) N 40°03'35"E a distance of 26.69 feet to a point

Thence 34) N 44°58'06"W a distance of 30.72 feet to a point

Thence 35) N 52°02'00"E a distance of 46.95 feet to a point

Thence 36) N 52°08'11"E a distance of 198.08 feet to the true point and place of beginning

Hereby intending to describe a parcel of land containing 12.009 Acres of land more or less, following the perimeter fence around a portion of the Monroe County Fire Training Facility, as located in the field on January 13, 2020 by the City of Rochester Survey Office.

STATE OF NEW YORK: DEPARTMENT OF ENVIRONMENTAL CONSERVATION

In the Matter of the Development and Implementation of a Remedial Investigation, Feasibility Study and a Remedial Program For an Inactive Hazardous Waste Disposal Site Under Article 27, Title 13, of the Environmental Conservation Law of the State of New York (the "ECL") by:

ORDER ON CONSENT

THE CITY OF ROCHESTER

Respondent

INDEX NO. B8-0205-87-09
SITE #828015

WHEREAS:

1. The New York State Department of Environmental Conservation (the "Department") is responsible for the enforcement of Article 27, Title 13 of the Environmental Conservation Law of the State of New York (the "ECL"), entitled "Inactive Hazardous Waste Disposal Sites".

2. The City of Rochester ("Respondent") is a municipality in the State of New York, located within Monroe County.

3. Respondent owns real property located at 1190 Scottsville Road, in the City of Rochester, Monroe County, and operates a facility known as the Rochester Fire Academy at that location (the "Site"). A map of the Site is attached hereto as Appendix "A".

4. The Department alleges that during the course of operations at the Rochester Fire Academy, certain hazardous wastes were disposed of at the Site, while Respondent was the owner and operator of the Site.

5. The Department has listed the Site in the Registry of Inactive Hazardous Waste Disposal Sites in the State of New York as Site Number 8-28-015, and has classified it pursuant to ECL §27-1305 under Classification 2, a "significant threat to the public health or environment - action required".

6. Initial investigations at the Site have identified areas at the Site which exhibit elevated levels of some metals, other inorganic constituents, and organic constituents.

7. Pursuant to ECL Section 27-1313(3)(a), whenever the Commissioner of Environmental Conservation (the "Commissioner") "finds that hazardous wastes at an inactive hazardous waste disposal site constitute a significant threat to the environment, he may order the owner of such site and/or any person responsible for the disposal of hazardous wastes at such site (i) to develop an inactive hazardous waste disposal site remedial program subject to the approval of the department, at such site, and (ii) to implement such program within reasonable time limits specified in the order."

8. The Department and Respondent acknowledge that the goals of this Order shall be that Respondent shall develop and implement a remedial investigation, feasibility study and remedial program for an inactive hazardous waste disposal site, subject to the approval of the Department, and shall implement such program within the time limits specified

hereinafter. The program shall be developed and implemented to abate and eliminate any significant threat to the public health or environment.

9. Respondent, having waived its right to a hearing herein as provided by law, and having consented to the issuance and entry of this Order without any adjudication of fact or law and without admitting any liability except as may be incurred hereunder, agrees to be bound by the terms and conditions of this Order.

NOW, THEREFORE, having considered this matter and been duly advised, it is ORDERED THAT:

I. Respondent shall retain a third-party professional consultant, contractor and/or laboratory to perform the technical, engineering and analytical obligations required by this Order. The qualifications and professional expertise of any third party so employed shall be subject to the approval of the Department.

II. All submittals made by Respondent pursuant to this Order shall be subject to Departmental review and approval.

If the Department approves a submittal, Respondent shall perform the specified work or continue with Respondent's obligations under the Order in accordance with the terms of the approval and under the Department's supervision. The submittal once approved by the Department shall be appended to and made a part of this Order.

If the Department disapproves a submittal, the Department shall notify Respondent in writing of the reasons for such disapproval. Within 30 days of receipt of such notice, or such greater period as the Department may allow, the Respondent shall revise and resubmit the submittal, addressing each of the Department's objections. If the Department approves the revised submittal, Respondent shall perform the specified work or continue with Respondent's obligations under the Order in accordance with the terms of the approval and under the Department's supervision.

In the event that the approved Remedial Design requires modification during implementation, such modification must receive the prior written approval of the Department before incorporation of such modification into the approved Remedial Design.

If the Department disapproves any revised submittal, Respondent shall be in violation of this Order, not having submitted an approvable document in accordance with the terms of this Order.

III. Respondent shall undertake and complete the Remedial Investigation and Feasibility Study program for the Site in accordance with the plan which has been approved by the Department (the "Approved Proposal"). The Approved Proposal shall be attached hereto as Appendix "B" and shall be incorporated as a part of this Order. Respondent and any consultant, contractor or subcontractor shall conduct all activities in accordance with the procedures and protocols as

specified in the Approved Proposal.

IV. Within 90 days of the date specified for completion of the Remedial Investigation, Respondent shall submit to the Department a Remedial Investigation Report (the "Report"), founded upon its performance of the Remedial Investigation in accordance with the Approved Proposal. The Report shall include a certification by the project manager or supervisor that the work conducted was performed in accordance with the Approved Proposal, a copy of all data generated, and all other information obtained, during the Remedial Investigation and shall provide all assessments and evaluations as set forth in the most current United States Environmental Protection Agency ("EPA") guidance documents for projects pursuant to the Comprehensive Environmental Response, Compensation, and Liability Act of 1980, as amended by the Superfund Amendments and Reauthorization Act of 1986, 42 U.S.C. §9601 et seq. ("CERCLA") and shall be consistent with the national contingency plan as developed pursuant to that statute.

V. The Department reserves the right to require a modification and/or amplification and expansion of the Remedial Investigation and Report by Respondent to address specific areas if the Department determines that further investigation is necessary, as a result of reviewing data generated by the Remedial Investigation or as a result of reviewing other data or facts, provided that such modification, amplification or expansion is consistent with

the requirements of the Report as specified in Paragraph IV above.

VI. Within the time provided therefor in the Approved Work Plan, but not more than six months after receipt of the Department's approval of the Report, Respondent shall submit to the Department a feasibility study (the "Feasibility Study") evaluating on-Site and off-Site remedial actions to eliminate or mitigate the health and environmental hazards and potential hazards attributable to the Site. The Feasibility Study shall be prepared and certified by a licensed professional engineer registered in the State of New York. The Feasibility Study shall be in accordance with the most current EPA guidance documents for projects pursuant to CERCLA and shall be consistent with the national contingency plan as developed pursuant to that statute.

VII. After submission of the proposed Feasibility Study, the Respondent shall publish a notice prepared by the Department, advising of the availability of this Order and its Appendices and all proposals and reports concerning the Site and shall announce a location where documents are provided for public review and comment. The Department and Respondent will accept written comments from the public for a period of 30 days following the notice. The Respondent shall provide for oral comments at a public hearing during the comment period and shall submit a transcript of these proceedings to the Department.

At the conclusion of the comment period, the Department

will review such documents and comments which it has received. The Department shall then determine whether or not Respondent's proposed Feasibility Study adequately addresses those comments and concerns raised during the comment period and shall provide a written record of such review to Respondent and the public.

If the Department determines that the proposed Feasibility Study adequately addresses remediation of the Site as consistent with CERCLA and in view of the public comments received, then Respondent shall develop and submit a proposal for the construction of the Remedial Design for approval by the Department.

If the Department determines that the Feasibility Study requires modification, expansion or adjustment, the Department shall identify the elements of adjustment determined to be necessary and shall so inform the public and Respondent.

Respondent shall modify the Feasibility Study in accordance with the comments received and shall submit the modified Feasibility Study to the Department for review and approval. The Department shall provide written notice to Respondent of its approval or disapproval of the modified Feasibility Study and its reasons for such determination.

If the Department approves the modified Feasibility Study, Respondent shall submit the Remedial Design. If the Department disapproves the modified Feasibility Study, the Department shall take whatever action the Department deems

appropriate.

VIII. Within 180 days after receipt of the Department's approval of the Feasibility Study, Respondent shall submit to the Department an engineering report, plans and specifications for a remedial program (the "Remedial Design").

The Remedial Design shall include, but not be limited to, the following:

a. A description of the means of effectuating the combination of technologies which has been selected from the alternatives by the approved Feasibility Study, and which collectively constitutes the Remedial Program ("Remedial Program") to include but not be limited to, as necessary or appropriate as determined by the Department:

(1) the disposition of hazardous wastes, constituents and degradation products, and any soil or other materials contaminated thereby;

(2) the collection, treatment, and disposition of any contaminated groundwater, leachate and air;

(3) physical security and posting of the Site;

(4) health and safety of persons living and/or working at or in the vicinity of the areas being remediated;

(5) quality control and quality assurance procedures and protocols to be applied to Remedial Program construction operations;

(6) integrated air monitoring on and off-Site during implementation of the Remedial Program.

b. "Contract-ready" documents for the construction of the elements of the Remedial Program, including plans and specifications prepared and certified by a licensed professional engineer registered in the State of New York, which plans shall satisfy all applicable state and federal laws, rules and regulations;

c. A time schedule for construction of the elements of the Remedial Program and provisions for periodic work-in-progress reports during the implementation of the Remedial Program;

d. The parameters, conditions, procedures and protocols to determine the effectiveness of the Remedial Program, including a schedule for periodic sampling of existing and planned groundwater monitoring wells;

e. A description of the maintenance and monitoring activities, procedures and protocols to be undertaken during the period commencing upon completion of the construction of the elements of the Remedial Program, including a provision for submission to the Department of periodic monitoring reports ("post-closure monitoring");

f. A contingency plan to be implemented in the event that any element of the Remedial Program fails to operate in accordance with the Remedial Design prior to the date 30 years after satisfactory completion of construction pursuant thereto ("Supplemental Remedial Program"); and

g. An evaluation of the need to take measures to provide for the health and safety of human beings working or

residing at and in the vicinity of the Site during a 30-year period following completion of the implementation of the Remedial Program, and a plan for the implementation of such measures.

IX. Within such period as may be allowed by the approved Remedial Design and any modifications thereto which have been approved by the Department or any Supplemental Remedial Program which may be required, Respondent shall complete construction pursuant to the approved Remedial Design and any modifications to the Remedial Design which have been approved by the Department. Within 45 days of completion of construction, Respondent shall submit to the Department record drawings and a certification that construction was completed in accordance with the approved Remedial Design and any approved modifications. Such certification shall be by a licensed professional engineer registered in the State of New York.

X. Within 45 days after receipt of the record drawings and certification, the Department shall review the same and provide comments to Respondent. In the event that the Department is not satisfied with the quality and completeness of construction, the Department may take any action and pursue any remedy to which it may be entitled by law.

If the Department acknowledges that the implementation is complete and in accordance with the Approved Remedial Design, then unless a Supplemental Remedial Program is required hereof, and except for the requirements of

paragraphs XII, XIII and the conditions set forth in paragraph XIV hereof, such acknowledgement shall constitute a full and complete satisfaction and release of each and every claim, demand, remedy or action whatsoever against Respondent, its directors, officers, employees, agents, successors and assigns, which the Department has or may have pursuant to Article 27, Title 13, of the ECL relative to or arising from the disposal of hazardous waste at the Site which caused the Site to be listed in the Registry.

This release shall inure only to the benefit of Respondent, its directors, officers, employees, agents, successors and assigns, with respect to the aforesaid matter.

Nothing herein shall be construed as barring, diminishing, adjudicating or in any way affecting any legal or equitable rights or claims, interests, defenses, actions, suits, causes of action or demands whatsoever that the Department or Respondent may have against anyone other than the parties to this Order.

XI. The right of the Department to enforce the terms of this Order shall not be affected by any release contained herein.

XII. Notwithstanding any provision contained in this Order to the contrary, for a period of 30 years from the date of the Department's written acknowledgement that Respondent has completed the implementation of the construction and other elements in accordance with the approved Remedial Design, or for such other period of time as may be designated

commensurate with Respondent's obligations pursuant to this Order, Respondent shall maintain and monitor the areas at which the elements of the Remedial Program were implemented in accordance with the approved Remedial Design ("Post-Closure Period"). During such Post-Closure Period, respondent shall provide the Department with the periodic monitoring reports, as set forth in the approved Remedial Design and shall provide immediate notice to the Department of any failure of the Remedial Program. In the event of any failure of the Remedial Program or any element thereof during the implementation of the Remedial Program or during the Post Closure Period, Respondent shall develop and submit a Supplemental Remedial Program.

XIII. Nothing contained in this Order shall be construed as barring, diminishing, adjudicating or in any way affecting:

a. any legal or equitable rights or claims, actions, suits, causes of action or demands whatsoever that the Department may have against anyone other other than Respondent, its directors, officers, employees, servants, agents, successors and assigns;

b. the Department's right to enforce at law or in equity the terms and conditions of this Order against Respondent, its directors, officers, employees, servants, agents, successors and assigns in the event that Respondent shall fail to satisfy any of the terms hereof;

c. the Department's right to bring any action at law or

in equity against Respondent, its directors, officers, employees, servants, agents, successors and assigns with respect to areas or resources that may have been affected or contaminated as a result of the disposal of hazardous wastes, including, but not limited to, the release or migration of hazardous or industrial wastes from the Site or from activities related to the Site.

XIV. Notwithstanding any other provision in this Order, the Department reserves the right to institute proceedings in this matter or in any other matter which are (1) seeking to compel the Respondent and/or third parties to perform additional response work at the Site or (2) seeking reimbursement of the Department's response costs if:

a. for proceedings initiated prior to the acknowledgement by the Department that the implementation is complete and in accordance with the Approved Remedial Design, such proceedings shall be founded upon (i) conditions at the Site which were previously unknown to the Department or (ii) information received by the Department after the execution of this Order, and such conditions or information indicates that the Remedial Design will not be sufficiently protective of human health or the environment; or

b. for proceedings initiated subsequent to the acknowledgement by the Department that the implementation is complete and in accordance with the Approved Remedial Design, such proceedings shall be founded upon (i) conditions at the Site which were previously unknown to the Department or, (ii)

information which is received, in whole or in part after such acknowledgement by the Department, and such conditions or information indicates that the Remedial Design is not protective of human health or the environment.

XV. Respondent shall provide notice to the Department of any field work (including, but not limited to, any excavating, drilling or sampling) to be conducted pursuant to the terms of this Order at least five (5) working days in advance of such activities.

XVI. Respondent shall permit any duly designated officer, employee, consultant, contractor or agent of the Department to enter upon the Site or areas in the vicinity of the Site which may be under the control of Respondent, and any areas necessary to gain access thereto, for inspection purposes and for the purpose of making or causing to be made such sampling and tests as the Department deems necessary, and for ascertaining Respondent's compliance with the provisions of this Order.

XVII. The Department shall have the right to obtain "split samples" or "duplicate samples" or both, at the Department's option, of all substances and materials sampled by Respondent pursuant to this Order.

XVIII. Respondent shall obtain whatever permits, easements, rights-of-way, rights-of-entry, approvals or authorizations which are necessary in order to perform Respondent's other obligations pursuant to this Order. However, for any permit administered and issued by the

Department, the Department's approval of plans and specifications as a part of the remedial programs encompassed by this Order shall constitute authorization in lieu of a permit, provided that the affected program, regulations or specific applicable permit are identified and that such plans and specifications are included in the appendices to this Order and incorporated as a part of this Order.

XIX. Within 30 days after the effective date of this Order, Respondent shall have filed a Declaration of Covenants and Restrictions with the Monroe County Clerk's Office for the purpose of providing notice of this Order to all potential future purchasers of any portion or all of the Site. This Declaration must indicate that any successor in title to any portion or all of the Site shall be responsible for implementing the provisions of this Order. A certified copy of this filing shall be provided to the Department.

XX. As used in this Order, "hazardous waste" shall mean a waste which appears on the list, or satisfies the characteristics promulgated by the Commissioner pursuant to Section 27-0903 of the ECL and found at 6 NYCRR Part 371, and any hazardous constituents or hazardous degredation products of a waste or combination of wastes which, because of its quantity, concentration, or physical, chemical or infectious characteristics may pose a substantial present or potential hazard to human health or the environment.

XXI. Respondent shall not suffer any penalty under any of the terms hereof, or be subject to any proceedings or

actions for any remedy or relief, if it cannot comply with any requirements of the terms hereof because of an act of God, war, riot or other condition as to which negligence or willful misconduct on the part of Respondent was not the proximate cause, provided, however, that Respondent shall immediately notify the Department in writing when it obtains knowledge of any such condition and request an appropriate extension or modification of the terms of this Order.

XXII. The failure of Respondent to comply with any terms of this Order shall constitute a default and a failure to perform an obligation under this Order and under the ECL. In the event of default by the Respondent, the Department may initiate any action and pursue any remedy which may be available to it.

XXIII. The terms of this Order shall not be construed to prohibit the Commissioner or his duly authorized representative from exercising any summary abatement powers, either at common law or as granted pursuant to statute or regulation.

XXIV. Respondent shall indemnify and hold the Department, the State of New York, and their representatives and employees harmless for all claims, suits, actions, damages and costs of every name and description arising out of or resulting from the fulfillment or attempted fulfillment of the terms of this Order by Respondent, its directors, officers, employees, servants, agents, successors or assigns.

XXV. Respondent, having conducted a record search to

identify sources of materials utilized at the Site and to identify other parties who have used the Site and having reported thereon to the Department, shall have a continuing obligation to submit to the Department any data or information of which Respondent becomes aware and which may be applicable to identifying other parties who may be held liable for costs of the remedial program.

Respondent shall notify each other party so identified by Respondent or the Department of that party's potential liability and shall provide the Department with a copy of such notification, and copies of any other correspondence related thereto or resulting therefrom.

Respondent shall provide the Department with any information concerning, and provide an accounting of, any contributions, liability, reimbursements or indemnifications by or from any other parties related to expenditures undertaken by Respondent pursuant to this Order. The Department shall not be bound by any cost allocation or contribution agreements among any parties unless the Department has approved such allocations in writing.

XXVI. The effective date of this Order shall be the date this Order is signed by the Commissioner or his designee.

XXVII. If, for any reason, Respondent desires that any terms of this Order be changed, Respondent shall make timely written application therefor to the Commissioner setting forth reasonable grounds for the relief sought.

XXVIII. A. All communication required hereby to be made between the Department and Respondent shall be made in writing and transmitted by United States Postal Service return receipt requested, or hand delivered or delivered via a similar carrier service which records delivery, to each of the addresses listed below.

B. Submissions to be made by Respondent to the Department shall be submitted in two copies to each of the following addresses:

1. New York State Department of
Environmental Conservation
Division of Hazardous Waste Remediation
Region 8
6274 E. Avon-Lima Road
Avon, New York 14414

2. New York State Department of
Environmental Conservation
Division of Environmental Enforcement
600 Delaware Avenue
Buffalo, New York 14202-1073

3. New York State Department of
Environmental Conservation
Division of Hazardous Waste Remediation
Bureau of Eastern Remediation
50 Wolf Road
Albany, New York 12233

4. New York State Department of Health
Bureau of Environmental Exposure
Investigation
2nd Floor
2 University Place
Albany, New York 12237

C. Communication to be made from the Department to Respondent shall be made in duplicate as follows:

Edward J. Doherty
Commissioner of Environmental Services
Room 300 B
City Hall
30 Church Street
Rochester, New York 14614

Johanna F. Brennan, Esq.
4th Floor - Law Department
City Hall
30 Church Street
Rochester, New York 14614

D. The Department and Respondent respectively reserve the right to designate other or different addresses on notice to the other.

XXIX. The terms of this Order shall be deemed to bind Respondent, its officers, directors, agents, servants, employees, successors and assigns.

XXX. Nothing herein shall be construed to bind any entity not specifically bound by the terms of this Order.

XXXI. The terms hereof shall constitute the complete and entire Order between Respondent and the Department concerning the Site. No terms, conditions, understandings or agreements purporting to modify or vary the terms hereof shall be binding unless made in writing and subscribed by the party to be bound. No informal advice, guidance, suggestions or comments by the Department regarding reports, proposals, plans, specifications, schedules or any other writing

submitted by Respondent shall be construed as relieving Respondent of its obligations to obtain such formal approvals as may be required by this Order.

DATED: June 21, 1989
Albany, New York

THOMAS C. JORLING
Commissioner
New York State Department of
Environmental Conservation

CONSENT BY RESPONDENT

Respondent hereby consents to the issuing and entering of the foregoing Order, waives its right to a hearing herein as provided by law, and agrees to be bound by the provisions, terms and conditions contained herein.

THE CITY OF ROCHESTER

BY: Louis Kash

TITLE: Corporation Counsel

DATE: 5/5/89

State of New York)
County of) s.s.:
)

On this 5th day of May, 1989, before me personally came Louis Kash to me known, who, being by me duly sworn, did depose and say that he resides in Rochester; that he is the Corp Counsel of the City of Rochester, the municipality described in and which executed the foregoing instrument; that he knew the seal of said municipality; that the seal affixed to said instrument was such seal; that it was so affixed by the appropriate order in accordance with the Charter of the municipality, and that he signed his name thereto by like order.

Brenda A. Teachout (Patrzalek)
NOTARY PUBLIC

BRENDA A. TEACHOUT (Patrzalek)
Notary Public in the State of New York
MONROE COUNTY
Commission Expires July 31, 19 89