February 26, 2013

Mr. Allan Timm and Ed Olson
MPCA VIC Program
520 Lafayette Road
St. Paul, MN 55155-4194

Re: Quarterly Groundwater Monitoring and Dual Phase Extraction System Effectiveness Report
MN Bio Business Center, Rochester, MN

Dear Mr. Timm and Mr. Olson:

On behalf of the City of Rochester (City) Administration Department, Landmark Environmental, LLC (Landmark) has prepared this letter to present a status update for the dual phase extraction (DPE) system installed at the above referenced property (Property), as shown in **Figure 1**.

Introduction

The DPE system was originally started up on June 29, 2009, and operated continuously on source area well, DPE-1, through October 15, 2009. On October 15, 2009, the DPE system operational configuration was switched from continuous operation on DPE-1 to operating sequentially on all DPE wells. During this time, the DPE system was programmed to operate on each well for 45 minutes before switching to the next well, a process taking 6 hours to complete one full cycle. On September 8, 2011, the DPE system operational configuration was switched to focus on DPE-1, DPE-2, DPE-3, and DPE-4, based on DPE well perchloroethene (PCE) analytical results and photo-ionization detector readings from the August 28, 2011, monitoring event. During one full 6-hour cycle, DPE-1, DPE-2, DPE-3, and DPE-4 each operate for 85 minutes before switching to the next well, while DPE-5, DPE-6, DPE-7, and DPE-8 each operate for 5 minutes before switching to the next well. DPE-5, DPE-6, DPE-7, and DPE-8 were kept in the 6 hour cycle to help prevent the solenoid valves from deteriorating if left off for a long period of time. On June 18, 2012, the DPE system operational configuration was switched to focus on DPE-3 based on DPE well PCE analytical results and photo-ionization detector readings from previous monitoring events. During one full 6- hour cycle DPE-3 operates for 5.4 hours and DPE-1, DPE-2, DPE-4, DPE-5, DPE-6, DPE-7 and DPE-8 for 5 minutes before switching to the next well.

This report documents the monthly DPE system operational and analytical data from October 26, 2012, through December 21, 2012, as well as quarterly groundwater monitoring data from samples collected on December 21, 2012. During this reporting period, the DPE system operational configuration focused on DPE-3. After the October 26, 2012, monitoring event, the DPE system was shut down through December 21, 2012, to allow the subsurface groundwater and soil gas concentrations to stabilize for evaluating rebound groundwater and DPE emissions concentrations, and for conducting a soil vapor investigation. Groundwater and soil vapor samples were collected on December 19, 2012, prior to restarting the DPE system. The rebound DPE emissions sample was collected on December 21, 2012, after permanently restarting the system.

The air sample collection method during sequential operation of the DPE system wells consists of a composite Summa canister utilizing a 6-hour flow control valve. The DPE system well locations and

equipment layout are provided in **Figures 2 and 3**, respectively. A system operation and maintenance summary table is included as **Table 1**.

System Operational Results

The DPE system emissions analytical results from October 26, 2012, for volatile organic compounds (VOCs) and tetrachloroethene (PCE) were 1,099,548 micrograms per cubic meter (ug/m^3) and 664,000 ug/m^3, respectively. Landmark believes these results are suspect data and outliers from concentration trends. Landmark contacted Pace Analytical (Pace) to discuss the accuracy of the data and to see if they could recheck the results. Pace reviewed the reported results and found that they calculated correctly and method compliant. In addition, Pace did not find any indication of sample cross contamination, or carryover. Despite Pace's findings, Landmark still believes the DPE emissions results from October 26, 2012, are suspect for reasons discussed below.

The operational configuration of the DPE system was switched in June 2012 to operate primarily at DPE-3. As a result of switching operation to DPE-3, the concentrations of VOCs (173,300 ug/m^3) and PCE (113,000 ug/m^3) increased significantly (**Figure 4A and 4B**). After the emissions concentrations at DPE-3 decreased, Landmark decided to shut down the DPE system, immediately after collecting the October 26, 2012, emissions sample, for 2 months to evaluate rebound emissions and groundwater concentrations at the site. Based on the emissions data observed from the DPE system to date, reasonable emissions concentrations on October 26, 2012, would have been below 100,000 ug/m^3 for VOCs and below 50,000 ug/m^3. As shown on **Figures 4A** and **4B**, the October 26, 2012, VOC and PCE concentrations were 1,099,548 ug/m^3 and 664,000 ug/m^3, respectively. DPE system concentrations this high have not been observed since July 26, 2010, just over two years ago. It does not make sense for the concentrations to spike before shutting the system down for a rebound evaluation. After the DPE system was shut down for approximately 2 months, it was restarted on Dec. 21 and an emissions sample was collected to evaluate any potential rebound. An expected rebound in VOC (447,600 ug/m^3) and PCE (358,000 ug/m^3) concentrations was observed on December 21, 2012. The fact that the emissions concentrations on October 26, 2012, before the system shutdown period, were over two times higher than the concentrations observed on December 21, 2012, after the shutdown period indicates the October 26, 2012, data is suspect.

Another line of evidence which suggests the October 26, 2012, data is suspect is a comparison of the photoionization detector (PID) readings collected during the monthly sampling events. As shown on **Table 5 of Appendix A** the PID readings on October 26, 2012, (12.2 parts per million [ppm]) are consistent with the previous PIDs collected on July 19 (15.6 ppm), August 23 (11.4 ppm), and September 26, 2012 (11.6 ppm). The July through September 2012 PID readings also correlated with the emissions analytical results. The PID, which is field-calibrated each month, yielded higher PIDs at each DPE well on December 21, 2012, correlating with the higher emissions concentrations that resulted from shutting the DPE system down for approximately 2 months. Below are the PID readings from the past three monitoring and sampling events:

	Sept. 26	Oct. 26	Dec. 21
DPE-1	6.9	6.2	66
DPE-2	4.3	4.6	56
DPE-3	11.6	12.2	97
DPE-4	5	0.8	51
DPE-5	1.4	0	14.7
DPE-6	1.8	0	13.7
DPE-7	0.2	0	8.7
DPE-8	0	0	7.2

As shown in the comparison of PIDs at DPE-3 and at all individual wells during previous sampling events, the PID evaluation suggests the October 26, 2012, analytical results are suspect.

Fluctuations in groundwater elevations as shown in **Figures 6** and **7** and **Table 7** can directly impact the DPE system emissions rates when the lower elevations expose pockets of contamination to the subsurface air flow created by the DPE wells. The groundwater elevations did not fluctuate significantly enough from August 23 through October 26, 2012, to expose a pocket of contamination while operating on DPE-3 that would create the spike in VOCs observed on October 26, 2012. Therefore, the groundwater elevations observed also indicate the October 26, 2012, analytical results are suspect.

Although Landmark believes the October 26, 2012, DPE emissions results are suspect and are outliers from concentrations trends previously observed, the data has been included in all of the tables and figures included in this report because Pace claims the results are valid. Footnotes have been added to pertinent tables and figures to highlight the suspect data.

When comparing the December 21, 2012, concentrations to the baseline emissions data from April 9, 2009, the total VOC concentration has decreased from 14,613,880 ug/m^3 to 447,600 ug/m^3, a decrease of 96.9 percent (See **Figures 4A** and **4B**, and **Tables 2 and 3**). PCE concentrations decreased from 11,600,000 ug/m^3 to 358,000 ug/m^3, a decrease of 96.9 percent from the baseline concentration (See **Figures 4A** and **4B**, and **Tables 2 and 3**). The PCE concentrations from the December 21, 2012, sampling events increased from the September 26, 2012, as a result of the DPE system shutdown period from October 26 to December 21, 2012.

During this reporting period, September 26, through December 21, 2012 (see **Figure 5** and **Table 2**), the DPE system removed approximately 119.66 pounds of total VOCs, including approximately 72.97 pounds of PCE. Through December 21, 2012, the DPE system has removed a total of 3,633.05 pounds of total VOCs and 2,743.80 pounds of PCE. Emissions analytical data is provided in **Table 3** and system operational data tables and field data sheets are provided in **Attachment A**. The emissions analytical reports are included in **Attachment B**.

The Minnesota Pollution Control Agency's (MPCA's) Petroleum Remediation (PR) Program spreadsheet was used to evaluate the emissions rates from the DPE system and air stripper stacks on the Property during the DPE system sampling event. The site specific emissions rates for PCE from October 26, through December 21, 2012, did not exceed the MPCA's Excess Lifetime Cancer Risk (ELCR) guideline value of 1.0E-05. The suspect emissions data from October 26, 2012, yielded an ELCR of 1.0E-05. The PR emissions rates are provided in **Table 4** and the PR spreadsheets are provided in **Attachment C**.

The cumulative total VOC mass removed from the DPE system groundwater discharge during air stripper operation through December 21, 2012 was 0.62 pounds. The effluent groundwater discharge concentrations were below the City's Water Reclamation Plant discharge criteria of 2,130 ug/L. Mass removal data from the groundwater treatment system is provided in **Table 5** and the groundwater discharge analytical data is included in **Table 6**. The groundwater discharge analytical reports are provided in **Attachment B**.

The groundwater hydrographs for the DPE and monitoring wells showed an increase in groundwater elevations resulting from the DPE system shutdown on October 26, 2012. Groundwater elevations were collected on December 19, 2012, prior to the groundwater sampling event, and again on December 21, 2012, after restarting the DPE system (see **Figures 6, 7, 8A, and 8B**). As expected, the groundwater elevations decreased from December 19 to 21, 2012, as a result of restarting the DPE system. The groundwater elevation data is provided in **Table 7**. Well construction information is provided in **Table 8**.

Groundwater Monitoring Results

Landmark temporarily shut down the DPE system from October 26 through December 21, 2012, approximately 2 months, to evaluate rebound emissions and groundwater concentrations at the site. On December 19, 2012, Landmark collected the quarterly groundwater samples at the site prior to restarting the DPE system on December 21, 2012. During the temporary shutdown period groundwater concentrations of PCE rebounded from the previous groundwater sampling event on September 26, 2012, at the following wells: MW-16 (from 21.8 to 128 micrograms per liter [ug/L]), MW-20 (from 17.4 to 40.8 ug/L), DPE-1 (from 82.2 to 505 ug/L), DPE-2 (from 39 to 746 ug/L), DPE-3 (from 75 to 5,670 ug/L), DPE-4 (from 187 to 1,410 ug/L), and DPE-5 (from 16 to 74 ug/L). The groundwater concentration of PCE decreased during this period at MW-17 (from 38.1 to 22 ug/L). DPE-8 was dry and could not be sampled. The PCE concentrations in groundwater are shown in **Figures 9A** and **9B**, and **Table 9**.

After approximately three years of DPE system operation, the PCE concentrations have decreased at all of the monitoring and DPE wells (see **Figures 9A** and **9B**, and **Table 9**). The associated percent decrease of PCE concentration at each well, when compared to baseline groundwater concentrations, is listed as follows: MW-14 (95.8%), MW-15 (100.0%), MW-16 (99.1%), MW-17 (93.9%), MW-18 (100.0%), MW-19 (41.7%), MW-20 (93.2%), DPE-1 (99.7%), DPE-2 (98.0%), DPE-3 (96.3%), DPE-4 (96.0%), DPE-5 (94.5%), DPE-6 (99.0%) and DPE-7 (83.4%). **Figure 10** shows the iso-concentration contour map for PCE during the December 21, 2012, sampling event. The groundwater analytical results are included in **Table 10** and the groundwater analytical reports are included in **Attachment B**. Groundwater monitoring field data sheets are included in **Attachment A**.

Per the MPCA's approval, analysis of the following natural attenuation parameters has been discontinued: dissolved calcium, dissolved organic carbon, dissolved iron, dissolved magnesium, methane, nitrate as N, sulfate, and sulfide. The natural attenuation data collected prior to the MPCA's approval is provided in **Table 11**. The following field parameter data is still collected at each well on a quarterly basis: temperature, conductivity, pH, oxidation reduction potential, and dissolved oxygen (See **Table 12**).

Conclusions

After analyzing the data from the monthly DPE system and quarterly groundwater monitoring and sampling events, the following conclusions can be made:

- Landmark believes the October 26, 2012, DPE emissions results from Pace are suspect and are outliers from concentrations trends previously observed, and compared to the actual rebound concentrations from December 21, 2012, which were significantly lower.

- Discounting the suspect results from the October 26, 2012, a rebound in emissions concentrations of VOCs and PCE was observed from September 26 to December 21, 2012, to as a result of the temporary DPE system shutdown period. The rebound in VOC and PCE concentrations during this period was 100,659 ug/m^3 to 447,600 ug,m^3 for VOCs and 45,800 ug/m^3 to 358,000 ug/m^3 for PCE.

- As a result of the temporary DPE system shutdown period, groundwater concentrations rebounded from the previous groundwater concentrations of PCE on September 26, 2012, at the following wells: MW-16 (from 21.8 to 128 micrograms per liter [ug/L]), MW-20 (from 17.4 to 40.8 ug/L), DPE-1 (from 82.2 to 505 ug/L), DPE-2 (from 39 to 746 ug/L), DPE-3 (from 75 to 5,670 ug/L), DPE-4 (from 187 to 1,410 ug/L), and DPE-5 (from 16 to 74 ug/L).

- DPE-3 showed the most significant rebound in groundwater VOC concentrations and PID readings from the December 2012 monitoring and sampling event.

- The groundwater concentrations of PCE decreased during this period at MW-17 (from 38.1 to 22 ug/L).

- The DPE system is operating as designed and has removed a significant amount of VOCs since system startup in June 2009.

- Through December 21, 2012, the DPE system removed 3,633.05 pounds of total VOCs, including 2,743.80 pounds of PCE from the subsurface.

- When comparing the December 21, 2012, concentrations to the baseline emissions data from April 9, 2009, the total VOC and PCE concentrations have decreased 96.9 percent and 96.9 percent, respectively.

- The DPE system removed 133.91 pounds of total VOCs, including 79.46 pounds from PCE, from September 26, through December 21, 2012.

- During this reporting period, the site specific emissions rates for PCE were below the MPCA's PR Program acute and chronic emissions criteria.

- When compared to baseline groundwater concentrations, DPE system operation has effectively decreased the concentrations of PCE in the groundwater at the following wells: MW-14 (95.8%), MW-15 (100.0%), MW-16 (99.1%), MW-17 (93.9%), MW-18 (100.0%), MW-19 (41.7%), MW-20 (93.2%), DPE-1 (99.7%), DPE-2 (98.0%), DPE-3 (96.3%), DPE-4 (96.0%), DPE-5 (94.5%), DPE-6 (99.0%), and DPE-7 (83.4%).

Recommendations

Based on the rebound groundwater concentrations and PID readings observed at the wells in December 2012, Landmark switched the operational configuration of the DPE system to focus on DPE-1, DPE-2, DPE-3, and DPE-4. The change in the operational configuration was made on January 23, 2013. Although the rebound emissions and groundwater concentrations are significantly lower than baseline concentrations, Landmark recommends operating the DPE system on DPE-1, DPE-2, DPE-3, and DPE-4 until emissions and groundwater VOC concentrations reach levels observed prior to the October 26, 2012, sampling event. Once VOC emissions concentrations reach these low levels, Landmark will request approval from the MPCA to conduct a temporary DPE shutdown period to evaluate the rebound in emissions and groundwater concentrations.

If you have any questions or require additional information, please feel free to contact me at jskramstad@landmarkenv.com and (952) 887-9601, extension 205.

Sincerely,

Jason D. Skramstad, P.E.

Cc: Terry Spaeth, City of Rochester

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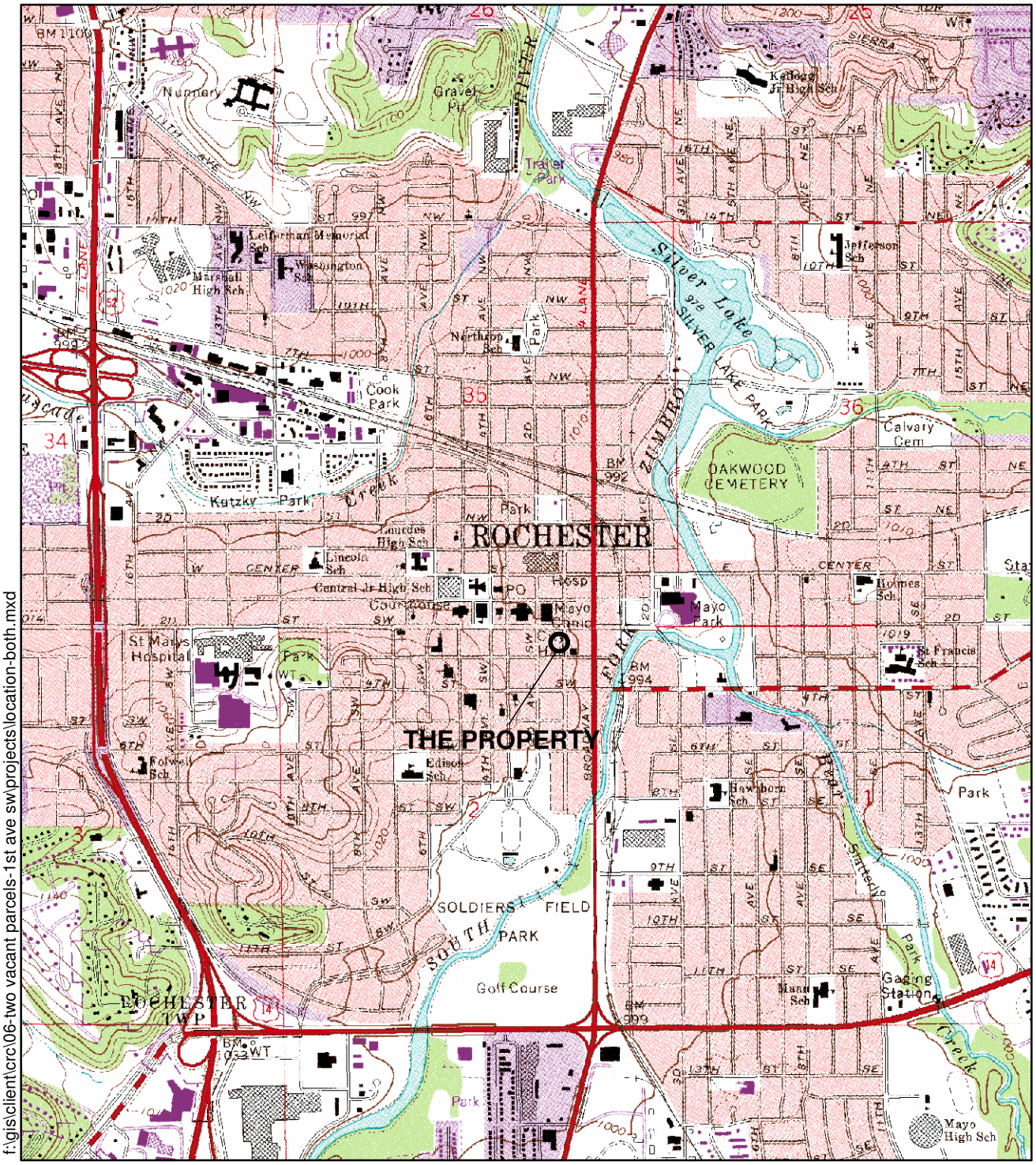
Figures



f:\gis\client\crc\06-two vacant parcels-1st ave sw\projects\location-both.mxd

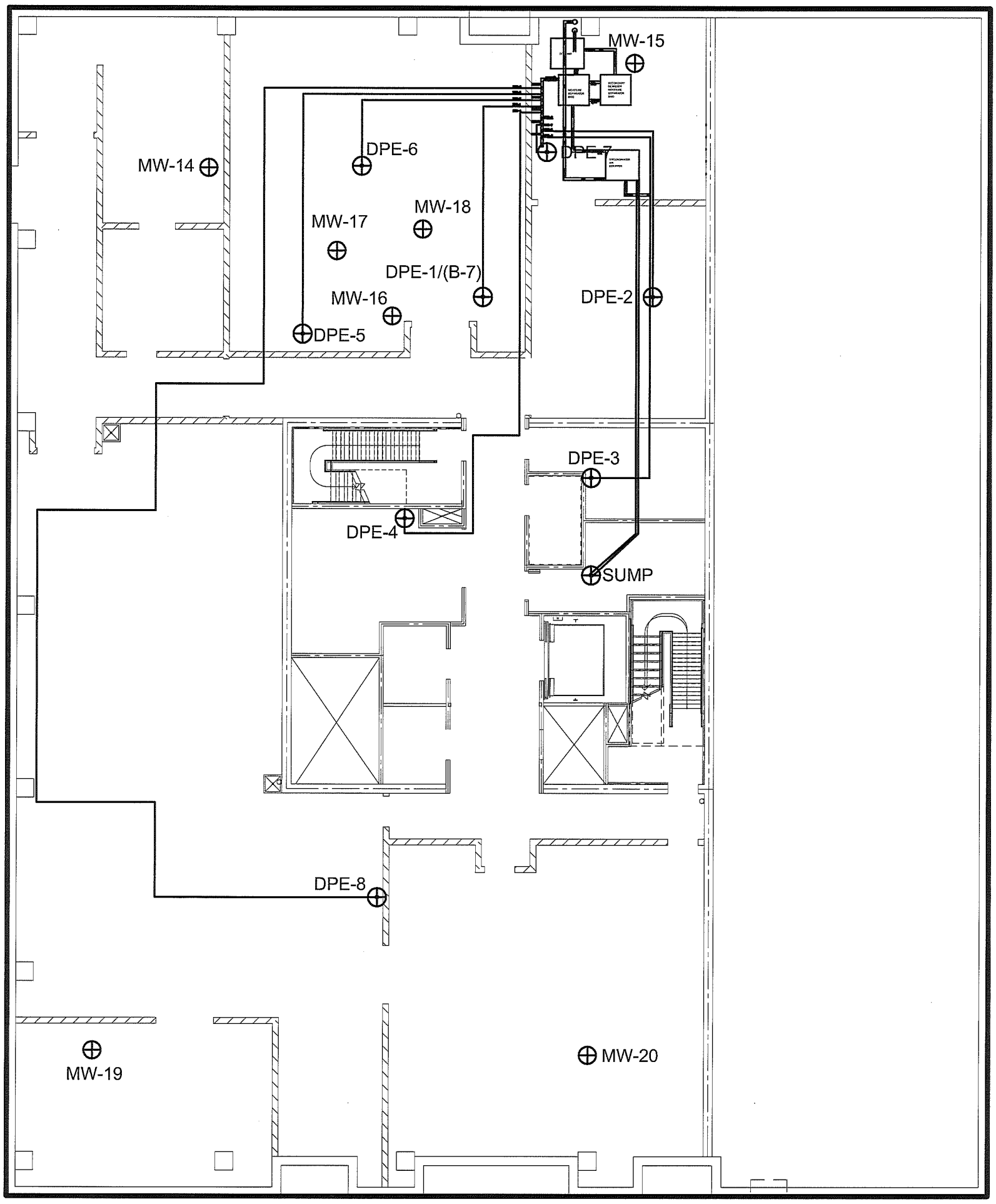
Source: Rochester, Minnesota Topographic Quadrangle, 7.5-Minute Series

N

2,000 1,000 0 2,000 Feet

FIGURE 1

PROPERTY LOCATION MAP
219 and 223 1ST Avenue Southwest
Rochester, Minnesota



BASEMENT FLOOR PLAN

LEGEND

⊕ DPE, Monitoring Well, or Sump Location

DPE Piping Location

Property Boundary

N

20 feet
SCALE

BASE DRAWINGS PROVIDED BY HGA
F:/Projects/CRC/CAD/basement planview\DPE AS Layout.dwg

Rev	Date	By	Description

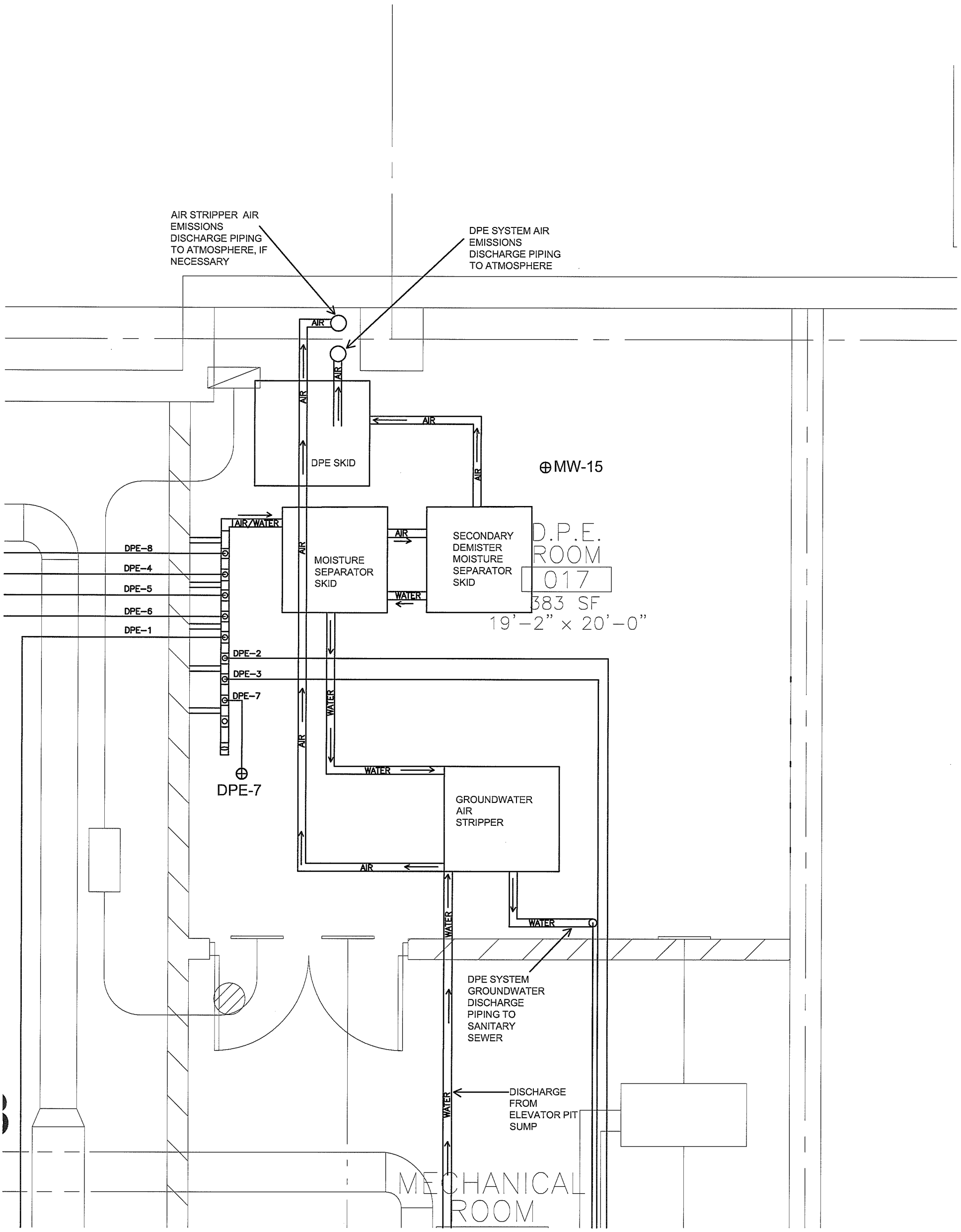
LANDMARK ENVIRONMENTAL, LLC
2042 West 98th Street
Bloomington, MN 55431

FIGURE 2

DPE SYSTEM LAYOUT

221 FIRST AVENUE S.W.
ROCHESTER, MINNESOTA

Landmark Project Number: CRC		
Drawn: JDS	Checked: JDS	Designed: JDS
Scale: .	Date: 7/9/2009	Revision:
Drawing Number: .	Sheet . Of .	Sheets .



LEGEND

Existing DPE Piping Location

AIR — Proposed Air Emissions Piping Location

WATER — Proposed Groundwater Discharge Piping Location

N

1 in = 3 ft
APPROXIMATE SCALE

BASEDRAWINGS PROVIDED BY HGA
F:/Projects/CRC/CAD/basement planview/20070829 DPE System/20100413 DPE Room.dwg

Rev	Date	By	Description

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2042 West 98th Street
Bloomington, MN 55431

FIGURE 3

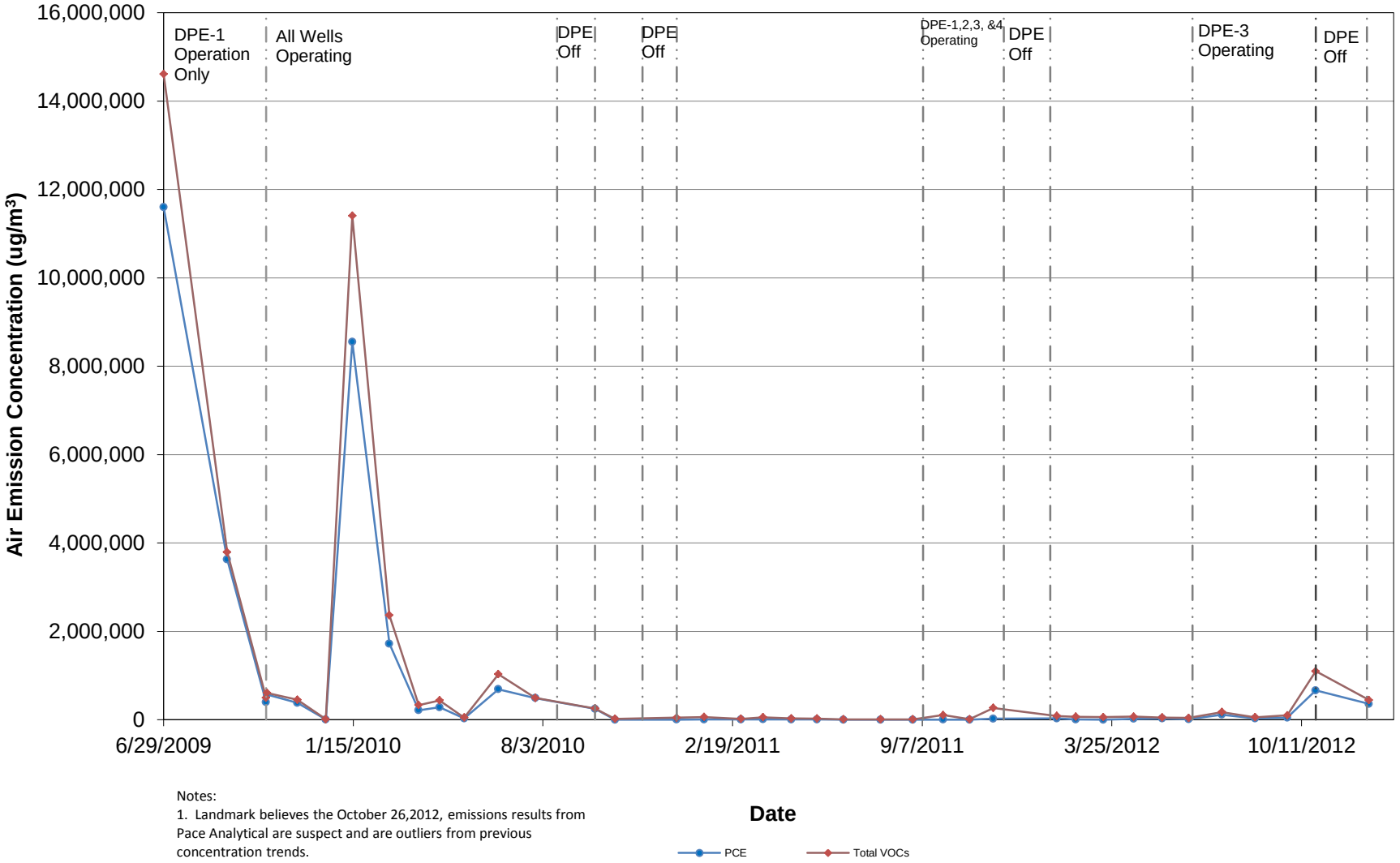
DPE ROOM LAYOUT

221 FIRST AVENUE S.W.
ROCHESTER, MINNESOTA

Landmark Project Number: CRC		
Drawn: JDS	Checked: JDS	Designed: JDS
Scale: 1:3	Date: 4/13/2010	Revision: .
Drawing Number: .	Sheet Of	Sheets

FIGURE 4A

DPE EMISSIONS CONCENTRATIONS-JUNE 2009 TO PRESENT
MN Bio Business Center
221 1st Avenue SW
Rochester, Minnesota



Notes:
1. Landmark believes the October 26,2012, emissions results from Pace Analytical are suspect and are outliers from previous concentration trends.

FIGURE 4B

DPE EMISSIONS CONCENTRATIONS - JULY 2010 TO PRESENT
MN Bio Business Center
221 1st Avenue SW
Rochester, Minnesota

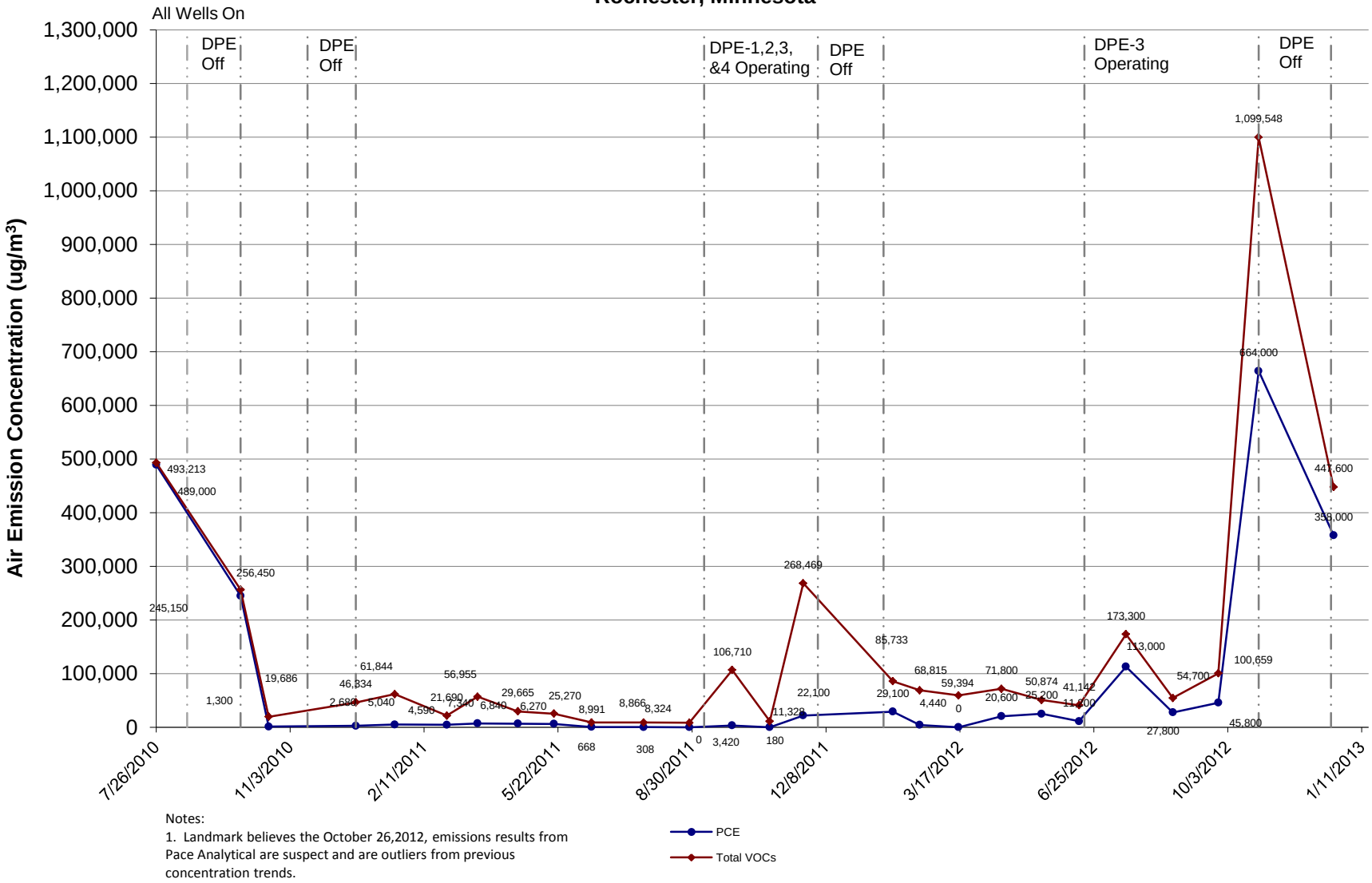
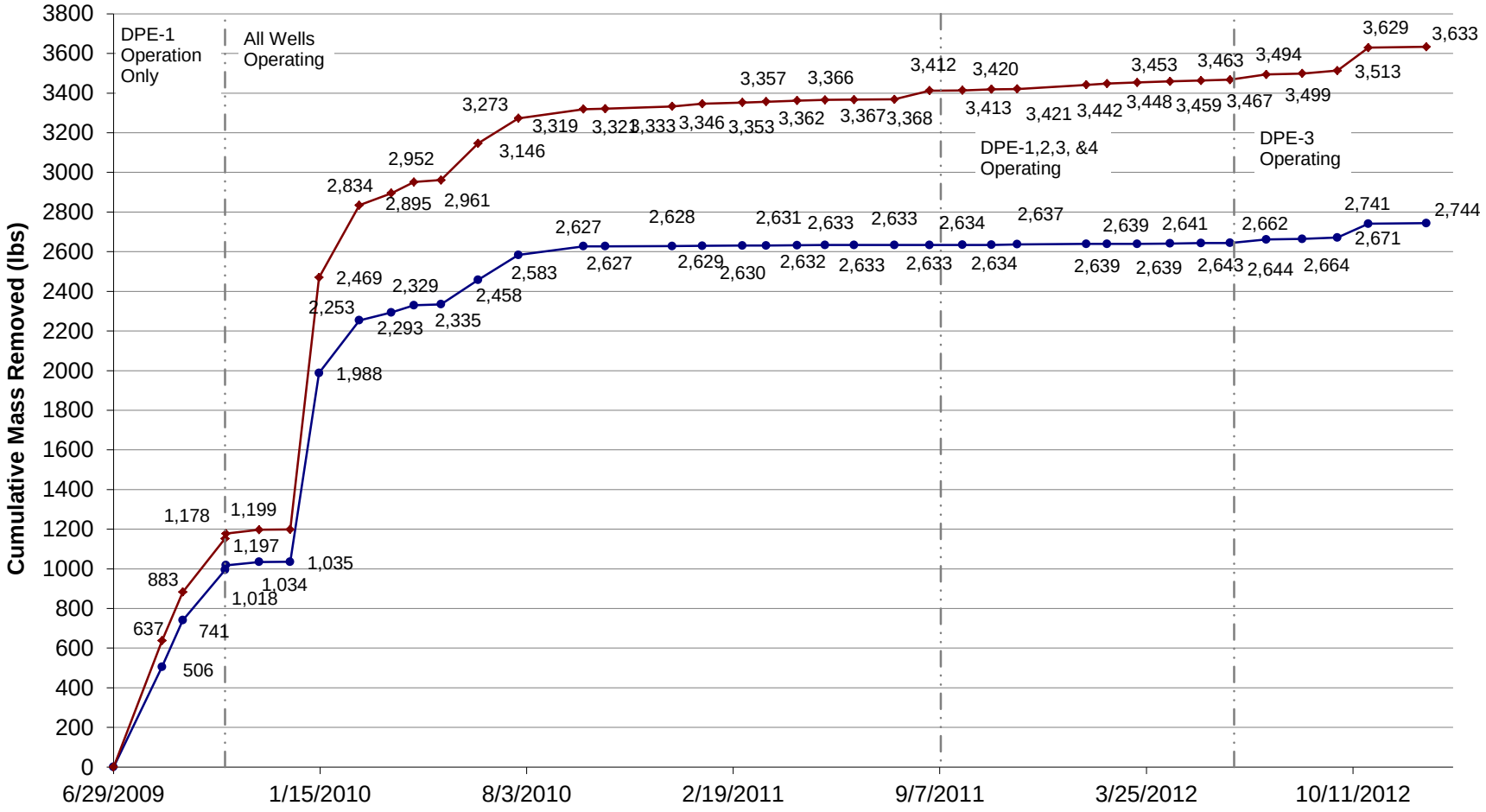


FIGURE 5

CUMULATIVE MASS REMOVED
MN Bio Business Center
221 1st Avenue SW
Rochester, Minnesota



Notes:
1. Landmark believes the October 26,2012, emissions results from Pace Analytical are suspect and are outliers from previous concentration trends.

FIGURE 6

DPE WELL HYDROGRAPHS
MN Bio Business Center
221 1st Avenue SW
Rochester, Minnesota

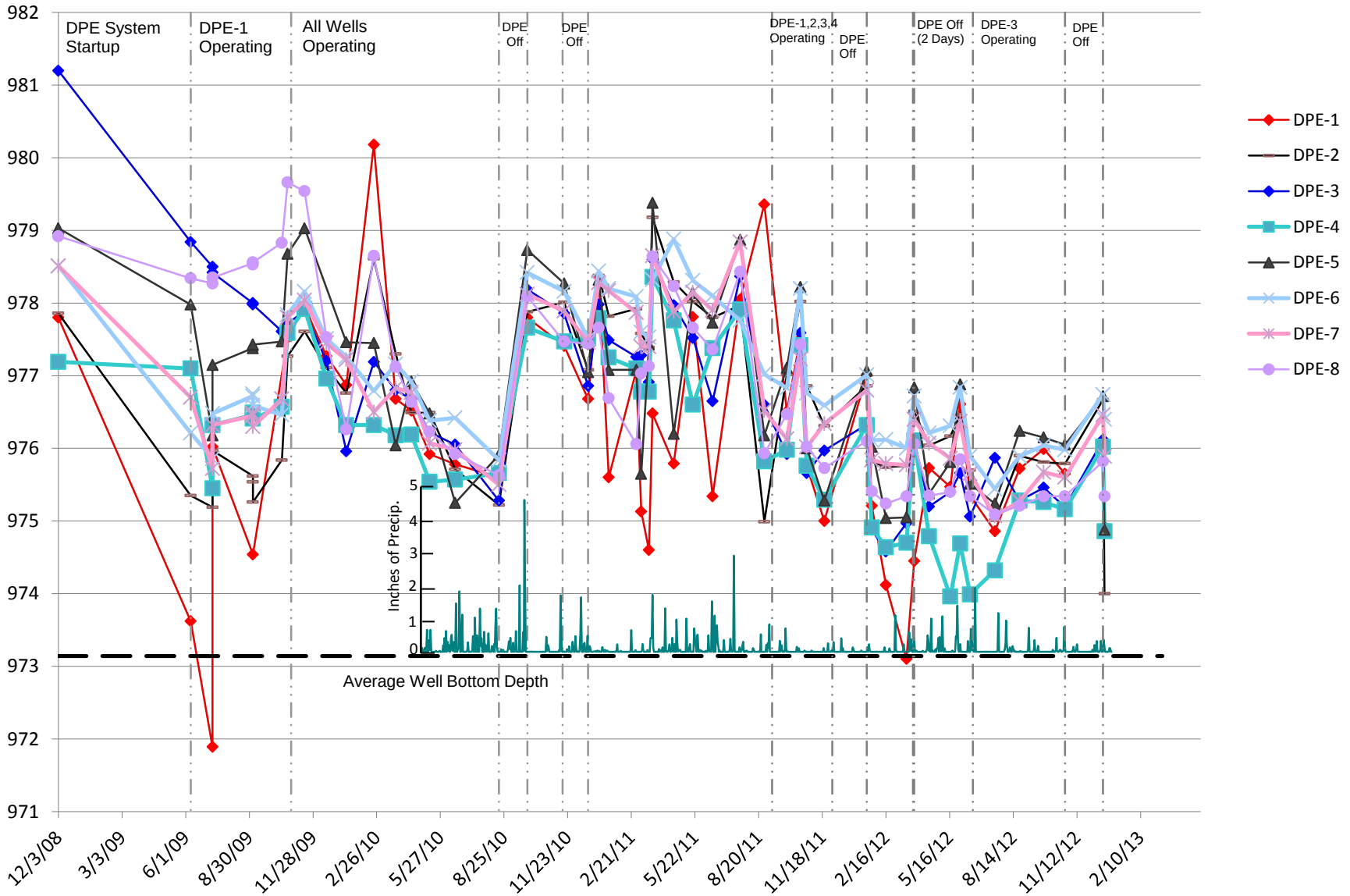
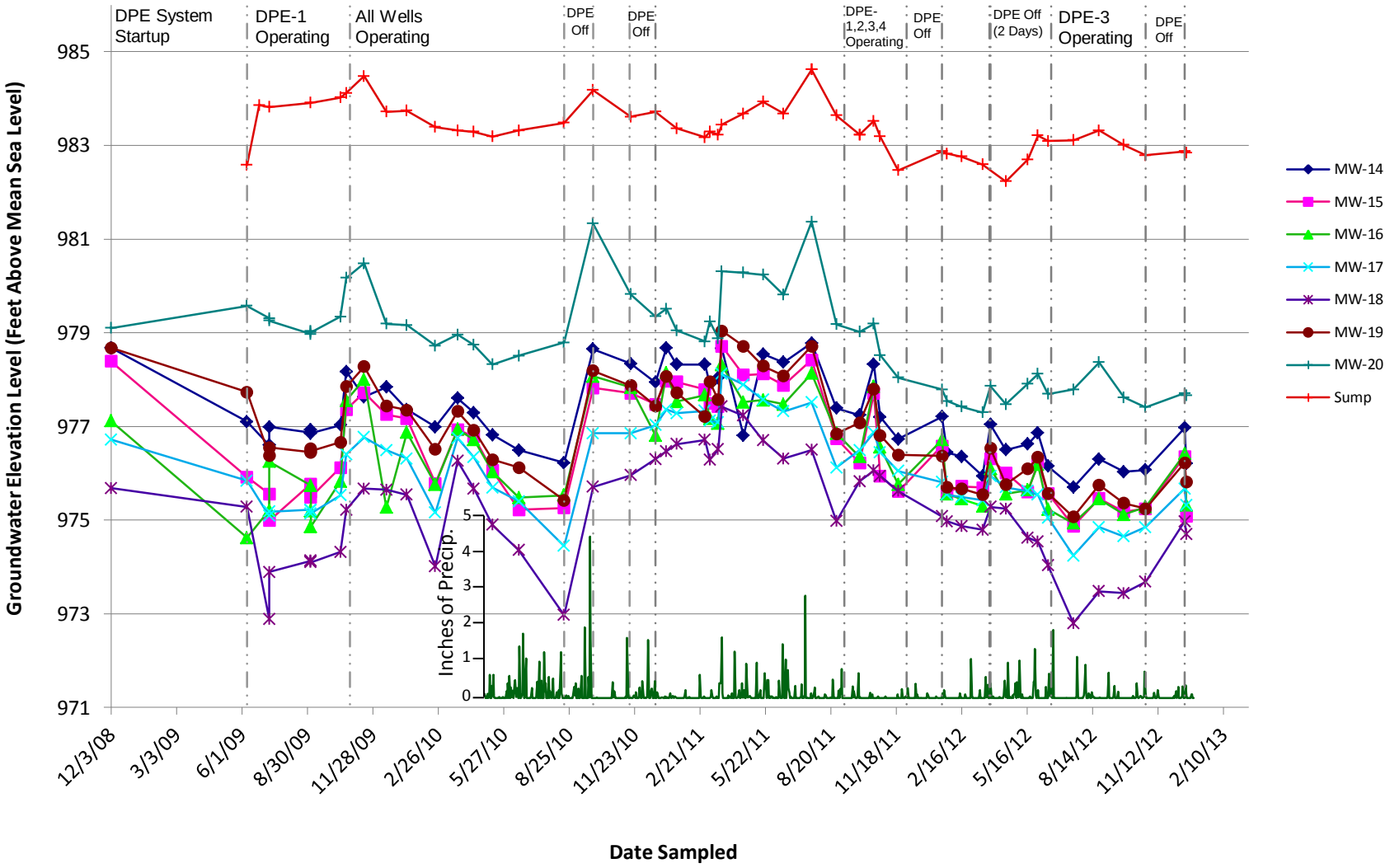
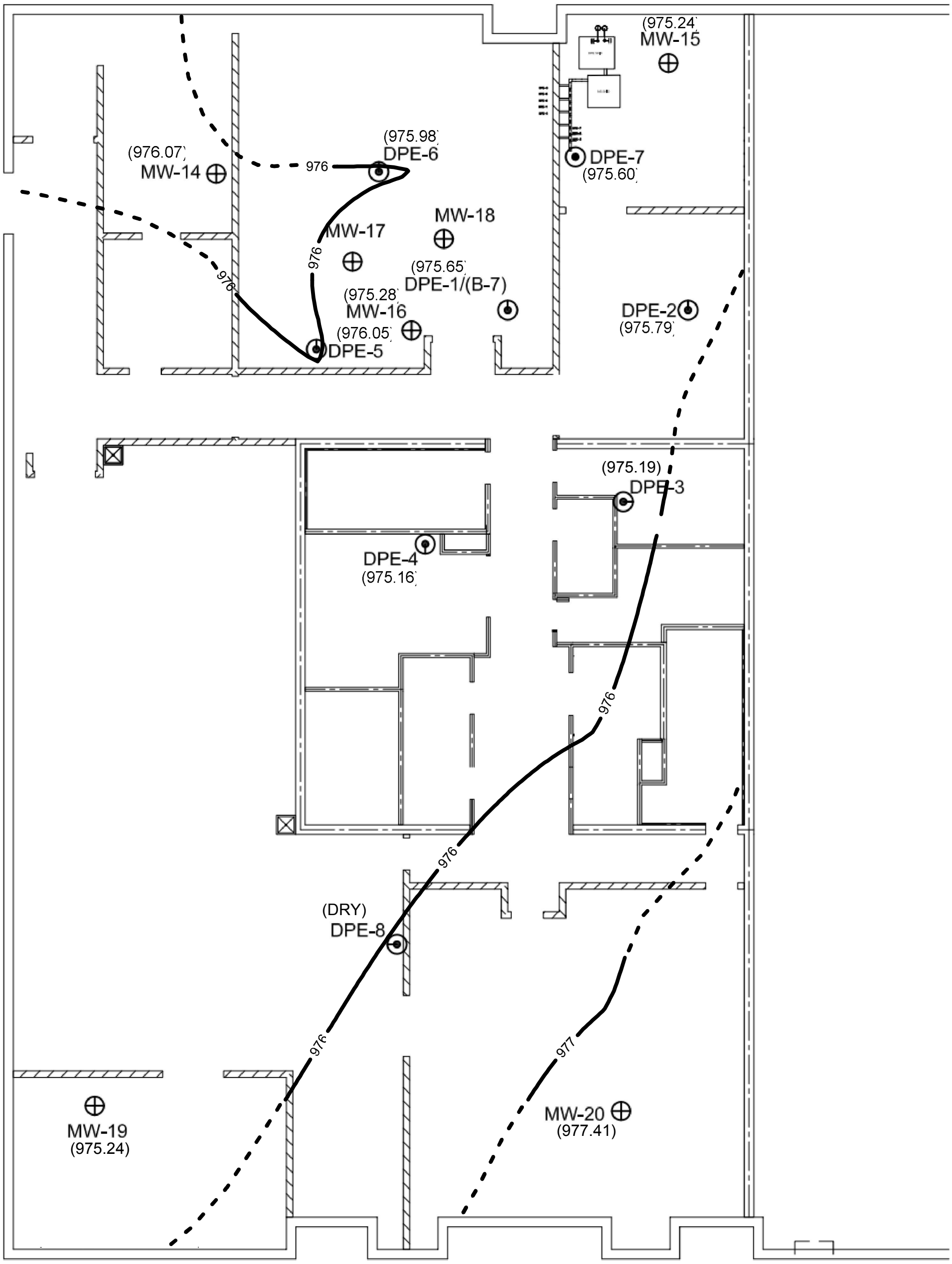


FIGURE 7

MONITORING WELL AND SUMP HYDROGRAPHS
MN Bio Business Center
221 1st Avenue SW
Rochester. Minnesota





LEGEND

⊙ DPE Well Location

⊕ Monitoring Well Locatior

(976.92) Groundwater Elevation (feet above mean sea level)

1. MW-17 and 18 are not shallow wells; therefore, the data from these wells was not used in the contouring calculations.

N

10 feet
SCALE

BASE DRAWING PROVIDED BY HGA

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Bloomington, MN 5543

FIGURE 8A
GROUNDWATER FLOW INTERPRETATION-
October 26, 2012
221 FIRST AVENUE S.W
ROCHESTER, MINNESOTA

Landmark Project Number: CRC			
Drawn: KAE	Checked: JDS	Designed: JDS	
Scale: .	Date: 1/20/2013	Revision:	
Drawing Number: .		Sheet . Of .	Sheets .

(976.36)
MW-15

MW-14
(976.21)

DPE-6
(976.74)

DPE-7
(976.46)

MW-17

MW-18
(976.56)

DPE-1/(B-7)
(976.42)

MW-16

DPE-2
(976.67)

(976.72)
DPE-5

(976.02)
DPE-3

DPE-4
(976.02)

976

976

977

(975.82)
DPE-8

976

977

MW-19
(976.22)

MW-20
(977.71)

LEGEND

- DPE Well Location
- Monitoring Well Locatior
- (976.92) Groundwater Elevation (feet above mean sea level)

1. MW-17 and 18 are not shallow wells; therefore, the data from these wells was not used in the contouring calculations.

N

10 feet
SCALE

BASE DRAWING PROVIDED BY HGA

Rev	Date	By	Description

LANDMARK ENVIRONMENTAL, LLC
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Bloomington, MN 5543

FIGURE 8E
GROUNDWATER FLOW INTERPRETATION-
December 19, 2012
221 FIRST AVENUE S.W
ROCHESTER, MINNESOTA

Landmark Project Number: CRC		
Drawn: KAE	Checked: JDS	Designed: JDS
Scale: .	Date: 1/29/2013	Revision:
Drawing Number: .	Sheet . Of .	Sheets .

FIGURE 9A

PCE CONCENTRATIONS IN GROUNDWATER
December 2008 to Present
MN Bio Business Center
221 1st Avenue SW
Rochester, Minnesota

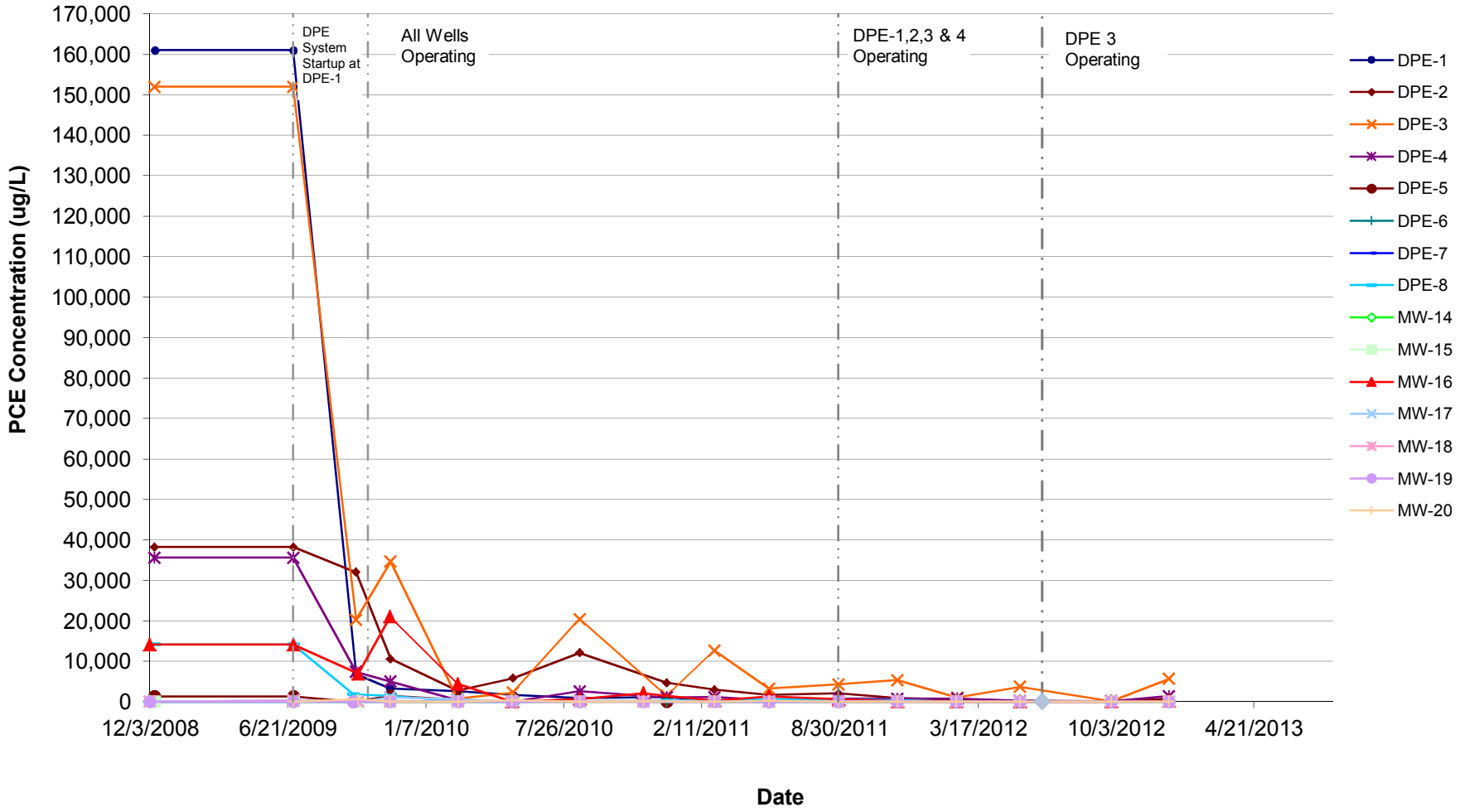
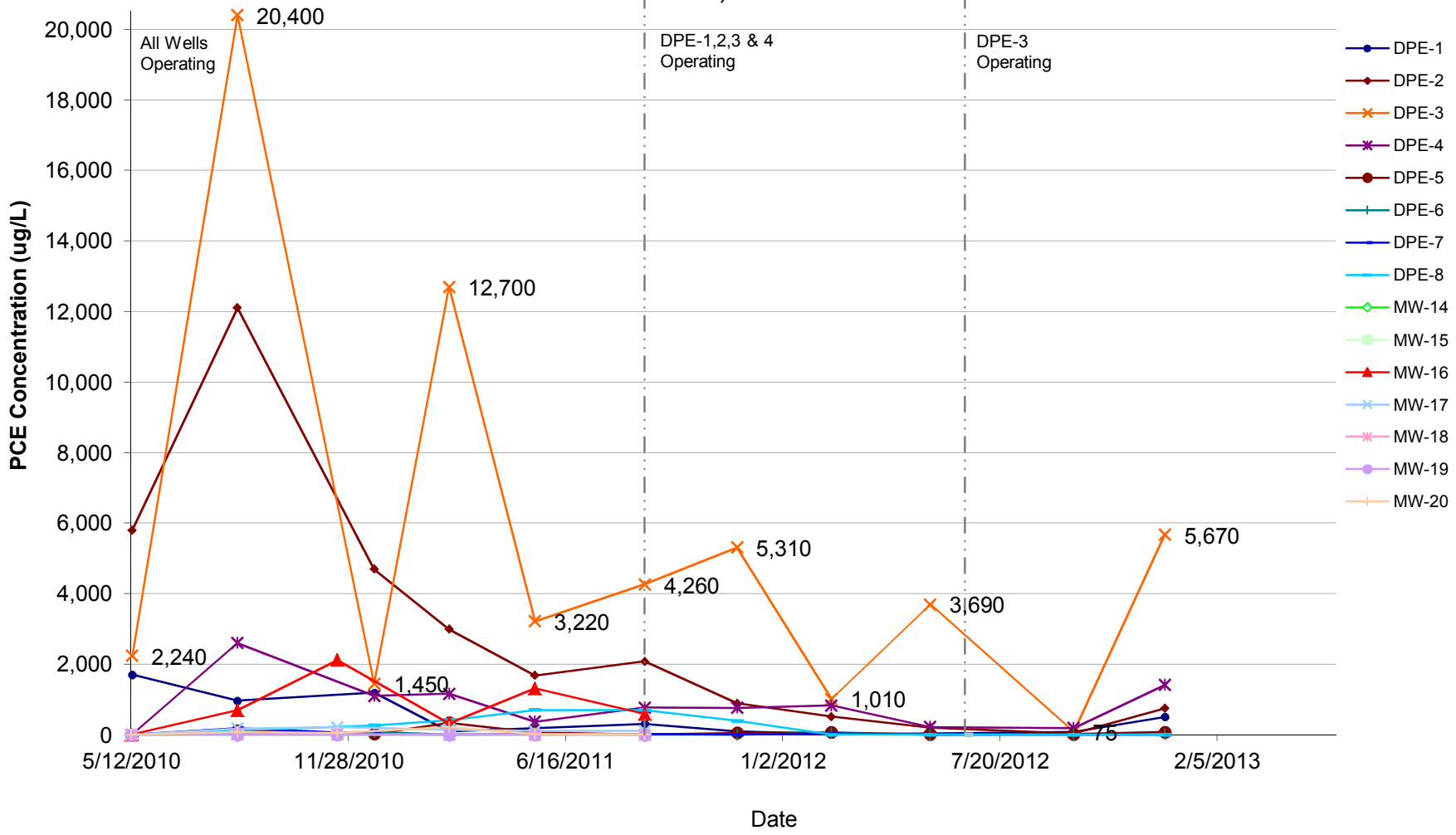
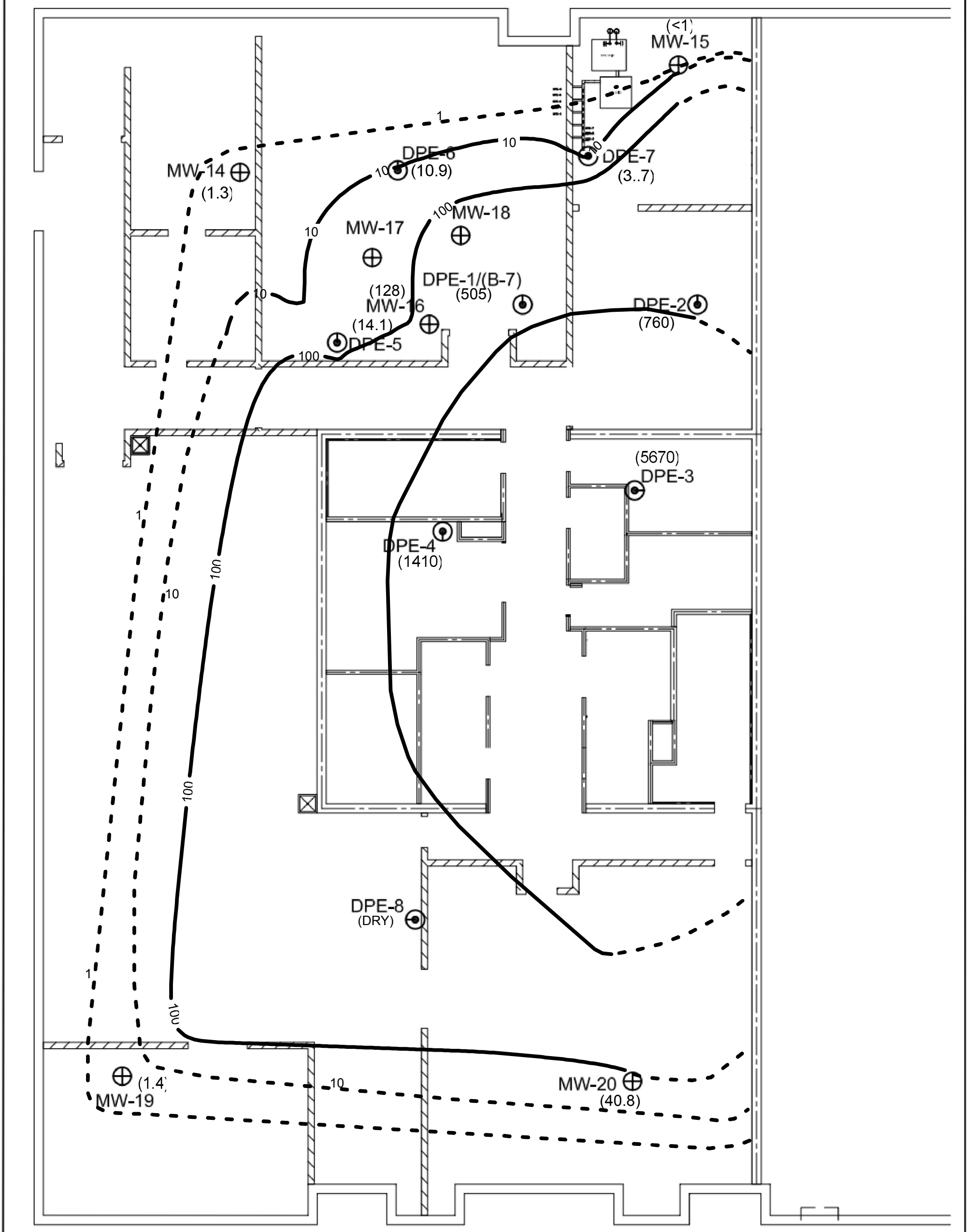


FIGURE 9B

PCE CONCENTRATIONS IN GROUNDWATER
May 2010 to Present
MN Bio Business Center
221 1st Avenue SW
Rochester, Minnesota





LEGEND

- DPE Well Locatior
- Monitoring Well Locatior
- (4.2) PCE Groundwater Concentration (micrograms per liter)

LEGEND

1. MW-17 and 18 are not shallow wells; therefore, the data from these wells was not used in the contouring calculations.

N

10 feet
SCALE

BASE DRAWING PROVIDED BY HGA

Rev	Date	By	Description

LANDMARK ENVIRONMENTAL, LLC
2042 West 98th Street
Bloomington, MN 5543

FIGURE 10
SHALLOW PCE GROUNDWATER CONCENTRATION INTERPRETATION
December 19, 2012
221 FIRST AVENUE S.W.
ROCHESTER, MINNESOTA

Landmark Project Number: CRC			
Drawn: KAE	Checked: JDS	Designed: JDS	
Scale: .	Date: 1/27/2013	Revision:	
Drawing Number: .	Sheet . Of .	Sheets .	

Tables

TABLE 1

SYSTEM OPERATION AND MAINTENANCE SUMMARY
MN Bio Business Center
221 1st Avenue SW
Rochester, Minnesota

Date	Approximate Time	Sensophone Call Received?	Alarm Condition	DPE System Status	Comments
9-Apr-09	NA	NA	NA	Off	DPE system temporary startup. **Sampled initial DPE groundwater discharge and air emissions.** System shut down to determine if air emissions and/or groundwater treatment were necessary.
4-Jun-09	NA	NA	NA	Off	Air stripper installed. **Air stripper air emissions and influent and effluent groundwater samples collected.**
5-Jun-09	NA	NA	NA	Off/On	Installed temporary secondary containment around DPE room door way. DPE system left on.
6-Jun-09	19:00	Y	MS High Level	On/Off	
8-Jun-09	NA	NA	NA	Off	Landmark on site to clean MS float switch assembly. DPE system left off per client request until elevator pit drain tile sump can be connected to the air stripper, a permanent secondary containment berm can be installed, and additional floor sump alarm and conductivity meter can be installed.
19-Jun-09	NA	NA	NA	Off	Landmark onsite to monitor elevator pit sump water levels and PID readings.
23-Jun-09	NA	NA	NA	Off	Landmark, SDE, and Muska on site to install permanent secondary containment berm and sump pit flow meter.
25-Jun-09	NA	NA	NA	Off	Landmark and PLC on site to terminate switches to the control panel. Noticed lower trilevel float switch is getting caught on the site tube. PLC to replace MS trilevel float assembly. Pumped 300 gallons of water from elevator drain tile sump through the air stripper. Sump appears to be recharging with water.
29-Jun-09	NA	NA	NA	Off/On	Landmark replaced MS trilevel float assembly. Bottom float still catches on site tube; therefore, Landmark installed JB-welded washers onto float assembly. Also compared flow meter readings with handheld monitor; replaced leaking air stripper hoses; recorded all system data from gauges and control panel. System restarted for permanent operation.
9-Jul-09	NA	NA	NA	On	Landmark onsite to troubleshoot low flowrate and vacuum readings observed remotely, to collect fluid level measurements at each well, to check the vacuum influence from DPE-1 operation at each DPE well head location; collect operational data during operation of DPE-1; to conduct a groundwater recovery test a DPE-1; modified the drop tube at DPE-3; and collected operational data wile operating on DPE-3. Kept system operating on DPE-1. **Sampled groundwater discharge.**
18-Jul-09	NA	No	DPE Pump Motor Fault	On/Off	
20-Jul-09	NA	NA	DPE Pump Motor Fault	Off	Received a call from Paramark stating the DPE was off and there was about 1 quart of oil leaking from the DPE pump.
22-Jul-09	NA	NA	DPE Pump Motor Fault	Off	Landmark onsite to troubleshoot DPE system shut down and determine the source of the oil leak.
24-Jul-09	NA	NA	DPE Pump Motor Fault	Off	Landmark and PLC onsite to remove DPE pump and deliver to John Henry Foster for Repair.

TABLE 1

SYSTEM OPERATION AND MAINTENANCE SUMMARY
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Date	Approximate Time	Sensophone Call Received?	Alarm Condition	DPE System Status	Comments
11-Aug-09	NA	NA	DPE Pump Motor Fault	Off/On	Landmark and PLC onsite to reinstall repaired DPE pump and restart the system. Landmark installed thermometer to monitor the ambient and max temperature in the DPE room in two different locations. Landmark swept, vacuumed, and mopped the floor several times to prevent dust from passing through the vacuum relief valve and clogging the pump inlet screen. PLC fixed the sensaphone. PLC and Landmark checked flow rate readings with blower curve. DPE system was restarted.
14-Aug-09	13:17	Y	DPE Pump High Inlet Vacuum	On/Off/On	Paramark opened all of the individual DPE well bleed valves and restarted the system.
16-Aug-09	4:34	Y	DPE Pump High Outlet Temperature	On/Off	
17-Aug-09	NA	NA	DPE Pump High Outlet Temperature	Off/On	Paramark checked max room temperature readings and all were OK. Paramark could not restart the DPE system. Landmark onsite to troubleshoot the pump and determined the inlet screen was plugged. Landmark cleaned the inlet screen, replaced the moisture separator filter, and restarted the system. The system was adjusted to run with the DPE pump bleed valve open 5% and the DPE-1 bleed valve open 20%.
18-Aug-09	4:15	Y	DPE Pump High Inlet Vacuum	On/Off	Landmark tried restarting the system remotely, but the system would not operate for more than 30 seconds. A pressure drop was observed while trying to restart the system indicating the moisture separator filter or pump inlet screen was plugged.
20-Aug-09	NA	NA	DPE Pump High Inlet Vacuum	Off/On	Landmark onsite to troubleshoot system shutdown. Landmark verified the shutdown was the result of a plugged pump intake screen. The screen was cleaned with hydrochloric acid and reinstalled. Landmark installed a pipe plug in place of the vacuum relief valve to determine if the material plugging the screen is entering through the vacuum relief valve. Landmark added slits to DPE-1 drop tube to facilitate dewatering of the well. System restarted with DPE-1 bleed air valve opened 50% and pump bleed valve closed.
22-Aug-09	5:30	Y	DPE Pump High Inlet Vacuum	On/Off	
24-Aug-09	NA	NA	DPE Pump High Inlet Vacuum	Off/On	Restarted system remotely. Directed Paramark to open DPE-1 bleed valve 100%.
4-Sep-09	NA	NA	NA	On	Landmark on site to conduct **monthly monitoring and sampling event**, install 1 micron moisture separator filter, and install new pump intake screen.

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SYSTEM OPERATION AND MAINTENANCE SUMMARY
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Date	Approximate Time	Sensophone Call Received?	Alarm Condition	DPE System Status	Comments
16-Sep-09	19:26	Y	DPE Pump High Inlet Vacuum	On/Off	
17-Sep-09	NA	NA	DPE Pump High Inlet Vacuum	Off/On	Restarted system remotely. Directed Paramark to open DPE-1 bleed valve 100%.
28-Sep-09	NA	NA	NA	On	Landmark on site to conduct **quarterly groundwater monitoring and sampling event**, and spray aluminum pump inlet components with dry lube to prevent corrosion.
	21:22	Y	DPE Pump High Inlet Vacuum	On/Off	
29-Sep-09	NA	NA	DPE Pump High Inlet Vacuum	Off/On	Landmark and PLC on site to troubleshoot alarm. The rubber hose between the moisture separator and the DPE pump was found to be defective. The rubber hose was replaced and the system was restarted.
30-Sep-09	6:32	Y	MS High Level	Off	
	NA	NA	MS High Level	Off/On	Landmark on site to finish **quarterly groundwater monitoring and sampling event**, and clean the float switches controlling the moisture separator transfer pump. The DPE system was restarted.
10/15/2009 and 10/16/09	NA	NA	NA	On	Landmark on site to conduct **monthly monitoring and sampling event** and modify all of the wells for sequential operation.
19-Oct-09	18:00	Y	MS High Level	On/Off	
23-Oct-09	NA	Yes	NA	Off/On	Landmark on site to clean the MS float assembly, replace MS hose with SCH 80 pipe and union, and install bleed air port on DPE-3 water level drop tube.
25-Oct-09	8:15	Y	MS High Level	On/Off	
27-Oct-09	NA	Yes	NA	Off/On	Landmark on site to clean MS float assembly, remove sediment from the MS, collect a TCLP VOC sediment sample for haz waste characterization, and modify the drop tube for DPE-3.
	14:15	Y	Hi Vacuum and Hi Inlet Vacuum	On/Off	System shut down from DPE-4's solenoid valve which was stuck in the off position.
28-Oct-09	NA	NA	Hi Vacuum and Hi Inlet Vacuum	Off/On	Under Landmark's direction, Paramark was able to get DPE-4's solenoid valve to work.
2-Nov-09	23:15	Y	Hi Vacuum and Hi Inlet Vacuum	On/Off	System shut down from high inlet vacuum while operating at DPE-8.
3-Nov-09	11:15	NA	Hi Vacuum and Hi Inlet Vacuum	Off/On	System restarted remotely by Landmark.

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Date	Approximate Time	Sensophone Call Received?	Alarm Condition	DPE System Status	Comments
5-Nov-09	11:16	Y	Hi Vacuum and Hi Inlet Vacuum	On/Off	System shut down from high inlet vacuum while operating at DPE-8.
	11:36	NA	Hi Vacuum and Hi Inlet Vacuum	Off/On	System restarted remotely by Landmark. DPE-8 interval replaced by DPE-1 until Landmark is on site to modify the DPE-8's well head. Large pressure drop observed between VT1 an VT2. With Paramark's assistance, Landmark was able to determine the pressure drop was from a plugged DPE pump inlet screen.
	13:00	NA	NA	On/Off	Large pressure drop observed between VT1 an VT2 while Landmark checked the system remotely. With Paramark's assistance, Landmark was able to determine the pressure drop was from a plugged DPE pump inlet screen. System shut down by Landmark until screen could be cleaned.
6-Nov-09	NA	NA	NA	Off/On	Landmark onsite to install new inlet screen on DPE pump, tighten air stripper rods, inspect and clean inside of DPE-1 and DPE-3 aluminum solenoid valves, and restart the system.
7-Nov-09	20:15	Y	Hi Vacuum and Hi Inlet Vacuum	On/Off	System shut down from high inlet vacuum while operating at DPE-4.
9-Nov-09	10:58	NA	Hi Vacuum and Hi Inlet Vacuum	Off/On	Landmark restarted the system remotely and adjusted the high vacuum alarm setpoints to 25 in. Hg.
15-Nov-09	6:27	Y	MS High Level	On/Off	
11/16/2009 and 11/17/09	NA	NA	MS High Level	Off/On	Landmark on site to conduct **monthly monitoring and sampling event** and **quarterly groundwater monitoring event.** Removed sediment from moisture separator, and modified DPE-8 well head, and cleaned pump inlet screen.
26-Nov-09	3:45	Y	DPE Pump Hi Outlet Temperature	On/Off	
27-Nov-09	NA	NA	DPE Pump Hi Outlet Temperature	Off/On	Landmark on site to clean the pump inlet screen and restart the system.
4-Dec-09	NA	NA	NA	On/Off	Landmark on site to clean solenoid valves and apply corrosion resistant coating to valves; DPE-4 and DPE-5 well heads modified to entrain air through water level port.
7-Dec-09	NA	NA	NA	Off/On	Landmark on site to reassemble solenoid valves; raise the manifold 1 foot; clean the pump inlet screen; and restart the system.
17-Dec-09	NA	NA	NA	On	Landmark on site to **conduct monthly monitoring and sampling event,** replace pump inlet screen, clean moisture separator, and clean floats.
28-Dec-09	NA	NA	NA	On	Landmark on site to replace pump inlet screen after remote monitoring indicated it was about to shut down from being clogged.
11-Jan-10	NA	NA	NA	On/Off	Landmark shut down the system remotely after the remote data indicated the pump inlet screen was clogged and about to shut down the system.

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Date	Approximate Time	Sensophone Call Received?	Alarm Condition	DPE System Status	Comments
14-Jan-10	NA	NA	NA	Off/On	Landmark on site to **conduct monthly monitoring and sampling event,** clean pump inlet screen, and clean moisture separator floats.
23-Jan-10	14:15	Y	DPE Pump High Inlet Vacuum	On/Off	
27-Jan-10	NA	NA	DPE Pump High Inlet Vacuum	Off/On	Landmark on site to clean the pump inlet screen and restart the system.
30-Jan-10	18:58	Y	MS High Level	On/Off	
3-Feb-10	NA	NA	MS High Level	Off/On	Landmark onsite to clean the transfer pump floats, clean the moisture separator, and clean the pump inlet screen.
	22:09	Y	MS High Level	On/Off	
4-Feb-10	14:50	NA	MS High Level	Off/On	Landmark directed Paramark to pour tap water through the site tube to dislodge the low level transfer pump float and restart the system.
6-Feb-10	7:22	Y	MS High Level	On/Off	
10-Feb-10	NA	NA	MS High Level	Off/On	Landmark onsite to clean the transfer pump floats, the moisture separator, the moisture separator site tube elbow, discharge pump floats, and the pump inlet screen. Landmark also restarted the system.
	16:47	Y	MS High Level	On/Off	
	18:00	NA	MS High Level	Off/On	Landmark restarted the system remotely.
	19:42	Y	MS High Level	On/Off	
11-Feb-10	10:34	NA	MS High Level	Off/On	Landmark restarted the system remotely.
	12:54	Y	MS High Level	On/Off	
12-Feb-10	NA	NA	MS High Level	Off/On	Landmark onsite to troubleshoot the MS High Level alarm. Landmark performed the following tasks: checked the MS level switch configurations; ran diagnostic tests to narrow down the cause of the MS High Level alarm; replaced the check valve upstream of the MS pump; and, took apart the MS pump head to inspect and clean the internal pump parts.
16-Feb-10	NA	NA	NA	On	System is operational; however, remote monitoring of the system showed the MS transfer pump cycling every 2 minutes. Landmark onsite to replace the MS transfer pump stator, and troubleshoot the continuous cycling issue with the transfer pump.
22-Feb-10	NA	NA	NA	On	Landmark onsite to conduct **monthly monitoring and sampling event, quarterly groundwater monitoring event,** to disabled the sensaphone sound alarm, and remove sediment from the primary moisture separator (MS1).

TABLE 1

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Date	Approximate Time	Sensophone Call Received?	Alarm Condition	DPE System Status	Comments
23-Feb-10	NA	NA	NA	On/Off/On	Landmark on site to finish the **quarterly groundwater monitoring event,** and to provide oversight while PLC installs the secondary moisture separator (MS2). MS2 level switch was determined to be faulty; however, the DPE system was restarted.
26-Feb-10	NA	NA	NA	On	Landmark and PLC were on site to replace the faulty level switch for MS2, and replace the MS1 and MS2 filters.
7-Mar-10	18:00	Y	DPE Pump High Inlet Vacuum	On/Off	
9-Mar-10	NA	NA	DPE Pump High Inlet Vacuum	Off/On	Landmark onsite to permanently remove the DPE pump inlet screen and change the oil in the DPE pump. Oil in the DPE pump was changed after 4,472 hours of operation.
25-Mar-10	NA	NA	NA	On	Landmark on site to **conduct monthly monitoring and sampling event,** and clean the air stripper by adding 1 gallon of hydrochloric acid.
26-Mar-10	5:16	Y	DPE Pump High Inlet Vacuum	On/Off/On	System shut down during operation at DPE-8. System restarted remotely by Landmark.
	11:15	Y	DPE Pump High Inlet Vacuum	On/Off/On	System shut down during operation at DPE-8. System restarted by Paramark as directed by Landmark after opening the bleed valve on DPE-8's well head.
	17:15	Y	DPE Pump High Inlet Vacuum	On/Off	System shut down during operation at DPE-8.
29-Mar-10	11:17	Y	DPE Pump High Inlet Vacuum	Off/On	System shut down during operation at DPE-8. System restarted remotely by Landmark after troubleshooting the system.
	12:36	Y	DPE Pump High Inlet Vacuum	On/Off/On	System shut down during operation at DPE-8. System restarted remotely by Landmark after troubleshooting the system.
	13:41	Y	DPE Pump High Inlet Vacuum	On/Off/On	System shut down during operation at DPE-8. System restarted remotely by Landmark after troubleshooting the system.
	13:42	Y	DPE Pump High Inlet Vacuum	On/Off/On	System shut down during operation at DPE-8. System restarted remotely by Landmark after troubleshooting the system.
	13:56	Y	DPE Pump High Inlet Vacuum	On/Off/On	System shut down during operation at DPE-8. System restarted remotely by Landmark after troubleshooting the system. To prevent system shutdown's during operation of DPE-8, Landmark modified the DPE system to allow DPE-7 to operate any time that DPE-8 is operating.
30-Mar-10	NA	NA	NA	On	Landmark on site to troubleshoot DPE-8.
8-Apr-10	NA	NA	NA	On	Landmark remote troubleshooting of DPE-8. Operated DPE-8 without DPE-7.
	11:35	Y	DPE Pump High Inlet Vacuum	On/Off/On	Landmark modified the DPE system to allow DPE-7 to operate any time that DPE-8 is operating.
12-Apr-10	12:36	Y	DPE Pump High Inlet Vacuum	On/Off/On	Landmark tested DPE-8 remotely to see if it could operate on its own. Landmark modified the DPE system to allow DPE-7 to operate any time that DPE-8 is operating.

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Date	Approximate Time	Sensophone Call Received?	Alarm Condition	DPE System Status	Comments
16-Apr-10	NA	NA	NA	On/Off/On	Landmark on site to **conduct monthly monitoring and sampling event,** replaced the check valve on the DPE-8 wellhead, and clean the air stripper by adding 1 gallon of hydrochloric acid.
17-Apr-10	23:20	Y	DPE Pump High Inlet Vacuum	On/Off/On	Landmark tested DPE-8 remotely to see if it could operate on its own. The system shut down; therefore, Landmark modified the DPE system to allow DPE-7 to operate any time that DPE-8 is operating.
4-May-10	NA	NA	NA	On/Off/On	Landmark tested DPE-8 remotely to see if it could operate on its own. The system shut down; therefore, Landmark modified the DPE system to allow DPE-7 to operate any time that DPE-8 is operating.
5-May-10	11:27	Y	DPE Pump High Inlet Vacuum	On/Off/On	The system shut down from DPE-8 operation; therefore, Landmark modified the DPE system to allow DPE-7 to operate any time that DPE-8 is operating.
13-May-10	NA	NA	NA	On	Landmark on site to conduct **monthly monitoring and sampling event, quarterly groundwater sampling event,** cleaned the air stripper by adding 1/2 gallon of hydrochloric acid. Plastic debris was found on the inlet side of the piping leaving the wellhead for DPE-8. Plastic piece was removed and the system shutdowns resulting from DPE-8 operation were resolved.
17-Jun-10	NA	NA	NA	On	Landmark on site to conduct **monthly monitoring and sampling event,** cleaned the air stripper by adding 1/2 gallon of hydrochloric acid.
29-Jun-10	6:04	Y	DPE Pump High Inlet Vacuum	On/Off/On	The system shut down after switching to DPE-1 operation. Landmark restarted the system remotely.
30-Jun-10	12:07	Y	DPE Pump High Inlet Vacuum	On/Off/On	The system shut down after switching to DPE-1 operation. Landmark restarted the system remotely and temporarily changed the DPE pump high inlet vacuum alarm to 24.5 inches Hg.
1-Jul-10	0:12	Y	DPE Pump High Inlet Vacuum	On/Off/On	The system shut down after switching to DPE-1 operation. Landmark restarted the system remotely and modified the system to operate DPE-1 and DPE-8 at the same time until the Landmark is on site for routine monitoring and can troubleshoot DPE-1. The DPE pump high inlet vacuum alarm was reset to 24 inches Hg.
8-Jul-10	0:27	Y	DPE Pump High Inlet Vacuum	On/Off/On	The system shut down after DPE-1 and DPE-8 operation switched to DPE-1 operation. Landmark restarted the system remotely and modified the system to operate DPE-1 and DPE-8 at the same time during 30 minutes of the DPE-1 cycle.
9-Jul-10	0:37	Y	DPE Pump High Inlet Vacuum	On/Off/On	The system shut down after DPE-1 and DPE-8 operation switched to DPE-1 operation. Landmark restarted the system remotely and modified the system to operate DPE-1 and DPE-8 at the same time during the entire DPE-1 cycle.
26-Jul-10	NA	NA	NA	On	Landmark on site to **conduct monthly monitoring and sampling event,** cleaned the air stripper by adding 1/2 gallon of hydrochloric acid. DPE-1 troubleshooting by pulling piping out of DPE-1 for cleaning and inspection. Sediments may have been clogging screen. Also noticed sanitary well seal was broken and missing rubber pieces. Fluid levels were not collected due to instrument malfunction. Air sampling flow controller malfunctioned and only operated for 3 hours. Therefore, a 3 hour composite air sample was collected.

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Date	Approximate Time	Sensophone Call Received?	Alarm Condition	DPE System Status	Comments
29-Jul-10	7:05	Y	DPE Pump Low Inlet Vacuum	On/Off/On	System shut down was actually due to a power outage in the building. This power outage may have also increased the elevator pit drain tile sump totalizer reading from 330 to 340 gallons. Paramark restarted the DPE system.
18-Aug-10	NA	NA	NA	On/Off	Landmark on site to **conduct monthly monitoring and sampling event and quarterly groundwater monitoring event.** Oil was observed to be leaking from the DPE pump; therefore, the pump was turned off immediately for inspection and troubleshooting by Landmark. **Monthly DPE system monitoring and sampling was not completed.** The transfer pump stator was replaced.
20-Aug-10	NA	NA	NA	Off	Landmark and John Henry Foster on site to troubleshoot DPE pump oil leak. The pump could not be fixed on site, so it was shipped back to John Henry Foster's shop for further inspection and repair.
27-Sep-10	NA	NA	NA	Off/On	Landmark and John Henry Foster on site to reinstall DPE pump. Landmark **conducted monthly monitoring and sampling event**. Air sampling flow controller malfunctioned and only operated for 30 minutes. Therefore, a 30 minute composite air sample was collected.
18-Oct-10	NA	NA	NA	On	Landmark **conducted monthly monitoring and sampling event**. Replaced MS#1 and MS#2 filters and cleaned air stripper by adding 1 gallon of hydrochloric acid.
16-Nov-10	11:20	NA	NA	On/Off	DPE system shut down due to a DPE pump oil leak discovered by Paramark.
18-Nov-10	NA	NA	NA	Off	Landmark and John Henry Foster on site to troubleshoot DPE pump oil leak. The pump could not be fixed on site, so it was shipped back to John Henry Foster's shop for further inspection and repair.
	NA	NA	NA	Off	Landmark onsite to conduct **quarterly groundwater monitoring event for non-DPE wells.**
22-Dec-10	NA	NA	NA	Off/On	Landmark and John Henry Foster on site to reinstall DPE pump. Landmark **conducted monthly monitoring and sampling event**. New oil in pump from repairs. Solenoid rebuild kits required for DPE-1, 2, and 8.
23-Dec-10	NA	NA	NA	Off	Landmark onsite to conduct **quarterly groundwater monitoring event for DPE wells.** Replaced 4" flex hose to air stripper.
6-Jan-11	NA	NA	NA	On	Landmark on site to install solenoid rebuild kits for DPE-1, 2, and 8.
	15:45	Y	DPE Pump High Inlet Vacuum	On/Off/On	DPE system turned off when operating on DPE-6. Landmark restarted system remotely. DPE-6 was left off until the coil to the solenoid valve could be replaced.
20-Jan-11	NA	NA	NA	On	Landmark onsite to conduct **monthly system monitoring and sampling event,** and troubleshoot DPE-2, DPE-4, and DPE-6 which appear to be stuck open. Hunt Electric on site to trouble shoot solenoid valves. They had to reset a breaker in the DPE system control panel and fixed DPE-2 and DPE-4. DPE-6 appears to have a faulty coil.
16-Feb-11	NA	NA	NA	On	Paramark contacted Landmark about a leak from the line from DPE-8 in the boiler room. Leak appears to be from pressure gauge.
	12:49	Y	DPE Pump Low Inlet Vacuum	On/Off	
	13:49	NA	NA	Off/On	Landmark restarted the DPE system remotely. DPE-8 taken offline.

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Date	Approximate Time	Sensophone Call Received?	Alarm Condition	DPE System Status	Comments
28-Feb-11	NA	NA	NA	On	Landmark onsite to conduct **monthly system monitoring and sampling event and quarterly groundwater sampling event,** change oil in the DPE pump (10,989 hrs), replaced hose from air stripper blower to the tank, fixed DPE-8 leak, put DPE-8 back on line, and installed solenoid valve rebuild kits at DPE-3, 5, and 7.
2-Mar-11	13:28	Y	MS High Level	On/Off	
7-Mar-11	NA	NA	NA	Off/On	Landmark onsite to replace the coil to DPE-6, clean the moisture separator, clean the moisture separator floats, and put DPE-8 back online.
18-Mar-11	13:30	NA	NA	On/Off	Landmark onsite to repair DPE-8 (possible bonnet gasket pinched), clean the moisture separator floats, replaced transfer pump stator, and troubleshoot constant transfer pump operation. DPE system left off after it was determined that the floats were not operational.
23-Mar-11	9:00	NA	NA	Off/On	Landmark onsite to conduct **monthly monitoring and sampling event**. Landmark also replaced MS-1 tri-level floats, and changed oil at 11,276 hours.
22-Apr-11	9:10	NA	NA	On	Landmark Onsite to conduct **monthly monitoring and sampling event**. Landmark also changed oil at 11,995 hours.
3-May-11	21:00	NA	NA	On	Landmark on site to troubleshoot and clean the discharge flow meter.
5-May-11	NA	NA	NA	On	Landmark on site to troubleshoot leaking solenoid valve. DPE-4 solenoid valve repaired.
19-May-11	6:00	NA	NA	On	Landmark onsite to conduct **monthly monitoring and sampling event as well as quarterly groundwater sampling event**. Landmark also changed oil at 12,645 hours.
16-Jun-11	12:00	NA	NA	On	Landmark onsite to conduct **monthly monitoring and sampling event**. Landmark also changed oil at 13,314 hours and installed new vacuum gauge in DPE 4 manifold.
18-Jul-11	15:37	Y	Lo Inlet Vacuum	On/Off/On	Contacted Paramark and the shutdown was due to a building power outage. Paramark restarted the system after the power returned.
21-Jul-11	11:00	Y	Air Stripper High High Level	On/Off	
	14:16	NA	NA	Off/On	Paramark onsite and turned AS pump to the "hand" position until the water level in the air stripper was below the High Level switch. Paramark returned AS pump to auto position and restarted the DPE system.
22-Jul-11	2:26	Y	Air Stripper High High Level	On/Off	
	8:00	NA	NA	Off/On	Paramark onsite and turned AS pump to the "hand" position until the water level in the air stripper was below the High Level switch. Paramark returned AS pump to auto position and restarted the DPE system.
	9:06	Y	Air Stripper High High Level	On/Off	
27-Jul-11	9:00	NA	NA	On	Landmark onsite to conduct **monthly monitoring and sampling event**. Landmark also changed oil at 14,169 hours and installed installed new transfer pump stator as well as cleaned floats..

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Date	Approximate Time	Sensophone Call Received?	Alarm Condition	DPE System Status	Comments
28-Aug-11	11:00	NA	NA	On	Landmark onsite to conduct **monthly monitoring and sampling event**. Landmark also changed oil at 14,962 hours and installed new transfer pump stator as well as rebuilt DPE-1 solonoid valve.
8-Sep-11	15:18	NA	NA	On	Landmark changed the operational configuration to focus operation on DPE-1, DPE_2, DPE-3, and DPE-4.
29-Sep-11	11:40	NA	NA	On	Landmark onsite to conduct **monthly monitoring and sampling event as well as quarterly groundwater sampling event.** Landmark also changed oil at 15,722 hours and installed new moisture separator filters (both 1 micron).
2-Oct-11	14:11	Y	Air Stripper High High Level	On/Off	
4-Oct-11	10:46	NA	NA	Off	Landmark onsite to troubleshoot system alarm. Air stripper floats cleaned. Landmark cleaned moisture separator floats at MS-1 and noticed the bottom float was causing the transfer pump to operate continuously. Hunt Electric onsite to troubleshoot MS-1 float issues and confirmed the bottom reed of the tri-level float assembly was causing electrical connection in any float position. Hunt checked wiring from the tri-level assembly to the panel and found no issues.
11-Oct-11	12:28	NA	NA	Off	Landmark onsite replace the tri-level float switch for MS-1 and replace the transfer pump stator. The low float on the tri-level switch was 1/2-inch lower than previous switch and was allowing air through the transfer pump, preventing the low float from shutting down the transfer pump. The tri-level switch was returned to PLC to be rebuilt. Therefore the system could not be restarted.
18-Oct-11	10:00	NA	NA	Off/On	Landmark onsite to install a new float switch assembly for MS-1. System restarted.
27-Oct-11	8:00	NA	NA	On	Landmark onsite to conduct **monthly monitoring and sampling event**. Landmark also changed oil at 16,013 hours.
21-Nov-11	11:00	NA	NA	On	Landmark onsite to conduct **monthly monitoring and sampling event**. Landmark also changed oil at 16,619 hours.
2-Dec-11	8:52	Y	Lo Inlet Vacuum	On/Off	DPE system shut down due to a low inlet vacuum alarm. Paramark inspected the DPE pump and observed an oil leak from the DPE pump.
12-Dec-11	13:00	NA	NA	Off	Landmark and JHF onsite to remove the DPE pump for repair.
21-Dec-11	11:00	NA	NA	Off	Landmark onsite to collect sump water sample and inspect corrosion on elevator support backets.
20-Jan-12	8:00	NA	NA	Off/On	Landmark and JHF onsite to reinstall the DPE pump and restart the DPE system.
27-Jan-12	9:00	NA	NA	On	Landmark onsite to conduct **monthly monitoring and sampling event**.
16-Feb-12	9:00	NA	NA	On	Landmark onsite to conduct **monthly monitoring and sampling event as well as quarterly groundwater sampling event**. Landmark also changed oil at 17,520 hours.
16-Mar-12	11:00	NA	NA	On	Landmark onsite to conduct **monthly monitoring and sampling event**. Landmark also changed oil at 18,219 hours.

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Date	Approximate Time	Sensophone Call Received?	Alarm Condition	DPE System Status	Comments
25-Mar-12	19:58	Y	Air Stripper High High Level	On/Off	
27-Mar-12	7:00	Y	Air Stripper High High Level	Off/On	Landmark onsite to clean the air stripper floats. System restarted.
17-Apr-12	10:25	NA	NA	On	Landmark onsite to conduct **monthly monitoring and sampling event**. Landmark also changed oil at 18,964 hours.
17-May-12	10:00	NA	NA	On	Landmark onsite to conduct **monthly monitoring and sampling event as well as quarterly groundwater sampling event**. Solenoid for DPE-3 faulty and taken off-line. Landmark also changed oil at 19,660 hours.
31-May-12	10:59	NA	NA	On	Landmark onsite and replaced solenoid bonnet for DPE-2 and DPE-3, and inner seal on DPE-1. Landmark also changed oil at 19,950 hours.
14-Jun-12	10:17	NA	NA	On	Landmark onsite to conduct **monthly monitoring and sampling event**. Landmark also changed oil at 20,279 hours.
18-Jun-12	14:18	NA	NA	On	**Landmark changed the DPE operational configuration from operating at DPE-1, DPE-2, DPE-3, and DPE-4 to operation of only DPE-3.**
19-Jul-12	11:11	NA	NA	On	Landmark onsite to conduct **monthly monitoring and sampling event**. Conducted troubleshooting of MS#1 and MS#2 pressure drop. Replaced DPE#3 solenoid components. Landmark also changed oil at 21,119 hours.
25-Jul-12	NA	NA	NA	On	Landmark onsite to replace filters for MS#1 and MS#2; replace transfer pump stator; and clean flow meter.
23-Aug-12	7:30	NA	NA	On	Landmark onsite to conduct **monthly monitoring and sampling event**. Conducted troubleshooting of MS#1 and MS#2 pressure drop. Landmark also changed oil at 21,872 hours.
26-Sep-12	20:12	NA	NA	On	Landmark onsite to conduct **monthly monitoring and sampling event as well as quarterly groundwater sampling event**. Pressure drop issue determined to be clogged demister pad from MS#2. Landmark also changed oil at 22,695 hours.
26-Oct-12	6:00	NA	NA	On/Off	Landmark onsite to conduct **monthly monitoring and sampling event. Landmark turned DPE system off to conduct rebound test.** DPE-3 solenoid valve rebuilt.
31-Oct-12	NA	NA	NA	Off	Landmark onsite to troubleshoot transfer pump.
19-Dec-12	NA	NA	NA	Off	Landmark onsite to conduct **quarterly groundwater sampling event and soil gas sampling event**.
21-Dec-12	NA	NA	NA	Off/On	Landmark onsite to **restart the DPE system for rebound emissions sampling and conduct monthly monitoring and sampling event.** Landmark also changed oil at 23,442 hours.

NA: Not Applicable.
Y: Yes.
N: No.

TABLE 2

MASS REMOVAL FROM DPE EXHAUST
MN Bio Business Center
221 1st Avenue SW
Rochester, Minnesota

Monitoring Period						Total VOCs			PCE		
Start Date	End Date	DPE Well(s) Operating	DPE Pump Hours	Hours Per Period	Total Flow Rate (scfm)	Concentration (ug/m^3)	Pounds Per Period	Cumulative pounds	Concentration (ug/m^3)	Pounds Per Period	Cumulative Pounds
---	6/29/2009	---	0	0	0	0	0	0	0	0	0
6/29/2009[3]	8/15/2009[1]	DPE-1	478.5	478.5	24.3	14,613,880	636.97	636.97	11,600,000	505.61	505.61
8/15/2009	9/4/2009[2]	DPE-1	957	478.5	36.1	3,795,092	245.74	882.71	3,630,000	235.05	740.66
9/4/2009	---	DPE-1	1428	471	36.1	3,795,092	241.89	1,124.60	3,630,000	231.37	972.02
---	10/15/2009[4]	DPE-1	1899	471	31.6	494,779	27.60	1,152.21	396,000	22.09	994.12
10/16/2009[5]	---	All Wells	1899	231	48.9	608,840	25.78	1,177.99	571,000	24.18	1018.30
---	11/17/2009[5]	All Wells	2361	231	48.9	453,479	19.20	1,197.19	381,000	16.13	1034.43
11/17/2009	12/17/2009[5]	All Wells	2960	599	48.9	12,510	1.37	1,198.56	6,790	0.75	1035.17
12/17/2009	1/14/2010[5]	All Wells	3568	608	48.9	11,403,200	1270.88	2,469.45	8,550,000	952.89	1988.07
1/14/2010	2/22/2010[6]	All Wells	4161	593	69.4	2,364,821	364.82	2,834.27	1,720,000	265.34	2253.41
2/22/2010	3/25/2010[7]	All Wells	4868	707	69.4	548	0.10	2,834.37	215,000	39.54	2292.96
3/25/2010	4/16/2010	All Wells	5308	440	77.9	331,284	42.57	2,876.93	282,000	36.23	2329.19
4/16/2010	5/12/2010	All Wells	5908	600	86.9	438,730	85.73	2,962.66	27,900	5.45	2334.64
5/12/2010	6/17/2010	All Wells	6768	860	55.6	50,553	9.06	2,971.72	689,000	123.50	2458.14
6/17/2010	7/26/2010	All Wells	7671	903	75.6	1,032,070	264.11	3,235.83	489,000	125.14	2583.28
7/26/2010	9/27/2010[8]	All Wells	8222	551	86.8	493,213	88.42	3,324.25	245,150	43.95	2627.23
9/27/2010	10/18/2010	All Wells	8662	440	77.4	246,881	31.52	3,355.77	1,300	0.17	2627.39
10/18/2010	12/22/2010	All Wells	9378	716	94.1	19,686	4.97	3,360.74	2,680	0.68	2628.07
12/22/2010	1/20/2011	All Wells	10034	656	88.0	46,334	10.03	3,370.77	5,040	1.09	2629.16
1/20/2011	2/28/2011	All Wells	10969	935	83.1	61,844	18.02	3,388.79	4,590	1.34	2630.50
2/28/2011	3/23/2011	All Wells	11277	308	64.8	21,690	1.62	3,390.41	7,340	0.55	2631.05
3/23/2011	4/22/2011	All Wells	11995	718	65.8	56,955	10.08	3,400.49	6,840	1.21	2632.26
4/22/2011	5/19/2011	All Wells	12645	650	61.3	29,665	4.43	3,404.92	6,270	0.94	2633.19
5/19/2011	6/16/2011	All Wells	13314	669	56.4	25,270	3.57	3,408.49	668	0.09	2633.29
6/16/2011	7/25/2011	All Wells	14169	855	59.5	8,991	1.71	3,410.20	308	0.06	2633.35
7/25/2011	8/28/2011	All Wells	14962	793	68.7	8,866	1.81	3,412.01	0	0.00	2633.35
8/28/2011	9/29/2011	DPE-1, 2, 3, & 4	15722	760	59.9	8,324	1.42	3,413.44	3,420	0.58	2633.93
9/29/2011	10/27/2011	DPE-1, 2, 3, & 4	16013	291	52.3	106,710	6.09	3,419.52	180	0.01	2633.94
10/27/2011	11/21/2011	DPE-1, 2, 3, & 4	16619	606	57.6	11,328	1.48	3,421.01	22,100	2.89	2636.83
11/21/2011	1/27/2012	DPE-1, 2, 3, & 4	17042	423	49.1	268,469	20.90	3,441.91	29,100	2.27	2639.10
1/27/2012	2/16//2012	DPE-1, 2, 3, & 4	17520	478	39.9	85,733	6.13	3,448.04	4,440	0.32	2639.41
2/16/2012	3/16/2012	DPE-1, 2, 3, & 4	18219	699	34.0	59,394	5.29	3,453.33	0	0.00	2639.41
3/16/2012	4/17/2012	DPE-1, 2, 3, & 4	18964	745	29.2	71,800	5.86	3,459.18	20,600	1.68	2641.09
4/17/2012	5/17/2012	DPE-1, 2, 3, & 4	19660	696	32.3	50,874	4.29	3,463.47	25,200	2.12	2643.22
5/17/2012	6/14/2012	DPE-1, 2, 3, & 4	20279	619	38.5	41,142	3.68	3,467.15	11,200	1.00	2644.22
6/14/2012	7/19/2012	DPE-3	21119	840	49.2	173,300	26.85	3,493.99	113,000	17.51	2661.72
7/19/2012	8/23/2012	DPE-3	21872	753	33.3	54,700	5.14	3,499.13	27,800	2.61	2664.34
8/23/2012	9/26/2012	DPE-3	22695	823	45.9	100,659	14.25	3,513.39	45,800	6.49	2670.82
9/26/2012	10/26/2012[9]	DPE-3	23397	702	40.1	1,099,548	116.03	3,629.42	664,000	70.07	2740.89
10/26/2012	12/21/2012	DPE-3	23442	45	48.1	447,600	3.63	3,633.05	358,000	2.90	2743.80

Notes:
1. The initial concentrations of total VOCs and PCE used for estimating the mass removed during the first 478.5 hours of system operation, which was estimated to be from, June 29, 2009, through August 15, 2009.
2. The concentrations of total VOCs and PCE from the September 4, 2009, sampling event were used for estimating the mass removed during the remaining 478.5 hours of system operation, which was estimated to be from August 15, 2009, through September 4, 2009.
3. The DPE system was temporarily started on April 9, 2009, for baseling DPE emissions sampling and analysis. The analytical data from April 4, 2009, was used for the emissions calculations on the estimated DPE system start date of June 29, 2009.
4. The flow rate used for the 10/15/09 calculations was from operation at DPE-1.
5. The flow rates used for the 10/16/09, 11/17/09, 12/17/09, and 1/14/10 calculations was from averaging the flowrates on 11/17/09 from each well during sequential operation of all DPE wells.
6. The flow rates used after 1/14/10 were averaged from the flow rates from each well during sequential operation of all DPE wells.
7: There was a typo when entering the DPE pump hours; therefore, this value was revised while entering the data from 4/16/10.
8: The 6-hr flow controller failed and only lasted 26 minutes during exhaust sample collection. Therefore, the concentrations used during this sampling event were averaged from the July 26 and October 18, 2010, sampling events.
9: Landmark believes the October 26, 2012, emissions results from Pace Analytical are suspect and are outliers from previous concentration trends.

TABLE 3

AIR EMISSIONS ANALYTICAL RESULTS
(micrograms per cubic meter)
MN Bio Business Center
221 1st Avenue SW
Rochester, MN

Sample ID	DPE-EXHAUST 0757	DPE-EXHAUST 1264	DPE-EXHAUST 0795	DPE-EXHAUST 2048	DPE-EXHAUST 1660
Wells Operating	DPE3	DPE3	DPE3	DPE-3	DPE-3
Sample Collection Method	6-hr Composite	6-hr Composite	6-hr Composite	6-hr Composite	6-hr Composite
Collected Date	12/21/2012	10/26/2012	9/26/2012	8/23/2012	7/19/2012
1,1,1-Trichloroethane	<1380	<383	<298	<478	<1100
1,1,2,2-Tetrachloroethane	<867	<241	<188	<300	<692
1,1,2-Trichloroethane	<683	<190	<148	<237	<546
1,1,2-Trichlorotrifluoroethane	**89600**	**433000**	**34800**	**26900**	**60300**
1,1-Dichloroethane	<1020	<283	<220	<353	<813
1,1-Dichloroethene	<1010	<280	<218	<349	<804
1,2,4-Trichlorobenzene	<1870	<521	<406	<650	<1500
1,2,4-Trimethylbenzene	<1240	<345	<269	<430	<991
1,2-Dibromoethane (EDB)	<1940	<538	<419	<671	<1550
1,2-Dichlorobenzene	<1510	<421	<328	<525	<1210
1,2-Dichloroethane	<509	<142	<110	<176	<407
1,2-Dichloropropane	<1170	<324	<253	<405	<932
1,3,5-Trimethylbenzene	<1240	<345	<269	<430	<991
1,3-Butadiene	<559	<155	<121	<194	<446
1,3-Dichlorobenzene	<1510	<421	<328	<525	<1210
1,4-Dichlorobenzene	<1510	<421	<328	<525	<1210
2-Butanone (MEK)	<745	<207	<161	<258	<595
2-Hexanone	<1030	<286	<223	<357	<823
2-Propanol	<621	**218**	<134	<215	<496
4-Ethyltoluene	<1240	<345	<269	<430	<992
4-Methyl-2-pentanone (MIBK)	<1030	<286	<223	<357	<823
Acetone	<596	<166	**169**	<207	<476
Benzene	<404	<112	<87.4	<140	<322
Benzyl chloride	<1300	<362	<282	<452	<1040
Bromodichloromethane	<1690	<469	<366	<585	<1350
Bromoform	<2610	<725	<564	<904	<2080
Bromomethane	<981	<273	<212	<340	<784
Carbon disulfide	<782	<217	<169	<271	<625
Carbon tetrachloride	<795	<221	<172	<275	<635
Chlorobenzene	<1170	<324	<253	<405	<932
Chloroethane	<670	<186	<145	<232	<536
Chloroform	<1230	<342	<266	<426	<982
Chloromethane	<521	<145	<113	<181	<417
cis-1,2-Dichloroethene	<1010	**370**	<218	<349	<804
cis-1,3-Dichloropropene	<1140	<318	<247	<396	<913
Cyclohexane	<869	<242	<188	<301	<694
Dibromochloromethane	<2150	<597	<465	<745	<1720
Dichlorodifluoromethane	<1250	<349	<271	<435	<1000
Dichlorotetrafluoroethane	<1760	<490	<382	<611	<1410
Ethanol	<472	**1960**	**18700**	<164	<377
Ethyl acetate	<906	<252	**1190**	<314	<724
Ethylbenzene	<1090	<304	<237	<379	<873
Hexachloro-1,3-butadiene	<2730	<759	<591	<947	<2180
m&p-Xylene	<2190	<608	<473	<758	<1750
Methylene Chloride	<882	<245	<191	<306	<704
Methyl-tert-butyl ether	<906	<252	<196	<314	<724
Naphthalene	<1330	<369	<288	<461	<1060
n-Heptane	<1030	<286	<223	<357	<823
n-Hexane	<894	<249	<194	<310	<714
o-Xylene	<1090	<304	<237	<379	<873
Propylene	<435	<121	<94.1	<151	<347
Styrene	<1080	<300	<234	<374	<863
Tetrachloroethene	**358000**	**664000**	**45800**	**27800**	**113000**
Tetrahydrofuran	<745	<207	<161	<258	<595
Toluene	<956	<266	<207	<331	<764
trans-1,2-Dichloroethene	<1010	<280	<218	<349	<804
trans-1,3-Dichloropropene	<1140	<318	<247	<396	<913
Trichloroethene	<683	<190	<148	<237	<546
Trichlorofluoromethane	<1420	<394	<306	<491	<1130
Vinyl acetate	<889	<247	<192	<308	<710
Vinyl chloride	<323	<89.7	<69.9	<112	<258
TOTAL VOCs	**447,600**	**1,099,548**	**100,659**	**54,700**	**173,300**

Bold: Parameter detected above the reporting limit.
NA: Not analyzed
1. Flow Controller failed on 9/27/10; however, a 1/2 hour composite sample was still collected.
2. Landmark believes the October 26, 2012 emissions results from Pace Analytical are suspect and are outliers from previous concentration trends

TABLE 3

AIR EMISSIONS ANALYTICAL RESULTS
(micrograms per cubic meter)
MN Bio Business Center
221 1st Avenue SW
Rochester, MN

Sample ID	DPE-EXHAUST 0558	DPE-EXHAUST 0361	DPE-EXHAUST 1071	DPE-EXHAUST 1637	DPE-EXHAUST 1289
Wells Operating	DPE-1,2,3 & 4	DPE-1,2,3 & 4	DPE-1,2,3 & 4	DPE-1,2,3 & 4	DPE-1,2,3 & 4
Sample Collection Method	6-hr Composite	6-hr Composite	6-hr Composite	6-hr Composite	6-hr Composite
Collected Date	6/14/2012	5/17/2012	4/17/2012	3/16/2012	2/16/2012
1,1,1-Trichloroethane	<341	**13.1**	<357	<682	<567
1,1,2,2-Tetrachloroethane	<214	<1.2	<224	<429	<360
1,1,2-Trichloroethane	<169	<0.92	<177	<338	<283
1,1,2-Trichlorotrifluoroethane	**29200**	**25500**	**51200**	**58500**	**60400**
1,1-Dichloroethane	<252	<1.4	<264	<504	<422
1,1-Dichloroethene	<249	<1.4	<260	<498	<417
1,2,4-Trichlorobenzene	<304	<1.7	<318	<608	<510
1,2,4-Trimethylbenzene	<307	**2.2**	<321	<614	<515
1,2-Dibromoethane (EDB)	<479	<2.6	<502	<958	<824
1,2-Dichlorobenzene	<375	<2.0	<392	<750	<618
1,2-Dichloroethane	<126	<0.69	<132	<252	<211
1,2-Dichloropropane	<289	<1.6	<302	<578	<484
1,3,5-Trimethylbenzene	<307	<1.7	<321	<614	<515
1,3-Butadiene	<138	<0.76	<145	<276	<232
1,3-Dichlorobenzene	<375	<2.0	<392	<750	<618
1,4-Dichlorobenzene	<375	<2.0	<392	<750	<618
2-Butanone (MEK)	<184	<1.0	<193	<369	<309
2-Hexanone	<255	<1.4	<267	<510	<428
2-Propanol	<768	<4.2	<804	<1540	<1290
4-Ethyltoluene	<307	<1.7	<322	<614	<1290
4-Methyl-2-pentanone (MIBK)	<255	<1.4	<267	<510	<428
Acetone	<147	**16.6**	<154	<295	<247
Benzene	<99.8	<0.55	<105	<200	<167
Benzyl chloride	<323	<1.8	<338	<645	<541
Bromodichloromethane	<418	<2.3	<437	<836	<721
Bromoform	<645	<3.5	<675	<1290	<1080
Bromomethane	<243	<1.3	<254	<485	<407
Carbon disulfide	<194	<1.1	<203	<387	<325
Carbon tetrachloride	<197	<1.1	<206	<393	<330
Chlorobenzene	<289	<1.6	<302	<578	<484
Chloroethane	<166	<0.91	<174	<332	<278
Chloroform	<304	<1.7	<318	<608	<510
Chloromethane	<129	<0.71	<135	<258	<216
cis-1,2-Dichloroethene	<249	**34.8**	<260	<498	<417
cis-1,3-Dichloropropene	<283	<1.5	<296	<565	<474
Cyclohexane	<209	<1.1	<219	<418	<350
Dibromochloromethane	<531	<2.9	<556	<1060	<876
Dichlorodifluoromethane	<310	**1.8**	<325	<621	<515
Dichlorotetrafluoroethane	<436	<2.4	<457	<872	<721
Ethanol	**742**	**51.8**	<122	**894**	<979
Ethyl acetate	<224	**37.6**	<235	<449	<376
Ethylbenzene	<270	<1.5	<283	<541	<453
Hexachloro-1,3-butadiene	<676	<3.7	<708	<1350	<1130
m&p-Xylene	<541	<3.0	<566	<1080	<907
Methylene Chloride	<218	<1.2	<228	<436	**1390**
Methyl-tert-butyl ether	<224	<1.2	<235	<449	<376
Naphthalene	<329	**1.8**	<344	<657	<1390
n-Heptane	<255	<1.4	<267	<510	<428
n-Hexane	<221	**1.6**	<232	<442	**585**
o-Xylene	<270	<1.5	<283	<541	<453
Propylene	<108	<0.59	<113	<215	<180
Styrene	<267	<1.5	<280	<535	<448
Tetrachloroethene	**11200**	**25200**	**20600**	<423	**4440**
Tetrahydrofuran	<184	<1.0	<193	<369	<309
Toluene	<237	**3.1**	<248	<473	<397
trans-1,2-Dichloroethene	<249	<1.4	<260	<498	<417
trans-1,3-Dichloropropene	<283	<1.5	<296	<565	<474
Trichloroethene	<169	**9.6**	<177	<338	<283
Trichlorofluoromethane	<350	<1.9	<367	<700	<567
Vinyl acetate	<218	<1.2	<228	<436	<366
Vinyl chloride	<79.9	<0.44	<83.6	<160	<134
TOTAL VOCs	**41,142**	**50,874**	**71,800**	**59,394**	**85,733**

Bold: Parameter detected above the reporting limit.
NA: Not analyzed
1. Flow Controller failed on 9/27/10; however, a 1/2 hour composite sample was still collected.
2. Landmark believes the October 26, 2012 emissions results from Pace Analytical are suspect and are outliers from previous concentration trends

TABLE 3

AIR EMISSIONS ANALYTICAL RESULTS
(micrograms per cubic meter)
MN Bio Business Center
221 1st Avenue SW
Rochester, MN

Sample ID	DPE-EXHAUST 1250	DPE-EXHAUST 1627	DPE-EXHAUST 1105251-01	DPE-EXHAUST 1214	DPE-EXHAUST 0260
Wells Operating	DPE-1,2,3 & 4	DPE-1,2,3 & 4	DPE-1,2,3 & 4	DPE-1,2,3 & 4	All DPE Wells
Sample Collection Method	6-hr Composite	6-hr Composite	6-hr Composite	6-hr Composite	6-hr Composite
Collected Date	1/27/2012	11/21/2011	10/27/2011	9/29/2011	8/28/2011
1,1,1-Trichloroethane	**51**	<260	<14	<33.9	<41.4
1,1,2,2-Tetrachloroethane	<1.3	<165	<17	<21.5	<26.2
1,1,2-Trichloroethane	<1.1	<130	<14	<16.9	<20.7
1,1,2-Trichlorotrifluoroethane	**56,100**	**244,000**	**11,000**	**103,000**	**8,150**
1,1-Dichloroethane	<1.6	<194	<10	<25.3	<30.8
1,1-Dichloroethene	<1.6	<192	<10	<24.9	<30.5
1,2,4-Trichlorobenzene	<1.9	<234	<18	<30.5	<37.2
1,2,4-Trimethylbenzene	**5.6**	<237	<4.9	**50.5**	<37.6
1,2-Dibromoethane (EDB)	<3.1	<379	<19	<49.3	<60.2
1,2-Dichlorobenzene	<2.3	<284	<15	<37.0	<45.1
1,2-Dichloroethane	<0.79	<97.1	<10	<12.6	<15.4
1,2-Dichloropropane	<1.8	<223	<12	<29.0	<35.3
1,3,5-Trimethylbenzene	<1.9	<237	<4.9	<30.8	<37.6
1,3-Butadiene	<0.86	<107	<5.5	<13.9	<16.9
1,3-Dichlorobenzene	<2.3	<284	<15	<37.0	<45.1
1,4-Dichlorobenzene	**5.4**	<284	<15	<37.0	<45.1
2-Butanone (MEK)	**5.2**	**343**	**11**	**80.1**	<22.6
2-Hexanone	<1.6	<197	<10	<25.6	<31.2
2-Propanol	**17.5**	<592	**16**	<77.0	<94.0
4-Ethyltoluene	<4.8	<592	<12	<77.0	<94.0
4-Methyl-2-pentanone (MIBK)	<1.6	<197	<10	<25.6	<31.2
Acetone	**43.6**	**693**	**25**	**58.3**	**53.1**
Benzene	**1.4**	<77.0	<3.2	<10.0	<12.2
Benzyl chloride	<2.0	<249	<13	<32.3	<39.5
Bromodichloromethane	<2.7	<332	<17	<43.1	<52.6
Bromoform	<4.0	<497	<26	<64.7	<79.0
Bromomethane	<1.5	<187	<9.5	<24.3	<29.7
Carbon disulfide	<1.2	<149	<8.0	<19.4	<23.7
Carbon tetrachloride	<1.2	<152	<16	<19.7	<24.1
Chlorobenzene	<1.8	<223	<12	<29.0	<35.3
Chloroethane	<1.0	<128	<6.5	<16.6	<20.3
Chloroform	**10.3**	<234	<12	<30.5	<37.2
Chloromethane	<0.81	<99.5	<5.0	<12.9	<15.8
cis-1,2-Dichloroethene	**80**	**262**	<10	**49.1**	<30.5
cis-1,3-Dichloropropene	<1.8	<218	<12	<28.3	<34.6
Cyclohexane	<1.3	<161	<8.5	<20.9	<25.6
Dibromochloromethane	<3.3	<403	<22	<52.4	<63.9
Dichlorodifluoromethane	<1.9	<237	<12	<30.8	<37.6
Dichlorotetrafluoroethane	<2.7	<332	<18	<43.1	<52.6
Ethanol	**249**	**777**	**81**	<58.5	**121**
Ethyl acetate	<1.4	<173	<9.0	<22.5	<27.4
Ethylbenzene	**3.1**	<208	<4.4	<27.1	<33.1
Hexachloro-1,3-butadiene	<4.2	<521	<26	<67.8	<82.7
m&p-Xylene	**3.9**	<417	<8.5	<54.2	<66.2
Methylene Chloride	<1.4	<168	**15**	<21.9	<26.7
Methyl-tert-butyl ether	<1.4	<173	<9.0	<22.5	<27.4
Naphthalene	<5.2	<639	<13	<83.2	<102
n-Heptane	**2.9**	<197	<10	<25.6	<31.2
n-Hexane	**6.9**	<170	<9.0	<22.2	<27.1
o-Xylene	**2.3**	<208	<4.4	<27.1	<33.1
Propylene	<0.67	<82.9	<4.3	<10.8	<13.2
Styrene	<1.7	<206	<10	<26.8	<32.7
Tetrachloroethene	**29100**	**22100**	**180**	**3420**	<25.9
Tetrahydrofuran	<1.2	<142	<7.5	<18.5	<22.6
Toluene	**7.5**	<182	<3.8	**29.6**	<29.0
trans-1,2-Dichloroethene	<1.6	<192	<10	<24.9	<30.5
trans-1,3-Dichloropropene	<1.8	<218	<12	<28.3	<34.6
Trichloroethene	**36.9**	**294**	<14	**22.2**	<20.7
Trichlorofluoromethane	<2.1	<260	<14	<33.9	<41.4
Vinyl acetate	<1.4	<168	<9.0	<21.9	<26.7
Vinyl chloride	<0.50	<61.6	<6.5	<8.0	<9.8
TOTAL VOCs	**268,469**	**11,328**	**106,710**	**8,324**	**8,866**

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NA: Not analyzed
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TABLE 3

AIR EMISSIONS ANALYTICAL RESULTS
(micrograms per cubic meter)
MN Bio Business Center
221 1st Avenue SW
Rochester, MN

Sample ID	DPE-EXHAUST 1571	DPE EXHAUST 0727	DPE EXHAUST 0416	DPE EXHAUST 0514	DPE EXHAUST 1186
Wells Operating	All DPE Wells	All DPE Wells	All DPE Wells	All DPE Wells	All DPE Wells
Sample Collection Method	6-hr Composite	6-hr Composite	6-hr Composite	6-hr Composite	6-hr Composite
Collected Date	7/25/2011	6/16/2011	5/19/2011	4/22/2011	3/23/2011
1,1,1-Trichloroethane	<39.6	<33.9	<280	<36.5	<39.6
1,1,2,2-Tetrachloroethane	<25.1	<21.5	<178	<46.5	<50.4
1,1,2-Trichloroethane	<19.8	<16.9	<140	<36.5	<39.6
1,1,2-Trichlorotrifluoroethane	**8,250**	**8,050**	**19,000**	**22,600**	**49,100**
1,1-Dichloroethane	<29.5	<25.3	<209	<27.2	<29.5
1,1-Dichloroethene	<29.2	<24.9	<206	<26.9	<29.2
1,2,4-Trichlorobenzene	<35.6	<30.5	<252	<32.9	<35.6
1,2,4-Trimethylbenzene	<36.0	<30.8	<254	<33.2	<36.0
1,2-Dibromoethane (EDB)	<57.6	<49.3	<407	<53.1	<57.6
1,2-Dichlorobenzene	<43.2	<37.0	<305	<39.8	<43.2
1,2-Dichloroethane	<14.8	<12.6	<104	<27.2	<29.5
1,2-Dichloropropane	<33.8	<29.0	<239	<31.2	<33.8
1,3,5-Trimethylbenzene	<36.0	<30.8	<254	<33.2	<36.0
1,3-Butadiene	<16.2	<13.9	<114	<14.9	<16.2
1,3-Dichlorobenzene	<43.2	<37.0	<305	<39.8	<43.2
1,4-Dichlorobenzene	<43.2	<37.0	<305	<39.8	<43.2
2-Butanone (MEK)	**27.1**	<18.5	<153	<19.9	<21.6
2-Hexanone	<29.9	<25.6	<211	<27.6	<29.9
2-Propanol	<90.0	<77.0	<636	<83.0	<90.0
4-Ethyltoluene	<90.0	<77.0	<636	<83.0	<90.0
4-Methyl-2-pentanone (MIBK)	<29.9	<25.6	<211	<27.6	<29.9
Acetone	**83.1**	**72.5**	<122	**88.4**	**25.4**
Benzene	<11.7	<10.0	<82.7	<21.6	<23.4
Benzyl chloride	<37.8	<32.3	<267	<34.9	<37.8
Bromodichloromethane	<50.4	<43.1	<356	<46.5	<50.4
Bromoform	<75.6	<64.7	<534	<69.7	<75.6
Bromomethane	<28.4	<24.3	<201	<26.2	<28.4
Carbon disulfide	<22.7	<19.4	<160	<20.9	<22.7
Carbon tetrachloride	<23.0	<19.7	<163	<43.2	<46.8
Chlorobenzene	<33.8	<29.0	<239	<31.2	<33.8
Chloroethane	<19.4	<16.6	<137	<17.9	<19.4
Chloroform	<35.6	<30.5	<252	<32.9	<35.6
Chloromethane	<15.1	<12.9	<107	<13.9	<15.1
cis-1,2-Dichloroethene	<29.2	<24.9	<206	<26.9	<29.2
cis-1,3-Dichloropropene	<33.1	<28.3	<234	<30.5	<33.1
Cyclohexane	<24.5	<20.9	<173	<22.6	<24.5
Dibromochloromethane	<61.2	<52.4	<432	<56.4	<61.2
Dichlorodifluoromethane	<36.0	<30.8	<254	<33.2	<36.0
Dichlorotetrafluoroethane	<50.4	<43.1	<356	<46.5	<50.4
Ethanol	**198**	**201**	<483	**137**	**139**
Ethyl acetate	<26.3	<22.5	<186	<24.2	<26.3
Ethylbenzene	<31.7	<27.1	<224	<29.2	<31.7
Hexachloro-1,3-butadiene	<79.2	<67.8	<560	<73.0	<79.2
m&p-Xylene	<63.4	<54.2	<448	<58.4	<63.4
Methylene Chloride	<25.6	<21.9	<181	<23.6	**310**
Methyl-tert-butyl ether	<26.3	<22.5	<186	<24.2	<26.3
Naphthalene	<97.2	<83.2	<687	<89.6	<97.2
n-Heptane	<29.9	<25.6	<211	<27.6	<29.9
n-Hexane	<25.9	<22.2	<183	<23.9	**40.9**
o-Xylene	<31.7	<27.1	<224	<29.2	<31.7
Propylene	<12.6	<10.8	<89.0	<11.6	<12.6
Styrene	<31.3	<26.8	<221	<28.9	<31.3
Tetrachloroethene	**308**	**668**	**6,270**	**6,840**	**7,340**
Tetrahydrofuran	<21.6	<18.5	<153	<19.9	<21.6
Toluene	<27.7	<23.7	<196	<25.6	<27.7
trans-1,2-Dichloroethene	<29.2	<24.9	<206	<26.9	<29.2
trans-1,3-Dichloropropene	<33.1	<28.3	<234	<30.5	<33.1
Trichloroethene	<19.8	<16.9	<140	<36.5	<39.6
Trichlorofluoromethane	<39.6	<33.9	<280	<36.5	<39.6
Vinyl acetate	<25.6	<21.9	<181	<23.6	<25.6
Vinyl chloride	<9.4	<8.0	<66.1	<17.3	<18.7
TOTAL VOCs	**8,991**	**25,270**	**29,665**	**56,955**	**21,690**

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TABLE 3

AIR EMISSIONS ANALYTICAL RESULTS
(micrograms per cubic meter)
MN Bio Business Center
221 1st Avenue SW
Rochester, MN

Sample ID	DPE EXHAUST 0798	DPE EXHAUST 1513	DPE EXHAUST 0224	DPE EXHAUST 0965	DPE EXHAUST 0096
Wells Operating	All DPE Wells	All DPE Wells	All DPE Wells	All DPE Wells	All DPE Wells
Sample Collection Method	6-hr Composite	6-hr Composite	6-hr Composite	6-hr Composite	1/2-hr Composite[1]
Collected Date	2/28/2011	1/20/2011	12/23/2010	10/18/2010	9/27/2010
1,1,1-Trichloroethane	<140	**20.8**	**45.6**	<146	<2.3
1,1,2,2-Tetrachloroethane	<88.8	<2.2	<46.5	<186	<3.0
1,1,2-Trichloroethane	<70.0	<1.7	<36.5	<146	<2.3
1,1,2-Trichlorotrifluoroethane	**17,100**	**56,200**	**42,700**	**16,300**	**9.2**
1,1-Dichloroethane	<104	<1.3	<27.2	<109	<1.7
1,1-Dichloroethene	<103	<1.3	<26.9	<108	<1.7
1,2,4-Trichlorobenzene	<126	<1.6	<32.9	<131	<2.1
1,2,4-Trimethylbenzene	<127	**3.3**	<33.2	**153**	<5.3
1,2-Dibromoethane (EDB)	<204	<2.5	<53.1	<212	<3.4
1,2-Dichlorobenzene	<153	<1.9	<39.8	<159	<2.6
1,2-Dichloroethane	<52.2	<1.3	<27.2	<109	<1.7
1,2-Dichloropropane	<120	<1.5	<31.2	<125	<2.0
1,3,5-Trimethylbenzene	<127	<1.6	<33.2	<133	<5.3
1,3-Butadiene	<57.2	<0.72	<14.9	<59.8	<0.96
1,3-Dichlorobenzene	<153	<1.9	<39.8	<159	<2.6
1,4-Dichlorobenzene	<153	<1.9	<39.8	<159	<2.6
2-Butanone (MEK)	<76.3	**41.4**	**26.9**	**1,120**	**12.1**
2-Hexanone	<106	<1.3	<27.6	<110	<1.8
2-Propanol	<318	**21.9**	<83.0	**484**	**9.6**
4-Ethyltoluene	<318	<4.0	<83.0	<332	<5.3
4-Methyl-2-pentanone (MIBK)	<106	**8.3**	<27.6	<110	<1.8
Acetone	<61.1	**29.0**	**78.0**	**227**	**53.9**
Benzene	<41.3	<1.0	<21.6	<86.3	<1.4
Benzyl chloride	<134	<1.7	<34.9	<139	<2.2
Bromodichloromethane	<178	<2.2	<46.5	<186	<3.0
Bromoform	<267	<3.3	<69.7	<279	<4.5
Bromomethane	<100	<1.3	<26.2	<105	<1.7
Carbon disulfide	<80.1	<1.0	<20.9	<83.7	<1.3
Carbon tetrachloride	<81.4	<2.1	<43.2	<173	<2.8
Chlorobenzene	<120	<1.5	<31.2	<125	<2.0
Chloroethane	<68.7	<0.86	<17.9	<71.7	<1.2
Chloroform	<126	**4.9**	<32.9	<131	<2.1
Chloromethane	<53.4	<0.67	<13.9	<55.8	**1.2**
cis-1,2-Dichloroethene	<103	**36.3**	**77.3**	<108	<1.7
cis-1,3-Dichloropropene	<117	<1.5	<30.5	<122	<2.0
Cyclohexane	<86.5	<1.1	<22.6	<90.3	<1.4
Dibromochloromethane	<216	<2.7	<56.4	<226	<3.6
Dichlorodifluoromethane	<127	<1.6	<33.2	<133	**2.6**
Dichlorotetrafluoroethane	<178	<2.2	<46.5	<186	<3.0
Ethanol	<242	**286**	**726**	<252	**48.3**
Ethyl acetate	<92.9	**3.4**	<24.2	<96.9	<1.6
Ethylbenzene	<112	**2.0**	<29.2	<117	<1.9
Hexachloro-1,3-butadiene	<280	<3.5	<73.0	<292	<4.7
m&p-Xylene	<224	**6.9**	<58.4	<234	<3.7
Methylene Chloride	<90.3	**101**	<23.6	<94.3	**294**
Methyl-tert-butyl ether	<92.9	<1.2	<24.2	<96.9	<1.6
Naphthalene	<343	<4.3	<89.6	<359	<5.8
n-Heptane	<106	<1.3	<27.6	<110	<1.8
n-Hexane	<91.6	<1.1	<23.9	<95.6	**45.9**
o-Xylene	<112	**5.8**	<29.2	<117	<1.9
Propylene	<44.5	<0.56	<11.6	<46.5	**1.3**
Styrene	<111	<1.4	<28.9	<116	<1.9
Tetrachloroethene	**4,590**	**5,040**	**2,680**	**1,300**	**6.5**
Tetrahydrofuran	<76.3	**6.3**	<19.9	<79.7	<1.3
Toluene	<97.9	**12.3**	<25.6	**102**	**21.2**
trans-1,2-Dichloroethene	<103	<1.3	<26.9	<108	<1.7
trans-1,3-Dichloropropene	<117	<1.5	<30.5	<122	<2.0
Trichloroethene	<70.0	**14.8**	<36.5	<146	**42.3**
Trichlorofluoromethane	<140	<1.7	<36.5	<146	<2.3
Vinyl acetate	<90.3	<1.1	<23.6	<94.3	<1.5
Vinyl chloride	<33.1	<0.83	<17.3	<69.1	<1.1
TOTAL VOCs	**61,844**	**46,334**	**19,686**	**548**	**493,213**

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TABLE 3

AIR EMISSIONS ANALYTICAL RESULTS
(micrograms per cubic meter)
MN Bio Business Center
221 1st Avenue SW
Rochester, MN

Sample ID	DPE EXHAUST 764	DPE EXHAUST 1248	DPE EXHAUST 764	DPE EXHAUST 726	DPE EXHAUST 1316
Wells Operating	All DPE Wells	All DPE Wells	All DPE Wells	All DPE Wells	All DPE Wells
Sample Collection Method	6-hr Composite	6-hr Composite	6-hr Composite	6-hr Composite	6-hr Composite
Collected Date	7/26/2010	6/17/2010	5/12/2010	4/16/2010	3/25/2010
1,1,1-Trichloroethane	<79.2	<760	**12.9**	ND	**30.7**
1,1,2,2-Tetrachloroethane	<101	<968	<2.7	ND	<2.5
1,1,2-Trichloroethane	<79.2	<760	<2.1	ND	<2.0
1,1,2-Trichlorotrifluoroethane	**3,720**	**342,000**	**21,900**	**153,000**	**115,000**
1,1-Dichloroethane	<59.0	<567	<1.6	ND	<1.5
1,1-Dichloroethene	<58.3	<560	<1.6	ND	**3.0**
1,2,4-Trichlorobenzene	<71.3	<684	<1.9	ND	<1.8
1,2,4-Trimethylbenzene	<180	<1730	<4.8	ND	**12.8**
1,2-Dibromoethane (EDB)	<115	<1110	<3.1	ND	<2.9
1,2-Dichlorobenzene	<86.4	<829	**5.5**	ND	<2.2
1,2-Dichloroethane	<59.0	<567	<1.6	ND	<1.5
1,2-Dichloropropane	<67.7	<650	**2.5**	ND	<1.7
1,3,5-Trimethylbenzene	<180	<1730	<4.8	ND	<4.5
1,3-Butadiene	<32.4	<311	<0.87	ND	<0.81
1,3-Dichlorobenzene	<86.4	<829	<2.3	ND	<2.2
1,4-Dichlorobenzene	<86.4	<829	**3.7**	ND	<2.2
2-Butanone (MEK)	<43.2	<415	**18.0**	ND	**44.2**
2-Hexanone	<59.8	<574	<1.6	ND	<1.5
2-Propanol	<180	<1730	**7.9**	ND	**19.0**
4-Ethyltoluene	<180	<1730	<4.8	ND	<4.5
4-Methyl-2-pentanone (MIBK)	<59.8	<574	<1.6	ND	<1.5
Acetone	**74.8**	<332	**509**	ND	**163**
Benzene	<46.8	<449	<1.3	ND	<1.2
Benzyl chloride	<1210	<726	<2.0	ND	<1.9
Bromodichloromethane	<101	<968	<2.7	ND	<2.5
Bromoform	<151	<1450	<4.1	ND	<3.8
Bromomethane	<56.9	<546	<1.5	ND	<1.4
Carbon disulfide	<45.4	<435	**7.7**	ND	**1.3**
Carbon tetrachloride	<93.6	<899	<2.5	ND	<2.3
Chlorobenzene	<67.7	<650	**3.1**	ND	<1.7
Chloroethane	<38.9	<373	<1.0	ND	<0.97
Chloroform	<71.3	<684	**4.9**	ND	**11.3**
Chloromethane	<30.2	<290	**9.6**	ND	<0.76
cis-1,2-Dichloroethene	**272**	**1,070**	**33.6**	ND	**80.2**
cis-1,3-Dichloropropene	<66.2	<636	<1.8	ND	<1.7
Cyclohexane	<49.0	<470	**3.7**	ND	**2.2**
Dibromochloromethane	<122	<1180	<3.3	ND	<3.1
Dichlorodifluoromethane	<72.0	<691	**4.1**	ND	**11.0**
Dichlorotetrafluoroethane	<101	<968	<2.7	ND	<2.5
Ethanol	<2190	<1310	**67.3**	ND	**26.1**
Ethyl acetate	<52.6	<505	<1.4	ND	<1.3
Ethylbenzene	<63.4	<608	<1.7	ND	**118**
Hexachloro-1,3-butadiene	<158	<1520	<4.2	ND	<4.0
m&p-Xylene	<127	<1220	**5.1**	ND	**456**
Methylene Chloride	<51.1	<491	<1.4	ND	<1.3
Methyl-tert-butyl ether	<52.6	<505	<1.4	ND	<1.3
Naphthalene	<194	<1870	<5.2	ND	<4.9
n-Heptane	<59.8	<574	**2.0**	ND	**2.7**
n-Hexane	<51.8	<498	<1.4	ND	**4.7**
o-Xylene	<63.4	<608	**1.8**	ND	**159**
Propylene	<25.2	<242	<0.68	ND	<0.63
Styrene	<62.6	<601	<1.7	ND	<1.6
Tetrachloroethene	**489,000**	**689,000**	**27,900**	**282,000**	**215,000**
Tetrahydrofuran	**45.3**	<415	**15.0**	ND	**58.0**
Toluene	<55.4	<532	**8.0**	ND	**28.4**
trans-1,2-Dichloroethene	<58.3	<560	<1.6	ND	<1.5
trans-1,3-Dichloropropene	<66.2	<636	<1.8	ND	<1.7
Trichloroethene	**101**	<760	**24.5**	**3,730**	**43.7**
Trichlorofluoromethane	<79.2	<760	<2.1	ND	<2.0
Vinyl acetate	<51.1	<491	**3.0**	ND	**8.9**
Vinyl chloride	<37.4	<359	<1.0	ND	<0.94
TOTAL VOCs	**1,032,070**	**50,553**	**438,730**	**331,284**	**2,364,821**

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TABLE 3

AIR EMISSIONS ANALYTICAL RESULTS
(micrograms per cubic meter)
MN Bio Business Center
221 1st Avenue SW
Rochester, MN

Sample ID	DPE EXHAUST 1037	DPE OUTLET 1042	DPE-OUTLET 0903	DPE-OUTLET 1254	DPE-EFFLUENT 519
Wells Operating	All DPE Wells	All DPE Wells	All DPE Wells	All DPE Wells	All DPE Wells
Sample Collection Method	6-hr Composite	6-hr Composite	6-hr Composite	6-hr Composite	6-hr Composite
Collected Date	2/22/2010	1/14/2010	12/17/2009	11/17/2009	10/16/2009
1,1,1-Trichloroethane	**61**	ND	**23.9**	ND	**81.7**
1,1,2,2-Tetrachloroethane	ND	ND	ND	ND	<2.2
1,1,2-Trichloroethane	ND	ND	ND	ND	<1.7
1,1,2-Trichlorotrifluoroethane	**644,000**	**2,720,000**	**4,440**	**72,100**	**172**
1,1-Dichloroethane	ND	ND	ND	ND	<1.3
1,1-Dichloroethene	**7.66**	ND	ND	ND	**13.9**
1,2,4-Trichlorobenzene	ND	ND	ND	ND	<1.5
1,2,4-Trimethylbenzene	ND	ND	ND	ND	<3.8
1,2-Dibromoethane (EDB)	ND	ND	ND	ND	<2.5
1,2-Dichlorobenzene	ND	ND	ND	ND	<1.8
1,2-Dichloroethane	ND	ND	ND	ND	<1.3
1,2-Dichloropropane	**7.05**	ND	ND	ND	<1.4
1,3,5-Trimethylbenzene	ND	ND	ND	ND	<3.8
1,3-Butadiene	ND	ND	ND	ND	<0.69
1,3-Dichlorobenzene	ND	ND	ND	ND	<1.8
1,4-Dichlorobenzene	ND	ND	ND	ND	<1.8
2-Butanone (MEK)	**12.9**	ND	ND	ND	**12.2**
2-Hexanone	ND	ND	ND	ND	<1.3
2-Propanol	NA	NA	NA	NA	**4.9**
4-Ethyltoluene	ND	ND	ND	ND	<3.8
4-Methyl-2-pentanone (MIBK)	ND	ND	ND	ND	<1.3
Acetone	**84.5**	**76,800**	**126**	**116**	**37,000**
Benzene	ND	ND	**16.2**	ND	**1.1**
Benzyl chloride	NA	NA	NA	NA	NA
Bromodichloromethane	ND	ND	ND	ND	<2.2
Bromoform	ND	ND	ND	ND	<3.2
Bromomethane	ND	ND	ND	ND	<1.2
Carbon disulfide	ND	ND	ND	ND	<0.97
Carbon tetrachloride	ND	ND	ND	ND	<2.0
Chlorobenzene	ND	ND	ND	ND	<1.4
Chloroethane	ND	ND	ND	ND	<0.83
Chloroform	**15.4**	ND	ND	ND	**25.8**
Chloromethane	ND	ND	ND	ND	<0.65
cis-1,2-Dichloroethene	**198**	ND	**47.2**	**118**	**257**
cis-1,3-Dichloropropene	ND	ND	ND	ND	<1.4
Cyclohexane	**14.3**	ND	**766**	ND	<1.0
Dibromochloromethane	ND	ND	ND	ND	<2.6
Dichlorodifluoromethane	ND	ND	ND	ND	<1.5
Dichlorotetrafluoroethane	ND	ND	ND	ND	<2.2
Ethanol	NA	NA	NA	NA	**8.9**
Ethyl acetate	ND	ND	ND	ND	<1.1
Ethylbenzene	ND	ND	ND	ND	**7.9**
Hexachloro-1,3-butadiene	ND	ND	ND	ND	<3.4
m&p-Xylene	ND	ND	ND	ND	**25.0**
Methylene Chloride	ND	ND	**270**	ND	<1.1
Methyl-tert-butyl ether	ND	ND	ND	ND	<1.1
Naphthalene	NA	NA	NA	NA	**5.6**
n-Heptane	ND	ND	ND	ND	<1.3
n-Hexane	**135**	ND	ND	ND	**2.1**
o-Xylene	ND	ND	ND	ND	**7.5**
Propylene	ND	ND	ND	ND	<0.54
Styrene	ND	ND	ND	ND	<1.3
Tetrachloroethene	**1,720,000**	**8,550,000**	**6,790**	**381,000**	**571,000**
Tetrahydrofuran	**45.6**	**56,400**	ND	**145**	**36.2**
Toluene	**124**	ND	**9.58**	ND	**17.6**
trans-1,2-Dichloroethene	ND	ND	ND	ND	<1.2
trans-1,3-Dichloropropene	ND	ND	ND	ND	<1.4
Trichloroethene	**116**	ND	**21.3**	ND	**153**
Trichlorofluoromethane	ND	ND	ND	ND	<1.7
Vinyl acetate	ND	ND	ND	ND	**7.4**
Vinyl chloride	ND	ND	ND	ND	<0.80
TOTAL VOCs	**11,403,200**	**12,510**	**453,479**	**608,840**	**494,779**

Bold: Parameter detected above the reporting limit.
NA: Not analyzed
1. Flow Controller failed on 9/27/10; however, a 1/2 hour composite sample was still collected.
2. Landmark believes the October 26, 2012 emissions results from Pace Analytical are suspect and are outliers from previous concentration trends

TABLE 3

AIR EMISSIONS ANALYTICAL RESULTS
(micrograms per cubic meter)
MN Bio Business Center
221 1st Avenue SW
Rochester, MN

Sample ID	DPE-EFFLUENT 253	DPE - EFFLUENT 0680
Wells Operating	DPE-1	DPE-1
Sample Collection Method	Grab	Grab
Collected Date	10/15/2009	9/4/2009
1,1,1-Trichloroethane	**4.2**	**127**
1,1,2,2-Tetrachloroethane	<2.1	<2.1
1,1,2-Trichloroethane	<1.6	<1.6
1,1,2-Trichlorotrifluoroethane	**97,900**	**153,000**
1,1-Dichloroethane	<1.2	<1.2
1,1-Dichloroethene	<1.2	15.0
1,2,4-Trichlorobenzene	<1.5	<1.5
1,2,4-Trimethylbenzene	<3.7	**10.2**
1,2-Dibromoethane (EDB)	<2.4	<2.4
1,2-Dichlorobenzene	<1.8	<1.8
1,2-Dichloroethane	<1.2	<1.2
1,2-Dichloropropane	<1.4	<1.4
1,3,5-Trimethylbenzene	<3.7	**5.0**
1,3-Butadiene	<0.67	<0.67
1,3-Dichlorobenzene	<1.8	**6.0**
1,4-Dichlorobenzene	<1.8	**8.6**
2-Butanone (MEK)	<0.89	**15.8**
2-Hexanone	<1.2	<1.2
2-Propanol	<3.7	<3.7
4-Ethyltoluene	<3.7	**6.0**
4-Methyl-2-pentanone (MIBK)	<1.2	<1.2
Acetone	**501**	**7,510**
Benzene	**1.5**	**2.3**
Benzyl chloride	NA	NA
Bromodichloromethane	<2.1	<2.1
Bromoform	<3.1	<3.1
Bromomethane	<1.2	<1.2
Carbon disulfide	<0.93	**5.9**
Carbon tetrachloride	<1.9	<1.9
Chlorobenzene	<1.4	<1.4
Chloroethane	<0.80	<0.80
Chloroform	<1.5	**21.5**
Chloromethane	<0.62	<0.62
cis-1,2-Dichloroethene	**21.5**	**2,620**
cis-1,3-Dichloropropene	<1.4	<1.4
Cyclohexane	<1.0	**3.5**
Dibromochloromethane	<2.5	<2.5
Dichlorodifluoromethane	**2.8**	<1.5
Dichlorotetrafluoroethane	<2.1	<2.1
Ethanol	**8.4**	**5.7**
Ethyl acetate	<1.1	<1.1
Ethylbenzene	<1.3	<1.3
Hexachloro-1,3-butadiene	<3.3	<3.3
m&p-Xylene	**2.6**	**14.2**
Methylene Chloride	**276**	<1.1
Methyl-tert-butyl ether	<1.1	<1.1
Naphthalene	<4.0	**4.2**
n-Heptane	<1.2	**2.6**
n-Hexane	**35.4**	**3.4**
o-Xylene	<1.3	**4.8**
Propylene	<0.52	<0.52
Styrene	<1.3	<1.3
Tetrachloroethene	**396,000**	**3,630,000**
Tetrahydrofuran	<0.89	**31.1**
Toluene	**10.3**	**14.4**
trans-1,2-Dichloroethene	<1.2	**4.2**
trans-1,3-Dichloropropene	<1.4	<1.4
Trichloroethene	**13.6**	**1,640**
Trichlorofluoromethane	**1.7**	**2.2**
Vinyl acetate	<1.1	**8.7**
Vinyl chloride	<0.77	<0.77
TOTAL VOCs	**3,795,077**	**14,603,780**

Bold: Parameter detected above the reporting limit.
NA: Not analyzed
1. Flow Controller failed on 9/27/10; however, a 1/2 hour composite sample was still collected.
2. Landmark believes the October 26, 2012 emissions results from Pace Analytical are suspect and are outliers from previous

TABLE 4

EMISSIONS RATES SUMMARY
MN Bio Business Center
221 1st Avenue SW
Rochester, Minnesota

Date	DPE Wells Operating	Parameter	Conc. (ug/m^3)	RRASS Emissions Summary						PR Program Emissions Summary					
				DPE (ug per sec)	AS (ug per sec)	Site Specific (ug per sec)	Excess Lifetime Cancer Risk (guideline value = 1E-05)	SER for Chronic Risk (ug per sec)	SER for Acute Risk (ug per sec)	DPE (ug per sec)	AS (ug per sec)	Site Specific (ug per sec)	Acute Hazard Quotient	Chronic Hazard Quotient	Excess Lifetime Cancer Risk (guideline value = 1E-05)
9/4/2009	DPE-1	PCE	3,630,000	61,710	70	**61,780**	NA	16,300	5,980,000	NA	NA	NA	NA	NA	NA
10/15/2009	DPE-1	PCE	396,000	5,940	5.6	5,946	NA	16,300	5,980,000	NA	NA	NA	NA	NA	NA
10/16/2009	All Wells	PCE	571,000	8,565	5.6	8,571	NA	16,300	5,980,000	NA	NA	NA	NA	NA	NA
11/17/2009	All Wells	PCE	381,000	4,953	0.5	4,953	NA	16,300	5,980,000	NA	NA	NA	NA	NA	NA
12/17/2009	All Wells	PCE	6,790	197	0.5	197	NA	16,300	5,980,000	NA	NA	NA	NA	NA	NA
1/14/2010	All Wells	PCE	8,550,000	393,300	3.9	**393,304**	NA	16,300	5,980,000	NA	NA	NA	NA	NA	NA
2/22/2010	All Wells	PCE	1,720,000	82,560	1.3	**82,561**	NA	16,300	5,980,000	NA	NA	NA	NA	NA	NA
3/25/2010	All Wells	PCE	215,000	11,180	2.1	11,182	NA	16,300	5,980,000	NA	NA	NA	NA	NA	NA
4/16/2010	All Wells	PCE	282,000	9,588	1.3	9,589	NA	16,300	5,980,000	NA	NA	NA	NA	NA	NA
5/12/2010	All Wells	PCE	27,900	1,729	0.8	1,730	NA	16,300	5,980,000	NA	NA	NA	NA	NA	NA
6/17/2010	All Wells	PCE	689,000	11,713	3.9	11,717	NA	16,300	5,980,000	NA	NA	NA	NA	NA	NA
7/26/2010	All Wells	PCE	489,000	22,983	1.2	**22,984**	NA	16,300	5,980,000	NA	NA	NA	NA	NA	NA
10/18/2010	All Wells	PCE	1,300	79	6.5	86	NA	16,300	5,980,000	NA	NA	NA	NA	NA	NA
12/23/2010	All Wells	PCE	2,680	64	3.2	68	NA	16,300	5,980,000	NA	NA	NA	NA	NA	NA
1/20/2011	All Wells	PCE	5,040	282	3.5	286	NA	16,300	5,980,000	NA	NA	NA	NA	NA	NA
2/28/2011	All Wells	PCE	4,590	225	4.1	229	NA	16,300	5,980,000	NA	NA	NA	NA	NA	NA
3/23/2011	All Wells	PCE	7,340	250	0.18	250	NA	16,300	5,980,000	NA	NA	NA	NA	NA	NA
4/22/2011	All Wells	PCE	6,840	233	5.53	239	1.5E-07	16,300	5,980,000	235	5	240	0	0	1.9E-07
5/19/2011	All Wells	PCE	6,270	125	0.67	126	7.8E-08	16,300	5,980,000	121	1	122	0	0	9.8E-08
6/16/2011	All Wells	PCE	668	14	0.40	14	8.9E-09	16,300	5,980,000	14	0	14	0	0	1.2E-08
7/25/2011	All Wells	PCE	308	NA	NA	NA	NA	NA	NA	6	5	11	0	0	8.5E-09
8/28/2011	All Wells	PCE	0	NA	NA	NA	NA	NA	NA	0	7	7	0	0	5.5E-09
9/29/2011	DPE-1,2,3,4	PCE	3,420	NA	NA	NA	NA	NA	NA	97	0	97	0	0	1.0E-07
10/27/2011	DPE-1,2,3,4	PCE	180	NA	NA	NA	NA	NA	NA	4	0	4	0	0	5.2E-09
11/21/2011	DPE-1,2,3,4	PCE	22,100	NA	NA	NA	NA	NA	NA	578	1	579	0	0	5.1E-07
1/27/2012	DPE-1,2,3,4	PCE	29,100	NA	NA	NA	NA	NA	NA	674	3	677	0	0	3.7E-10
2/16/2012	DPE-1,2,3,4	PCE	4,440	NA	NA	NA	NA	NA	NA	84	2	86	0	0	7.1E-08
3/16/2012	DPE-1,2,3,4	PCE	0	NA	NA	NA	NA	NA	NA	0	1	1	0	0	4.9E-10
4/17/2012	DPE-1,2,3,4	PCE	20,600	NA	NA	NA	NA	NA	NA	284	1	285	0	0	2.4E-07
5/17/2012	DPE-1,2,3,4	PCE	25,200	NA	NA	NA	NA	NA	NA	384	1	385	0	0	3.1E-07
6/14/2012	DPE-1,2,3,4	PCE	11,200	NA	NA	NA	NA	NA	NA	204	1	205	0	0	1.6E-07
7/19/2012	DPE-3	PCE	113,000	NA	NA	NA	NA	NA	NA	2,624	0	2,624	0	0	2.1E-06
8/23/2012	DPE-3	PCE	27,800	NA	NA	NA	NA	NA	NA	437	1	438	0	0	3.5E-07
9/26/2012	DPE-3	PCE	45,800	NA	NA	NA	NA	NA	NA	983	0	983	0	0	7.9E-07
10/26/2012[1]	DPE-3	PCE	664,000	NA	NA	NA	NA	NA	NA	12,535	5	12,540	0	0.2	1.0E-05
12/21/2012	DPE-3	PCE	358,000	NA	NA	NA	NA	NA	NA	8,127	13	8,140	0	0.1	6.5E-06

Notes:
SERs: MPCA Screening Emissions Rates
61,780 Emissions rate is above MPCA SER
NA: Not Applicable
1: Landmark believes the October 26, 2012, emissions results from Pace Analytical are suspect and are outliers from previous concentration trends.

Table 5

Mass Removal from Groundwater Treatment System
MN Bio Business Center
221 1st Avenue SW
Rochester, Minnesota

Monitoring Period		Days per Period	Hours per Period	Flow Meter Reading (gallons)	Gallons Treated During Period	Average Flow Rate (gpm)	Average Flow Rate (liter/sec)	Total VOCs		% Reduction	Mass Removed per Period (lbs)	Cumulative Mass Removed (lbs)	Addition to Emission Rate (lbs/day)
Start Date[1]	End Date							Influent Conc. (ug/L)	Effluent Conc. (ug/L)				
4/9/2009[2]	4/9/2009	0	2	119	51	0.4	0.027	176,343	NA	NA	NA	NA	NA
6/4/2009	6/4/2009[3]	0	2	192	73	0.6	0.038	4,630	8,991	-94	NA	NA	NA
6/4/2009	7/9/2009	11	264	16,115	15,923	1.0	0.063	1,547	479	69	0.14	0.14	0.01
7/9/2009	9/4/2009	57	1368	38,299	22,184	0.3	0.017	191	20	90	0.03	0.17	0.001
9/4/2009	10/15/2009	41	984	62,643	24,344	0.4	0.026	238	0	100	0.05	0.22	0.001
10/15/2009	11/16/2009	32	768	73,800	11,157	0.2	0.015	31	0	100	0.00	0.22	0.000
11/16/2009	12/17/2009[4]	31	744	89,800	16,000	0.4	0.023	24	12	50	0.00	0.23	0.000
12/17/2009	1/14/2010	28	672	106,024	16,224	0.4	0.025	309	32	90	0.04	0.26	0.001
1/14/2010	2/22/2010	39	936	122,167	16,143	0.3	0.018	73	16	78	0.01	0.27	0.000
2/22/2010	3/25/2010[5,6]	31	744	148,206	26,039	0.6	0.037	507	764	-51	-0.06	0.27	-0.002
3/25/2010[5,6]	4/16/2010[5]	22	528	161,857	13,651	0.4	0.027	61	525	-765	-0.05	0.27	-0.002
4/16/2010	5/12/2010	26	624	170,079	8,222	0.2	0.014	66	0	100	0.005	0.28	0.000
5/12/2010	6/17/2010	36	864	200,398	30,319	0.6	0.037	119	24	80	0.024	0.30	0.001
6/17/2010	7/26/2010	39	936	226,504	26,106	0.5	0.029	41	0	100	0.009	0.31	0.000
7/26/2010	9/27/2010	63	1512	240,247	13,743	0.2	0.010	84	18	79	0.008	0.32	0.000
9/27/2010	10/18/2010	21	504	255,417	15,170	0.5	0.032	210	6	97	0.026	0.34	0.001
10/18/2010	12/22/2010	65	1560	283,957	28,540	0.3	0.019	173	11	94	0.038	0.38	0.001
12/22/2010	1/20/2011	29	696	328,912	44,955	1.1	0.068	52	0	100	0.019	0.40	0.001
1/20/2011	3/1/2011	40	960	357,774	28,862	0.5	0.032	131	0	100	0.031	0.43	0.001
3/1/2011	3/23/2011	22	528	369,603	11,829	0.4	0.024	43	7	84	0.004	0.43	0.000
3/23/2011	4/22/2011	30	720	461,499	91,896	2.1	0.134	41	0	100	0.032	0.47	0.001
4/22/2011	5/19/2011	27	648	480,836	19,337	0.5	0.031	22	0	100	0.004	0.47	0.000
5/19/2011	6/16/2011	28	672	487,852	7,016	0.2	0.011	43	0	100	0.003	0.47	0.000
6/16/2011	7/25/2011	39	936	606,917	119,065	2.1	0.134	37	0	100	0.037	0.51	0.001
7/25/2011	8/28/2011	34	816	645,249	38,332	0.8	0.049	51	5	90	0.015	0.52	0.000
8/28/2011	9/29/2011	32	768	673,352	28,103	0.6	0.038	45	7	86	0.009	0.53	0.000
9/29/2011	10/27/2011	28	672	694,330	20,978	0.5	0.033	41	0	100	0.007	0.54	0.000
10/27/2011	11/21/2011	25	600	716,049	21,719	0.6	0.038	32	0	100	0.006	0.55	0.000
11/21/2011	1/20/2012	60	1440	725,742	9,693	0.1	0.007	149	45	70	0.008	0.55	0.000
1/20/2012	1/27/2012	7	168	731,337	5,595	0.6	0.035	76	0	100	0.004	0.56	0.001
1/27/2012	2/16/2012	20	480	746,725	15,388	0.5	0.034	52	0	100	0.007	0.56	0.000
2/16/2012	3/16/2012	29	696	757,124	10,399	0.2	0.016	87	0	100	0.007	0.57	0.000
3/16/2012	4/17/2012	32	768	783,562	26,438	0.6	0.036	40	0	100	0.009	0.58	0.000
4/17/2012	5/17/2012	30	720	809,091	25,529	0.6	0.037	23	0	100	0.005	0.58	0.000

Table 5

Mass Removal from Groundwater Treatment System
MN Bio Business Center
221 1st Avenue SW
Rochester, Minnesota

Monitoring Period		Days per Period	Hours per Period	Flow Meter Reading (gallons)	Gallons Treated During Period	Average Flow Rate (gpm)	Average Flow Rate (liter/sec)	Total VOCs		% Reduction	Mass Removed per Period (lbs)	Cumulative Mass Removed (lbs)	Addition to Emission Rate (lbs/day)
Start Date[1]	End Date							Influent Conc. (ug/L)	Effluent Conc. (ug/L)				
5/17/2012	6/14/2012	28	672	830,565	21,474	0.5	0.034	39	3	92	0.006	0.59	0.000
6/14/2012	7/19/2012	35	840	835,414	4,849	0.1	0.006	36	35	2	0.000	0.59	0.000
7/19/2012	8/23/2012	35	840	849,507	14,093	0.3	0.018	46	0	100	0.005	0.60	0.000
8/23/2012	9/26/2012	34	816	860,318	10,811	0.2	0.014	22	2	92	0.002	0.60	0.000
9/26/2012	10/26/2012	30	720	951,486	91,168	2.1	0.133	36	2	95	0.026	0.62	0.001
10/26/2012	12/21/2012	56	1344	951,486	0	0.0	0.000	92	15	84	0.000	0.62	0.000

Notes:

1. The initial reading of the transfer pump totalizer was 68 gallons.
2. Initial sampling event to determine if groundwater treatment was necessary.
3. Increase in total VOCs was from PVC glue and cement that was used during the construction of the DPE system and air stripper.
4. Based on the PCE concentrations in the AS-Influent and AS-Effluent samples, it appears as if the samples were mislabeled or mixed up at the lab. Therefore, the influent and effluent total VOC data in this table has been changed to show the highest total VOC concentration data as the influent data and the lowest total VOC concentration as the effluent data.
5. Increase in total VOCs was from PVC glue and cement that was used during installation of the secondary demister moisture separator.
6. Flow totalizer reading switched from the analog flow meter reading to the field totalizer reading for better accuracy.
7. Discharge flow meter malfunction caused invalid field totalizer reading; therefore, analog flow totalizer was used starting on 4/22/11.
8. Analog flow totalizer reading on 10/27/11 was estimated from field readings from Oct. 27 and Sept 29, 2011.

Flow meter and totalizer now working. The DPE system was off from Oct. 26 through Dec. 21, 2012; therefore, the volume discharged during this period was 0 gallons.

TABLE 6

GROUNDWATER DISCHARGE ANALYTICAL RESULTS
(micrograms per liter)
MN Bio Business Center
221 1st Avenue SW
Rochester, MN

Sample ID	AS-Influent	AS-Effluent	AS-Influent	AS-Effluent	AS-Influent	AS-Effluent	AS-Influent	AS-Effluent
Collected Date	12/21/2012	12/21/2012	10/26/2012	10/26/2012	9/26/2012	9/26/2012	8/23/2012	8/23/2012
1,1,1,2-Tetrachloroethane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1,1-Trichloroethane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1,2,2-Tetrachloroethane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1,2-Trichloroethane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1,2-Trichlorotrifluoroethane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1-Dichloroethane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1-Dichloroethene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1-Dichloropropene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2,3-Trichlorobenzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2,3-Trichloropropane	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
1,2,4-Trichlorobenzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2,4-Trimethylbenzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-Dibromo-3-chloropropane	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
1,2-Dibromoethane (EDB)	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-Dichlorobenzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-Dichloroethane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-Dichloropropane	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
1,3,5-Trimethylbenzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,3-Dichlorobenzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,3-Dichloropropane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,4-Dichlorobenzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
2,2-Dichloropropane	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
2-Butanone (MEK)	**4.5**	**7.4**	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
2-Chloroethylvinyl ether	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
2-Chlorotoluene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
2-Hexanone	NA*	NA*	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
2-Methylnaphthalene	NA*	NA*	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
4-Chlorotoluene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
4-Methyl-2-pentanone (MIBK)	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Acetone	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
Acrolein	NA*	NA*	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
Acrylonitrile	NA*	NA*	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
Allyl chloride	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Benzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Bromobenzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Bromochloromethane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Bromodichloromethane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Bromoform	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Bromomethane	<4.0	<4.0	<4.0	<4.0	<10.0	<10.0	<4.0	<4.0
Carbon disulfide	NA*	NA*	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Carbon tetrachloride	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Chlorobenzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Chloroethane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Chloroform	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Chloromethane	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Chloroprene	NA*	NA*	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
cis-1,2-Dichloroethene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
cis-1,3-Dichloropropene	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Dibromochloromethane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Dibromomethane	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Dichlorodifluoromethane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Dichlorofluoromethane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Diethyl ether (Ethyl ether)	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Ethylbenzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Hexachloro-1,3-butadiene	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Iodomethane	NA*	NA*	<4.0	<4.0	<10.0	<10.0	<4.0	<4.0
Isopropylbenzene (Cumene)	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
m&p-Xylene	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Methylene Chloride	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Methyl-tert-butyl ether	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Naphthalene	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
n-Butylbenzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
n-Propylbenzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
o-Xylene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
p-Isopropyltoluene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
sec-Butylbenzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Styrene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
tert-Butylbenzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Tetrachloroethene	**71.7**	**7.5**	**35.7**	**1.6**	**21.8**	**1.8**	**45.5**	<1.0
Tetrahydrofuran	**15.3**	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
Toluene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
trans-1,2-Dichloroethene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
trans-1,3-Dichloropropene	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Trichloroethene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Trichlorofluoromethane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Vinyl acetate	NA*	NA*	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
Vinyl chloride	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40
Xylene (Total)	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0
Total VOC Concentration	**91.5**	**14.9**	**35.7**	**1.6**	**21.8**	**1.8**	**45.5**	**0**

Bold : Parameter detected above the reporting limit.

Bold : Total VOC Concentration is above discharge limit of 2,140 ug/L.

[1]: Initial sampling event to determine if groundwater treatment was necessary.

[2]: Increase in VOCs was from PVC glue and cement from construction of the DPE system and air stripper.

[3]: Increase in VOCs was from PVC glue and cement from installation of the secondary demister moisture separator.

TABLE 6

GROUNDWATER DISCHARGE ANALYTICAL RESULTS
(micrograms per liter)
MN Bio Business Center
221 1st Avenue SW
Rochester, MN

Sample ID	AS-Influent	AS-Effluent	AS-Influent	AS-Effluent	AS-Influent	AS-Effluent	AS-Influent	AS-Effluent
Collected Date	7/19/2012	7/19/2012	6/14/2012	6/14/2012	5/17/2012	5/17/2012	4/17/2012	4/17/2012
1,1,1,2-Tetrachloroethane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1,1-Trichloroethane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1,2,2-Tetrachloroethane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1,2-Trichloroethane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1,2-Trichlorotrifluoroethane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1-Dichloroethane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1-Dichloroethene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1-Dichloropropene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2,3-Trichlorobenzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2,3-Trichloropropane	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
1,2,4-Trichlorobenzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2,4-Trimethylbenzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-Dibromo-3-chloropropane	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
1,2-Dibromoethane (EDB)	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-Dichlorobenzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-Dichloroethane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-Dichloropropane	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
1,3,5-Trimethylbenzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,3-Dichlorobenzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,3-Dichloropropane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,4-Dichlorobenzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
2,2-Dichloropropane	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
2-Butanone (MEK)	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
2-Chloroethylvinyl ether	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
2-Chlorotoluene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
2-Hexanone	<4.0	<4.0	NA*	NA*	NA*	NA*	<4.0	<4.0
2-Methylnaphthalene	<5.0	<5.0	NA*	NA*	NA*	NA*	<5.0	<5.0
4-Chlorotoluene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
4-Methyl-2-pentanone (MIBK)	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Acetone	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
Acrolein	<10.0	<10.0	NA*	NA*	NA*	NA*	<10.0	<10.0
Acrylonitrile	<10.0	<10.0	NA*	NA*	NA*	NA*	<10.0	<10.0
Allyl chloride	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Benzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Bromobenzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Bromochloromethane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Bromodichloromethane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Bromoform	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Bromomethane	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Carbon disulfide	<1.0	<1.0	NA*	NA*	NA*	NA*	<1.0	<1.0
Carbon tetrachloride	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Chlorobenzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Chloroethane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Chloroform	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Chloromethane	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Chloroprene	<1.0	<1.0	NA*	NA*	NA*	NA*	<1.0	<1.0
cis-1,2-Dichloroethene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
cis-1,3-Dichloropropene	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Dibromochloromethane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Dibromomethane	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Dichlorodifluoromethane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Dichlorofluoromethane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Diethyl ether (Ethyl ether)	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Ethylbenzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Hexachloro-1,3-butadiene	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Iodomethane	<4.0	<4.0	NA*	NA*	NA*	NA*	<4.0	<4.0
Isopropylbenzene (Cumene)	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
m&p-Xylene	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Methylene Chloride	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Methyl-tert-butyl ether	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Naphthalene	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
n-Butylbenzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
n-Propylbenzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
o-Xylene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
p-Isopropyltoluene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
sec-Butylbenzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Styrene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
tert-Butylbenzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Tetrachloroethene	**36.1**	**35.2**	**39.0**	**3.3**	**22.7**	<1.0	**39.6**	<1.0
Tetrahydrofuran	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
Toluene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
trans-1,2-Dichloroethene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
trans-1,3-Dichloropropene	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Trichloroethene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Trichlorofluoromethane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Vinyl acetate	<10.0	<10.0	NA*	NA*	<0.40	<0.40	<10.0	<10.0
Vinyl chloride	<0.40	<0.40	<0.40	<0.40	<3.0	<3.0	<0.40	<0.40
Xylene (Total)	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0
Total VOC Concentration	**36.1**	**35.2**	**39**	**3.3**	**22.7**	**0**	**39.6**	**0**

Bold : Parameter detected above the reporting limit.

Bold : Total VOC Concentration is above discharge limit of 2,140 ug/L.

[1]: Initial sampling event to determine if groundwater treatment was necessary.

[2]: Increase in VOCs was from PVC glue and cement from construction of the DPE system and air stripper.

[3]: Increase in VOCs was from PVC glue and cement from installation of the secondary demister moisture separator.

TABLE 6

GROUNDWATER DISCHARGE ANALYTICAL RESULTS
(micrograms per liter)
MN Bio Business Center
221 1st Avenue SW
Rochester, MN

Sample ID	AS-Influent	AS-Effluent	AS-Influent	AS-Effluent	AS-Influent	AS-Effluent	AS-Influent	AS-Effluent
Collected Date	3/16/2012	3/16/2012	2/16/2012	2/16/2012	1/27/2012	1/27/2012	1/20/2012	1/20/2012
1,1,1,2-Tetrachloroethane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1,1-Trichloroethane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1,2,2-Tetrachloroethane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1,2-Trichloroethane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1,2-Trichlorotrifluoroethane	1.2	<1.0	<1.0	<1.0	<1.0	<1.0	**2.9**	**6.4**
1,1-Dichloroethane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1-Dichloroethene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1-Dichloropropene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2,3-Trichlorobenzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2,3-Trichloropropane	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
1,2,4-Trichlorobenzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2,4-Trimethylbenzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-Dibromo-3-chloropropane	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
1,2-Dibromoethane (EDB)	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-Dichlorobenzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-Dichloroethane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-Dichloropropane	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
1,3,5-Trimethylbenzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,3-Dichlorobenzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,3-Dichloropropane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,4-Dichlorobenzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
2,2-Dichloropropane	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
2-Butanone (MEK)	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	**8.8**	<4.0
2-Chloroethylvinyl ether	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
2-Chlorotoluene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
2-Hexanone	NA	NA	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
2-Methylnaphthalene	NA	NA	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
4-Chlorotoluene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
4-Methyl-2-pentanone (MIBK)	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Acetone	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
Acrolein	NA	NA	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
Acrylonitrile	NA	NA	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
Allyl chloride	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Benzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Bromobenzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Bromochloromethane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Bromodichloromethane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Bromoform	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Bromomethane	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Carbon disulfide	NA	NA	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Carbon tetrachloride	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Chlorobenzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Chloroethane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Chloroform	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Chloromethane	**4**	<4.0	<4.0	<4.0	<4.0	<4.0	**9.4**	**7.8**
Chloroprene	NA	NA	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
cis-1,2-Dichloroethene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
cis-1,3-Dichloropropene	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Dibromochloromethane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Dibromomethane	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Dichlorodifluoromethane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Dichlorofluoromethane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Diethyl ether (Ethyl ether)	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Ethylbenzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Hexachloro-1,3-butadiene	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Iodomethane	NA	NA	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Isopropylbenzene (Cumene)	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
m&p-Xylene	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Methylene Chloride	<4.0	<4.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
Methyl-tert-butyl ether	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Naphthalene	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
n-Butylbenzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
n-Propylbenzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
o-Xylene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
p-Isopropyltoluene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
sec-Butylbenzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Styrene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
tert-Butylbenzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Tetrachloroethene	**86.5**	<1.0	**51.8**	<1.0	**76.3**	<1.0	**149**	**45.1**
Tetrahydrofuran	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
Toluene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
trans-1,2-Dichloroethene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
trans-1,3-Dichloropropene	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Trichloroethene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Trichlorofluoromethane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Vinyl acetate	NA	NA	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
Vinyl chloride	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40
Xylene (Total)	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0
Total VOC Concentration	**91.7**	**0**	**51.8**	**0**	**76.3**	**0**	**149**	**45.1**

Bold : Parameter detected above the reporting limit.

Bold : Total VOC Concentration is above discharge limit of 2,140 ug/L.

[1]: Initial sampling event to determine if groundwater treatment was necessary.

[2]: Increase in VOCs was from PVC glue and cement from construction of the DPE system and air stripper.

[3]: Increase in VOCs was from PVC glue and cement from installation of the secondary demister moisture separator.

TABLE 6

GROUNDWATER DISCHARGE ANALYTICAL RESULTS
(micrograms per liter)
MN Bio Business Center
221 1st Avenue SW
Rochester, MN

Sample ID	AS-Influent	AS-Effluent	AS-Influent	AS-Effluent	AS-Influent	AS-Effluent	AS-Influent	AS-Effluent
Collected Date	11/21/2011	11/21/2011	10/27/2011	10/27/2011	9/29/2011	9/29/2011	8/28/2011	8/28/2011
1,1,1,2-Tetrachloroethane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1,1-Trichloroethane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1,2,2-Tetrachloroethane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1,2-Trichloroethane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1,2-Trichlorotrifluoroethane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1-Dichloroethane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1-Dichloroethene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1-Dichloropropene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2,3-Trichlorobenzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2,3-Trichloropropane	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
1,2,4-Trichlorobenzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2,4-Trimethylbenzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-Dibromo-3-chloropropane	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
1,2-Dibromoethane (EDB)	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-Dichlorobenzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-Dichloroethane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-Dichloropropane	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
1,3,5-Trimethylbenzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,3-Dichlorobenzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,3-Dichloropropane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,4-Dichlorobenzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
2,2-Dichloropropane	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
2-Butanone (MEK)	<4.0	<4.0	<4.0	<4.0	<4.0	**6.5**	<4.0	<4.0
2-Chloroethylvinyl ether	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
2-Chlorotoluene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
2-Hexanone	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
2-Methylnaphthalene	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
4-Chlorotoluene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
4-Methyl-2-pentanone (MIBK)	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Acetone	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
Acrolein	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
Acrylonitrile	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
Allyl chloride	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Benzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Bromobenzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Bromochloromethane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Bromodichloromethane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Bromoform	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Bromomethane	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Carbon disulfide	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Carbon tetrachloride	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Chlorobenzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Chloroethane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Chloroform	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Chloromethane	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	**4.9**
Chloroprene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
cis-1,2-Dichloroethene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
cis-1,3-Dichloropropene	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Dibromochloromethane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Dibromomethane	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Dichlorodifluoromethane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Dichlorofluoromethane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Diethyl ether (Ethyl ether)	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Ethylbenzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Hexachloro-1,3-butadiene	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Iodomethane	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Isopropylbenzene (Cumene)	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
m&p-Xylene	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Methylene Chloride	<10.0	<10.0	<10.0	<10.0	<4.0	<4.0	<4.0	<4.0
Methyl-tert-butyl ether	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Naphthalene	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
n-Butylbenzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
n-Propylbenzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
o-Xylene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
p-Isopropyltoluene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
sec-Butylbenzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Styrene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
tert-Butylbenzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Tetrachloroethene	**31.6**	<1.0	**40.3**	<1.0	**45.1**	<1.0	**50.7**	<1.0
Tetrahydrofuran	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
Toluene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
trans-1,2-Dichloroethene	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
trans-1,3-Dichloropropene	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Trichloroethene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Trichlorofluoromethane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Vinyl acetate	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
Vinyl chloride	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40
Xylene (Total)	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0
Total VOC Concentration	**31.6**	**0**	**40.3**	**0**	**45.1**	**6.5**	**50.7**	**4.9**

Bold : Parameter detected above the reporting limit.

Bold : Total VOC Concentration is above discharge limit of 2,140 ug/L.

[1]: Initial sampling event to determine if groundwater treatment was necessary.

[2]: Increase in VOCs was from PVC glue and cement from construction of the DPE system and air stripper.

[3]: Increase in VOCs was from PVC glue and cement from installation of the secondary demister moisture separator.

TABLE 6

GROUNDWATER DISCHARGE ANALYTICAL RESULTS
(micrograms per liter)
MN Bio Business Center
221 1st Avenue SW
Rochester, MN

Sample ID	AS-Influent	AS-Effluent	AS-Influent	AS-Effluent	AS-Influent	AS-Effluent	AS-Influent	AS-Effluent
Collected Date	7/25/2011	7/25/2011	6/16/2011	6/16/2011	5/19/2011	5/19/2011	4/22/2011	4/22/2011
1,1,1,2-Tetrachloroethane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1,1-Trichloroethane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1,2,2-Tetrachloroethane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1,2-Trichloroethane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1,2-Trichlorotrifluoroethane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1-Dichloroethane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1-Dichloroethene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1-Dichloropropene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2,3-Trichlorobenzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2,3-Trichloropropane	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
1,2,4-Trichlorobenzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2,4-Trimethylbenzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-Dibromo-3-chloropropane	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
1,2-Dibromoethane (EDB)	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-Dichlorobenzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-Dichloroethane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-Dichloropropane	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
1,3,5-Trimethylbenzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,3-Dichlorobenzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,3-Dichloropropane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,4-Dichlorobenzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
2,2-Dichloropropane	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
2-Butanone (MEK)	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
2-Chloroethylvinyl ether	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
2-Chlorotoluene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
2-Hexanone	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
2-Methylnaphthalene	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
4-Chlorotoluene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
4-Methyl-2-pentanone (MIBK)	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Acetone	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
Acrolein	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
Acrylonitrile	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
Allyl chloride	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Benzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Bromobenzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Bromochloromethane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Bromodichloromethane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Bromoform	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Bromomethane	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Carbon disulfide	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Carbon tetrachloride	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Chlorobenzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Chloroethane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Chloroform	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Chloromethane	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Chloroprene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
cis-1,2-Dichloroethene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
cis-1,3-Dichloropropene	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Dibromochloromethane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Dibromomethane	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Dichlorodifluoromethane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Dichlorofluoromethane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Diethyl ether (Ethyl ether)	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Ethylbenzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Hexachloro-1,3-butadiene	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Iodomethane	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Isopropylbenzene (Cumene)	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
m&p-Xylene	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Methylene Chloride	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Methyl-tert-butyl ether	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Naphthalene	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
n-Butylbenzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
n-Propylbenzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
o-Xylene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
p-Isopropyltoluene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
sec-Butylbenzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Styrene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
tert-Butylbenzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Tetrachloroethene	**37.0**	<1.0	**42.8**	<1.0	**21.8**	<1.0	**41.3**	<1.0
Tetrahydrofuran	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
Toluene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
trans-1,2-Dichloroethene	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
trans-1,3-Dichloropropene	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Trichloroethene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Trichlorofluoromethane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Vinyl acetate	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
Vinyl chloride	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40
Xylene (Total)	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0
Total VOC Concentration	**37**	**0**	**42.8**	**0**	**21.8**	**0**	**41.3**	**0**

Bold : Parameter detected above the reporting limit.

Bold : Total VOC Concentration is above discharge limit of 2,140 ug/L.

[1]: Initial sampling event to determine if groundwater treatment was necessary.

[2]: Increase in VOCs was from PVC glue and cement from construction of the DPE system and air stripper.

[3]: Increase in VOCs was from PVC glue and cement from installation of the secondary demister moisture separator.

TABLE 6

GROUNDWATER DISCHARGE ANALYTICAL RESULTS
(micrograms per liter)
MN Bio Business Center
221 1st Avenue SW
Rochester, MN

Sample ID	AS-Influent	AS-Effluent	AS-Influent	AS-Effluent	AS-Influent	AS-Effluent	AS-Influent	AS-Effluent
Collected Date	3/23/2011	3/23/2011	3/1/2011	3/1/2011	1/20/2011	1/20/2011	12/23/2010	12/23/2010
1,1,1,2-Tetrachloroethane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1,1-Trichloroethane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1,2,2-Tetrachloroethane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1,2-Trichloroethane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1,2-Trichlorotrifluoroethane	<1.0	<1.0	**2.3**	<1.0	<1.0	<1.0	**3.0**	<1.0
1,1-Dichloroethane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1-Dichloroethene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1-Dichloropropene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2,3-Trichlorobenzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2,3-Trichloropropane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2,4-Trichlorobenzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2,4-Trimethylbenzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-Dibromo-3-chloropropane	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
1,2-Dibromoethane (EDB)	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-Dichlorobenzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-Dichloroethane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-Dichloropropane	<4.0	<4.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,3,5-Trimethylbenzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,3-Dichlorobenzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,3-Dichloropropane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,4-Dichlorobenzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
2,2-Dichloropropane	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
2-Butanone (MEK)	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
2-Chloroethylvinyl ether	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
2-Chlorotoluene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
2-Hexanone	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
2-Methylnaphthalene	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
4-Chlorotoluene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
4-Methyl-2-pentanone (MIBK)	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Acetone	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<10.0	**11.1**
Acrolein	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
Acrylonitrile	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
Allyl chloride	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Benzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Bromobenzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Bromochloromethane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Bromodichloromethane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Bromoform	<4.0	<4.0	<8.0	<8.0	<8.0	<8.0	<8.0	<8.0
Bromomethane	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Carbon disulfide	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Carbon tetrachloride	<1.0	<1.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Chlorobenzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Chloroethane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Chloroform	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Chloromethane	**35.0**	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Chloroprene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
cis-1,2-Dichloroethene	<1.0	<1.0	**1.3**	<1.0	<1.0	<1.0	**1.8**	<1.0
cis-1,3-Dichloropropene	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Dibromochloromethane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Dibromomethane	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Dichlorodifluoromethane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Dichlorofluoromethane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Diethyl ether (Ethyl ether)	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Ethylbenzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Hexachloro-1,3-butadiene	<5.0	<5.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Iodomethane	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Isopropylbenzene (Cumene)	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
m&p-Xylene	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Methylene Chloride	<4.0	**6.8**	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Methyl-tert-butyl ether	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Naphthalene	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
n-Butylbenzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
n-Propylbenzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
o-Xylene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
p-Isopropyltoluene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
sec-Butylbenzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Styrene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
tert-Butylbenzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Tetrachloroethene	**7.6**	<1.0	**127**	<1.0	**51.8**	<1.0	**168**	<1.0
Tetrahydrofuran	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
Toluene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
trans-1,2-Dichloroethene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
trans-1,3-Dichloropropene	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Trichloroethene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Trichlorofluoromethane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Vinyl acetate	<10.0	<10.0	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0
Vinyl chloride	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40
Xylene (Total)	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0
Total VOC Concentration	**42.6**	**6.8**	**130.6**	**0**	**51.8**	**0**	**172.8**	**11.1**

Bold : Parameter detected above the reporting limit.

Bold : Total VOC Concentration is above discharge limit of 2,140 ug/L.

[1]: Initial sampling event to determine if groundwater treatment was necessary.

[2]: Increase in VOCs was from PVC glue and cement from construction of the DPE system and air stripper.

[3]: Increase in VOCs was from PVC glue and cement from installation of the secondary demister moisture separator.

TABLE 6

GROUNDWATER DISCHARGE ANALYTICAL RESULTS
(micrograms per liter)
MN Bio Business Center
221 1st Avenue SW
Rochester, MN

Sample ID	AS-Influent	AS-Effluent	AS-Influent	AS-Effluent	AS-Influent	AS-Effluent	AS-Influent	AS-Effluent
Collected Date	10/19/2010	10/19/2010	7/26/2010	7/26/2010	6/17/2010	6/17/2010	5/12/2010	5/12/2010
1,1,1,2-Tetrachloroethane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1,1-Trichloroethane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1,2,2-Tetrachloroethane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1,2-Trichloroethane	<1.0	<1.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
1,1,2-Trichlorotrifluoroethane	**1.9**	<1.0	<1.0	<1.0	**2.6**	<1.0	**2.5**	<1.0
1,1-Dichloroethane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1-Dichloroethene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1-Dichloropropene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2,3-Trichlorobenzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2,3-Trichloropropane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2,4-Trichlorobenzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2,4-Trimethylbenzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-Dibromo-3-chloropropane	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
1,2-Dibromoethane (EDB)	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-Dichlorobenzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-Dichloroethane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-Dichloropropane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,3,5-Trimethylbenzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,3-Dichlorobenzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,3-Dichloropropane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,4-Dichlorobenzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
2,2-Dichloropropane	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
2-Butanone (MEK)	**4.5**	**5.6**	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
2-Chloroethylvinyl ether	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
2-Chlorotoluene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
2-Hexanone	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
2-Methylnaphthalene	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
4-Chlorotoluene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
4-Methyl-2-pentanone (MIBK)	<4.0	<4.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Acetone	<10.0	<10.0	<10.0	<10.0	<10.0	**13.3**	<10.0	<10.0
Acrolein	<10.0	<10.0	<40.0	<40.0	<40.0	<40.0	<40.0	<40.0
Acrylonitrile	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
Allyl chloride	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Benzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Bromobenzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Bromochloromethane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Bromodichloromethane	<1.0	<1.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Bromoform	<8.0	<8.0	<8.0	<8.0	<8.0	<8.0	<8.0	<8.0
Bromomethane	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Carbon disulfide	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Carbon tetrachloride	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Chlorobenzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Chloroethane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Chloroform	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Chloromethane	<4.0	<4.0	<4.0	<4.0	**7.2**	**8.7**	<4.0	<4.0
Chloroprene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
cis-1,2-Dichloroethene	<1.0	<1.0	<1.0	<1.0	**1.5**	<1.0	<1.0	<1.0
cis-1,3-Dichloropropene	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Dibromochloromethane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Dibromomethane	<4.0	<4.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Dichlorodifluoromethane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Dichlorofluoromethane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Diethyl ether (Ethyl ether)	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Ethylbenzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Hexachloro-1,3-butadiene	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Iodomethane	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Isopropylbenzene (Cumene)	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
m&p-Xylene	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Methylene Chloride	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Methyl-tert-butyl ether	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Naphthalene	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
n-Butylbenzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
n-Propylbenzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
o-Xylene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
p-Isopropyltoluene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
sec-Butylbenzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Styrene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
tert-Butylbenzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Tetrachloroethene	**204**	<1.0	<1.0	**40.6**	**108**	**2.4**	**63.4**	<1.0
Tetrahydrofuran	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
Toluene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
trans-1,2-Dichloroethene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
trans-1,3-Dichloropropene	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Trichloroethene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Trichlorofluoromethane	<1.0	<1.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Vinyl acetate	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0
Vinyl chloride	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40
Xylene (Total)	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0
Total VOC Concentration	**210.4**	**5.6**	**0**	**40.6**	**119.3**	**15.7**	**65.9**	**0**

Bold : Parameter detected above the reporting limit.

Bold : Total VOC Concentration is above discharge limit of 2,140 ug/L.

[1]: Initial sampling event to determine if groundwater treatment was necessary.

[2]: Increase in VOCs was from PVC glue and cement from construction of the DPE system and air stripper.

[3]: Increase in VOCs was from PVC glue and cement from installation of the secondary demister moisture separator.

TABLE 6

GROUNDWATER DISCHARGE ANALYTICAL RESULTS
(micrograms per liter)
MN Bio Business Center
221 1st Avenue SW
Rochester, MN

Sample ID	AS-Influent	AS-Effluent[3]	AS-Influent	AS-Effluent[3]	AS-Influent	AS-Effluent	AS-Influent	AS-Effluent	AS-Influent
Collected Date	4/16/2010	4/16/2010	3/25/2010	3/25/2010	2/22/2010	2/22/2010	1/14/2010	1/14/2010	12/17/2009
1,1,1,2-Tetrachloroethane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1,1-Trichloroethane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1,2,2-Tetrachloroethane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1,2-Trichloroethane	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
1,1,2-Trichlorotrifluoroethane	**1.4**	<1.0	**1.0**	<1.0	**2.1**	<1.0	**1.3**	<1.0	<1.0
1,1-Dichloroethane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1-Dichloroethene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1-Dichloropropene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2,3-Trichlorobenzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2,3-Trichloropropane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2,4-Trichlorobenzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2,4-Trimethylbenzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-Dibromo-3-chloropropane	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
1,2-Dibromoethane (EDB)	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-Dichlorobenzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-Dichloroethane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-Dichloropropane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,3,5-Trimethylbenzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,3-Dichlorobenzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,3-Dichloropropane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,4-Dichlorobenzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
2,2-Dichloropropane	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<1.0	<1.0	<1.0
2-Butanone (MEK)	<4.0	**4.9**	**4.9**	**7.5**	<4.0	<4.0	**7.0**	<4.0	<4.0
2-Chloroethylvinyl ether	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<25.0	<25.0	<25.0
2-Chlorotoluene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
2-Hexanone	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
2-Methylnaphthalene	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
4-Chlorotoluene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
4-Methyl-2-pentanone (MIBK)	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Acetone	<10.0	**29.3**	**11.2**	**29.8**	<10.0	<10.0	**14.6**	<10.0	<10.0
Acrolein	<40.0	<40.0	<40.0	<40.0	<40.0	<40.0	<40.0	<40.0	<40.0
Acrylonitrile	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
Allyl chloride	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Benzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Bromobenzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Bromochloromethane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Bromodichloromethane	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Bromoform	<8.0	<8.0	<8.0	<8.0	<8.0	<8.0	<8.0	<8.0	<8.0
Bromomethane	<4.0	<4.0	**37.3**	**38.0**	<4.0	<4.0	<4.0	<4.0	<4.0
Carbon disulfide	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Carbon tetrachloride	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<1.0	<1.0	<1.0
Chlorobenzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Chloroethane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Chloroform	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Chloromethane	**10.7**	**491**	**380**	**644**	<4.0	<4.0	**98.5**	**31.9**	<1.0
Chloroprene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
cis-1,2-Dichloroethene	<1.0	<1.0	<1.0	<1.0	**1.3**	<1.0	**1.0**	<1.0	<1.0
cis-1,3-Dichloropropene	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Dibromochloromethane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Dibromomethane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Dichlorodifluoromethane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Dichlorofluoromethane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Diethyl ether (Ethyl ether)	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Ethylbenzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Hexachloro-1,3-butadiene	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Iodomethane	<4.0	<4.0	**17.3**	**18.9**	<4.0	<4.0	<4.0	<4.0	<4.0
Isopropylbenzene (Cumene)	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
m&p-Xylene	<2.0	<2.0	<2.0	**3.4**	<2.0	<2.0	<2.0	<2.0	<2.0
Methylene Chloride	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Methyl-tert-butyl ether	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Naphthalene	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
n-Butylbenzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
n-Propylbenzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
o-Xylene	<1.0	<1.0	<1.0	**1.6**	<1.0	<1.0	<1.0	<1.0	<1.0
p-Isopropyltoluene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
sec-Butylbenzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Styrene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
tert-Butylbenzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Tetrachloroethene	**48.6**	<1.0	**55.5**	<1.0	**69.6**	<1.0	**157**	<1.0	<1.0
Tetrahydrofuran	<10.0	<10.0	<10.0	**20.3**	<10.0	**15.7**	**29.4**	<10.0	**11.7**
Toluene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
trans-1,2-Dichloroethene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
trans-1,3-Dichloropropene	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Trichloroethene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Trichlorofluoromethane	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Vinyl acetate	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0
Vinyl chloride	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40
Xylene (Total)	<3.0	<3.0	<3.0	**4.9**	<3.0	<3.0	<3.0	<3.0	<3.0
Total VOC Concentration	**60.7**	**525.2**	**507.2**	**763.5**	**73**	**15.7**	**308.8**	**31.9**	**11.7**

Bold : Parameter detected above the reporting limit.

Bold : Total VOC Concentration is above discharge limit of 2,140 ug/L.

[1]: Initial sampling event to determine if groundwater treatment was necessary.

[2]: Increase in VOCs was from PVC glue and cement from construction of the DPE system and air stripper.

[3]: Increase in VOCs was from PVC glue and cement from installation of the secondary demister moisture separator.

TABLE 6

GROUNDWATER DISCHARGE ANALYTICAL RESULTS
(micrograms per liter)
MN Bio Business Center
221 1st Avenue SW
Rochester, MN

Sample ID	AS-IN Vial 2	AS-Effluent	AS-INFLUENT	AS-EFFLUENT	AS-Influent	AS-Effluent	AS-Influent	AS-Effluent
Collected Date	12/17/2009	12/17/2009	11/16/2009	11/16/2009	10/15/2009	10/15/2009	9/4/2009	9/4/2009
1,1,1,2-Tetrachloroethane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1,1-Trichloroethane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1,2,2-Tetrachloroethane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1,2-Trichloroethane	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
1,1,2-Trichlorotrifluoroethane	<1.0	<1.0	<1.0	<1.0	**1.4**	<1.0	**1.2**	<1.0
1,1-Dichloroethane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1-Dichloroethene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1-Dichloropropene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2,3-Trichlorobenzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2,3-Trichloropropane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2,4-Trichlorobenzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2,4-Trimethylbenzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-Dibromo-3-chloropropane	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
1,2-Dibromoethane (EDB)	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-Dichlorobenzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-Dichloroethane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-Dichloropropane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,3,5-Trimethylbenzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,3-Dichlorobenzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,3-Dichloropropane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,4-Dichlorobenzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
2,2-Dichloropropane	<1.0	<1.0	<4.0	<4.0	<4.0	<4.0	<1.0	<1.0
2-Butanone (MEK)	<4.0	<4.0	<4.0	<4.0	**5.4**	<4.0	**13.5**	**19.8**
2-Chloroethylvinyl ether	<25.0	<25.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
2-Chlorotoluene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
2-Hexanone	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
2-Methylnaphthalene	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
4-Chlorotoluene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
4-Methyl-2-pentanone (MIBK)	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Acetone	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
Acrolein	<40.0	<40.0	<40.0	<40.0	<40.0	<40.0	<40.0	<40.0
Acrylonitrile	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
Allyl chloride	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Benzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Bromobenzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Bromochloromethane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Bromodichloromethane	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Bromoform	<8.0	<8.0	<8.0	<8.0	<8.0	<8.0	<8.0	<8.0
Bromomethane	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Carbon disulfide	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Carbon tetrachloride	<1.0	<1.0	<4.0	<4.0	<4.0	<4.0	<1.0	<1.0
Chlorobenzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Chloroethane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Chloroform	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Chloromethane	<1.0	**1.3**	<4.0	<4.0	<1.0	<1.0	<1.0	<1.0
Chloroprene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
cis-1,2-Dichloroethene	<1.0	<1.0	<1.0	<1.0	**1.5**	<1.0	**1.5**	<1.0
cis-1,3-Dichloropropene	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Dibromochloromethane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Dibromomethane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Dichlorodifluoromethane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Dichlorofluoromethane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Diethyl ether (Ethyl ether)	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Ethylbenzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Hexachloro-1,3-butadiene	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Iodomethane	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Isopropylbenzene (Cumene)	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
m&p-Xylene	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Methylene Chloride	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Methyl-tert-butyl ether	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Naphthalene	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
n-Butylbenzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
n-Propylbenzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
o-Xylene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
p-Isopropyltoluene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
sec-Butylbenzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Styrene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
tert-Butylbenzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Tetrachloroethene	<1.0	**22.7**	**30.7**	<1.0	**214**	<1.0	**175**	<1.0
Tetrahydrofuran	**11.5**	<10.0	<10.0	<10.0	**15.7**	<10.0	<10.0	<10.0
Toluene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
trans-1,2-Dichloroethene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
trans-1,3-Dichloropropene	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Trichloroethene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Trichlorofluoromethane	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Vinyl acetate	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0
Vinyl chloride	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40
Xylene (Total)	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0
Total VOC Concentration	**11.5**	**24**	**30.7**	**0**	**238**	**0**	**191.2**	**19.8**

Bold : Parameter detected above the reporting limit.

Bold : Total VOC Concentration is above discharge limit of 2,140 ug/L.

[1]: Initial sampling event to determine if groundwater treatment was necessary.

[2]: Increase in VOCs was from PVC glue and cement from construction of the DPE system and air stripper.

[3]: Increase in VOCs was from PVC glue and cement from installation of the secondary demister moisture separator.

TABLE 7

GROUNDWATER ELEVATIONS
MN Bio Business Center
221 First Avenue SW
Rochester, Minnesota

Well ID	Date Measured	Top of Casing Elevation[1,2]	Depth to Groundwater (feet)	Groundwater Elevation[3]	System Status
MW-14	12/3/2008	989.50	10.82	978.68	pre-system installation
MW-14	6/8/2009	989.50	12.40	977.10	pre-system startup
MW-14	7/9/2009	989.50	12.90	976.60	DPE system on DPE-1
MW-14	7/9/2009	989.50	12.51	976.99	DPE system temporarily off
MW-14	9/4/2009	989.50	12.63	976.87	DPE system on
MW-14	9/4/2009	989.50	12.57	976.93	DPE system on after replacing inlet screen
MW-14	9/4/2009	989.50	12.65	976.85	DPE system on after replacing inlet filter
MW-14	10/15/2009	989.50	12.47	977.03	DPE system on DPE-1
MW-14	10/23/2009	989.50	11.33	978.17	DPE system off
MW-14	11/16/2009	989.50	11.87	977.63	DPE System on all wells
MW-14	12/17/2009	989.50	11.66	977.84	DPE System on all wells
MW-14	1/14/2010	989.50	12.14	977.36	DPE System on all wells
MW-14	2/22/2010	989.50	12.51	976.99	DPE System on all wells
MW-14	3/25/2010	989.50	11.90	977.60	DPE System on all wells
MW-14	4/16/2010	989.50	12.21	977.29	DPE System on all wells
MW-14	5/12/2010	989.50	12.68	976.82	DPE System on all wells
MW-14	6/17/2010	989.50	13.01	976.49	DPE System on all wells
MW-14	8/18/2010	989.50	13.28	976.22	DPE System on all wells
MW-14	9/27/2010	989.50	10.85	978.65	DPE System on all wells
MW-14	11/18/2010	989.50	11.16	978.34	DPE System not operating
MW-14	12/22/2010	989.50	11.56	977.94	DPE System restarted
MW-14	1/6/2011	989.50	10.82	978.68	DPE System on all wells
MW-14	1/20/2011	989.50	11.18	978.32	DPE System on all wells
MW-14	2/28/2011	989.50	11.18	978.32	DPE System on all wells
MW-14	3/7/2011	989.50	11.60	977.90	DPE System on all wells
MW-14	3/18/2011	989.50	11.47	978.03	DPE System on all wells
MW-14	3/23/2011	989.50	10.84	978.66	DPE System on all wells
MW-14	4/22/2011	989.50	12.70	976.80	DPE System on all wells
MW-14	5/19/2011	989.50	10.96	978.54	DPE System on all wells
MW-14	6/16/2011	989.50	11.13	978.37	DPE System on all wells
MW-14	7/25/2011	989.50	10.72	978.78	DPE System on all wells
MW-14	8/28/2011	989.50	12.11	977.39	DPE System on all wells
MW-14	9/29/2011	989.50	12.26	977.24	DPE-1,2,3,4
MW-14	10/18/2011	989.50	11.18	978.32	DPE-1,2,3,4
MW-14	10/27/2011	989.50	12.30	977.20	DPE-1,2,3,4
MW-14	11/21/2011	989.50	12.77	976.73	DPE-1,2,3,4
MW-14	1/20/2012	989.50	12.29	977.21	DPE-1,2,3,4
MW-14	1/27/2012	989.50	13.06	976.44	DPE-1,2,3,4
MW-14	2/16/2012	989.50	13.14	976.36	DPE-1,2,3,4
MW-14	3/16/2012	989.50	13.56	975.94	DPE-1,2,3,4
MW-14	3/27/2012	989.50	12.46	977.04	DPE-1,2,3,4
MW-14	4/17/2012	989.50	13.00	976.50	DPE-1,2,3,4
MW-14	5/17/2012	989.50	12.88	976.62	DPE-1,2,3,4
MW-14	5/31/2012	989.50	12.64	976.86	DPE-1,2,3,4
MW-14	6/14/2012	989.50	13.35	976.15	DPE-1,2,3,4
MW-14	7/19/2012	989.50	13.80	975.70	DPE-3
MW-14	8/23/2012	989.50	13.20	976.30	DPE-3
MW-14	9/26/2012	989.50	13.47	976.03	DPE-3
MW-14	10/26/2012	989.50	13.43	976.07	DPE-3
MW-14	12/19/2012	989.50	12.53	976.97	DPE-3; Before restarting the system
MW-14	12/21/2012	989.50	13.29	976.21	DPE-3; After restarting the system

TABLE 7

GROUNDWATER ELEVATIONS
MN Bio Business Center
221 First Avenue SW
Rochester, Minnesota

Well ID	Date Measured	Top of Casing Elevation[1,2]	Depth to Groundwater (feet)	Groundwater Elevation[3]	System Status
MW-15	12/3/2008	991.50	13.11	978.39	pre-system installation
MW-15	6/8/2009	991.50	15.58	975.92	pre-system startup
MW-15	7/9/2009	991.50	15.94	975.56	DPE system on DPE-1
MW-15	7/9/2009	991.50	16.51	974.99	DPE system temporarily off
MW-15	9/4/2009	991.50	15.73	975.77	DPE system on
MW-15	9/4/2009	991.50	15.90	975.60	DPE system on after replacing inlet screen
MW-15	9/4/2009	991.50	16.01	975.49	DPE system on after replacing inlet filter
MW-15	10/15/2009	991.50	15.38	976.12	DPE system on DPE-1
MW-15	10/23/2009	991.50	14.14	977.36	DPE system off
MW-15	11/16/2009	991.50	13.78	977.72	DPE System on all wells
MW-15	12/17/2009	991.50	14.25	977.25	DPE System on all wells
MW-15	1/14/2010	991.50	14.33	977.17	DPE System on all wells
MW-15	2/22/2010	991.50	15.72	975.78	DPE System on all wells
MW-15	3/25/2010	991.50	14.57	976.93	DPE System on all wells
MW-15	4/16/2010	991.50	14.72	976.78	DPE System on all wells
MW-15	5/12/2010	991.50	15.44	976.06	DPE System on all wells
MW-15	6/17/2010	991.50	16.28	975.22	DPE System on all wells
MW-15	8/18/2010	991.50	16.24	975.26	DPE System on all wells
MW-15	9/27/2010	991.50	13.68	977.82	DPE System on all wells
MW-15	11/18/2010	991.50	13.79	977.71	DPE System not operating
MW-15	12/22/2010	991.50	14.03	977.47	DPE System restarted
MW-15	1/6/2011	991.50	13.53	977.97	DPE System on all wells
MW-15	1/20/2011	991.50	13.55	977.95	DPE System on all wells
MW-15	2/28/2011	991.50	13.71	977.79	DPE System on all wells
MW-15	3/7/2011	991.50	14.01	977.49	DPE System on all wells
MW-15	3/18/2011	991.50	14.08	977.42	DPE System on all wells
MW-15	3/23/2011	991.50	12.79	978.71	DPE System on all wells
MW-15	4/22/2011	991.50	13.40	978.10	DPE System on all wells
MW-15	5/19/2011	991.50	13.38	978.12	DPE System on all wells
MW-15	6/16/2011	991.50	13.62	977.88	DPE System on all wells
MW-15	7/25/2011	991.50	13.08	978.42	DPE System on all wells
MW-15	8/28/2011	991.50	14.76	976.74	DPE System on all wells
MW-15	9/29/2011	991.50	15.28	976.22	DPE-1,2,3,4
MW-15	10/18/2011	991.50	13.79	977.71	DPE-1,2,3,4
MW-15	10/27/2011	991.50	15.56	975.94	DPE-1,2,3,4
MW-15	11/21/2011	991.50	15.89	975.61	DPE-1,2,3,4
MW-15	1/20/2012	991.50	14.92	976.58	DPE-1,2,3,4
MW-15	1/27/2012	991.50	15.91	975.59	DPE-1,2,3,4
MW-15	2/16/2012	991.50	15.78	975.72	DPE-1,2,3,4
MW-15	3/16/2012	991.50	15.81	975.69	DPE-1,2,3,4
MW-15	3/27/2012	991.50	15.19	976.31	DPE-1,2,3,4
MW-15	4/17/2012	991.50	15.49	976.01	DPE-1,2,3,4
MW-15	5/17/2012	991.50	15.90	975.60	DPE-1,2,3,4
MW-15	5/31/2012	991.50	15.26	976.24	DPE-1,2,3,4
MW-15	6/14/2012	991.50	15.93	975.57	DPE-1,2,3,4
MW-15	7/19/2012	991.50	16.63	974.87	DPE-3
MW-15	8/23/2012	991.50	16.04	975.46	DPE-3
MW-15	9/26/2012	991.50	16.32	975.18	DPE-3
MW-15	10/26/2012	991.50	16.26	975.24	DPE-3
MW-15	12/19/2012	991.50	15.14	976.36	DPE-3; Before restarting the system
MW-15	12/21/2012	991.50	16.42	975.08	DPE-3; After restarting the system

TABLE 7

GROUNDWATER ELEVATIONS
MN Bio Business Center
221 First Avenue SW
Rochester, Minnesota

Well ID	Date Measured	Top of Casing Elevation[1,2]	Depth to Groundwater (feet)	Groundwater Elevation[3]	System Status
MW-16	12/3/2008	989.44	12.32	977.12	pre-system installation
MW-16	6/8/2009	989.44	14.82	974.62	pre-system startup
MW-16	7/9/2009	989.44	14.23	975.21	DPE system on DPE-1
MW-16	7/9/2009	989.44	13.19	976.25	DPE system temporarily off
MW-16	9/4/2009	989.44	13.70	975.74	DPE system on
MW-16	9/4/2009	989.44	14.25	975.19	DPE system on after replacing inlet screen
MW-16	9/4/2009	989.44	14.58	974.86	DPE system on after replacing inlet filter
MW-16	10/15/2009	989.44	13.61	975.83	DPE system on DPE-1
MW-16	10/23/2009	989.44	11.89	977.55	DPE system off
MW-16	11/16/2009	989.44	11.44	978.00	DPE System on all wells
MW-16	12/17/2009	989.44	14.17	975.27	DPE System on all wells
MW-16	1/14/2010	989.44	12.57	976.87	DPE System on all wells
MW-16	2/22/2010	989.44	13.68	975.76	DPE System on all wells
MW-16	3/25/2010	989.44	12.50	976.94	DPE System on all wells
MW-16	4/16/2010	989.44	12.72	976.72	DPE System on all wells
MW-16	5/12/2010	989.44	13.41	976.03	DPE System on all wells
MW-16	6/17/2010	989.44	13.96	975.48	DPE System on all wells
MW-16	8/18/2010	989.44	13.91	975.53	DPE System on all wells
MW-16	9/27/2010	989.44	11.37	978.07	DPE System on all wells
MW-16	11/18/2010	989.44	11.61	977.83	DPE System not operating
MW-16	12/22/2010	989.44	12.63	976.81	DPE System restarted
MW-16	1/6/2011	989.44	11.30	978.14	DPE System on all wells
MW-16	1/20/2011	989.44	11.91	977.53	DPE System on all wells
MW-16	2/28/2011	989.44	11.77	977.67	DPE System on all wells
MW-16	3/7/2011	989.44	12.27	977.17	DPE System on all wells
MW-16	3/18/2011	989.44	12.38	977.06	DPE System on all wells
MW-16	3/23/2011	989.44	11.13	978.31	DPE System on all wells
MW-16	4/22/2011	989.44	11.92	977.52	DPE System on all wells
MW-16	5/19/2011	989.44	11.88	977.56	DPE System on all wells
MW-16	6/16/2011	989.44	11.97	977.47	DPE System on all wells
MW-16	7/25/2011	989.44	11.31	978.13	DPE System on all wells
MW-16	8/28/2011	989.44	12.59	976.85	DPE System on all wells
MW-16	9/29/2011	989.44	13.09	976.35	DPE-1,2,3,4
MW-16	10/18/2011	989.44	11.59	977.85	DPE-1,2,3,4
MW-16	10/27/2011	989.44	12.88	976.56	DPE-1,2,3,4
MW-16	11/21/2011	989.44	13.68	975.76	DPE-1,2,3,4
MW-16	1/20/212	989.44	12.73	976.71	DPE-1,2,3,4
MW-16	1/27/2012	989.44	13.88	975.56	DPE-1,2,3,4
MW-16	2/16/2012	989.44	13.99	975.45	DPE-1,2,3,4
MW-16	3/16/2012	989.44	14.14	975.30	DPE-1,2,3,4
MW-16	3/27/2012	989.44	13.34	976.10	DPE-1,2,3,4
MW-16	4/17/2012	989.44	13.88	975.56	DPE-1,2,3,4
MW-16	5/17/2012	989.44	13.80	975.64	DPE-1,2,3,4
MW-16	5/31/2012	989.44	13.26	976.18	DPE-1,2,3,4
MW-16	6/14/2012	989.44	14.21	975.23	DPE-1,2,3,4
MW-16	7/19/2012	989.44	14.51	974.93	DPE-3
MW-16	8/23/2012	989.44	13.99	975.45	DPE-3
MW-16	9/26/2012	989.44	14.32	975.12	DPE-3
MW-16	10/26/2012	989.44	14.16	975.28	DPE-3
MW-16	12/19/2012	989.44	13.02	976.42	DPE-3; Before restarting the system
MW-16	12/21/2012	989.44	14.12	975.32	DPE-3; After restarting the system

TABLE 7

GROUNDWATER ELEVATIONS
MN Bio Business Center
221 First Avenue SW
Rochester, Minnesota

Well ID	Date Measured	Top of Casing Elevation[1,2]	Depth to Groundwater (feet)	Groundwater Elevation[3]	System Status
MW-17	12/3/2008	989.53	12.81	976.72	pre-system installation
MW-17	6/8/2009	989.53	13.69	975.84	pre-system startup
MW-17	7/9/2009	989.53	14.44	975.09	DPE system on DPE-1
MW-17	7/9/2009	989.53	14.35	975.18	DPE system temporarily off
MW-17	9/4/2009	989.53	14.31	975.22	DPE system on
MW-17	9/4/2009	989.53	14.33	975.20	DPE system on after replacing inlet screen
MW-17	9/4/2009	989.53	14.39	975.14	DPE system on after replacing inlet filter
MW-17	10/15/2009	989.53	14.00	975.53	DPE system on DPE-1
MW-17	10/23/2009	989.53	13.13	976.40	DPE system off
MW-17	11/16/2009	989.53	12.76	976.77	DPE System on all wells
MW-17	12/17/2009	989.53	13.04	976.49	DPE System on all wells
MW-17	1/14/2010	989.53	13.22	976.31	DPE System on all wells
MW-17	2/22/2010	989.53	14.37	975.16	DPE System on all wells
MW-17	3/25/2010	989.53	12.78	976.75	DPE System on all wells
MW-17	4/16/2010	989.53	13.19	976.34	DPE System on all wells
MW-17	5/12/2010	989.53	13.84	975.69	DPE System on all wells
MW-17	6/17/2010	989.53	14.13	975.40	DPE System on all wells
MW-17	8/18/2010	989.53	15.08	974.45	DPE System on all wells
MW-17	9/27/2010	989.53	12.68	976.85	DPE System on all wells
MW-17	11/18/2010	989.53	12.68	976.85	DPE System not operating
MW-17	12/22/2010	989.53	12.50	977.03	DPE System restarted
MW-17	1/6/2011	989.53	12.17	977.36	DPE System on all wells
MW-17	1/20/2011	989.53	12.25	977.28	DPE System on all wells
MW-17	2/28/2011	989.53	12.20	977.33	DPE System on all wells
MW-17	3/7/2011	989.53	12.41	977.12	DPE System on all wells
MW-17	3/18/2011	989.53	12.44	977.09	DPE System on all wells
MW-17	3/23/2011	989.53	11.41	978.12	DPE System on all wells
MW-17	4/22/2011	989.53	11.64	977.89	DPE System on all wells
MW-17	5/19/2011	989.53	11.96	977.57	DPE System on all wells
MW-17	6/16/2011	989.53	12.21	977.32	DPE System on all wells
MW-17	7/25/2011	989.53	12.02	977.51	DPE System on all wells
MW-17	8/28/2011	989.53	13.41	976.12	DPE System on all wells
MW-17	9/29/2011	989.53	13.04	976.49	DPE-1,2,3,4
MW-17	10/18/2011	989.53	12.66	976.87	DPE-1,2,3,4
MW-17	10/27/2011	989.53	13.08	976.45	DPE-1,2,3,4
MW-17	11/21/2011	989.53	13.48	976.05	DPE-1,2,3,4
MW-17	1/20/2012	989.53	13.72	975.81	DPE-1,2,3,4
MW-17	1/27/2012	989.53	13.99	975.54	DPE-1,2,3,4
MW-17	2/16/2012	989.53	14.04	975.49	DPE-1,2,3,4
MW-17	3/16/2012	989.53	14.11	975.42	DPE-1,2,3,4
MW-17	3/27/2012	989.53	13.59	975.94	DPE-1,2,3,4
MW-17	4/17/2012	989.53	13.83	975.70	DPE-1,2,3,4
MW-17	5/17/2012	989.53	13.91	975.62	DPE-1,2,3,4
MW-17	5/31/2012	989.53	13.99	975.54	DPE-1,2,3,4
MW-17	6/14/2012	989.53	14.48	975.05	DPE-1,2,3,4
MW-17	7/19/2012	989.53	15.29	974.24	DPE-3
MW-17	8/23/2012	989.53	14.68	974.85	DPE-3
MW-17	9/26/2012	989.53	14.88	974.65	DPE-3
MW-17	10/26/2012	989.53	14.68	974.85	DPE-3
MW-17	12/19/2012	989.53	13.86	975.67	DPE-3; Before restarting the system
MW-17	12/21/2012	989.53	14.21	975.32	DPE-3; After restarting the system

TABLE 7

GROUNDWATER ELEVATIONS
MN Bio Business Center
221 First Avenue SW
Rochester, Minnesota

Well ID	Date Measured	Top of Casing Elevation[1,2]	Depth to Groundwater (feet)	Groundwater Elevation[3]	System Status
MW-18	12/3/2008	989.50	13.82	975.68	pre-system installation
MW-18	6/8/2009	989.50	14.22	975.28	pre-system startup
MW-18	7/9/2009	989.50	16.61	972.89	DPE system on DPE-1
MW-18	7/9/2009	989.50	15.61	973.89	DPE system temporarily off
MW-18	9/4/2009	989.50	15.37	974.13	DPE system on
MW-18	9/4/2009	989.50	15.38	974.12	DPE system on after replacing inlet screen
MW-18	9/4/2009	989.50	15.40	974.10	DPE system on after replacing inlet filter
MW-18	10/15/2009	989.50	15.18	974.32	DPE system on DPE-1
MW-18	10/23/2009	989.50	14.28	975.22	DPE system off
MW-18	11/16/2009	989.50	13.83	975.67	DPE System on all wells
MW-18	12/17/2009	989.50	13.85	975.65	DPE System on all wells
MW-18	1/14/2010	989.50	13.96	975.54	DPE System on all wells
MW-18	2/22/2010	989.50	15.49	974.01	DPE System on all wells
MW-18	3/25/2010	989.50	13.24	976.26	DPE System on all wells
MW-18	4/16/2010	989.50	13.83	975.67	DPE System on all wells
MW-18	5/12/2010	989.50	14.60	974.90	DPE System on all wells
MW-18	6/17/2010	989.50	15.14	974.36	DPE System on all wells
MW-18	8/18/2010	989.50	16.53	972.97	DPE System on all wells
MW-18	9/27/2010	989.50	13.79	975.71	DPE System on all wells
MW-18	11/18/2010	989.50	13.54	975.96	DPE System not operating
MW-18	12/22/2010	989.50	13.20	976.30	DPE System restarted
MW-18	1/6/2011	989.50	13.03	976.47	DPE System on all wells
MW-18	1/20/2011	989.50	12.88	976.62	DPE System on all wells
MW-18	2/28/2011	989.50	12.79	976.71	DPE System on all wells
MW-18	3/7/2011	989.50	13.21	976.29	DPE System on all wells
MW-18	3/18/2011	989.50	12.99	976.51	DPE System on all wells
MW-18	3/23/2011	989.50	12.08	977.42	DPE System on all wells
MW-18	4/22/2011	989.50	12.27	977.23	DPE System on all wells
MW-18	5/19/2011	989.50	12.80	976.70	DPE System on all wells
MW-18	6/16/2011	989.50	13.19	976.31	DPE System on all wells
MW-18	7/25/2011	989.50	13.00	976.50	DPE System on all wells
MW-18	8/28/2011	989.50	14.52	974.98	DPE System on all wells
MW-18	9/29/2011	989.50	13.67	975.83	DPE-1,2,3,4
MW-18	10/18/2011	989.50	13.44	976.06	DPE-1,2,3,4
MW-18	10/27/2011	989.50	13.56	975.94	DPE-1,2,3,4
MW-18	11/21/2011	989.50	13.88	975.62	DPE-1,2,3,4
MW-18	1/20/2012	989.50	14.42	975.08	DPE-1,2,3,4
MW-18	1/27/2012	989.50	14.53	974.97	DPE-1,2,3,4
MW-18	2/16/2012	989.50	14.63	974.87	DPE-1,2,3,4
MW-18	3/16/2012	989.50	14.71	974.79	DPE-1,2,3,4
MW-18	3/27/2012	989.50	14.22	975.28	DPE-1,2,3,4
MW-18	4/17/2012	989.50	14.26	975.24	DPE-1,2,3,4
MW-18	5/17/2012	989.50	14.88	974.62	DPE-1,2,3,4
MW-18	5/31/2012	989.50	14.96	974.54	DPE-1,2,3,4
MW-18	6/14/2012	989.50	15.47	974.03	DPE-1,2,3,4
MW-18	7/19/2012	989.50	16.70	972.80	DPE-3
MW-18	8/23/2012	989.50	16.02	973.48	DPE-3
MW-18	9/26/2012	989.50	16.06	973.44	DPE-3
MW-18	10/26/2012	989.50	15.82	973.68	DPE-3
MW-18	12/19/2012	989.50	14.53	974.97	DPE-3; Before restarting the system
MW-18	12/21/2012	989.50	14.80	974.70	DPE-3; After restarting the system

TABLE 7

GROUNDWATER ELEVATIONS
MN Bio Business Center
221 First Avenue SW
Rochester, Minnesota

Well ID	Date Measured	Top of Casing Elevation[1,2]	Depth to Groundwater (feet)	Groundwater Elevation[3]	System Status
MW-19	12/3/2008	991.13	12.45	978.68	pre-system installation
MW-19	6/8/2009	991.13	13.40	977.73	pre-system startup
MW-19	7/9/2009	991.13	14.75	976.38	DPE system on DPE-1
MW-19	7/9/2009	991.13	14.58	976.55	DPE system temporarily off
MW-19	9/4/2009	991.13	14.68	976.45	DPE system on
MW-19	9/4/2009	991.13	14.61	976.52	DPE system on after replacing inlet screen
MW-19	9/4/2009	991.13	14.66	976.47	DPE system on after replacing inlet filter
MW-19	10/15/2009	991.13	14.47	976.66	DPE system on DPE-1
MW-19	10/23/2009	991.13	13.28	977.85	DPE system off
MW-19	11/16/2009	991.13	12.85	978.28	DPE System on all wells
MW-19	12/17/2009	991.13	13.69	977.44	DPE System on all wells
MW-19	1/14/2010	991.13	13.78	977.35	DPE System on all wells
MW-19	2/22/2010	991.13	14.62	976.51	DPE System on all wells
MW-19	3/25/2010	991.13	13.81	977.32	DPE System on all wells
MW-19	4/16/2010	991.13	14.21	976.92	DPE System on all wells
MW-19	5/12/2010	991.13	14.84	976.29	DPE System on all wells
MW-19	6/17/2010	991.13	15.01	976.12	DPE System on all wells
MW-19	8/18/2010	991.13	15.71	975.42	DPE System on all wells
MW-19	9/27/2010	991.13	12.94	978.19	DPE System on all wells
MW-19	11/18/2010	991.13	13.26	977.87	DPE System not operating
MW-19	12/22/2010	991.13	13.69	977.44	DPE System restarted
MW-19	1/6/2011	991.13	13.06	978.07	DPE System on all wells
MW-19	1/20/2011	991.13	13.41	977.72	DPE System on all wells
MW-19	2/28/2011	991.13	13.92	977.21	DPE System on all wells
MW-19	3/7/2011	991.13	13.18	977.95	DPE System on all wells
MW-19	3/18/2011	991.13	13.56	977.57	DPE System on all wells
MW-19	3/23/2011	991.13	12.09	979.04	DPE System on all wells
MW-19	4/22/2011	991.13	12.42	978.71	DPE System on all wells
MW-19	5/19/2011	991.13	12.84	978.29	DPE System on all wells
MW-19	6/16/2011	991.13	13.05	978.08	DPE System on all wells
MW-19	7/25/2011	991.13	12.42	978.71	DPE System on all wells
MW-19	8/28/2011	991.13	14.29	976.84	DPE System on all wells
MW-19	9/29/2011	991.13	14.05	977.08	DPE-1,2,3,4
MW-19	10/18/2011	991.13	13.33	977.80	DPE-1,2,3,4
MW-19	10/27/2011	991.13	14.32	976.81	DPE-1,2,3,4
MW-19	11/21/2011	991.13	14.74	976.39	DPE-1,2,3,4
MW-19	1/20/2012	991.13	14.76	976.37	DPE-1,2,3,4
MW-19	1/27/2012	991.13	15.43	975.70	DPE-1,2,3,4
MW-19	2/16/2012	991.13	15.46	975.67	DPE-1,2,3,4
MW-19	3/16/2012	991.13	15.59	975.54	DPE-1,2,3,4
MW-19	3/27/2012	991.13	14.60	976.53	DPE-1,2,3,4
MW-19	4/17/2012	991.13	15.37	975.76	DPE-1,2,3,4
MW-19	5/17/2012	991.13	15.03	976.10	DPE-1,2,3,4
MW-19	5/31/2012	991.13	14.79	976.34	DPE-1,2,3,4
MW-19	6/14/2012	991.13	15.56	975.57	DPE-1,2,3,4
MW-19	7/19/2012	991.13	16.06	975.07	DPE-3
MW-19	8/23/2012	991.13	15.38	975.75	DPE-3
MW-19	9/26/2012	991.13	15.77	975.36	DPE-3
MW-19	10/26/2012	991.13	15.89	975.24	DPE-3
MW-19	12/19/2012	991.13	14.91	976.22	DPE-3; Before restarting the system
MW-19	12/21/2012	991.13	15.32	975.81	DPE-3; After restarting the system

TABLE 7

GROUNDWATER ELEVATIONS
MN Bio Business Center
221 First Avenue SW
Rochester, Minnesota

Well ID	Date Measured	Top of Casing Elevation[1,2]	Depth to Groundwater (feet)	Groundwater Elevation[3]	System Status
MW-20	12/3/2008	991.50	12.40	979.10	pre-system installation
MW-20	6/8/2009	991.50	11.93	979.57	pre-system startup
MW-20	7/9/2009	991.50	12.19	979.31	DPE system on DPE-1
MW-20	7/9/2009	991.50	12.24	979.26	DPE system temporarily off
MW-20	9/4/2009	991.50	12.53	978.97	DPE system on
MW-20	9/4/2009	991.50	12.47	979.03	DPE system on after replacing inlet screen
MW-20	9/4/2009	991.50	12.49	979.01	DPE system on after replacing inlet filter
MW-20	10/15/2009	991.50	12.16	979.34	DPE system on DPE-1
MW-20	10/23/2009	991.50	11.33	980.17	DPE system off
MW-20	11/16/2009	991.50	11.02	980.48	DPE System on all wells
MW-20	12/17/2009	991.50	12.31	979.19	DPE System on all wells
MW-20	1/14/2010	991.50	12.34	979.16	DPE System on all wells
MW-20	2/22/2010	991.50	12.78	978.72	DPE System on all wells
MW-20	3/25/2010	991.50	12.54	978.96	DPE System on all wells
MW-20	4/16/2010	991.50	12.76	978.74	DPE System on all wells
MW-20	5/12/2010	991.50	13.18	978.32	DPE System on all wells
MW-20	6/17/2010	991.50	12.99	978.51	DPE System on all wells
MW-20	8/18/2010	991.50	12.71	978.79	DPE System on all wells
MW-20	9/27/2010	991.50	10.17	981.33	DPE System on all wells
MW-20	11/18/2010	991.50	11.68	979.82	DPE System not operating
MW-20	12/22/2010	991.50	12.15	979.35	DPE System restarted
MW-20	1/6/2011	991.50	11.99	979.51	DPE System on all wells
MW-20	1/20/2011	991.50	12.45	979.05	DPE System on all wells
MW-20	2/28/2011	991.50	12.69	978.81	DPE System on all wells
MW-20	3/7/2011	991.50	12.26	979.24	DPE System on all wells
MW-20	3/18/2011	991.50	12.62	978.88	DPE System on all wells
MW-20	3/23/2011	991.50	11.19	980.31	DPE System on all wells
MW-20	4/22/2011	991.50	11.22	980.28	DPE System on all wells
MW-20	5/19/2011	991.50	11.26	980.24	DPE System on all wells
MW-20	6/16/2011	991.50	11.69	979.81	DPE System on all wells
MW-20	7/25/2011	991.50	10.13	981.37	DPE System on all wells
MW-20	8/28/2011	991.50	12.32	979.18	DPE System on all wells
MW-20	9/29/2011	991.50	12.48	979.02	DPE-1,2,3,4
MW-20	10/18/2011	991.50	12.31	979.19	DPE-1,2,3,4
MW-20	10/27/2011	991.50	12.98	978.52	DPE-1,2,3,4
MW-20	11/21/2011	991.50	13.46	978.04	DPE-1,2,3,4
MW-20	1/20/2012	991.50	13.71	977.79	DPE-1,2,3,4
MW-20	1/27/2012	991.50	13.96	977.54	DPE-1,2,3,4
MW-20	2/16/2012	991.50	14.08	977.42	DPE-1,2,3,4
MW-20	3/16/2012	991.50	14.20	977.30	DPE-1,2,3,4
MW-20	3/27/2012	991.50	13.64	977.86	DPE-1,2,3,4
MW-20	4/17/2012	991.50	14.03	977.47	DPE-1,2,3,4
MW-20	5/17/2012	991.50	13.59	977.91	DPE-1,2,3,4
MW-20	5/31/2012	991.50	13.38	978.12	DPE-1,2,3,4
MW-20	6/14/2012	991.50	13.81	977.69	DPE-1,2,3,4
MW-20	7/19/2012	991.50	13.71	977.79	DPE-3
MW-20	8/23/2012	991.50	13.13	978.37	DPE-3
MW-20	9/26/2012	991.50	13.88	977.62	DPE-3
MW-20	10/26/2012	991.50	14.09	977.41	DPE-3
MW-20	12/19/2012	991.50	13.79	977.71	DPE-3; Before restarting the system
MW-20	12/21/2012	991.50	13.84	977.66	DPE-3; After restarting the system

TABLE 7

GROUNDWATER ELEVATIONS
MN Bio Business Center
221 First Avenue SW
Rochester, Minnesota

Well ID	Date Measured	Top of Casing Elevation[1,2]	Depth to Groundwater (feet)	Groundwater Elevation[3]	System Status
DPE-1	12/3/2008	991.46	13.66	977.80	pre-system installation
DPE-1	6/8/2009	992.40	18.78	973.62	pre-system startup
DPE-1	7/9/2009	992.40	20.51	971.89	DPE system on DPE-1
DPE-1	7/9/2009	992.40	16.38	976.02	DPE system temporarily off
DPE-1	9/4/2009	992.40	NR	NR	DPE system on DPE-1
DPE-1	9/4/2009	992.40	NR	NR	DPE-1 on after replacing inlet screen
DPE-1	9/4/2009	992.40	17.86	974.54	DPE-1 on after replacing inlet filter
DPE-1	10/15/2009	992.40	NR	NR	DPE system on DPE-1
DPE-1	10/23/2009	992.40	14.88	977.52	DPE system off
DPE-1	11/16/2009	992.40	14.45	977.95	DPE System on all wells
DPE-1	12/17/2009	992.40	15.13	977.27	DPE System on all wells
DPE-1	1/14/2010	992.40	15.53	976.87	DPE System on all wells
DPE-1	2/22/2010	992.40	12.22	980.18	DPE System on all wells
DPE-1	3/25/2010	992.40	15.72	976.68	DPE System on all wells
DPE-1	4/16/2010	992.40	15.88	976.52	DPE System on all wells
DPE-1	5/12/2010	992.40	16.48	975.92	DPE System on all wells
DPE-1	6/17/2010	992.40	16.62	975.78	DPE System on all wells
DPE-1	8/18/2010	992.40	16.80	975.60	DPE System on all wells
DPE-1	9/27/2010	992.40	14.60	977.80	DPE System on all wells
DPE-1	11/18/2010	992.40	14.99	977.41	DPE System not operating
DPE-1	12/22/2010	992.40	15.72	976.68	DPE System restarted
DPE-1	1/6/2011	992.40	14.04	978.36	DPE System on all wells
DPE-1	1/20/2011	992.40	16.80	975.60	DPE System on all wells
DPE-1	2/28/2011	992.40	15.33	977.07	DPE System on all wells
DPE-1	3/7/2011	992.40	17.27	975.13	DPE System on all wells
DPE-1	3/18/2011	992.40	17.80	974.60	DPE System on all wells
DPE-1	3/23/2011	992.40	15.92	976.48	DPE System on all wells
DPE-1	4/22/2011	992.40	16.61	975.79	DPE System on all wells
DPE-1	5/19/2011	992.40	14.59	977.81	DPE System on all wells
DPE-1	6/16/2011	992.40	15.12	977.28	DPE System on all wells
DPE-1	7/25/2011	992.40	14.35	978.05	DPE System on all wells
DPE-1	8/28/2011	992.40	13.04	979.36	DPE System on all wells. Appears to be a data outlier.
DPE-1	9/29/2011	992.40	15.89	976.51	DPE-1,2,3,4
DPE-1	10/18/2011	992.40	14.89	977.51	DPE-1,2,3,4
DPE-1	10/27/2011	992.40	16.65	975.75	DPE-1,2,3,4
DPE-1	11/21/2011	992.40	17.40	975.00	DPE-1,2,3,4
DPE-1	1/20/2012	992.40	15.39	977.01	DPE-1,2,3,4
DPE-1	1/27/2012	992.40	17.19	975.21	DPE-1,2,3,4
DPE-1	2/16/2012	992.40	18.28	974.12	DPE-1,2,3,4
DPE-1	3/16/2012	992.40	19.30	973.10	DPE-1,2,3,4
DPE-1	3/27/2012	992.40	17.95	974.45	DPE-1,2,3,4
DPE-1	4/17/2012	992.40	16.67	975.73	DPE-1,2,3,4
DPE-1	5/17/2012	992.40	16.93	975.47	DPE-1,2,3,4
DPE-1	5/31/2012	992.40	15.79	976.61	DPE-1,2,3,4
DPE-1	6/14/2012	992.40	17.05	975.35	DPE-1,2,3,4
DPE-1	7/19/2012	992.40	17.54	974.86	DPE-3
DPE-1	8/23/2012	992.40	16.68	975.72	DPE-3
DPE-1	9/26/2012	992.40	16.41	975.99	DPE-3
DPE-1	10/26/2012	992.40	16.75	975.65	DPE-3
DPE-1	12/19/2012	992.40	15.84	976.56	DPE-3; Before restarting the system
DPE-1	12/21/2012	992.40	21.82	970.58	DPE-3; After restarting the system

TABLE 7

GROUNDWATER ELEVATIONS
MN Bio Business Center
221 First Avenue SW
Rochester, Minnesota

Well ID	Date Measured	Top of Casing Elevation[1,2]	Depth to Groundwater (feet)	Groundwater Elevation[3]	System Status
DPE-2	12/3/2008	991.46	13.60	977.86	pre-system installation
DPE-2	6/8/2009	992.80	17.45	975.35	pre-system startup
DPE-2	7/9/2009	992.80	17.61	975.19	DPE system on DPE-1
DPE-2	7/9/2009	992.80	16.83	975.97	DPE system temporarily off
DPE-2	9/4/2009	992.80	17.18	975.62	DPE system on DPE-1
DPE-2	9/4/2009	992.80	17.26	975.54	DPE-1 on after replacing inlet screen
DPE-2	9/4/2009	992.80	17.54	975.26	DPE-1 on after replacing inlet filter
DPE-2	10/15/2009	992.80	16.96	975.84	DPE system on DPE-1
DPE-2	10/23/2009	992.80	15.53	977.27	DPE system off
DPE-2	11/16/2009	992.80	15.19	977.61	DPE System on all wells
DPE-2	12/17/2009	992.80	15.69	977.11	DPE System on all wells
DPE-2	1/14/2010	992.80	16.04	976.76	DPE System on all wells
DPE-2	2/22/2010	992.80	14.19	978.61	DPE System on all wells
DPE-2	3/25/2010	992.80	15.50	977.30	DPE System on all wells
DPE-2	4/16/2010	992.80	16.31	976.49	DPE System on all wells
DPE-2	5/12/2010	992.80	16.31	976.49	DPE System on all wells
DPE-2	6/17/2010	992.80	17.09	975.71	DPE System on all wells
DPE-2	8/18/2010	992.80	17.58	975.22	DPE System on all wells
DPE-2	9/27/2010	992.80	14.92	977.88	DPE System on all wells
DPE-2	11/18/2010	992.80	14.79	978.01	DPE System not operating
DPE-2	12/22/2010	992.80	15.72	977.08	DPE System restarted
DPE-2	1/6/2011	992.80	14.42	978.38	DPE System on all wells
DPE-2	1/20/2011	992.80	14.98	977.82	DPE System on all wells
DPE-2	2/28/2011	992.80	14.88	977.92	DPE System on all wells
DPE-2	3/7/2011	992.80	15.22	977.58	DPE System on all wells
DPE-2	3/18/2011	992.80	15.41	977.39	DPE System on all wells
DPE-2	3/23/2011	992.80	13.62	979.18	DPE System on all wells
DPE-2	4/22/2011	992.80	14.51	978.29	DPE System on all wells
DPE-2	5/19/2011	992.80	14.78	978.02	DPE System on all wells
DPE-2	6/16/2011	992.80	15.00	977.80	DPE System on all wells
DPE-2	7/25/2011	992.80	14.83	977.97	DPE System on all wells
DPE-2	8/28/2011	992.80	17.81	974.99	DPE System on all wells
DPE-2	9/29/2011	992.80	15.78	977.02	DPE-1,2,3,4
DPE-2	10/18/2011	992.80	14.78	978.02	DPE-1,2,3,4
DPE-2	10/27/2011	992.80	15.94	976.86	DPE-1,2,3,4
DPE-2	11/21/2011	992.80	16.49	976.31	DPE-1,2,3,4
DPE-2	1/20/2012	992.80	15.94	976.86	DPE-1,2,3,4
DPE-2	1/27/2012	992.80	16.98	975.82	DPE-1,2,3,4
DPE-2	2/16/2012	992.80	17.06	975.74	DPE-1,2,3,4
DPE-2	3/16/2012	992.80	17.04	975.76	DPE-1,2,3,4
DPE-2	3/27/2012	992.80	16.29	976.51	DPE-1,2,3,4
DPE-2	4/17/2012	992.80	16.76	976.04	DPE-1,2,3,4
DPE-2	5/17/2012	992.80	16.63	976.17	DPE-1,2,3,4
DPE-2	5/31/2012	992.80	16.34	976.46	DPE-1,2,3,4
DPE-2	6/14/2012	992.80	17.10	975.70	DPE-1,2,3,4
DPE-2	7/19/2012	992.80	17.79	975.01	DPE-3
DPE-2	8/23/2012	992.80	16.90	975.90	DPE-3
DPE-2	9/26/2012	992.80	16.99	975.81	DPE-3
DPE-2	10/26/2012	992.80	17.01	975.79	DPE-3
DPE-2	12/19/2012	992.80	16.13	976.67	DPE-3; Before restarting the system
DPE-2	12/21/2012	992.80	18.80	974.00	DPE-3; After restarting the system

TABLE 7

GROUNDWATER ELEVATIONS
MN Bio Business Center
221 First Avenue SW
Rochester, Minnesota

Well ID	Date Measured	Top of Casing Elevation[1,2]	Depth to Groundwater (feet)	Groundwater Elevation[3]	System Status
DPE-3	12/3/2008	991.50	10.30	981.20	pre-system installation
DPE-3	6/8/2009	992.48	13.64	978.84	pre-system startup
DPE-3	7/9/2009	992.48	13.98	978.50	DPE system on DPE-1
DPE-3	7/9/2009	992.48	14.06	978.42	DPE system temporarily off
DPE-3	9/4/2009	992.48	14.48	978.00	DPE system on DPE-1
DPE-3	9/4/2009	992.48	14.49	977.99	DPE-1 on after replacing inlet screen
DPE-3	9/4/2009	992.48	14.50	977.98	DPE-1 on after replacing inlet filter
DPE-3	10/15/2009	992.48	14.87	977.61	DPE system on DPE-1
DPE-3	10/23/2009	992.48	14.76	977.72	DPE system off
DPE-3	11/16/2009	992.48	14.59	977.89	DPE System on all wells
DPE-3	12/17/2009	992.48	15.28	977.20	DPE System on all wells
DPE-3	1/14/2010	992.48	16.52	975.96	DPE System on all wells
DPE-3	2/22/2010	992.48	15.29	977.19	DPE System on all wells
DPE-3	3/25/2010	992.48	15.68	976.80	DPE System on all wells
DPE-3	4/16/2010	992.48	15.80	976.68	DPE System on all wells
DPE-3	5/12/2010	992.48	16.26	976.22	DPE System on all wells
DPE-3	6/17/2010	992.48	16.43	976.05	DPE System on all wells
DPE-3	8/18/2010	992.48	17.20	975.28	DPE System on all wells
DPE-3	9/27/2010	992.48	14.29	978.19	DPE System on all wells
DPE-3	11/18/2010	992.48	14.62	977.86	DPE System not operating
DPE-3	12/22/2010	992.48	15.62	976.86	DPE System restarted
DPE-3	1/6/2011	992.48	14.50	977.98	DPE System on all wells
DPE-3	1/20/2011	992.48	14.99	977.49	DPE System on all wells
DPE-3	2/28/2011	992.48	15.22	977.26	DPE System on all wells
DPE-3	3/7/2011	992.48	15.20	977.28	DPE System on all wells
DPE-3	3/18/2011	992.48	15.57	976.91	DPE System on all wells
DPE-3	3/23/2011	992.48	13.88	978.60	DPE System on all wells
DPE-3	4/22/2011	992.48	14.51	977.97	DPE System on all wells
DPE-3	5/19/2011	992.48	14.96	977.52	DPE System on all wells
DPE-3	6/16/2011	992.48	15.83	976.65	DPE System on all wells
DPE-3	7/25/2011	992.48	14.11	978.37	DPE System on all wells
DPE-3	8/28/2011	992.48	15.88	976.60	DPE System on all wells
DPE-3	9/29/2011	992.48	16.56	975.92	DPE-1,2,3,4
DPE-3	10/18/2011	992.48	14.89	977.59	DPE-1,2,3,4
DPE-3	10/27/2011	992.48	16.82	975.66	DPE-1,2,3,4
DPE-3	11/21/2011	992.48	16.51	975.97	DPE-1,2,3,4
DPE-3	1/20/2012	992.48	16.15	976.33	DPE-1,2,3,4
DPE-3	1/27/2012	992.48	17.60	974.88	DPE-1,2,3,4
DPE-3	2/16/2012	992.48	17.90	974.58	DPE-1,2,3,4
DPE-3	3/16/2012	992.48	17.51	974.97	DPE-1,2,3,4
DPE-3	3/27/2012	992.48	16.38	976.10	DPE-1,2,3,4
DPE-3	4/17/2012	992.48	17.28	975.20	DPE-1,2,3,4
DPE-3	5/17/2012	992.48	17.08	975.40	DPE-1,2,3,4
DPE-3	5/31/2012	992.48	16.82	975.66	DPE-1,2,3,4
DPE-3	6/14/2012	992.48	17.42	975.06	DPE-1,2,3,4
DPE-3	7/19/2012	992.48	16.61	975.87	DPE-3
DPE-3	8/23/2012	992.48	17.20	975.28	DPE-3
DPE-3	9/26/2012	992.48	17.02	975.46	DPE-3
DPE-3	10/26/2012	992.48	17.29	975.19	DPE-3
DPE-3	12/19/2012	992.48	16.36	976.12	DPE-3; Before restarting the system
DPE-3	12/21/2012	992.48	17.56	974.92	DPE-3; After restarting the system

TABLE 7

GROUNDWATER ELEVATIONS
MN Bio Business Center
221 First Avenue SW
Rochester, Minnesota

Well ID	Date Measured	Top of Casing Elevation[1,2]	Depth to Groundwater (feet)	Groundwater Elevation[3]	System Status
DPE-4	12/3/2008	991.39	14.20	977.19	pre-system installation
DPE-4	6/8/2009	992.40	15.30	977.10	pre-system startup
DPE-4	7/9/2009	992.40	16.95	975.45	DPE system on DPE-1
DPE-4	7/9/2009	992.40	16.08	976.32	DPE system temporarily off
DPE-4	9/4/2009	992.40	15.94	976.46	DPE system on DPE-1
DPE-4	9/4/2009	992.40	15.91	976.49	DPE-1 on after replacing inlet screen
DPE-4	9/4/2009	992.40	15.99	976.41	DPE-1 on after replacing inlet filter
DPE-4	10/15/2009	992.40	15.83	976.57	DPE system on DPE-1
DPE-4	10/23/2009	992.40	14.81	977.59	DPE system off
DPE-4	11/16/2009	992.40	14.48	977.92	DPE System on all wells
DPE-4	12/17/2009	992.40	15.44	976.96	DPE System on all wells
DPE-4	1/14/2010	992.40	16.08	976.32	DPE System on all wells
DPE-4	2/22/2010	992.40	16.08	976.32	DPE System on all wells
DPE-4	3/25/2010	992.40	16.22	976.18	DPE System on all wells
DPE-4	4/16/2010	992.40	16.21	976.19	DPE System on all wells
DPE-4	5/12/2010	992.40	16.86	975.54	DPE System on all wells
DPE-4	6/17/2010	992.40	16.83	975.57	DPE System on all wells
DPE-4	8/18/2010	992.40	16.74	975.66	DPE System on all wells
DPE-4	9/27/2010	992.40	14.74	977.66	DPE System on all wells
DPE-4	11/18/2010	992.40	14.93	977.47	DPE System not operating
DPE-4	12/22/2010	992.40	14.89	977.51	DPE System restarted
DPE-4	1/6/2011	992.40	14.61	977.79	DPE System on all wells
DPE-4	1/20/2011	992.40	15.15	977.25	DPE System on all wells
DPE-4	2/28/2011	992.40	15.30	977.10	DPE System on all wells
DPE-4	3/7/2011	992.40	15.62	976.78	DPE System on all wells
DPE-4	3/18/2011	992.40	15.62	976.78	DPE System on all wells
DPE-4	3/23/2011	992.40	14.04	978.36	DPE System on all wells
DPE-4	4/22/2011	992.40	14.64	977.76	DPE System on all wells
DPE-4	5/19/2011	992.40	15.80	976.60	DPE System on all wells
DPE-4	6/16/2011	992.40	15.02	977.38	DPE System on all wells
DPE-4	7/25/2011	992.40	14.49	977.91	DPE System on all wells
DPE-4	8/28/2011	992.40	16.58	975.82	DPE System on all wells
DPE-4	9/29/2011	992.40	16.42	975.98	DPE-1,2,3,4
DPE-4	10/18/2011	992.40	14.98	977.42	DPE-1,2,3,4
DPE-4	10/27/2011	992.40	16.64	975.76	DPE-1,2,3,4
DPE-4	11/21/2011	992.40	17.11	975.29	DPE-1,2,3,4
DPE-4	1/20/2012	992.40	16.08	976.32	DPE-1,2,3,4
DPE-4	1/27/2012	992.40	17.49	974.91	DPE-1,2,3,4
DPE-4	2/16/2012	992.40	17.76	974.64	DPE-1,2,3,4
DPE-4	3/16/2012	992.40	17.70	974.70	DPE-1,2,3,4
DPE-4	3/27/2012	992.40	16.29	976.11	DPE-1,2,3,4
DPE-4	4/17/2012	992.40	17.61	974.79	DPE-1,2,3,4
DPE-4	5/17/2012	992.40	18.44	973.96	DPE-1,2,3,4
DPE-4	5/31/2012	992.40	17.71	974.69	DPE-1,2,3,4
DPE-4	6/14/2012	992.40	18.41	973.99	DPE-1,2,3,4
DPE-4	7/19/2012	992.40	18.08	974.32	DPE-3
DPE-4	8/23/2012	992.40	17.12	975.28	DPE-3
DPE-4	9/26/2012	992.40	17.14	975.26	DPE-3
DPE-4	10/26/2012	992.40	17.24	975.16	DPE-3
DPE-4	12/19/2012	992.40	16.38	976.02	DPE-3; Before restarting the system
DPE-4	12/21/2012	992.40	17.54	974.86	DPE-3; After restarting the system

TABLE 7

GROUNDWATER ELEVATIONS
MN Bio Business Center
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Rochester, Minnesota

Well ID	Date Measured	Top of Casing Elevation[1,2]	Depth to Groundwater (feet)	Groundwater Elevation[3]	System Status
DPE-5	12/3/2008	991.47	12.44	979.03	pre-system installation
DPE-5	6/8/2009	992.46	14.48	977.98	pre-system startup
DPE-5	7/9/2009	992.46	16.28	976.18	DPE system on DPE-1
DPE-5	7/9/2009	992.46	15.31	977.15	DPE system temporarily off
DPE-5	9/4/2009	992.46	15.08	977.38	DPE system on DPE-1
DPE-5	9/4/2009	992.46	15.04	977.42	DPE-1 on after replacing inlet screen
DPE-5	9/4/2009	992.46	15.03	977.43	DPE-1 on after replacing inlet filter
DPE-5	10/15/2009	992.46	14.99	977.47	DPE system on DPE-1
DPE-5	10/23/2009	992.46	13.78	978.68	DPE system off
DPE-5	11/16/2009	992.46	13.43	979.03	DPE System on all wells
DPE-5	12/17/2009	992.46	NR	NR	DPE System on all wells
DPE-5	1/14/2010	992.46	15.00	977.46	DPE System on all wells
DPE-5	2/22/2010	992.46	15.01	977.45	DPE System on all wells
DPE-5	3/25/2010	992.46	16.42	976.04	DPE System on all wells
DPE-5	4/16/2010	992.46	15.54	976.92	DPE System on all wells
DPE-5	5/12/2010	992.46	15.98	976.48	DPE System on all wells
DPE-5	6/17/2010	992.46	17.21	975.25	DPE System on all wells
DPE-5	8/18/2010	992.46	16.55	975.91	DPE System on all wells
DPE-5	9/27/2010	992.46	13.73	978.73	DPE System on all wells
DPE-5	11/18/2010	992.46	14.19	978.27	DPE System not operating
DPE-5	12/22/2010	992.46	15.41	977.05	DPE System restarted
DPE-5	1/6/2011	992.46	14.14	978.32	DPE System on all wells
DPE-5	1/20/2011	992.46	15.38	977.08	DPE System on all wells
DPE-5	2/28/2011	992.46	15.38	977.08	DPE System on all wells
DPE-5	3/7/2011	992.46	16.81	975.65	DPE System on all wells
DPE-5	3/18/2011	992.46	15.03	977.43	DPE System on all wells
DPE-5	3/23/2011	992.46	13.08	979.38	DPE System on all wells
DPE-5	4/22/2011	992.46	16.26	976.20	DPE System on all wells
DPE-5	5/19/2011	992.46	14.32	978.14	DPE System on all wells
DPE-5	6/16/2011	992.46	14.73	977.73	DPE System on all wells
DPE-5	7/25/2011	992.46	13.59	978.87	DPE System on all wells
DPE-5	8/28/2011	992.46	16.28	976.18	DPE System on all wells
DPE-5	9/29/2011	992.46	15.35	977.11	DPE-1,2,3,4
DPE-5	10/18/2011	992.46	14.24	978.22	DPE-1,2,3,4
DPE-5	10/27/2011	992.46	16.46	976.00	DPE-1,2,3,4
DPE-5	11/21/2011	992.46	17.18	975.28	DPE-1,2,3,4
DPE-5	1/20/2012	992.46	15.39	977.07	DPE-1,2,3,4
DPE-5	1/27/2012	992.46	16.44	976.02	DPE-1,2,3,4
DPE-5	2/16/2012	992.46	17.42	975.04	DPE-1,2,3,4
DPE-5	3/16/2012	992.46	17.41	975.05	DPE-1,2,3,4
DPE-5	3/27/2012	992.46	15.62	976.84	DPE-1,2,3,4
DPE-5	4/17/2012	992.46	17.08	975.38	DPE-1,2,3,4
DPE-5	5/17/2012	992.46	16.65	975.81	DPE-1,2,3,4
DPE-5	5/31/2012	992.46	15.58	976.88	DPE-1,2,3,4
DPE-5	6/14/2012	992.46	16.95	975.51	DPE-1,2,3,4
DPE-5	7/19/2012	992.46	17.22	975.24	DPE-3
DPE-5	8/23/2012	992.46	16.22	976.24	DPE-3
DPE-5	9/26/2012	992.46	16.31	976.15	DPE-3
DPE-5	10/26/2012	992.46	16.41	976.05	DPE-3
DPE-5	12/19/2012	992.46	15.74	976.72	DPE-3; Before restarting the system
DPE-5	12/21/2012	992.46	17.58	974.88	DPE-3; After restarting the system

TABLE 7

GROUNDWATER ELEVATIONS
MN Bio Business Center
221 First Avenue SW
Rochester, Minnesota

Well ID	Date Measured	Top of Casing Elevation[1,2]	Depth to Groundwater (feet)	Groundwater Elevation[3]	System Status
DPE-6	12/3/2008	991.44	12.93	978.51	pre-system installation
DPE-6	6/8/2009	992.40	16.19	976.21	pre-system startup
DPE-6	7/9/2009	992.40	16.54	975.86	DPE system on DPE-1
DPE-6	7/9/2009	992.40	15.92	976.48	DPE system temporarily off
DPE-6	9/4/2009	992.40	15.68	976.72	DPE system on DPE-1
DPE-6	9/4/2009	992.40	15.65	976.75	DPE-1 on after replacing inlet screen
DPE-6	9/4/2009	992.40	15.81	976.59	DPE-1 on after replacing inlet filter
DPE-6	10/15/2009	992.40	15.94	976.46	DPE system on DPE-1
DPE-6	10/23/2009	992.40	14.56	977.84	DPE system off
DPE-6	11/16/2009	992.40	14.24	978.16	DPE System on all wells
DPE-6	12/17/2009	992.40	14.89	977.51	DPE System on all wells
DPE-6	1/14/2010	992.40	15.14	977.26	DPE System on all wells
DPE-6	2/22/2010	992.40	15.61	976.79	DPE System on all wells
DPE-6	3/25/2010	992.40	15.24	977.16	DPE System on all wells
DPE-6	4/16/2010	992.40	15.48	976.92	DPE System on all wells
DPE-6	5/12/2010	992.40	16.02	976.38	DPE System on all wells
DPE-6	6/17/2010	992.40	15.98	976.42	DPE System on all wells
DPE-6	8/18/2010	992.40	16.56	975.84	DPE System on all wells
DPE-6	9/27/2010	992.40	13.98	978.42	DPE System on all wells
DPE-6	11/18/2010	992.40	14.24	978.16	DPE System not operating
DPE-6	12/22/2010	992.40	14.89	977.51	DPE System restarted
DPE-6	1/6/2011	992.40	13.96	978.44	DPE System on all wells
DPE-6	1/20/2011	992.40	14.20	978.20	DPE System on all wells
DPE-6	2/28/2011	992.40	14.31	978.09	DPE System on all wells
DPE-6	3/7/2011	992.40	14.80	977.60	DPE System on all wells
DPE-6	3/18/2011	992.40	14.87	977.53	DPE System on all wells
DPE-6	3/23/2011	992.40	14.08	978.32	DPE System on all wells
DPE-6	4/22/2011	992.40	13.52	978.88	DPE System on all wells
DPE-6	5/19/2011	992.40	14.09	978.31	DPE System on all wells
DPE-6	6/16/2011	992.40	14.30	978.10	DPE System on all wells
DPE-6	7/25/2011	992.40	14.64	977.76	DPE System on all wells
DPE-6	8/28/2011	992.40	15.38	977.02	DPE System on all wells
DPE-6	9/29/2011	992.40	15.57	976.83	DPE-1,2,3,4
DPE-6	10/18/2011	992.40	14.20	978.20	DPE-1,2,3,4
DPE-6	10/27/2011	992.40	15.64	976.76	DPE-1,2,3,4
DPE-6	11/21/2011	992.40	15.81	976.59	DPE-1,2,3,4
DPE-6	1/20/2012	992.40	15.39	977.01	DPE-1,2,3,4
DPE-6	1/27/2012	992.40	16.29	976.11	DPE-1,2,3,4
DPE-6	2/16/2012	992.40	16.28	976.12	DPE-1,2,3,4
DPE-6	3/16/2012	992.40	16.40	976.00	DPE-1,2,3,4
DPE-6	3/27/2012	992.40	15.68	976.72	DPE-1,2,3,4
DPE-6	4/17/2012	992.40	16.19	976.21	DPE-1,2,3,4
DPE-6	5/17/2012	992.40	16.09	976.31	DPE-1,2,3,4
DPE-6	5/31/2012	992.40	15.56	976.84	DPE-1,2,3,4
DPE-6	6/14/2012	992.40	16.51	975.89	DPE-1,2,3,4
DPE-6	7/19/2012	992.40	16.96	975.44	DPE-3
DPE-6	8/23/2012	992.40	16.51	975.89	DPE-3
DPE-6	9/26/2012	992.40	16.36	976.04	DPE-3
DPE-6	10/26/2012	992.40	16.42	975.98	DPE-3
DPE-6	12/19/2012	992.40	15.66	976.74	DPE-3; Before restarting the system
DPE-6	12/21/2012	992.40	16.00	976.40	DPE-3; After restarting the system

TABLE 7

GROUNDWATER ELEVATIONS
MN Bio Business Center
221 First Avenue SW
Rochester, Minnesota

Well ID	Date Measured	Top of Casing Elevation[1,2]	Depth to Groundwater (feet)	Groundwater Elevation[3]	System Status
DPE-7	12/3/2008	991.47	12.96	978.51	pre-system installation
DPE-7	6/8/2009	993.48	16.78	976.70	pre-system startup
DPE-7	7/9/2009	993.48	17.76	975.72	DPE system on DPE-1
DPE-7	7/9/2009	993.48	17.16	976.32	DPE system temporarily off
DPE-7	9/4/2009	993.48	17.03	976.45	DPE system on DPE-1
DPE-7	9/4/2009	993.48	17.00	976.48	DPE-1 on after replacing inlet screen
DPE-7	9/4/2009	993.48	17.18	976.30	DPE-1 on after replacing inlet filter
DPE-7	10/15/2009	993.48	16.80	976.68	DPE system on DPE-1
DPE-7	10/23/2009	993.48	15.68	977.80	DPE system off
DPE-7	11/16/2009	993.48	15.44	978.04	DPE System on all wells
DPE-7	12/17/2009	993.48	16.03	977.45	DPE System on all wells
DPE-7	1/14/2010	993.48	16.26	977.22	DPE System on all wells
DPE-7	2/22/2010	993.48	16.98	976.50	DPE System on all wells
DPE-7	3/25/2010	993.48	16.65	976.83	DPE System on all wells
DPE-7	4/16/2010	993.48	16.71	976.77	DPE System on all wells
DPE-7	5/12/2010	993.48	17.41	976.07	DPE System on all wells
DPE-7	6/17/2010	993.48	17.50	975.98	DPE System on all wells
DPE-7	8/18/2010	993.48	17.98	975.50	DPE System on all wells
DPE-7	9/27/2010	993.48	15.36	978.12	DPE System on all wells
DPE-7	11/18/2010	993.48	15.59	977.89	DPE System not operating
DPE-7	12/22/2010	993.48	16.02	977.46	DPE System restarted
DPE-7	1/6/2011	993.48	15.20	978.28	DPE System on all wells
DPE-7	1/20/2011	993.48	15.31	978.17	DPE System on all wells
DPE-7	2/28/2011	993.48	15.61	977.87	DPE System on all wells
DPE-7	3/7/2011	993.48	16.08	977.40	DPE System on all wells
DPE-7	3/18/2011	993.48	16.08	977.40	DPE System on all wells
DPE-7	3/23/2011	993.48	14.83	978.65	DPE System on all wells
DPE-7	4/22/2011	993.48	15.60	977.88	DPE System on all wells
DPE-7	5/19/2011	993.48	15.33	978.15	DPE System on all wells
DPE-7	6/16/2011	993.48	15.58	977.90	DPE System on all wells
DPE-7	7/25/2011	993.48	14.64	978.84	DPE System on all wells
DPE-7	8/28/2011	993.48	16.96	976.52	DPE System on all wells
DPE-7	9/29/2011	993.48	17.35	976.13	DPE-1,2,3,4
DPE-7	10/18/2011	993.48	16.25	977.23	DPE-1,2,3,4
DPE-7	10/27/2011	993.48	17.46	976.02	DPE-1,2,3,4
DPE-7	11/21/2011	993.48	17.14	976.34	DPE-1,2,3,4
DPE-7	1/20/2012	993.48	16.68	976.80	DPE-1,2,3,4
DPE-7	1/27/2012	993.48	17.64	975.84	DPE-1,2,3,4
DPE-7	2/16/2012	993.48	17.69	975.79	DPE-1,2,3,4
DPE-7	3/16/2012	993.48	17.71	975.77	DPE-1,2,3,4
DPE-7	3/27/2012	993.48	17.08	976.40	DPE-1,2,3,4
DPE-7	4/17/2012	993.48	17.41	976.07	DPE-1,2,3,4
DPE-7	5/17/2012	993.48	17.62	975.86	DPE-1,2,3,4
DPE-7	5/31/2012	993.48	17.11	976.37	DPE-1,2,3,4
DPE-7	6/14/2012	993.48	17.83	975.65	DPE-1,2,3,4
DPE-7	7/19/2012	993.48	18.41	975.07	DPE-3
DPE-7	8/23/2012	993.48	18.21	975.27	DPE-3
DPE-7	9/26/2012	993.48	17.81	975.67	DPE-3
DPE-7	10/26/2012	993.48	17.88	975.60	DPE-3
DPE-7	12/19/2012	993.48	17.02	976.46	DPE-3; Before restarting the system
DPE-7	12/21/2012	993.48	17.59	975.89	DPE-3; After restarting the system

TABLE 7

GROUNDWATER ELEVATIONS
MN Bio Business Center
221 First Avenue SW
Rochester, Minnesota

Well ID	Date Measured	Top of Casing Elevation[1,2]	Depth to Groundwater (feet)	Groundwater Elevation[3]	System Status
DPE-8	12/3/2008	991.48	12.56	978.92	pre-system installation
DPE-8	6/8/2009	992.84	14.50	978.34	pre-system startup
DPE-8	7/9/2009	992.84	14.57	978.27	DPE system on DPE-1
DPE-8	7/9/2009	992.84	14.49	978.35	DPE system temporarily off
DPE-8	9/4/2009	992.84	14.29	978.55	DPE system on DPE-1
DPE-8	9/4/2009	992.84	14.31	978.53	DPE-1 on after replacing inlet screen
DPE-8	9/4/2009	992.84	14.28	978.56	DPE-1 on after replacing inlet filter
DPE-8	10/15/2009	992.84	14.01	978.83	DPE system on DPE-1
DPE-8	10/23/2009	992.84	13.18	979.66	DPE system off
DPE-8	11/16/2009	992.84	13.30	979.54	DPE System on all wells
DPE-8	12/17/2009	992.84	15.31	977.53	DPE System on all wells
DPE-8	1/14/2010	992.84	16.58	976.26	DPE System on all wells
DPE-8	2/22/2010	992.84	14.19	978.65	DPE System on all wells
DPE-8	3/25/2010	992.84	15.72	977.12	DPE System on all wells
DPE-8	4/16/2010	992.84	16.20	976.64	DPE System on all wells
DPE-8	5/12/2010	992.84	16.61	976.23	DPE System on all wells
DPE-8	6/17/2010	992.84	16.92	975.92	DPE System on all wells
DPE-8	8/18/2010	992.84	17.21	975.63	DPE System on all wells
DPE-8	9/27/2010	992.84	14.75	978.09	DPE System on all wells
DPE-8	11/18/2010	992.84	15.37	977.47	DPE System not operating
DPE-8	12/22/2010	992.84	15.40	977.44	DPE System restarted
DPE-8	1/6/2011	992.84	15.18	977.66	DPE System on all wells
DPE-8	1/20/2011	992.84	16.15	976.69	DPE System on all wells
DPE-8	2/28/2011	992.84	16.78	976.06	DPE System on all wells
DPE-8	3/7/2011	992.84	15.81	977.03	DPE System on all wells
DPE-8	3/18/2011	992.84	15.71	977.13	DPE System on all wells
DPE-8	3/23/2011	992.84	14.20	978.64	DPE System on all wells
DPE-8	4/22/2011	992.84	14.61	978.23	DPE System on all wells
DPE-8	5/19/2011	992.84	15.18	977.66	DPE System on all wells
DPE-8	6/16/2011	992.84	15.48	977.36	DPE System on all wells
DPE-8	7/25/2011	992.84	14.41	978.43	DPE System on all wells
DPE-8	8/28/2011	992.84	16.91	975.93	DPE System on all wells
DPE-8	9/29/2011	992.84	16.37	976.47	DPE-1,2,3,4
DPE-8	10/18/2011	992.84	15.41	977.43	DPE-1,2,3,4
DPE-8	10/27/2011	992.84	16.82	976.02	DPE-1,2,3,4
DPE-8	11/21/2011	992.84	17.11	975.73	DPE-1,2,3,4
DPE-8	1/20/2012	992.84	16.74	976.10	DPE-1,2,3,4
DPE-8	1/27/2012	992.84	17.43	975.41	DPE-1,2,3,4
DPE-8	2/16/2012	992.84	DRY	NA	DPE-1,2,3,4
DPE-8	3/16/2012	992.84	17.50	975.34	DPE-1,2,3,4
DPE-8	3/27/2012	992.84	16.78	976.06	DPE-1,2,3,4
DPE-8	4/17/2012	992.84	17.49	975.35	DPE-1,2,3,4
DPE-8	5/17/2012	992.84	DRY	NA	DPE-1,2,3,4
DPE-8	5/31/2012	992.84	16.99	975.85	DPE-1,2,3,4
DPE-8	6/14/2012	992.84	DRY	NA	DPE-1,2,3,4
DPE-8	7/19/2012	992.84	DRY	NA	DPE-3
DPE-8	8/23/2012	992.84	DRY	NA	DPE-3
DPE-8	9/26/2012	992.84	DRY	NA	DPE-3
DPE-8	10/26/2012	992.84	DRY	NA	DPE-3
DPE-8	12/19/2012	992.84	17.02	975.82	DPE-3; Before restarting the system
DPE-8	12/21/2012	992.84	DRY	NA	DPE-3; After restarting the system

TABLE 7

GROUNDWATER ELEVATIONS
MN Bio Business Center
221 First Avenue SW
Rochester, Minnesota

Well ID	Date Measured	Top of Casing Elevation[1,2]	Depth to Groundwater (feet)	Groundwater Elevation[3]	System Status
Elevator Draintile Sump	6/8/2009	989.58	7.00	982.58	pre-system startup
Elevator Draintile Sump	6/25/2009	990.20	6.34	983.86	pre-system startup
Elevator Draintile Sump	7/9/2009	990.20	6.38	983.82	DPE system on DPE-1
Elevator Draintile Sump	9/4/2009	990.20	6.29	983.91	DPE system on DPE-1
Elevator Draintile Sump	10/15/2009	990.20	6.18	984.02	DPE system on DPE-1
Elevator Draintile Sump	10/23/2009	990.20	6.08	984.12	DPE system off
Elevator Draintile Sump	11/16/2009	990.20	5.72	984.48	DPE System on all wells
Elevator Draintile Sump	12/17/2009	990.20	6.48	983.72	DPE System on all wells
Elevator Draintile Sump	1/14/2010	990.20	6.46	983.74	DPE System on all wells
Elevator Draintile Sump	2/22/2010	990.20	6.81	983.39	DPE System on all wells
Elevator Draintile Sump	3/25/2010	990.20	6.88	983.32	DPE System on all wells
Elevator Draintile Sump	4/16/2010	990.20	6.91	983.29	DPE System on all wells
Elevator Draintile Sump	5/12/2010	990.20	7.01	983.19	DPE System on all wells
Elevator Draintile Sump	6/17/2010	990.20	6.88	983.32	DPE System on all wells
Elevator Draintile Sump	8/18/2010	990.20	6.72	983.48	DPE System on all wells

TABLE 7

GROUNDWATER ELEVATIONS
MN Bio Business Center
221 First Avenue SW
Rochester, Minnesota

Well ID	Date Measured	Top of Casing Elevation[1,2]	Depth to Groundwater (feet)	Groundwater Elevation[3]	System Status
Elevator Draintile Sump	9/27/2010	990.20	6.02	984.18	DPE System on all wells
Elevator Draintile Sump	11/18/2010	990.20	6.59	983.61	DPE System not operating
Elevator Draintile Sump	12/22/2010	990.20	6.48	983.72	DPE System restarted
Elevator Draintile Sump	1/6/2011	990.20	NA	NA	DPE System on all wells
Elevator Draintile Sump	1/20/2011	990.20	6.84	983.36	DPE System on all wells
Elevator Draintile Sump	2/28/2011	990.20	7.03	983.17	DPE System on all wells
Elevator Draintile Sump	3/7/2011	990.20	6.91	983.29	DPE System on all wells
Elevator Draintile Sump	3/18/2011	990.20	6.97	983.23	DPE System on all wells
Elevator Draintile Sump	3/23/2011	990.20	6.76	983.44	DPE System on all wells
Elevator Draintile Sump	4/22/2011	990.20	6.52	983.68	DPE System on all wells
Elevator Draintile Sump	5/19/2011	990.20	6.27	983.93	DPE System on all wells
Elevator Draintile Sump	6/16/2011	990.20	6.52	983.68	DPE System on all wells
Elevator Draintile Sump	7/25/2011	990.20	5.58	984.62	DPE System on all wells
Elevator Draintile Sump	8/28/2011	990.20	6.56	983.64	DPE System on all wells
Elevator Draintile Sump	9/29/2011	990.20	6.97	983.23	DPE-1,2,3,4
Elevator Draintile Sump	10/18/2011	990.20	6.68	983.52	DPE-1,2,3,4
Elevator Draintile Sump	10/27/2011	990.20	7.01	983.19	DPE-1,2,3,4
Elevator Draintile Sump	11/21/2011	990.20	7.31	982.89	DPE-1,2,3,4

TABLE 7

GROUNDWATER ELEVATIONS
MN Bio Business Center
221 First Avenue SW
Rochester, Minnesota

Well ID	Date Measured	Top of Casing Elevation[1,2]	Depth to Groundwater (feet)	Groundwater Elevation[3]	System Status
Elevator Draintile Sump	1/20/2012	990.20	7.33	982.87	DPE-1,2,3,4
Elevator Draintile Sump	1/27/2012	990.20	7.38	982.82	DPE-1,2,3,4
Elevator Draintile Sump	2/16/2012	990.20	7.44	982.76	DPE-1,2,3,4
Elevator Draintile Sump	3/16/2012	990.20	7.61	982.59	DPE-1,2,3,4
Elevator Draintile Sump	4/17/2012	990.20	7.97	982.23	DPE-1,2,3,4
Elevator Draintile Sump	5/17/2012	990.20	DRY	NA	DPE-1,2,3,4
Elevator Draintile Sump	5/31/2012	990.20	6.99	983.21	DPE-1,2,3,4
Elevator Draintile Sump	6/14/2012	990.20	7.11	983.09	DPE-1,2,3,4
Elevator Draintile Sump	7/19/2012	990.20	7.09	983.11	DPE-3
Elevator Draintile Sump	8/23/2012	990.20	6.88	983.32	DPE-3
Elevator Draintile Sump	9/26/2012	990.20	7.19	983.01	DPE-3
Elevator Draintile Sump	10/26/2012	990.20	7.41	982.79	DPE-3
Elevator Draintile Sump	12/19/2012	990.20	7.33	982.87	DPE-3; Before restarting the system
Elevator Draintile Sump	12/21/2012	990.20	7.36	982.84	DPE-3; After restarting the system

Notes:
NR: Not Recorded
1. Monitoring well top of casing elevations were surveyed by Adolfson and Peterson on 4/22/08.
2. DPE well top of casing elevations changed during DPE well head installation and were estimated from a basement floor elevation of 989.5 ft and include the distance from the floor to the top of the well seal cover and the distance from the well seal cover to the top of the PVC stickup for collecting water level readings.
3. Elevations are in feet above mean sea level.

TABLE 8

WELL CONSTRUCTION SUMMARY
(elevations are in feet above mean sea level)

MN Bio Business Center
221 First Avenue SW
Rochester, Minnesota

Monitoring Well	Top of Casing Elevation[1,2]	Basement Floor Elevation	Top of Seal Elevation	Top of Filter Pack Elevation	Top of Well Screen Elevation	Bottom of Well Screen Elevation	Screen Interval (feet)	Depth to Bottom of Well (feet)	Bottom of Well Elevation	Well Completion
MW-14	989.50	989.50	989.50	986.00	984.00	974.00	10	17.5	972.00	flush-mounted
MW-15	991.50	989.50	990.50	987.50	985.50	975.50	10	18.0	973.50	stickup
MW-16	989.44	989.50	989.94	985.44	983.44	973.44	10	18.0	971.44	flush-mounted
MW-17	989.53	989.50	989.03	973.53	971.53	966.53	5	25.0	964.53	flush-mounted
MW-18	989.50	989.50	989.25	938.50	936.50	931.50	5	60.0	929.50	flush-mounted
MW-19	991.13	989.50	990.63	984.13	983.13	973.13	10	20.0	971.13	stickup
MW-20	991.50	989.50	992.80	988.80	986.80	976.80	10	16.7	974.80	stickup
DPE-1	992.40	989.50	989.53	984.53	982.53	970.53	12	21.9	970.53	stickup
DPE-2	992.80	989.50	990.28	986.28	984.28	972.28	12	20.5	972.28	stickup
DPE-3	992.48	989.50	990.42	989.42	987.42	975.42	12	17.1	975.42	stickup
DPE-4	992.40	989.50	990.07	987.07	985.07	973.07	12	19.3	973.07	stickup
DPE-5	992.46	989.50	990.32	987.32	986.32	974.32	12	18.1	974.32	stickup
DPE-6	992.40	989.50	989.87	986.87	984.87	972.87	12	19.5	972.87	stickup
DPE-7	993.48	989.50	990.32	984.32	983.32	971.32	12	22.2	971.32	stickup
DPE-8	992.84	989.50	990.84	989.34	987.34	975.34	12	17.5	975.34	stickup

Notes:

1. Monitoring well top of casing elevations were surveyed by Adolfson and Peterson on 4/22/08.
2. DPE well top of casing elevations changed during DPE well head installation and were estimated from a basement floor elevation of 989.5 ft and include the distance from the floor to the top of the well seal cover and the distance from the well seal cover to the top of the PVC stickup for collecting water level readings.

TABLE 9

PCE GROUNDWATER CONCENTRATION DATA
MN Bio Business Center
221 First Avenue SW
Rochester, Minnesota

Sample ID	Date	PCE Conc. (ug/L)	% Change
MW-14	12/3/2008	30.6	
	6/29/2009	30.6	
	10/1/2009	4.2	-86.3
	11/16/2009	7.1	-76.8
	2/23/2010	3.0	-90.2
	5/12/2010	3.1	-89.9
	8/18/2010	1.8	-94.1
	11/18/2010	6.6	-78.4
	3/1/2011	4.8	-84.3
	5/19/2011	5.0	-83.7
	8/28/2011	1.5	-95.1
	11/21/2011	1.5	-95.1
	2/16/2012	<1.0	-100.0
	5/17/2012	<1.0	-100.0
	9/26/2012	<1.0	-100.0
	12/19/2012	1.3	-95.8
MW-15	12/10/2008	104	
	6/29/2009	104	
	10/1/2009	15.7	-84.9
	11/16/2009	9.5	-90.9
	2/22/2010	5.7	-94.5
	5/12/2010	2.8	-97.3
	8/18/2010	1.3	-98.8
	11/18/2010	3.3	-96.8
	3/1/2011	<1.0	-100.0
	5/19/2011	<1.0	-100.0
	8/28/2011	1.2	-98.8
	11/21/2011	<1.0	-100.0
	2/15/2012	<1.0	-100.0
	5/17/2012	<1.0	-100.0
	9/26/2012	<1.1	-99.0
	12/19/2012	<1.0	-100.0
MW-16	12/3/2008	14,100	
	6/29/2009	14,100	
	10/1/2009	6,890	-51.1
	11/16/2009	21,000	48.9
	2/22/2010	4,390	-68.9
	5/12/2010	815	-94.2
	8/18/2010	696	-95.1
	11/18/2010	2,120	-85.0
	3/1/2011	322	-97.7
	5/19/2011	1,310	-90.7
	8/28/2011	590	-95.8
	11/21/2011	75	-99.5
	2/15/2012	16.1	-99.9
	5/17/2012	7.8	-99.9
	9/26/2012	21.8	-99.8
	12/19/2012	128.0	-99.1

TABLE 9

PCE GROUNDWATER CONCENTRATION DATA
MN Bio Business Center
221 First Avenue SW
Rochester, Minnesota

Sample ID	Date	PCE Conc. (ug/L)	% Change
MW-17	12/3/2008	363	
	6/29/2009	363	
	10/1/2009	803	121.2
	11/16/2009	1,100	203.0
	2/22/2010	639	76.0
	5/12/2010	412	13.5
	8/18/2010	174	-52.1
	11/18/2010	209	-42.4
	3/1/2011	145	-60.1
	5/19/2011	109	-70.0
	8/28/2011	107	-70.5
	11/21/2011	106	-70.8
	2/15/2012	47.1	-87.0
	5/17/2012	37.1	-89.8
	9/26/2012	38.1	-89.5
	12/19/2012	22.0	-93.9
MW-18	12/3/2008	257	
	6/29/2009	257	
	10/1/2009	250	-2.7
	11/16/2009	130	-49.4
	2/22/2010	96.8	-62.3
	5/12/2010	26.0	-89.9
	8/18/2010	8.4	-96.7
	11/18/2010	8.6	-96.7
	3/1/2011	4.8	-98.1
	5/19/2011	3.6	-98.6
	8/28/2011	3.6	-98.6
	11/21/2011	3.6	-98.6
	2/15/2012	2.9	-98.9
	5/17/2012	1.5	-99.4
	9/26/2012	1.8	-99.3
	12/19/2012	<1.0	-100.0
MW-19	12/3/2008	2.4	
	6/29/2009	2.4	
	9/24/2009	17.4	625.0
	11/16/2009	13.6	466.7
	2/23/2010	12.9	437.5
	5/12/2010	7.2	200.0
	8/18/2010	4.2	75.0
	11/18/2010	4.8	100.0
	3/1/2011	4.8	100.0
	5/19/2011	4.7	95.8
	8/28/2011	2.9	20.8
	11/21/2011	2.7	12.5
	2/15/2012	2.2	-8.3
	5/17/2012	1.1	-54.2
	9/26/2012	<1.0	-100.0
	12/19/2012	1.4	-41.7

TABLE 9

PCE GROUNDWATER CONCENTRATION DATA
MN Bio Business Center
221 First Avenue SW
Rochester, Minnesota

Sample ID	Date	PCE Conc. (ug/L)	% Change
MW-20	12/10/2008	599	
	6/29/2009	599	
	10/1/2009	713	19.0
	11/16/2009	307	-48.7
	2/23/2010	402	-32.9
	5/12/2010	194	-67.6
	8/18/2010	74.7	-87.5
	11/18/2010	50.9	-91.5
	3/1/2011	211	-64.8
	5/19/2011	16.8	-97.2
	8/28/2011	12.2	-98.0
	11/21/2011	32.5	-94.6
	2/15/2012	41.8	-93.0
	5/17/2012	28.7	-95.2
	9/26/2012	17.4	-97.1
	12/19/2012	40.8	-93.2
DPE-1	8/7/2008	157,000	
	12/10/2008	161,000	
	6/29/2009	161,000	
	9/28/2009	6,820	-95.8
	11/16/2009	3,330	-97.9
	2/22/2010	2,610	-98.4
	5/13/2010	1,700	-98.9
	8/18/2010	965	-99.4
	12/22/2010	1,190	-99.3
	3/1/2011	101	-99.9
	5/19/2011	185	-99.9
	8/28/2011	309	-99.8
	11/21/2011	99	-99.9
	2/16/2012	26.4	-100.0
	5/17/2012	38.8	-100.0
	9/26/2012	82.2	-99.9
	12/19/2012	505.0	-99.7
DPE-2	12/10/2008	38,200	
	6/29/2009	38,200	
	9/28/2009	32,000	-16.2
	11/17/2009	10,600	-72.3
	2/22/2010	2,710	-92.9
	5/13/2010	5,800	-84.8
	8/18/2010	12,100	-68.3
	12/22/2010	4,690	-87.7
	3/1/2011	2,990	-92.2
	5/19/2011	1,680	-95.6
	8/28/2011	2,080	-94.6
	11/21/2011	890	-97.7
	2/16/2012	511	-98.7
	5/17/2012	206	-99.5
	9/26/2012	39	-99.9
	12/19/2012	746	-98.0

TABLE 9

PCE GROUNDWATER CONCENTRATION DATA
MN Bio Business Center
221 First Avenue SW
Rochester, Minnesota

Sample ID	Date	PCE Conc. (ug/L)	% Change
DPE-3	12/10/2008	152,000	
	6/29/2009	152,000	
	9/28/2009	20,300	-86.6
	11/17/2009	34,600	-77.2
	2/22/2010	806	-99.5
	5/13/2010	2,240	-98.5
	8/18/2010	20,400	-86.6
	12/22/2010	1,450	-99.0
	3/1/2011	12,700	-91.6
	5/19/2011	3,220	-97.9
	8/28/2011	4,260	-97.2
	11/21/2011	5,310	-96.5
	2/16/2012	1,010	-99.3
	5/17/2012	3,690	-97.6
	9/26/2012	75	-100.0
	12/19/2012	5,670	-96.3
DPE-4	12/10/2008	35,600	
	6/29/2009	35,600	
	9/28/2009	7,340	-79.4
	11/17/2009	5,040	-85.8
	2/22/2010	429	-98.8
	5/13/2010	357	-99.0
	8/18/2010	2,600	-92.7
	12/22/2010	1,100	-96.9
	3/1/2011	1,160	-96.7
	5/19/2011	367	-99.0
	8/28/2011	771	-97.8
	11/21/2011	763	-97.9
	2/16/2012	830	-97.7
	5/17/2012	223	-99.4
	9/26/2012	187	-99.5
	12/19/2012	1,410	-96.0
DPE-5	12/10/2008	1,340	
	6/29/2009	1,340	
	9/24/2009	875	-34.7
	11/17/2009	1,450	8.2
	2/22/2010	486	-63.7
	5/13/2010	205	-84.7
	8/18/2010	124	-90.7
	12/22/2010	22	-98.4
	3/1/2011	339	-74.7
	5/19/2011	67	-95.0
	8/28/2011	<1.0	-100.0
	11/21/2011	51	-96.2
	2/16/2012	70	-94.8
	5/17/2012	11	-99.2
	9/26/2012	16	-98.8
	12/19/2012	74	-94.5

TABLE 9

PCE GROUNDWATER CONCENTRATION DATA
MN Bio Business Center
221 First Avenue SW
Rochester, Minnesota

Sample ID	Date	PCE Conc. (ug/L)	% Change
DPE-6	12/10/2008	188	
	6/29/2009	188	
	9/24/2009	79.3	-57.8
	11/17/2009	104	-44.7
	2/22/2010	57.8	-69.3
	5/13/2010	14.6	-92.2
	8/18/2010	21.7	-88.5
	12/22/2010	77.1	-59.0
	3/1/2011	3.9	-97.9
	5/19/2011	23.4	-87.6
	8/28/2011	7.7	-95.9
	11/21/2011	1.9	-99.0
	2/16/2012	44.8	-76.2
	5/17/2012	<1.0	-100.0
	9/26/2012	4.6	-99.0
	12/19/2012	10.9	-99.0
DPE-7	12/10/2008	22.3	
	6/29/2009	22.3	
	9/24/2009	5.2	-76.7
	11/17/2009	55.2	147.5
	2/22/2010	7.3	-67.3
	5/13/2010	25.7	15.2
	8/18/2010	189	747.5
	12/22/2010	23.2	4.0
	3/1/2011	7.1	-68.2
	5/19/2011	15.9	-28.7
	8/28/2011	26.9	20.6
	11/21/2011	<1.0	-100.0
	2/16/2012	27.8	24.7
	5/17/2012	<1.0	-100.0
	9/26/2012	<1.0	-100.0
	12/19/2012	3.7	-83.4
DPE-8	12/10/2008	14,200	
	6/29/2009	14,200	
	9/24/2009	1,850	-87.0
	11/17/2009	1,480	-89.6
	2/22/2010	90.3	-99.4
	5/13/2010	66.9	-99.5
	8/18/2010	131.0	-99.1
	12/22/2010	262.0	-98.2
	3/1/2011	415.0	-97.1
	5/19/2011	698.0	-95.1
	8/28/2011	700.0	-95.1
	11/21/2011	389.0	-97.3
	2/16/2012	NS	NS
	5/17/2012	NS	NS
	9/26/2012	NS	NS
	12/19/2012	NS	NS

Notes:
NS - Not Sampled

TABLE 10

GROUNDWATER ANALYTICAL RESULTS (ug/L)
MN Bio Business Center
221 1st Avenue SW
Rochester, Minnesota

Sample ID Collected Date and Time	MDH Health Risk Limits 5/09	DPE-1 12/19/2012	DPE-1 9/26/2012	DPE-1 5/17/2012	DPE-1 2/16/2012	DPE-1 11/21/2011	DPE-1 8/28/2011	DPE-1 5/19/2011	DPE-1 03/01/11
1,1,1,2-Tetrachloroethane	70	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1,1-Trichloroethane	9000	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1,2,2-Tetrachloroethane	2	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1,2-Trichloroethane	3	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1,2-Trichlorotrifluoroethane	200000	**3.9**	**1.1**	**1.1**	<1.0	**3.2**	**9.5**	**13.3**	**3.2**
1,1-Dichloroethane	70	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1-Dichloroethene	6	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1-Dichloropropene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2,3-Trichlorobenzene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2,3-Trichloropropane	40	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
1,2,4-Trichlorobenzene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2,4-Trimethylbenzene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-Dibromo-3-chloropropane	NL	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
1,2-Dibromoethane (EDB)	.004	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-Dichlorobenzene	600	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-Dichloroethane	4	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-Dichloropropane	5	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<1.0
1,3,5-Trimethylbenzene	100	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,3-Dichlorobenzene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,3-Dichloropropane	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,4-Dichlorobenzene	10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
2,2-Dichloropropane	NL	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
2-Butanone (MEK)	4000	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
2-Chlorotoluene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
4-Chlorotoluene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
4-Methyl-2-pentanone (MIBK)	300	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Acetone	700	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
Allyl chloride	30	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Benzene	2	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Bromobenzene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Bromochloromethane	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Bromodichloromethane	6	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Bromoform	40	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<8.0
Bromomethane	10	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<10.0
Carbon tetrachloride	3	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<4.0
Chlorobenzene	100	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Chloroethane	300	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Chloroform	30	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Chloromethane	NL	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
cis-1,2-Dichloroethene	50	<1.0	<1.0	<1.0	<1.0	<1.0	**2.9**	**1.3**	<1.0
cis-1,3-Dichloropropene	NL	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Dibromochloromethane	10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Dibromomethane	NL	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Dichlorodifluoromethane	1000	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Dichlorofluoromethane	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Diethyl ether (Ethyl ether)	1000	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Ethylbenzene	700	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Hexachloro-1,3-butadiene	1	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<4.0
Isopropylbenzene (Cumene)	300	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
m&p-Xylene	NL	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Methylene Chloride	5	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Methyl-tert-butyl ether	70	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Naphthalene	300	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
n-Butylbenzene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
n-Propylbenzene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
o-Xylene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
p-Isopropyltoluene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
sec-Butylbenzene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Styrene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
tert-Butylbenzene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Tetrachloroethene	5	**505**	**82.2**	**38.8**	**26.4**	**99.2**	**309**	**185**	**101**
Tetrahydrofuran	100	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
Toluene	1000	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
trans-1,2-Dichloroethene	100	<1.0	<1.0	<1.0	<1.0	<4.0	<4.0	<4.0	<1.0
trans-1,3-Dichloropropene	NL	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Trichloroethene	5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Trichlorofluoromethane	2000	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Vinyl chloride	0.2	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40
Xylene (Total)	10000	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0

Notes:
NL: No Limit
NA*: Not Analyzed
NS: Not Sampled

1,620 Parameter detected above laboratory reporting limit
5.2 Parameter detected above MDH Health Risk Limit

TABLE 10

GROUNDWATER ANALYTICAL RESULTS (ug/L)
MN Bio Business Center
221 1st Avenue SW
Rochester, Minnesota

Sample ID / Collected Date and Time	MDH Health Risk Limits 5/09	DPE-1 12/22/10	DPE-1 08/18/10	DPE-1 05/13/10	DPE-1 02/22/10	DPE-1 11/16/09	DPE-1 09/28/09	DPE-1 12/10/08	DPE-1 8/7/2008
1,1,1,2-Tetrachloroethane	70	<5.0	<5.0	<1.0	<25.0	<25.0	<50.0	NA*	<250
1,1,1-Trichloroethane	9000	<5.0	<5.0	<1.0	<25.0	<25.0	<50.0	NA*	<250
1,1,2,2-Tetrachloroethane	2	<5.0	<5.0	<1.0	<25.0	<25.0	<50.0	NA*	<250
1,1,2-Trichloroethane	3	<5.0	<5.0	<1.0	<25.0	<25.0	<50.0	NA*	<250
1,1,2-Trichlorotrifluoroethane	200000	**37.8**	**66.4**	**148**	**190**	**215**	**912**	NA*	**11,300**
1,1-Dichloroethane	70	<5.0	<5.0	<1.0	<25.0	<25.0	<50.0	NA*	<250
1,1-Dichloroethene	6	<5.0	<5.0	<1.0	<25.0	<25.0	<50.0	<2000	<250
1,1-Dichloropropene	NL	<5.0	<5.0	<1.0	<25.0	<25.0	<50.0	NA*	<250
1,2,3-Trichlorobenzene	NL	<5.0	<5.0	<1.0	<25.0	<25.0	<50.0	NA*	<250
1,2,3-Trichloropropane	40	<5.0	<5.0	<1.0	<25.0	<25.0	<50.0	NA*	<250
1,2,4-Trichlorobenzene	NL	<5.0	<5.0	<1.0	<25.0	<25.0	<50.0	NA*	<250
1,2,4-Trimethylbenzene	NL	<5.0	<5.0	<1.0	<25.0	<25.0	<50.0	NA*	<250
1,2-Dibromo-3-chloropropane	NL	<20.0	<20.0	<4.0	<100	<100	<200	NA*	<1000
1,2-Dibromoethane (EDB)	.004	<5.0	<5.0	<1.0	<25.0	<25.0	<50.0	NA*	<250
1,2-Dichlorobenzene	600	<5.0	<5.0	<1.0	<25.0	<25.0	<50.0	NA*	<250
1,2-Dichloroethane	4	<5.0	<5.0	<1.0	<25.0	<25.0	<50.0	NA*	<250
1,2-Dichloropropane	5	<5.0	<5.0	<1.0	<25.0	<25.0	<50.0	NA*	<250
1,3,5-Trimethylbenzene	100	<5.0	<5.0	<1.0	<25.0	<25.0	<50.0	NA*	<250
1,3-Dichlorobenzene	NL	<5.0	<5.0	<1.0	<25.0	<25.0	<50.0	NA*	<250
1,3-Dichloropropane	NL	<5.0	<5.0	<1.0	<25.0	<25.0	<50.0	NA*	<250
1,4-Dichlorobenzene	10	<5.0	<5.0	<1.0	<25.0	<25.0	<50.0	NA*	<250
2,2-Dichloropropane	NL	<20.0	<20.0	<4.0	<25.0	<100	<50.0	NA*	<250
2-Butanone (MEK)	4000	<20.0	<20.0	<4.0	<100	<100	<200	NA*	<1000
2-Chlorotoluene	NL	<5.0	<5.0	<1.0	<25.0	<25.0	<50.0	NA*	<250
4-Chlorotoluene	NL	<5.0	<5.0	<1.0	<25.0	<25.0	<50.0	NA*	<250
4-Methyl-2-pentanone (MIBK)	300	<20.0	<20.0	<4.0	<100	<100	<200	NA*	<1000
Acetone	700	<50.0	<50.0	<10.0	<250	<250	<500	NA*	<2500
Allyl chloride	30	<20.0	<20.0	<4.0	<100	<100	<200	NA*	<1000
Benzene	2	<5.0	<5.0	<1.0	<25.0	<25.0	<50.0	NA*	<250
Bromobenzene	NL	<5.0	<5.0	<1.0	<25.0	<25.0	<50.0	NA*	<250
Bromochloromethane	NL	<5.0	<5.0	<1.0	<25.0	<25.0	<50.0	NA*	<250
Bromodichloromethane	6	<5.0	<5.0	<1.0	<25.0	<25.0	<50.0	NA*	<250
Bromoform	40	<40.0	<40.0	<8.0	<200	<200	<400	NA*	<2000
Bromomethane	10	<20.0	<20.0	<4.0	<100	<100	<200	NA*	<1000
Carbon tetrachloride	3	<20.0	<20.0	<4.0	<25.0	<100	<50.0	NA*	<250
Chlorobenzene	100	<5.0	<5.0	<1.0	<25.0	<25.0	<50.0	NA*	<250
Chloroethane	300	<5.0	<5.0	<1.0	<25.0	<25.0	<50.0	NA*	<250
Chloroform	30	<5.0	<5.0	**2.6**	<25.0	<25.0	<50.0	NA*	<250
Chloromethane	NL	<20.0	<20.0	<4.0	<100	<100	<200	NA*	<250
cis-1,2-Dichloroethene	50	**11.5**	<5.0	**8.7**	<25.0	<25.0	<50.0	<2000	**3,250**
cis-1,3-Dichloropropene	NL	<20.0	<20.0	<4.0	<100	<100	<200	NA*	<1000
Dibromochloromethane	10	<5.0	<5.0	<1.0	<25.0	<25.0	<50.0	NA*	<250
Dibromomethane	NL	<20.0	<20.0	<4.0	<25.0	<25.0	<50.0	NA*	<250
Dichlorodifluoromethane	1000	<5.0	<5.0	<1.0	<25.0	<25.0	<50.0	NA*	<250
Dichlorofluoromethane	NL	<5.0	<5.0	<1.0	<25.0	<25.0	<50.0	NA*	<250
Diethyl ether (Ethyl ether)	1000	<20.0	<20.0	<4.0	<100	<100	<200	NA*	<1000
Ethylbenzene	700	<5.0	<5.0	<1.0	<25.0	<25.0	<50.0	NA*	<250
Hexachloro-1,3-butadiene	1	<20.0	<20.0	<4.0	<100	<100	<200	NA*	<1000
Isopropylbenzene (Cumene)	300	<5.0	<5.0	<1.0	<25.0	<25.0	<50.0	NA*	<250
m&p-Xylene	NL	<10.0	<10.0	<2.0	<50.0	<50.0	<100	NA*	<500
Methylene Chloride	5	<20.0	<20.0	<4.0	<100	<100	<200	NA*	<1000
Methyl-tert-butyl ether	70	<5.0	<5.0	<1.0	<25.0	<25.0	<50.0	NA*	<250
Naphthalene	300	<20.0	<20.0	<4.0	<100	<100	<200	NA*	<1000
n-Butylbenzene	NL	<5.0	<5.0	<1.0	<25.0	<25.0	<50.0	NA*	<250
n-Propylbenzene	NL	<5.0	<5.0	<1.0	<25.0	<25.0	<50.0	NA*	<250
o-Xylene	NL	<5.0	<5.0	<1.0	<25.0	<25.0	<50.0	NA*	<250
p-Isopropyltoluene	NL	<5.0	<5.0	<1.0	<25.0	<25.0	<50.0	NA*	<250
sec-Butylbenzene	NL	<5.0	<5.0	<1.0	<25.0	<25.0	<50.0	NA*	<250
Styrene	NL	<5.0	<5.0	<1.0	<25.0	<25.0	<50.0	NA*	<250
tert-Butylbenzene	NL	<5.0	<5.0	<1.0	<25.0	<25.0	<50.0	NA*	<250
Tetrachloroethene	5	**1190**	**965**	**1,700**	**2,610**	**3,330**	**6,820**	**161,000**	**157,000**
Tetrahydrofuran	100	<50.0	<50.0	<10.0	<250	<250	<500	NA*	<2500
Toluene	1000	<5.0	<5.0	<1.0	<25.0	<25.0	<50.0	NA*	<250
trans-1,2-Dichloroethene	100	<5.0	<5.0	<1.0	<25.0	<25.0	<50.0	<2000	<250
trans-1,3-Dichloropropene	NL	<20.0	<20.0	<4.0	<100	<100	<200	NA*	<1000
Trichloroethene	5	<5.0	<5.0	**2.3**	<25.0	<25.0	<50.0	<2000	**563**
Trichlorofluoromethane	2000	<5.0	<5.0	<1.0	<25.0	<25.0	<50.0	NA*	<250
Vinyl chloride	0.2	<2.0	<2.0	<0.40	<10.0	<10.0	<20.0	<800	<100
Xylene (Total)	10000	<15.0	<15.0	<3.0	<75.0	<75.0	<150	NA*	<750

Notes:
NL: No Limit
NA*: Not Analyzed
NS: Not Sampled

1,620 Parameter detected above laboratory reporting limit
5.2 Parameter detected above MDH Health Risk Limit

TABLE 10

GROUNDWATER ANALYTICAL RESULTS (ug/L)
MN Bio Business Center
221 1st Avenue SW
Rochester, Minnesota

Sample ID	MDH Health Risk Limits 5/09	DPE-2	DPE-2	DPE-2	DPE-2	DPE-2	DPE-2	DPE-2	DPE-2
Collected Date and Time		12/19/12	09/26/12	05/17/12	02/16/12	11/21/11	08/28/11	05/19/11	03/01/11
1,1,1,2-Tetrachloroethane	70	<1.0	<1.0	<2.0	<5.0	<10.0	<10.0	<1.0	<25.0
1,1,1-Trichloroethane	9000	<1.0	<1.0	<2.0	<5.0	<10.0	<10.0	<1.0	<25.0
1,1,2,2-Tetrachloroethane	2	<1.0	<1.0	<2.0	<5.0	<10.0	<10.0	<1.0	<25.0
1,1,2-Trichloroethane	3	<1.0	<1.0	<2.0	<5.0	<10.0	<10.0	<1.0	<25.0
1,1,2-Trichlorotrifluoroethane	200000	**43.5**	**3.1**	**23.8**	**41.5**	**110**	**212**	**199**	<25.0
1,1-Dichloroethane	70	<1.0	<1.0	<2.0	<5.0	<10.0	<10.0	<1.0	<25.0
1,1-Dichloroethene	6	<1.0	<1.0	<2.0	<5.0	<10.0	<10.0	<1.0	<25.0
1,1-Dichloropropene	NL	<1.0	<1.0	<2.0	<5.0	<10.0	<10.0	<1.0	<25.0
1,2,3-Trichlorobenzene	NL	<1.0	<1.0	<2.0	<5.0	<10.0	<10.0	<1.0	<25.0
1,2,3-Trichloropropane	40	<4.0	<4.0	<8.0	<20.0	<40.0	<40.0	<4.0	<100
1,2,4-Trichlorobenzene	NL	<1.0	<1.0	<2.0	<5.0	<10.0	<10.0	<1.0	<25.0
1,2,4-Trimethylbenzene	NL	<1.0	<1.0	<2.0	<5.0	<10.0	<10.0	<1.0	<25.0
1,2-Dibromo-3-chloropropane	NL	<4.0	<4.0	<8.0	<20.0	<40.0	<40.0	<4.0	<100
1,2-Dibromoethane (EDB)	.004	<1.0	<1.0	<2.0	<5.0	<10.0	<10.0	<1.0	<25.0
1,2-Dichlorobenzene	600	<1.0	<1.0	<2.0	<5.0	<10.0	<10.0	<1.0	<25.0
1,2-Dichloroethane	4	<1.0	<1.0	<2.0	<5.0	<10.0	<10.0	<1.0	<25.0
1,2-Dichloropropane	5	<4.0	<4.0	<8.0	<20.0	<40.0	<40.0	<4.0	<25.0
1,3,5-Trimethylbenzene	100	<1.0	<1.0	<2.0	<5.0	<10.0	<10.0	<1.0	<25.0
1,3-Dichlorobenzene	NL	<1.0	<1.0	<2.0	<5.0	<10.0	<10.0	<1.0	<25.0
1,3-Dichloropropane	NL	<1.0	<1.0	<2.0	<5.0	<10.0	<10.0	<1.0	<25.0
1,4-Dichlorobenzene	10	<1.0	<1.0	<2.0	<5.0	<10.0	<10.0	<1.0	<25.0
2,2-Dichloropropane	NL	<4.0	<4.0	<8.0	<20.0	<40.0	<40.0	<4.0	<100
2-Butanone (MEK)	4000	<4.0	<4.0	<8.0	<20.0	<40.0	<40.0	<4.0	<100
2-Chlorotoluene	NL	<1.0	<1.0	<2.0	<5.0	<10.0	<10.0	<1.0	<25.0
4-Chlorotoluene	NL	<1.0	<1.0	<2.0	<5.0	<10.0	<10.0	<1.0	<25.0
4-Methyl-2-pentanone (MIBK)	300	<4.0	<4.0	<8.0	<20.0	<40.0	<40.0	<4.0	<100
Acetone	700	<25.0	<25.0	<50.0	<125	<250	<250	<25.0	<625
Allyl chloride	30	<4.0	<4.0	<8.0	<20.0	<40.0	<40.0	<4.0	<100
Benzene	2	<1.0	<1.0	<2.0	<5.0	<10.0	<10.0	<1.0	<25.0
Bromobenzene	NL	<1.0	<1.0	<2.0	<5.0	<10.0	<10.0	<1.0	<25.0
Bromochloromethane	NL	<1.0	<1.0	<2.0	<5.0	<10.0	<10.0	<1.0	<25.0
Bromodichloromethane	6	<1.0	<1.0	<2.0	<5.0	<10.0	<10.0	<1.0	<25.0
Bromoform	40	<4.0	<4.0	<8.0	<20.0	<40.0	<40.0	<4.0	<200
Bromomethane	10	<4.0	<4.0	<8.0	<20.0	<40.0	<40.0	<4.0	<250
Carbon tetrachloride	3	<1.0	<1.0	<2.0	<5.0	<10.0	<10.0	<1.0	<100
Chlorobenzene	100	<1.0	<1.0	<2.0	<5.0	<10.0	<10.0	<1.0	<25.0
Chloroethane	300	<1.0	<1.0	<2.0	<5.0	<10.0	<10.0	<1.0	<25.0
Chloroform	30	<1.0	<1.0	<2.0	<5.0	<10.0	<10.0	**3.1**	<25.0
Chloromethane	NL	<4.0	<4.0	<8.0	<20.0	<40.0	<40.0	<4.0	<100
cis-1,2-Dichloroethene	50	**1.8**	<1.0	<2.0	<5.0	<10.0	<10.0	**5.5**	<25.0
cis-1,3-Dichloropropene	NL	<4.0	<4.0	<8.0	<20.0	<40.0	<40.0	<4.0	<100
Dibromochloromethane	10	<1.0	<1.0	<2.0	<5.0	<10.0	<10.0	<1.0	<25.0
Dibromomethane	NL	<4.0	<4.0	<8.0	<20.0	<40.0	<40.0	<4.0	<100
Dichlorodifluoromethane	1000	<1.0	<1.0	<2.0	<5.0	<10.0	<10.0	<1.0	<25.0
Dichlorofluoromethane	NL	<1.0	<1.0	<2.0	<5.0	<10.0	<10.0	<1.0	<25.0
Diethyl ether (Ethyl ether)	1000	<4.0	<4.0	<8.0	<20.0	<40.0	<40.0	<4.0	<100
Ethylbenzene	700	<1.0	<1.0	<2.0	<5.0	<10.0	<10.0	<1.0	<25.0
Hexachloro-1,3-butadiene	1	<5.0	<5.0	<10.0	<25.0	<50.0	<50.0	<5.0	<100
Isopropylbenzene (Cumene)	300	<1.0	<1.0	<2.0	<5.0	<10.0	<10.0	<1.0	<25.0
m&p-Xylene	NL	<2.0	<2.0	<4.0	<10.0	<20.0	<20.0	<2.0	<50.0
Methylene Chloride	5	<4.0	<4.0	<8.0	<20.0	<40.0	<40.0	<4.0	<100
Methyl-tert-butyl ether	70	<1.0	<1.0	<2.0	<5.0	<10.0	<10.0	<1.0	<25.0
Naphthalene	300	<4.0	<4.0	<8.0	<20.0	<40.0	<40.0	<4.0	<100
n-Butylbenzene	NL	<1.0	<1.0	<2.0	<5.0	<10.0	<10.0	<1.0	<25.0
n-Propylbenzene	NL	<1.0	<1.0	<2.0	<5.0	<10.0	<10.0	<1.0	<25.0
o-Xylene	NL	<1.0	<1.0	<2.0	<5.0	<10.0	<10.0	<1.0	<25.0
p-Isopropyltoluene	NL	<1.0	<1.0	<2.0	<5.0	<10.0	<10.0	<1.0	<25.0
sec-Butylbenzene	NL	<1.0	<1.0	<2.0	<5.0	<10.0	<10.0	<1.0	<25.0
Styrene	NL	<1.0	<1.0	<2.0	<5.0	<10.0	<10.0	<1.0	<25.0
tert-Butylbenzene	NL	<1.0	<1.0	<2.0	<5.0	<10.0	<10.0	<1.0	<25.0
Tetrachloroethene	5	**746**	**39.0**	**206**	**511**	**890**	**2080**	**1680**	**2,990**
Tetrahydrofuran	100	<10.0	<10.0	<20.0	<50.0	<100	<100	<10.0	<250
Toluene	1000	<1.0	<1.0	<2.0	<5.0	<10.0	<10.0	<1.0	<25.0
trans-1,2-Dichloroethene	100	<1.0	<1.0	<2.0	<5.0	<40.0	<40.0	<4.0	<25.0
trans-1,3-Dichloropropene	NL	<4.0	<4.0	<8.0	<20.0	<40.0	<40.0	<4.0	<100
Trichloroethene	5	**1.6**	<1.0	<2.0	<5.0	<10.0	<10.0	**2.2**	<25.0
Trichlorofluoromethane	2000	<1.0	<1.0	<2.0	<5.0	<10.0	<10.0	<1.0	<25.0
Vinyl chloride	0.2	<0.40	<0.40	<0.80	<2.0	<4.0	<4.0	<0.40	<10.0
Xylene (Total)	10000	<3.0	<3.0	<6.0	<15.0	<30.0	<30.0	<3.0	<75.0

Notes:
NL: No Limit
NA*: Not Analyzed
NS: Not Sampled

1,620 Parameter detected above laboratory reporting limit
5.2 Parameter detected above MDH Health Risk Limit

TABLE 10

GROUNDWATER ANALYTICAL RESULTS (ug/L)
MN Bio Business Center
221 1st Avenue SW
Rochester, Minnesota

Sample ID / Collected Date and Time	MDH Health Risk Limits 5/09	DPE-2 12/22/10	DPE-2 08/18/10	DPE-2 05/13/10	DPE-2 02/22/10	DPE-2 11/17/2009	DPE-2 09/28/09	DPE-2 12/10/08
1,1,1,2-Tetrachloroethane	70	<50.0	<50.0	<1.0	<20.0	<100	<250	NA*
1,1,1-Trichloroethane	9000	<50.0	<50.0	**2.9**	<20.0	<100	<250	NA*
1,1,2,2-Tetrachloroethane	2	<50.0	<50.0	<1.0	<20.0	<100	<250	NA*
1,1,2-Trichloroethane	3	<50.0	<50.0	<1.0	<20.0	<100	<250	NA*
1,1,2-Trichlorotrifluoroethane	200000	**356**	**997**	**673**	**305**	**1,270**	**1,620**	NA*
1,1-Dichloroethane	70	<50.0	<50.0	<1.0	<20.0	<100	<250	NA*
1,1-Dichloroethene	6	<50.0	<50.0	<1.0	<20.0	<100	<250	<500
1,1-Dichloropropene	NL	<50.0	<50.0	<1.0	<20.0	<100	<250	NA*
1,2,3-Trichlorobenzene	NL	<50.0	<50.0	<1.0	<20.0	<100	<250	NA*
1,2,3-Trichloropropane	40	<50.0	<50.0	<1.0	<20.0	<100	<250	NA*
1,2,4-Trichlorobenzene	NL	<50.0	<50.0	<1.0	<20.0	<100	<250	NA*
1,2,4-Trimethylbenzene	NL	<50.0	<50.0	<1.0	<20.0	<100	<250	NA*
1,2-Dibromo-3-chloropropane	NL	<200	<200	<4.0	<80.0	<400	<1000	NA*
1,2-Dibromoethane (EDB)	.004	<50.0	<50.0	<1.0	<20.0	<100	<250	NA*
1,2-Dichlorobenzene	600	<50.0	<50.0	<1.0	<20.0	<100	<250	NA*
1,2-Dichloroethane	4	<50.0	<50.0	<1.0	<20.0	<100	<250	NA*
1,2-Dichloropropane	5	<50.0	<50.0	**1.3**	<20.0	<100	<250	NA*
1,3,5-Trimethylbenzene	100	<50.0	<50.0	<1.0	<20.0	<100	<250	NA*
1,3-Dichlorobenzene	NL	<50.0	<50.0	<1.0	<20.0	<100	<250	NA*
1,3-Dichloropropane	NL	<50.0	<50.0	<1.0	<20.0	<100	<250	NA*
1,4-Dichlorobenzene	10	<50.0	<50.0	<1.0	<20.0	<100	<250	NA*
2,2-Dichloropropane	NL	<200	<200	<4.0	<20.0	<400	<250	NA*
2-Butanone (MEK)	4000	<200	<200	<4.0	<80.0	<400	<1000	NA*
2-Chlorotoluene	NL	<50.0	<50.0	<1.0	<20.0	<100	<250	NA*
4-Chlorotoluene	NL	<50.0	<50.0	<1.0	<20.0	<100	<250	NA*
4-Methyl-2-pentanone (MIBK)	300	<200	<200	<4.0	<80.0	<400	<1000	NA*
Acetone	700	<500	<500	<10.0	<200	<1000	<2500	NA*
Allyl chloride	30	<200	<200	<4.0	<80.0	<400	<1000	NA*
Benzene	2	<50.0	<50.0	<1.0	<20.0	<100	<250	NA*
Bromobenzene	NL	<50.0	<50.0	<1.0	<20.0	<100	<250	NA*
Bromochloromethane	NL	<50.0	<50.0	<1.0	<20.0	<100	<250	NA*
Bromodichloromethane	6	<50.0	<50.0	<1.0	<20.0	<100	<250	NA*
Bromoform	40	<400	<400	<8.0	<160	<800	<2000	NA*
Bromomethane	10	<200	<200	<4.0	<80.0	<400	<1000	NA*
Carbon tetrachloride	3	<200	<200	<4.0	<20.0	<400	<250	NA*
Chlorobenzene	100	<50.0	<50.0	<1.0	<20.0	<100	<250	NA*
Chloroethane	300	<50.0	<50.0	<1.0	<20.0	<100	<250	NA*
Chloroform	30	<50.0	<50.0	**3.7**	<20.0	<100	<250	NA*
Chloromethane	NL	<200	<200	<4.0	<80.0	<400	<1000	NA*
cis-1,2-Dichloroethene	50	<50.0	<50.0	**25.8**	<20.0	<100	<250	<500
cis-1,3-Dichloropropene	NL	<200	<200	<4.0	<80.0	<400	<1000	NA*
Dibromochloromethane	10	<50.0	<50.0	<1.0	<20.0	<100	<250	NA*
Dibromomethane	NL	<200	<200	<4.0	<20.0	<100	<250	NA*
Dichlorodifluoromethane	1000	<50.0	<50.0	<1.0	<20.0	<100	<250	NA*
Dichlorofluoromethane	NL	<50.0	<50.0	<1.0	<20.0	<100	<250	NA*
Diethyl ether (Ethyl ether)	1000	<200	<200	<4.0	<80.0	<400	<1000	NA*
Ethylbenzene	700	<50.0	<50.0	<1.0	<20.0	<100	<250	NA*
Hexachloro-1,3-butadiene	1	<200	<200	<4.0	<80.0	<400	<1000	NA*
Isopropylbenzene (Cumene)	300	<50.0	<50.0	<1.0	<20.0	<100	<250	NA*
m&p-Xylene	NL	<100	<100	<2.0	<40.0	<200	<500	NA*
Methylene Chloride	5	<200	<200	<4.0	<80.0	<400	<1000	NA*
Methyl-tert-butyl ether	70	<50.0	<50.0	<1.0	<20.0	<100	<250	NA*
Naphthalene	300	<200	<200	<4.0	<80.0	<400	<1000	NA*
n-Butylbenzene	NL	<50.0	<50.0	<1.0	<20.0	<100	<250	NA*
n-Propylbenzene	NL	<50.0	<50.0	<1.0	<20.0	<100	<250	NA*
o-Xylene	NL	<50.0	<50.0	<1.0	<20.0	<100	<250	NA*
p-Isopropyltoluene	NL	<50.0	<50.0	<1.0	<20.0	<100	<250	NA*
sec-Butylbenzene	NL	<50.0	<50.0	<1.0	<20.0	<100	<250	NA*
Styrene	NL	<50.0	<50.0	<1.0	<20.0	<100	<250	NA*
tert-Butylbenzene	NL	<50.0	<50.0	<1.0	<20.0	<100	<250	NA*
Tetrachloroethene	5	**4,690**	**12,100**	**5,800**	**2,710**	**10,600**	**32,000**	**38,200**
Tetrahydrofuran	100	<500	<500	<10.0	<200	<1000	<2500	NA*
Toluene	1000	<50.0	<50.0	<1.0	<20.0	<100	<250	NA*
trans-1,2-Dichloroethene	100	<50.0	<50.0	<1.0	<20.0	<100	<250	<500
trans-1,3-Dichloropropene	NL	<200	<200	<4.0	<80.0	<400	<1000	NA*
Trichloroethene	5	<50.0	<50.0	**7.5**	<20.0	<100	<250	<500
Trichlorofluoromethane	2000	<50.0	<50.0	<1.0	<20.0	<100	<250	NA*
Vinyl chloride	0.2	<20.0	<20.0	<0.40	<8.0	<40.0	<100	<200
Xylene (Total)	10000	<150	<150	<3.0	<60.0	<300	<750	NA*

Notes:
NL: No Limit
NA*: Not Analyzed
NS: Not Sampled

1,620 Parameter detected above laboratory reporting limit
5.2 Parameter detected above MDH Health Risk Limit

TABLE 10

GROUNDWATER ANALYTICAL RESULTS (ug/L)
MN Bio Business Center
221 1st Avenue SW
Rochester, Minnesota

Sample ID	MDH Health Risk Limits 5/09	DPE-3	DPE-3	DPE-3	DPE-3	DPE-3	DPE-3	DPE-3	DPE-3
Collected Date and Time		12/19/12	09/26/12	05/17/12	02/16/12	11/21/11	08/28/11	05/19/11	03/01/11
1,1,1,2-Tetrachloroethane	70	<1.0	<1.0	<20.0	<10.0	<25.0	<25.0	<20.0	<10.0
1,1,1-Trichloroethane	9000	**4.2**	<1.0	<20.0	<10.0	<25.0	<25.0	<20.0	<10.0
1,1,2,2-Tetrachloroethane	2	<1.0	<1.0	<20.0	<10.0	<25.0	<25.0	<20.0	<10.0
1,1,2-Trichloroethane	3	<1.0	<1.0	<20.0	<10.0	<25.0	<25.0	<20.0	<10.0
1,1,2-Trichlorotrifluoroethane	200000	**232**	**2.7**	**414**	**251**	**787**	**348**	**343**	**1030**
1,1-Dichloroethane	70	<1.0	<1.0	<20.0	<10.0	<25.0	<25.0	<20.0	<10.0
1,1-Dichloroethene	6	<1.0	<1.0	<20.0	<10.0	<25.0	<25.0	<20.0	<10.0
1,1-Dichloropropene	NL	<1.0	<1.0	<20.0	<10.0	<25.0	<25.0	<20.0	<10.0
1,2,3-Trichlorobenzene	NL	<1.0	<1.0	<20.0	<10.0	<25.0	<25.0	<20.0	<10.0
1,2,3-Trichloropropane	40	<4.0	<4.0	<80.0	<40.0	<100	<100	<80.0	<40.0
1,2,4-Trichlorobenzene	NL	<1.0	<1.0	<20.0	<10.0	<25.0	<25.0	<20.0	<10.0
1,2,4-Trimethylbenzene	NL	<1.0	<1.0	<20.0	<10.0	<25.0	<25.0	<20.0	<10.0
1,2-Dibromo-3-chloropropane	NL	<4.0	<4.0	<80.0	<40.0	<100	<100	<80.0	<40.0
1,2-Dibromoethane (EDB)	.004	<1.0	<1.0	<20.0	<10.0	<25.0	<25.0	<20.0	<10.0
1,2-Dichlorobenzene	600	<1.0	<1.0	<20.0	<10.0	<25.0	<25.0	<20.0	<10.0
1,2-Dichloroethane	4	<1.0	<1.0	<20.0	<10.0	<25.0	<25.0	<20.0	<10.0
1,2-Dichloropropane	5	<4.0	<4.0	<80.0	<40.0	<100	<100	<80.0	<10.0
1,3,5-Trimethylbenzene	100	<1.0	<1.0	<20.0	<10.0	<25.0	<25.0	<20.0	<10.0
1,3-Dichlorobenzene	NL	<1.0	<1.0	<20.0	<10.0	<25.0	<25.0	<20.0	<10.0
1,3-Dichloropropane	NL	<1.0	<1.0	<20.0	<10.0	<25.0	<25.0	<20.0	<10.0
1,4-Dichlorobenzene	10	<1.0	<1.0	<20.0	<10.0	<25.0	<25.0	<20.0	<10.0
2,2-Dichloropropane	NL	<4.0	<4.0	<80.0	<40.0	<100	<100	<80.0	<40.0
2-Butanone (MEK)	4000	<4.0	<4.0	<80.0	<40.0	<100	<100	<80.0	<40.0
2-Chlorotoluene	NL	<1.0	<1.0	<20.0	<10.0	<25.0	<25.0	<20.0	<10.0
4-Chlorotoluene	NL	<1.0	<1.0	<20.0	<10.0	<25.0	<25.0	<20.0	<10.0
4-Methyl-2-pentanone (MIBK)	300	<4.0	<4.0	<80.0	<40.0	<100	<100	<80.0	<40.0
Acetone	700	<25.0	<25.0	<500	<250	<625	<625	<500	<250
Allyl chloride	30	<4.0	<4.0	<80.0	<40.0	<100	<100	<80.0	<40.0
Benzene	2	<1.0	<1.0	<20.0	<10.0	<25.0	<25.0	<20.0	<10.0
Bromobenzene	NL	<1.0	<1.0	<20.0	<10.0	<25.0	<25.0	<20.0	<10.0
Bromochloromethane	NL	<1.0	<1.0	<20.0	<10.0	<25.0	<25.0	<20.0	<10.0
Bromodichloromethane	6	<1.0	<1.0	<20.0	<10.0	<25.0	<25.0	<20.0	<10.0
Bromoform	40	<4.0	<4.0	<80.0	<40.0	<100	<100	<80.0	<80.0
Bromomethane	10	<4.0	<4.0	<80.0	<40.0	<100	<100	<80.0	<40.0
Carbon tetrachloride	3	<1.0	<1.0	<20.0	<10.0	<25.0	<25.0	<20.0	<40.0
Chlorobenzene	100	<1.0	<1.0	<20.0	<10.0	<25.0	<25.0	<20.0	<10.0
Chloroethane	300	<1.0	<1.0	<20.0	<10.0	<25.0	<25.0	<20.0	<10.0
Chloroform	30	**2.6**	<1.0	<20.0	<10.0	<25.0	<25.0	<20.0	<10.0
Chloromethane	NL	<4.0	<4.0	<80.0	<40.0	<100	<100	<80.0	<40.0
cis-1,2-Dichloroethene	50	**25.0**	<1.0	<20.0	<10.0	<25.0	<25.0	<20.0	**19.6**
cis-1,3-Dichloropropene	NL	<4.0	<4.0	<80.0	<40.0	<100	<100	<80.0	<40.0
Dibromochloromethane	10	<1.0	<1.0	<20.0	<10.0	<25.0	<25.0	<20.0	<10.0
Dibromomethane	NL	<4.0	<4.0	<80.0	<40.0	<100	<100	<80.0	<40.0
Dichlorodifluoromethane	1000	<1.0	<1.0	<20.0	<10.0	<25.0	<25.0	<20.0	<10.0
Dichlorofluoromethane	NL	<1.0	<1.0	<20.0	<10.0	<25.0	<25.0	<20.0	<10.0
Diethyl ether (Ethyl ether)	1000	<4.0	<4.0	<80.0	<40.0	<100	<100	<80.0	<40.0
Ethylbenzene	700	<1.0	<1.0	<20.0	<10.0	<25.0	<25.0	<20.0	<10.0
Hexachloro-1,3-butadiene	1	<5.0	<5.0	<100	<50.0	<125	<125	<100	<40.0
Isopropylbenzene (Cumene)	300	<1.0	<1.0	<20.0	<10.0	<25.0	<25.0	<20.0	<10.0
m&p-Xylene	NL	<2.0	<2.0	<40.0	<20.0	<50.0	<50.0	<40.0	<20.0
Methylene Chloride	5	<4.0	<4.0	<80.0	<40.0	<100	<100	<80.0	<40.0
Methyl-tert-butyl ether	70	<1.0	<1.0	<20.0	<10.0	<25.0	<25.0	<20.0	<10.0
Naphthalene	300	<4.0	<4.0	<80.0	<40.0	<100	<100	<80.0	<40.0
n-Butylbenzene	NL	<1.0	<1.0	<20.0	<10.0	<25.0	<25.0	<20.0	<10.0
n-Propylbenzene	NL	<1.0	<1.0	<20.0	<10.0	<25.0	<25.0	<20.0	<10.0
o-Xylene	NL	<1.0	<1.0	<20.0	<10.0	<25.0	<25.0	<20.0	<10.0
p-Isopropyltoluene	NL	<1.0	<1.0	<20.0	<10.0	<25.0	<25.0	<20.0	<10.0
sec-Butylbenzene	NL	<1.0	<1.0	<20.0	<10.0	<25.0	<25.0	<20.0	<10.0
Styrene	NL	<1.0	<1.0	<20.0	<10.0	<25.0	<25.0	<20.0	<10.0
tert-Butylbenzene	NL	<1.0	<1.0	<20.0	<10.0	<25.0	<25.0	<20.0	<10.0
Tetrachloroethene	5	**5670**	**74.8**	**3690**	**1010**	**5310**	**4260**	**3220**	**12,700**
Tetrahydrofuran	100	<10.0	<10.0	<200	<100	<250	<250	<200	<100
Toluene	1000	<1.0	<1.0	<20.0	<10.0	<25.0	<25.0	<20.0	<10.0
trans-1,2-Dichloroethene	100	<1.0	<1.0	<20.0	<10.0	<100	<100	<80.0	<10.0
trans-1,3-Dichloropropene	NL	<4.0	<4.0	<80.0	<40.0	<100	<100	<80.0	<40.0
Trichloroethene	5	**10.4**	<1.0	<20.0	<10.0	<25.0	<25.0	<20.0	**12.3**
Trichlorofluoromethane	2000	<1.0	<1.0	<20.0	<10.0	<25.0	<25.0	<20.0	<10.0
Vinyl chloride	0.2	<0.40	<0.40	<8.0	<4.0	<10.0	<10.0	<8.0	<4.0
Xylene (Total)	10000	<3.0	<3.0	<60.0	<30.0	<75.0	<75.0	<60.0	<30.0

Notes:
NL: No Limit
NA*: Not Analyzed
NS: Not Sampled

1,620 Parameter detected above laboratory reporting limit
5.2 Parameter detected above MDH Health Risk Limit

TABLE 10

GROUNDWATER ANALYTICAL RESULTS (ug/L)
MN Bio Business Center
221 1st Avenue SW
Rochester, Minnesota

Sample ID Collected Date and Time	MDH Health Risk Limits 5/09	DPE-3 12/22/10	DPE-3 08/18/10	DPE-3 05/13/10	DPE-3 02/22/10	DPE-3 11/17/09	DPE-3 09/28/09	DPE-3 12/10/08
1,1,1,2-Tetrachloroethane	70	<10.0	<20.0	<1.0	<10.0	<200	<200	NA*
1,1,1-Trichloroethane	9000	<10.0	<20.0	<1.0	<10.0	<200	<200	NA*
1,1,2,2-Tetrachloroethane	2	<10.0	<20.0	<1.0	<10.0	<200	<200	NA*
1,1,2-Trichloroethane	3	<10.0	<20.0	<1.0	<10.0	<200	<200	NA*
1,1,2-Trichlorotrifluoroethane	200000	**78.8**	**2,260**	**49.5**	**67.1**	**1,920**	**843**	NA*
1,1-Dichloroethane	70	<10.0	<20.0	<1.0	<10.0	<200	<200	NA*
1,1-Dichloroethene	6	<10.0	<20.0	<1.0	<10.0	<200	<200	<500
1,1-Dichloropropene	NL	<10.0	<20.0	<1.0	<10.0	<200	<200	NA*
1,2,3-Trichlorobenzene	NL	<10.0	<20.0	<1.0	<10.0	<200	<200	NA*
1,2,3-Trichloropropane	40	<10.0	<20.0	<1.0	<10.0	<200	<200	NA*
1,2,4-Trichlorobenzene	NL	<10.0	<20.0	<1.0	<10.0	<200	<200	NA*
1,2,4-Trimethylbenzene	NL	<10.0	<20.0	<1.0	<10.0	<200	<200	NA*
1,2-Dibromo-3-chloropropane	NL	<40.0	<80.0	<4.0	<40.0	<800	<800	NA*
1,2-Dibromoethane (EDB)	.004	<10.0	<20.0	<1.0	<10.0	<200	<200	NA*
1,2-Dichlorobenzene	600	<10.0	<20.0	<1.0	<10.0	<200	<200	NA*
1,2-Dichloroethane	4	<10.0	<20.0	<1.0	<10.0	<200	<200	NA*
1,2-Dichloropropane	5	<10.0	<20.0	<1.0	<10.0	<200	<200	NA*
1,3,5-Trimethylbenzene	100	<10.0	<20.0	<1.0	<10.0	<200	<200	NA*
1,3-Dichlorobenzene	NL	<10.0	<20.0	<1.0	<10.0	<200	<200	NA*
1,3-Dichloropropane	NL	<10.0	<20.0	<1.0	<10.0	<200	<200	NA*
1,4-Dichlorobenzene	10	<10.0	<20.0	<1.0	<10.0	<200	<200	NA*
2,2-Dichloropropane	NL	<40.0	<80.0	<4.0	<10.0	<800	<200	NA*
2-Butanone (MEK)	4000	<40.0	<80.0	<4.0	<40.0	<800	<800	NA*
2-Chlorotoluene	NL	<10.0	<20.0	<1.0	<10.0	<200	<200	NA*
4-Chlorotoluene	NL	<10.0	<20.0	<1.0	<10.0	<200	<200	NA*
4-Methyl-2-pentanone (MIBK)	300	<40.0	<80.0	<4.0	<40.0	<800	<800	NA*
Acetone	700	<100	<200	<10.0	<100	<2000	<2000	NA*
Allyl chloride	30	<40.0	<80.0	<4.0	<40.0	<800	<800	NA*
Benzene	2	<10.0	<20.0	<1.0	<10.0	<200	<200	NA*
Bromobenzene	NL	<10.0	<20.0	<1.0	<10.0	<200	<200	NA*
Bromochloromethane	NL	<10.0	<20.0	<1.0	<10.0	<200	<200	NA*
Bromodichloromethane	6	<10.0	<20.0	<1.0	<10.0	<200	<200	NA*
Bromoform	40	<80.0	<160	<8.0	<80.0	<1600	<1600	NA*
Bromomethane	10	<40.0	<80.0	<4.0	<40.0	<800	<800	NA*
Carbon tetrachloride	3	<40.0	<80.0	<4.0	<10.0	<800	<200	NA*
Chlorobenzene	100	<10.0	<20.0	<1.0	<10.0	<200	<200	NA*
Chloroethane	300	<10.0	<20.0	<1.0	<10.0	<200	<200	NA*
Chloroform	30	<10.0	<20.0	<1.0	<10.0	<200	<200	NA*
Chloromethane	NL	<40.0	<80.0	<4.0	<40.0	<800	<800	NA*
cis-1,2-Dichloroethene	50	<10.0	**59.2**	**2.6**	<10.0	<200	<200	**1,090**
cis-1,3-Dichloropropene	NL	<40.0	<80.0	<4.0	<40.0	<800	<800	NA*
Dibromochloromethane	10	<10.0	<20.0	<1.0	<10.0	<200	<200	NA*
Dibromomethane	NL	<40.0	<80.0	<4.0	<10.0	<200	<200	NA*
Dichlorodifluoromethane	1000	<10.0	<20.0	<1.0	<10.0	<200	<200	NA*
Dichlorofluoromethane	NL	<10.0	<20.0	<1.0	<10.0	<200	<200	NA*
Diethyl ether (Ethyl ether)	1000	<40.0	<80.0	<4.0	<40.0	<800	<800	NA*
Ethylbenzene	700	<10.0	<20.0	<1.0	<10.0	<200	<200	NA*
Hexachloro-1,3-butadiene	1	<40.0	<80.0	<4.0	<40.0	<800	<800	NA*
Isopropylbenzene (Cumene)	300	<10.0	<20.0	<1.0	<10.0	<200	<200	NA*
m&p-Xylene	NL	<20.0	<40.0	<2.0	<20.0	<400	<400	NA*
Methylene Chloride	5	<40.0	<80.0	<4.0	<40.0	<800	<800	NA*
Methyl-tert-butyl ether	70	<10.0	<20.0	<1.0	<10.0	<200	<200	NA*
Naphthalene	300	<40.0	<80.0	<4.0	<40.0	<800	<800	NA*
n-Butylbenzene	NL	<10.0	<20.0	<1.0	<10.0	<200	<200	NA*
n-Propylbenzene	NL	<10.0	<20.0	<1.0	<10.0	<200	<200	NA*
o-Xylene	NL	<10.0	<20.0	<1.0	<10.0	<200	<200	NA*
p-Isopropyltoluene	NL	<10.0	<20.0	<1.0	<10.0	<200	<200	NA*
sec-Butylbenzene	NL	<10.0	<20.0	<1.0	<10.0	<200	<200	NA*
Styrene	NL	<10.0	<20.0	<1.0	<10.0	<200	<200	NA*
tert-Butylbenzene	NL	<10.0	<20.0	<1.0	<10.0	<200	<200	NA*
Tetrachloroethene	5	**1,450**	**20,400**	**2,240**	**806**	**34,600**	**20,300**	**152,000**
Tetrahydrofuran	100	<100	<200	**10.9**	<100	<2000	<2000	NA*
Toluene	1000	<10.0	<20.0	<1.0	<10.0	<200	<200	NA*
trans-1,2-Dichloroethene	100	<10.0	<20.0	<1.0	<10.0	<200	<200	<500
trans-1,3-Dichloropropene	NL	<40.0	<80.0	<4.0	<40.0	<800	<800	NA*
Trichloroethene	5	<10.0	**22.8**	<1.0	<10.0	<200	<200	<500
Trichlorofluoromethane	2000	<10.0	<20.0	<1.0	<10.0	<200	<200	NA*
Vinyl chloride	0.2	<4.0	<8.0	<0.40	<4.0	<80.0	<80.0	<200
Xylene (Total)	10000	<30.0	<60.0	<3.0	<30.0	<600	<600	NA*

Notes:
NL: No Limit
NA*: Not Analyzed
NS: Not Sampled

1,620 Parameter detected above laboratory reporting limit
5.2 Parameter detected above MDH Health Risk Limit

TABLE 10

GROUNDWATER ANALYTICAL RESULTS (ug/L)
MN Bio Business Center
221 1st Avenue SW
Rochester, Minnesota

Sample ID Collected Date and Time	MDH Health Risk Limits 5/09	DPE-4 12/19/12	DPE-4 09/26/12	DPE-4 05/17/12	DPE-4 02/16/12	DPE-4 11/21/11	DPE-4 08/28/11	DPE-4 05/19/11	DPE-4 03/01/11
1,1,1,2-Tetrachloroethane	70	<1.0	<1.0	<2.0	<5.0	<5.0	<5.0	<2.0	<10.0
1,1,1-Trichloroethane	9000	**1.1**	<1.0	<2.0	<5.0	<5.0	<5.0	<2.0	<10.0
1,1,2,2-Tetrachloroethane	2	<1.0	<1.0	<2.0	<5.0	<5.0	<5.0	<2.0	<10.0
1,1,2-Trichloroethane	3	<1.0	<1.0	<2.0	<5.0	<5.0	<5.0	<2.0	<10.0
1,1,2-Trichlorotrifluoroethane	200000	**141**	**9.7**	**9.5**	**54.4**	**99.7**	**93.8**	**60.2**	**127**
1,1-Dichloroethane	70	<1.0	<1.0	<2.0	<5.0	<5.0	<5.0	<2.0	<10.0
1,1-Dichloroethene	6	<1.0	<1.0	<2.0	<5.0	<5.0	<5.0	<2.0	<10.0
1,1-Dichloropropene	NL	<1.0	<1.0	<2.0	<5.0	<5.0	<5.0	<2.0	<10.0
1,2,3-Trichlorobenzene	NL	<1.0	<1.0	<2.0	<5.0	<5.0	<5.0	<2.0	<10.0
1,2,3-Trichloropropane	40	<4.0	<4.0	<8.0	<20.0	<20.0	<20.0	<8.0	<40.0
1,2,4-Trichlorobenzene	NL	<1.0	<1.0	<2.0	<5.0	<5.0	<5.0	<2.0	<10.0
1,2,4-Trimethylbenzene	NL	<1.0	<1.0	<2.0	<5.0	<5.0	<5.0	<2.0	<10.0
1,2-Dibromo-3-chloropropane	NL	<4.0	<4.0	<8.0	<20.0	<20.0	<20.0	<8.0	<40.0
1,2-Dibromoethane (EDB)	.004	<1.0	<1.0	<2.0	<5.0	<5.0	<5.0	<2.0	<10.0
1,2-Dichlorobenzene	600	<1.0	<1.0	<2.0	<5.0	<5.0	<5.0	<2.0	<10.0
1,2-Dichloroethane	4	<1.0	<1.0	<2.0	<5.0	<5.0	<5.0	<2.0	<10.0
1,2-Dichloropropane	5	<4.0	<4.0	<8.0	<20.0	<20.0	<20.0	<8.0	<10.0
1,3,5-Trimethylbenzene	100	<1.0	<1.0	<2.0	<5.0	<5.0	<5.0	<2.0	<10.0
1,3-Dichlorobenzene	NL	<1.0	<1.0	<2.0	<5.0	<5.0	<5.0	<2.0	<10.0
1,3-Dichloropropane	NL	<1.0	<1.0	<2.0	<5.0	<5.0	<5.0	<2.0	<10.0
1,4-Dichlorobenzene	10	<1.0	<1.0	<2.0	<5.0	<5.0	<5.0	<2.0	<10.0
2,2-Dichloropropane	NL	<4.0	<4.0	<8.0	<20.0	<20.0	<20.0	<8.0	<40.0
2-Butanone (MEK)	4000	<4.0	<4.0	<8.0	<20.0	<20.0	<20.0	<8.0	<40.0
2-Chlorotoluene	NL	<1.0	<1.0	<2.0	<5.0	<5.0	<5.0	<2.0	<10.0
4-Chlorotoluene	NL	<1.0	<1.0	<2.0	<5.0	<5.0	<5.0	<2.0	<10.0
4-Methyl-2-pentanone (MIBK)	300	<4.0	<4.0	<8.0	<20.0	<20.0	<20.0	<8.0	<40.0
Acetone	700	<25.0	<25.0	<50.0	<125	<125	<125	<50.0	<250
Allyl chloride	30	<4.0	<4.0	<8.0	<20.0	<20.0	<20.0	<8.0	<40.0
Benzene	2	<1.0	<1.0	<2.0	<5.0	<5.0	<5.0	<2.0	<10.0
Bromobenzene	NL	<1.0	<1.0	<2.0	<5.0	<5.0	<5.0	<2.0	<10.0
Bromochloromethane	NL	<1.0	<1.0	<2.0	<5.0	<5.0	<5.0	<2.0	<10.0
Bromodichloromethane	6	<1.0	<1.0	<2.0	<5.0	<5.0	<5.0	<2.0	<10.0
Bromoform	40	<4.0	<4.0	<8.0	<20.0	<20.0	<20.0	<8.0	<80.0
Bromomethane	10	<4.0	<4.0	<8.0	<20.0	<20.0	<20.0	<8.0	<100
Carbon tetrachloride	3	<1.0	<1.0	<2.0	<5.0	<5.0	<5.0	<2.0	<40.0
Chlorobenzene	100	<1.0	<1.0	<2.0	<5.0	<5.0	<5.0	<2.0	<10.0
Chloroethane	300	<1.0	<1.0	<2.0	<5.0	<5.0	<5.0	<2.0	<10.0
Chloroform	30	**1.3**	<1.0	<2.0	<5.0	<5.0	<5.0	<2.0	<10.0
Chloromethane	NL	<4.0	<4.0	<8.0	<20.0	<20.0	<20.0	<8.0	<40.0
cis-1,2-Dichloroethene	50	**5.1**	<1.0	<2.0	<5.0	<5.0	<5.0	<2.0	<10.0
cis-1,3-Dichloropropene	NL	<4.0	<4.0	<8.0	<20.0	<20.0	<20.0	<8.0	<40.0
Dibromochloromethane	10	<1.0	<1.0	<2.0	<5.0	<5.0	<5.0	<2.0	<10.0
Dibromomethane	NL	<4.0	<4.0	<8.0	<20.0	<20.0	<20.0	<8.0	<40.0
Dichlorodifluoromethane	1000	<1.0	<1.0	<2.0	<5.0	<5.0	<5.0	<2.0	<10.0
Dichlorofluoromethane	NL	<1.0	<1.0	<2.0	<5.0	<5.0	<5.0	<2.0	<10.0
Diethyl ether (Ethyl ether)	1000	<4.0	<4.0	<8.0	<20.0	<20.0	<20.0	<8.0	<40.0
Ethylbenzene	700	<1.0	<1.0	<2.0	<5.0	<5.0	<5.0	<2.0	<10.0
Hexachloro-1,3-butadiene	1	<5.0	<5.0	<10.0	<25.0	<25.0	<25.0	<10.0	<40.0
Isopropylbenzene (Cumene)	300	<1.0	<1.0	<2.0	<5.0	<5.0	<5.0	<2.0	<10.0
m&p-Xylene	NL	<2.0	<2.0	<4.0	<10.0	<10.0	<10.0	<4.0	<20.0
Methylene Chloride	5	<4.0	<4.0	<8.0	<20.0	<20.0	<20.0	<8.0	<40.0
Methyl-tert-butyl ether	70	<1.0	<1.0	<2.0	<5.0	<5.0	<5.0	<2.0	<10.0
Naphthalene	300	<4.0	<4.0	<8.0	<20.0	<20.0	<20.0	<8.0	<40.0
n-Butylbenzene	NL	<1.0	<1.0	<2.0	<5.0	<5.0	<5.0	<2.0	<10.0
n-Propylbenzene	NL	<1.0	<1.0	<2.0	<5.0	<5.0	<5.0	<2.0	<10.0
o-Xylene	NL	<1.0	<1.0	<2.0	<5.0	<5.0	<5.0	<2.0	<10.0
p-Isopropyltoluene	NL	<1.0	<1.0	<2.0	<5.0	<5.0	<5.0	<2.0	<10.0
sec-Butylbenzene	NL	<1.0	<1.0	<2.0	<5.0	<5.0	<5.0	<2.0	<10.0
Styrene	NL	<1.0	<1.0	<2.0	<5.0	<5.0	<5.0	<2.0	<10.0
tert-Butylbenzene	NL	<1.0	<1.0	<2.0	<5.0	<5.0	<5.0	<2.0	<10.0
Tetrachloroethene	5	**1410**	**187**	**223**	**830**	**763**	**771**	**367**	**1,160**
Tetrahydrofuran	100	<10.0	<10.0	<20.0	<50.0	<50.0	<50.0	<20.0	<100
Toluene	1000	<1.0	<1.0	<2.0	<5.0	<5.0	<5.0	<2.0	<10.0
trans-1,2-Dichloroethene	100	<1.0	<1.0	<2.0	<5.0	<20.0	<20.0	<8.0	<10.0
trans-1,3-Dichloropropene	NL	<4.0	<4.0	<8.0	<20.0	<20.0	<20.0	<8.0	<40.0
Trichloroethene	5	**2.2**	<1.0	<2.0	<5.0	<5.0	<5.0	<2.0	<10.0
Trichlorofluoromethane	2000	<1.0	<1.0	<2.0	<5.0	<5.0	<5.0	<2.0	<10.0
Vinyl chloride	0.2	<0.40	<0.40	<0.80	<2.0	<2.0	<2.0	<0.80	<4.0
Xylene (Total)	10000	<3.0	<3.0	<6.0	<15.0	<15.0	<15.0	<6.0	<30.0

Notes:
NL: No Limit
NA*: Not Analyzed
NS: Not Sampled

1,620 Parameter detected above laboratory reporting limit
5.2 Parameter detected above MDH Health Risk Limit

TABLE 10

GROUNDWATER ANALYTICAL RESULTS (ug/L)
MN Bio Business Center
221 1st Avenue SW
Rochester, Minnesota

Sample ID Collected Date and Time	MDH Health Risk Limits 5/09	DPE-4 12/22/10	DPE-4 08/18/10	DPE-4 05/13/10	DPE-4 02/22/10	DPE-4 11/17/09	DPE-4 09/28/09	DPE-4 12/10/08
1,1,1,2-Tetrachloroethane	70	<10.0	<5.0	<1.0	<5.0	<50.0	<50.0	NA*
1,1,1-Trichloroethane	9000	<10.0	<5.0	<1.0	<5.0	<50.0	<50.0	NA*
1,1,2,2-Tetrachloroethane	2	<10.0	<5.0	<1.0	<5.0	<50.0	<50.0	NA*
1,1,2-Trichloroethane	3	<10.0	<5.0	<1.0	<5.0	<50.0	<50.0	NA*
1,1,2-Trichlorotrifluoroethane	200000	**39.4**	**181**	**48.1**	**41.9**	**464**	**339**	NA*
1,1-Dichloroethane	70	<10.0	<5.0	<1.0	<5.0	<50.0	<50.0	NA*
1,1-Dichloroethene	6	<10.0	<5.0	<1.0	<5.0	<50.0	<50.0	<500
1,1-Dichloropropene	NL	<10.0	<5.0	<1.0	<5.0	<50.0	<50.0	NA*
1,2,3-Trichlorobenzene	NL	<10.0	<5.0	<1.0	<5.0	<50.0	<50.0	NA*
1,2,3-Trichloropropane	40	<10.0	<5.0	<1.0	<5.0	<50.0	<50.0	NA*
1,2,4-Trichlorobenzene	NL	<10.0	<5.0	<1.0	<5.0	<50.0	<50.0	NA*
1,2,4-Trimethylbenzene	NL	<10.0	<5.0	<1.0	<5.0	<50.0	<50.0	NA*
1,2-Dibromo-3-chloropropane	NL	<40.0	<20.0	<4.0	<20.0	<200	<200	NA*
1,2-Dibromoethane (EDB)	.004	<10.0	<5.0	<1.0	<5.0	<50.0	<50.0	NA*
1,2-Dichlorobenzene	600	<10.0	<5.0	<1.0	<5.0	<50.0	<50.0	NA*
1,2-Dichloroethane	4	<10.0	<5.0	<1.0	<5.0	<50.0	<50.0	NA*
1,2-Dichloropropane	5	<10.0	<5.0	<1.0	<5.0	<50.0	<50.0	NA*
1,3,5-Trimethylbenzene	100	<10.0	<5.0	<1.0	<5.0	<50.0	<50.0	NA*
1,3-Dichlorobenzene	NL	<10.0	<5.0	<1.0	<5.0	<50.0	<50.0	NA*
1,3-Dichloropropane	NL	<10.0	<5.0	<1.0	<5.0	<50.0	<50.0	NA*
1,4-Dichlorobenzene	10	<10.0	<5.0	<1.0	<5.0	<50.0	<50.0	NA*
2,2-Dichloropropane	NL	<40.0	<20.0	<4.0	<5.0	<200	<50.0	NA*
2-Butanone (MEK)	4000	<40.0	<20.0	<4.0	<20.0	<200	<200	NA*
2-Chlorotoluene	NL	<10.0	<5.0	<1.0	<5.0	<50.0	<50.0	NA*
4-Chlorotoluene	NL	<10.0	<5.0	<1.0	<5.0	<50.0	<50.0	NA*
4-Methyl-2-pentanone (MIBK)	300	<40.0	<20.0	<4.0	<20.0	<200	<200	NA*
Acetone	700	<100	<50.0	<10.0	<50.0	<500	<500	NA*
Allyl chloride	30	<40.0	<20.0	<4.0	<20.0	<200	<200	NA*
Benzene	2	<10.0	<5.0	<1.0	<5.0	<50.0	<50.0	NA*
Bromobenzene	NL	<10.0	<5.0	<1.0	<5.0	<50.0	<50.0	NA*
Bromochloromethane	NL	<10.0	<5.0	<1.0	<5.0	<50.0	<50.0	NA*
Bromodichloromethane	6	<10.0	<5.0	<1.0	<5.0	<50.0	<50.0	NA*
Bromoform	40	<80.0	<40.0	<8.0	<40.0	<400	<400	NA*
Bromomethane	10	<40.0	<20.0	<4.0	<20.0	<200	<200	NA*
Carbon tetrachloride	3	<40.0	<20.0	<4.0	<5.0	<200	<50.0	NA*
Chlorobenzene	100	<10.0	<5.0	<1.0	<5.0	<50.0	<50.0	NA*
Chloroethane	300	<10.0	<5.0	<1.0	<5.0	<50.0	<50.0	NA*
Chloroform	30	<10.0	<5.0	<1.0	<5.0	<50.0	<50.0	NA*
Chloromethane	NL	<40.0	<20.0	<4.0	<20.0	<200	<200	NA*
cis-1,2-Dichloroethene	50	<10.0	**20.7**	**1.1**	<5.0	<50.0	<50.0	<500
cis-1,3-Dichloropropene	NL	<40.0	<20.0	<4.0	<20.0	<200	<200	NA*
Dibromochloromethane	10	<10.0	<5.0	<1.0	<5.0	<50.0	<50.0	NA*
Dibromomethane	NL	<40.0	<20.0	<4.0	<5.0	<50.0	<50.0	NA*
Dichlorodifluoromethane	1000	<10.0	<5.0	<1.0	<5.0	<50.0	<50.0	NA*
Dichlorofluoromethane	NL	<10.0	<5.0	<1.0	<5.0	<50.0	<50.0	NA*
Diethyl ether (Ethyl ether)	1000	<40.0	<20.0	<4.0	<20.0	<200	<200	NA*
Ethylbenzene	700	<10.0	<5.0	<1.0	<5.0	<50.0	<50.0	NA*
Hexachloro-1,3-butadiene	1	<40.0	<20.0	<4.0	<20.0	<200	<200	NA*
Isopropylbenzene (Cumene)	300	<10.0	<5.0	<1.0	<5.0	<50.0	<50.0	NA*
m&p-Xylene	NL	<20.0	<10.0	<2.0	<10.0	<100	<100	NA*
Methylene Chloride	5	<40.0	<20.0	<4.0	<20.0	<200	<200	NA*
Methyl-tert-butyl ether	70	<10.0	<5.0	<1.0	<5.0	<50.0	<50.0	NA*
Naphthalene	300	<40.0	<20.0	<4.0	<20.0	<200	<200	NA*
n-Butylbenzene	NL	<10.0	<5.0	<1.0	<5.0	<50.0	<50.0	NA*
n-Propylbenzene	NL	<10.0	<5.0	<1.0	<5.0	<50.0	<50.0	NA*
o-Xylene	NL	<10.0	<5.0	<1.0	<5.0	<50.0	<50.0	NA*
p-Isopropyltoluene	NL	<10.0	<5.0	<1.0	<5.0	<50.0	<50.0	NA*
sec-Butylbenzene	NL	<10.0	<5.0	<1.0	<5.0	<50.0	<50.0	NA*
Styrene	NL	<10.0	<5.0	<1.0	<5.0	<50.0	<50.0	NA*
tert-Butylbenzene	NL	<10.0	<5.0	<1.0	<5.0	<50.0	<50.0	NA*
Tetrachloroethene	5	**1,100**	**2,600**	**357**	**429**	**5,040**	**7,340**	**35,600**
Tetrahydrofuran	100	<100	<50.0	<10.0	<50.0	<500	<500	NA*
Toluene	1000	<10.0	<5.0	<1.0	<5.0	<50.0	<50.0	NA*
trans-1,2-Dichloroethene	100	<10.0	<5.0	<1.0	<5.0	<50.0	<50.0	<500
trans-1,3-Dichloropropene	NL	<40.0	<20.0	<4.0	<20.0	<200	<200	NA*
Trichloroethene	5	<10.0	**7.1**	<1.0	<5.0	<50.0	<50.0	<500
Trichlorofluoromethane	2000	<10.0	<5.0	<1.0	<5.0	<50.0	<50.0	NA*
Vinyl chloride	0.2	<4.0	<2.0	<0.40	<2.0	<20.0	<20.0	<200
Xylene (Total)	10000	<30.0	<15.0	<3.0	<15.0	<150	<150	NA*

Notes:
NL: No Limit
NA*: Not Analyzed
NS: Not Sampled

1,620 Parameter detected above laboratory reporting limit
5.2 Parameter detected above MDH Health Risk Limit

TABLE 10

GROUNDWATER ANALYTICAL RESULTS (ug/L)
MN Bio Business Center
221 1st Avenue SW
Rochester, Minnesota

Sample ID	MDH Health Risk Limits 5/09	DPE-5	DPE-5	DPE-5	DPE-5	DPE-5	DPE-5	DPE-5	DPE-5
Collected Date and Time		12/19/12	09/26/12	05/17/12	02/16/12	11/21/11	08/28/11	05/19/11	03/01/11
1,1,1,2-Tetrachloroethane	70	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1,1-Trichloroethane	9000	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1,2,2-Tetrachloroethane	2	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1,2-Trichloroethane	3	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1,2-Trichlorotrifluoroethane	200000	**13.4**	**1.2**	<1.0	**2.2**	**3.0**	<1.0	**5.2**	**13.9**
1,1-Dichloroethane	70	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1-Dichloroethene	6	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1-Dichloropropene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2,3-Trichlorobenzene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2,3-Trichloropropane	40	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
1,2,4-Trichlorobenzene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2,4-Trimethylbenzene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-Dibromo-3-chloropropane	NL	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
1,2-Dibromoethane (EDB)	.004	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-Dichlorobenzene	600	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-Dichloroethane	4	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-Dichloropropane	5	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<1.0
1,3,5-Trimethylbenzene	100	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,3-Dichlorobenzene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,3-Dichloropropane	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,4-Dichlorobenzene	10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
2,2-Dichloropropane	NL	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
2-Butanone (MEK)	4000	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
2-Chlorotoluene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
4-Chlorotoluene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
4-Methyl-2-pentanone (MIBK)	300	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Acetone	700	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
Allyl chloride	30	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Benzene	2	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Bromobenzene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Bromochloromethane	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Bromodichloromethane	6	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Bromoform	40	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<8.0
Bromomethane	10	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Carbon tetrachloride	3	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<4.0
Chlorobenzene	100	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Chloroethane	300	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Chloroform	30	**1.5**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Chloromethane	NL	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
cis-1,2-Dichloroethene	50	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	**1.3**
cis-1,3-Dichloropropene	NL	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Dibromochloromethane	10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Dibromomethane	NL	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Dichlorodifluoromethane	1000	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Dichlorofluoromethane	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Diethyl ether (Ethyl ether)	1000	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Ethylbenzene	700	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Hexachloro-1,3-butadiene	1	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<4.0
Isopropylbenzene (Cumene)	300	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
m&p-Xylene	NL	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Methylene Chloride	5	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	**6.2**
Methyl-tert-butyl ether	70	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Naphthalene	300	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
n-Butylbenzene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
n-Propylbenzene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
o-Xylene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
p-Isopropyltoluene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
sec-Butylbenzene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Styrene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
tert-Butylbenzene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Tetrachloroethene	5	**74.1**	**16.4**	**11.1**	**69.5**	**51.2**	<1.0	**67.2**	**339**
Tetrahydrofuran	100	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
Toluene	1000	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
trans-1,2-Dichloroethene	100	<1.0	<1.0	<1.0	<1.0	<4.0	<4.0	<4.0	<1.0
trans-1,3-Dichloropropene	NL	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Trichloroethene	5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Trichlorofluoromethane	2000	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Vinyl chloride	0.2	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40
Xylene (Total)	10000	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0

Notes:
NL: No Limit
NA*: Not Analyzed
NS: Not Sampled

1,620 Parameter detected above laboratory reporting limit
5.2 Parameter detected above MDH Health Risk Limit

TABLE 10

GROUNDWATER ANALYTICAL RESULTS (ug/L)
MN Bio Business Center
221 1st Avenue SW
Rochester, Minnesota

Sample ID Collected Date and Time	MDH Health Risk Limits 5/09	DPE-5 12/22/10	DPE-5 08/18/10	DPE-5 05/13/10	DPE-5 02/22/10	DPE-5 11/17/09	DPE-5 09/24/09	DPE-5 12/10/08
1,1,1,2-Tetrachloroethane	70	<1.0	<1.0	<1.0	<5.0	<10.0	<10.0	NA*
1,1,1-Trichloroethane	9000	<1.0	<1.0	<1.0	<5.0	<10.0	<10.0	NA*
1,1,2,2-Tetrachloroethane	2	<1.0	<1.0	<1.0	<5.0	<10.0	<10.0	NA*
1,1,2-Trichloroethane	3	<1.0	<1.0	<1.0	<5.0	<10.0	<10.0	NA*
1,1,2-Trichlorotrifluoroethane	200000	<1.0	**11.5**	**16.9**	**19.4**	**498**	**37.9**	NA*
1,1-Dichloroethane	70	<1.0	<1.0	<1.0	<5.0	<10.0	<10.0	NA*
1,1-Dichloroethene	6	<1.0	<1.0	<1.0	<5.0	<10.0	<10.0	<10.0
1,1-Dichloropropene	NL	<1.0	<1.0	<1.0	<5.0	<10.0	<10.0	NA*
1,2,3-Trichlorobenzene	NL	<1.0	<1.0	<1.0	<5.0	<10.0	<10.0	NA*
1,2,3-Trichloropropane	40	<1.0	<1.0	<1.0	<5.0	<10.0	<10.0	NA*
1,2,4-Trichlorobenzene	NL	<1.0	<1.0	<1.0	<5.0	<10.0	<10.0	NA*
1,2,4-Trimethylbenzene	NL	<1.0	<1.0	<1.0	<5.0	<10.0	<10.0	NA*
1,2-Dibromo-3-chloropropane	NL	<4.0	<4.0	<4.0	<20.0	<40.0	<40.0	NA*
1,2-Dibromoethane (EDB)	.004	<1.0	<1.0	<1.0	<5.0	<10.0	<10.0	NA*
1,2-Dichlorobenzene	600	<1.0	<1.0	<1.0	<5.0	<10.0	<10.0	NA*
1,2-Dichloroethane	4	<1.0	<1.0	<1.0	<5.0	<10.0	<10.0	NA*
1,2-Dichloropropane	5	<1.0	<1.0	<1.0	<5.0	<10.0	<10.0	NA*
1,3,5-Trimethylbenzene	100	<1.0	<1.0	<1.0	<5.0	<10.0	<10.0	NA*
1,3-Dichlorobenzene	NL	<1.0	<1.0	<1.0	<5.0	<10.0	<10.0	NA*
1,3-Dichloropropane	NL	<1.0	<1.0	<1.0	<5.0	<10.0	<10.0	NA*
1,4-Dichlorobenzene	10	<1.0	<1.0	<1.0	<5.0	<10.0	<10.0	NA*
2,2-Dichloropropane	NL	<4.0	<4.0	<4.0	<5.0	<40.0	<10.0	NA*
2-Butanone (MEK)	4000	<4.0	<4.0	<4.0	<20.0	<40.0	<40.0	NA*
2-Chlorotoluene	NL	<1.0	<1.0	<1.0	<5.0	<10.0	<10.0	NA*
4-Chlorotoluene	NL	<1.0	<1.0	<1.0	<5.0	<10.0	<10.0	NA*
4-Methyl-2-pentanone (MIBK)	300	<4.0	<4.0	<4.0	<20.0	<40.0	<40.0	NA*
Acetone	700	<10.0	<10.0	<10.0	<50.0	<100	<100	NA*
Allyl chloride	30	<4.0	<4.0	<4.0	<20.0	<40.0	<40.0	NA*
Benzene	2	<1.0	<1.0	<1.0	<5.0	<10.0	<10.0	NA*
Bromobenzene	NL	<1.0	<1.0	<1.0	<5.0	<10.0	<10.0	NA*
Bromochloromethane	NL	<1.0	<1.0	<1.0	<5.0	<10.0	<10.0	NA*
Bromodichloromethane	6	<1.0	<1.0	<1.0	<5.0	<10.0	<10.0	NA*
Bromoform	40	<8.0	<8.0	<8.0	<40.0	<80.0	<80.0	NA*
Bromomethane	10	<4.0	<4.0	<4.0	<20.0	<40.0	<40.0	NA*
Carbon tetrachloride	3	<4.0	<4.0	<4.0	<5.0	<40.0	<10.0	NA*
Chlorobenzene	100	<1.0	<1.0	<1.0	<5.0	<10.0	<10.0	NA*
Chloroethane	300	<1.0	<1.0	<1.0	<5.0	<10.0	<10.0	NA*
Chloroform	30	<1.0	<1.0	<1.0	<5.0	<10.0	<10.0	NA*
Chloromethane	NL	<4.0	<4.0	<4.0	<20.0	<40.0	<40.0	NA*
cis-1,2-Dichloroethene	50	<1.0	**1.3**	**1.8**	<5.0	<10.0	<10.0	<10.0
cis-1,3-Dichloropropene	NL	<4.0	<4.0	<4.0	<20.0	<40.0	<40.0	NA*
Dibromochloromethane	10	<1.0	<1.0	<1.0	<5.0	<10.0	<10.0	NA*
Dibromomethane	NL	<4.0	<4.0	<4.0	<5.0	<10.0	<10.0	NA*
Dichlorodifluoromethane	1000	<1.0	<1.0	<1.0	<5.0	<10.0	<10.0	NA*
Dichlorofluoromethane	NL	<1.0	<1.0	<1.0	<5.0	<10.0	<10.0	NA*
Diethyl ether (Ethyl ether)	1000	<4.0	<4.0	<4.0	<20.0	<40.0	<40.0	NA*
Ethylbenzene	700	<1.0	<1.0	<1.0	<5.0	<10.0	<10.0	NA*
Hexachloro-1,3-butadiene	1	<4.0	<4.0	<4.0	<20.0	<40.0	<40.0	NA*
Isopropylbenzene (Cumene)	300	<1.0	<1.0	<1.0	<5.0	<10.0	<10.0	NA*
m&p-Xylene	NL	<2.0	<2.0	<2.0	<10.0	<20.0	<20.0	NA*
Methylene Chloride	5	<4.0	<4.0	<4.0	<20.0	<40.0	<40.0	NA*
Methyl-tert-butyl ether	70	<1.0	<1.0	<1.0	<5.0	<10.0	<10.0	NA*
Naphthalene	300	<4.0	<4.0	<4.0	<20.0	<40.0	<40.0	NA*
n-Butylbenzene	NL	<1.0	<1.0	<1.0	<5.0	<10.0	<10.0	NA*
n-Propylbenzene	NL	<1.0	<1.0	<1.0	<5.0	<10.0	<10.0	NA*
o-Xylene	NL	<1.0	<1.0	<1.0	<5.0	<10.0	<10.0	NA*
p-Isopropyltoluene	NL	<1.0	<1.0	<1.0	<5.0	<10.0	<10.0	NA*
sec-Butylbenzene	NL	<1.0	<1.0	<1.0	<5.0	<10.0	<10.0	NA*
Styrene	NL	<1.0	<1.0	<1.0	<5.0	<10.0	<10.0	NA*
tert-Butylbenzene	NL	<1.0	<1.0	<1.0	<5.0	<10.0	<10.0	NA*
Tetrachloroethene	5	**21.6**	**124**	**205**	**486**	**1,450**	**875**	**1,340**
Tetrahydrofuran	100	<10.0	<10.0	<10.0	<50.0	<100	<100	NA*
Toluene	1000	<1.0	<1.0	<1.0	<5.0	<10.0	<10.0	NA*
trans-1,2-Dichloroethene	100	<1.0	<1.0	<1.0	<5.0	<10.0	<10.0	<10.0
trans-1,3-Dichloropropene	NL	<4.0	<4.0	<4.0	<20.0	<40.0	<40.0	NA*
Trichloroethene	5	<1.0	<1.0	<1.0	<5.0	<10.0	<10.0	<10.0
Trichlorofluoromethane	2000	<1.0	<1.0	<1.0	<5.0	<10.0	<10.0	NA*
Vinyl chloride	0.2	<0.40	<0.40	<0.40	<2.0	<4.0	<4.0	<4.0
Xylene (Total)	10000	<3.0	<3.0	<3.0	<15.0	<30.0	<30.0	NA*

Notes:
NL: No Limit
NA*: Not Analyzed
NS: Not Sampled

1,620 Parameter detected above laboratory reporting limit
5.2 Parameter detected above MDH Health Risk Limit

TABLE 10

GROUNDWATER ANALYTICAL RESULTS (ug/L)
MN Bio Business Center
221 1st Avenue SW
Rochester, Minnesota

Sample ID	MDH Health Risk Limits 5/09	DPE-6	DPE-6	DPE-6	DPE-6	DPE-6	DPE-6	DPE-6	DPE-6
Collected Date and Time		12/19/12	09/26/12	05/17/12	02/16/12	11/21/11	08/28/11	05/19/11	03/01/11
1,1,1,2-Tetrachloroethane	70	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1,1-Trichloroethane	9000	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1,2,2-Tetrachloroethane	2	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1,2-Trichloroethane	3	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1,2-Trichlorotrifluoroethane	200000	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1-Dichloroethane	70	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1-Dichloroethene	6	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1-Dichloropropene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2,3-Trichlorobenzene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2,3-Trichloropropane	40	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
1,2,4-Trichlorobenzene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2,4-Trimethylbenzene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-Dibromo-3-chloropropane	NL	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
1,2-Dibromoethane (EDB)	.004	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-Dichlorobenzene	600	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-Dichloroethane	4	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-Dichloropropane	5	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<1.0
1,3,5-Trimethylbenzene	100	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,3-Dichlorobenzene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,3-Dichloropropane	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,4-Dichlorobenzene	10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
2,2-Dichloropropane	NL	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
2-Butanone (MEK)	4000	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
2-Chlorotoluene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
4-Chlorotoluene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
4-Methyl-2-pentanone (MIBK)	300	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Acetone	700	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
Allyl chloride	30	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Benzene	2	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Bromobenzene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Bromochloromethane	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Bromodichloromethane	6	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Bromoform	40	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<8.0
Bromomethane	10	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Carbon tetrachloride	3	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<4.0
Chlorobenzene	100	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Chloroethane	300	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Chloroform	30	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	**1.4**	**1.1**
Chloromethane	NL	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
cis-1,2-Dichloroethene	50	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
cis-1,3-Dichloropropene	NL	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Dibromochloromethane	10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Dibromomethane	NL	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Dichlorodifluoromethane	1000	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Dichlorofluoromethane	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Diethyl ether (Ethyl ether)	1000	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Ethylbenzene	700	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Hexachloro-1,3-butadiene	1	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<4.0
Isopropylbenzene (Cumene)	300	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
m&p-Xylene	NL	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Methylene Chloride	5	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	**7.3**
Methyl-tert-butyl ether	70	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Naphthalene	300	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
n-Butylbenzene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
n-Propylbenzene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
o-Xylene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
p-Isopropyltoluene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
sec-Butylbenzene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Styrene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
tert-Butylbenzene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Tetrachloroethene	5	**10.9**	**4.6**	<1.0	**44.8**	**1.9**	**7.7**	**23.4**	**3.9**
Tetrahydrofuran	100	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
Toluene	1000	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
trans-1,2-Dichloroethene	100	<1.0	<1.0	<1.0	<1.0	<4.0	<4.0	<4.0	<1.0
trans-1,3-Dichloropropene	NL	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Trichloroethene	5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Trichlorofluoromethane	2000	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Vinyl chloride	0.2	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40
Xylene (Total)	10000	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0

Notes:
NL: No Limit
NA*: Not Analyzed
NS: Not Sampled

1,620 Parameter detected above laboratory reporting limit
5.2 Parameter detected above MDH Health Risk Limit

TABLE 10

GROUNDWATER ANALYTICAL RESULTS (ug/L)
MN Bio Business Center
221 1st Avenue SW
Rochester, Minnesota

Sample ID Collected Date and Time	MDH Health Risk Limits 5/09	DPE-6 12/22/10	DPE-6 08/18/10	DPE-6 05/13/10	DPE-6 02/22/10	DPE-6 11/17/09	DPE-6 09/24/09	DPE-6 12/10/08
1,1,1,2-Tetrachloroethane	70	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
1,1,1-Trichloroethane	9000	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
1,1,2,2-Tetrachloroethane	2	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
1,1,2-Trichloroethane	3	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
1,1,2-Trichlorotrifluoroethane	200000	**1.5**	<1.0	<1.0	<1.0	<1.0	**3.5**	NA*
1,1-Dichloroethane	70	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
1,1-Dichloroethene	6	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0
1,1-Dichloropropene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
1,2,3-Trichlorobenzene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
1,2,3-Trichloropropane	40	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
1,2,4-Trichlorobenzene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
1,2,4-Trimethylbenzene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
1,2-Dibromo-3-chloropropane	NL	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	NA*
1,2-Dibromoethane (EDB)	.004	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
1,2-Dichlorobenzene	600	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
1,2-Dichloroethane	4	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
1,2-Dichloropropane	5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
1,3,5-Trimethylbenzene	100	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
1,3-Dichlorobenzene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
1,3-Dichloropropane	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
1,4-Dichlorobenzene	10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
2,2-Dichloropropane	NL	<4.0	<4.0	<4.0	<1.0	<4.0	<1.0	NA*
2-Butanone (MEK)	4000	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	NA*
2-Chlorotoluene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
4-Chlorotoluene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
4-Methyl-2-pentanone (MIBK)	300	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	NA*
Acetone	700	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	NA*
Allyl chloride	30	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	NA*
Benzene	2	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
Bromobenzene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
Bromochloromethane	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
Bromodichloromethane	6	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
Bromoform	40	<8.0	<8.0	<8.0	<8.0	<8.0	<8.0	NA*
Bromomethane	10	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	NA*
Carbon tetrachloride	3	<4.0	<4.0	<4.0	<1.0	<4.0	<1.0	NA*
Chlorobenzene	100	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
Chloroethane	300	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
Chloroform	30	**1.2**	**1.0**	**1.1**	**1.6**	**1.6**	<1.0	NA*
Chloromethane	NL	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	NA*
cis-1,2-Dichloroethene	50	<1.0	<1.0	<1.0	<1.0	**1.5**	<1.0	<2.0
cis-1,3-Dichloropropene	NL	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	NA*
Dibromochloromethane	10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
Dibromomethane	NL	<4.0	<4.0	<4.0	<1.0	<1.0	<1.0	NA*
Dichlorodifluoromethane	1000	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
Dichlorofluoromethane	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
Diethyl ether (Ethyl ether)	1000	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	NA*
Ethylbenzene	700	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
Hexachloro-1,3-butadiene	1	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	NA*
Isopropylbenzene (Cumene)	300	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
m&p-Xylene	NL	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	NA*
Methylene Chloride	5	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	NA*
Methyl-tert-butyl ether	70	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
Naphthalene	300	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	NA*
n-Butylbenzene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
n-Propylbenzene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
o-Xylene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
p-Isopropyltoluene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
sec-Butylbenzene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
Styrene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
tert-Butylbenzene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
Tetrachloroethene	5	**77.1**	**21.7**	**14.6**	**57.8**	**104**	**79.3**	**188**
Tetrahydrofuran	100	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	NA*
Toluene	1000	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
trans-1,2-Dichloroethene	100	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0
trans-1,3-Dichloropropene	NL	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	NA*
Trichloroethene	5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0
Trichlorofluoromethane	2000	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
Vinyl chloride	0.2	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.80
Xylene (Total)	10000	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	NA*

Notes:
NL: No Limit
NA*: Not Analyzed
NS: Not Sampled

1,620 Parameter detected above laboratory reporting limit
5.2 Parameter detected above MDH Health Risk Limit

TABLE 10

GROUNDWATER ANALYTICAL RESULTS (ug/L)
MN Bio Business Center
221 1st Avenue SW
Rochester, Minnesota

Sample ID	MDH Health Risk Limits 5/09	DPE-7	DPE-7	DPE-7	DPE-7	DPE-7	DPE-7	DPE-7	DPE-7
Collected Date and Time		12/19/12	09/26/12	05/17/12	02/16/12	11/21/11	08/28/11	05/19/11	03/01/11
1,1,1,2-Tetrachloroethane	70	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1,1-Trichloroethane	9000	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1,2,2-Tetrachloroethane	2	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1,2-Trichloroethane	3	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1,2-Trichlorotrifluoroethane	200000	<1.0	<1.0	<1.0	<1.0	<1.0	**3.8**	**1.8**	<1.0
1,1-Dichloroethane	70	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1-Dichloroethene	6	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1-Dichloropropene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2,3-Trichlorobenzene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2,3-Trichloropropane	40	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
1,2,4-Trichlorobenzene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2,4-Trimethylbenzene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-Dibromo-3-chloropropane	NL	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
1,2-Dibromoethane (EDB)	.004	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-Dichlorobenzene	600	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-Dichloroethane	4	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-Dichloropropane	5	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<1.0
1,3,5-Trimethylbenzene	100	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,3-Dichlorobenzene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,3-Dichloropropane	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,4-Dichlorobenzene	10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
2,2-Dichloropropane	NL	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
2-Butanone (MEK)	4000	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
2-Chlorotoluene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
4-Chlorotoluene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
4-Methyl-2-pentanone (MIBK)	300	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Acetone	700	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
Allyl chloride	30	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Benzene	2	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Bromobenzene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Bromochloromethane	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Bromodichloromethane	6	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Bromoform	40	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<8.0
Bromomethane	10	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Carbon tetrachloride	3	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<4.0
Chlorobenzene	100	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Chloroethane	300	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Chloroform	30	<1.0	<1.0	<1.0	<1.0	<1.0	**1.2**	**2.3**	**2.3**
Chloromethane	NL	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
cis-1,2-Dichloroethene	50	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
cis-1,3-Dichloropropene	NL	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Dibromochloromethane	10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Dibromomethane	NL	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Dichlorodifluoromethane	1000	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Dichlorofluoromethane	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Diethyl ether (Ethyl ether)	1000	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Ethylbenzene	700	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Hexachloro-1,3-butadiene	1	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<4.0
Isopropylbenzene (Cumene)	300	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
m&p-Xylene	NL	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Methylene Chloride	5	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	**6.6**
Methyl-tert-butyl ether	70	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Naphthalene	300	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
n-Butylbenzene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
n-Propylbenzene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
o-Xylene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
p-Isopropyltoluene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
sec-Butylbenzene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Styrene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
tert-Butylbenzene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Tetrachloroethene	5	**3.7**	<1.0	<1.0	**27.8**	<1.0	**26.9**	**15.9**	**7.1**
Tetrahydrofuran	100	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
Toluene	1000	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
trans-1,2-Dichloroethene	100	<1.0	<1.0	<1.0	<1.0	<4.0	<4.0	<4.0	<1.0
trans-1,3-Dichloropropene	NL	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Trichloroethene	5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Trichlorofluoromethane	2000	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Vinyl chloride	0.2	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40
Xylene (Total)	10000	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0

Notes:
NL: No Limit
NA*: Not Analyzed
NS: Not Sampled

1,620 Parameter detected above laboratory reporting limit
5.2 Parameter detected above MDH Health Risk Limit

TABLE 10

GROUNDWATER ANALYTICAL RESULTS (ug/L)
MN Bio Business Center
221 1st Avenue SW
Rochester, Minnesota

Sample ID / Collected Date and Time	MDH Health Risk Limits 5/09	DPE-7 12/22/10	DPE-7 08/18/10	DPE-7 05/13/10	DPE-7 02/22/10	DPE-7 11/17/09	DPE-7 09/24/09	DPE-7 12/10/08
1,1,1,2-Tetrachloroethane	70	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
1,1,1-Trichloroethane	9000	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
1,1,2,2-Tetrachloroethane	2	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
1,1,2-Trichloroethane	3	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
1,1,2-Trichlorotrifluoroethane	200000	**2.2**	**11.9**	**4.0**	**2.7**	**9.8**	**1.6**	NA*
1,1-Dichloroethane	70	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
1,1-Dichloroethene	6	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1-Dichloropropene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
1,2,3-Trichlorobenzene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
1,2,3-Trichloropropane	40	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
1,2,4-Trichlorobenzene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
1,2,4-Trimethylbenzene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
1,2-Dibromo-3-chloropropane	NL	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	NA*
1,2-Dibromoethane (EDB)	.004	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
1,2-Dichlorobenzene	600	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
1,2-Dichloroethane	4	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
1,2-Dichloropropane	5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
1,3,5-Trimethylbenzene	100	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
1,3-Dichlorobenzene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
1,3-Dichloropropane	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
1,4-Dichlorobenzene	10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
2,2-Dichloropropane	NL	<4.0	<4.0	<4.0	<1.0	<4.0	<1.0	NA*
2-Butanone (MEK)	4000	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	NA*
2-Chlorotoluene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
4-Chlorotoluene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
4-Methyl-2-pentanone (MIBK)	300	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	NA*
Acetone	700	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	NA*
Allyl chloride	30	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	NA*
Benzene	2	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
Bromobenzene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
Bromochloromethane	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
Bromodichloromethane	6	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
Bromoform	40	<8.0	<8.0	<8.0	<8.0	<8.0	<8.0	NA*
Bromomethane	10	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	NA*
Carbon tetrachloride	3	<4.0	<4.0	<4.0	<1.0	<4.0	<1.0	NA*
Chlorobenzene	100	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
Chloroethane	300	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
Chloroform	30	<1.0	**1.3**	**1.3**	**1.2**	**1.1**	**1.3**	NA*
Chloromethane	NL	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	NA*
cis-1,2-Dichloroethene	50	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
cis-1,3-Dichloropropene	NL	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	NA*
Dibromochloromethane	10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
Dibromomethane	NL	<4.0	<4.0	<4.0	<1.0	<1.0	<1.0	NA*
Dichlorodifluoromethane	1000	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
Dichlorofluoromethane	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
Diethyl ether (Ethyl ether)	1000	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	NA*
Ethylbenzene	700	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
Hexachloro-1,3-butadiene	1	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	NA*
Isopropylbenzene (Cumene)	300	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
m&p-Xylene	NL	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	NA*
Methylene Chloride	5	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	NA*
Methyl-tert-butyl ether	70	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
Naphthalene	300	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	NA*
n-Butylbenzene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
n-Propylbenzene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
o-Xylene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
p-Isopropyltoluene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
sec-Butylbenzene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
Styrene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
tert-Butylbenzene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
Tetrachloroethene	5	**23.2**	**189**	**25.7**	**7.3**	**55.2**	**5.2**	**22.3**
Tetrahydrofuran	100	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	NA*
Toluene	1000	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
trans-1,2-Dichloroethene	100	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
trans-1,3-Dichloropropene	NL	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	NA*
Trichloroethene	5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Trichlorofluoromethane	2000	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
Vinyl chloride	0.2	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40
Xylene (Total)	10000	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	NA*

Notes:
NL: No Limit
NA*: Not Analyzed
NS: Not Sampled

1,620 Parameter detected above laboratory reporting limit
5.2 Parameter detected above MDH Health Risk Limit

TABLE 10

GROUNDWATER ANALYTICAL RESULTS (ug/L)
MN Bio Business Center
221 1st Avenue SW
Rochester, Minnesota

Sample ID	MDH Health Risk Limits 5/09	DPE-8	DPE-8	DPE-8	DPE-8	DPE-8	DPE-8	DPE-8	DPE-8
Collected Date and Time		12/19/12	09/26/12	05/17/12	02/16/12	11/21/11	08/28/11	05/19/11	03/01/11
1,1,1,2-Tetrachloroethane	70	NS	NS	NS	NS	<5.0	<2.0	<5.0	<2.0
1,1,1-Trichloroethane	9000	NS	NS	NS	NS	<5.0	<2.0	<5.0	<2.0
1,1,2,2-Tetrachloroethane	2	NS	NS	NS	NS	<5.0	<2.0	<5.0	<2.0
1,1,2-Trichloroethane	3	NS	NS	NS	NS	<5.0	<2.0	<5.0	<2.0
1,1,2-Trichlorotrifluoroethane	200000	NS	NS	NS	NS	**62.0**	**32.4**	**77.9**	**48.7**
1,1-Dichloroethane	70	NS	NS	NS	NS	<5.0	<2.0	<5.0	<2.0
1,1-Dichloroethene	6	NS	NS	NS	NS	<5.0	<2.0	<5.0	<2.0
1,1-Dichloropropene	NL	NS	NS	NS	NS	<5.0	<2.0	<5.0	<2.0
1,2,3-Trichlorobenzene	NL	NS	NS	NS	NS	<5.0	<2.0	<5.0	<2.0
1,2,3-Trichloropropane	40	NS	NS	NS	NS	<20.0	<8.0	<20.0	<8.0
1,2,4-Trichlorobenzene	NL	NS	NS	NS	NS	<5.0	<2.0	<5.0	<2.0
1,2,4-Trimethylbenzene	NL	NS	NS	NS	NS	<5.0	<2.0	<5.0	<2.0
1,2-Dibromo-3-chloropropane	NL	NS	NS	NS	NS	<20.0	<8.0	<20.0	<8.0
1,2-Dibromoethane (EDB)	.004	NS	NS	NS	NS	<5.0	<2.0	<5.0	<2.0
1,2-Dichlorobenzene	600	NS	NS	NS	NS	<5.0	<2.0	<5.0	<2.0
1,2-Dichloroethane	4	NS	NS	NS	NS	<5.0	<2.0	<5.0	<2.0
1,2-Dichloropropane	5	NS	NS	NS	NS	<20.0	<8.0	<20.0	<2.0
1,3,5-Trimethylbenzene	100	NS	NS	NS	NS	<5.0	<2.0	<5.0	<2.0
1,3-Dichlorobenzene	NL	NS	NS	NS	NS	<5.0	<2.0	<5.0	<2.0
1,3-Dichloropropane	NL	NS	NS	NS	NS	<5.0	<2.0	<5.0	<2.0
1,4-Dichlorobenzene	10	NS	NS	NS	NS	<5.0	<2.0	<5.0	<2.0
2,2-Dichloropropane	NL	NS	NS	NS	NS	<20.0	<8.0	<20.0	<8.0
2-Butanone (MEK)	4000	NS	NS	NS	NS	<20.0	<8.0	<20.0	<8.0
2-Chlorotoluene	NL	NS	NS	NS	NS	<5.0	<2.0	<5.0	<2.0
4-Chlorotoluene	NL	NS	NS	NS	NS	<5.0	<2.0	<5.0	<2.0
4-Methyl-2-pentanone (MIBK)	300	NS	NS	NS	NS	<20.0	<8.0	<20.0	<8.0
Acetone	700	NS	NS	NS	NS	<125	<50.0	<125	<50.0
Allyl chloride	30	NS	NS	NS	NS	<20.0	<8.0	<20.0	<8.0
Benzene	2	NS	NS	NS	NS	<5.0	<2.0	<5.0	<2.0
Bromobenzene	NL	NS	NS	NS	NS	<5.0	<2.0	<5.0	<2.0
Bromochloromethane	NL	NS	NS	NS	NS	<5.0	<2.0	<5.0	<2.0
Bromodichloromethane	6	NS	NS	NS	NS	<5.0	<2.0	<5.0	<2.0
Bromoform	40	NS	NS	NS	NS	<20.0	<8.0	<20.0	<16.0
Bromomethane	10	NS	NS	NS	NS	<20.0	<8.0	<20.0	<8.0
Carbon tetrachloride	3	NS	NS	NS	NS	<5.0	<2.0	<5.0	<8.0
Chlorobenzene	100	NS	NS	NS	NS	<5.0	<2.0	<5.0	<2.0
Chloroethane	300	NS	NS	NS	NS	<5.0	<2.0	<5.0	<2.0
Chloroform	30	NS	NS	NS	NS	<5.0	<2.0	<5.0	<2.0
Chloromethane	NL	NS	NS	NS	NS	<20.0	<8.0	<20.0	<8.0
cis-1,2-Dichloroethene	50	NS	NS	NS	NS	<5.0	<2.0	<5.0	<2.0
cis-1,3-Dichloropropene	NL	NS	NS	NS	NS	<20.0	<8.0	<20.0	<8.0
Dibromochloromethane	10	NS	NS	NS	NS	<5.0	<2.0	<5.0	<2.0
Dibromomethane	NL	NS	NS	NS	NS	<20.0	<8.0	<20.0	<8.0
Dichlorodifluoromethane	1000	NS	NS	NS	NS	<5.0	<2.0	<5.0	<2.0
Dichlorofluoromethane	NL	NS	NS	NS	NS	<5.0	<2.0	<5.0	<2.0
Diethyl ether (Ethyl ether)	1000	NS	NS	NS	NS	<20.0	<8.0	<20.0	<8.0
Ethylbenzene	700	NS	NS	NS	NS	<5.0	<2.0	<5.0	<2.0
Hexachloro-1,3-butadiene	1	NS	NS	NS	NS	<25.0	<10.0	<25.0	<8.0
Isopropylbenzene (Cumene)	300	NS	NS	NS	NS	<5.0	<2.0	<5.0	<2.0
m&p-Xylene	NL	NS	NS	NS	NS	<10.0	<4.0	<10.0	<4.0
Methylene Chloride	5	NS	NS	NS	NS	<20.0	<8.0	<20.0	<8.0
Methyl-tert-butyl ether	70	NS	NS	NS	NS	<5.0	<2.0	<5.0	<2.0
Naphthalene	300	NS	NS	NS	NS	<20.0	<8.0	<20.0	<8.0
n-Butylbenzene	NL	NS	NS	NS	NS	<5.0	<2.0	<5.0	<2.0
n-Propylbenzene	NL	NS	NS	NS	NS	<5.0	<2.0	<5.0	<2.0
o-Xylene	NL	NS	NS	NS	NS	<5.0	<2.0	<5.0	<2.0
p-Isopropyltoluene	NL	NS	NS	NS	NS	<5.0	<2.0	<5.0	<2.0
sec-Butylbenzene	NL	NS	NS	NS	NS	<5.0	<2.0	<5.0	<2.0
Styrene	NL	NS	NS	NS	NS	<5.0	<2.0	<5.0	<2.0
tert-Butylbenzene	NL	NS	NS	NS	NS	<5.0	<2.0	<5.0	<2.0
Tetrachloroethene	5	NS	NS	NS	NS	**389**	**700**	**698**	**415**
Tetrahydrofuran	100	NS	NS	NS	NS	<50.0	<20.0	<50.0	<20.0
Toluene	1000	NS	NS	NS	NS	<5.0	<2.0	<5.0	<2.0
trans-1,2-Dichloroethene	100	NS	NS	NS	NS	<20.0	<8.0	<20.0	<2.0
trans-1,3-Dichloropropene	NL	NS	NS	NS	NS	<20.0	<8.0	<20.0	<8.0
Trichloroethene	5	NS	NS	NS	NS	<5.0	<2.0	<5.0	<2.0
Trichlorofluoromethane	2000	NS	NS	NS	NS	<5.0	<2.0	<5.0	<2.0
Vinyl chloride	0.2	NS	NS	NS	NS	<2.0	<0.80	<2.0	<0.80
Xylene (Total)	10000	NS	NS	NS	NS	<15.0	<6.0	<15.0	<6.0

Notes:
NL: No Limit
NA*: Not Analyzed
NS: Not Sampled

1,620 Parameter detected above laboratory reporting limit
5.2 Parameter detected above MDH Health Risk Limit

TABLE 10

GROUNDWATER ANALYTICAL RESULTS (ug/L)
MN Bio Business Center
221 1st Avenue SW
Rochester, Minnesota

Sample ID / Collected Date and Time	MDH Health Risk Limits 5/09	DPE-8 12/22/10	DPE-8 08/18/10	DPE-8 05/13/10	DPE-8 02/22/10	DPE-8 11/17/09	DPE-8 09/24/09	DPE-8 12/10/08
1,1,1,2-Tetrachloroethane	70	<1.0	<1.0	<1.0	<1.0	<10.0	<2.0	NA*
1,1,1-Trichloroethane	9000	<1.0	<1.0	<1.0	<1.0	<10.0	<2.0	NA*
1,1,2,2-Tetrachloroethane	2	<1.0	<1.0	<1.0	<1.0	<10.0	<2.0	NA*
1,1,2-Trichloroethane	3	<1.0	<1.0	<1.0	<1.0	<10.0	<2.0	NA*
1,1,2-Trichlorotrifluoroethane	200000	**33.5**	**5.9**	**2.2**	**3.8**	**34.2**	**43.4**	NA*
1,1-Dichloroethane	70	<1.0	<1.0	<1.0	<1.0	<10.0	<2.0	NA*
1,1-Dichloroethene	6	<1.0	<1.0	<1.0	<1.0	<10.0	<2.0	<100
1,1-Dichloropropene	NL	<1.0	<1.0	<1.0	<1.0	<10.0	<2.0	NA*
1,2,3-Trichlorobenzene	NL	<1.0	<1.0	<1.0	<1.0	<10.0	<2.0	NA*
1,2,3-Trichloropropane	40	<1.0	<1.0	<1.0	<1.0	<10.0	<2.0	NA*
1,2,4-Trichlorobenzene	NL	<1.0	<1.0	<1.0	<1.0	<10.0	<2.0	NA*
1,2,4-Trimethylbenzene	NL	<1.0	<1.0	<1.0	<1.0	<10.0	<2.0	NA*
1,2-Dibromo-3-chloropropane	NL	<4.0	<4.0	<4.0	<4.0	<40.0	<8.0	NA*
1,2-Dibromoethane (EDB)	.004	<1.0	<1.0	<1.0	<1.0	<10.0	<2.0	NA*
1,2-Dichlorobenzene	600	<1.0	<1.0	<1.0	<1.0	<10.0	<2.0	NA*
1,2-Dichloroethane	4	<1.0	<1.0	<1.0	<1.0	<10.0	<2.0	NA*
1,2-Dichloropropane	5	<1.0	<1.0	<1.0	<1.0	<10.0	<2.0	NA*
1,3,5-Trimethylbenzene	100	<1.0	<1.0	<1.0	<1.0	<10.0	<2.0	NA*
1,3-Dichlorobenzene	NL	<1.0	<1.0	<1.0	<1.0	<10.0	<2.0	NA*
1,3-Dichloropropane	NL	<1.0	<1.0	<1.0	<1.0	<10.0	<2.0	NA*
1,4-Dichlorobenzene	10	<1.0	<1.0	<1.0	<1.0	<10.0	<2.0	NA*
2,2-Dichloropropane	NL	<4.0	<4.0	<4.0	<1.0	<40.0	<2.0	NA*
2-Butanone (MEK)	4000	<4.0	<4.0	<4.0	<4.0	<40.0	**24.1**	NA*
2-Chlorotoluene	NL	<1.0	<1.0	<1.0	<1.0	<10.0	<2.0	NA*
4-Chlorotoluene	NL	<1.0	<1.0	<1.0	<1.0	<10.0	<2.0	NA*
4-Methyl-2-pentanone (MIBK)	300	<4.0	<4.0	<4.0	<4.0	<40.0	<8.0	NA*
Acetone	700	<10.0	<10.0	<10.0	**12.9**	<100	<20.0	NA*
Allyl chloride	30	<4.0	<4.0	<4.0	<4.0	<40.0	<8.0	NA*
Benzene	2	<1.0	<1.0	<1.0	<1.0	<10.0	<2.0	NA*
Bromobenzene	NL	<1.0	<1.0	<1.0	<1.0	<10.0	<2.0	NA*
Bromochloromethane	NL	<1.0	<1.0	<1.0	<1.0	<10.0	<2.0	NA*
Bromodichloromethane	6	<1.0	<1.0	<1.0	<1.0	<10.0	<2.0	NA*
Bromoform	40	<8.0	<8.0	<8.0	<8.0	<80.0	<16.0	NA*
Bromomethane	10	<4.0	<4.0	<4.0	<4.0	<40.0	<8.0	NA*
Carbon tetrachloride	3	<4.0	<4.0	<4.0	<1.0	<40.0	<2.0	NA*
Chlorobenzene	100	<1.0	<1.0	<1.0	<1.0	<10.0	<2.0	NA*
Chloroethane	300	<1.0	<1.0	<1.0	<1.0	<10.0	<2.0	NA*
Chloroform	30	<1.0	<1.0	<1.0	<1.0	<10.0	<2.0	NA*
Chloromethane	NL	<4.0	<4.0	<4.0	<4.0	<40.0	<8.0	NA*
cis-1,2-Dichloroethene	50	<1.0	<1.0	<1.0	<1.0	<10.0	<2.0	<100
cis-1,3-Dichloropropene	NL	<4.0	<4.0	<4.0	<4.0	<40.0	<8.0	NA*
Dibromochloromethane	10	<1.0	<1.0	<1.0	<1.0	<10.0	<2.0	NA*
Dibromomethane	NL	<4.0	<4.0	<4.0	<1.0	<10.0	<2.0	NA*
Dichlorodifluoromethane	1000	<1.0	<1.0	<1.0	<1.0	<10.0	<2.0	NA*
Dichlorofluoromethane	NL	<1.0	<1.0	<1.0	<1.0	<10.0	<2.0	NA*
Diethyl ether (Ethyl ether)	1000	<4.0	<4.0	<4.0	<4.0	<40.0	<8.0	NA*
Ethylbenzene	700	<1.0	<1.0	<1.0	<1.0	<10.0	<2.0	NA*
Hexachloro-1,3-butadiene	1	<4.0	<4.0	<4.0	<4.0	<40.0	<8.0	NA*
Isopropylbenzene (Cumene)	300	<1.0	<1.0	<1.0	<1.0	<10.0	<2.0	NA*
m&p-Xylene	NL	<2.0	<2.0	<2.0	<2.0	<20.0	<4.0	NA*
Methylene Chloride	5	<4.0	<4.0	<4.0	<4.0	<40.0	<8.0	NA*
Methyl-tert-butyl ether	70	<1.0	<1.0	<1.0	<1.0	<10.0	<2.0	NA*
Naphthalene	300	<4.0	<4.0	<4.0	<4.0	<40.0	<8.0	NA*
n-Butylbenzene	NL	<1.0	<1.0	<1.0	<1.0	<10.0	<2.0	NA*
n-Propylbenzene	NL	<1.0	<1.0	<1.0	<1.0	<10.0	<2.0	NA*
o-Xylene	NL	<1.0	<1.0	<1.0	<1.0	<10.0	<2.0	NA*
p-Isopropyltoluene	NL	<1.0	<1.0	<1.0	<1.0	<10.0	<2.0	NA*
sec-Butylbenzene	NL	<1.0	<1.0	<1.0	<1.0	<10.0	<2.0	NA*
Styrene	NL	<1.0	<1.0	<1.0	<1.0	<10.0	<2.0	NA*
tert-Butylbenzene	NL	<1.0	<1.0	<1.0	<1.0	<10.0	<2.0	NA*
Tetrachloroethene	5	**262**	**131**	**66.9**	**90.3**	**1,480**	**1,850**	**14,200**
Tetrahydrofuran	100	<10.0	<10.0	<10.0	**18.4**	<100	**46.1**	NA*
Toluene	1000	<1.0	<1.0	<1.0	<1.0	<10.0	<2.0	NA*
trans-1,2-Dichloroethene	100	<1.0	<1.0	<1.0	<1.0	<10.0	<2.0	<100
trans-1,3-Dichloropropene	NL	<4.0	<4.0	<4.0	<4.0	<40.0	<8.0	NA*
Trichloroethene	5	<1.0	<1.0	<1.0	<1.0	<10.0	<2.0	<100
Trichlorofluoromethane	2000	<1.0	<1.0	<1.0	<1.0	<10.0	<2.0	NA*
Vinyl chloride	0.2	<0.40	<0.40	<0.40	<0.40	<4.0	<0.80	<40.0
Xylene (Total)	10000	<3.0	<3.0	<3.0	<3.0	<30.0	<6.0	NA*

Notes:
NL: No Limit
NA*: Not Analyzed
NS: Not Sampled

1,620 Parameter detected above laboratory reporting limit
5.2 Parameter detected above MDH Health Risk Limit

TABLE 10

GROUNDWATER ANALYTICAL RESULTS (ug/L)
MN Bio Business Center
221 1st Avenue SW
Rochester, Minnesota

Sample ID / Collected Date and Time	MDH Health Risk Limits 5/09	MW-14 12/21/12	MW-14 09/26/12	MW-14 05/17/12	MW-14 02/16/12	MW-14 11/21/11	MW-14 08/28/11	MW-14 05/19/11	MW-14 03/01/11
1,1,1,2-Tetrachloroethane	70	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1,1-Trichloroethane	9000	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1,2,2-Tetrachloroethane	2	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1,2-Trichloroethane	3	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1,2-Trichlorotrifluoroethane	200000	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1-Dichloroethane	70	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1-Dichloroethene	6	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1-Dichloropropene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2,3-Trichlorobenzene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2,3-Trichloropropane	40	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
1,2,4-Trichlorobenzene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2,4-Trimethylbenzene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-Dibromo-3-chloropropane	NL	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
1,2-Dibromoethane (EDB)	.004	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-Dichlorobenzene	600	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-Dichloroethane	4	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-Dichloropropane	5	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<1.0
1,3,5-Trimethylbenzene	100	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,3-Dichlorobenzene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,3-Dichloropropane	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,4-Dichlorobenzene	10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
2,2-Dichloropropane	NL	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
2-Butanone (MEK)	4000	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
2-Chlorotoluene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
4-Chlorotoluene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
4-Methyl-2-pentanone (MIBK)	300	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Acetone	700	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
Allyl chloride	30	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Benzene	2	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Bromobenzene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Bromochloromethane	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Bromodichloromethane	6	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Bromoform	40	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<8.0
Bromomethane	10	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Carbon tetrachloride	3	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<4.0
Chlorobenzene	100	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Chloroethane	300	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Chloroform	30	**2.1**	**1.6**	**1.4**	**1.2**	**1.4**	**1.6**	**1.9**	**2.3**
Chloromethane	NL	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
cis-1,2-Dichloroethene	50	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
cis-1,3-Dichloropropene	NL	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Dibromochloromethane	10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Dibromomethane	NL	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Dichlorodifluoromethane	1000	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Dichlorofluoromethane	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Diethyl ether (Ethyl ether)	1000	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Ethylbenzene	700	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Hexachloro-1,3-butadiene	1	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<4.0
Isopropylbenzene (Cumene)	300	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
m&p-Xylene	NL	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Methylene Chloride	5	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	**7.2**
Methyl-tert-butyl ether	70	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Naphthalene	300	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
n-Butylbenzene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
n-Propylbenzene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
o-Xylene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
p-Isopropyltoluene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
sec-Butylbenzene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Styrene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
tert-Butylbenzene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Tetrachloroethene	5	**1.3**	<1.0	<1.0	<1.0	**1.5**	**1.5**	**5.0**	**4.8**
Tetrahydrofuran	100	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
Toluene	1000	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
trans-1,2-Dichloroethene	100	<1.0	<1.0	<1.0	<1.0	<4.0	<4.0	<4.0	<1.0
trans-1,3-Dichloropropene	NL	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Trichloroethene	5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Trichlorofluoromethane	2000	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Vinyl chloride	0.2	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40
Xylene (Total)	10000	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0

Notes:
NL: No Limit
NA*: Not Analyzed
NS: Not Sampled

1,620 Parameter detected above laboratory reporting limit
5.2 Parameter detected above MDH Health Risk Limit

TABLE 10

GROUNDWATER ANALYTICAL RESULTS (ug/L)
MN Bio Business Center
221 1st Avenue SW
Rochester, Minnesota

Sample ID / Collected Date and Time	MDH Health Risk Limits 5/09	MW-14 11/18/10	MW-14 08/18/10	MW-14 05/12/10	MW-14 02/23/10	MW-14 11/16/09	MW-14 10/01/09	MW-14 12/03/08
1,1,1,2-Tetrachloroethane	70	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
1,1,1-Trichloroethane	9000	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
1,1,2,2-Tetrachloroethane	2	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
1,1,2-Trichloroethane	3	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
1,1,2-Trichlorotrifluoroethane	200000	<1.0	<1.0	<1.0	<1.0	**1.1**	<1.0	NA*
1,1-Dichloroethane	70	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
1,1-Dichloroethene	6	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1-Dichloropropene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
1,2,3-Trichlorobenzene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
1,2,3-Trichloropropane	40	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
1,2,4-Trichlorobenzene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
1,2,4-Trimethylbenzene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
1,2-Dibromo-3-chloropropane	NL	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	NA*
1,2-Dibromoethane (EDB)	.004	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
1,2-Dichlorobenzene	600	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
1,2-Dichloroethane	4	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
1,2-Dichloropropane	5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
1,3,5-Trimethylbenzene	100	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
1,3-Dichlorobenzene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
1,3-Dichloropropane	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
1,4-Dichlorobenzene	10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
2,2-Dichloropropane	NL	<4.0	<4.0	<4.0	<1.0	<4.0	<1.0	NA*
2-Butanone (MEK)	4000	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	NA*
2-Chlorotoluene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
4-Chlorotoluene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
4-Methyl-2-pentanone (MIBK)	300	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	NA*
Acetone	700	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	NA*
Allyl chloride	30	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	NA*
Benzene	2	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
Bromobenzene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
Bromochloromethane	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
Bromodichloromethane	6	<1.0	<1.0	**1.1**	<1.0	<1.0	<1.0	NA*
Bromoform	40	<8.0	<8.0	<8.0	<8.0	<8.0	<8.0	NA*
Bromomethane	10	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	NA*
Carbon tetrachloride	3	<4.0	<4.0	<4.0	<1.0	<4.0	<1.0	NA*
Chlorobenzene	100	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
Chloroethane	300	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
Chloroform	30	**3.5**	**3.0**	**4.1**	**3.2**	**2.7**	**3.7**	NA*
Chloromethane	NL	<4.0	<4.0	<4.0	**14.2**	<4.0	<4.0	NA*
cis-1,2-Dichloroethene	50	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
cis-1,3-Dichloropropene	NL	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	NA*
Dibromochloromethane	10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
Dibromomethane	NL	<4.0	<4.0	<4.0	<1.0	<1.0	<1.0	NA*
Dichlorodifluoromethane	1000	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
Dichlorofluoromethane	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
Diethyl ether (Ethyl ether)	1000	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	NA*
Ethylbenzene	700	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
Hexachloro-1,3-butadiene	1	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	NA*
Isopropylbenzene (Cumene)	300	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
m&p-Xylene	NL	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	NA*
Methylene Chloride	5	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	NA*
Methyl-tert-butyl ether	70	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
Naphthalene	300	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	NA*
n-Butylbenzene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
n-Propylbenzene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
o-Xylene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
p-Isopropyltoluene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
sec-Butylbenzene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
Styrene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
tert-Butylbenzene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
Tetrachloroethene	5	**6.6**	**1.8**	**3.1**	**3.0**	**7.1**	**4.2**	**30.6**
Tetrahydrofuran	100	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	NA*
Toluene	1000	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
trans-1,2-Dichloroethene	100	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
trans-1,3-Dichloropropene	NL	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	NA*
Trichloroethene	5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Trichlorofluoromethane	2000	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
Vinyl chloride	0.2	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40
Xylene (Total)	10000	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	NA*

Notes:
NL: No Limit
NA*: Not Analyzed
NS: Not Sampled

1,620 Parameter detected above laboratory reporting limit
5.2 Parameter detected above MDH Health Risk Limit

TABLE 10

GROUNDWATER ANALYTICAL RESULTS (ug/L)
MN Bio Business Center
221 1st Avenue SW
Rochester, Minnesota

Sample ID / Collected Date and Time	MDH Health Risk Limits 5/09	MW-15 12/19/12	MW-15 09/26/12	MW-15 05/17/12	MW-15 02/16/12	MW-15 11/21/11	MW-15 08/28/11	MW-15 05/19/11	MW-15 03/01/11
1,1,1,2-Tetrachloroethane	70	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1,1-Trichloroethane	9000	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1,2,2-Tetrachloroethane	2	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1,2-Trichloroethane	3	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1,2-Trichlorotrifluoroethane	200000	<1.0	<1.0	<1.0	<1.0	<1.0	**1.1**	<1.0	<1.0
1,1-Dichloroethane	70	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1-Dichloroethene	6	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1-Dichloropropene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2,3-Trichlorobenzene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2,3-Trichloropropane	40	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
1,2,4-Trichlorobenzene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2,4-Trimethylbenzene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-Dibromo-3-chloropropane	NL	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
1,2-Dibromoethane (EDB)	.004	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-Dichlorobenzene	600	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-Dichloroethane	4	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-Dichloropropane	5	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<1.0
1,3,5-Trimethylbenzene	100	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,3-Dichlorobenzene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,3-Dichloropropane	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,4-Dichlorobenzene	10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
2,2-Dichloropropane	NL	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
2-Butanone (MEK)	4000	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
2-Chlorotoluene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
4-Chlorotoluene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
4-Methyl-2-pentanone (MIBK)	300	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Acetone	700	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
Allyl chloride	30	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Benzene	2	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Bromobenzene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Bromochloromethane	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Bromodichloromethane	6	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Bromoform	40	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<8.0
Bromomethane	10	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Carbon tetrachloride	3	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<4.0
Chlorobenzene	100	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Chloroethane	300	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Chloroform	30	<1.0	<1.0	<1.0	<1.0	<1.0	**1.0**	**2.8**	**1.2**
Chloromethane	NL	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
cis-1,2-Dichloroethene	50	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
cis-1,3-Dichloropropene	NL	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Dibromochloromethane	10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Dibromomethane	NL	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Dichlorodifluoromethane	1000	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Dichlorofluoromethane	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Diethyl ether (Ethyl ether)	1000	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Ethylbenzene	700	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Hexachloro-1,3-butadiene	1	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<4.0
Isopropylbenzene (Cumene)	300	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
m&p-Xylene	NL	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Methylene Chloride	5	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	**6.4**
Methyl-tert-butyl ether	70	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Naphthalene	300	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
n-Butylbenzene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
n-Propylbenzene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
o-Xylene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
p-Isopropyltoluene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
sec-Butylbenzene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Styrene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
tert-Butylbenzene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Tetrachloroethene	5	<1.0	<1.0	<1.0	<1.0	<1.0	**1.2**	<1.0	<1.0
Tetrahydrofuran	100	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
Toluene	1000	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
trans-1,2-Dichloroethene	100	<1.0	<1.0	<1.0	<1.0	<4.0	<4.0	<4.0	<1.0
trans-1,3-Dichloropropene	NL	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Trichloroethene	5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Trichlorofluoromethane	2000	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Vinyl chloride	0.2	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40
Xylene (Total)	10000	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0

Notes:
NL: No Limit
NA*: Not Analyzed
NS: Not Sampled

1,620 Parameter detected above laboratory reporting limit
5.2 Parameter detected above MDH Health Risk Limit

TABLE 10

GROUNDWATER ANALYTICAL RESULTS (ug/L)
MN Bio Business Center
221 1st Avenue SW
Rochester, Minnesota

Sample ID Collected Date and Time	MDH Health Risk Limits 5/09	MW-15 11/18/10	MW-15 08/18/10	MW-15 05/12/10	MW-15 02/22/10	MW-15 11/16/09	MW-15 10/01/09	MW-15 12/10/08
1,1,1,2-Tetrachloroethane	70	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
1,1,1-Trichloroethane	9000	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
1,1,2,2-Tetrachloroethane	2	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
1,1,2-Trichloroethane	3	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
1,1,2-Trichlorotrifluoroethane	200000	**2.0**	<1.0	**1.5**	**3.3**	**6.4**	**6.4**	NA*
1,1-Dichloroethane	70	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
1,1-Dichloroethene	6	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1-Dichloropropene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
1,2,3-Trichlorobenzene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
1,2,3-Trichloropropane	40	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
1,2,4-Trichlorobenzene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
1,2,4-Trimethylbenzene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
1,2-Dibromo-3-chloropropane	NL	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	NA*
1,2-Dibromoethane (EDB)	.004	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
1,2-Dichlorobenzene	600	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
1,2-Dichloroethane	4	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
1,2-Dichloropropane	5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
1,3,5-Trimethylbenzene	100	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
1,3-Dichlorobenzene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
1,3-Dichloropropane	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
1,4-Dichlorobenzene	10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
2,2-Dichloropropane	NL	<4.0	<4.0	<4.0	<1.0	<4.0	<1.0	NA*
2-Butanone (MEK)	4000	<4.0	<4.0	<4.0	<4.0	**5.1**	<4.0	NA*
2-Chlorotoluene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
4-Chlorotoluene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
4-Methyl-2-pentanone (MIBK)	300	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	NA*
Acetone	700	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	NA*
Allyl chloride	30	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	NA*
Benzene	2	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
Bromobenzene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
Bromochloromethane	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
Bromodichloromethane	6	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
Bromoform	40	<8.0	<8.0	<8.0	<8.0	<8.0	<8.0	NA*
Bromomethane	10	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	NA*
Carbon tetrachloride	3	<4.0	<4.0	<4.0	<1.0	<4.0	<1.0	NA*
Chlorobenzene	100	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
Chloroethane	300	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
Chloroform	30	**1.8**	<1.0	**1.3**	**1.4**	**2.2**	**2.2**	NA*
Chloromethane	NL	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	NA*
cis-1,2-Dichloroethene	50	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
cis-1,3-Dichloropropene	NL	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	NA*
Dibromochloromethane	10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
Dibromomethane	NL	<4.0	<4.0	<4.0	<1.0	<1.0	<1.0	NA*
Dichlorodifluoromethane	1000	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
Dichlorofluoromethane	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
Diethyl ether (Ethyl ether)	1000	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	NA*
Ethylbenzene	700	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
Hexachloro-1,3-butadiene	1	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	NA*
Isopropylbenzene (Cumene)	300	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
m&p-Xylene	NL	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	NA*
Methylene Chloride	5	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	NA*
Methyl-tert-butyl ether	70	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
Naphthalene	300	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	NA*
n-Butylbenzene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
n-Propylbenzene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
o-Xylene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
p-Isopropyltoluene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
sec-Butylbenzene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
Styrene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
tert-Butylbenzene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
Tetrachloroethene	5	**3.3**	**1.3**	**2.8**	**5.7**	**9.5**	**15.7**	**104**
Tetrahydrofuran	100	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	NA*
Toluene	1000	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
trans-1,2-Dichloroethene	100	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
trans-1,3-Dichloropropene	NL	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	NA*
Trichloroethene	5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Trichlorofluoromethane	2000	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
Vinyl chloride	0.2	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40
Xylene (Total)	10000	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	NA*

Notes:
NL: No Limit
NA*: Not Analyzed
NS: Not Sampled

1,620 Parameter detected above laboratory reporting limit
5.2 Parameter detected above MDH Health Risk Limit

TABLE 10

GROUNDWATER ANALYTICAL RESULTS (ug/L)
MN Bio Business Center
221 1st Avenue SW
Rochester, Minnesota

Sample ID	MDH Health Risk Limits 5/09	MW-16	MW-16	MW-16	MW-16	MW-16	MW-16	MW-16
Collected Date and Time		12/19/12	09/26/12	05/17/12	02/16/12	11/21/11	08/28/11	05/19/11
1,1,1,2-Tetrachloroethane	70	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<2.0
1,1,1-Trichloroethane	9000	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<2.0
1,1,2,2-Tetrachloroethane	2	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<2.0
1,1,2-Trichloroethane	3	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<2.0
1,1,2-Trichlorotrifluoroethane	200000	**7.3**	**1.3**	<1.0	<1.0	**3.1**	**19.7**	**43.6**
1,1-Dichloroethane	70	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<2.0
1,1-Dichloroethene	6	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<2.0
1,1-Dichloropropene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<2.0
1,2,3-Trichlorobenzene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<2.0
1,2,3-Trichloropropane	40	<4.0	<4.0	<4.0	<4.0	<4.0	<8.0	<8.0
1,2,4-Trichlorobenzene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<2.0
1,2,4-Trimethylbenzene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<2.0
1,2-Dibromo-3-chloropropane	NL	<4.0	<4.0	<4.0	<4.0	<4.0	<8.0	<8.0
1,2-Dibromoethane (EDB)	.004	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<2.0
1,2-Dichlorobenzene	600	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<2.0
1,2-Dichloroethane	4	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<2.0
1,2-Dichloropropane	5	<4.0	<4.0	<4.0	<4.0	<4.0	<8.0	<8.0
1,3,5-Trimethylbenzene	100	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<2.0
1,3-Dichlorobenzene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<2.0
1,3-Dichloropropane	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<2.0
1,4-Dichlorobenzene	10	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<2.0
2,2-Dichloropropane	NL	<4.0	<4.0	<4.0	<4.0	<4.0	<8.0	<8.0
2-Butanone (MEK)	4000	<4.0	<4.0	<4.0	<4.0	<4.0	<8.0	<8.0
2-Chlorotoluene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<2.0
4-Chlorotoluene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<2.0
4-Methyl-2-pentanone (MIBK)	300	<4.0	<4.0	<4.0	<4.0	<4.0	<8.0	<8.0
Acetone	700	<25.0	<25.0	<25.0	<25.0	<25.0	<50.0	<50.0
Allyl chloride	30	<4.0	<4.0	<4.0	<4.0	<4.0	<8.0	<8.0
Benzene	2	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<2.0
Bromobenzene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<2.0
Bromochloromethane	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<2.0
Bromodichloromethane	6	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<2.0
Bromoform	40	<4.0	<4.0	<4.0	<4.0	<4.0	<8.0	<8.0
Bromomethane	10	<4.0	<4.0	<4.0	<4.0	<4.0	<8.0	<8.0
Carbon tetrachloride	3	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<2.0
Chlorobenzene	100	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<2.0
Chloroethane	300	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<2.0
Chloroform	30	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<2.0
Chloromethane	NL	<4.0	<4.0	<4.0	<4.0	<4.0	<8.0	<8.0
cis-1,2-Dichloroethene	50	**1.7**	<1.0	<1.0	<1.0	**1.0**	**7.3**	**4.1**
cis-1,3-Dichloropropene	NL	<4.0	<4.0	<4.0	<4.0	<4.0	<8.0	<8.0
Dibromochloromethane	10	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<2.0
Dibromomethane	NL	<4.0	<4.0	<4.0	<4.0	<4.0	<8.0	<8.0
Dichlorodifluoromethane	1000	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<2.0
Dichlorofluoromethane	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<2.0
Diethyl ether (Ethyl ether)	1000	<4.0	<4.0	<4.0	<4.0	<4.0	<8.0	<8.0
Ethylbenzene	700	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<2.0
Hexachloro-1,3-butadiene	1	<5.0	<5.0	<5.0	<5.0	<5.0	<10.0	<10.0
Isopropylbenzene (Cumene)	300	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<2.0
m&p-Xylene	NL	<2.0	<2.0	<2.0	<2.0	<2.0	<4.0	<4.0
Methylene Chloride	5	<4.0	<4.0	<4.0	<4.0	<4.0	<8.0	<8.0
Methyl-tert-butyl ether	70	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<2.0
Naphthalene	300	<4.0	<4.0	<4.0	<4.0	<4.0	<8.0	<8.0
n-Butylbenzene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<2.0
n-Propylbenzene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<2.0
o-Xylene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<2.0
p-Isopropyltoluene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<2.0
sec-Butylbenzene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<2.0
Styrene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<2.0
tert-Butylbenzene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<2.0
Tetrachloroethene	5	**128**	**21.8**	**7.8**	**16.1**	**75.0**	**590**	**1310**
Tetrahydrofuran	100	<10.0	<10.0	<10.0	<10.0	<10.0	<20.0	<20.0
Toluene	1000	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<2.0
trans-1,2-Dichloroethene	100	<1.0	<1.0	<1.0	<1.0	<4.0	<8.0	<8.0
trans-1,3-Dichloropropene	NL	<4.0	<4.0	<4.0	<4.0	<4.0	<8.0	<8.0
Trichloroethene	5	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	**2.0**
Trichlorofluoromethane	2000	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<2.0
Vinyl chloride	0.2	<0.40	<0.40	<0.40	<0.40	<0.40	<0.80	<0.80
Xylene (Total)	10000	<3.0	<3.0	<3.0	<3.0	<3.0	<6.0	<6.0

Notes:
NL: No Limit
NA*: Not Analyzed
NS: Not Sampled

1,620 Parameter detected above laboratory reporting limit
5.2 Parameter detected above MDH Health Risk Limit

TABLE 10

GROUNDWATER ANALYTICAL RESULTS (ug/L)
MN Bio Business Center
221 1st Avenue SW
Rochester, Minnesota

Sample ID / Collected Date and Time	MDH Health Risk Limits 5/09	MW-16 03/01/11	MW-16 11/18/10	MW-16 08/18/10	MW-16 05/12/10	MW-16 02/22/10	MW-16 11/16/09	MW-16 10/01/09	MW-16 12/03/08
1,1,1,2-Tetrachloroethane	70	<2.0	<5.0	<5.0	<10.0	<50.0	<250	<10.0	NA*
1,1,1-Trichloroethane	9000	<2.0	<5.0	<5.0	<10.0	<50.0	<250	<10.0	NA*
1,1,2,2-Tetrachloroethane	2	<2.0	<5.0	<5.0	<10.0	<50.0	<250	<10.0	NA*
1,1,2-Trichloroethane	3	<2.0	<5.0	<5.0	<10.0	<50.0	<250	<10.0	NA*
1,1,2-Trichlorotrifluoroethane	200000	**23.0**	**127**	**63.8**	**39.3**	**261**	**1,390**	**779**	NA*
1,1-Dichloroethane	70	<2.0	<5.0	<5.0	<10.0	<50.0	<250	<10.0	NA*
1,1-Dichloroethene	6	<2.0	<5.0	<5.0	<10.0	<50.0	<250	<10.0	<1.0
1,1-Dichloropropene	NL	<2.0	<5.0	<5.0	<10.0	<50.0	<250	<10.0	NA*
1,2,3-Trichlorobenzene	NL	<2.0	<5.0	<5.0	<10.0	<50.0	<250	<10.0	NA*
1,2,3-Trichloropropane	40	<8.0	<5.0	<5.0	<10.0	<50.0	<250	<10.0	NA*
1,2,4-Trichlorobenzene	NL	<2.0	<5.0	<5.0	<10.0	<50.0	<250	<10.0	NA*
1,2,4-Trimethylbenzene	NL	<2.0	<5.0	<5.0	<10.0	<50.0	<250	<10.0	NA*
1,2-Dibromo-3-chloropropane	NL	<8.0	<20.0	<20.0	<40.0	<200	<1000	<40.0	NA*
1,2-Dibromoethane (EDB)	.004	<2.0	<5.0	<5.0	<10.0	<50.0	<250	<10.0	NA*
1,2-Dichlorobenzene	600	<2.0	<5.0	<5.0	<10.0	<50.0	<250	<10.0	NA*
1,2-Dichloroethane	4	<2.0	<5.0	<5.0	<10.0	<50.0	<250	<10.0	NA*
1,2-Dichloropropane	5	<2.0	<5.0	<5.0	<10.0	<50.0	<250	<10.0	NA*
1,3,5-Trimethylbenzene	100	<2.0	<5.0	<5.0	<10.0	<50.0	<250	<10.0	NA*
1,3-Dichlorobenzene	NL	<2.0	<5.0	<5.0	<10.0	<50.0	<250	<10.0	NA*
1,3-Dichloropropane	NL	<2.0	<5.0	<5.0	<10.0	<50.0	<250	<10.0	NA*
1,4-Dichlorobenzene	10	<2.0	<5.0	<5.0	<10.0	<50.0	<250	<10.0	NA*
2,2-Dichloropropane	NL	<8.0	<20.0	<20.0	<40.0	<200	<1000	<10.0	NA*
2-Butanone (MEK)	4000	<8.0	<20.0	<20.0	<40.0	<200	<1000	<40.0	NA*
2-Chlorotoluene	NL	<2.0	<5.0	<5.0	<10.0	<50.0	<250	<10.0	NA*
4-Chlorotoluene	NL	<2.0	<5.0	<5.0	<10.0	<50.0	<250	<10.0	NA*
4-Methyl-2-pentanone (MIBK)	300	<8.0	<20.0	<20.0	<40.0	<200	<1000	<40.0	NA*
Acetone	700	<50.0	<50.0	<50.0	<100	<500	<2500	<100	NA*
Allyl chloride	30	<8.0	<20.0	<20.0	<40.0	<200	<1000	<40.0	NA*
Benzene	2	<2.0	<5.0	<5.0	<10.0	<50.0	<250	<10.0	NA*
Bromobenzene	NL	<2.0	<5.0	<5.0	<10.0	<50.0	<250	<10.0	NA*
Bromochloromethane	NL	<2.0	<5.0	<5.0	<10.0	<50.0	<250	<10.0	NA*
Bromodichloromethane	6	<2.0	<5.0	<5.0	<10.0	<50.0	<250	<10.0	NA*
Bromoform	40	<16.0	<40.0	<40.0	<80.0	<400	<2000	<80.0	NA*
Bromomethane	10	<20.0	<20.0	<20.0	<40.0	<200	<1000	<40.0	NA*
Carbon tetrachloride	3	<8.0	<20.0	<20.0	<40.0	<200	<1000	<10.0	NA*
Chlorobenzene	100	<2.0	<5.0	<5.0	<10.0	<50.0	<250	<10.0	NA*
Chloroethane	300	<2.0	<5.0	<5.0	<10.0	<50.0	<250	<10.0	NA*
Chloroform	30	<2.0	<5.0	<5.0	<10.0	<50.0	<250	<10.0	NA*
Chloromethane	NL	<8.0	<20.0	<20.0	<40.0	<200	<1000	<40.0	NA*
cis-1,2-Dichloroethene	50	**2.6**	**12.6**	<5.0	<10.0	<50.0	<250	**24.0**	**133**
cis-1,3-Dichloropropene	NL	<8.0	<20.0	<20.0	<40.0	<200	<1000	<40.0	NA*
Dibromochloromethane	10	<2.0	<5.0	<5.0	<10.0	<50.0	<250	<10.0	NA*
Dibromomethane	NL	<8.0	<20.0	<20.0	<40.0	<200	<250	<10.0	NA*
Dichlorodifluoromethane	1000	<2.0	<5.0	<5.0	<10.0	<50.0	<250	<10.0	NA*
Dichlorofluoromethane	NL	<2.0	<5.0	<5.0	<10.0	<50.0	<250	<10.0	NA*
Diethyl ether (Ethyl ether)	1000	<8.0	<20.0	<20.0	<40.0	<200	<1000	<40.0	NA*
Ethylbenzene	700	<2.0	<5.0	<5.0	<10.0	<50.0	<250	<10.0	NA*
Hexachloro-1,3-butadiene	1	<8.0	<20.0	<20.0	<40.0	<200	<1000	<40.0	NA*
Isopropylbenzene (Cumene)	300	<2.0	<5.0	<5.0	<10.0	<50.0	<250	<10.0	NA*
m&p-Xylene	NL	<4.0	<10.0	<10.0	<20.0	<100	<500	<20.0	NA*
Methylene Chloride	5	<8.0	<20.0	<20.0	<40.0	<200	<1000	<40.0	NA*
Methyl-tert-butyl ether	70	<2.0	<5.0	<5.0	<10.0	<50.0	<250	<10.0	NA*
Naphthalene	300	<8.0	<20.0	<20.0	<40.0	<200	<1000	<40.0	NA*
n-Butylbenzene	NL	<2.0	<5.0	<5.0	<10.0	<50.0	<250	<10.0	NA*
n-Propylbenzene	NL	<2.0	<5.0	<5.0	<10.0	<50.0	<250	<10.0	NA*
o-Xylene	NL	<2.0	<5.0	<5.0	<10.0	<50.0	<250	<10.0	NA*
p-Isopropyltoluene	NL	<2.0	<5.0	<5.0	<10.0	<50.0	<250	<10.0	NA*
sec-Butylbenzene	NL	<2.0	<5.0	<5.0	<10.0	<50.0	<250	<10.0	NA*
Styrene	NL	<2.0	<5.0	<5.0	<10.0	<50.0	<250	<10.0	NA*
tert-Butylbenzene	NL	<2.0	<5.0	<5.0	<10.0	<50.0	<250	<10.0	NA*
Tetrachloroethene	5	**322**	**2120**	**696**	**815**	**4,390**	**21,000**	**6,890**	**14,100**
Tetrahydrofuran	100	<20.0	<50.0	<50.0	<100	<500	<2500	<100	NA*
Toluene	1000	<2.0	<5.0	<5.0	<10.0	<50.0	<250	<10.0	NA*
trans-1,2-Dichloroethene	100	<2.0	<5.0	<5.0	<10.0	<50.0	<250	<10.0	<1.0
trans-1,3-Dichloropropene	NL	<8.0	<20.0	<20.0	<40.0	<200	<1000	<40.0	NA*
Trichloroethene	5	<2.0	<5.0	<5.0	<10.0	<50.0	<250	<10.0	**35.0**
Trichlorofluoromethane	2000	<2.0	<5.0	<5.0	<10.0	<50.0	<250	<10.0	NA*
Vinyl chloride	0.2	<0.80	<2.0	<2.0	<4.0	<20.0	<100	<4.0	<0.40
Xylene (Total)	10000	<6.0	<15.0	<15.0	<30.0	<150	<750	<30.0	NA*

Notes:
NL: No Limit
NA*: Not Analyzed
NS: Not Sampled

1,620 Parameter detected above laboratory reporting limit
5.2 Parameter detected above MDH Health Risk Limit

TABLE 10

GROUNDWATER ANALYTICAL RESULTS (ug/L)
MN Bio Business Center
221 1st Avenue SW
Rochester, Minnesota

Sample ID / Collected Date and Time	MDH Health Risk Limits 5/09	MW-17 12/19/12	MW-17 09/26/12	MW-17 05/17/12	MW-17 02/16/12	MW-17 11/21/11	MW-17 08/28/11	MW-17 05/19/11	MW-17 03/01/11
1,1,1,2-Tetrachloroethane	70	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1,1-Trichloroethane	9000	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1,2,2-Tetrachloroethane	2	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1,2-Trichloroethane	3	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1,2-Trichlorotrifluoroethane	200000	<1.0	**2.0**	**6.3**	**6.6**	**11.5**	**6.5**	**15.8**	**21.6**
1,1-Dichloroethane	70	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1-Dichloroethene	6	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1-Dichloropropene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2,3-Trichlorobenzene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2,3-Trichloropropane	40	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
1,2,4-Trichlorobenzene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2,4-Trimethylbenzene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-Dibromo-3-chloropropane	NL	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
1,2-Dibromoethane (EDB)	.004	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-Dichlorobenzene	600	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-Dichloroethane	4	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-Dichloropropane	5	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<1.0
1,3,5-Trimethylbenzene	100	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,3-Dichlorobenzene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,3-Dichloropropane	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,4-Dichlorobenzene	10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
2,2-Dichloropropane	NL	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
2-Butanone (MEK)	4000	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
2-Chlorotoluene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
4-Chlorotoluene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
4-Methyl-2-pentanone (MIBK)	300	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Acetone	700	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
Allyl chloride	30	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Benzene	2	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Bromobenzene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Bromochloromethane	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Bromodichloromethane	6	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Bromoform	40	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<8.0
Bromomethane	10	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<10.0
Carbon tetrachloride	3	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<4.0
Chlorobenzene	100	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Chloroethane	300	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Chloroform	30	**1.1**	**1.1**	**1.6**	**1.2**	**1.4**	<1.0	**1.1**	**1.4**
Chloromethane	NL	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
cis-1,2-Dichloroethene	50	<1.0	<1.0	<1.0	<1.0	**1.0**	**1.3**	**1.0**	**1.8**
cis-1,3-Dichloropropene	NL	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Dibromochloromethane	10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Dibromomethane	NL	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Dichlorodifluoromethane	1000	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Dichlorofluoromethane	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Diethyl ether (Ethyl ether)	1000	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Ethylbenzene	700	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Hexachloro-1,3-butadiene	1	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<4.0
Isopropylbenzene (Cumene)	300	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
m&p-Xylene	NL	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Methylene Chloride	5	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	**6.1**
Methyl-tert-butyl ether	70	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Naphthalene	300	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
n-Butylbenzene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
n-Propylbenzene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
o-Xylene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
p-Isopropyltoluene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
sec-Butylbenzene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Styrene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
tert-Butylbenzene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Tetrachloroethene	5	**22.0**	**23.3**	**37.1**	**47.1**	**106**	**107**	**109**	**145**
Tetrahydrofuran	100	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
Toluene	1000	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
trans-1,2-Dichloroethene	100	<1.0	<1.0	<1.0	<1.0	<4.0	<4.0	<4.0	<1.0
trans-1,3-Dichloropropene	NL	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Trichloroethene	5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Trichlorofluoromethane	2000	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Vinyl chloride	0.2	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40
Xylene (Total)	10000	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0

Notes:
NL: No Limit
NA*: Not Analyzed
NS: Not Sampled

1,620 Parameter detected above laboratory reporting limit
5.2 Parameter detected above MDH Health Risk Limit

TABLE 10

GROUNDWATER ANALYTICAL RESULTS (ug/L)
MN Bio Business Center
221 1st Avenue SW
Rochester, Minnesota

Sample ID / Collected Date and Time	MDH Health Risk Limits 5/09	MW-17 11/18/10	MW-17 08/18/10	MW-17 05/12/10	MW-17 02/22/10	MW-17 11/16/09	MW-17 10/01/09	MW-17 12/03/08
1,1,1,2-Tetrachloroethane	70	<1.0	<1.0	<5.0	<5.0	<5.0	<2.0	NA*
1,1,1-Trichloroethane	9000	<1.0	<1.0	<5.0	<5.0	<5.0	<2.0	NA*
1,1,2,2-Tetrachloroethane	2	<1.0	<1.0	<5.0	<5.0	<5.0	<2.0	NA*
1,1,2-Trichloroethane	3	<1.0	<1.0	<5.0	<5.0	<5.0	<2.0	NA*
1,1,2-Trichlorotrifluoroethane	200000	**25.1**	**25.4**	**46.8**	**76.2**	**199**	**249**	NA*
1,1-Dichloroethane	70	<1.0	<1.0	<5.0	<5.0	<5.0	<2.0	NA*
1,1-Dichloroethene	6	<1.0	<1.0	<5.0	<5.0	<5.0	<2.0	<5.0
1,1-Dichloropropene	NL	<1.0	<1.0	<5.0	<5.0	<5.0	<2.0	NA*
1,2,3-Trichlorobenzene	NL	<1.0	<1.0	<5.0	<5.0	<5.0	<2.0	NA*
1,2,3-Trichloropropane	40	<1.0	<1.0	<5.0	<5.0	<5.0	<2.0	NA*
1,2,4-Trichlorobenzene	NL	<1.0	<1.0	<5.0	<5.0	<5.0	<2.0	NA*
1,2,4-Trimethylbenzene	NL	<1.0	<1.0	<5.0	<5.0	<5.0	<2.0	NA*
1,2-Dibromo-3-chloropropane	NL	<4.0	<4.0	<20.0	<20.0	<20.0	<8.0	NA*
1,2-Dibromoethane (EDB)	.004	<1.0	<1.0	<5.0	<5.0	<5.0	<2.0	NA*
1,2-Dichlorobenzene	600	<1.0	<1.0	<5.0	<5.0	<5.0	<2.0	NA*
1,2-Dichloroethane	4	<1.0	<1.0	<5.0	<5.0	<5.0	<2.0	NA*
1,2-Dichloropropane	5	<1.0	<1.0	<5.0	<5.0	<5.0	<2.0	NA*
1,3,5-Trimethylbenzene	100	<1.0	<1.0	<5.0	<5.0	<5.0	<2.0	NA*
1,3-Dichlorobenzene	NL	<1.0	<1.0	<5.0	<5.0	<5.0	<2.0	NA*
1,3-Dichloropropane	NL	<1.0	<1.0	<5.0	<5.0	<5.0	<2.0	NA*
1,4-Dichlorobenzene	10	<1.0	<1.0	<5.0	<5.0	<5.0	<2.0	NA*
2,2-Dichloropropane	NL	<4.0	<4.0	<20.0	<20.0	<20.0	<2.0	NA*
2-Butanone (MEK)	4000	<4.0	<4.0	<20.0	<20.0	<20.0	<8.0	NA*
2-Chlorotoluene	NL	<1.0	<1.0	<5.0	<5.0	<5.0	<2.0	NA*
4-Chlorotoluene	NL	<1.0	<1.0	<5.0	<5.0	<5.0	<2.0	NA*
4-Methyl-2-pentanone (MIBK)	300	<4.0	<4.0	<20.0	<20.0	<20.0	<8.0	NA*
Acetone	700	<10.0	<10.0	<50.0	<50.0	<50.0	<20.0	NA*
Allyl chloride	30	<4.0	<4.0	<20.0	<20.0	<20.0	<8.0	NA*
Benzene	2	<1.0	<1.0	<5.0	<5.0	<5.0	<2.0	NA*
Bromobenzene	NL	<1.0	<1.0	<5.0	<5.0	<5.0	<2.0	NA*
Bromochloromethane	NL	<1.0	<1.0	<5.0	<5.0	<5.0	<2.0	NA*
Bromodichloromethane	6	<1.0	<1.0	<5.0	<5.0	<5.0	<2.0	NA*
Bromoform	40	<8.0	<8.0	<40.0	<40.0	<40.0	<16.0	NA*
Bromomethane	10	<4.0	<4.0	<20.0	<20.0	<20.0	<8.0	NA*
Carbon tetrachloride	3	<4.0	<4.0	<20.0	<20.0	<20.0	<2.0	NA*
Chlorobenzene	100	<1.0	<1.0	<5.0	<5.0	<5.0	<2.0	NA*
Chloroethane	300	<1.0	<1.0	<5.0	<5.0	<5.0	<2.0	NA*
Chloroform	30	**1.8**	**2.5**	<5.0	<5.0	<5.0	**2.4**	NA*
Chloromethane	NL	<4.0	<4.0	<20.0	<20.0	<20.0	<8.0	NA*
cis-1,2-Dichloroethene	50	**2.2**	**2.4**	<5.0	**5.4**	**7.9**	**4.8**	<5.0
cis-1,3-Dichloropropene	NL	<4.0	<4.0	<20.0	<20.0	<20.0	<8.0	NA*
Dibromochloromethane	10	<1.0	<1.0	<5.0	<5.0	<5.0	<2.0	NA*
Dibromomethane	NL	<4.0	<4.0	<20.0	<20.0	<5.0	<2.0	NA*
Dichlorodifluoromethane	1000	<1.0	<1.0	<5.0	<5.0	<5.0	<2.0	NA*
Dichlorofluoromethane	NL	<1.0	<1.0	<5.0	<5.0	<5.0	<2.0	NA*
Diethyl ether (Ethyl ether)	1000	<4.0	<4.0	<20.0	<20.0	<20.0	<8.0	NA*
Ethylbenzene	700	<1.0	<1.0	<5.0	<5.0	<5.0	<2.0	NA*
Hexachloro-1,3-butadiene	1	<4.0	<4.0	<20.0	<20.0	<20.0	<8.0	NA*
Isopropylbenzene (Cumene)	300	<1.0	<1.0	<5.0	<5.0	<5.0	<2.0	NA*
m&p-Xylene	NL	<2.0	<2.0	<10.0	<10.0	<10.0	<4.0	NA*
Methylene Chloride	5	<4.0	<4.0	<20.0	<20.0	<20.0	<8.0	NA*
Methyl-tert-butyl ether	70	<1.0	<1.0	<5.0	<5.0	<5.0	<2.0	NA*
Naphthalene	300	<4.0	<4.0	<20.0	<20.0	<20.0	<8.0	NA*
n-Butylbenzene	NL	<1.0	<1.0	<5.0	<5.0	<5.0	<2.0	NA*
n-Propylbenzene	NL	<1.0	<1.0	<5.0	<5.0	<5.0	<2.0	NA*
o-Xylene	NL	<1.0	<1.0	<5.0	<5.0	<5.0	<2.0	NA*
p-Isopropyltoluene	NL	<1.0	<1.0	<5.0	<5.0	<5.0	<2.0	NA*
sec-Butylbenzene	NL	<1.0	<1.0	<5.0	<5.0	<5.0	<2.0	NA*
Styrene	NL	<1.0	<1.0	<5.0	<5.0	<5.0	<2.0	NA*
tert-Butylbenzene	NL	<1.0	<1.0	<5.0	<5.0	<5.0	<2.0	NA*
Tetrachloroethene	5	**209**	**174**	**412**	**639**	**1,100**	**803**	**363**
Tetrahydrofuran	100	<10.0	<10.0	<50.0	<50.0	<50.0	<20.0	NA*
Toluene	1000	<1.0	<1.0	<5.0	<5.0	<5.0	<2.0	NA*
trans-1,2-Dichloroethene	100	<1.0	<1.0	<5.0	<5.0	<5.0	<2.0	<5.0
trans-1,3-Dichloropropene	NL	<4.0	<4.0	<20.0	<20.0	<20.0	<8.0	NA*
Trichloroethene	5	<1.0	<1.0	<5.0	<5.0	<5.0	<2.0	<5.0
Trichlorofluoromethane	2000	<1.0	<1.0	<5.0	<5.0	<5.0	<2.0	NA*
Vinyl chloride	0.2	<0.40	<0.40	<2.0	<2.0	<2.0	<0.80	<2.0
Xylene (Total)	10000	<3.0	<3.0	<15.0	<15.0	<15.0	<6.0	NA*

Notes:
NL: No Limit
NA*: Not Analyzed
NS: Not Sampled

1,620 Parameter detected above laboratory reporting limit
5.2 Parameter detected above MDH Health Risk Limit

TABLE 10

GROUNDWATER ANALYTICAL RESULTS (ug/L)
MN Bio Business Center
221 1st Avenue SW
Rochester, Minnesota

Sample ID	MDH Health Risk Limits 5/09	MW-18	MW-18	MW-18	MW-18	MW-18	MW-18	MW-18	MW-18
Collected Date and Time		12/19/12	09/26/12	05/17/12	02/16/12	11/21/11	08/28/11	05/19/11	03/01/11
1,1,1,2-Tetrachloroethane	70	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1,1-Trichloroethane	9000	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1,2,2-Tetrachloroethane	2	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1,2-Trichloroethane	3	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1,2-Trichlorotrifluoroethane	200000	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1-Dichloroethane	70	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1-Dichloroethene	6	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1-Dichloropropene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2,3-Trichlorobenzene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2,3-Trichloropropane	40	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
1,2,4-Trichlorobenzene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2,4-Trimethylbenzene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-Dibromo-3-chloropropane	NL	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
1,2-Dibromoethane (EDB)	.004	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-Dichlorobenzene	600	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-Dichloroethane	4	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-Dichloropropane	5	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<1.0
1,3,5-Trimethylbenzene	100	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,3-Dichlorobenzene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,3-Dichloropropane	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,4-Dichlorobenzene	10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
2,2-Dichloropropane	NL	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
2-Butanone (MEK)	4000	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
2-Chlorotoluene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
4-Chlorotoluene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
4-Methyl-2-pentanone (MIBK)	300	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Acetone	700	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
Allyl chloride	30	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Benzene	2	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Bromobenzene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Bromochloromethane	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Bromodichloromethane	6	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Bromoform	40	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<8.0
Bromomethane	10	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Carbon tetrachloride	3	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<4.0
Chlorobenzene	100	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Chloroethane	300	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Chloroform	30	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Chloromethane	NL	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
cis-1,2-Dichloroethene	50	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
cis-1,3-Dichloropropene	NL	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Dibromochloromethane	10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Dibromomethane	NL	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Dichlorodifluoromethane	1000	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Dichlorofluoromethane	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Diethyl ether (Ethyl ether)	1000	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Ethylbenzene	700	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Hexachloro-1,3-butadiene	1	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<4.0
Isopropylbenzene (Cumene)	300	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
m&p-Xylene	NL	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Methylene Chloride	5	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	**7.2**
Methyl-tert-butyl ether	70	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Naphthalene	300	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
n-Butylbenzene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
n-Propylbenzene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
o-Xylene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
p-Isopropyltoluene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
sec-Butylbenzene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Styrene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
tert-Butylbenzene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Tetrachloroethene	5	<1.0	**1.8**	**1.5**	**2.9**	**3.6**	**3.6**	**3.6**	**4.8**
Tetrahydrofuran	100	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
Toluene	1000	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
trans-1,2-Dichloroethene	100	<1.0	<1.0	<1.0	<1.0	<4.0	<4.0	<4.0	<1.0
trans-1,3-Dichloropropene	NL	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Trichloroethene	5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Trichlorofluoromethane	2000	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Vinyl chloride	0.2	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40
Xylene (Total)	10000	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0

Notes:
NL: No Limit
NA*: Not Analyzed
NS: Not Sampled

1,620 Parameter detected above laboratory reporting limit
5.2 Parameter detected above MDH Health Risk Limit

TABLE 10

GROUNDWATER ANALYTICAL RESULTS (ug/L)
MN Bio Business Center
221 1st Avenue SW
Rochester, Minnesota

Sample ID / Collected Date and Time	MDH Health Risk Limits 5/09	MW-18 11/18/10	MW-18 08/18/10	MW-18 05/12/10	MW-18 02/22/10	MW-18 11/16/09	MW-18 10/01/09	MW-18 12/03/08
1,1,1,2-Tetrachloroethane	70	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
1,1,1-Trichloroethane	9000	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
1,1,2,2-Tetrachloroethane	2	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
1,1,2-Trichloroethane	3	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
1,1,2-Trichlorotrifluoroethane	200000	<1.0	<1.0	<1.0	**2.0**	<1.0	**2.7**	NA*
1,1-Dichloroethane	70	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
1,1-Dichloroethene	6	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0
1,1-Dichloropropene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
1,2,3-Trichlorobenzene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
1,2,3-Trichloropropane	40	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
1,2,4-Trichlorobenzene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
1,2,4-Trimethylbenzene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
1,2-Dibromo-3-chloropropane	NL	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	NA*
1,2-Dibromoethane (EDB)	.004	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
1,2-Dichlorobenzene	600	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
1,2-Dichloroethane	4	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
1,2-Dichloropropane	5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
1,3,5-Trimethylbenzene	100	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
1,3-Dichlorobenzene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
1,3-Dichloropropane	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
1,4-Dichlorobenzene	10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
2,2-Dichloropropane	NL	<4.0	<4.0	<4.0	<1.0	<4.0	<1.0	NA*
2-Butanone (MEK)	4000	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	NA*
2-Chlorotoluene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
4-Chlorotoluene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
4-Methyl-2-pentanone (MIBK)	300	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	NA*
Acetone	700	<10.0	<10.0	<10.0	**12.2**	<10.0	<10.0	NA*
Allyl chloride	30	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	NA*
Benzene	2	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
Bromobenzene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
Bromochloromethane	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
Bromodichloromethane	6	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
Bromoform	40	<8.0	<8.0	<8.0	<8.0	<8.0	<8.0	NA*
Bromomethane	10	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	NA*
Carbon tetrachloride	3	<4.0	<4.0	<4.0	<1.0	<4.0	<1.0	NA*
Chlorobenzene	100	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
Chloroethane	300	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
Chloroform	30	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
Chloromethane	NL	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	NA*
cis-1,2-Dichloroethene	50	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0
cis-1,3-Dichloropropene	NL	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	NA*
Dibromochloromethane	10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
Dibromomethane	NL	<4.0	<4.0	<4.0	<1.0	<1.0	<1.0	NA*
Dichlorodifluoromethane	1000	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
Dichlorofluoromethane	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
Diethyl ether (Ethyl ether)	1000	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	NA*
Ethylbenzene	700	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
Hexachloro-1,3-butadiene	1	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	NA*
Isopropylbenzene (Cumene)	300	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
m&p-Xylene	NL	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	NA*
Methylene Chloride	5	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	NA*
Methyl-tert-butyl ether	70	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
Naphthalene	300	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	NA*
n-Butylbenzene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
n-Propylbenzene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
o-Xylene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
p-Isopropyltoluene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
sec-Butylbenzene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
Styrene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
tert-Butylbenzene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
Tetrachloroethene	5	**8.6**	**8.4**	**26.0**	**96.8**	**130**	**250**	**257**
Tetrahydrofuran	100	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	NA*
Toluene	1000	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
trans-1,2-Dichloroethene	100	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0
trans-1,3-Dichloropropene	NL	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	NA*
Trichloroethene	5	<1.0	<1.0	<1.0	**1.2**	**2.1**	**2.6**	<2.0
Trichlorofluoromethane	2000	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
Vinyl chloride	0.2	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.80
Xylene (Total)	10000	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	NA*

Notes:
NL: No Limit
NA*: Not Analyzed
NS: Not Sampled

1,620 Parameter detected above laboratory reporting limit
5.2 Parameter detected above MDH Health Risk Limit

TABLE 10

GROUNDWATER ANALYTICAL RESULTS (ug/L)
MN Bio Business Center
221 1st Avenue SW
Rochester, Minnesota

Sample ID	MDH Health Risk Limits 5/09	MW-19	MW-19	MW-19	MW-19	MW-19	MW-19	MW-19	MW-19
Collected Date and Time		12/19/12	09/26/12	05/17/12	02/16/12	11/21/11	08/28/11	05/19/11	03/01/11
1,1,1,2-Tetrachloroethane	70	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1,1-Trichloroethane	9000	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1,2,2-Tetrachloroethane	2	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1,2-Trichloroethane	3	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1,2-Trichlorotrifluoroethane	200000	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1-Dichloroethane	70	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1-Dichloroethene	6	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1-Dichloropropene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2,3-Trichlorobenzene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2,3-Trichloropropane	40	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
1,2,4-Trichlorobenzene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2,4-Trimethylbenzene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-Dibromo-3-chloropropane	NL	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
1,2-Dibromoethane (EDB)	.004	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-Dichlorobenzene	600	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-Dichloroethane	4	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-Dichloropropane	5	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<1.0
1,3,5-Trimethylbenzene	100	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,3-Dichlorobenzene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,3-Dichloropropane	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,4-Dichlorobenzene	10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
2,2-Dichloropropane	NL	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
2-Butanone (MEK)	4000	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
2-Chlorotoluene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
4-Chlorotoluene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
4-Methyl-2-pentanone (MIBK)	300	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Acetone	700	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
Allyl chloride	30	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Benzene	2	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Bromobenzene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Bromochloromethane	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Bromodichloromethane	6	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Bromoform	40	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<8.0
Bromomethane	10	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Carbon tetrachloride	3	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<4.0
Chlorobenzene	100	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Chloroethane	300	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Chloroform	30	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Chloromethane	NL	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
cis-1,2-Dichloroethene	50	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
cis-1,3-Dichloropropene	NL	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Dibromochloromethane	10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Dibromomethane	NL	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Dichlorodifluoromethane	1000	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Dichlorofluoromethane	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Diethyl ether (Ethyl ether)	1000	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Ethylbenzene	700	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Hexachloro-1,3-butadiene	1	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<4.0
Isopropylbenzene (Cumene)	300	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
m&p-Xylene	NL	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Methylene Chloride	5	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	**5.2**
Methyl-tert-butyl ether	70	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Naphthalene	300	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
n-Butylbenzene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
n-Propylbenzene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
o-Xylene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
p-Isopropyltoluene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
sec-Butylbenzene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Styrene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
tert-Butylbenzene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Tetrachloroethene	5	**1.4**	<1.0	**1.1**	**2.2**	**2.7**	**2.9**	**4.7**	**4.8**
Tetrahydrofuran	100	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
Toluene	1000	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
trans-1,2-Dichloroethene	100	<1.0	<1.0	<1.0	<1.0	<4.0	<4.0	<4.0	<1.0
trans-1,3-Dichloropropene	NL	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Trichloroethene	5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Trichlorofluoromethane	2000	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Vinyl chloride	0.2	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40
Xylene (Total)	10000	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0

Notes:
NL: No Limit
NA*: Not Analyzed
NS: Not Sampled

1,620 Parameter detected above laboratory reporting limit
5.2 Parameter detected above MDH Health Risk Limit

TABLE 10

GROUNDWATER ANALYTICAL RESULTS (ug/L)
MN Bio Business Center
221 1st Avenue SW
Rochester, Minnesota

Sample ID Collected Date and Time	MDH Health Risk Limits 5/09	MW-19 11/18/10	MW-19 08/18/10	MW-19 05/12/10	MW-19 02/23/10	MW-19 11/16/09	MW-19 09/24/09	MW-19 12/03/08
1,1,1,2-Tetrachloroethane	70	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
1,1,1-Trichloroethane	9000	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
1,1,2,2-Tetrachloroethane	2	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
1,1,2-Trichloroethane	3	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
1,1,2-Trichlorotrifluoroethane	200000	<1.0	<1.0	<1.0	<1.0	**1.9**	**2.4**	NA*
1,1-Dichloroethane	70	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
1,1-Dichloroethene	6	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1-Dichloropropene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
1,2,3-Trichlorobenzene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
1,2,3-Trichloropropane	40	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
1,2,4-Trichlorobenzene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
1,2,4-Trimethylbenzene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
1,2-Dibromo-3-chloropropane	NL	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	NA*
1,2-Dibromoethane (EDB)	.004	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
1,2-Dichlorobenzene	600	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
1,2-Dichloroethane	4	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
1,2-Dichloropropane	5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
1,3,5-Trimethylbenzene	100	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
1,3-Dichlorobenzene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
1,3-Dichloropropane	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
1,4-Dichlorobenzene	10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
2,2-Dichloropropane	NL	<4.0	<4.0	<4.0	<1.0	<4.0	<1.0	NA*
2-Butanone (MEK)	4000	<4.0	<4.0	<4.0	<4.0	<4.0	**5.5**	NA*
2-Chlorotoluene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
4-Chlorotoluene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
4-Methyl-2-pentanone (MIBK)	300	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	NA*
Acetone	700	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	NA*
Allyl chloride	30	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	NA*
Benzene	2	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
Bromobenzene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
Bromochloromethane	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
Bromodichloromethane	6	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
Bromoform	40	<8.0	<8.0	<8.0	<8.0	<8.0	<8.0	NA*
Bromomethane	10	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	NA*
Carbon tetrachloride	3	<4.0	<4.0	<4.0	<1.0	<4.0	<1.0	NA*
Chlorobenzene	100	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
Chloroethane	300	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
Chloroform	30	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
Chloromethane	NL	<4.0	<4.0	<4.0	**10.4**	<4.0	<4.0	NA*
cis-1,2-Dichloroethene	50	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
cis-1,3-Dichloropropene	NL	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	NA*
Dibromochloromethane	10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
Dibromomethane	NL	<4.0	<4.0	<4.0	<1.0	<1.0	<1.0	NA*
Dichlorodifluoromethane	1000	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
Dichlorofluoromethane	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
Diethyl ether (Ethyl ether)	1000	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	NA*
Ethylbenzene	700	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
Hexachloro-1,3-butadiene	1	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	NA*
Isopropylbenzene (Cumene)	300	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
m&p-Xylene	NL	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	NA*
Methylene Chloride	5	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	NA*
Methyl-tert-butyl ether	70	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
Naphthalene	300	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	NA*
n-Butylbenzene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
n-Propylbenzene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
o-Xylene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
p-Isopropyltoluene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
sec-Butylbenzene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
Styrene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
tert-Butylbenzene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
Tetrachloroethene	5	**4.8**	**4.2**	**7.2**	**12.9**	**13.6**	**17.4**	**2.4**
Tetrahydrofuran	100	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	NA*
Toluene	1000	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
trans-1,2-Dichloroethene	100	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
trans-1,3-Dichloropropene	NL	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	NA*
Trichloroethene	5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Trichlorofluoromethane	2000	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
Vinyl chloride	0.2	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40
Xylene (Total)	10000	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	NA*

Notes:
NL: No Limit
NA*: Not Analyzed
NS: Not Sampled

1,620 Parameter detected above laboratory reporting limit
5.2 Parameter detected above MDH Health Risk Limit

TABLE 10

GROUNDWATER ANALYTICAL RESULTS (ug/L)
MN Bio Business Center
221 1st Avenue SW
Rochester, Minnesota

Sample ID Collected Date and Time	MDH Health Risk Limits 5/09	MW-20 12/19/12	MW-20 09/26/12	MW-20 05/17/12	MW-20 02/16/12	MW-20 11/21/11	MW-20 08/28/11	MW-20 05/19/11	MW-20 03/01/11
1,1,1,2-Tetrachloroethane	70	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1,1-Trichloroethane	9000	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1,2,2-Tetrachloroethane	2	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1,2-Trichloroethane	3	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1,2-Trichlorotrifluoroethane	200000	**1.3**	**1.3**	**1.5**	**2.1**	**2.5**	<1.0	**2.3**	**8.6**
1,1-Dichloroethane	70	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1-Dichloroethene	6	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1-Dichloropropene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2,3-Trichlorobenzene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2,3-Trichloropropane	40	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
1,2,4-Trichlorobenzene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2,4-Trimethylbenzene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-Dibromo-3-chloropropane	NL	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
1,2-Dibromoethane (EDB)	.004	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-Dichlorobenzene	600	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-Dichloroethane	4	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-Dichloropropane	5	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<1.0
1,3,5-Trimethylbenzene	100	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,3-Dichlorobenzene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,3-Dichloropropane	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,4-Dichlorobenzene	10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
2,2-Dichloropropane	NL	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
2-Butanone (MEK)	4000	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
2-Chlorotoluene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
4-Chlorotoluene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
4-Methyl-2-pentanone (MIBK)	300	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Acetone	700	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
Allyl chloride	30	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Benzene	2	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Bromobenzene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Bromochloromethane	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Bromodichloromethane	6	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Bromoform	40	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<8.0
Bromomethane	10	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Carbon tetrachloride	3	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<4.0
Chlorobenzene	100	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Chloroethane	300	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Chloroform	30	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Chloromethane	NL	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
cis-1,2-Dichloroethene	50	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
cis-1,3-Dichloropropene	NL	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Dibromochloromethane	10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Dibromomethane	NL	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Dichlorodifluoromethane	1000	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Dichlorofluoromethane	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Diethyl ether (Ethyl ether)	1000	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Ethylbenzene	700	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Hexachloro-1,3-butadiene	1	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<4.0
Isopropylbenzene (Cumene)	300	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
m&p-Xylene	NL	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Methylene Chloride	5	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	**5.2**
Methyl-tert-butyl ether	70	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Naphthalene	300	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
n-Butylbenzene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
n-Propylbenzene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
o-Xylene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
p-Isopropyltoluene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
sec-Butylbenzene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Styrene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
tert-Butylbenzene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Tetrachloroethene	5	**40.8**	**17.4**	**28.7**	**41.8**	**32.5**	**12.2**	**16.8**	**211**
Tetrahydrofuran	100	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
Toluene	1000	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
trans-1,2-Dichloroethene	100	<1.0	<1.0	<1.0	<1.0	<4.0	<4.0	<4.0	<1.0
trans-1,3-Dichloropropene	NL	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Trichloroethene	5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Trichlorofluoromethane	2000	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Vinyl chloride	0.2	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40
Xylene (Total)	10000	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0

Notes:
NL: No Limit
NA*: Not Analyzed
NS: Not Sampled

1,620 Parameter detected above MDH Health Risk Limit
5.2 Parameter detected above MDH Health Risk Limit

TABLE 10

GROUNDWATER ANALYTICAL RESULTS (ug/L)
MN Bio Business Center
221 1st Avenue SW
Rochester, Minnesota

Sample ID / Collected Date and Time	MDH Health Risk Limits 5/09	MW-20 11/18/10	MW-20 08/18/10	MW-20 05/12/10	MW-20 02/23/10	MW-20 11/16/09	MW-20 10/01/09	MW-20 12/10/08
1,1,1,2-Tetrachloroethane	70	<1.0	<1.0	<2.0	<2.0	<2.0	<1.0	NA*
1,1,1-Trichloroethane	9000	<1.0	<1.0	<2.0	<2.0	<2.0	<1.0	NA*
1,1,2,2-Tetrachloroethane	2	<1.0	<1.0	<2.0	<2.0	<2.0	<1.0	NA*
1,1,2-Trichloroethane	3	<1.0	<1.0	<2.0	<2.0	<2.0	<1.0	NA*
1,1,2-Trichlorotrifluoroethane	200000	**2.7**	**2.8**	**11.2**	**20.9**	**37.4**	**33.5**	NA*
1,1-Dichloroethane	70	<1.0	<1.0	<2.0	<2.0	<2.0	<1.0	NA*
1,1-Dichloroethene	6	<1.0	<1.0	<2.0	<2.0	<2.0	<1.0	<5.0
1,1-Dichloropropene	NL	<1.0	<1.0	<2.0	<2.0	<2.0	<1.0	NA*
1,2,3-Trichlorobenzene	NL	<1.0	<1.0	<2.0	<2.0	<2.0	<1.0	NA*
1,2,3-Trichloropropane	40	<1.0	<1.0	<2.0	<2.0	<2.0	<1.0	NA*
1,2,4-Trichlorobenzene	NL	<1.0	<1.0	<2.0	<2.0	<2.0	<1.0	NA*
1,2,4-Trimethylbenzene	NL	<1.0	<1.0	<2.0	<2.0	<2.0	<1.0	NA*
1,2-Dibromo-3-chloropropane	NL	<4.0	<4.0	<8.0	<8.0	<8.0	<4.0	NA*
1,2-Dibromoethane (EDB)	.004	<1.0	<1.0	<2.0	<2.0	<2.0	<1.0	NA*
1,2-Dichlorobenzene	600	<1.0	<1.0	<2.0	<2.0	<2.0	<1.0	NA*
1,2-Dichloroethane	4	<1.0	<1.0	<2.0	<2.0	<2.0	<1.0	NA*
1,2-Dichloropropane	5	<1.0	<1.0	<2.0	<2.0	<2.0	<1.0	NA*
1,3,5-Trimethylbenzene	100	<1.0	<1.0	<2.0	<2.0	<2.0	<1.0	NA*
1,3-Dichlorobenzene	NL	<1.0	<1.0	<2.0	<2.0	<2.0	<1.0	NA*
1,3-Dichloropropane	NL	<1.0	<1.0	<2.0	<2.0	<2.0	<1.0	NA*
1,4-Dichlorobenzene	10	<1.0	<1.0	<2.0	<2.0	<2.0	<1.0	NA*
2,2-Dichloropropane	NL	<4.0	<4.0	<8.0	<2.0	<8.0	<1.0	NA*
2-Butanone (MEK)	4000	<4.0	<4.0	<8.0	<8.0	<8.0	<4.0	NA*
2-Chlorotoluene	NL	<1.0	<1.0	<2.0	<2.0	<2.0	<1.0	NA*
4-Chlorotoluene	NL	<1.0	<1.0	<2.0	<2.0	<2.0	<1.0	NA*
4-Methyl-2-pentanone (MIBK)	300	<4.0	<4.0	<8.0	<8.0	<8.0	<4.0	NA*
Acetone	700	<10.0	<10.0	<20.0	<20.0	<20.0	<10.0	NA*
Allyl chloride	30	<4.0	<4.0	<8.0	<8.0	<8.0	<4.0	NA*
Benzene	2	<1.0	<1.0	<2.0	<2.0	<2.0	<1.0	NA*
Bromobenzene	NL	<1.0	<1.0	<2.0	<2.0	<2.0	<1.0	NA*
Bromochloromethane	NL	<1.0	<1.0	<2.0	<2.0	<2.0	<1.0	NA*
Bromodichloromethane	6	<1.0	<1.0	<2.0	<2.0	<2.0	<1.0	NA*
Bromoform	40	<8.0	<8.0	<16.0	<16.0	<16.0	<8.0	NA*
Bromomethane	10	<4.0	<4.0	<8.0	<8.0	<8.0	<4.0	NA*
Carbon tetrachloride	3	<4.0	<4.0	<8.0	<2.0	<8.0	<1.0	NA*
Chlorobenzene	100	<1.0	<1.0	<2.0	<2.0	<2.0	<1.0	NA*
Chloroethane	300	<1.0	<1.0	<2.0	<2.0	<2.0	<1.0	NA*
Chloroform	30	<1.0	<1.0	<2.0	<2.0	<2.0	<1.0	NA*
Chloromethane	NL	<4.0	<4.0	<8.0	**8.6**	<8.0	<4.0	NA*
cis-1,2-Dichloroethene	50	<1.0	<1.0	<2.0	<2.0	<2.0	<1.0	<5.0
cis-1,3-Dichloropropene	NL	<4.0	<4.0	<8.0	<8.0	<8.0	<4.0	NA*
Dibromochloromethane	10	<1.0	<1.0	<2.0	<2.0	<2.0	<1.0	NA*
Dibromomethane	NL	<4.0	<4.0	<8.0	<2.0	<2.0	<1.0	NA*
Dichlorodifluoromethane	1000	<1.0	<1.0	<2.0	<2.0	<2.0	<1.0	NA*
Dichlorofluoromethane	NL	<1.0	<1.0	<2.0	<2.0	<2.0	<1.0	NA*
Diethyl ether (Ethyl ether)	1000	<4.0	<4.0	<8.0	<8.0	<8.0	<4.0	NA*
Ethylbenzene	700	<1.0	<1.0	<2.0	<2.0	<2.0	<1.0	NA*
Hexachloro-1,3-butadiene	1	<4.0	<4.0	<8.0	<8.0	<8.0	<4.0	NA*
Isopropylbenzene (Cumene)	300	<1.0	<1.0	<2.0	<2.0	<2.0	<1.0	NA*
m&p-Xylene	NL	<2.0	<2.0	<4.0	<4.0	<4.0	<2.0	NA*
Methylene Chloride	5	<4.0	<4.0	<8.0	<8.0	<8.0	<4.0	NA*
Methyl-tert-butyl ether	70	<1.0	<1.0	<2.0	<2.0	<2.0	<1.0	NA*
Naphthalene	300	<4.0	<4.0	<8.0	<8.0	<8.0	<4.0	NA*
n-Butylbenzene	NL	<1.0	<1.0	<2.0	<2.0	<2.0	<1.0	NA*
n-Propylbenzene	NL	<1.0	<1.0	<2.0	<2.0	<2.0	<1.0	NA*
o-Xylene	NL	<1.0	<1.0	<2.0	<2.0	<2.0	<1.0	NA*
p-Isopropyltoluene	NL	<1.0	<1.0	<2.0	<2.0	<2.0	<1.0	NA*
sec-Butylbenzene	NL	<1.0	<1.0	<2.0	<2.0	<2.0	<1.0	NA*
Styrene	NL	<1.0	<1.0	<2.0	<2.0	<2.0	<1.0	NA*
tert-Butylbenzene	NL	<1.0	<1.0	<2.0	<2.0	<2.0	<1.0	NA*
Tetrachloroethene	5	**50.9**	**74.7**	**194**	**402**	**307**	**713**	**599**
Tetrahydrofuran	100	<10.0	<10.0	<20.0	**36.1**	<20.0	<10.0	NA*
Toluene	1000	<1.0	<1.0	<2.0	<2.0	<2.0	<1.0	NA*
trans-1,2-Dichloroethene	100	<1.0	<1.0	<2.0	<2.0	<2.0	<1.0	<5.0
trans-1,3-Dichloropropene	NL	<4.0	<4.0	<8.0	<8.0	<8.0	<4.0	NA*
Trichloroethene	5	<1.0	<1.0	**2.9**	<2.0	<2.0	<1.0	<5.0
Trichlorofluoromethane	2000	<1.0	<1.0	<2.0	<2.0	<2.0	<1.0	NA*
Vinyl chloride	0.2	<0.40	<0.40	<0.80	<0.80	<0.80	<0.40	<2.0
Xylene (Total)	10000	<3.0	<3.0	<6.0	<6.0	<6.0	<3.0	NA*

Notes:
NL: No Limit
NA*: Not Analyzed
NS: Not Sampled

1,620 Parameter detected above laboratory reporting limit
5.2 Parameter detected above MDH Health Risk Limit

TABLE 11

NATURAL ATTENUATION ANALYTICAL RESULTS (ug/L)
MN Bio Business Center
221 First Avenue SW
Rochester, Minnesota

Sample ID	DPE-1	DPE-1	DPE-2	DPE-2	DPE-3	DPE-3	DPE-4	DPE-4	DPE-5	DPE-5
Collected Date	09/28/2009 12:52	12/10/2008 13:50	09/28/2009 14:22	12/10/2008 11:45	09/28/200 9 15:25	12/10/2008 10:57	09/28/2009 10:13	12/10/2008 11:20	12/10/2008 16:45	09/24/2009 04:00
Calcium, Dissolved	NA*	**149,000**	NA*	**181,000**	NA*	**556,000**	NA*	**258,000**	**75,400**	NA*
Dissolved Organic Carbon	<2000	**4,800**	**2,000**	**2,800**	**3,700**	**6,900**	<2000	2700	4700	<2000
Iron, Dissolved	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0
Magnesium, Dissolved	NA*	**33,400**	NA*	**47,600**	NA*	**103,000**	NA*	**73,400**	**86,200**	NA*
Methane	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
Nitrate as N	**5,900**	**6,400**	**4,900**	**7,800**	**7,100**	**9,800**	**11,000**	**26,800**	**5,500**	**5,500**
Sulfate	**157,000**	**250,000**	**174,000**	**182,000**	**296,000**	**436,000**	**168,000**	**235,000**	**468,000**	**281,000**
Sulfide	<5000	<5000	<5000	<5000	<5000	<5000	<5000	<5000	<5000	<5000

Notes:
Bold: Parameter detected above laboratory reporting limit
NA*: Not Analyzed

TABLE 11

NATURAL ATTENUATION ANALYTICAL RESULTS (ug/L)
MN Bio Business Center
221 First Avenue SW
Rochester, Minnesota

Sample ID	DPE-6	DPE-6	DPE-7	DPE-7	DPE-8	DPE-8	MW14	MW-14
Collected Date	12/10/2008 14:29	09/24/2009 04:30	12/10/2008 13:15	09/24/2009 05:00	12/10/2008 09:30	09/24/2009 05:30	10/01/2009 04:00	12/03/2008 16:20
Calcium, Dissolved	**70,800**	NA*	**123,000**	NA*	**189,000**	NA*	NA*	**114,000**
Dissolved Organic Carbon	2500	<2000	**3,300**	<2000	**4,000**	**3,000**	**69,200**	**2,400**
Iron, Dissolved	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0
Magnesium, Dissolved	**17,700**	NA*	**23,400**	NA*	**36,800**	NA*	NA*	**30,400**
Methane	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	10.1	<10.0
Nitrate as N	**3,000**	**1,500**	**7,900**	**1,900**	**9,800**	**4,300**	**1,600**	**3,700**
Sulfate	**159,000**	**67,600**	**275,000**	**85,600**	**262,000**	**149,000**	**146,000**	**131,000**
Sulfide	<5000	<5000	<5000	<5000	<5000	<5000	<5000	<5000

Notes:
Bold: Parameter detected above laboratory reporting limit
NA*: Not Analyzed

TABLE 11

NATURAL ATTENUATION ANALYTICAL RESULTS (ug/L)
MN Bio Business Center
221 First Avenue SW
Rochester, Minnesota

Sample ID	MW15	MW15	MW16	MW-16	MW17	MW-17	MW18	MW-18
Collected Date	10/01/2009 04:20	12/10/2008 12:15	10/01/2009 04:25	12/03/2008 12:35	10/01/2009 05:20	12/03/2008 13:10	10/01/2009 05:46	12/03/2008 14:26
Calcium, Dissolved	NA*	**67,700**	NA*	**194,000**	NA*	**76,300**	NA*	**99,000**
Dissolved Organic Carbon	**15,700**	<2000	**49,100**	**3,500**	**9,100**	**7,500**	**5,400**	**8,500**
Iron, Dissolved	<50.0	<50.0	<50.0	<50.0	<50.0	**50.1**	**88.3**	**4,190**
Magnesium, Dissolved	NA*	**18,700**	NA*	**70,200**	NA*	**29,100**	NA*	**52,600**
Methane	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
Nitrate as N	**580**	**2,200**	**16,200**	NA*	**3,900**	NA*	<400	NA*
Sulfate	**99,900**	**87,500**	**258,000**	**253,000**	**159,000**	**199,000**	**110,000**	**115,000**
Sulfide	<5000	<5000	<5000	<5000	<5000	<5000	<5000	<5000

Notes:
Bold: Parameter detected above laboratory reporting limit
NA*: Not Analyzed

TABLE 11

NATURAL ATTENUATION ANALYTICAL RESULTS (ug/L)
MN Bio Business Center
221 First Avenue SW
Rochester, Minnesota

Sample ID Collected Date	MW-19 09/24/2009 11:40	MW-19 12/03/2008 16:59	MW20 10/01/2009 06:00	MW20 12/10/2008 10:30
Calcium, Dissolved	NA*	**245,000**	NA*	**260,000**
Dissolved Organic Carbon	<2000	**3,100**	**20,300**	**2,700**
Iron, Dissolved	<50.0	<50.0	<50.0	<50.0
Magnesium, Dissolved	NA*	**71,100**	NA*	**65,900**
Methane	**10.7**	<10.0	**274**	**17.0**
Nitrate as N	**16,800**	NA*	**8900**	**10,900**
Sulfate	**156,000**	**187,000**	**139,000**	**203,000**
Sulfide	<5000	<5000	<5000	<5000

Notes:
Bold: Parameter detected above laboratory reporting limit
NA*: Not Analyzed

TABLE 12

GROUNDWATER FIELD DATA
MN Bio Business Center
221 First Avenue SW
Rochester, Minnesota

Monitoring Well	Date Measured	Temp (Deg. C)	Conductivity @ 25 deg. C (uS/cm)	pH	Redox Potential (Eh)	Dissolved Oxygen	Head Space (ppm)
MW-14	12/3/2008	15.1	735	7.41	228	2.6	1.752
MW-14	10/1/2009	18.8	1825	7.84	181	3.6	NR
MW-14	11/16/2009	19.22	1747	6.74	47.5	3.48	NR
MW-14	2/23/2010	18.51	1693	7.54	186	2.8	NR
MW-14	5/12/2010	18.65	1539	7.5	379	5.2	NR
MW-14	8/18/2010	19.16	1088	8.24	285	5.51	NR
MW-14	11/18/2010	19.54	1137	6.95	-42	3.49	NR
MW-14	3/1/2011	18.9	996	6.2	4.3	1.34	NR
MW-14	5/19/2011	19.38	984	7.61	-19.1	2.57	NR
MW-14	8/28/2011	19.5	1711	5.59	148	3.21	NR
MW-14	11/21/2011	19.7	1123	6.92	-14.2	3.99	NR
MW-14	2/15/2012	19.3	1174	7.44	-44.9	4.58	NR
MW-14	5/17/2012	9.9	1062	7.07	-17	1.9	NR
MW-14	9/26/2012	19.4	1043	7.53	-23	6.36	NR
MW-14	12/19/2012	19.8	1119	7.42	-36	1.33	NR
MW-15	12/3/2008	13.4	735	8.18	87	3.8	279
MW-15	10/1/2009	18.4	920	8.08	167	5.22	NR
MW-15	11/16/2009	19.6	1155	7.35	200	4.53	NR
MW-15	2/22/2010	19.5	1506	7.82	916	4.27	NR
MW-15	5/12/2010	18.56	1708	7.37	84.9	6.97	NR
MW-15	8/18/2010	21.3	1593	10.6	166	6.04	NR
MW-15	11/18/2010	19.7	1446	6.14	25.8	4.86	NR
MW-15	3/1/2011	19.6	936	7.41	16.3	2.19	NR
MW-15	5/19/2011	15.4	1314	8.08	-42	2.91	NR
MW-15	8/28/2011	19.9	2051	6.65	121	5.15	NR
MW-15	11/21/2011	18.5	14	7.38	-37	97.3	NR
MW-15	2/15/2012	18.4	841	7.61	-53	4.21	NR
MW-15	5/17/2012	9.9	1223	7.49	-20	1.9	NR
MW-15	9/26/2012	19.2	1295	7.67	-30	6.3	NR
MW-15	12/19/2012	20.4	1130	7.49	-40	1.97	NR
MW-16	12/3/2008	14.5	735	8.21	-45	1.9	40
MW-16	10/1/2009	18.27	1182	7.46	214	9.68	NR
MW-16	11/16/2009	18.82	4048	6.91	170	3.67	NR
MW-16	2/22/2010	18.54	3238	7.31	115	4.17	NR
MW-16	5/12/2010	18.52	3240	7.46	209	6.29	NR
MW-16	8/18/2010	19.21	2695	10.3	49	6.26	NR
MW-16	11/18/2010	19.19	2935	7.61	-71	3.54	NR
MW-16	3/1/2011	18.93	1862	7.22	-23	1.94	NR
MW-16	5/19/2011	19.2	2476	7.76	-26	2.54	NR
MW-16	8/28/2011	19.4	3357	6.96	117	4.16	NR
MW-16	11/21/2011	19.7	2535	7.17	-26	3.35	NR
MW-16	2/15/2012	18.9	1492	7.68	-57	4.25	NR
MW-16	5/17/2012	9.9	1129	7.54	-24	1.9	NR
MW-16	9/26/2012	18.9	1126	7.4	-16	6.21	NR
MW-16	12/19/2012	19.6	2177	7.39	-10	3.61	NR
MW-17	12/3/2008	14.8	735	8.99	-99	2.6	1.3
MW-17	10/1/2009	17.8	1428	8.6	175	1.99	NR
MW-17	11/16/2009	17.62	1761	7.34	29	1.62	NR
MW-17	2/22/2010	18.25	16.08	7.66	-163	2.02	NR
MW-17	5/12/2010	18.05	1707	7.21	-82	1.96	NR
MW-17	8/18/2010	18.29	1759	10.4	15	3.51	NR
MW-17	11/18/2010	18.47	2102	7.43	-62	2.23	NR
MW-17	3/1/2011	18.5	1425	7.21	-76	1.21	NR
MW-17	5/19/2011	18.6	1371	7.87	-31	0.77	NR
MW-17	8/28/2011	19.1	2206	6.96	-116	4.1	NR
MW-17	11/21/2011	19.81	1927	7.26	-31	0.83	NR
MW-17	2/15/2012	19.04	1349	7.45	-45	0.42	NR
MW-17	5/17/2012	9.9	1000	7.54	-39	1.09	NR
MW-17	9/26/2012	18.2	753	7.03	2.1	3.02	NR
MW-17	12/19/2012	19.5	727	7.48	-40	0.43	NR

TABLE 12

GROUNDWATER FIELD DATA
MN Bio Business Center
221 First Avenue SW
Rochester, Minnesota

Monitoring Well	Date Measured	Temp (Deg. C)	Conductivity @ 25 deg. C (uS/cm)	pH	Redox Potential (Eh)	Dissolved Oxygen	Head Space (ppm)
MW-18	12/3/2008	14.9	735	8.06	-137	3.1	1.2
MW-18	10/1/2009	17.8	1497	7.75	176	1.47	NR
MW-18	11/16/2009	16.46	2588	6.6	54.7	1.09	NR
MW-18	2/22/2010	17.7	2061	7.41	-244	1.19	NR
MW-18	5/12/2010	18.11	1992	6.98	-122	2.21	NR
MW-18	8/18/2010	17.3	1876	10.3	-69	0.69	NR
MW-18	11/18/2010	17.34	1640	7.51	-66	2.7	NR
MW-18	3/1/2011	17.4	1845	6.94	-46	0.61	NR
MW-18	5/19/2011	17.5	1949	7.41	-8.5	0.91	NR
MW-18	8/28/2011	18.9	2149	6.71	2.7	1.1	NR
MW-18	11/21/2011	19.8	1840	7.31	-34	1.03	NR
MW-18	2/15/2012	18.76	1937	7.5	-86	0.71	NR
MW-18	5/17/2012	9.9	2361	6.68	-46	5.6	NR
MW-18	9/26/2012	19.3	1680	6.98	4.9	2.9	NR
MW-18	12/19/2012	19.5	1738	7.08	-18	0.6	NR
MW-19	12/3/2008	13.7	735	7.20	219	2.2	0.13
MW-19	10/1/2009	15.6	3667	7.03	163	225	NR
MW-19	11/16/2009	15.96	3482	6.13	226	3.03	NR
MW-19	2/23/2010	15.81	4277	6.88	130	5.42	NR
MW-19	5/12/2010	6.4	8955	6.25	332.2	43.55	NR
MW-19	8/18/2010	17.28	3147	6.44	157	6.61	NR
MW-19	11/18/2010	16.99	4653	6.74	-25	3.71	NR
MW-19	3/1/2011	17.8	3992	6.77	30.8	2.81	NR
MW-19	5/19/2011	16.9	3750	7.05	14	2.61	NR
MW-19	8/28/2011	17.4	4618	6.59	47	4.7	NR
MW-19	11/21/2011	17.1	64	5.18	300	5.93	NR
MW-19	2/15/2012	17.33	3772	6.23	19.7	4.25	NR
MW-19	5/17/2012	9.9	4425	7.30	-3.4	7	NR
MW-19	9/26/2012	18.14	4655	6.71	17.3	8.16	NR
MW-19	12/19/2012	17	5054	6.71	-24	2.39	NR
MW-20	12/3/2008	13.1	753	7.47	139	1.8	3.279
MW-20	10/1/2009	17.5	4008	7.31	317	6.19	NR
MW-20	11/16/2009	17.31	3760	6.8	288	3.85	NR
MW-20	2/23/2010	16.82	4720	7.23	322	5.22	NR
MW-20	5/12/2010	17.96	2410	7.16	276	7.83	NR
MW-20	8/18/2010	18.3	4559	10.1	182	8	NR
MW-20	11/18/2010	18.39	4497	7.44	-62	3.88	NR
MW-20	3/1/2011	16.6	3505	6.42	9.6	2.43	NR
MW-20	5/19/2011	18.5	3788	7.27	7.2	2.17	NR
MW-20	8/28/2011	18.7	5102	7.12	82	6.24	NR
MW-20	11/21/2011	18.45	5491	5.19	253	1.89	NR
MW-20	2/15/2012	17.95	5192	6.99	-22	4.42	NR
MW-20	5/17/2012	9.9	726	7.02	-21	1.06	NR
MW-20	9/26/2012	18.4	4277	6.99	3.6	3.9	NR
MW-20	12/19/2012	18.4	4868	6.78	-3	0.33	NR
DPE-1	12/3/2008	14.5	735	8.02	-4.9	0.9	10.5
DPE-1	9/28/2009	18.1	2584	7.64	170	4.8	NR
DPE-1	11/16/2009	18.18	2595	7.52	173	4.98	NR
DPE-1	2/22/2010	17.9	1152	6.23	255.6	8.16	NR
DPE-1	5/13/2010	18.4	2428	6.41	248	8.05	NR
DPE-1	8/18/2010	19.3	2242	10.4	286	5.54	NR
DPE-1	12/23/2010	18.61	1982	5.96	-4.7	12.57	10.1
DPE-1	3/1/2011	18.2	990	7.6	14.2	4.02	6.4
DPE-1	5/19/2011	18.9	1677	8.42	-59	4.17	NR
DPE-1	8/28/2011	18.1	2162	7.01	3	4	NR
DPE-1	11/21/2011	18.4	16.21	7.69	-53	5.89	NR
DPE-1	2/16/2012	18.14	1381	7.08	-26	5.04	NR
DPE-1	5/17/2012	9.9	1023	7.83	-57	1.09	NR
DPE-1	9/26/2012	19.1	1170	8.5	-74	5.7	NR
DPE-1	12/19/2012	18.9	1205	7.95	-64	4.24	NR

TABLE 12

GROUNDWATER FIELD DATA
MN Bio Business Center
221 First Avenue SW
Rochester, Minnesota

Monitoring Well	Date Measured	Temp (Deg. C)	Conductivity @ 25 deg. C (uS/cm)	pH	Redox Potential (Eh)	Dissolved Oxygen	Head Space (ppm)
DPE-2	12/3/2008	14.4	735	7.83	109	1.9	**2000**
DPE-2	9/28/2009	18.2	2440	8	81	7.82	NR
DPE-2	11/17/2009	18.15	4523	6.86	114	5.43	NR
DPE-2	2/22/2010	17.5	2751	7.75	283	4.57	NR
DPE-2	5/13/2010	18.1	2900	7.25	268	5.59	NR
DPE-2	8/18/2010	18.7	4401	10.4	258	5.07	NR
DPE-2	12/23/2010	17.6	962	7.09	-42	11.6	2.8
DPE-2	3/1/2011	18.6	1986	7.21	118	3.16	15.1
DPE-2	5/19/2011	18.4	1972	8	-38	2.75	NR
DPE-2	8/28/2011	18.2	3408	7.04	-62	3.6	NR
DPE-2	11/21/2011	18.5	2767	7.56	-46	2.02	NR
DPE-2	2/16/2012	18.6	1931	7.56	-51	2.37	NR
DPE-2	5/17/2012	18.9	2156	7.74	-61	4.37	NR
DPE-2	9/26/2012	19.2	943	7.9	-42	3.8	NR
DPE-2	12/19/2012	18.7	2440	7.7	-51	5.03	NR
DPE-3	12/3/2008	13.4	735	7.96	127	2.5	1684
DPE-3	9/28/2009	17.3	7799	7.95	158	7.05	NR
DPE-3	11/17/2009	17.43	4442	7.1	208	3.32	NR
DPE-3	2/22/2010	15.4	4707	7.9	310	7.59	NR
DPE-3	5/13/2010	17.1	4484	7.62	270	7.36	NR
DPE-3	8/18/2010	18.4	4992	10.5	277	6.31	NR
DPE-3	12/23/2010	16.2	5922	7.15	17	16.23	28.2
DPE-3	3/1/2011	18.8	6621	7.19	-0.6	2.01	23.5
DPE-3	5/19/2011	17.2	4847	8.12	-44	5.76	NR
DPE-3	8/28/2011	NR	5894	7.61	-41	5.3	NR
DPE-3	11/21/2011	17.6	3012	7.54	-45	2.7	NR
DPE-3	2/16/2012	17.92	4634	7.07	-25	4.85	NR
DPE-3	5/17/2012	9.9	4383	7.45	-40	1.09	NR
DPE-3	9/26/2012	17	2777	8.3	-63	7.1	NR
DPE-3	12/19/2012	18.2	4487	7.14	-21	2.07	NR
DPE-4	12/3/2008	13.5	735	7.84	114	1.9	**2000**
DPE-4	9/28/2009	17.14	3230	8.25	87.4	8.22	NR
DPE-4	11/17/2009	17.49	4057	7.16	285	5.2	NR
DPE-4	2/22/2010	17.4	2899	7.11	198	7.64	NR
DPE-4	5/13/2010	17.6	3362	7.88	242	8.61	NR
DPE-4	8/18/2010	18.3	3296	10.6	252	6.9	NR
DPE-4	12/23/2010	17.1	3227	7.46	3.9	NR	23.1
DPE-4	3/1/2011	18.8	874	7.18	144	1.9	11.5
DPE-4	5/19/2011	18.8	2168	8.21	-49	4.37	NR
DPE-4	8/28/2011	18.6	3318	7.63	-48	5.4	NR
DPE-4	11/21/2011	17.8	2265	7.38	-42	2.09	NR
DPE-4	2/16/2012	18.2	2692	7.5	-47	4.18	NR
DPE-4	5/17/2012	19.2	2579	7.45	-18	6.33	NR
DPE-4	9/26/2012	18.5	1891	8.1	-56	5.9	NR
DPE-4	12/19/2012	19.6	3637	6.62	-158	2.76	NR
DPE-5	12/3/2008	14.3	735	9.26	13	0.5	1.3
DPE-5	9/28/2009	17.06	2264	7.94	181	0.2	NR
DPE-5	11/17/2009	18.02	2921	7.58	204	4.15	NR
DPE-5	2/22/2010	16.7	3271	7.48	231	6.3	NR
DPE-5	5/13/2010	17.1	3115	7.92	274	7.54	NR
DPE-5	8/18/2010	18.3	2997	10.5	241	3.65	NR
DPE-5	12/23/2010	17.4	2216	7.12	-13	10.3	17.7
DPE-5	3/1/2011	18.5	776	7.21	22	2.87	0
DPE-5	5/19/2011	18.6	1008	8.15	-36	2.91	NR
DPE-5	8/28/2011	18.6	3219	6.69	-44	5.9	NR
DPE-5	11/21/2011	18.5	2939	7.76	-56	4.77	NR
DPE-5	2/16/2012	18.19	2280	7.95	-72	5.11	NR
DPE-5	5/17/2012	9.9	1767	7.85	-15	1.09	NR
DPE-5	9/26/2012	18.3	1972	8.5	-73	7.2	NR
DPE-5	12/19/2012	18.9	1886	9.28	-134	0.91	NR

TABLE 12

GROUNDWATER FIELD DATA
MN Bio Business Center
221 First Avenue SW
Rochester, Minnesota

Monitoring Well	Date Measured	Temp (Deg. C)	Conductivity @ 25 deg. C (uS/cm)	pH	Redox Potential (Eh)	Dissolved Oxygen	Head Space (ppm)
DPE-6	12/3/2008	14.6	735	8.12	67.1	1.9	1.2
DPE-6	9/28/2009	18.6	1086	8.39	98.6	9.8	NR
DPE-6	11/17/2009	18.7	1400	7.81	249	6.3	NR
DPE-6	2/22/2010	17.9	1248	7.81	213	5.42	NR
DPE-6	5/13/2010	18.4	1022	8.18	272	5.86	NR
DPE-6	8/18/2010	19.1	559	11.1	251	6.67	NR
DPE-6	11/18/2010	18.39	4497	7.44	-62	3.88	NR
DPE-6	12/23/2010	17.2	3341	7.11	-12	10.9	17.7
DPE-6	3/1/2011	17.9	1048	7.09	-16	2.04	6.2
DPE-6	5/19/2011	18.4	1162	8.22	-44	2.61	NR
DPE-6	8/28/2011	18.7	1800	6.82	-3	4.6	NR
DPE-6	11/21/2011	19.3	648	8.15	-76	3.49	NR
DPE-6	2/16/2012	19.07	590	7.9	-69	3.59	NR
DPE-6	5/17/2012	14.9	611	7.93	-23	6.43	NR
DPE-6	9/26/2012	19.6	461	8	50	4.3	NR
DPE-6	12/19/2012	19.6	695	7.49	-40	3.3	NR
DPE-7	12/3/2008	15.2	735	7.95	92.8	0.4	2.5
DPE-7	9/28/2009	17.15	2216	7.01	196	2.14	NR
DPE-7	11/17/2009	19.01	2095	7.97	193	5.01	NR
DPE-7	2/22/2010	18.1	1354	7.84	209	5.31	NR
DPE-7	5/13/2010	18.5	1240	7.93	272	5.19	NR
DPE-7	8/18/2010	19.7	1012	11.1	276	4.13	NR
DPE-7	11/18/2010	19.19	2535	7.61	-71	3.54	NR
DPE-7	12/23/2010	17.3	5901	7.19	-18	9.6	10.7
DPE-7	3/1/2011	18.5	996	7.01	-8	1.96	0
DPE-7	5/19/2011	18.2	2472	8.09	-43	2.97	NR
DPE-7	8/28/2011	16.9	1602	7.72	-51	9.4	NR
DPE-7	11/21/2011	19.7	727	7.92	-64	3.48	NR
DPE-7	2/16/2012	19.3	1478	7.5	-48	2.5	NR
DPE-7	5/17/2012	19.3	1366	7.68	-22	4.76	NR
DPE-7	9/26/2012	19.9	747	7.8	40	4.3	NR
DPE-7	12/19/2012	20	1045	6.88	-8.6	3.04	NR
DPE-8	12/3/2008	13.6	753	7.52	165	1.4	1056
DPE-8	9/28/2009	17.31	2826	7.93	460	6.61	NR
DPE-8	11/17/2009	1678	3604	7.2	226	5.19	NR
DPE-8	2/22/2010	16.2	2661	7.82	227	7.15	NR
DPE-8	5/13/2010	17.8	2236	8.03	267	9.06	NR
DPE-8	8/18/2010	17.6	3115	11	262	6.68	NR
DPE-8	11/18/2010	NR	NR	NR	NR	NR	NR
DPE-8	12/23/2010	17.3	4162	NR	NR	NR	11.4
DPE-8	3/1/2011	18.4	872	6.92	21	1.87	0.8
DPE-8	5/19/2011	18.4	3649	7.21	1.7	2.22	NR
DPE-8	8/28/2011	18.7	5345	7.14	-20	4.09	NR
DPE-8	11/21/2011	18.55	5100	7.2	-28	3.38	NR
DPE-8	2/16/2012	NR*	NR*	NR*	NR*	NR*	NR*
DPE-8	5/17/2012	NR*	NR*	NR*	NR*	NR*	NR*
DPE-8	9/26/2012	NR*	NR*	NR*	NR*	NR*	NR*
DPE-8	12/19/2012	NR*	NR*	NR*	NR*	NR*	NR*

Notes:
Bold - number has exceeded the range of the instrument
NR - Not Recorded
NR* - Not Recorded, well was dry

Attachments

Attachment A

Attachment A - Table 1

DPE System Operational Data
MN Bio Business Center
221 1st Avenue SW
Rochester, Minnesota

Date	Time	Extraction Well	DPE Pump Hours	Hours per Period	Days per Period	Flow Rate				DPE Air Flow (scf)	Pump Inlet Vacuum (in. Hg)	Post-MS-2 Vacuum (in. Hg)	Post-MS-1 Vacuum (in. Hg)	DPE Well/Pre-MS-1 Vacuum (in. Hg)		Pre-Manifold Vacuum (in. Hg)	DPE Well Casing Vacuum (in. H_2O)	DPE Pump Outlet Pressure		DPE Pump Outlet Temp. (Deg. F)		DPE Exhaust PID (ppm)	Extraction Well Bleed Valve % Open	DPE Pump Bleed Valve % Open	Comments
						Field (scfm)	Analog (scfm)	Analog (m^3/s)	Analog (acfm)					Analog	Field			Analog (psi)	Field (in H_2O)	Analog	Field				
6/29/2009	1640	DPE-1	88.0	88.0	NA	25	20.9	0.010	134.3	6,000	25.29	NA	NR	24.95	24.5	24.0	NR	0	0	229	200	NR	0	0	
9/4/2009	805	DPE-1	957.0	869.0	36.2	25	24.3	0.011	109.5	1,208,000	23.32	NA	9.4	9.66	9.8	9.1	86	0.02	0	307	310	34	100	0	DPE Pump Screen plugged
9/4/2009	946	DPE-1	957.0	0.0	0.0	40	36.1	0.017	120.5	1,209,000	21.01	NA	21.0	20.43	21.0	20.0	149	0	0	210	248	>4000	100	0	DPE & AS exhaust sampled
9/4/2009	1135	DPE-1	959.0	2.0	0.1	25	27.3	0.013	117.2	1,212,000	22.99	NA	22.5	22.70	22.5	22.5	>150	0	0	275	270	>4000	30	0	1 micron MS filter installed
10/15/2009	1120	DPE-1	1899.0	940.0	39.2	35	31.6	0.015	135.9	2,658,000	23.00	NA	22.5	22.22	22.5	22.5	>150	0	0	283	270	ND	20	0	Exhaust sampled
10/16/2009	621	DPE-1	1911.0	12.0	0.5	35	32.4	0.015	142.2	2,684,000	23.14	NA	22.5	22.35	22.5	22.0	>150	NR	0	291	299	ND	100	0	6-hr composite air sample collected
10/23/2009	922	DPE-3	1924.0	13.0	0.5	70	70.6	0.033	143.0	2,715,000	15.23	NA	14.1	14.58	14.0	13.8	90	0	NR	199	190	ND	100	0	
11/17/2009	1800	DPE-1	2361.0	437.0	18.2	30	28.6	0.013	144.2	3,992,000	24.02	NA	23.5	23.01	23.5	23.0	>150	0.00	0	301	300	>4000	100	0	6-hr composite air sample collected
12/17/2009	907	DPE-5	2960.0	599.0	25.0	NR	62.1	0.029	177.8	6,218,000	19.53	NA	19.0	18.70	18.9	18.9	155	0.00	0	247	248	850	NR	0	6-hr composite air sample collected
12/28/2009	1300	DPE-2	3228.0	268.0	11.2	60	60.7	0.029	187.9	7,333,000	20.31	NA	17.2	17.21	17.20	17.2	122	0.00	0	266	268	720	NR	0	
1/14/2010	923	DPE-5	3568.0	340.0	14.2	100	97.8	0.046	201.1	8,769,000	15.45	NA	14.9	14.46	NR	14.9	98	0.00	0	182	156	NR	NR	0	6-hr composite air sample collected
1/27/2010	NR	DPE-7	3789.0	221.0	9.2	75	88.6	0.042	215.3	9,633,000	17.68	NA	18.0	16.87	16.00	16.0	68	0.00	0	156	165	NR	NR	0	
2/22/2010	800	DPE-8	4161.0	372.0	15.5	105	101.5	0.048	224.8	11,221,000	16.49	NA	15.5	15.33	14.50	14.5	91	0.00	0	215	219	ND	NR	0	6-hr composite air sample collected
3/9/2010	NR	DPE-8	4472.0	311.0	13.0	105	103.6	0.049	226.1	12,597,000	16.29	NA	15.8	15.64	15.10	14.8	NR	0.00	NR	160	161	NR	NR	0	Pump inlet screen removed; DPE oil changed
3/25/2010[1]	742	DPE-2	4868.0	396.0	16.5	110	110.1	0.052	243.2	14,285,000	16.45	NA	16.1	15.66	15.10	14.9	165	0.02	0	251	248	105	100	0	6-hr composite air sample collected
4/16/2010	731	DPE-3	5308.0	440.0	18.3	72	72.7	0.034	218.0	16,587,000	20.00	18.5	18.5	19.21	18.00	18.0	130	0.03	0	255	251	17.5	100	0	6-hr composite air sample collected
5/12/2010	1330	DPE-5	5908.0	600.0	25.0	135	132.4	0.062	293.5	19,502,000	16.50	16.1	15.8	15.61	14.90	15.0	75	0.07	0	222	224	0.8	100	0	6-hr composite air sample collected
6/17/2010	1047	DPE-2	6768.0	860.0	35.8	35	36.9	0.017	146.6	22,356,000	22.43	22.5	22	21.38	21.00	21.0	210	0.08	0	287	276	8.5	100	0	6-hr composite air sample collected
7/26/2010	1100	DPE-8	7671.0	903.0	37.6	105	99.8	0.047	225.3	25,890,000	16.74	16.5	16.5	15.91	15.00	14.5	80	0.10	0	226	220	3.8	100	0	3-hr composite air sample collected due to flow controller malfunction
9/27/2010	1530	DPE-5	8222.0	551.0	23.0	135	122.7	0.058	257.6	28,334,000	15.75	15.0	15.0	14.93	14.00	14.0	90	0.02	0	211	210	>4000	100	0	30-minute composite air sample collected due to flow controller malfunction
10/18/2010	950	DPE-5	8662.0	440.0	18.3	130	128.3	0.061	275.4	30,379,000	16.06	15.1	15.1	15.31	15.00	15.0	100	0.00	0	200	198	ND	100	0	6-hr composite air sample collected
12/22/2010	1200	DPE-1	9378.0	716.0	29.8	50	51.5	0.024	219.8	37,039,000	22.95	NR	23.0	22.02	22.00	22.0	60	0.02	0	229	209	10.1	100	0	6-hr composite air sample collected
1/6/2011	800	DPE-1	9717.0	339.0	14.1	75	75.5	0.036	264.3	41,669,000	21.42	24.5	20.5	20.49	20.50	19.0	54	0.00	0	164	151	17.8	100	0	
1/20/2011	800	DPE-8	10034.0	317.0	13.2	120	119	0.056	252.2	44,097,000	15.88	15.0	15.0	15.12	NR	14.5	14	0.00	0	202	186	3.1	100	0	6-hr composite air sample collected
2/27/2011	1100	DPE-8	10969.0	935.0	39.0	100	103.6	0.049	257.7	48,884,000	17.96	18.0	16.5	17.07	16.50	16.5	84	0.00	0	224	218	0.8	100	0	6-hr composite air sample collected
3/7/2011	800	DPE-5	11014.0	45.0	1.9	115	117.8	0.056	271.7	49,157,000	17.02	NR	16.0	16.15	15.50	15.5	115	0.00	0	110	112	22.7	100	0	
3/18/2011	1330	DPE-1	11274.0	260.0	10.8	55	55	0.026	187.0	50,861,000	21.17	22.0	21.5	21.17	19.50	19.5	55	0.00	0	235	213	3.0	100	0	
3/23/2011	900	DPE-7	11277.0	3.0	0.1	75	72.7	0.034	188.6	50,872,000	18.45	18.5	17.0	17.44	16.00	16.5	30	0.00	0	209	185	8.6	100	0	6-hr composite air sample collected
4/22/2011	910	DPE-7	11995.0	718.0	29.9	75	72.7	0.034	191.4	53,741,000	18.62	18.5	17.5	17.70	17.00	17.0	29	0.02	0	240	250	5.4	100	0	6-hr composite air sample collected
5/3/2011	2100	DPE-5	12268.0	273.0	11.4	65	72.4	0.034	229.4	54,865,000	20.53	20.5	19.0	19.28	18.50	18.0	NR	0.00	0	165	168	NR	NR	NR	
5/5/2011	NR	DPE-4	12313.0	45.0	1.9	65	62.1	0.029	196.7	55,073,000	20.53	20.5	19.0	19.23	18.50	18.0	NR	0.00	0	155	149	NR	NR	NR	
5/19/2011	600	DPE-2	12645.0	332.0	13.8	40	40.9	0.019	165.5	56,604,000	22.57	22.5	22.0	21.34	19.30	19.0	125	0.00	0	234	239	7.1	100	0	6-hr composite air sample collected
6/16/2011	1200	DPE-1	13314.0	669.0	27.9	45	44	0.021	172.5	59,908,000	22.33	22.5	22.0	21.37	21.00	19.0	55	0.02	0	256	240	0.5	100	0	6-hr composite air sample collected
7/25/2011	900	DPE-1	14169.0	855.0	35.6	40	39	0.018	157.0	63,072,000	22.53	23.0	21.5	21.50	20.50	19.6	60	0.04	0	235	225	55.1	100	0	6-hr composite air sample collected
8/28/2011	1100	DPE-7	14962.0	793.0	33.0	70	68.4	0.032	200.7	66,305,000	19.78	19.5	17.0	18.71	18.00	18.1	49	0.00	0	244	225	0.0	100	0	6-hr composite air sample collected
9/29/2011	1140	DPE-4	15722.0	760.0	31.7	65	66	0.031	205.4	69,249,000	20.36	20.0	17.0	19.58	18.00	16.5	130	0.04	MF	245	225	2.8	100	0	6-hr composite air sample collected
10/18/2011	NR	DPE-4	15799.0	77.0	3.2	NR	66.7	0.031	210.4	69,540,000	20.49	NR	NR	19.83	NR	NR	NR	0.02	NR	221	NR	NR	100	0	
10/27/2011	800	DPE-2	16013.0	214.0	8.9	40	38.1	0.018	157.0	70,230,000	22.70	22.5	22.0	22.40	20.00	19.0	95	0.03	0	250	226	177.0	100	0	6-hr composite air sample collected
11/21/2011	1100	DPE-2	16619.0	606.0	25.3	40	39.2	0.018	161.5	72,526,000	22.70	22.5	21.5	22.50	19.00	18.9	151	0.03	0	256	238	365.0	100	0	6-hr composite air sample collected
1/20/2012	800	DPE-1	16879.0	260.0	10.8	50	44.7	0.021	101.9	73,361,000	16.87	16.5	15.0	16.83	14.50	14.5	50	0.00	0	201	196	5.7	100	0	
1/27/2012	900	DPE-2	17042.0	163.0	6.8	30	29.3	0.014	92.7	73,847,000	20.52	20.5	18.5	20.18	18.00	17.5	149	0.03	NR	245	224	6.4	100	0	6-hr composite air sample collected
2/16/2012	900	DPE-2	17520.0	478.0	19.9	30	27.5	0.013	104.4	75,246,000	22.08	22.0	21.0	21.64	18.00	18.5	151	0.02	0	262	235	6.0	100	0	6-hr composite air sample collected
3/16/2012	1100	DPE-4	18219.0	699.0	29.1	70	71.2	0.034	137.4	77,432,000	14.50	14.0	12.5	14.40	12.50	12.0	80	0.03	0	199	185	NA	100	0	6-hr composite air sample collected
3/27/2012	700	DPE-1	18443.0	224.0	9.3	30	29.2	0.014	101.0	78,086,000	21.32	21.0	19.5	20.73	19.00	18.5	48	0.00	0	146	148	10.3	100	0	
4/17/2012	1025	DPE-4	18964.0	521.0	21.7	30	31.3	0.015	91.7	79,504,000	19.76	19.5	18.0	19.21	18.00	17.5	130	0.02	0	229	220	13.4	100	0	6-hr composite air sample collected
5/17/2012	1000	DPE-8	19660.0	696.0	29.0	50	48.6	0.023	103.1	82,983,000	15.90	15.5	14.1	15.70	14.10	12.5	68	0.03	0	208	199	1.0	100	0	6-hr composite air sample collected
5/31/2012	1059	DPE-4	19950.0	290.0	12.1	30	25.5	0.012	81.8	83,649,000	20.65	20.0	MF	19.19	MF	MF	140	0.02	0	235	218	6.8	100	0	
6/14/2012	1017	DPE-4	20279.0	329.0	13.7	40	42	0.020	124.7	85,460,000	19.90	19.5	15.9	17.50	15.10	15.1	90	0.03	0	233	225	8.5	100	0	6-hr composite air sample collected
7/19/2012	1111	DPE-3	21119.0	840.0	35.0	50	49.6	0.023	139.7	86,992,000	19.36	18.5	14.5	15.67	15.00	15.0	126	0.05	0	239	226	15.6	100	0	6-hr composite air sample collected
8/23/2012	730	DPE-3	21872.0	753.0	31.4	35	36.1	0.017	116.6	89,163,000	20.71	20.0	10.5	10.87	11.50	11.5	75	0.00	0	240	220	NR	100	0	6-hr composite air sample collected
9/26/2012	2012	DPE-3	22695.0	823.0	34.3	46	45	0.021	126.2	91,533,000	19.31	18.5	17.0	17.95	18.50	18.5	135	0.04	0	237	220	11.3	100	0	6-hr composite air sample collected
10/26/2012	600	DPE-3	23397.0	702.0	29.3	50	45.8	0.022	128.1	93,568,000	19.28	18.5	17.0	18.32	17.00	17.0	130	0.04	0	241	220	12.2	100	0	6-hr composite air sample collected
12/21/2012	830	DPE-3	23442.0	45.0	1.9	50	49.6	0.023	144.4	93,698,000	19.70	19.0	17.0	16.60	19.00	18.0	125	0.02	0	216	200	97.0	100	0	6-hr composite air sample collected

Notes:
1: There was a typo when entering the DPE pump hours; therefore, this value was revised while entering the data from 4/16/10.
NR: Not recorded.
NA: Not applicable.
MF: Meter Failure

Attachment A - Table 2

Moisture Separator and Sump Operational Data
MN Bio Business Center
221 1st Avenue SW
Rochester, Minnesota

Date	Time	MS Vacuum Valve hours	MS pump Hours	MS Pump Flow Totalizer (gal)		MS Pump Flow Rate (gpm)		MS Pump Pressure (psi)	Elevator Sump Water Flow (gal)		Comments
				Analog	Field	Analog	Field		Analog	Field	
6/29/2009	1640	49	48	8,464	8,473	NR	10.2	NR	300	NR	
9/4/2009	805	49	96	38,299	38,213	NP	12.0	21.0	300	500	
10/15/2009	1120	49	131	62,643	64,283	NP	11.8	44.0	300	500	
10/16/2009	621	49	131	62,886	NR	NP	NR	NR	300	500	
10/23/2009	922	49	132	63,113	NR	NR	NR	NR	300	500	
11/17/2009	1800	49	148	73,800	75,787	11.09	11.2	28.0	300	NR	
12/17/2009	907	49	175	89,800	92,293	NR	10.3	30.8	330	NR	
12/28/2009	1300	49	187	97,028	99,694	NR	11.0	NR	330	NR	
1/14/2010	923	49	202	106,024	108,984	NR	10.7	36.0	330	NR	
1/27/2010	NR	49	210	111,633	114,661	12.85	12.2	16.0	330	NR	
2/22/2010	8:00	49	232	122,167	128,552	12.90	12.9	14.0	330	500	
3/9/2010	NR	50	255	131,361	137,839	12.91	12.9	14.0	330	NR	
3/25/2010	742	50	270	141,405	148,206	NR	12.9	15.0	330	500	
4/16/2010	731	50	287	154,622	161,857	12.85	12.9	14.0	330	500	
5/12/2010	1330	50	308	170,079	177,797	12.83	12.9	14.0	330	500	
6/17/2010	1047	50	337	191,958	200,398	13.90	12.9	14.0	330	500	
7/26/2010	1100	50	371	217,314	226,504	12.94	13.1	15.0	330	500	
9/27/2010	1030	50	389	228,896	240,247	13.19	13.2	14.0	350	514	
10/18/2010	950	50	408	243,396	255,417	12.70	12.9	14.0	350	514	
12/22/2010	1200	50	445	270,572	283,957	12.85	12.9	14.0	450	514	
1/6/2011	NR	50	484	292,343	306,476	12.68	12.7	14.0	450	NR	
1/20/2011	800	50	504	314,178	328,912	12.84	12.8	14.0	460	514	
2/27/2011	1100	50	547	342,283	357,774	12.77	12.8	14.0	470	514	
3/7/2011	800	170	549	343,924	359,443	12.79	12.7	14.0	470	514	
3/18/2011	1330	170	562	350,182	369,445	13.30	12.5	17.0	470	514	
3/23/2011	900	171	562	350,324	369,603	12.60	12.6	20.0	470	514	
4/22/2011[1]	910	171	608	461,499	373,802	MF	MF	18.0	470	514	
5/3/2011	2100	171	625	462,745	MF	12.80	12.8	16.0	480	NR	
5/5/2011	NR	171	628	464,860	2,307	12.66	12.3	16.0	480	NR	
5/19/2011	600	171	650	480,836	18,817	12.50	12.6	16.0	480	514	
6/16/2011	1200	171	691	487,852	27,076	MF	MF	16.0	480	514	
7/25/2011	900	171	745	606,917	MF	14.21	14.4	25.0	490	541	
8/28/2011	1100	197	875	645,249	63,442	12.80	12.9	14.0	490	NA	
9/29/2011	1140	198	921	673,352	94,268	12.07	12.5	15.0	490	515	
10/18/2011	NR	199	978	681,235	NR	NR	NR	NR	560	NR	
10/27/2011[2]	800	199	992	694,330	115,245	11.60	12.0	15.0	560	541	
11/21/2011	1100	199	1040	716,049	143,520	12.08	12.2	16.5	NR	541	
1/20/2012	800	199	1057	725,742	153,493	12.60	12.7	18.0	610	541	
1/27/2012	900	199	1065	731,337	159,280	12.20	12.2	17.0	610	541	
2/16/2012	900	199	1090	746,725	175,164	10.10	10.0	16.0	610	541	
3/16/2012	1100	199	1127	757,124	184,976	12.40	12.5	20.0	610	541	
3/27/2012	700	200	1142	764,672	192,639	11.91	12.0	18.0	610	NR	
4/17/2012	1025	206	1201	783,561	210,594	12.20	12.2	21.0	610	541	
5/17/2012	1000	211	1255	809,091	236,394	11.96	12.0	21.0	610	541	
5/31/2012	1059	215	1290	819,567	NR	11.20	11.2	20.0	610	NR	
6/14/2012	1017	220	1335	830,565	256,390	10.90	11.0	26.0	610	541	
7/19/2012	1111	220	1364	835,414	260,681	9.80	9.8	35.0	610	541	
8/23/2012	730	302	1399	849,507	275,367	13.20	13.2	12.0	610	541	
9/26/2012	2012	302	1414	860,318	286,603	14.00	14.0	8.0	610	541	
10/26/2012	600	309	1536	951,486	300,594	11.80	12.0	16.0	610	541	
12/21/2012	830	385	1662	MF[3]	302,693	MF	MF	12.0	610	541	meter failure; DPE system shut down from Oct. 26 thru Dec. 21

Notes:
NR: Not recorded.
NP: Not pumping
MF: Meter Failure
1. Discharge flowmeter malfunction caused invalid field totalizer reading; therefore, analog flow totalizer was used.
2. Analog flow totalizer reading estimated from field readings from Oct. 27 and Sept 29, 2011.
3. Flow meter and totalizer not working. The DPE system was off from Oct. 26 through Dec. 21, 2012; therefore, the volume discharged during this period was 0 gallons.

Attachment A - Table 3

Air Stripper Operational Data
MN Bio Business Center
221 1st Avenue SW
Rochester, Minnesota

Date	Time	AS Blower Hours	AS Discharge Pump Hours	AS Blower Pressure (in. H_2O)	AS Exhaust Pressure (in. H_2O)	AS Discharge Pump Pressure (psi)	AS Exhaust PID (ppm)	Comments
9/27/2010	1030	2578	192	18	7	25	ND	
10/18/2010	950	2742	204	24	5	18	ND	
12/22/2010	1200	3049	226	18	9	24	ND	
1/6/2011	800	NR	244	18	7	25	ND	
1/20/2011	800	3524	263	18	6	24	ND	
2/27/2011	1100	3867	288	17	9	26	ND	
3/7/2011	800	3885	289	18	9	25	ND	
3/18/2011	1330	4060	298	17	10	25	ND	
3/23/2011	900	4060	298	17	8	26	ND	
4/22/2011	910	4408	325	18	9	25	ND	
5/3/2011	2100	4540	335	18	NR	25	NR	
5/5/2011	NR	4564	336	18	NR	25	NR	
5/19/2011	600	4734	349	17	11	26	ND	
6/16/2011	1200	5140	374	17	NR	25	25.7	
7/25/2011	900	5575	405	17	8	25	4.3	
8/28/2011	1100	5892	432	16	9	26	0.0	
9/29/2011	1140	6332	455	17	7	25	0.0	
10/18/2011	NR	6398	458	NR	NR	NR	NR	
10/27/2011	800	6524	465	17	9	25	ND	
11/21/2011	1100	6884	485	17	9	24	ND	
1/20/2012	800	7025	493	16	9	25	ND	
1/27/2012	900	7103	498	16	8	25	ND	
2/16/2012	900	7329	510	17	9	24	ND	
3/16/2012	1100	7664	530	16	8	26	NR	
3/27/2012	700	7767	535	16	9	25	ND	
4/17/2012	1025	8019	549	16	10	24	ND	
5/17/2012	1000	8359	563	16	9	24	ND	
5/31/2012	1059	8498	574	16	8	NR	ND	
6/14/2012	1017	8602	586	17	9	18	ND	
7/19/2012	1111	8903	602	16	8	19	ND	
8/23/2012	730	9110	615	9	16	19	ND	
9/26/2012	2012	9268	626	16	9	19	ND	
10/26/2012	600	9527	638	17	11	NR	ND	
12/21/2012	830	9625	639	16	9	NR	ND	

Notes:
NR: Not recorded.
NP: Not pumping.
ND: Not detected.

Attachment A - Table 4

DPE Well Casing Vacuum Data (in. H_2O)
MN Bio Business Center
221 1st Avenue SW
Rochester, Minnesota

Date	DPE-1	DPE-2	DPE-3	DPE-4	DPE-5	DPE-6	DPE-7	DPE-8
7/9/2009	**129.0**	2.6	0.1	0.1	0.4	1.9	2.4	0.0
8/11/2009	**117.0**	0.0	0.0	0.8	0.0	2.2	2.9	0.0
9/4/2009	**86.0**	NR	NR	NR	NR	NR	NR	NR
9/4/2009	**149.0**	NR	NR	NR	NR	NR	NR	NR
9/4/2009	**>150**	NR	NR	NR	NR	NR	NR	NR
10/15/2009	**>150**	3.4	0.3	0.9	1.3	1.9	0.5	0.04
10/23/2009	0.001	0.002	**90.0**	0.001	0.002	0.002	0.003	0.001
11/17/2009	0.000	0.000	0.000	0.000	**>150**	0.000	0.000	0.000
2/22/2010	**48**	**200**	**128**	**99**	**90**	**108**	**70**	**91**
3/25/2010	**51**	**168**	**125**	**140**	**86**	**120**	**64**	**94**
4/16/2010	**48**	**210**	**130**	**130**	**98**	**88**	**55**	NA
5/12/2010	**51**	**195**	**127**	**87**	**75**	**148**	**68**	**86**
6/17/2010	**50**	**210**	**125**	**88**	**79**	**115**	**71**	**81**
7/26/10*	**10**	**158**	**126**	**148**	**100**	**115**	**70**	**80**
9/27/2010	**52**	**200**	**130**	**125**	**90**	**100**	**40**	**90**
10/18/2010	**60**	**151**	**126**	**85**	**100**	**110**	**31**	**60**
12/22/2010	**60**	**150**	**170**	**77**	**110**	**118**	**185**	**90**
1/6/2011	**54**	**149**	**120**	**148**	**75**	**98**	**30**	**70**
1/20/2011	**62**	**145**	**120**	**130**	**120**	**145**	**30**	**70**
2/27/2011	**35**	**145**	**98**	**64**	**74**	**138**	**32**	**84**
3/7/2011	**55**	**148**	**135**	**70**	**115**	**99**	**30**	**74**
3/18/2011	**55**	**148**	**150**	**130**	**115**	**100**	**35**	**80**
3/23/2011	**58**	**145**	**135**	**120**	**120**	**90**	**30**	**80**
4/22/2011	**68**	**150**	**125**	**128**	**120**	**100**	**29**	**80**
5/19/2011	**40**	**125**	**140**	**80**	**75**	**85**	**30**	**75**
6/16/2011	**55**	**200**	**125**	**130**	**120**	**100**	**40**	**85**
7/25/2011	**60**	**145**	**125**	**120**	**110**	**105**	**40**	**80**
8/28/2011	**58**	**158**	**130**	**140**	**120**	**100**	**49**	**75**
9/29/2011	**50**	**150**	**135**	**130**	**110**	**150**	**65**	**80**
10/27/2011	**50**	**150**	**124**	**89**	**100**	**128**	**48**	**74**
11/21/2011	**49**	**151**	**148**	**125**	**115**	**105**	**49**	**75**
1/20/2012	**50**	**115**	**98**	**75**	**100**	**98**	**33**	**65**
1/27/2012	**40**	**148**	**130**	**120**	**110**	**105**	**40**	**80**
2/16/2012	**40**	**151**	**147**	**128**	**110**	**108**	**50**	**80**
3/16/2012	**48**	**130**	**115**	**80**	**80**	**105**	**48**	**80**
3/27/2012	**48**	**150**	**125**	**120**	**110**	**100**	**28**	**78**
4/17/2012	**48**	**149**	**130**	**130**	**110**	**100**	**49**	**75**
5/17/2012	**42**	**98**	**126**	**90**	**100**	**98**	**30**	**68**
5/31/2012	**32**	**149**	**126**	**140**	**85**	**100**	**48**	**95**
6/14/2012	**35**	**130**	**126**	**90**	**90**	**120**	**50**	**80**
7/19/2012	**35**	**148**	**126**	**125**	**100**	**109**	**48**	**80**
8/23/2012	**27**	**112**	**75**	**95**	**78**	**75**	**25**	**60**
9/26/2012	**40**	**128**	**135**	**128**	**115**	**109**	**49**	**80**
10/26/2012	**50**	**120**	**130**	**115**	**80**	**100**	**45**	**75**
12/21/2012	**50**	**128**	**125**	**118**	**100**	**100**	**49**	**75**

Notes:
Bold indicates the current operating extraction well.
NR: Not recorded
* - DPE-1 issues

Attachment A - Table 5

DPE Well PID Readings
221 1st Avenue SW
Rochester, Minnesota

Well ID	Date	PID (ppm)	DPE Exhaust Flow Rate (scfm)	DPE Pump Inlet Vacuum (in. Hg)
DPE-1	27-Oct-09	37.0	45.0	18.00
DPE-1	16-Nov-09	4,000.0	56.3	20.28
DPE-1	17-Dec-09	4,000.0	62.1	19.53
DPE-1	28-Dec-09	1,120.0	NR	NR
DPE-1	14-Jan-10	NR	NR	NR
DPE-1	22-Feb-10	914.0	35.0	22.5
DPE-1	25-Mar-10	868.0	40.0	23
DPE-1	16-Apr-10	287.0	40.0	22
DPE-1	12-May-10	9.9	45.0	23.5
DPE-1	17-Jun-10	32.1	30.0	22
DPE-1*	26-Jul-10	1.4	40.0	19
DPE-1	27-Sep-10	>1750	82.0	18.23
DPE-1	18-Oct-10	25.0	40.0	20
DPE-1	22-Dec-10	10.1	55.0	22.95
DPE-1	6-Jan-11	17.8	82.0	20.2
DPE-1	20-Jan-11	12.1	55.0	20.9
DPE-1	27-Feb-11	6.4	61.0	20.66
DPE-1	7-Mar-11	33.4	50.0	21.23
DPE-1	18-Mar-11	3.0	57.0	21.1
DPE-1	23-Mar-11	1.3	40.0	21
DPE-1	22-Apr-11	17.5	39.0	21.26
DPE-1	19-May-11	4.4	30.0	21.5
DPE-1	16-Jun-11	27.0	37.0	22
DPE-1	25-Jul-11	55.1	35.3	21.53
DPE-1	28-Aug-11	27.5	45.5	21.4
DPE-1	29-Sep-11	12.2	46.7	22.41
DPE-1	27-Oct-11	41.7	30.0	22.6
DPE-1	21-Nov-11	580.0	44.0	22.08
DPE-1	20-Jan-12	5.7	51.6	16.79
DPE-1	27-Jan-12	12.0	34.3	20.3
DPE-1	16-Feb-12	3.5	30.6	20.65
DPE-1	16-Mar-12	NA	23.0	21.14
DPE-1	27-Mar-12	10.5	29.6	20.73
DPE-1	17-Apr-12	11.3	25.5	21.05
DPE-1	17-May-12	13.1	16.0	20.9
DPE-1	31-May-12	31.4	24.0	20.12
DPE-1	14-Jun-12	6.9	37.0	19.4
DPE-1	19-Jul-12	10.9	40.9	18.6
DPE-1	23-Aug-12	13.6	30.9	14.4
DPE-1	26-Sep-12	6.9	30.4	19.11
DPE-1	26-Oct-12	6.2	27.0	13.65
DPE-1	21-Dec-12	66.0	31.0	17

Attachment A - Table 5

DPE Well PID Readings
221 1st Avenue SW
Rochester, Minnesota

Well ID	Date	PID (ppm)	DPE Exhaust Flow Rate (scfm)	DPE Pump Inlet Vacuum (in. Hg)
DPE-2	27-Oct-09	50.6	40.0	19.00
DPE-2	16-Nov-09	0.0	39.0	22.13
DPE-2	17-Dec-09	11.8	NR	NR
DPE-2	28-Dec-09	720.0	NR	NR
DPE-2	14-Jan-10	NR	NR	NR
DPE-2	22-Feb-10	27.1	45.0	21.5
DPE-2	25-Mar-10	10.5	50.0	22
DPE-2	16-Apr-10	6.0	50.0	21
DPE-2	12-May-10	10.1	55.0	22
DPE-2	17-Jun-10	8.5	35.0	20
DPE-2	26-Jul-10	0.6	40.0	22
DPE-2	27-Sep-10	>4000	52.4	20.98
DPE-2	18-Oct-10	15.7	55.0	19
DPE-2	22-Dec-10	2.8	70.0	22.14
DPE-2	6-Jan-11	23.6	76.0	20.2
DPE-2	20-Jan-11	2.6	55.0	21.5
DPE-2	27-Feb-11	15.1	64.0	20.8
DPE-2	7-Mar-11	19.8	50.0	21.34
DPE-2	18-Mar-11	2.1	55.0	21.2
DPE-2	23-Mar-11	1.2	40.0	21
DPE-2	22-Apr-11	2.0	39.0	21.3
DPE-2	19-May-11	7.1	45.0	21
DPE-2	16-Jun-11	21.0	38.1	22.5
DPE-2	25-Jul-11	13.5	38.1	21.43
DPE-2	28-Aug-11	10.2	45.0	21.8
DPE-2	29-Sep-11	11.8	46.0	22.63
DPE-2	27-Oct-11	177.0	38.0	22
DPE-2	21-Nov-11	365.0	39.0	22.4
DPE-2	20-Jan-12	7.2	46.3	16.76
DPE-2	27-Jan-12	6.4	29.2	20.19
DPE-2	16-Feb-12	6.0	26.7	21.6
DPE-2	16-Mar-12	NA	30.0	21.5
DPE-2	27-Mar-12	14.5	25.5	21.5
DPE-2	17-Apr-12	6.4	21.6	21.69
DPE-2	17-May-12	12.1	20.4	20.87
DPE-2	31-May-12	21.2	20.0	20
DPE-2	14-Jun-12	5.0	29.0	19.7
DPE-2	19-Jul-12	5.4	31.5	18.7
DPE-2	23-Aug-12	3.6	36.0	10.8
DPE-2	26-Sep-12	4.3	31.3	19.18
DPE-2	26-Oct-12	4.6	29.0	16.8
DPE-2	21-Dec-12	56.0	32.0	17

Attachment A - Table 5

DPE Well PID Readings
221 1st Avenue SW
Rochester, Minnesota

Well ID	Date	PID (ppm)	DPE Exhaust Flow Rate (scfm)	DPE Pump Inlet Vacuum (in. Hg)
DPE-3	27-Oct-09	15.7	73.0	15.00
DPE-3	16-Nov-09	1,600.0	65.0	18.94
DPE-3	17-Dec-09	57.5	NR	NR
DPE-3	28-Dec-09	22.8	NR	NR
DPE-3	14-Jan-10	NR	NR	NR
DPE-3	22-Feb-10	43.4	70.0	19.5
DPE-3	25-Mar-10	31.4	70.0	19
DPE-3	16-Apr-10	17.5	75.0	18
DPE-3	12-May-10	23.7	80.0	20
DPE-3	17-Jun-10	18.1	55.0	18
DPE-3	26-Jul-10	0.0	65.0	17.5
DPE-3	27-Sep-10	>3260	68.6	19.5
DPE-3	18-Oct-10	36.4	85.0	17.5
DPE-3	22-Dec-10	28.2	78.0	21.75
DPE-3	6-Jan-11	23.9	109.0	18.5
DPE-3	20-Jan-11	4.5	77.0	18.6
DPE-3	27-Feb-11	23.3	82.0	18.8
DPE-3	7-Mar-11	25.6	55.0	20.1
DPE-3	18-Mar-11	8.4	65.0	18.7
DPE-3	23-Mar-11	5.8	65.0	18.5
DPE-3	22-Apr-11	31.3	66.0	18.5
DPE-3	19-May-11	8.0	65.0	19
DPE-3	16-Jun-11	34.0	60.1	20
DPE-3	25-Jul-11	23.2	63.2	18.24
DPE-3	28-Aug-11	62.8	71.0	19.4
DPE-3	29-Sep-11	18.7	73.6	19.53
DPE-3	27-Oct-11	201.0	70.6	19.2
DPE-3	21-Nov-11	429.0	68.0	19.6
DPE-3	20-Jan-12	16.2	52.3	16.03
DPE-3	27-Jan-12	4.2	50.6	17.8
DPE-3	16-Feb-12	16.8	43.0	18.09
DPE-3	16-Mar-12	NA	44.0	18.5
DPE-3	27-Mar-12	20.4	41.0	18.2
DPE-3	17-Apr-12	22.5	35.2	18.74
DPE-3	17-May-12	16.4	31.3	17.2
DPE-3	31-May-12	54.5	31.0	18.8
DPE-3	14-Jun-12	15.8	46.0	19
DPE-3	19-Jul-12	15.6	49.2	18.3
DPE-3	23-Aug-12	11.4	33.0	10.8
DPE-3	26-Sep-12	11.6	45.8	19.3
DPE-3	26-Oct-12	12.2	40.9	14.2
DPE-3	21-Dec-12	97.0	48.0	18

Attachment A - Table 5

DPE Well PID Readings
221 1st Avenue SW
Rochester, Minnesota

Well ID	Date	PID (ppm)	DPE Exhaust Flow Rate (scfm)	DPE Pump Inlet Vacuum (in. Hg)
DPE-4	27-Oct-09	23.9	35.0	22.00
DPE-4	16-Nov-09	3.7	28.6	23.94
DPE-4	17-Dec-09	4,000.0	NR	NR
DPE-4	28-Dec-09	3.4	NR	NR
DPE-4	14-Jan-10	NR	NR	NR
DPE-4	22-Feb-10	13.5	60.0	20.5
DPE-4	25-Mar-10	55.3	55.0	22
DPE-4	16-Apr-10	4,000.0	70.0	18
DPE-4	12-May-10	7.0	70.0	21
DPE-4	17-Jun-10	0.0	45.0	21
DPE-4	26-Jul-10	19.0	60.0	20
DPE-4	27-Sep-10	>2300	58.3	20.28
DPE-4	18-Oct-10	ND	64.0	17.5
DPE-4	22-Dec-10	23.1	80.0	21.25
DPE-4	6-Jan-11	13.8	102.0	19
DPE-4	20-Jan-11	3.2	72.0	19
DPE-4	27-Feb-11	11.5	67.0	20.2
DPE-4	7-Mar-11	27.9	60.0	20.45
DPE-4	18-Mar-11	5.9	62.0	19
DPE-4	23-Mar-11	6.2	60.0	19.5
DPE-4	22-Apr-11	3.5	60.0	19.5
DPE-4	19-May-11	15.6	60.0	19.5
DPE-4	16-Jun-11	49.2	52.4	21
DPE-4	25-Jul-11	3.1	56.3	19.04
DPE-4	28-Aug-11	14.0	63.0	20.4
DPE-4	29-Sep-11	2.8	66.0	20.36
DPE-4	27-Oct-11	156.0	64.0	20.5
DPE-4	21-Nov-11	120.0	65.0	20
DPE-4	20-Jan-12	8.0	51.3	16.41
DPE-4	27-Jan-12	0.0	40.9	19.7
DPE-4	16-Feb-12	8.6	37.0	19.17
DPE-4	16-Mar-12	NA	35.0	19.6
DPE-4	27-Mar-12	14.6	35.0	19.4
DPE-4	17-Apr-12	13.0	31.5	19.48
DPE-4	17-May-12	0.5	60.1	14.2
DPE-4	31-May-12	6.8	27.0	19.34
DPE-4	14-Jun-12	8.5	38.0	19
DPE-4	19-Jul-12	8.5	40.9	18.04
DPE-4	23-Aug-12	3.3	34.0	12.6
DPE-4	26-Sep-12	5.0	42.0	12.45
DPE-4	26-Oct-12	0.8	30.9	17.3
DPE-4	21-Dec-12	51.0	43.0	20

Attachment A - Table 5

DPE Well PID Readings
221 1st Avenue SW
Rochester, Minnesota

Well ID	Date	PID (ppm)	DPE Exhaust Flow Rate (scfm)	DPE Pump Inlet Vacuum (in. Hg)
DPE-5	27-Oct-09	3.8	40.0	22.00
DPE-5	16-Nov-09	4,000.0	30.4	23.88
DPE-5	17-Dec-09	850.0	NR	NR
DPE-5	28-Dec-09	4,000.0	NR	NR
DPE-5	14-Jan-10	NR	NR	NR
DPE-5	22-Feb-10	ND	100.0	16
DPE-5	25-Mar-10	5.7	75.0	18
DPE-5	16-Apr-10	4,000.0	120.0	14.5
DPE-5	12-May-10	0.8	115.0	18
DPE-5	17-Jun-10	0.0	75.0	16
DPE-5	26-Jul-10	5.7	100.0	15
DPE-5	27-Sep-10	>4000	119.0	15.78
DPE-5	18-Oct-10	ND	125.0	15
DPE-5	22-Dec-10	17.7	150.0	15.8
DPE-5	6-Jan-11	1.5	130.0	17
DPE-5	20-Jan-11	12.8	109.0	15.5
DPE-5	27-Feb-11	0.0	104.0	16.9
DPE-5	7-Mar-11	22.7	117.0	16.15
DPE-5	18-Mar-11	3.3	95.0	15.8
DPE-5	23-Mar-11	4.1	90.0	16.5
DPE-5	22-Apr-11	3.8	96.0	15.9
DPE-5	19-May-11	11.2	85.0	16.5
DPE-5	16-Jun-11	50.8	72.7	18
DPE-5	25-Jul-11	0.2	79.3	15.86
DPE-5	28-Aug-11	0.7	93.0	17.2
DPE-5	29-Sep-11	6.4	104.6	16.87
DPE-5	27-Oct-11	197.0	90.0	17.8
DPE-5	21-Nov-11	270.0	97.6	16.9
DPE-5	20-Jan-12	0.0	70.7	15.29
DPE-5	27-Jan-12	0.0	67.8	15.48
DPE-5	16-Feb-12	2.2	59.0	15.5
DPE-5	16-Mar-12	NA	52.0	17.6
DPE-5	27-Mar-12	3.6	58.0	15.9
DPE-5	17-Apr-12	4.2	46.9	16.6
DPE-5	17-May-12	1.2	46.0	16.12
DPE-5	31-May-12	2.1	36.0	18.5
DPE-5	14-Jun-12	2.4	60.0	15
DPE-5	19-Jul-12	3.5	60.4	16.5
DPE-5	23-Aug-12	1.1	42.0	11.6
DPE-5	26-Sep-12	1.4	59.0	17.2
DPE-5	26-Oct-12	0.0	51.0	14.2
DPE-5	21-Dec-12	14.7	65.0	19

Attachment A - Table 5

DPE Well PID Readings
221 1st Avenue SW
Rochester, Minnesota

Well ID	Date	PID (ppm)	DPE Exhaust Flow Rate (scfm)	DPE Pump Inlet Vacuum (in. Hg)
DPE-6	27-Oct-09	ND	55.0	17.00
DPE-6	16-Nov-09	4,000.0	66.9	18.78
DPE-6	17-Dec-09	1,680.0	NR	NR
DPE-6	28-Dec-09	901.0	NR	NR
DPE-6	14-Jan-10	NR	NR	NR
DPE-6	22-Feb-10	7.1	65.0	19
DPE-6	25-Mar-10	0.0	70.0	20
DPE-6	16-Apr-10	4,000.0	75.0	18.1
DPE-6	12-May-10	0.0	90.0	19
DPE-6	17-Jun-10	0.0	50.0	19
DPE-6	26-Jul-10	4.4	60.0	18
DPE-6	27-Sep-10	>4000	92.0	18.08
DPE-6	18-Oct-10	10.2	80.0	18.5
DPE-6	22-Dec-10	11.4	105.0	19.8
DPE-6	6-Jan-11	2.8	110.0	19
DPE-6	20-Jan-11	6.3	108.0	18
DPE-6	27-Feb-11	6.2	100.0	18.1
DPE-6	7-Mar-11	16.5	75.0	19.29
DPE-6	18-Mar-11	2.8	65.0	19
DPE-6	23-Mar-11	6.7	63.0	NR
DPE-6	22-Apr-11	5.6	57.0	19.6
DPE-6	19-May-11	7.6	60.0	19.5
DPE-6	16-Jun-11	48.2	53.5	19
DPE-6	25-Jul-11	2.5	56.3	19.21
DPE-6	28-Aug-11	4.8	62.0	20.6
DPE-6	29-Sep-11	6.6	69.8	20.26
DPE-6	27-Oct-11	127.0	65.0	20.1
DPE-6	21-Nov-11	40.0	62.0	20.4
DPE-6	20-Jan-12	0.0	57.8	16.12
DPE-6	27-Jan-12	0.0	46.7	18.49
DPE-6	16-Feb-12	0.9	37.8	18.68
DPE-6	16-Mar-12	NA	40.0	18.9
DPE-6	27-Mar-12	2.1	36.0	19.1
DPE-6	17-Apr-12	1.7	32.3	19.3
DPE-6	17-May-12	0.8	29.6	18.1
DPE-6	31-May-12	1.0	28.0	18.3
DPE-6	14-Jun-12	1.4	45.0	16
DPE-6	19-Jul-12	3.7	49.6	15.7
DPE-6	23-Aug-12	4.8	34.0	10.5
DPE-6	26-Sep-12	1.8	46.0	17.2
DPE-6	26-Oct-12	0.0	47.0	13.3
DPE-6	21-Dec-12	13.7	49.0	18

Attachment A - Table 5

DPE Well PID Readings
221 1st Avenue SW
Rochester, Minnesota

Well ID	Date	PID (ppm)	DPE Exhaust Flow Rate (scfm)	DPE Pump Inlet Vacuum (in. Hg)
DPE-7	27-Oct-09	ND	60.0	16.00
DPE-7	16-Nov-09	4,000.0	75.5	17.70
DPE-7	17-Dec-09	490.0	NR	NR
DPE-7	28-Dec-09	905.0	NR	NR
DPE-7	14-Jan-10	NR	NR	NR
DPE-7	22-Feb-10	ND	80.0	17.5
DPE-7	25-Mar-10	0.0	90.0	17
DPE-7	16-Apr-10	4,000.0	115.0	11
DPE-7	12-May-10	0.0	110.0	18
DPE-7	17-Jun-10	0.0	70.0	18
DPE-7	26-Jul-10	0.1	75.0	17
DPE-7	27-Sep-10	>4000	96.7	17.18
DPE-7	18-Oct-10	ND	105.0	15.5
DPE-7	22-Dec-10	10.7	65.0	22
DPE-7	6-Jan-11	2.4	130.0	17.5
DPE-7	20-Jan-11	0.4	100.0	18.21
DPE-7	27-Feb-11	0.0	90.0	17.9
DPE-7	7-Mar-11	29.1	95.0	16.2
DPE-7	18-Mar-11	3.1	75.0	17
DPE-7	23-Mar-11	8.6	70.0	17.5
DPE-7	22-Apr-11	5.4	72.0	17.7
DPE-7	19-May-11	6.1	70.0	18
DPE-7	16-Jun-11	47.4	56.3	20
DPE-7	25-Jul-11	0.1	60.4	18.95
DPE-7	28-Aug-11	0.0	67.0	19.8
DPE-7	29-Sep-11	6.0	82.0	18.5
DPE-7	27-Oct-11	88.0	66.0	19.7
DPE-7	21-Nov-11	10.0	66.0	19.7
DPE-7	20-Jan-12	0.0	57.8	15.9
DPE-7	27-Jan-12	0.0	52.4	17.66
DPE-7	16-Feb-12	0.3	42.1	18.2
DPE-7	16-Mar-12	NA	46.0	17.9
DPE-7	27-Mar-12	0.2	48.0	17.4
DPE-7	17-Apr-12	0.7	34.3	18.8
DPE-7	17-May-12	0.6	32.3	17.16
DPE-7	31-May-12	0.5	30.0	18.4
DPE-7	14-Jun-12	0.8	49.0	17
DPE-7	19-Jul-12	2.2	53.5	15.72
DPE-7	23-Aug-12	1.1	30.0	11.3
DPE-7	26-Sep-12	0.2	50.0	17.3
DPE-7	26-Oct-12	0.0	47.0	13.6
DPE-7	21-Dec-12	8.7	53.0	18

Attachment A - Table 5

DPE Well PID Readings
221 1st Avenue SW
Rochester, Minnesota

Well ID	Date	PID (ppm)	DPE Exhaust Flow Rate (scfm)	DPE Pump Inlet Vacuum (in. Hg)
DPE-8	27-Oct-09	ND	45.0	22.00
DPE-8	16-Nov-09	4,000.0	29.3	23.87
DPE-8	17-Dec-09	559.0	NR	NR
DPE-8	28-Dec-09	595.0	NR	NR
DPE-8	14-Jan-10	NR	NR	NR
DPE-8	22-Feb-10	ND	100.0	16
DPE-8	25-Mar-10	4,000.0	105.0	16
DPE-8	16-Apr-10	4,000.0	NA	NA
DPE-8	12-May-10	0.0	130.0	16.5
DPE-8	17-Jun-10	0.0	85.0	14
DPE-8	26-Jul-10	3.8	105.0	14.5
DPE-8	27-Sep-10	>4000	125.5	15.91
DPE-8	18-Oct-10	ND	65.0	19.5
DPE-8	22-Dec-10	11.4	150.0	15.08
DPE-8	6-Jan-11	10.2	140.0	16
DPE-8	20-Jan-11	3.1	128.0	15.92
DPE-8	27-Feb-11	0.8	97.0	17.8
DPE-8	7-Mar-11	44.6	95.0	17.5
DPE-8	18-Mar-11	3.1	80.0	16
DPE-8	23-Mar-11	7.4	90.0	15.5
DPE-8	22-Apr-11	5.1	97.0	15.1
DPE-8	19-May-11	4.9	75.0	17
DPE-8	16-Jun-11	52.3	81.3	17
DPE-8	25-Jul-11	0.5	87.0	15.4
DPE-8	28-Aug-11	0.0	104.0	15.38
DPE-8	29-Sep-11	0.3	108.0	16.7
DPE-8	27-Oct-11	79.8	102.0	16.9
DPE-8	21-Nov-11	0.6	94.0	17.3
DPE-8	20-Jan-12	0.6	72.7	15.22
DPE-8	27-Jan-12	0.0	71.0	15.06
DPE-8	16-Feb-12	0.9	63.6	15.2
DPE-8	16-Mar-12	NA	66.0	15.13
DPE-8	27-Mar-12	0.9	64.0	15.3
DPE-8	17-Apr-12	1.1	55.3	15.62
DPE-8	17-May-12	1.0	44.7	16.45
DPE-8	31-May-12	1.2	34.0	18.4
DPE-8	14-Jun-12	1.1	65.0	14
DPE-8	19-Jul-12	1.8	65.5	13.4
DPE-8	23-Aug-12	0.7	44.0	10.8
DPE-8	26-Sep-12	0.0	66.0	16.8
DPE-8	26-Oct-12	0.0	56.0	12.3
DPE-8	21-Dec-12	7.2	67.0	18

Attachment A - Table 5

DPE Well PID Readings
221 1st Avenue SW
Rochester, Minnesota

Well ID	Date	PID (ppm)	DPE Exhaust Flow Rate (scfm)	DPE Pump Inlet Vacuum (in. Hg)

* - temporarily operating with DPE-8 because of vacuum issues

Attachment A - Table 6

DPE Well Water Level Readings
221 1st Avenue SW
Rochester, Minnesota

Location	Date	Total Well Depth (ft below TOC)	Static Water Level (ft below TOC)	Static Water Column Thickness (ft)	Static Water Volume (gallons)	Operating Depth (ft below TOC)	Operating Water Column Thickness (ft)
DPE-1	23-Oct-09	21.9	14.88	7.02	4.6	21.8	0.1
DPE-1	27-Oct-09	21.9	14.54	7.36	4.8	21.9	0.0
DPE-1	16-Nov-09	21.9	14.45	7.45	4.9	21.9	0.0
DPE-1	17-Dec-09	21.9	15.13	6.77	4.4	21.8	0.1
DPE-1	14-Jan-10	21.9	15.53	6.37	4.2	21.0	0.9
DPE-1	22-Feb-10	21.9	12.22	9.68	6.3	21.9	0
DPE-1	25-Mar-10	21.9	15.72	6.18	4.0	20.9	1
DPE-1	16-Apr-10	21.9	15.88	6.02	3.9	20.34	1.56
DPE-1	12-May-10	21.9	16.48	5.42	3.5	21.8	0.1
DPE-1	17-Jun-10	21.9	16.62	5.28	3.4	NR	NR
DPE-1	18-Aug-10	21.9	16.8	5.1	3.3	22	-0.1
DPE-1	27-Sep-10	21.9	14.6	7.3	4.8	21.87	0.03
DPE-1	18-Nov-10	21.9	14.99	6.91	4.5	NR	NR
DPE-1	22-Dec-10	21.9	15.72	6.18	4.0	21.8	0.1
DPE-1	6-Jan-11	21.9	14.04	7.86	5.1	21.8	0.1
DPE-1	20-Jan-11	21.9	16.8	5.1	3.3	21.9	0
DPE-1	28-Feb-11	21.9	15.33	6.57	4.3	21.98	-0.08
DPE-1	7-Mar-11	21.9	17.27	4.63	3.0	22	-0.1
DPE-1	18-Mar-11	21.9	17.8	4.1	2.7	21.6	0.3
DPE-1	23-Mar-11	21.9	15.92	5.98	3.9	22	-0.1
DPE-1	22-Apr-11	21.9	16.61	5.29	3.5	21.8	0.1
DPE-1	19-May-11	21.9	14.59	7.31	4.8	21.2	0.7
DPE-1	16-Jun-11	21.9	15.12	6.78	4.4	21.84	0.06
DPE-1	25-Jul-11	21.9	14.35	7.55	4.9	21.14	0.76
DPE-1	28-Aug-11	21.9	13.04	8.86	5.8	21.6	0.3
DPE-1	29-Sep-11	21.9	15.89	6.01	3.9	21.89	0.01
DPE-1	18-Oct-11	21.9	14.89	7.01	4.6	21.5	0.4
DPE-1	27-Oct-11	21.9	16.65	5.25	3.4	21.8	0.1
DPE-1	21-Nov-11	21.9	17.4	4.5	2.9	21.2	0.7
DPE-1	20-Jan-12	21.9	15.39	6.51	4.2	21.9	0
DPE-1	27-Jan-12	21.9	17.19	4.71	3.1	21.8	0.1
DPE-1	16-Feb-12	21.9	18.28	3.62	2.4	21.7	0.2
DPE-1	16-Mar-12	21.9	19.3	2.6	1.7	21	0.9
DPE-1	27-Mar-12	21.9	17.95	3.95	2.6	21.6	0.3
DPE-1	17-Apr-12	21.9	16.67	5.23	3.4	21.8	0.1
DPE-1	17-May-12	21.9	16.93	4.97	3.2	21.1	0.8
DPE-1	14-Jun-12	21.9	17.05	4.85	3.2	21.6	0.3
DPE-1	19-Jul-12	21.9	17.54	4.36	2.8	21.8	0.1
DPE-1	23-Aug-12	21.9	16.68	5.22	3.4	21.6	0.3
DPE-1	26-Sep-12	21.9	16.41	5.49	3.6	16.5	5.4
DPE-1	26-Oct-12	21.9	16.75	5.15	3.4	22	-0.1
DPE-1	21-Dec-12	21.9	15.84	6.06	4.0	21.9	0

Attachment A - Table 6

DPE Well Water Level Readings
221 1st Avenue SW
Rochester, Minnesota

Location	Date	Total Well Depth (ft below TOC)	Static Water Level (ft below TOC)	Static Water Column Thickness (ft)	Static Water Volume (gallons)	Operating Depth (ft below TOC)	Operating Water Column Thickness (ft)
DPE-2	23-Oct-09	20.5	15.53	4.97	3.2	19.95	0.55
DPE-2	27-Oct-09	20.5	16.35	4.15	2.7	20.51	-0.01
DPE-2	16-Nov-09	20.5	15.19	5.31	3.5	20.8	-0.3
DPE-2	17-Dec-09	20.5	15.69	4.81	3.1	20.4	0.1
DPE-2	14-Jan-10	20.5	16.04	4.46	2.9	20.15	0.35
DPE-2	22-Feb-10	20.5	14.19	6.31	4.1	20.5	0
DPE-2	25-Mar-10	20.5	15.5	5	3.3	20	0.5
DPE-2	16-Apr-10	20.5	16.31	4.19	2.7	20.2	0.3
DPE-2	12-May-10	20.5	16.31	4.19	2.7	20.3	0.2
DPE-2	17-Jun-10	20.5	17.09	3.41	2.2	NR	NR
DPE-2	18-Aug-10	20.5	17.58	2.92	1.9	20	0.5
DPE-2	27-Sep-10	20.5	14.92	5.58	3.6	20.5	0
DPE-2	18-Nov-10	20.5	14.79	5.71	3.7	NR	NR
DPE-2	22-Dec-10	20.5	15.72	4.78	3.1	20.3	0.2
DPE-2	6-Jan-11	20.5	14.42	6.08	4.0	20.6	-0.1
DPE-2	20-Jan-11	20.5	14.98	5.52	3.6	20.2	0.3
DPE-2	28-Feb-11	20.5	14.88	5.62	3.7	20	0.5
DPE-2	7-Mar-11	20.5	15.22	5.28	3.4	20.6	-0.1
DPE-2	18-Mar-11	20.5	15.41	5.09	3.3	20.6	-0.1
DPE-2	23-Mar-11	20.5	13.62	6.88	4.5	20.3	0.2
DPE-2	22-Apr-11	20.5	14.51	5.99	3.9	20.1	0.4
DPE-2	19-May-11	20.5	14.78	5.72	3.7	20.6	-0.1
DPE-2	16-Jun-11	20.5	15	5.5	3.6	20.25	0.25
DPE-2	25-Jul-11	20.5	14.83	5.67	3.7	20.15	0.35
DPE-2	28-Aug-11	20.5	17.81	2.69	1.8	20.2	0.3
DPE-2	29-Sep-11	20.5	15.78	4.72	3.1	20.5	0
DPE-2	18-Oct-11	20.5	14.78	5.72	3.7	20.5	0
DPE-2	27-Oct-11	20.5	15.94	4.56	3.0	20.1	0.4
DPE-2	21-Nov-11	20.5	16.49	4.01	2.6	20.4	0.1
DPE-2	20-Jan-12	20.5	15.94	4.56	3.0	20.5	0
DPE-2	27-Jan-12	20.5	16.98	3.52	2.3	21	-0.5
DPE-2	16-Feb-12	20.5	17.06	3.44	2.2	20	0.5
DPE-2	16-Mar-12	20.5	17.04	3.46	2.3	20.5	0
DPE-2	27-Mar-12	20.5	16.29	4.21	2.7	20.4	0.1
DPE-2	17-Apr-12	20.5	16.76	3.74	2.4	20.6	-0.1
DPE-2	17-May-12	20.5	16.63	3.87	2.5	20.4	0.1
DPE-2	14-Jun-12	20.5	17.1	3.4	2.2	20.2	0.3
DPE-2	19-Jul-12	20.5	17.79	2.71	1.8	20.6	-0.1
DPE-2	23-Aug-12	20.5	16.9	3.6	2.4	20.6	-0.1
DPE-2	26-Sep-12	20.5	16.99	3.51	2.3	17	3.5
DPE-2	26-Oct-12	20.5	17.01	3.49	2.3	20.4	0.1
DPE-2	21-Dec-12	20.5	16.13	4.37	2.9	16	4.5

Attachment A - Table 6

DPE Well Water Level Readings
221 1st Avenue SW
Rochester, Minnesota

Location	Date	Total Well Depth (ft below TOC)	Static Water Level (ft below TOC)	Static Water Column Thickness (ft)	Static Water Volume (gallons)	Operating Depth (ft below TOC)	Operating Water Column Thickness (ft)
DPE-3	23-Oct-09	17.1	14.76	2.34	1.5	17.5	-0.4
DPE-3	27-Oct-09	17.1	14.51	2.59	1.7	17.8	-0.7
DPE-3	16-Nov-09	17.1	14.59	2.51	1.6	17.5	-0.4
DPE-3	17-Dec-09	17.1	15.28	1.82	1.2	17.2	-0.1
DPE-3	14-Jan-10	17.1	16.52	0.58	0.4	17.1	0.0
DPE-3	22-Feb-10	17.1	15.29	1.81	1.2	17.3	-0.2
DPE-3	25-Mar-10	17.1	15.68	1.42	0.9	18.3	-1.2
DPE-3	16-Apr-10	17.1	15.8	1.3	0.8	19.41	-2.31
DPE-3	12-May-10	17.1	16.26	0.84	0.5	17.2	-0.1
DPE-3	17-Jun-10	17.1	16.43	0.67	0.4	NR	NR
DPE-3	18-Aug-10	17.1	17.2	-0.1	-0.1	17	0.1
DPE-3	27-Sep-10	17.1	14.29	2.81	1.8	19.35	-2.25
DPE-3	18-Nov-10	17.1	14.62	2.48	1.6	NR	NR
DPE-3	22-Dec-10	17.1	15.62	1.48	1.0	17.1	0
DPE-3	6-Jan-11	17.1	14.5	2.6	1.7	17	0.1
DPE-3	20-Jan-11	17.1	14.99	2.11	1.4	17.3	-0.2
DPE-3	28-Feb-11	17.1	15.22	1.88	1.2	17.18	-0.08
DPE-3	7-Mar-11	17.1	15.2	1.9	1.2	17.2	-0.1
DPE-3	18-Mar-11	17.1	15.57	1.53	1.0	17.2	-0.1
DPE-3	23-Mar-11	17.1	13.88	3.22	2.1	17.2	-0.1
DPE-3	22-Apr-11	17.1	14.51	2.59	1.7	17.2	-0.1
DPE-3	19-May-11	17.1	14.96	2.14	1.4	17	0.1
DPE-3	16-Jun-11	17.1	15.83	1.27	0.8	19.2	-2.1
DPE-3	25-Jul-11	17.1	14.11	2.99	2.0	19.2	-2.1
DPE-3	28-Aug-11	17.1	15.88	1.22	0.8	17.3	-0.2
DPE-3	29-Sep-11	17.1	16.56	0.54	0.4	17.1	0
DPE-3	18-Oct-11	17.1	14.89	2.21	1.4	17.3	-0.2
DPE-3	27-Oct-11	17.1	16.82	0.28	0.2	17.5	-0.4
DPE-3	21-Nov-11	17.1	16.51	0.59	0.4	17.2	-0.1
DPE-3	20-Jan-12	17.1	16.15	0.95	0.6	17	0.1
DPE-3	27-Jan-12	17.1	17.6	-0.5	-0.3	17.3	-0.2
DPE-3	16-Feb-12	17.1	17.9	-0.8	-0.5	17.6	-0.5
DPE-3	16-Mar-12	17.1	17.51	-0.41	-0.3	17.2	-0.1
DPE-3	27-Mar-12	17.1	16.38	0.72	0.5	17.2	-0.1
DPE-3	17-Apr-12	17.1	17.28	-0.18	-0.1	17.1	0
DPE-3	17-May-12	17.1	17.08	0.02	0.0	NR	NR
DPE-3	14-Jun-12	17.1	17.42	-0.32	-0.2	17.4	-0.3
DPE-3	19-Jul-12	17.1	16.61	0.49	0.3	17	0.1
DPE-3	23-Aug-12	17.1	17.2	-0.1	-0.1	17.3	-0.2
DPE-3	26-Sep-12	17.1	17.2	-0.1	-0.1	17	0.1
DPE-3	26-Oct-12	17.1	17.29	-0.19	-0.1	17.3	-0.2
DPE-3	21-Dec-12	17.1	16.36	0.74	0.5	17	0.1

Attachment A - Table 6

DPE Well Water Level Readings
221 1st Avenue SW
Rochester, Minnesota

Location	Date	Total Well Depth (ft below TOC)	Static Water Level (ft below TOC)	Static Water Column Thickness (ft)	Static Water Volume (gallons)	Operating Depth (ft below TOC)	Operating Water Column Thickness (ft)
DPE-4	23-Oct-09	19.3	14.81	4.49	2.9	19.71	-0.41
DPE-4	27-Oct-09	19.3	14.58	4.72	3.1	19.8	-0.5
DPE-4	16-Nov-09	19.3	14.48	4.82	3.1	19.63	-0.33
DPE-4	17-Dec-09	19.3	15.44	3.86	2.5	19.3	0.0
DPE-4	14-Jan-10	19.3	16.08	3.22	2.1	19.6	-0.3
DPE-4	22-Feb-10	19.3	16.08	3.22	2.1	19.0	0.3
DPE-4	25-Mar-10	19.3	16.22	3.08	2.0	20.05	-0.75
DPE-4	16-Apr-10	19.3	16.21	3.09	2.0	20.10	-0.8
DPE-4	12-May-10	19.3	16.86	2.44	1.6	19.70	-0.4
DPE-4	17-Jun-10	19.3	16.83	2.47	1.6	NR	NR
DPE-4	18-Aug-10	19.3	16.74	2.56	1.7	19.60	-0.3
DPE-4	27-Sep-10	19.3	14.74	4.56	3.0	19.73	-0.43
DPE-4	18-Nov-10	19.3	14.93	4.37	2.9	NR	NR
DPE-4	22-Dec-10	19.3	14.89	4.41	2.9	19.20	0.1
DPE-4	6-Jan-11	19.3	14.61	4.69	3.1	19.10	0.2
DPE-4	20-Jan-11	19.3	15.15	4.15	2.7	19.00	0.3
DPE-4	28-Feb-11	19.3	15.3	4	2.6	19.2	0.1
DPE-4	7-Mar-11	19.3	15.62	3.68	2.4	19.6	-0.3
DPE-4	18-Mar-11	19.3	15.62	3.68	2.4	19.6	-0.3
DPE-4	23-Mar-11	19.3	14.04	5.26	3.4	19.2	0.1
DPE-4	22-Apr-11	19.3	14.64	4.66	3.0	19.6	-0.3
DPE-4	19-May-11	19.3	15.8	3.5	2.3	17.3	2
DPE-4	16-Jun-11	19.3	15.02	4.28	2.8	19.73	-0.43
DPE-4	25-Jul-11	19.3	14.49	4.81	3.1	17.7	1.6
DPE-4	28-Aug-11	19.3	16.58	2.72	1.8	19.6	-0.3
DPE-4	29-Sep-11	19.3	16.42	2.88	1.9	19.3	0
DPE-4	18-Oct-11	19.3	14.98	4.32	2.8	19.5	-0.2
DPE-4	27-Oct-11	19.3	16.64	2.66	1.7	19.4	-0.1
DPE-4	21-Nov-11	19.3	17.11	2.19	1.4	19.1	0.2
DPE-4	20-Jan-12	19.3	16.08	3.22	2.1	19	0.3
DPE-4	27-Jan-12	19.3	17.45	1.85	1.2	19.3	0
DPE-4	16-Feb-12	19.3	17.76	1.54	1.0	19.2	0.1
DPE-4	16-Mar-12	19.3	17.7	1.6	1.0	19.3	0
DPE-4	27-Mar-12	19.3	16.29	3.01	2.0	19.4	-0.1
DPE-4	17-Apr-12	19.3	17.61	1.69	1.1	19.6	-0.3
DPE-4	17-May-12	19.3	18.44	0.86	0.6	19.2	0.1
DPE-4	14-Jun-12	19.3	18.41	0.89	0.6	19	0.3
DPE-4	19-Jul-12	19.3	18.08	1.22	0.8	19.6	-0.3
DPE-4	23-Aug-12	19.3	17.12	2.18	1.4	19	0.3
DPE-4	26-Sep-12	19.3	17.14	2.16	1.4	19	0.3
DPE-4	26-Oct-12	19.3	17.24	2.06	1.3	19.46	-0.16
DPE-4	21-Dec-12	19.3	16.38	2.92	1.9	19.4	-0.1

Attachment A - Table 6

DPE Well Water Level Readings
221 1st Avenue SW
Rochester, Minnesota

Location	Date	Total Well Depth (ft below TOC)	Static Water Level (ft below TOC)	Static Water Column Thickness (ft)	Static Water Volume (gallons)	Operating Depth (ft below TOC)	Operating Water Column Thickness (ft)
DPE-5	23-Oct-09	18.1	13.78	4.32	2.8	18.5	-0.4
DPE-5	27-Oct-09	18.1	13.52	4.58	3.0	18.7	-0.6
DPE-5	16-Nov-09	18.1	NR	NR	NR	18.1	0.0
DPE-5	14-Jan-10	18.1	15	3.1	2.0	19.2	-1.1
DPE-5	22-Feb-10	18.1	15.01	3.09	2.0	18.2	-0.1
DPE-5	25-Mar-10	18.1	16.42	1.68	1.1	18.7	-0.6
DPE-5	16-Apr-10	18.1	15.54	2.56	1.7	18.65	-0.55
DPE-5	12-May-10	18.1	15.98	2.12	1.4	18.1	0
DPE-5	17-Jun-10	18.1	17.21	0.89	0.6	NR	NR
DPE-5	18-Aug-10	18.1	16.55	1.55	1.0	18.2	-0.1
DPE-5	27-Sep-10	18.1	13.73	4.37	2.9	18.1	0
DPE-5	18-Nov-10	18.1	14.19	3.91	2.6	NR	NR
DPE-5	22-Dec-10	18.1	15.41	2.69	1.8	18.1	0
DPE-5	6-Jan-11	18.1	14.14	3.96	2.6	18.3	-0.2
DPE-5	20-Jan-11	18.1	15.38	2.72	1.8	18	0.1
DPE-5	28-Feb-11	18.1	15.38	2.72	1.8	17.98	0.12
DPE-5	7-Mar-11	18.1	16.81	1.29	0.8	17.9	0.2
DPE-5	18-Mar-11	18.1	15.03	3.07	2.0	18	0.1
DPE-5	23-Mar-11	18.1	13.08	5.02	3.3	18.2	-0.1
DPE-5	22-Apr-11	18.1	16.26	1.84	1.2	18.3	-0.2
DPE-5	19-May-11	18.1	14.32	3.78	2.5	18.4	-0.3
DPE-5	16-Jun-11	18.1	14.73	3.37	2.2	18.44	-0.34
DPE-5	25-Jul-11	18.1	13.59	4.51	2.9	18.5	-0.4
DPE-5	28-Aug-11	18.1	16.28	1.82	1.2	18	0.1
DPE-5	29-Sep-11	18.1	15.35	2.75	1.8	18.4	-0.3
DPE-5	18-Oct-11	18.1	14.24	3.86	2.5	18	0.1
DPE-5	27-Oct-11	18.1	16.46	1.64	1.1	18	0.1
DPE-5	21-Nov-11	18.1	17.18	0.92	0.6	18	0.1
DPE-5	20-Jan-12	18.1	15.39	2.71	1.8	18	0.1
DPE-5	27-Jan-12	18.1	16.44	1.66	1.1	18.1	0
DPE-5	16-Feb-12	18.1	17.42	0.68	0.4	18	0.1
DPE-5	16-Mar-12	18.1	17.41	0.69	0.5	18.5	-0.4
DPE-5	27-Mar-12	18.1	15.62	2.48	1.6	18	0.1
DPE-5	17-Apr-12	18.1	17.08	1.02	0.7	18.3	-0.2
DPE-5	17-May-12	18.1	16.65	1.45	0.9	18.3	-0.2
DPE-5	14-Jun-12	18.1	16.95	1.15	0.8	18.2	-0.1
DPE-5	19-Jul-12	18.1	17.22	0.88	0.6	18.5	-0.4
DPE-5	23-Aug-12	18.1	16.22	1.88	1.2	18.4	-0.3
DPE-5	26-Sep-12	18.1	16.31	1.79	1.2	18	0.1
DPE-5	26-Oct-12	18.1	16.41	1.69	1.1	18	0.1
DPE-5	21-Dec-12	18.1	15.74	2.36	1.5	18.2	-0.1

Attachment A - Table 6

DPE Well Water Level Readings
221 1st Avenue SW
Rochester, Minnesota

Location	Date	Total Well Depth (ft below TOC)	Static Water Level (ft below TOC)	Static Water Column Thickness (ft)	Static Water Volume (gallons)	Operating Depth (ft below TOC)	Operating Water Column Thickness (ft)
DPE-6	23-Oct-09	19.5	14.56	4.94	3.2	19.8	-0.3
DPE-6	27-Oct-09	19.5	14.31	5.19	3.4	19.5	0.0
DPE-6	16-Nov-09	19.5	14.24	5.26	3.4	19.52	-0.02
DPE-6	17-Dec-09	19.5	14.84	4.66	3.0	19.8	-0.3
DPE-6	14-Jan-10	19.5	15.14	4.36	2.8	19.8	-0.3
DPE-6	22-Feb-10	19.5	15.61	3.89	2.5	19.1	0.4
DPE-6	25-Mar-10	19.5	15.24	4.26	2.8	19.5	0
DPE-6	16-Apr-10	19.5	15.48	4.02	2.6	19.4	0.1
DPE-6	12-May-10	19.5	16.02	3.48	2.3	19.4	0.1
DPE-6	17-Jun-10	19.5	15.98	3.52	2.3	NR	NR
DPE-6	18-Aug-10	19.5	16.56	2.94	1.9	19.3	0.2
DPE-6	27-Sep-10	19.5	13.98	5.52	3.6	19.3	0.2
DPE-6	18-Nov-10	19.5	14.24	5.26	3.4	NR	NR
DPE-6	22-Dec-10	19.5	14.89	4.61	3.0	19.2	0.3
DPE-6	6-Jan-11	19.5	13.96	5.54	3.6	19.3	0.2
DPE-6	20-Jan-11	19.5	14.2	5.3	3.5	19.2	0.3
DPE-6	28-Feb-11	19.5	14.31	5.19	3.4	NR	NR
DPE-6	7-Mar-11	19.5	14.8	4.7	3.1	19.3	0.2
DPE-6	18-Mar-11	19.5	14.87	4.63	3.0	19.4	0.1
DPE-6	23-Mar-11	19.5	14.08	5.42	3.5	19.4	0.1
DPE-6	22-Apr-11	19.5	13.52	5.98	3.9	19.4	0.1
DPE-6	19-May-11	19.5	14.09	5.41	3.5	19.1	0.4
DPE-6	16-Jun-11	19.5	14.3	5.2	3.4	19.3	0.2
DPE-6	25-Jul-11	19.5	14.64	4.86	3.2	19.3	0.2
DPE-6	28-Aug-11	19.5	15.38	4.12	2.7	19.5	0
DPE-6	29-Sep-11	19.5	15.57	3.93	2.6	19.3	0.2
DPE-6	18-Oct-11	19.5	14.2	5.3	3.5	19.8	-0.3
DPE-6	27-Oct-11	19.5	15.64	3.86	2.5	19.8	-0.3
DPE-6	21-Nov-11	19.5	15.81	3.69	2.4	19.8	-0.3
DPE-6	20-Jan-12	19.5	15.39	4.11	2.7	19.6	-0.1
DPE-6	27-Jan-12	19.5	16.29	3.21	2.1	19.6	-0.1
DPE-6	16-Feb-12	19.5	16.28	3.22	2.1	19.3	0.2
DPE-6	16-Mar-12	19.5	16.4	3.1	2.0	19.4	0.1
DPE-6	27-Mar-12	19.5	15.68	3.82	2.5	19.6	-0.1
DPE-6	17-Apr-12	19.5	16.19	3.31	2.2	19.7	-0.2
DPE-6	17-May-12	19.5	16.09	3.41	2.2	19.5	0
DPE-6	14-Jun-12	19.5	16.51	2.99	2.0	19.6	-0.1
DPE-6	19-Jul-12	19.5	16.96	2.54	1.7	19.1	0.4
DPE-6	23-Aug-12	19.5	16.51	2.99	2.0	19.2	0.3
DPE-6	26-Sep-12	19.5	16.36	3.14	2.0	19.6	-0.1
DPE-6	26-Oct-12	19.5	16.42	3.08	2.0	19.5	0
DPE-6	21-Dec-12	19.5	15.66	3.84	2.5	20	-0.5

Attachment A - Table 6

DPE Well Water Level Readings
221 1st Avenue SW
Rochester, Minnesota

Location	Date	Total Well Depth (ft below TOC)	Static Water Level (ft below TOC)	Static Water Column Thickness (ft)	Static Water Volume (gallons)	Operating Depth (ft below TOC)	Operating Water Column Thickness (ft)
DPE-7	23-Oct-09	22.2	15.68	6.52	4.3	22.2	0.0
DPE-7	27-Oct-09	22.2	15.49	6.71	4.4	22.2	0.0
DPE-7	16-Nov-09	22.2	15.44	6.76	4.4	22.17	0.03
DPE-7	17-Dec-09	22.2	16.03	6.17	4.0	22.4	-0.2
DPE-7	14-Jan-10	22.2	16.26	5.94	3.9	22.1	0.1
DPE-7	22-Feb-10	22.2	16.98	5.22	3.4	22.3	-0.1
DPE-7	25-Mar-10	22.2	16.65	5.55	3.6	22.1	0.1
DPE-7	16-Apr-10	22.2	16.71	5.49	3.6	22.3	-0.1
DPE-7	12-May-10	22.2	17.41	4.79	3.1	22	0.2
DPE-7	17-Jun-10	22.2	17.5	4.7	3.1	NR	NR
DPE-7	18-Aug-10	22.2	17.98	4.22	2.8	21.9	0.3
DPE-7	27-Sep-10	22.2	15.36	6.84	4.5	21.65	0.55
DPE-7	18-Nov-10	22.2	15.59	6.61	4.3	NR	NR
DPE-7	22-Dec-10	22.2	16.02	6.18	4.0	22.1	0.1
DPE-7	6-Jan-11	22.2	15.2	7	4.6	22	0.2
DPE-7	20-Jan-11	22.2	15.31	6.89	4.5	22.1	0.1
DPE-7	28-Feb-11	22.2	15.61	6.59	4.3	22.15	0.05
DPE-7	7-Mar-11	22.2	16.08	6.12	4.0	22.4	-0.2
DPE-7	18-Mar-11	22.2	16.08	6.12	4.0	22.1	0.1
DPE-7	23-Mar-11	22.2	14.83	7.37	4.8	21.9	0.3
DPE-7	22-Apr-11	22.2	15.6	6.6	4.3	22.4	-0.2
DPE-7	19-May-11	22.2	15.33	6.87	4.5	22.3	-0.1
DPE-7	16-Jun-11	22.2	15.58	6.62	4.3	21.95	0.25
DPE-7	25-Jul-11	22.2	14.64	7.56	4.9	21.75	0.45
DPE-7	28-Aug-11	22.2	16.96	5.24	3.4	22.6	-0.4
DPE-7	29-Sep-11	22.2	17.35	4.85	3.2	21.95	0.25
DPE-7	18-Oct-11	22.2	16.25	5.95	3.9	22.4	-0.2
DPE-7	27-Oct-11	22.2	17.46	4.74	3.1	22.3	-0.1
DPE-7	21-Nov-11	22.2	17.14	5.06	3.3	22.1	0.1
DPE-7	20-Jan-12	22.2	16.68	5.52	3.6	22	0.2
DPE-7	27-Jan-12	22.2	17.64	4.56	3.0	22.4	-0.2
DPE-7	16-Feb-12	22.2	17.69	4.51	2.9	22.1	0.1
DPE-7	16-Mar-12	22.2	17.71	4.49	2.9	22	0.2
DPE-7	27-Mar-12	22.2	17.08	5.12	3.3	22.1	0.1
DPE-7	17-Apr-12	22.2	17.41	4.79	3.1	22	0.2
DPE-7	17-May-12	22.2	17.62	4.58	3.0	22.2	0
DPE-7	14-Jun-12	22.2	17.83	4.37	2.9	22	0.2
DPE-7	19-Jul-12	22.2	18.41	3.79	2.5	22.3	-0.1
DPE-7	23-Aug-12	22.2	18.21	3.99	2.6	22.1	0.1
DPE-7	26-Sep-12	22.2	17.81	4.39	2.9	22.6	-0.4
DPE-7	26-Oct-12	22.2	17.88	4.32	2.8	22.2	0
DPE-7	21-Dec-12	22.2	17.02	5.18	3.4	22.2	0

Attachment A - Table 6

DPE Well Water Level Readings
221 1st Avenue SW
Rochester, Minnesota

Location	Date	Total Well Depth (ft below TOC)	Static Water Level (ft below TOC)	Static Water Column Thickness (ft)	Static Water Volume (gallons)	Operating Depth (ft below TOC)	Operating Water Column Thickness (ft)
DPE-8	23-Oct-09	17.5	13.18	4.32	2.8	17.3	0.2
DPE-8	27-Oct-09	17.5	13.24	4.26	2.8	17.9	-0.4
DPE-8	16-Nov-09	17.5	13.3	4.2	2.7	17.5	0.0
DPE-8	17-Dec-09	17.5	15.31	2.19	1.4	17.9	-0.4
DPE-8	14-Jan-10	17.5	16.58	0.92	0.6	17.75	-0.25
DPE-8	22-Feb-10	17.5	14.19	3.31	2.2	18.3	-0.8
DPE-8	25-Mar-10	17.5	15.72	1.78	1.2	17.8	-0.3
DPE-8	16-Apr-10	17.5	16.2	1.3	0.8	17.8	-0.3
DPE-8	12-May-10	17.5	16.61	0.89	0.6	17.5	0
DPE-8	17-Jun-10	17.5	16.92	0.58	0.4	NR	NR
DPE-8	18-Aug-10	17.5	17.21	0.29	0.2	17.8	-0.3
DPE-8	27-Sep-10	17.5	14.75	2.75	1.8	17.6	-0.1
DPE-8	18-Nov-10	17.5	15.37	2.13	1.4	NR	NR
DPE-8	22-Dec-10	17.5	15.4	2.1	1.4	17.3	0.2
DPE-8	6-Jan-11	17.5	15.18	2.32	1.5	17.7	-0.2
DPE-8	20-Jan-11	17.5	16.15	1.35	0.9	17.6	-0.1
DPE-8	28-Feb-11	17.5	16.78	0.72	0.5	17.5	0
DPE-8	7-Mar-11	17.5	15.81	1.69	1.1	17.5	0
DPE-8	18-Mar-11	17.5	15.71	1.79	1.2	17.2	0.3
DPE-8	23-Mar-11	17.5	14.2	3.3	2.2	17.5	0
DPE-8	22-Apr-11	17.5	14.61	2.89	1.9	17.4	0.1
DPE-8	19-May-11	17.5	15.18	2.32	1.5	17.1	0.4
DPE-8	16-Jun-11	17.5	15.48	2.02	1.3	17.6	-0.1
DPE-8	25-Jul-11	17.5	14.41	3.09	2.0	17.6	-0.1
DPE-8	28-Aug-11	17.5	16.91	0.59	0.4	17.4	0.1
DPE-8	29-Sep-11	17.5	16.37	1.13	0.7	17.9	-0.4
DPE-8	18-Oct-11	17.5	15.41	2.09	1.4	17.3	0.2
DPE-8	27-Oct-11	17.5	16.82	0.68	0.4	17.6	-0.1
DPE-8	21-Nov-11	17.5	17.11	0.39	0.3	17.6	-0.1
DPE-8	20-Jan-12	17.5	16.74	0.76	0.5	17.8	-0.3
DPE-8	27-Jan-12	17.5	17.43	0.07	0.0	17.4	0.1
DPE-8	16-Feb-12	17.5	DRY	NA	NA	DRY	NA
DPE-8	16-Mar-12	17.5	17.5	0	0.0	17.6	-0.1
DPE-8	27-Mar-12	17.5	16.78	0.72	0.5	17.6	-0.1
DPE-8	17-Apr-12	17.5	17.49	0.01	0.0	17.9	-0.4
DPE-8	17-May-12	17.5	DRY	NA	NA	DRY	NA
DPE-8	14-Jun-12	17.5	DRY	NA	NA	DRY	NA
DPE-8	19-Jul-12	17.5	DRY	NA	NA	DRY	NA
DPE-8	23-Aug-12	17.5	DRY	NA	NA	DRY	NA
DPE-8	26-Sep-12	17.5	DRY	NA	NA	DRY	NA
DPE-8	26-Oct-12	17.5	DRY	NA	NA	DRY	NA
DPE-8	21-Dec-12	17.5	DRY	NA	NA	DRY	NA

Notes:

1. DPE-1 groundwater elevation data from 8/28/11 appears to be a data outlier.

Attachment A - Table 6

DPE Well Water Level Readings
221 1st Avenue SW
Rochester, Minnesota

Location	Date	Total Well Depth (ft below TOC)	Static Water Level (ft below TOC)	Static Water Column Thickness (ft)	Static Water Volume (gallons)	Operating Depth (ft below TOC)	Operating Water Column Thickness (ft)

NA Not Applicable

Attachment A - Table 7

Maintenance Schedule
MN Bio Business Center
221 1st Avenue SW
Rochester, Minnesota

Maintenance Item	Sep-09	Oct-09	Nov-09	Dec-09	Jan-10	Feb-10	Mar-10	Apr-10	May-10	Jun-10	Jul-10	Aug-10[1]	Sep-10	Oct-10	Nov-10	Dec-10
DPE Pump Maintenance																
- Inspect Hoses, Piping and Fittings for Oil Leaks - MONTHLY	Sep 4	Oct 15, 16	Nov 16	Dec 17	Jan 14	Feb 22	Mar 9, 25	Apr 16	May 12	Jun 17	Jul 26	Aug 18	Sep 27	Oct 18	Nov 18	Dec 23
- Check Oil Level (level should show at middle of site glass) - MONTHLY	Sep 4	Oct 15, 16	Nov 16	Dec 17	Jan 14	Feb 22	Mar 9, 25	Apr 16	May 12	Jun 17	Jul 26	Aug 18	Sep 27	Oct 18	Nov 18	Dec 23
- Change Oil - MONTHLY							Mar 9						Sep 27			
- Clean Pump Inlet Opening							Mar 9	Apr 16	May 12	Jun 17	Jul 26	Aug 18	Sep 27	NA	NA	NA
- Inspect and Clean Pump Inlet Screen - EACH SITE VISIT	Sep 4	Oct 15, 16	Nov 6, 16, 27	Dec 4, 17, 28	Jan 14, 27	Feb 3, 10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Moisture Separator Maintenance																
- Clean Floats - MONTHLY	Sep 4	Oct 15, 16, 23, 27	Nov 16	Dec 17	Jan 14	Feb 3, 10, 16	Mar 9, 25	Apr 16	May 12	Jun 17	Jul 26	NA	Sep 27	Oct 18	Nov 18	Dec 23
- Check Sediment - MONTHLY		Oct 27	Nov 16	Dec 17	Jan 14	Feb 3, 10, 22	Mar 9, 25	Apr 16	May 12	Jun 17	Jul 26	NA	Sep 27	Oct 18	Nov 18	Dec 23
- Remove Sediment - AS NEEDED		Oct 27	Nov 16			Feb 3, 10, 22			May 12				Sep 27			
- Replace MS#1Filter (5 micron) - SEMI-ANNUALLY						Feb 26						NA	Sep 27			
- Replace MS#2 Filter (1 micron) - SEMI-ANNUALLY						Feb 26						NA	Sep 27			
- Transfer Pump (Moyno 34401 1 HP) - Inspect Hoses, Piping and Fittings	Sep 4	Oct 15, 16	Nov 16	Dec 17	Jan 14	Feb 22	Mar 9	Apr 16	May 12	Jun 17	Jul 26	NA	Sep 27	Oct 18	Nov 18	Dec 23
for Water Leaks - MONTHLY																
- Replace Transfer Pump Stator - SEMI-ANNUALLY						Feb 16						Aug 18	Sep 27			
- Clean Discharge Flow Meter - SEMI-ANNUALLY																
Air Stripper Maintenance																
- Clean Air Stripper - ANNUALLY OR AS NEEDED							Mar 25	Apr 16	May 12	Jun 17	Jul 26		Sep 27	Oct 18		
- Clean Floats - QUARTERLY						Feb 12			May 12			NA	Sep 27	Oct 18		
- Discharge Pump (Meyers CT10 1 HP) - Inspect Hoses, Piping and	Sep 4	Oct 15, 16	Nov 16	Dec 17	Jan 14	Feb 22	Mar 25	Apr 16	May 12	Jun 17	Jul 26	NA	Sep 27	Oct 18	Nov 18	Dec 23
Fittings for Water Leaks - MONTHLY																
- Blower (16N4 TBNA 3 HP) - Inspect Hoses, Piping and Fittings for	Sep 4	Oct 15, 16	Nov 16	Dec 17	Jan 14	Feb 22	Mar 25	Apr 16	May 12	Jun 17	Jul 26	NA	Sep 27	Oct 18	Nov 18	Dec 23
Leaks - MONTHLY																
Solonoid Valve Maintenance																
- Inspect - MONTHLY	Sep 4	Oct 15, 16	Nov 16	Dec 17	Jan 14	Feb 22	Mar 9, 25	Apr 16	May 12	Jun 17	Jul 26	NA	Sep 27	Oct 18	Nov 18	Dec 23
- Clean - AS NEEDED		Oct 27	Nov 6	Dec 4									Sep 27			
- Rebuild - AS NEEDED				Dec 7									Sep 27			

Notes:

Sep 4: Date task completed.
X: Task to be completed during that month.
NA: Not applicable
1: Some maintenance was not performed because of DPE pump oil leak.

Attachment A - Table 7

Maintenance Schedule
MN Bio Business Center
221 1st Avenue SW
Rochester, Minnesota

Maintenance Item	Jan-11	Feb-11	Mar-11	Apr-11	May-11	Jun-11	Jul-11	Aug-11	Sep-11	Oct-11	Nov-11	Dec-11
DPE Pump Maintenance												
- Inspect Hoses, Piping and Fittings for Oil Leaks - MONTHLY	Jan 6, 20	Feb 28	Mar 18, 23	Apr, 22	May, 19	Jun 15	Jul 25	Aug 28	Sep 11	Oct 27	Nov 21	
- Check Oil Level (level should show at middle of site glass) - MONTHLY	Jan 6, 20	Feb 28	Mar 18, 23	Apr, 22	May, 19	Jun 15	Jul 25	Aug 28	Sep 11	Oct 27	Nov 21	
- Change Oil - MONTHLY		Feb 28	Mar 23	Apr, 22	May, 19	Jun 15,	Jul 25	Aug 28	Sep 11	Oct 27	Nov 21	
- Clean Pump Inlet Opening	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
- Inspect and Clean Pump Inlet Screen - EACH SITE VISIT	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Moisture Separator Maintenance												
- Clean Floats - MONTHLY	Jan 6, 20	Feb 28	Mar 7, 18, 23	Apr, 22	May, 19	Jun 15,	Jul 25	Aug 28	Sep 11	Oct 18		
- Check Sediment - MONTHLY	Jan 6, 20	Feb 28	Mar 7, 18, 23	Apr, 22	May, 19	Jun 15,	Jul 25	Aug 28	Sep 11	Oct 18		
- Remove Sediment - AS NEEDED			Mar 7			Jun 15,						
- Replace MS#1Filter (5 micron) - SEMI-ANNUALLY									Sep 11			
- Replace MS#2 Filter (1 micron) - SEMI-ANNUALLY									Sep 11			
- Transfer Pump (Moyno 34401 1 HP) - Inspect Hoses, Piping and Fittings	Jan 6, 20	Feb 28	Mar 7, 18, 23	Apr, 22	May, 19	Jun 15,	Jul 25	Aug 28	Sep 11	Oct 18, 27	Nov 21	
for Water Leaks - MONTHLY												
- Replace Transfer Pump Stator - SEMI-ANNUALLY			Mar 18		May, 19		Jul 25	Aug 28		Oct 18		
- Clean Discharge Flow Meter - SEMI-ANNUALLY												
Air Stripper Maintenance												
- Clean Air Stripper - ANNUALLY OR AS NEEDED	Jan 6, 20		Mar 18	Apr, 22	May, 19		Jul 25			Oct 18	Nov 21	
- Clean Floats - QUARTERLY			Mar 18					Aug 28		Oct 18		
- Discharge Pump (Meyers CT10 1 HP) - Inspect Hoses, Piping and	Jan 6, 20	Feb 28	Mar 7, 18	Apr, 22	May, 19	Jun 15,	Jul 25	Aug 28	Sep 11	Oct 18	Nov 21	
Fittings for Water Leaks - MONTHLY												
- Blower (16N4 TBNA 3 HP) - Inspect Hoses, Piping and Fittings for	Jan 6, 20	Feb 28	Mar 7, 18	Apr, 22	May, 19	Jun 15,	Jul 25	Aug 28	Sep 11	Oct 18, 27	Nov 21	
Leaks - MONTHLY												
Solonoid Valve Maintenance												
- Inspect - MONTHLY	Jan 6, 20	Feb 28	Mar 18	Apr, 22	May, 19	Jun 15,	Jul 25	Aug 28	Sep 11	Oct 18	Nov 21	
- Clean - AS NEEDED	Jan 6, 20		Mar 18									
- Rebuild - AS NEEDED	Jan 6, 20	Feb 28						Aug 28				

Notes:

Sep 4: Date task completed.
X: Task to be completed during that month.
NA: Not applicable
1: Some maintenance was not performed because of DPE pump oil leak.

Attachment A - Table 7

Maintenance Schedule
MN Bio Business Center
221 1st Avenue SW
Rochester, Minnesota

Maintenance Item	Jan-12	Feb-12	Mar-12	Apr-12	May-12	Jun-12	Jul-12	Aug-12	Sep-12	Oct-12	Nov-12	Dec-12
DPE Pump Maintenance												
- Inspect Hoses, Piping and Fittings for Oil Leaks - MONTHLY	Jan 20,27	Feb 16	Mar 16,27	Apr 17	May 17, 31	Jun 14	July 19	Aug 23	Sept 26	Oct 26	DPE OFF	Dec 21
- Check Oil Level (level should show at middle of site glass) - MONTHLY	Jan 20,27	Feb 16	Mar 16,27	Apr 17	May 17, 31	Jun 14	July 19	Aug 23	Sept 26	Oct 26	DPE OFF	Dec 21
- Change Oil - MONTHLY	Jan 27,20	Feb 16	Mar 16,27	Apr 17	May 17, 31	Jun 14	July 19	Aug 23	Sept 26	Oct 26	DPE OFF	Dec 21
- Clean Pump Inlet Opening	NA	NA	NA	NA	NA	Jun 14	NA	NA	NA	NA	NA	NA
- Inspect and Clean Pump Inlet Screen - EACH SITE VISIT	NA	NA	Mar 16,27	NA	NA	Jun 14	NA	NA	NA	NA	NA	NA
Moisture Separator Maintenance												
- Clean Floats - MONTHLY	Jan 20,27	Feb 16	Mar 16	Apr 17	May 17, 31	Jun 14	July 19	Aug 23	Sept 26	Oct 26	DPE OFF	Dec 21
- Check Sediment - MONTHLY	Jan 20,27	Feb 16	Mar 16	Apr 17	May 17, 31	Jun 14	July 19	Aug 23	Sept 26	Oct 26	DPE OFF	Dec 21
- Remove Sediment - AS NEEDED	Jan 20		Mar 16									Dec 21
- Replace MS#1Filter (5 micron) - SEMI-ANNUALLY							July 25				DPE OFF	
- Replace MS#2 Filter (1 micron) - SEMI-ANNUALLY							July 25				DPE OFF	
- Transfer Pump (Moyno 34401 1 HP) - Inspect Hoses, Piping and Fittings	Jan 27	Feb 16	Mar 16	Apr 17	May 17, 31	Jun 14	July 19	Aug 23	Sept 26	Oct 26	DPE OFF	Dec 21
for Water Leaks - MONTHLY												
- Replace Transfer Pump Stator - SEMI-ANNUALLY							July 25				DPE OFF	
- Clean Discharge Flow Meter - SEMI-ANNUALLY						Jun 14	July 25					
Air Stripper Maintenance												
- Clean Air Stripper - ANNUALLY OR AS NEEDED	Jan 20,27	Feb 16	Mar 16		May 17		July 19	Aug 23	Sept 26	Oct 26	DPE OFF	Dec 21
- Clean Floats - QUARTERLY	Jan 20,27	Feb 16	Mar 16,27	Apr 17		Jun 14	July 19	Aug 23	Sept 26			Dec 21
- Discharge Pump (Meyers CT10 1 HP) - Inspect Hoses, Piping and	Jan 20,27	Feb 16	Mar 16	Apr 17	May 17		July 19	Aug 23	Sept 26	Oct 26	DPE OFF	Dec 21
Fittings for Water Leaks - MONTHLY												
- Blower (16N4 TBNA 3 HP) - Inspect Hoses, Piping and Fittings for	Jan 20,27	Feb 16	Mar 16	Apr 17	May 17		July 19	Aug 23	Sept 26	Oct 26	DPE OFF	Dec 21
Leaks - MONTHLY												
Solonoid Valve Maintenance												
- Inspect - MONTHLY	Jan 20,27	Feb 16	Mar 16	Apr 17	May 17, 31	Jun 14	July 19	Aug 23	Sept 26	Oct 26	DPE OFF	Dec 21
- Clean - AS NEEDED	Jan 20											
- Rebuild - AS NEEDED			Mar 16				July 19			Oct 26		

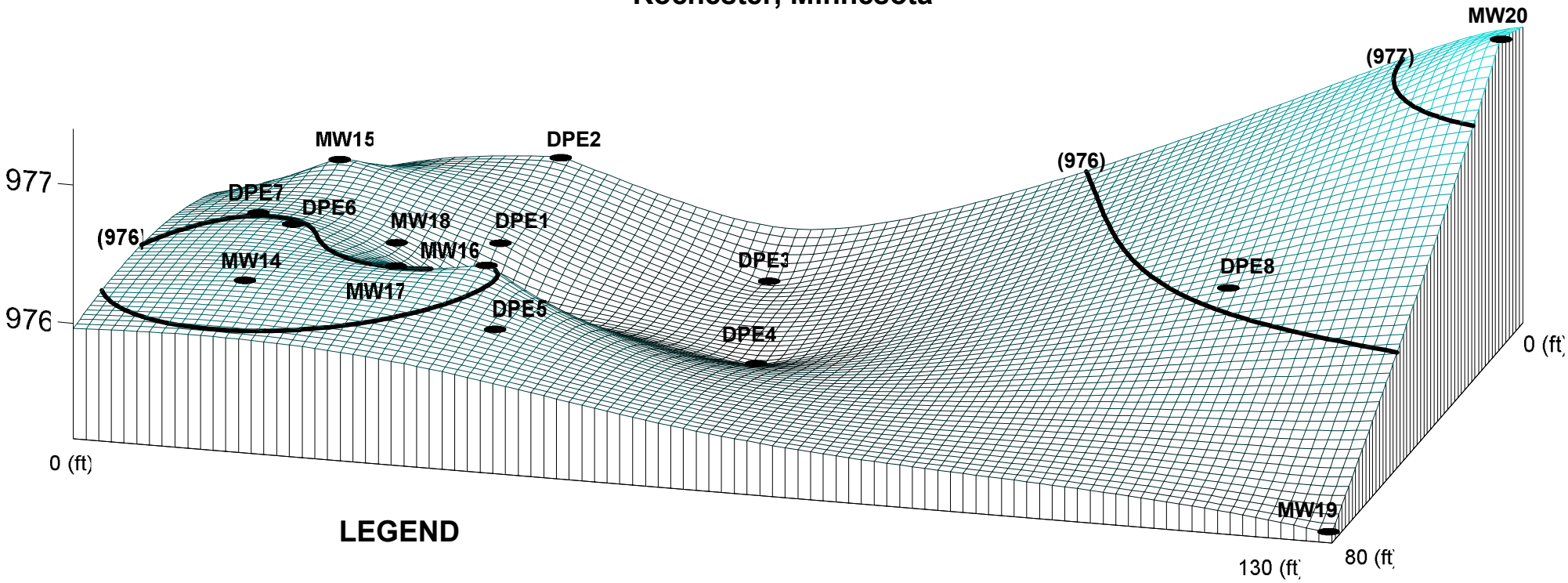
Notes:

Sep 4: Date task completed.
X: Task to be completed during that month.
NA: Not applicable
1: Some maintenance was not performed because of DPE pump oil leak.

ATTACHMENT A FIGURE 1A

3D GROUNDWATER FLOW INTERPRETATION
October 26, 2012

MN Bio Business Center
221 First Avenue S.W.
Rochester, Minnesota



LEGEND

● DPE and Monitoring Well Location

(976) Groundwater Elevation (feet above mean sea level)

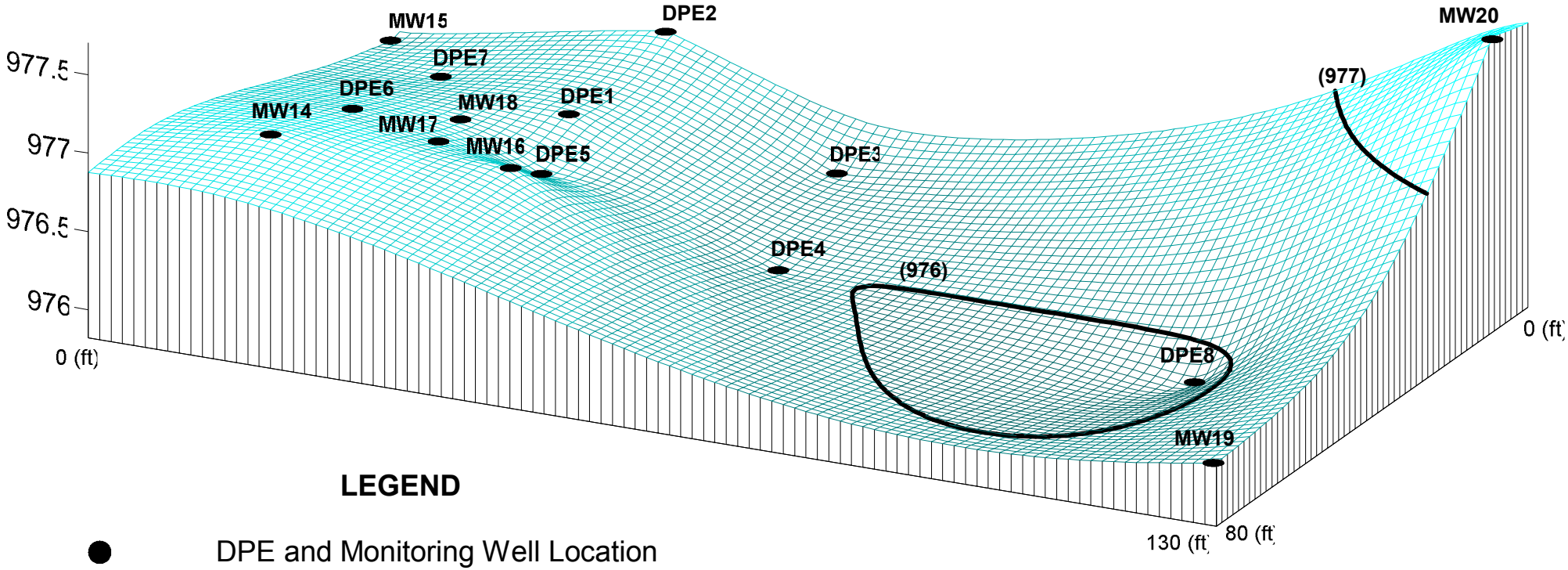
977.6 977.4 977.2 977 976.8 976.6 976.4 976.2 976 975.8 975.6 975.4 975.2 975

1. MW-17 and 18 are not shallow wells; therefore, the data from these wells was not used in the contouring calculations.

ATTACHMENT A FIGURE 1B

3D GROUNDWATER FLOW INTERPRETATION
December 19, 2012

MN Bio Business Center
221 First Avenue S.W.
Rochester, Minnesota



LEGEND

● DPE and Monitoring Well Location

(976) Groundwater Elevation (feet above mean sea level)

977 976.8 976.6 976.4 976.2 976 975.8 975.6 975.4 975.2 975

1. MW-17 and 18 are not shallow wells; therefore, the data from these wells was not used in the contouring calculations.

FIELD DATA SHEET 1 of 2 (REVISED 4/13/10)

CLIENT NAME: CITY OF ROCHESTER
PROJECT ID: CRC
PROJECT NAME: MN BIO BUSINESS CENTER

DATE: 10/26/12
TIME: 0600
RECORDED BY:

2009 SYSTEM STARTUP INFORMATION
Startup Date: 6/29/2009 MS Discharge Totalizer: 68 Sump Discharge Totalizer: 200

NOTES - LEAVE VACUUM RELIEF VALVE SELECTOR SWITCH IN OFF POSITION
LEAVE AIR STRIPPER SELECTOR SWITCHES IN AUTO POSITION

CURRENT OPERATING WELL:
DPE WELL BLEED VALVE % OPEN:
DPE PUMP BLEED VALVE % OPEN:

ANALOG PANEL READINGS
DPE PUMP AIR FLOW (SCFM): ~~40~~ 45.0
DPE WELL VACUUM (IN. HG): ~~18.0~~ 18.32
DPE PUMP INLET VACUUM (IN. HG): ~~20.0~~ 19.28 #3
DPE PUMP OUTLET PRESSURE (PSI): .04
DPE PUMP OUTLET TEMP (DEG. F): 241
MS PUMP WATER FLOW (GPM): 11.8

TOTAL PANEL READINGS
DPE VACUUM PUMP (HRS): 23397
MS PUMP (HRS): 1536
MS VACUUM VALVE (HRS): 309
AIR STRIPPER BLOWER (HRS): 9527
AIR STRIPPER PUMP (HRS): 638
DPE AIR FLOW (SCF): 935680000
MS PUMP WATER FLOW (GAL): 951486
SUMP PUMP WATER FLOW (GAL): 610

FIELD MEASUREMENTS
DPE WELL CASING VACUUM (MM HG): ~~18.0~~ 17.0
PRE-MANIFOLD VACUUM (IN. HG): ~~13.0~~ 17.0
DPE WELL (PRE-MS-1) VACUUM (IN.HG): ~~13.5~~ 17.0
POST-MS-1 VACUUM (IN. HG): ~~17.5~~ 17.0
POST-MS-2 VACUUM (IN. HG): ~~18.0~~ 18.5
DPE PUMP AIR FLOW (SCFM): ~~40~~ 50
DPE EXHAUST PID CONC. (PPM): 12.2
DPE PUMP OUTLET PRESSURE (IN. H2O)): 0
DPE PUMP OUTLET TEMP (DEG. F): 220

MS PUMP WATER FLOWRATE (WHILE PUMPING) (GPM): 12
MS PUMP WATER PRESSURE (WHILE PUMPING) (PSI): 16
MS PUMP FLOW TOTALIZER READING (GAL): 300594

AS EXHAUST PRESSURE (IN. H20): 11
AS DISCHARGE PUMP PRESSURE (WHILE PUMPING) (PSI):
AS BLOWER PRESSURE (IN. H20): 17
AS EXHAUST PID (PPM): ND

ELEVATOR DRAIN TILE SUMP FLOW TOTALIZER (GAL): 541

STATIC WATER LEVELS

	Clean to Dirty Ranking	Well Depth below TOC (FT)	Depth to Water below TOC (FT)
MW-14	3	17.5	13.43
MW-15	4	18	16.26
MW-16	10	18	14.16
MW-17	7	25	14.68
MW-18	6	60	15.82
MW-19	1	20	15.89
MW-20	8	16.7	14.09
DPE-1	15	21.9	16.75
DPE-2	13	20.5	17.01
DPE-3	14	17.1	17.29
DPE-4	12	19.3	17.24
DPE-5	9	18.1	16.41
DPE-6	5	19.5	16.42
DPE-7	2	22.2	17.88
DPE-8	11	17.5	Dry
Sump	1	7.74	7.41

OPERATING WATER LEVELS

DPE-1	22
DPE-2	20.4
DPE-3	17.3
DPE-4	19.6
DPE-5	18.0
DPE-6	19.5
DPE-7	22.2
DPE-8	17.6

SUMP ROOM PID: ND

BASEMENT PID READINGS: ND

COMMENTS/MAINTENANCE:

FIELD DATA SHEET 2 of 2 (REVISED 4/13/10)

CLIENT NAME: CITY OF ROCHESTER
PROJECT ID: CRC
PROJECT NAME: MN BIO BUSINESS CENTER

DATE: 10/26/12
TIME: 06:00
RECORDED BY: JEG

	PID READINGS	DPE EXHAUST FLOW RATE	DPE PUMP INLET VACUUM	WELL CASING VACUUMS
DPE-1	6.2	27	13.65	50
DPE-2	4.6	29	16.8	120
DPE-3	12.2	~~30~~ 40.9	14.2	130
DPE-4	0.8	30.5	17.3	115
DPE-5	0.0	51	14.2	80
DPE-6	0.0	47	13.3	100
DPE-7	0.0	47	13.6	45
DPE-8	0.0	56	12.3	75

MAINTENANCE CHECKLIST (Revised 4/13/10)

MN Bio Business Center
221 1st Avenue SW
Rochester, MN

Date: 10/26/12

Field Represenative:

	Check Box	OBSERVATIONS AND/OR DESCRIPTION OF MAINTENANCE PERFORMED
DPE Pump Maintenance		
- Inspect Hoses, Piping and Fittings for Oil Leaks - MONTHLY	✓	
- Check Oil Level (level should show at middle of site glass) - MONTHLY	✓	
- Change Oil - MONTHLY	Yes	
- Clean Pump Inlet Opening - MONTHLY	✓	
Moisture Separator Maintenance		
- Clean Floats - MONTHLY	✓	
- Check Sediment - MONTHLY	✓	
- Remove Sediment - MONTHLY	NA	
- Replace MS#1 Filter (5 micron) - If Pressure Drop Occurs	NA	
- Replace MS#2 Filter (1 micron) - If Pressure Drop Occurs	NA	
- Transfer Pump (Moyno 34401 1 HP) - Inspect Hoses, Piping and Fittings for Water Leaks - MONTHLY	✓	
- Replace Transfer Pump Stator - SEMI-ANNUALLY	NA	
- Clean Discharge Flow Meter - SEMI-ANNUALLY	✓	
Air Stripper Maintenance		
- Clean Air Stripper - ANNUALLY OR AS NEEDED	NA	
- Clean Floats - Quarterly	✓	
- Discharge Pump (Meyers CT10 1 HP) - Inspect Hoses, Piping and Fittings for Water Leaks - MONTHLY	✓	
- Blower (16N4 TBNA 3 HP) - Inspect Hoses, Piping and Fittings for Leaks - MONTHLY	✓	
Solonoid Valve Maintenance		
- Inspect - MONTHLY	✓	
- Clean - AS NEEDED	✓	Rebuilt #3 and 2 boosts

Water meter failing

FIELD DATA SHEET 1 of 2 (REVISED 4/13/10)

Redirk 12/19/12

CLIENT NAME: CITY OF ROCHESTER
PROJECT ID: CRC
PROJECT NAME: MN BIO BUSINESS CENTER

DATE: 12/21/12
TIME:
RECORDED BY:

2009 SYSTEM STARTUP INFORMATION
Startup Date: 6/29/2009 MS Discharge Totalizer: 68 Sump Discharge Totalizer: 200

NOTES - LEAVE VACUUM RELIEF VALVE SELECTOR SWITCH IN OFF POSITION
LEAVE AIR STRIPPER SELECTOR SWITCHES IN AUTO POSITION

CURRENT OPERATING WELL:
DPE WELL BLEED VALVE % OPEN:
DPE PUMP BLEED VALVE % OPEN:

ANALOG PANEL READINGS 0830
DPE PUMP AIR FLOW (SCFM): 49.6
DPE WELL VACUUM (IN. HG): 16.6
DPE PUMP INLET VACUUM (IN. HG): 19.7
DPE PUMP OUTLET PRESSURE (PSI): 0.02
DPE PUMP OUTLET TEMP (DEG. F): 216
MS PUMP WATER FLOW (GPM): ? was out — Not working

TOTAL PANEL READINGS
DPE VACUUM PUMP (HRS): 23442
MS PUMP (HRS): 1662
MS VACUUM VALVE (HRS): 385
AIR STRIPPER BLOWER (HRS): 9625
AIR STRIPPER PUMP (HRS): 639
DPE AIR FLOW (SCF): 93698000
MS PUMP WATER FLOW (GAL): 1210901
SUMP PUMP WATER FLOW (GAL): 610

V w/ Eric on reading

FIELD MEASUREMENTS
DPE WELL CASING VACUUM (MM HG): 18.0
PRE-MANIFOLD VACUUM (IN. HG): 19.0
DPE WELL (PRE-MS-1) VACUUM (IN.HG): 19.0
POST-MS-1 VACUUM (IN. HG): 17.0
POST-MS-2 VACUUM (IN. HG): 19.0
DPE PUMP AIR FLOW (SCFM): 50
DPE EXHAUST PID CONC. (PPM): 97
DPE PUMP OUTLET PRESSURE (IN. H2O)): 0.0
DPE PUMP OUTLET TEMP (DEG. F): 200

MS PUMP WATER FLOWRATE (WHILE PUMPING) (GPM): Not working
MS PUMP WATER PRESSURE (WHILE PUMPING) (PSI): 12
MS PUMP FLOW TOTALIZER READING (GAL): 302693

AS EXHAUST PRESSURE (IN. H20): 9
AS DISCHARGE PUMP PRESSURE (WHILE PUMPING) (PSI):
AS BLOWER PRESSURE (IN. H20): 10
AS EXHAUST PID (PPM): ND

14.12 12/19/12

STATIC WATER LEVELS

	Clean to Dirty Ranking	Well Depth below TOC (FT)	Depth to Water below TOC (FT) 12/19/12	12/21/12
MW-14	3	17.5	12.53	13.29
MW-15	4	18	15.14	16.42
MW-16	10	18	13.02	[illegible]
MW-17	7	25	13.86	14.21
MW-18	6	60	14.53	14.80
MW-19	1	20	14.91	15.32
MW-20	8	16.7	13.79	13.84
DPE-1	15	21.9	15.84	21.82
DPE-2	13	20.5	16.13	18.80
DPE-3	14	17.1	16.36	17.56
DPE-4	12	19.3	16.38	17.54
DPE-5	9	18.1	15.74	17.58
DPE-6	5	19.5	15.66	16.00
DPE-7	2	22.2	17.02	17.59
DPE-8	11	17.5	17.02	17.54
Sump	1	7.74	7.33	7.36

OPERATING WATER LEVELS 12/21/12

DPE-1	21.9
DPE-2	16.0
DPE-3	17.0
DPE-4	19.4
DPE-5	18.2
DPE-6	20.0
DPE-7	22.2
DPE-8	17.5

SUMP ROOM PID: ND

BASEMENT PID READINGS: ND

COMMENTS/MAINTENANCE:

ELEVATOR DRAIN TILE SUMP FLOW TOTALIZER (GAL): _____ _____

FIELD DATA SHEET 2 of 2 (REVISED 4/13/10)

CLIENT NAME: CITY OF ROCHESTER
PROJECT ID: CRC
PROJECT NAME: MN BIO BUSINESS CENTER

DATE: 12/21/12
TIME:
RECORDED BY:

	PID READINGS 08:30	PID READINGS 14:30	DPE EXHAUST FLOW RATE 08:30	DPE EXHAUST FLOW RATE 14:30	DPE PUMP INLET VACUUM 08:30	DPE PUMP INLET VACUUM 14:30	WELL CASING VACUUMS 08:30	WELL CASING VACUUMS 14:30
DPE-1	66	45	31	33	17	18	-50	-48
DPE-2	56	22	32	31	17	18	-128	-130
DPE-3	97	28.0	48	47	18	17	-125	-125
DPE-4	51	14.5	43	42	20	19	-118	-115
DPE-5	14.7	4.2	65	62	19	18	-100	-98
DPE-6	13.7	8.5	49	46	18	18	-100	-105
DPE-7	8.7	5.1	53	52	18	18	-49	-48
DPE-8	7.2	4.0	67	66	18	17.5	-75	-75

WATER SAMPLE

12:10

12:12

09:30 - 14:30 CAN - gauge didn't appear to work

MAINTENANCE CHECKLIST (Revised 4/13/10)

MN Bio Business Center
221 1st Avenue SW
Rochester, MN

Date: 12/21/12

Field Represenative:

	Check Box	OBSERVATIONS AND/OR DESCRIPTION OF MAINTENANCE PERFORMED
DPE Pump Maintenance		
- Inspect Hoses, Piping and Fittings for Oil Leaks - MONTHLY	✓	
- Check Oil Level (level should show at middle of site glass) - MONTHLY	✓	
- Change Oil - MONTHLY	NA	
- Clean Pump Inlet Opening - MONTHLY	✓	
Moisture Separator Maintenance		
- Clean Floats - MONTHLY	✓	
- Check Sediment - MONTHLY	✓	
- Remove Sediment - MONTHLY	✓	
- Replace MS#1 Filter (5 micron) - If Pressure Drop Occurs	NA	
- Replace MS#2 Filter (1 micron) - If Pressure Drop Occurs	NA	
- Transfer Pump (Moyno 34401 1 HP) - Inspect Hoses, Piping and Fittings for Water Leaks - MONTHLY		Replaced hose
- Replace Transfer Pump Stator - SEMI-ANNUALLY		Replaced fucking stator on brand new pump
- Clean Discharge Flow Meter - SEMI-ANNUALLY	✓	
Air Stripper Maintenance		
- Clean Air Stripper - ANNUALLY OR AS NEEDED	✓	
- Clean Floats - Quarterly	✓	
- Discharge Pump (Meyers CT10 1 HP) - Inspect Hoses, Piping and Fittings for Water Leaks - MONTHLY	✓	
- Blower (16N4 TBNA 3 HP) - Inspect Hoses, Piping and Fittings for Leaks - MONTHLY	✓	
Solonoid Valve Maintenance		
- Inspect - MONTHLY	✓	
- Clean - AS NEEDED	NA	

Field Information Data Sheet

Landmark Environmental, LLC

Client Name: City of Rochester – Second Quarter Sampling

Project Name: CRC Project Number: CRC-12

Location: MW-14 Date: December 19, 2012

Station: Sample time: 10:00

Casing diameter:	2"	Time/ Volume	Temp °C	Cond @ 25	pH	Eh	D.O.	Turb. NTU
Total well depth:	17.5							
Static water level:	12.53		19.8	1119	7.47	-36	1.33	
Water depth[1]:	4.97							
Well volume (gal):	0.8							
Purge method:	2" dep							
Sample Method:	dedicated							
Start time:	—							
Stop time:	—							
Duration (min.):	—	Odor:						
Rate, gpm:	—	Purge appearance:	clear					
Volume purged:	0.8	Sample appearance:	clear					
Duplicate collected?		Comments:						
Sampled by:								
Others present:		Well Condition						
Analysis:	VOC filtered metal ml filter in-line filter others:							
MW:gw monitoring well WS:water supply well SW:surface water SE:sediment other:								

[1] Measurements are referenced from top of riser pipe, unless otherwise indicated.

Field Information Data Sheet

Landmark Environmental, LLC

Client Name: City of Rochester – Second Quarter Sampling

Project Name: CRC Project Number: CRC-12

Location: MW-15 Date: December 17, 2012

Station: Sample time: 10:20

Casing diameter:	2"	Time/ Volume	Temp °C	Cond @ 25	pH	Eh	D.O.	Turb. NTU
Total well depth:	18							
Static water level:	15.14		20.4	1130	7.19	-40	1.97	
Water depth[1]:	2.86							
Well volume (gal):	0.46							
Purge method:	ded 2"							
Sample Method:	ded Bailer							
Start time:	/							
Stop time:	/							
Duration (min.):	/	Odor:						
Rate, gpm:	/	Purge appearance:	cloudy					
Volume purged:	0.5	Sample appearance:	cloudy					
Duplicate collected?	/	Comments:	1/2 gallon dry					
Sampled by:	✓							
Others present:		Well Condition						
Analysis:	VOC filtered metal ml filter in-line filter others:							
MW:gw monitoring well WS:water supply well SW:surface water SE:sediment other:								

[1] Measurements are referenced from top of riser pipe, unless otherwise indicated.

Field Information Data Sheet

Landmark Environmental, LLC

Client Name: City of Rochester – Second Quarter Sampling

Project Name: CRC Project Number: CRC-12

Location: MW-16 Date: December 17, 2012

Station: _____ Sample time: 13:15

Casing diameter:	2"	Time/ Volume	Temp °C	Cond @ 25	pH	Eh	D.O.	Turb. NTU
Total well depth:	18							
Static water level:	13.02		19.6	2177	7.39	-40	3.61	
Water depth[1]:	4.98							
Well volume (gal):	0.8							
Purge method:	Ded 2"							
Sample Method:	Ded Bailer							
Start time:								
Stop time:								
Duration (min.):		Odor:						
Rate, gpm:		Purge appearance:	cloudy					
Volume purged:	0.9	Sample appearance:	cloudy					
Duplicate collected?		Comments:	0.9 gallons dry					
Sampled by:								
Others present:		Well Condition						
Analysis:	VOC filtered metal ml filter in-line filter others:							
MW:gw monitoring well WS:water supply well SW:surface water SE:sediment other:								

[1] Measurements are referenced from top of riser pipe, unless otherwise indicated.

Field Information Data Sheet

Landmark Environmental, LLC

Client Name: City of Rochester – Second Quarter Sampling

Project Name: CRC Project Number: CRC-12

Location: MW-17 Date: December 17, 2012

Station: 25 Sample time: 11:40

Casing diameter:	2"	Time/ Volume	Temp °C	Cond @ 25	pH	Eh	D.O.	Turb. NTU
Total well depth:	25							
Static water level:	13.86		19.5	727	7.48	-40	0.43	
Water depth[1]:	11.14							
Well volume (gal):	1.8							
Purge method:	Ded 2"							
Sample Method:	Ded Line							
Start time:	—							
Stop time:	—							
Duration (min.):	—	Odor:						
Rate, gpm:	—	Purge appearance:	Brown					
Volume purged:	1.9 G	Sample appearance:	clear					
Duplicate collected?	—	Comments: 1.9 Gallons Dry						
Sampled by:	—							
Others present:		Well Condition	Good					
Analysis:	(VOC) filtered metal ml filter in-line filter others:							
MW:gw monitoring well WS:water supply well SW:surface water SE:sediment other:								

[1] Measurements are referenced from top of riser pipe, unless otherwise indicated.

Field Information Data Sheet

Landmark Environmental, LLC

Client Name: City of Rochester – Second Quarter Sampling

Project Name: CRC Project Number: CRC-12

Location: MW-18 Date: December 17, 2012

Station: Sample time: 11:20

Casing diameter:	2"	Time/ Volume	Temp °C	Cond @ 25	pH	Eh	D.O.	Turb. NTU
Total well depth:	60							
Static water level:	14.53		19.5	1738	7.08	-18	0.60	
Water depth[1]:	45.47							
Well volume (gal):	7.42							
Purge method:	Ded 2"							
Sample Method:	ded Bailer							
Start time:	/							
Stop time:	/							
Duration (min.):	/	Odor:						
Rate, gpm:	/	Purge appearance:	cloudy					
Volume purged:	8 G	Sample appearance:	clear					
Duplicate collected?	/	Comments:	8 Gallons dry					
Sampled by:	/							
Others present:			Well Condition	good				
Analysis:	VOC filtered metal ml filter in-line filter others:							
MW:gw monitoring well WS:water supply well SW:surface water SE:sediment other:								

[1] Measurements are referenced from top of riser pipe, unless otherwise indicated.

Field Information Data Sheet

Landmark Environmental, LLC

Client Name: City of Rochester – Second Quarter Sampling

Project Name: CRC Project Number: CRC-12

Location: MW-19 Date: December 19, 2012

Station: Sample time: 9:00

Casing diameter:	2"	Time/ Volume	Temp °C	Cond @ 25	pH	Eh	D.O.	Turb. NTU
Total well depth:	20							
Static water level:	14.91		17.0	5054	6.71	-24	2.39	
Water depth[1]:	5.09							
Well volume (gal):	0.8							
Purge method:	2" Submersed							
Sample Method:	Ded Bailer							
Start time:	—							
Stop time:	—							
Duration (min.):	—	Odor:						
Rate, gpm:	—	Purge appearance:	clear					
Volume purged:	0.8	Sample appearance:	clear					
Duplicate collected?		Comments:	.8 Gallon dry					
Sampled by:								
Others present:				Well Condition	Good			
Analysis:	VOC filtered metal ml filter in-line filter others:							
MW:gw monitoring well WS:water supply well SW:surface water SE:sediment other:								

Field Information Data Sheet

Landmark Environmental, LLC

Client Name: City of Rochester – Second Quarter Sampling

Project Name: CRC Project Number: CRC-12

Location: MW-20 Date: December 17, 2012

Station: _____ Sample time: 12:10

Casing diameter:	2"	Time/ Volume	Temp °C	Cond @ 25	pH	Eh	D.O.	Turb. NTU
Total well depth:	16.7							
Static water level:	13.79		18.4	4868	6.78	-3	0.33	
Water depth[1]:	2.71							
Well volume (gal):	0.4							
Purge method:	2" del							
Sample Method:	del Bail							
Start time:	—							
Stop time:	—							
Duration (min.):	—	Odor:						
Rate, gpm:	—	Purge appearance:						
Volume purged:	0.5	Sample appearance:						
Duplicate collected?	—	Comments: 1/2 gallon dry						
Sampled by:	—							
Others present:		Well Condition						
Analysis:	VOC filtered metal ml filter in-line filter others:							
MW:gw monitoring well WS:water supply well SW:surface water SE:sediment other:								

[1] Measurements are referenced from top of riser pipe, unless otherwise indicated.

Field Information Data Sheet

Landmark Environmental, LLC

Client Name: City of Rochester – Second Quarter Sampling

Project Name: CRC Project Number: CRC-12

Location: Multiple Location Date: December 17, 2012

Station: _____ Sample time: _____

Multiple Sampling Log:		Time/ Volume	Temp °C	Cond @ 25·	pH	Eh	D.O.	
Location:								
DPE-1:	15:70		18.9	1205	7.95	-64	4.24	
DPE-2:	14:25		18.7	2440	7.70	-51	5.03	
DPE-3:	15:00		18.2	4487	7.14	-21	2.07	
DPE-4:	14:40		19.6	3637	6.62	-158	2.76	
DPE-5:	12:45		18.9	1086	9.28	-134	0.91	
DPE-6:	10:50		14.6	695	7.49	-40	3.3	
DPE-7:	9:20		20	1045	6.88	-8.6	3.04	
DPE-8:	13:45		NA Not enough water					
Rate, gpm:								
Volume purged:								
Duplicate collected?								
Sampled by:								
Others present:				Well Condition				
Analysis:	VOC filtered metal ml filter in-line filter others:							
MW:gw monitoring well WS:water supply well SW:surface water SE:sediment other:								

[1] Measurements are referenced from top of riser pipe, unless otherwise indicated.

OVER →

Attachment B

Pace Analytical®
www.pacelabs.com

Pace Analytical Services, Inc.
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

November 02, 2012

Mr. Jason Skramstad
Landmark Environmental
2042 W. 98th. St.
Minneapolis, MN 55431

RE: Project: CRC City of Rochester
Pace Project No.: 10210492

Dear Mr. Skramstad:
Enclosed are the analytical results for sample(s) received by the laboratory on October 26, 2012. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Carolynne Trout

Carolynne Trout

carolynne.trout@pacelabs.com
Project Manager

Enclosures

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without the written consent of Pace Analytical Services, Inc..

Pace Analytical®
www.pacelabs.com

Pace Analytical Services, Inc.
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

CERTIFICATIONS

Project: CRC City of Rochester
Pace Project No.: 10210492

Minnesota Certification IDs
1700 Elm Street SE Suite 200, Minneapolis, MN 55414
A2LA Certification #: 2926.01
Alaska Certification #: UST-078
Alaska Certification #MN00064
Arizona Certification #: AZ-0014
Arkansas Certification #: 88-0680
California Certification #: 01155CA
Colorado Certification #Pace
Connecticut Certification #: PH-0256
EPA Region 8 Certification #: Pace
Florida/NELAP Certification #: E87605
Georgia Certification #: 959
Hawaii Certification #Pace
Idaho Certification #: MN00064
Illinois Certification #: 200011
Kansas Certification #: E-10167
Louisiana Certification #: 03086
Louisiana Certification #: LA080009
Maine Certification #: 2007029
Maryland Certification #: 322
Michigan DEQ Certification #: 9909
Minnesota Certification #: 027-053-137
Mississippi Certification #: Pace
Montana Certification #: MT CERT0092
Nevada Certification #: MN_00064
Nebraska Certification #: Pace
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SAMPLE SUMMARY

Project: CRC City of Rochester
Pace Project No.: 10210492

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10210492001	**DPE-EXHAUST-1264**	Air	10/26/12 12:00	10/26/12 16:57

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SAMPLE ANALYTE COUNT

Project: CRC City of Rochester
Pace Project No.: 10210492

Lab ID	Sample ID	Method	Analysts	Analytes Reported
10210492001	**DPE-EXHAUST-1264**	TO-15	CJR	61

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ANALYTICAL RESULTS

Project: CRC City of Rochester
Pace Project No.: 10210492

Sample: DPE-EXHAUST-1264 **Lab ID: 10210492001** Collected: 10/26/12 12:00 Received: 10/26/12 16:57 Matrix: Air

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15							
Acetone	ND	ug/m3	166	345.18		11/02/12 00:14	67-64-1	
Benzene	ND	ug/m3	112	345.18		11/02/12 00:14	71-43-2	
Benzyl chloride	ND	ug/m3	362	345.18		11/02/12 00:14	100-44-7	
Bromodichloromethane	ND	ug/m3	469	345.18		11/02/12 00:14	75-27-4	
Bromoform	ND	ug/m3	725	345.18		11/02/12 00:14	75-25-2	
Bromomethane	ND	ug/m3	273	345.18		11/02/12 00:14	74-83-9	
1,3-Butadiene	ND	ug/m3	155	345.18		11/02/12 00:14	106-99-0	
2-Butanone (MEK)	ND	ug/m3	207	345.18		11/02/12 00:14	78-93-3	
Carbon disulfide	ND	ug/m3	217	345.18		11/02/12 00:14	75-15-0	
Carbon tetrachloride	ND	ug/m3	221	345.18		11/02/12 00:14	56-23-5	
Chlorobenzene	ND	ug/m3	324	345.18		11/02/12 00:14	108-90-7	
Chloroethane	ND	ug/m3	186	345.18		11/02/12 00:14	75-00-3	
Chloroform	ND	ug/m3	342	345.18		11/02/12 00:14	67-66-3	
Chloromethane	ND	ug/m3	145	345.18		11/02/12 00:14	74-87-3	
Cyclohexane	ND	ug/m3	242	345.18		11/02/12 00:14	110-82-7	
Dibromochloromethane	ND	ug/m3	597	345.18		11/02/12 00:14	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/m3	538	345.18		11/02/12 00:14	106-93-4	
1,2-Dichlorobenzene	ND	ug/m3	421	345.18		11/02/12 00:14	95-50-1	
1,3-Dichlorobenzene	ND	ug/m3	421	345.18		11/02/12 00:14	541-73-1	
1,4-Dichlorobenzene	ND	ug/m3	421	345.18		11/02/12 00:14	106-46-7	
Dichlorodifluoromethane	ND	ug/m3	349	345.18		11/02/12 00:14	75-71-8	
1,1-Dichloroethane	ND	ug/m3	283	345.18		11/02/12 00:14	75-34-3	
1,2-Dichloroethane	ND	ug/m3	142	345.18		11/02/12 00:14	107-06-2	
1,1-Dichloroethene	ND	ug/m3	280	345.18		11/02/12 00:14	75-35-4	
cis-1,2-Dichloroethene	**370**	ug/m3	280	345.18		11/02/12 00:14	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	280	345.18		11/02/12 00:14	156-60-5	
1,2-Dichloropropane	ND	ug/m3	324	345.18		11/02/12 00:14	78-87-5	
cis-1,3-Dichloropropene	ND	ug/m3	318	345.18		11/02/12 00:14	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/m3	318	345.18		11/02/12 00:14	10061-02-6	
Dichlorotetrafluoroethane	ND	ug/m3	490	345.18		11/02/12 00:14	76-14-2	
Ethanol	**1960**	ug/m3	131	345.18		11/02/12 00:14	64-17-5	SS
Ethyl acetate	ND	ug/m3	252	345.18		11/02/12 00:14	141-78-6	
Ethylbenzene	ND	ug/m3	304	345.18		11/02/12 00:14	100-41-4	
4-Ethyltoluene	ND	ug/m3	345	345.18		11/02/12 00:14	622-96-8	
n-Heptane	ND	ug/m3	286	345.18		11/02/12 00:14	142-82-5	
Hexachloro-1,3-butadiene	ND	ug/m3	759	345.18		11/02/12 00:14	87-68-3	
n-Hexane	ND	ug/m3	249	345.18		11/02/12 00:14	110-54-3	
2-Hexanone	ND	ug/m3	286	345.18		11/02/12 00:14	591-78-6	
Methylene Chloride	ND	ug/m3	245	345.18		11/02/12 00:14	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/m3	286	345.18		11/02/12 00:14	108-10-1	
Methyl-tert-butyl ether	ND	ug/m3	252	345.18		11/02/12 00:14	1634-04-4	
Naphthalene	ND	ug/m3	369	345.18		11/02/12 00:14	91-20-3	
2-Propanol	**218**	ug/m3	173	345.18		11/02/12 00:14	67-63-0	
Propylene	ND	ug/m3	121	345.18		11/02/12 00:14	115-07-1	
Styrene	ND	ug/m3	300	345.18		11/02/12 00:14	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/m3	241	345.18		11/02/12 00:14	79-34-5	
Tetrachloroethene	**664000**	ug/m3	2550	3700.37		11/02/12 08:58	127-18-4	

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ANALYTICAL RESULTS

Project: CRC City of Rochester
Pace Project No.: 10210492

Sample: DPE-EXHAUST-1264 **Lab ID: 10210492001** Collected: 10/26/12 12:00 Received: 10/26/12 16:57 Matrix: Air

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15							
Tetrahydrofuran	ND	ug/m3	207	345.18		11/02/12 00:14	109-99-9	
Toluene	ND	ug/m3	266	345.18		11/02/12 00:14	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/m3	521	345.18		11/02/12 00:14	120-82-1	
1,1,1-Trichloroethane	ND	ug/m3	383	345.18		11/02/12 00:14	71-55-6	
1,1,2-Trichloroethane	ND	ug/m3	190	345.18		11/02/12 00:14	79-00-5	
Trichloroethene	ND	ug/m3	190	345.18		11/02/12 00:14	79-01-6	
Trichlorofluoromethane	ND	ug/m3	394	345.18		11/02/12 00:14	75-69-4	
1,1,2-Trichlorotrifluoroethane	**433000**	ug/m3	5920	3700.37		11/02/12 08:58	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/m3	345	345.18		11/02/12 00:14	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/m3	345	345.18		11/02/12 00:14	108-67-8	
Vinyl acetate	ND	ug/m3	247	345.18		11/02/12 00:14	108-05-4	
Vinyl chloride	ND	ug/m3	89.7	345.18		11/02/12 00:14	75-01-4	
m&p-Xylene	ND	ug/m3	608	345.18		11/02/12 00:14	179601-23-1	
o-Xylene	ND	ug/m3	304	345.18		11/02/12 00:14	95-47-6	

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QUALITY CONTROL DATA

Project: CRC City of Rochester
Pace Project No.: 10210492

QC Batch: AIR/16095
QC Batch Method: TO-15
Analysis Method: TO-15
Analysis Description: TO15 MSV AIR Low Level
Associated Lab Samples: 10210492001

METHOD BLANK: 1324651
Matrix: Air
Associated Lab Samples: 10210492001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/m3	ND	1.1	11/01/12 15:52	
1,1,2,2-Tetrachloroethane	ug/m3	ND	0.70	11/01/12 15:52	
1,1,2-Trichloroethane	ug/m3	ND	0.55	11/01/12 15:52	
1,1,2-Trichlorotrifluoroethane	ug/m3	ND	1.6	11/01/12 15:52	
1,1-Dichloroethane	ug/m3	ND	0.82	11/01/12 15:52	
1,1-Dichloroethene	ug/m3	ND	0.81	11/01/12 15:52	
1,2,4-Trichlorobenzene	ug/m3	ND	1.5	11/01/12 15:52	
1,2,4-Trimethylbenzene	ug/m3	ND	1.0	11/01/12 15:52	
1,2-Dibromoethane (EDB)	ug/m3	ND	1.6	11/01/12 15:52	
1,2-Dichlorobenzene	ug/m3	ND	1.2	11/01/12 15:52	
1,2-Dichloroethane	ug/m3	ND	0.41	11/01/12 15:52	
1,2-Dichloropropane	ug/m3	ND	0.94	11/01/12 15:52	
1,3,5-Trimethylbenzene	ug/m3	ND	1.0	11/01/12 15:52	
1,3-Butadiene	ug/m3	ND	0.45	11/01/12 15:52	
1,3-Dichlorobenzene	ug/m3	ND	1.2	11/01/12 15:52	
1,4-Dichlorobenzene	ug/m3	ND	1.2	11/01/12 15:52	
2-Butanone (MEK)	ug/m3	ND	0.60	11/01/12 15:52	
2-Hexanone	ug/m3	ND	0.83	11/01/12 15:52	
2-Propanol	ug/m3	ND	0.50	11/01/12 15:52	
4-Ethyltoluene	ug/m3	ND	1.0	11/01/12 15:52	
4-Methyl-2-pentanone (MIBK)	ug/m3	ND	0.83	11/01/12 15:52	
Acetone	ug/m3	ND	0.48	11/01/12 15:52	
Benzene	ug/m3	ND	0.32	11/01/12 15:52	
Benzyl chloride	ug/m3	ND	1.0	11/01/12 15:52	
Bromodichloromethane	ug/m3	ND	1.4	11/01/12 15:52	
Bromoform	ug/m3	ND	2.1	11/01/12 15:52	
Bromomethane	ug/m3	ND	0.79	11/01/12 15:52	
Carbon disulfide	ug/m3	ND	0.63	11/01/12 15:52	
Carbon tetrachloride	ug/m3	ND	0.64	11/01/12 15:52	
Chlorobenzene	ug/m3	ND	0.94	11/01/12 15:52	
Chloroethane	ug/m3	ND	0.54	11/01/12 15:52	
Chloroform	ug/m3	ND	0.99	11/01/12 15:52	
Chloromethane	ug/m3	ND	0.42	11/01/12 15:52	
cis-1,2-Dichloroethene	ug/m3	ND	0.81	11/01/12 15:52	
cis-1,3-Dichloropropene	ug/m3	ND	0.92	11/01/12 15:52	
Cyclohexane	ug/m3	ND	0.70	11/01/12 15:52	
Dibromochloromethane	ug/m3	ND	1.7	11/01/12 15:52	
Dichlorodifluoromethane	ug/m3	ND	1.0	11/01/12 15:52	
Dichlorotetrafluoroethane	ug/m3	ND	1.4	11/01/12 15:52	
Ethanol	ug/m3	ND	0.38	11/01/12 15:52	
Ethyl acetate	ug/m3	ND	0.73	11/01/12 15:52	
Ethylbenzene	ug/m3	ND	0.88	11/01/12 15:52	
Hexachloro-1,3-butadiene	ug/m3	ND	2.2	11/01/12 15:52	

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QUALITY CONTROL DATA

Project: CRC City of Rochester
Pace Project No.: 10210492

METHOD BLANK: 1324651 Matrix: Air

Associated Lab Samples: 10210492001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
m&p-Xylene	ug/m3	ND	1.8	11/01/12 15:52	
Methyl-tert-butyl ether	ug/m3	ND	0.73	11/01/12 15:52	
Methylene Chloride	ug/m3	ND	0.71	11/01/12 15:52	
n-Heptane	ug/m3	ND	0.83	11/01/12 15:52	
n-Hexane	ug/m3	ND	0.72	11/01/12 15:52	
Naphthalene	ug/m3	ND	1.1	11/01/12 15:52	
o-Xylene	ug/m3	ND	0.88	11/01/12 15:52	
Propylene	ug/m3	ND	0.35	11/01/12 15:52	
Styrene	ug/m3	ND	0.87	11/01/12 15:52	
Tetrachloroethene	ug/m3	ND	0.69	11/01/12 15:52	
Tetrahydrofuran	ug/m3	ND	0.60	11/01/12 15:52	
Toluene	ug/m3	ND	0.77	11/01/12 15:52	
trans-1,2-Dichloroethene	ug/m3	ND	0.81	11/01/12 15:52	
trans-1,3-Dichloropropene	ug/m3	ND	0.92	11/01/12 15:52	
Trichloroethene	ug/m3	ND	0.55	11/01/12 15:52	
Trichlorofluoromethane	ug/m3	ND	1.1	11/01/12 15:52	
Vinyl acetate	ug/m3	ND	0.72	11/01/12 15:52	
Vinyl chloride	ug/m3	ND	0.26	11/01/12 15:52	

LABORATORY CONTROL SAMPLE: 1324652

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/m3	55.5	57.1	103	72-129	
1,1,2,2-Tetrachloroethane	ug/m3	69.8	66.6	95	73-131	
1,1,2-Trichloroethane	ug/m3	55.5	49.5	89	71-128	
1,1,2-Trichlorotrifluoroethane	ug/m3	77.9	74.5	96	65-132	
1,1-Dichloroethane	ug/m3	41.2	39.6	96	67-132	
1,1-Dichloroethene	ug/m3	40.3	38.4	95	68-134	
1,2,4-Trichlorobenzene	ug/m3	75.5	65.1	86	48-150	
1,2,4-Trimethylbenzene	ug/m3	50	46.5	93	72-127	
1,2-Dibromoethane (EDB)	ug/m3	78.1	73.3	94	75-130	
1,2-Dichlorobenzene	ug/m3	61.2	62.5	102	71-132	
1,2-Dichloroethane	ug/m3	41.2	41.5	101	70-131	
1,2-Dichloropropane	ug/m3	47	51.9	110	73-130	
1,3,5-Trimethylbenzene	ug/m3	50	46.1	92	70-133	
1,3-Butadiene	ug/m3	22.5	20.8	92	69-132	
1,3-Dichlorobenzene	ug/m3	61.2	55.8	91	71-128	
1,4-Dichlorobenzene	ug/m3	61.2	56.3	92	72-131	
2-Butanone (MEK)	ug/m3	30	28.1	94	69-131	
2-Hexanone	ug/m3	41.7	39.2	94	71-134	
2-Propanol	ug/m3	25	23.5	94	72-132	
4-Ethyltoluene	ug/m3	50	47.0	94	71-129	
4-Methyl-2-pentanone (MIBK)	ug/m3	41.7	48.9	117	69-135	
Acetone	ug/m3	24.2	23.9	99	61-139	
Benzene	ug/m3	32.5	35.4	109	69-134	

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QUALITY CONTROL DATA

Project: CRC City of Rochester
Pace Project No.: 10210492

LABORATORY CONTROL SAMPLE: 1324652

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Benzyl chloride	ug/m3	52.5	49.4	94	70-129	
Bromodichloromethane	ug/m3	68.2	75.0	110	71-130	
Bromoform	ug/m3	105	95.1	91	70-130	
Bromomethane	ug/m3	39.5	38.6	98	69-125	
Carbon disulfide	ug/m3	31.7	28.7	91	66-131	
Carbon tetrachloride	ug/m3	64	67.8	106	68-128	
Chlorobenzene	ug/m3	46.8	43.0	92	75-128	
Chloroethane	ug/m3	26.8	26.3	98	66-131	
Chloroform	ug/m3	49.7	49.5	100	68-132	
Chloromethane	ug/m3	21	19.6	93	60-139	
cis-1,2-Dichloroethene	ug/m3	40.3	35.7	88	73-130	
cis-1,3-Dichloropropene	ug/m3	46.2	54.7	118	74-134	
Cyclohexane	ug/m3	35	37.8	108	67-136	
Dibromochloromethane	ug/m3	86.6	81.6	94	69-131	
Dichlorodifluoromethane	ug/m3	50.3	47.9	95	67-131	
Dichlorotetrafluoroethane	ug/m3	71.1	67.1	94	66-130	
Ethanol	ug/m3	19.2	20.5	107	69-131	SS
Ethyl acetate	ug/m3	36.6	38.9	106	71-131	
Ethylbenzene	ug/m3	44.2	42.1	95	69-139	
Hexachloro-1,3-butadiene	ug/m3	108	162	149	41-150	
m&p-Xylene	ug/m3	88.3	84.2	95	66-137	
Methyl-tert-butyl ether	ug/m3	36.7	35.8	98	70-132	
Methylene Chloride	ug/m3	35.3	32.4	92	73-134	
n-Heptane	ug/m3	41.7	42.0	101	70-134	
n-Hexane	ug/m3	35.8	33.3	93	65-133	
Naphthalene	ug/m3	53.3	39.1	73	57-150	
o-Xylene	ug/m3	44.2	41.9	95	69-138	
Propylene	ug/m3	17.5	18.3	105	70-134	
Styrene	ug/m3	43.3	39.2	90	72-132	
Tetrachloroethene	ug/m3	69	61.0	88	70-130	
Tetrahydrofuran	ug/m3	30	34.3	114	74-128	
Toluene	ug/m3	38.3	34.3	90	71-132	
trans-1,2-Dichloroethene	ug/m3	40.3	38.8	96	72-128	
trans-1,3-Dichloropropene	ug/m3	46.2	45.7	99	73-130	
Trichloroethene	ug/m3	54.6	58.0	106	72-131	
Trichlorofluoromethane	ug/m3	57.1	52.5	92	66-129	
Vinyl acetate	ug/m3	35.8	35.8	100	71-131	
Vinyl chloride	ug/m3	26	24.6	95	70-131	

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QUALIFIERS

Project: CRC City of Rochester
Pace Project No.: 10210492

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PRL - Pace Reporting Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

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SAMPLE QUALIFIERS

Sample: 10210492001

[1] The Total Hydrocarbon (THC) pattern is evenly distributed throughout the chromatogram (before and after toluene).

[2] This result is reported from a serial dilution

ANALYTE QUALIFIERS

SS This analyte did not meet the secondary source verification criteria for the initial calibration. The reported result should be considered an estimated value.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: CRC City of Rochester
Pace Project No.: 10210492

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10210492001	DPE-EXHAUST-1264	TO-15	AIR/16095		

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10210492

Page: 1 of 1

Section A **Required** Client Information:	Section B **Required** Project Information:	Section C Invoice Information:
Company: Landmark Environmental	Report To: Jason Skramstad	Attention: Jason Skramstad
Address: 2042 W. 98th Street	Copy To: Eric Gabrielson	Company Name: Landmark Environmental, LLC
Bloomington, MN 55431		Address: 2042 W. 98th St., Bloomington, MN 55431
Email To: jskramstad@landmarkenv.com	Purchase Order No.:	Pace Quote Reference:
Phone: 952-887-9601, ext 205 / Fax: 952-887-9605	Project Name: City of Rochester	Pace Project Manager: Carolynne Trout
Requested Due Date/TAT: Normal	Project Number: CRC	Pace Profile #:

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER

☐ UST ☐ RCRA ☐ OTHER_____

SITE LOCATION ☐ SA ☐ L ☐ N ☐ ☐ ☐ ☐ OH ☐ SC ☐ VI ☐ OTHER____

ITEM #	Section D Required Client Information SAMPLE ID One Character per box. (A-Z, 0-9 / ,-) Samples IDs MUST BE UNIQUE	MATRIX CODE	SAMPLE TYPE G=GRAB C=COMP	COLLECTED COMPOSITE START DATE	COMPOSITE START TIME	COMPOSITE END/GRAB DATE	COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	#OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Filtered (Y/N)	Requested Analysis: TO-15	Pace Project Number / Lab I.D.
1	DPE-EXHAUST-1264	A	C	10/26/12	6:00	10/26/12	12:00												X	10210492001
2																				
3																				
4																				
5																				
6																				
7																				
8																				
5																				
6																				
7																				
8																				

Valid Matrix Codes

MATRIX	CODE
DRINKING WATER	DW
WATER	WT
WASTE WATER	WW
PRODUCT	P
SOIL/SOLID	SL
OIL	OL WP
WIPE	AR
AIR	OT
OTHER	TS
TISSUE	

Additional Comments:

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
				10-26-12	1657	ok	Y/N	Y/N	Y/N
							Y/N	Y/N	Y/N
							Y/N	Y/N	Y/N
							Y/N	Y/N	Y/N

SAMPLER NAME AND SIGNATURE	Temp in °C	Received on Ice	Custody Sealed Cooler	Samples Intact
PRINT Name of SAMPLER: Eric Gabrielson				
SIGNATURE of SAMPLER: / DATE Signed (MM / DD / YY): 10/26/12				

Pace Analytical	Document Name: Air Sample Condition Upon Receipt	Document Revised: 22Aug2012 Page 1 of 1
	Document No.: F-MN-A-106-rev.05	Issuing Authority: Pace Minnesota Quality Office

Air Sample Condition Upon Receipt

Client Name: LANDMARK ENV

Project #: WO#: 10210492

10210492

Courier: ☐Fed Ex ☐UPS ☐USPS ☐Client ☐Commercial ☐Pace ☐Other:_____

Tracking Number: COURIER

Custody Seal on Cooler/Box Present? ☐Yes ☒No **Seals Intact?** ☐Yes ☐No

Optional: Proj. Due Date: Proj. Name:

Packing Material: ☐Bubble Wrap ☐Bubble Bags ☐Foam ☐None ☐Other:_____

Temperature (TO17 and TO13 samples only): AMB **Thermometer Used:** ☐B88A912167504 ☐80512447

Temp should be above freezing to 6°C

Date & Initials of Person Examining Contents: 10-29-12 JK

				Comments:
Chain of Custody Present?	☒Yes	☐No	☐N/A	1.
Chain of Custody Filled Out?	☒Yes	☐No	☐N/A	2.
Chain of Custody Relinquished?	☐Yes	☒No	☐N/A	3.
Sampler Name and/or Signature on COC?	☒Yes	☐No	☐N/A	4.
Samples Arrived within Hold Time?	☒Yes	☐No	☐N/A	5.
Short Hold Time Analysis (<72 hr)?	☐Yes	☒No	☐N/A	6.
Rush Turn Around Time Requested?	☐Yes	☒No	☐N/A	7.
Sufficient Volume?	☒Yes	☐No	☐N/A	8.
Correct Containers Used?	☒Yes	☐No	☐N/A	9.
-Pace Containers Used?	☒Yes	☐No	☐N/A	
Containers Intact?	☒Yes	☐No	☐N/A	10.
Media: AIR(CAN)				11.
Sample Labels Match COC?	☒Yes	☐No	☐N/A	12.

Samples Received: 1CAN, 1FC

Canisters		Flow Controllers		Stand Alone G	
Sample Number	Can ID	Sample Number	Can ID	Sample Number	Can ID
DPE-EXHAST	1264	FC0053			

CLIENT NOTIFICATION/RESOLUTION **Field Data Required?** ☐Yes ☐No

Person Contacted: _____ Date/Time: _____

Comments/Resolution: _____

Project Manager Review: _____ **Date:** 10/29/12

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e out c hold, incorrect preservative, out of temp, incorrect containers)

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1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

January 07, 2013

Mr. Jason Skramstad
Landmark Environmental
2042 W. 98th. St.
Minneapolis, MN 55431

RE: Project: CRC City of Rochester
Pace Project No.: 10216286

Dear Mr. Skramstad:
Enclosed are the analytical results for sample(s) received by the laboratory on December 26, 2012. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Carolynne Trout

Carolynne Trout

carolynne.trout@pacelabs.com
Project Manager

Enclosures

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CERTIFICATIONS

Project: CRC City of Rochester
Pace Project No.: 10216286

Minnesota Certification IDs
1700 Elm Street SE Suite 200, Minneapolis, MN 55414
A2LA Certification #: 2926.01
Alaska Certification #: UST-078
Alaska Certification #MN00064
Arizona Certification #: AZ-0014
Arkansas Certification #: 88-0680
California Certification #: 01155CA
Colorado Certification #Pace
Connecticut Certification #: PH-0256
EPA Region 8 Certification #: Pace
Florida/NELAP Certification #: E87605
Georgia Certification #: 959
Hawaii Certification #Pace
Idaho Certification #: MN00064
Illinois Certification #: 200011
Kansas Certification #: E-10167
Louisiana Certification #: 03086
Louisiana Certification #: LA080009
Maine Certification #: 2007029
Maryland Certification #: 322
Michigan DEQ Certification #: 9909
Minnesota Certification #: 027-053-137
Mississippi Certification #: Pace
Montana Certification #: MT CERT0092
Nevada Certification #: MN_00064
Nebraska Certification #: Pace
New Jersey Certification #: MN-002
New York Certification #: 11647
North Carolina Certification #: 530
North Dakota Certification #: R-036
North Dakota Certification #: R-036A
Ohio VAP Certification #: CL101
Oklahoma Certification #: 9507
Oregon Certification #: MN200001
Oregon Certification #: MN300001
Pennsylvania Certification #: 68-00563
Puerto Rico Certification
Tennessee Certification #: 02818
Texas Certification #: T104704192
Utah Certification #: MN00064
Virginia/DCLS Certification #: 002521
Virginia/VELAP Certification #: 460163
Washington Certification #: C754
West Virginia Certification #: 382
Wisconsin Certification #: 999407970

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SAMPLE SUMMARY

Project: CRC City of Rochester
Pace Project No.: 10216286

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10216286001	**DPE Exhaust-0757**	Air	12/21/12 14:30	12/26/12 11:25

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SAMPLE ANALYTE COUNT

Project: CRC City of Rochester
Pace Project No.: 10216286

Lab ID	Sample ID	Method	Analysts	Analytes Reported
10216286001	**DPE Exhaust-0757**	TO-15	CJR	61

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ANALYTICAL RESULTS

Project: CRC City of Rochester
Pace Project No.: 10216286

Sample: DPE Exhaust-0757 **Lab ID: 10216286001** Collected: 12/21/12 14:30 Received: 12/26/12 11:25 Matrix: Air

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15							
Acetone	ND	ug/m3	596	1241.6		01/04/13 21:01	67-64-1	
Benzene	ND	ug/m3	404	1241.6		01/04/13 21:01	71-43-2	
Benzyl chloride	ND	ug/m3	1300	1241.6		01/04/13 21:01	100-44-7	
Bromodichloromethane	ND	ug/m3	1690	1241.6		01/04/13 21:01	75-27-4	
Bromoform	ND	ug/m3	2610	1241.6		01/04/13 21:01	75-25-2	
Bromomethane	ND	ug/m3	981	1241.6		01/04/13 21:01	74-83-9	
1,3-Butadiene	ND	ug/m3	559	1241.6		01/04/13 21:01	106-99-0	
2-Butanone (MEK)	ND	ug/m3	745	1241.6		01/04/13 21:01	78-93-3	
Carbon disulfide	ND	ug/m3	782	1241.6		01/04/13 21:01	75-15-0	
Carbon tetrachloride	ND	ug/m3	795	1241.6		01/04/13 21:01	56-23-5	
Chlorobenzene	ND	ug/m3	1170	1241.6		01/04/13 21:01	108-90-7	
Chloroethane	ND	ug/m3	670	1241.6		01/04/13 21:01	75-00-3	
Chloroform	ND	ug/m3	1230	1241.6		01/04/13 21:01	67-66-3	
Chloromethane	ND	ug/m3	521	1241.6		01/04/13 21:01	74-87-3	
Cyclohexane	ND	ug/m3	869	1241.6		01/04/13 21:01	110-82-7	
Dibromochloromethane	ND	ug/m3	2150	1241.6		01/04/13 21:01	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/m3	1940	1241.6		01/04/13 21:01	106-93-4	
1,2-Dichlorobenzene	ND	ug/m3	1510	1241.6		01/04/13 21:01	95-50-1	
1,3-Dichlorobenzene	ND	ug/m3	1510	1241.6		01/04/13 21:01	541-73-1	
1,4-Dichlorobenzene	ND	ug/m3	1510	1241.6		01/04/13 21:01	106-46-7	
Dichlorodifluoromethane	ND	ug/m3	1250	1241.6		01/04/13 21:01	75-71-8	
1,1-Dichloroethane	ND	ug/m3	1020	1241.6		01/04/13 21:01	75-34-3	
1,2-Dichloroethane	ND	ug/m3	509	1241.6		01/04/13 21:01	107-06-2	
1,1-Dichloroethene	ND	ug/m3	1010	1241.6		01/04/13 21:01	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	1010	1241.6		01/04/13 21:01	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	1010	1241.6		01/04/13 21:01	156-60-5	
1,2-Dichloropropane	ND	ug/m3	1170	1241.6		01/04/13 21:01	78-87-5	
cis-1,3-Dichloropropene	ND	ug/m3	1140	1241.6		01/04/13 21:01	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/m3	1140	1241.6		01/04/13 21:01	10061-02-6	
Dichlorotetrafluoroethane	ND	ug/m3	1760	1241.6		01/04/13 21:01	76-14-2	
Ethanol	ND	ug/m3	472	1241.6		01/04/13 21:01	64-17-5	
Ethyl acetate	ND	ug/m3	906	1241.6		01/04/13 21:01	141-78-6	
Ethylbenzene	ND	ug/m3	1090	1241.6		01/04/13 21:01	100-41-4	
4-Ethyltoluene	ND	ug/m3	1240	1241.6		01/04/13 21:01	622-96-8	
n-Heptane	ND	ug/m3	1030	1241.6		01/04/13 21:01	142-82-5	
Hexachloro-1,3-butadiene	ND	ug/m3	2730	1241.6		01/04/13 21:01	87-68-3	
n-Hexane	ND	ug/m3	894	1241.6		01/04/13 21:01	110-54-3	
2-Hexanone	ND	ug/m3	1030	1241.6		01/04/13 21:01	591-78-6	
Methylene Chloride	ND	ug/m3	882	1241.6		01/04/13 21:01	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/m3	1030	1241.6		01/04/13 21:01	108-10-1	
Methyl-tert-butyl ether	ND	ug/m3	906	1241.6		01/04/13 21:01	1634-04-4	
Naphthalene	ND	ug/m3	1330	1241.6		01/04/13 21:01	91-20-3	
2-Propanol	ND	ug/m3	621	1241.6		01/04/13 21:01	67-63-0	
Propylene	ND	ug/m3	435	1241.6		01/04/13 21:01	115-07-1	
Styrene	ND	ug/m3	1080	1241.6		01/04/13 21:01	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/m3	867	1241.6		01/04/13 21:01	79-34-5	
Tetrachloroethene	**358000**	ug/m3	11500	16687.1		01/05/13 16:39	127-18-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: CRC City of Rochester
Pace Project No.: 10216286

Sample: DPE Exhaust-0757 **Lab ID: 10216286001** Collected: 12/21/12 14:30 Received: 12/26/12 11:25 Matrix: Air

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15							
Tetrahydrofuran	ND	ug/m3	745	1241.6		01/04/13 21:01	109-99-9	
Toluene	ND	ug/m3	956	1241.6		01/04/13 21:01	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/m3	1870	1241.6		01/04/13 21:01	120-82-1	
1,1,1-Trichloroethane	ND	ug/m3	1380	1241.6		01/04/13 21:01	71-55-6	
1,1,2-Trichloroethane	ND	ug/m3	683	1241.6		01/04/13 21:01	79-00-5	
Trichloroethene	ND	ug/m3	683	1241.6		01/04/13 21:01	79-01-6	
Trichlorofluoromethane	ND	ug/m3	1420	1241.6		01/04/13 21:01	75-69-4	
1,1,2-Trichlorotrifluoroethane	**89600**	ug/m3	1990	1241.6		01/04/13 21:01	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/m3	1240	1241.6		01/04/13 21:01	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/m3	1240	1241.6		01/04/13 21:01	108-67-8	
Vinyl acetate	ND	ug/m3	889	1241.6		01/04/13 21:01	108-05-4	
Vinyl chloride	ND	ug/m3	323	1241.6		01/04/13 21:01	75-01-4	
m&p-Xylene	ND	ug/m3	2190	1241.6		01/04/13 21:01	179601-23-1	
o-Xylene	ND	ug/m3	1090	1241.6		01/04/13 21:01	95-47-6	

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QUALITY CONTROL DATA

Project: CRC City of Rochester
Pace Project No.: 10216286

QC Batch: AIR/16529
QC Batch Method: TO-15
Analysis Method: TO-15
Analysis Description: TO15 MSV AIR Low Level
Associated Lab Samples: 10216286001

METHOD BLANK: 1360026
Matrix: Air
Associated Lab Samples: 10216286001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/m3	ND	1.1	01/04/13 14:08	
1,1,2,2-Tetrachloroethane	ug/m3	ND	0.70	01/04/13 14:08	
1,1,2-Trichloroethane	ug/m3	ND	0.55	01/04/13 14:08	
1,1,2-Trichlorotrifluoroethane	ug/m3	ND	1.6	01/04/13 14:08	
1,1-Dichloroethane	ug/m3	ND	0.82	01/04/13 14:08	
1,1-Dichloroethene	ug/m3	ND	0.81	01/04/13 14:08	
1,2,4-Trichlorobenzene	ug/m3	ND	1.5	01/04/13 14:08	
1,2,4-Trimethylbenzene	ug/m3	ND	1.0	01/04/13 14:08	
1,2-Dibromoethane (EDB)	ug/m3	ND	1.6	01/04/13 14:08	
1,2-Dichlorobenzene	ug/m3	ND	1.2	01/04/13 14:08	
1,2-Dichloroethane	ug/m3	ND	0.41	01/04/13 14:08	
1,2-Dichloropropane	ug/m3	ND	0.94	01/04/13 14:08	
1,3,5-Trimethylbenzene	ug/m3	ND	1.0	01/04/13 14:08	
1,3-Butadiene	ug/m3	ND	0.45	01/04/13 14:08	
1,3-Dichlorobenzene	ug/m3	ND	1.2	01/04/13 14:08	
1,4-Dichlorobenzene	ug/m3	ND	1.2	01/04/13 14:08	
2-Butanone (MEK)	ug/m3	ND	0.60	01/04/13 14:08	
2-Hexanone	ug/m3	ND	0.83	01/04/13 14:08	
2-Propanol	ug/m3	ND	0.50	01/04/13 14:08	
4-Ethyltoluene	ug/m3	ND	1.0	01/04/13 14:08	
4-Methyl-2-pentanone (MIBK)	ug/m3	ND	0.83	01/04/13 14:08	
Acetone	ug/m3	ND	0.48	01/04/13 14:08	
Benzene	ug/m3	ND	0.32	01/04/13 14:08	
Benzyl chloride	ug/m3	ND	1.0	01/04/13 14:08	
Bromodichloromethane	ug/m3	ND	1.4	01/04/13 14:08	
Bromoform	ug/m3	ND	2.1	01/04/13 14:08	
Bromomethane	ug/m3	ND	0.79	01/04/13 14:08	
Carbon disulfide	ug/m3	ND	0.63	01/04/13 14:08	
Carbon tetrachloride	ug/m3	ND	0.64	01/04/13 14:08	
Chlorobenzene	ug/m3	ND	0.94	01/04/13 14:08	
Chloroethane	ug/m3	ND	0.54	01/04/13 14:08	
Chloroform	ug/m3	ND	0.99	01/04/13 14:08	
Chloromethane	ug/m3	ND	0.42	01/04/13 14:08	
cis-1,2-Dichloroethene	ug/m3	ND	0.81	01/04/13 14:08	
cis-1,3-Dichloropropene	ug/m3	ND	0.92	01/04/13 14:08	
Cyclohexane	ug/m3	ND	0.70	01/04/13 14:08	
Dibromochloromethane	ug/m3	ND	1.7	01/04/13 14:08	
Dichlorodifluoromethane	ug/m3	ND	1.0	01/04/13 14:08	
Dichlorotetrafluoroethane	ug/m3	ND	1.4	01/04/13 14:08	
Ethanol	ug/m3	ND	0.38	01/04/13 14:08	
Ethyl acetate	ug/m3	ND	0.73	01/04/13 14:08	
Ethylbenzene	ug/m3	ND	0.88	01/04/13 14:08	
Hexachloro-1,3-butadiene	ug/m3	ND	2.2	01/04/13 14:08	

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QUALITY CONTROL DATA

Project: CRC City of Rochester
Pace Project No.: 10216286

METHOD BLANK: 1360026 Matrix: Air

Associated Lab Samples: 10216286001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
m&p-Xylene	ug/m3	ND	1.8	01/04/13 14:08	
Methyl-tert-butyl ether	ug/m3	ND	0.73	01/04/13 14:08	
Methylene Chloride	ug/m3	ND	0.71	01/04/13 14:08	
n-Heptane	ug/m3	ND	0.83	01/04/13 14:08	
n-Hexane	ug/m3	ND	0.72	01/04/13 14:08	
Naphthalene	ug/m3	ND	1.1	01/04/13 14:08	
o-Xylene	ug/m3	ND	0.88	01/04/13 14:08	
Propylene	ug/m3	ND	0.35	01/04/13 14:08	
Styrene	ug/m3	ND	0.87	01/04/13 14:08	
Tetrachloroethene	ug/m3	ND	0.69	01/04/13 14:08	
Tetrahydrofuran	ug/m3	ND	0.60	01/04/13 14:08	
Toluene	ug/m3	ND	0.77	01/04/13 14:08	
trans-1,2-Dichloroethene	ug/m3	ND	0.81	01/04/13 14:08	
trans-1,3-Dichloropropene	ug/m3	ND	0.92	01/04/13 14:08	
Trichloroethene	ug/m3	ND	0.55	01/04/13 14:08	
Trichlorofluoromethane	ug/m3	ND	1.1	01/04/13 14:08	
Vinyl acetate	ug/m3	ND	0.72	01/04/13 14:08	
Vinyl chloride	ug/m3	ND	0.26	01/04/13 14:08	

LABORATORY CONTROL SAMPLE: 1360027

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/m3	55.5	54.2	98	69-131	
1,1,2,2-Tetrachloroethane	ug/m3	69.8	73.6	105	66-135	
1,1,2-Trichloroethane	ug/m3	55.5	61.8	111	68-132	
1,1,2-Trichlorotrifluoroethane	ug/m3	77.9	70.5	90	65-130	
1,1-Dichloroethane	ug/m3	41.2	47.1	114	66-131	
1,1-Dichloroethene	ug/m3	40.3	47.7	118	64-136	
1,2,4-Trichlorobenzene	ug/m3	75.5	98.8	131	30-150	CH
1,2,4-Trimethylbenzene	ug/m3	50	47.8	96	71-135	
1,2-Dibromoethane (EDB)	ug/m3	78.1	75.9	97	72-132	
1,2-Dichlorobenzene	ug/m3	61.2	63.6	104	68-148	
1,2-Dichloroethane	ug/m3	41.2	45.8	111	66-136	
1,2-Dichloropropane	ug/m3	47	50.0	106	68-133	
1,3,5-Trimethylbenzene	ug/m3	50	49.5	99	69-136	
1,3-Butadiene	ug/m3	22.5	18.8	83	69-134	
1,3-Dichlorobenzene	ug/m3	61.2	65.5	107	70-134	
1,4-Dichlorobenzene	ug/m3	61.2	62.7	103	66-134	
2-Butanone (MEK)	ug/m3	30	48.4	161	69-141	CH,L1,SS
2-Hexanone	ug/m3	41.7	50.3	121	74-132	
2-Propanol	ug/m3	25	32.3	129	64-139	
4-Ethyltoluene	ug/m3	50	55.2	110	71-134	
4-Methyl-2-pentanone (MIBK)	ug/m3	41.7	51.9	125	74-131	
Acetone	ug/m3	24.2	38.1	158	62-142	CH,L1,SS
Benzene	ug/m3	32.5	31.3	96	72-136	

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QUALITY CONTROL DATA

Project: CRC City of Rochester
Pace Project No.: 10216286

LABORATORY CONTROL SAMPLE: 1360027

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Benzyl chloride	ug/m3	52.5	63.0	120	70-134	
Bromodichloromethane	ug/m3	68.2	77.8	114	69-135	
Bromoform	ug/m3	105	109	104	72-133	
Bromomethane	ug/m3	39.5	28.2	71	65-125	
Carbon disulfide	ug/m3	31.7	30.3	96	68-127	
Carbon tetrachloride	ug/m3	64	75.1	117	64-133	
Chlorobenzene	ug/m3	46.8	44.2	94	65-135	
Chloroethane	ug/m3	26.8	23.7	88	63-129	
Chloroform	ug/m3	49.7	48.1	97	66-129	
Chloromethane	ug/m3	21	19.6	93	57-135	
cis-1,2-Dichloroethene	ug/m3	40.3	36.5	91	73-135	
cis-1,3-Dichloropropene	ug/m3	46.2	52.6	114	75-137	
Cyclohexane	ug/m3	35	38.6	110	73-139	
Dibromochloromethane	ug/m3	86.6	89.6	103	73-130	
Dichlorodifluoromethane	ug/m3	50.3	50.4	100	64-131	
Dichlorotetrafluoroethane	ug/m3	71.1	59.3	83	64-131	
Ethanol	ug/m3	19.2	19.7	103	62-134	
Ethyl acetate	ug/m3	36.6	44.2	121	73-136	
Ethylbenzene	ug/m3	44.2	42.4	96	74-136	
Hexachloro-1,3-butadiene	ug/m3	108	159	146	30-150	CH
m&p-Xylene	ug/m3	44.2	42.1	95	72-135	
Methyl-tert-butyl ether	ug/m3	36.7	34.0	93	71-134	
Methylene Chloride	ug/m3	35.3	39.5	112	59-140	
n-Heptane	ug/m3	41.7	48.3	116	73-136	
n-Hexane	ug/m3	35.8	56.3	157	67-136	CH,L1
Naphthalene	ug/m3	53.3	75.2	141	30-150	CH
o-Xylene	ug/m3	44.2	43.6	99	74-135	
Propylene	ug/m3	17.5	17.9	102	66-138	
Styrene	ug/m3	43.3	49.1	113	73-135	
Tetrachloroethene	ug/m3	69	60.8	88	66-135	
Tetrahydrofuran	ug/m3	30	32.2	107	73-130	
Toluene	ug/m3	38.3	47.2	123	71-134	
trans-1,2-Dichloroethene	ug/m3	40.3	31.8	79	68-129	
trans-1,3-Dichloropropene	ug/m3	46.2	50.9	110	75-129	
Trichloroethene	ug/m3	54.6	52.0	95	68-134	
Trichlorofluoromethane	ug/m3	57.1	61.3	107	61-134	
Vinyl acetate	ug/m3	35.8	42.7	119	70-139	
Vinyl chloride	ug/m3	26	22.5	87	64-134	

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QUALIFIERS

Project: CRC City of Rochester
Pace Project No.: 10216286

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PRL - Pace Reporting Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

SAMPLE QUALIFIERS

Sample: 10216286001

[1]	The Total Hydrocarbon (THC) pattern occured in the second half of the chromatogram (after toluene).
[2]	This result is reported from a serial dilution

ANALYTE QUALIFIERS

CH	The continuing calibration for this compound is outside of Pace Analytical acceptance limits. The results may be biased high.
L1	Analyte recovery in the laboratory control sample (LCS) was above QC limits. Results may be biased high.
SS	This analyte did not meet the secondary source verification criteria for the initial calibration. The reported result should be considered an estimated value.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: CRC City of Rochester
Pace Project No.: 10216286

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10216286001	**DPE Exhaust-0757**	TO-15	AIR/16529		

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CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

10216246

Section A Required Client Information:	Section B Required Project Information:	Section C Invoice Information:
Company: Landmark Environmental	Report To: Jason Skramstad	Attention: Jason Skramstad
Address: 2042 W. 98th Street	Copy To: Eric Gabrielson	Company Name: Landmark Environmental, LLC
Bloomington, MN 55431		Address: 2042 W. 98th St., Bloomington, MN 55431
Email To: jskramstad@landmarkenv.com	Purchase Order No.:	Pace Quote Reference:
Phone: 952-887-9601, ext 205 Fax: 952-887-9605	Project Name: City of Rochester	Pace Project Manager: Carolynne Trout
Requested Due Date/TAT: Normal	Project Number: CRC	Pace Profile #:

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☐ THER_____

SITE LOCATION ☐ GA ☐ L ☐ N ☐ ☐ ☐ OH ☐ SC ☐ VI ☐ THER____

Section D Required Client Information

Valid Matrix Codes

MATRIX	CODE
DRINKING WATER	DW
WATER	WT
WASTE WATER	WW
PRODUCT	P
SOIL/SOLID	SL
OIL	OL WP
WIPE	AR
AIR	GT
OTHER	TS
TISSUE	

ITEM #	SAMPLE ID (One Character per box. (A-Z, 0-9 / ,-) Samples IDs MUST BE UNIQUE)	MATRIX CODE	SAMPLE TYPE G=GRAB C=COMP	COLLECTED COMPOSITE START DATE	COLLECTED COMPOSITE START TIME	COLLECTED COMPOSITE END/GRAB DATE	COLLECTED COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	#OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Filtered (Y/N)	Requested Analysis: TO-15	Pace Project Number / Lab I.D.
1	DPE-EXHAUST-0757	A	C	12/21/12	8:30	12/21/12	14:30												X	
2																				
3																				
4																				
5																				
6																				
7																				
8																				
9																				
10																				
11																				
12																				

Additional Comments:

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
[signature] / Landmark	12/26	900	[signature] / Pace	12-26-12	1125

SAMPLE CONDITIONS

Temp in °C	Received on Ice	Custody Sealed Cooler	Samples Intact
cool	Y/N	Y/N	Y/N
	Y/N	Y/N	Y/N
	Y/N	Y/N	Y/N
	Y/N	Y/N	Y/N

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: [signature]

SIGNATURE of SAMPLER: DATE Signed (MM / DD / YY): 12/21/12

Pace Analytical®	Document Name: Air Sample Condition Upon Receipt	Document Revised: 13Nov2012 Page 1 of 1
	Document No.: F-MN-A-106-rev.06	Issuing Authority: Pace Minnesota Quality Office

Air Sample Condition Upon Receipt

Client Name: Landmark

Project #: WO# : 10216286

10216286

Courier: ☐Fed Ex ☐UPS ☐USPS ☒Client ☐Commercial ☐Pace ☐Other:

Tracking Number:

Custody Seal on Cooler/Box Present? ☐Yes ☒No **Seals Intact?** ☐Yes ☒No

Optional: Proj. Due Date: Proj. Name:

Packing Material: ☒Bubble Wrap ☐Bubble Bags ☐Foam ☐None ☐Other:

Temperature (TO17 and TO13 samples only) (°C): cool **Corrected Temp (°C):** **Thermometer Used:** ☐B88A912167504 ☐80512447

Temp should be above freezing to 6°C

Date & Initials of Person Examining Contents: 12-26-12

Comments:

Chain of Custody Present?	☒Yes	☐No	☐N/A	1.
Chain of Custody Filled Out?	☒Yes	☐No	☐N/A	2.
Chain of Custody Relinquished?	☒Yes	☐No	☐N/A	3.
Sampler Name and/or Signature on COC?	☒Yes	☐No	☐N/A	4.
Samples Arrived within Hold Time?	☒Yes	☐No	☐N/A	5.
Short Hold Time Analysis (<72 hr)?	☐Yes	☒No	☐N/A	6.
Rush Turn Around Time Requested?	☐Yes	☒No	☐N/A	7.
Sufficient Volume?	☒Yes	☐No	☐N/A	8.
Correct Containers Used?	☒Yes	☐No	☐N/A	9.
-Pace Containers Used?	☒Yes	☐No	☐N/A	
Containers Intact?	☒Yes	☐No	☐N/A	10.
Media: 1 can 1 FC				11.
Sample Labels Match COC?	☒Yes	☐No	☐N/A	12.

Samples Received:

Canisters		Flow Controllers		Stand Alone G	
Sample Number	Can ID	Sample Number	Can ID	Sample Number	Can ID
SPE-Exhaust	Pace 0757		FC 0525		

CLIENT NOTIFICATION/RESOLUTION

Field Data Required? ☐Yes ☐No

Person Contacted: Date/Time:

Comments/Resolution:

Project Manager Review: Date: 12/26/12

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e out of hold, incorrect preservative, out of temp, incorrect containers)

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November 02, 2012

Mr. Jason Skramstad
Landmark Environmental
2042 W. 98th. St.
Minneapolis, MN 55431

RE: Project: CRC City of Rochester
Pace Project No.: 10210409

Dear Mr. Skramstad:
Enclosed are the analytical results for sample(s) received by the laboratory on October 26, 2012. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Carolynne Trout

Carolynne Trout

carolynne.trout@pacelabs.com
Project Manager

Enclosures

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CERTIFICATIONS

Project: CRC City of Rochester
Pace Project No.: 10210409

Minnesota Certification IDs
1700 Elm Street SE Suite 200, Minneapolis, MN 55414
A2LA Certification #: 2926.01
Alaska Certification #: UST-078
Alaska Certification #MN00064
Arizona Certification #: AZ-0014
Arkansas Certification #: 88-0680
California Certification #: 01155CA
Colorado Certification #Pace
Connecticut Certification #: PH-0256
EPA Region 8 Certification #: Pace
Florida/NELAP Certification #: E87605
Georgia Certification #: 959
Hawaii Certification #Pace
Idaho Certification #: MN00064
Illinois Certification #: 200011
Kansas Certification #: E-10167
Louisiana Certification #: 03086
Louisiana Certification #: LA080009
Maine Certification #: 2007029
Maryland Certification #: 322
Michigan DEQ Certification #: 9909
Minnesota Certification #: 027-053-137
Mississippi Certification #: Pace
Montana Certification #: MT CERT0092
Nevada Certification #: MN_00064
Nebraska Certification #: Pace
New Jersey Certification #: MN-002
New York Certification #: 11647
North Carolina Certification #: 530
North Dakota Certification #: R-036
North Dakota Certification #: R-036A
Ohio VAP Certification #: CL101
Oklahoma Certification #: 9507
Oregon Certification #: MN200001
Oregon Certification #: MN300001
Pennsylvania Certification #: 68-00563
Puerto Rico Certification
Tennessee Certification #: 02818
Texas Certification #: T104704192
Utah Certification #: MN00064
Virginia/DCLS Certification #: 002521
Virginia/VELAP Certification #: 460163
Washington Certification #: C754
West Virginia Certification #: 382
Wisconsin Certification #: 999407970

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SAMPLE SUMMARY

Project: CRC City of Rochester
Pace Project No.: 10210409

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10210409001	**AS-Influent**	Water	10/26/12 10:00	10/26/12 16:57
10210409002	**AS-Effluent**	Water	10/26/12 10:08	10/26/12 16:57

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SAMPLE ANALYTE COUNT

Project: CRC City of Rochester
Pace Project No.: 10210409

Lab ID	Sample ID	Method	Analysts	Analytes Reported
10210409001	**AS-Influent**	EPA 624	DJT	83
10210409002	**AS-Effluent**	EPA 624	DJT	83

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ANALYTICAL RESULTS

Project: CRC City of Rochester
Pace Project No.: 10210409

Sample: AS-Influent **Lab ID: 10210409001** Collected: 10/26/12 10:00 Received: 10/26/12 16:57 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
624 MSV	Analytical Method: EPA 624							
Acetone	ND	ug/L	25.0	1		10/30/12 13:43	67-64-1	
Acrolein	ND	ug/L	10.0	1		10/30/12 13:43	107-02-8	
Acrylonitrile	ND	ug/L	10.0	1		10/30/12 13:43	107-13-1	
Allyl chloride	ND	ug/L	4.0	1		10/30/12 13:43	107-05-1	
Benzene	ND	ug/L	1.0	1		10/30/12 13:43	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		10/30/12 13:43	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		10/30/12 13:43	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		10/30/12 13:43	75-27-4	
Bromoform	ND	ug/L	4.0	1		10/30/12 13:43	75-25-2	
Bromomethane	ND	ug/L	4.0	1		10/30/12 13:43	74-83-9	
2-Butanone (MEK)	ND	ug/L	4.0	1		10/30/12 13:43	78-93-3	
n-Butylbenzene	ND	ug/L	1.0	1		10/30/12 13:43	104-51-8	
sec-Butylbenzene	ND	ug/L	1.0	1		10/30/12 13:43	135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	1		10/30/12 13:43	98-06-6	
Carbon disulfide	ND	ug/L	1.0	1		10/30/12 13:43	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	1		10/30/12 13:43	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		10/30/12 13:43	108-90-7	
Chloroethane	ND	ug/L	1.0	1		10/30/12 13:43	75-00-3	
2-Chloroethylvinyl ether	ND	ug/L	10.0	1		10/30/12 13:43	110-75-8	
Chloroform	ND	ug/L	1.0	1		10/30/12 13:43	67-66-3	
Chloromethane	ND	ug/L	4.0	1		10/30/12 13:43	74-87-3	
Chloroprene	ND	ug/L	1.0	1		10/30/12 13:43	126-99-8	
2-Chlorotoluene	ND	ug/L	1.0	1		10/30/12 13:43	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		10/30/12 13:43	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	4.0	1		10/30/12 13:43	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		10/30/12 13:43	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		10/30/12 13:43	106-93-4	
Dibromomethane	ND	ug/L	4.0	1		10/30/12 13:43	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		10/30/12 13:43	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		10/30/12 13:43	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		10/30/12 13:43	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		10/30/12 13:43	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		10/30/12 13:43	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		10/30/12 13:43	107-06-2	
1,2-Dichloroethene (Total)	ND	ug/L	2.0	1		10/30/12 13:43	540-59-0	
1,1-Dichloroethene	ND	ug/L	1.0	1		10/30/12 13:43	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		10/30/12 13:43	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		10/30/12 13:43	156-60-5	
Dichlorofluoromethane	ND	ug/L	1.0	1		10/30/12 13:43	75-43-4	
1,2-Dichloropropane	ND	ug/L	4.0	1		10/30/12 13:43	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		10/30/12 13:43	142-28-9	
2,2-Dichloropropane	ND	ug/L	4.0	1		10/30/12 13:43	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		10/30/12 13:43	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	4.0	1		10/30/12 13:43	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	4.0	1		10/30/12 13:43	10061-02-6	
Diethyl ether (Ethyl ether)	ND	ug/L	4.0	1		10/30/12 13:43	60-29-7	
Ethylbenzene	ND	ug/L	1.0	1		10/30/12 13:43	100-41-4	

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ANALYTICAL RESULTS

Project: CRC City of Rochester
Pace Project No.: 10210409

Sample: AS-Influent **Lab ID: 10210409001** Collected: 10/26/12 10:00 Received: 10/26/12 16:57 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
624 MSV	Analytical Method: EPA 624							
Hexachloro-1,3-butadiene	ND	ug/L	5.0	1		10/30/12 13:43	87-68-3	
2-Hexanone	ND	ug/L	4.0	1		10/30/12 13:43	591-78-6	
Iodomethane	ND	ug/L	4.0	1		10/30/12 13:43	74-88-4	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		10/30/12 13:43	98-82-8	
p-Isopropyltoluene	ND	ug/L	1.0	1		10/30/12 13:43	99-87-6	
Methylene Chloride	ND	ug/L	4.0	1		10/30/12 13:43	75-09-2	
2-Methylnaphthalene	ND	ug/L	5.0	1		10/30/12 13:43	91-57-6	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	4.0	1		10/30/12 13:43	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		10/30/12 13:43	1634-04-4	
Naphthalene	ND	ug/L	4.0	1		10/30/12 13:43	91-20-3	
n-Propylbenzene	ND	ug/L	1.0	1		10/30/12 13:43	103-65-1	
Styrene	ND	ug/L	1.0	1		10/30/12 13:43	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		10/30/12 13:43	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		10/30/12 13:43	79-34-5	
Tetrachloroethene	**35.7**	ug/L	1.0	1		10/30/12 13:43	127-18-4	
Tetrahydrofuran	ND	ug/L	10.0	1		10/30/12 13:43	109-99-9	
Toluene	ND	ug/L	1.0	1		10/30/12 13:43	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		10/30/12 13:43	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		10/30/12 13:43	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		10/30/12 13:43	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		10/30/12 13:43	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		10/30/12 13:43	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		10/30/12 13:43	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	4.0	1		10/30/12 13:43	96-18-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/L	1.0	1		10/30/12 13:43	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1		10/30/12 13:43	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1		10/30/12 13:43	108-67-8	
Vinyl acetate	ND	ug/L	10.0	1		10/30/12 13:43	108-05-4	
Vinyl chloride	ND	ug/L	0.40	1		10/30/12 13:43	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		10/30/12 13:43	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		10/30/12 13:43	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		10/30/12 13:43	95-47-6	
Surrogates								
Dibromofluoromethane (S)	104	%	75-125	1		10/30/12 13:43	1868-53-7	
1,2-Dichloroethane-d4 (S)	102	%	75-125	1		10/30/12 13:43	17060-07-0	
Toluene-d8 (S)	100	%	75-125	1		10/30/12 13:43	2037-26-5	
4-Bromofluorobenzene (S)	99	%	75-125	1		10/30/12 13:43	460-00-4	

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ANALYTICAL RESULTS

Project: CRC City of Rochester
Pace Project No.: 10210409

Sample: AS-Effluent **Lab ID: 10210409002** Collected: 10/26/12 10:08 Received: 10/26/12 16:57 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
624 MSV	Analytical Method: EPA 624							
Acetone	ND	ug/L	25.0	1		10/30/12 12:54	67-64-1	
Acrolein	ND	ug/L	10.0	1		10/30/12 12:54	107-02-8	
Acrylonitrile	ND	ug/L	10.0	1		10/30/12 12:54	107-13-1	
Allyl chloride	ND	ug/L	4.0	1		10/30/12 12:54	107-05-1	
Benzene	ND	ug/L	1.0	1		10/30/12 12:54	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		10/30/12 12:54	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		10/30/12 12:54	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		10/30/12 12:54	75-27-4	
Bromoform	ND	ug/L	4.0	1		10/30/12 12:54	75-25-2	
Bromomethane	ND	ug/L	4.0	1		10/30/12 12:54	74-83-9	
2-Butanone (MEK)	ND	ug/L	4.0	1		10/30/12 12:54	78-93-3	
n-Butylbenzene	ND	ug/L	1.0	1		10/30/12 12:54	104-51-8	
sec-Butylbenzene	ND	ug/L	1.0	1		10/30/12 12:54	135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	1		10/30/12 12:54	98-06-6	
Carbon disulfide	ND	ug/L	1.0	1		10/30/12 12:54	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	1		10/30/12 12:54	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		10/30/12 12:54	108-90-7	
Chloroethane	ND	ug/L	1.0	1		10/30/12 12:54	75-00-3	
2-Chloroethylvinyl ether	ND	ug/L	10.0	1		10/30/12 12:54	110-75-8	
Chloroform	ND	ug/L	1.0	1		10/30/12 12:54	67-66-3	
Chloromethane	ND	ug/L	4.0	1		10/30/12 12:54	74-87-3	
Chloroprene	ND	ug/L	1.0	1		10/30/12 12:54	126-99-8	
2-Chlorotoluene	ND	ug/L	1.0	1		10/30/12 12:54	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		10/30/12 12:54	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	4.0	1		10/30/12 12:54	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		10/30/12 12:54	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		10/30/12 12:54	106-93-4	
Dibromomethane	ND	ug/L	4.0	1		10/30/12 12:54	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		10/30/12 12:54	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		10/30/12 12:54	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		10/30/12 12:54	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		10/30/12 12:54	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		10/30/12 12:54	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		10/30/12 12:54	107-06-2	
1,2-Dichloroethene (Total)	ND	ug/L	2.0	1		10/30/12 12:54	540-59-0	
1,1-Dichloroethene	ND	ug/L	1.0	1		10/30/12 12:54	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		10/30/12 12:54	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		10/30/12 12:54	156-60-5	
Dichlorofluoromethane	ND	ug/L	1.0	1		10/30/12 12:54	75-43-4	
1,2-Dichloropropane	ND	ug/L	4.0	1		10/30/12 12:54	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		10/30/12 12:54	142-28-9	
2,2-Dichloropropane	ND	ug/L	4.0	1		10/30/12 12:54	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		10/30/12 12:54	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	4.0	1		10/30/12 12:54	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	4.0	1		10/30/12 12:54	10061-02-6	
Diethyl ether (Ethyl ether)	ND	ug/L	4.0	1		10/30/12 12:54	60-29-7	
Ethylbenzene	ND	ug/L	1.0	1		10/30/12 12:54	100-41-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: CRC City of Rochester
Pace Project No.: 10210409

Sample: AS-Effluent **Lab ID: 10210409002** Collected: 10/26/12 10:08 Received: 10/26/12 16:57 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
624 MSV	Analytical Method: EPA 624							
Hexachloro-1,3-butadiene	ND	ug/L	5.0	1		10/30/12 12:54	87-68-3	
2-Hexanone	ND	ug/L	4.0	1		10/30/12 12:54	591-78-6	
Iodomethane	ND	ug/L	4.0	1		10/30/12 12:54	74-88-4	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		10/30/12 12:54	98-82-8	
p-Isopropyltoluene	ND	ug/L	1.0	1		10/30/12 12:54	99-87-6	
Methylene Chloride	ND	ug/L	4.0	1		10/30/12 12:54	75-09-2	
2-Methylnaphthalene	ND	ug/L	5.0	1		10/30/12 12:54	91-57-6	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	4.0	1		10/30/12 12:54	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		10/30/12 12:54	1634-04-4	
Naphthalene	ND	ug/L	4.0	1		10/30/12 12:54	91-20-3	
n-Propylbenzene	ND	ug/L	1.0	1		10/30/12 12:54	103-65-1	
Styrene	ND	ug/L	1.0	1		10/30/12 12:54	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		10/30/12 12:54	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		10/30/12 12:54	79-34-5	
Tetrachloroethene	**1.6**	ug/L	1.0	1		10/30/12 12:54	127-18-4	
Tetrahydrofuran	ND	ug/L	10.0	1		10/30/12 12:54	109-99-9	
Toluene	ND	ug/L	1.0	1		10/30/12 12:54	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		10/30/12 12:54	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		10/30/12 12:54	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		10/30/12 12:54	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		10/30/12 12:54	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		10/30/12 12:54	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		10/30/12 12:54	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	4.0	1		10/30/12 12:54	96-18-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/L	1.0	1		10/30/12 12:54	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1		10/30/12 12:54	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1		10/30/12 12:54	108-67-8	
Vinyl acetate	ND	ug/L	10.0	1		10/30/12 12:54	108-05-4	
Vinyl chloride	ND	ug/L	0.40	1		10/30/12 12:54	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		10/30/12 12:54	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		10/30/12 12:54	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		10/30/12 12:54	95-47-6	
Surrogates								
Dibromofluoromethane (S)	103	%	75-125	1		10/30/12 12:54	1868-53-7	
1,2-Dichloroethane-d4 (S)	103	%	75-125	1		10/30/12 12:54	17060-07-0	
Toluene-d8 (S)	100	%	75-125	1		10/30/12 12:54	2037-26-5	
4-Bromofluorobenzene (S)	99	%	75-125	1		10/30/12 12:54	460-00-4	

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QUALITY CONTROL DATA

Project: CRC City of Rochester
Pace Project No.: 10210409

QC Batch: MSV/21931
QC Batch Method: EPA 624
Analysis Method: EPA 624
Analysis Description: 624 MSV
Associated Lab Samples: 10210409001, 10210409002

METHOD BLANK: 1322028
Matrix: Water
Associated Lab Samples: 10210409001, 10210409002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	1.0	10/30/12 10:04	
1,1,1-Trichloroethane	ug/L	ND	1.0	10/30/12 10:04	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	10/30/12 10:04	
1,1,2-Trichloroethane	ug/L	ND	1.0	10/30/12 10:04	
1,1,2-Trichlorotrifluoroethane	ug/L	ND	1.0	10/30/12 10:04	
1,1-Dichloroethane	ug/L	ND	1.0	10/30/12 10:04	
1,1-Dichloroethene	ug/L	ND	1.0	10/30/12 10:04	
1,1-Dichloropropene	ug/L	ND	1.0	10/30/12 10:04	
1,2,3-Trichlorobenzene	ug/L	ND	1.0	10/30/12 10:04	
1,2,3-Trichloropropane	ug/L	ND	4.0	10/30/12 10:04	
1,2,4-Trichlorobenzene	ug/L	ND	1.0	10/30/12 10:04	
1,2,4-Trimethylbenzene	ug/L	ND	1.0	10/30/12 10:04	
1,2-Dibromo-3-chloropropane	ug/L	ND	4.0	10/30/12 10:04	
1,2-Dibromoethane (EDB)	ug/L	ND	1.0	10/30/12 10:04	
1,2-Dichlorobenzene	ug/L	ND	1.0	10/30/12 10:04	
1,2-Dichloroethane	ug/L	ND	1.0	10/30/12 10:04	
1,2-Dichloroethene (Total)	ug/L	ND	2.0	10/30/12 10:04	
1,2-Dichloropropane	ug/L	ND	4.0	10/30/12 10:04	
1,3,5-Trimethylbenzene	ug/L	ND	1.0	10/30/12 10:04	
1,3-Dichlorobenzene	ug/L	ND	1.0	10/30/12 10:04	
1,3-Dichloropropane	ug/L	ND	1.0	10/30/12 10:04	
1,4-Dichlorobenzene	ug/L	ND	1.0	10/30/12 10:04	
2,2-Dichloropropane	ug/L	ND	4.0	10/30/12 10:04	
2-Butanone (MEK)	ug/L	ND	4.0	10/30/12 10:04	
2-Chloroethylvinyl ether	ug/L	ND	10.0	10/30/12 10:04	
2-Chlorotoluene	ug/L	ND	1.0	10/30/12 10:04	
2-Hexanone	ug/L	ND	4.0	10/30/12 10:04	
2-Methylnaphthalene	ug/L	ND	5.0	10/30/12 10:04	
4-Chlorotoluene	ug/L	ND	1.0	10/30/12 10:04	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	4.0	10/30/12 10:04	
Acetone	ug/L	ND	25.0	10/30/12 10:04	
Acrolein	ug/L	ND	10.0	10/30/12 10:04	
Acrylonitrile	ug/L	ND	10.0	10/30/12 10:04	
Allyl chloride	ug/L	ND	4.0	10/30/12 10:04	
Benzene	ug/L	ND	1.0	10/30/12 10:04	
Bromobenzene	ug/L	ND	1.0	10/30/12 10:04	
Bromochloromethane	ug/L	ND	1.0	10/30/12 10:04	
Bromodichloromethane	ug/L	ND	1.0	10/30/12 10:04	
Bromoform	ug/L	ND	4.0	10/30/12 10:04	
Bromomethane	ug/L	ND	4.0	10/30/12 10:04	
Carbon disulfide	ug/L	ND	1.0	10/30/12 10:04	
Carbon tetrachloride	ug/L	ND	1.0	10/30/12 10:04	
Chlorobenzene	ug/L	ND	1.0	10/30/12 10:04	

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QUALITY CONTROL DATA

Project: CRC City of Rochester
Pace Project No.: 10210409

METHOD BLANK: 1322028 Matrix: Water

Associated Lab Samples: 10210409001, 10210409002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloroethane	ug/L	ND	1.0	10/30/12 10:04	
Chloroform	ug/L	ND	1.0	10/30/12 10:04	
Chloromethane	ug/L	ND	4.0	10/30/12 10:04	
Chloroprene	ug/L	ND	1.0	10/30/12 10:04	
cis-1,2-Dichloroethene	ug/L	ND	1.0	10/30/12 10:04	
cis-1,3-Dichloropropene	ug/L	ND	4.0	10/30/12 10:04	
Dibromochloromethane	ug/L	ND	1.0	10/30/12 10:04	
Dibromomethane	ug/L	ND	4.0	10/30/12 10:04	
Dichlorodifluoromethane	ug/L	ND	1.0	10/30/12 10:04	
Dichlorofluoromethane	ug/L	ND	1.0	10/30/12 10:04	
Diethyl ether (Ethyl ether)	ug/L	ND	4.0	10/30/12 10:04	
Ethylbenzene	ug/L	ND	1.0	10/30/12 10:04	
Hexachloro-1,3-butadiene	ug/L	ND	5.0	10/30/12 10:04	
Iodomethane	ug/L	ND	4.0	10/30/12 10:04	
Isopropylbenzene (Cumene)	ug/L	ND	1.0	10/30/12 10:04	
m&p-Xylene	ug/L	ND	2.0	10/30/12 10:04	
Methyl-tert-butyl ether	ug/L	ND	1.0	10/30/12 10:04	
Methylene Chloride	ug/L	ND	4.0	10/30/12 10:04	
n-Butylbenzene	ug/L	ND	1.0	10/30/12 10:04	
n-Propylbenzene	ug/L	ND	1.0	10/30/12 10:04	
Naphthalene	ug/L	ND	4.0	10/30/12 10:04	
o-Xylene	ug/L	ND	1.0	10/30/12 10:04	
p-Isopropyltoluene	ug/L	ND	1.0	10/30/12 10:04	
sec-Butylbenzene	ug/L	ND	1.0	10/30/12 10:04	
Styrene	ug/L	ND	1.0	10/30/12 10:04	
tert-Butylbenzene	ug/L	ND	1.0	10/30/12 10:04	
Tetrachloroethene	ug/L	ND	1.0	10/30/12 10:04	
Tetrahydrofuran	ug/L	ND	10.0	10/30/12 10:04	
Toluene	ug/L	ND	1.0	10/30/12 10:04	
trans-1,2-Dichloroethene	ug/L	ND	1.0	10/30/12 10:04	
trans-1,3-Dichloropropene	ug/L	ND	4.0	10/30/12 10:04	
Trichloroethene	ug/L	ND	1.0	10/30/12 10:04	
Trichlorofluoromethane	ug/L	ND	1.0	10/30/12 10:04	
Vinyl acetate	ug/L	ND	10.0	10/30/12 10:04	
Vinyl chloride	ug/L	ND	0.40	10/30/12 10:04	
Xylene (Total)	ug/L	ND	3.0	10/30/12 10:04	
1,2-Dichloroethane-d4 (S)	%	102	75-125	10/30/12 10:04	
4-Bromofluorobenzene (S)	%	100	75-125	10/30/12 10:04	
Dibromofluoromethane (S)	%	102	75-125	10/30/12 10:04	
Toluene-d8 (S)	%	102	75-125	10/30/12 10:04	

LABORATORY CONTROL SAMPLE: 1322029

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	20	21.3	107	75-125	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: CRC City of Rochester
Pace Project No.: 10210409

LABORATORY CONTROL SAMPLE: 1322029

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	20	20.4	102	75-129	
1,1,2,2-Tetrachloroethane	ug/L	20	19.7	98	69-126	
1,1,2-Trichloroethane	ug/L	20	19.6	98	75-125	
1,1,2-Trichlorotrifluoroethane	ug/L	20	21.2	106	70-127	
1,1-Dichloroethane	ug/L	20	21.3	107	75-128	
1,1-Dichloroethene	ug/L	20	19.4	97	72-130	
1,1-Dichloropropene	ug/L	20	19.9	99	75-130	
1,2,3-Trichlorobenzene	ug/L	20	18.7	93	75-125	
1,2,3-Trichloropropane	ug/L	20	19.2	96	75-125	
1,2,4-Trichlorobenzene	ug/L	20	18.5	92	75-126	
1,2,4-Trimethylbenzene	ug/L	20	20.3	102	75-125	
1,2-Dibromo-3-chloropropane	ug/L	20	17.3	86	72-125	
1,2-Dibromoethane (EDB)	ug/L	20	19.4	97	75-125	
1,2-Dichlorobenzene	ug/L	20	19.0	95	75-125	
1,2-Dichloroethane	ug/L	20	19.8	99	75-125	
1,2-Dichloroethene (Total)	ug/L	40	41.8	105	75-125	
1,2-Dichloropropane	ug/L	20	20.3	101	75-125	
1,3,5-Trimethylbenzene	ug/L	20	19.7	98	75-125	
1,3-Dichlorobenzene	ug/L	20	19.2	96	75-125	
1,3-Dichloropropane	ug/L	20	19.9	99	75-125	
1,4-Dichlorobenzene	ug/L	20	18.9	94	75-125	
2,2-Dichloropropane	ug/L	20	21.0	105	75-133	
2-Butanone (MEK)	ug/L	20	19.2	96	62-132	
2-Chloroethylvinyl ether	ug/L	50	51.3	103	75-125	
2-Chlorotoluene	ug/L	20	19.8	99	74-126	
2-Hexanone	ug/L	20	18.8	94	74-125	
2-Methylnaphthalene	ug/L	10	8.9	89	63-126	
4-Chlorotoluene	ug/L	20	20.0	100	75-126	
4-Methyl-2-pentanone (MIBK)	ug/L	20	19.5	97	73-125	
Acetone	ug/L	50	51.0	102	35-150	
Acrolein	ug/L	200	200	100	62-143	
Acrylonitrile	ug/L	200	204	102	75-125	
Allyl chloride	ug/L	20	21.1	105	71-139	
Benzene	ug/L	20	20.9	105	74-126	
Bromobenzene	ug/L	20	18.8	94	75-125	
Bromochloromethane	ug/L	20	20.5	102	75-125	
Bromodichloromethane	ug/L	20	20.9	104	75-125	
Bromoform	ug/L	20	20.1	100	75-126	
Bromomethane	ug/L	20	20.0	100	59-146	
Carbon disulfide	ug/L	20	17.4	87	66-133	
Carbon tetrachloride	ug/L	20	21.3	107	72-133	
Chlorobenzene	ug/L	20	19.8	99	75-125	
Chloroethane	ug/L	20	19.1	96	73-138	
Chloroform	ug/L	20	20.9	105	75-125	
Chloromethane	ug/L	20	20.3	101	68-129	
Chloroprene	ug/L	20	20.6	103	68-133	
cis-1,2-Dichloroethene	ug/L	20	20.5	102	75-125	
cis-1,3-Dichloropropene	ug/L	20	21.0	105	75-125	

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QUALITY CONTROL DATA

Project: CRC City of Rochester
Pace Project No.: 10210409

LABORATORY CONTROL SAMPLE: 1322029

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Dibromochloromethane	ug/L	20	19.5	97	75-125	
Dibromomethane	ug/L	20	20.3	101	75-125	
Dichlorodifluoromethane	ug/L	20	18.4	92	75-150	
Dichlorofluoromethane	ug/L	20	20.3	101	75-128	
Diethyl ether (Ethyl ether)	ug/L	20	20.8	104	75-125	
Ethylbenzene	ug/L	20	18.9	95	75-125	
Hexachloro-1,3-butadiene	ug/L	10	9.3	93	61-133	
Iodomethane	ug/L	20	16.9	85	55-149	
Isopropylbenzene (Cumene)	ug/L	20	20.2	101	75-125	
m&p-Xylene	ug/L	40	40.4	101	75-125	
Methyl-tert-butyl ether	ug/L	20	20.5	103	75-125	
Methylene Chloride	ug/L	20	20.3	102	75-125	
n-Butylbenzene	ug/L	20	20.0	100	72-130	
n-Propylbenzene	ug/L	20	20.0	100	74-129	
Naphthalene	ug/L	20	18.4	92	75-125	
o-Xylene	ug/L	20	20.2	101	75-125	
p-Isopropyltoluene	ug/L	20	20.3	101	73-130	
sec-Butylbenzene	ug/L	20	20.7	104	71-131	
Styrene	ug/L	20	20.6	103	75-125	
tert-Butylbenzene	ug/L	20	20.1	100	73-129	
Tetrachloroethene	ug/L	20	18.4	92	74-127	
Tetrahydrofuran	ug/L	200	192	96	71-127	
Toluene	ug/L	20	19.7	98	75-125	
trans-1,2-Dichloroethene	ug/L	20	20.3	102	74-127	
trans-1,3-Dichloropropene	ug/L	20	21.4	107	75-125	
Trichloroethene	ug/L	20	19.5	97	75-125	
Trichlorofluoromethane	ug/L	20	20.0	100	75-150	
Vinyl acetate	ug/L	20	20.1	100	75-128	
Vinyl chloride	ug/L	20	20.4	102	75-132	
Xylene (Total)	ug/L	60	60.6	101	75-125	
1,2-Dichloroethane-d4 (S)	%			102	75-125	
4-Bromofluorobenzene (S)	%			99	75-125	
Dibromofluoromethane (S)	%			104	75-125	
Toluene-d8 (S)	%			102	75-125	

MATRIX SPIKE SAMPLE: 1322030

Parameter	Units	10210236001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	20	21.7	109	75-126	
1,1,1-Trichloroethane	ug/L	ND	20	23.0	115	75-141	
1,1,2,2-Tetrachloroethane	ug/L	ND	20	20.8	104	68-129	
1,1,2-Trichloroethane	ug/L	ND	20	20.1	100	75-125	
1,1,2-Trichlorotrifluoroethane	ug/L	ND	20	28.0	140	75-150	
1,1-Dichloroethane	ug/L	ND	20	22.6	113	75-139	
1,1-Dichloroethene	ug/L	ND	20	22.7	110	75-147	
1,1-Dichloropropene	ug/L	ND	20	22.5	113	75-150	
1,2,3-Trichlorobenzene	ug/L	ND	20	19.4	97	75-125	

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QUALITY CONTROL DATA

Project: CRC City of Rochester
Pace Project No.: 10210409

MATRIX SPIKE SAMPLE: 1322030

Parameter	Units	10210236001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,2,3-Trichloropropane	ug/L	ND	20	20.6	103	71-125	
1,2,4-Trichlorobenzene	ug/L	ND	20	19.5	97	75-127	
1,2,4-Trimethylbenzene	ug/L	ND	20	21.7	108	74-133	
1,2-Dibromo-3-chloropropane	ug/L	ND	20	17.8	89	69-125	
1,2-Dibromoethane (EDB)	ug/L	ND	20	19.6	98	75-125	
1,2-Dichlorobenzene	ug/L	ND	20	19.7	98	75-125	
1,2-Dichloroethane	ug/L	ND	20	20.4	102	75-130	
1,2-Dichloroethene (Total)	ug/L	29.0	40	72.4	109	70-130	
1,2-Dichloropropane	ug/L	ND	20	21.2	106	75-129	
1,3,5-Trimethylbenzene	ug/L	ND	20	21.5	108	72-135	
1,3-Dichlorobenzene	ug/L	ND	20	20.3	102	75-125	
1,3-Dichloropropane	ug/L	ND	20	20.4	102	75-125	
1,4-Dichlorobenzene	ug/L	ND	20	19.9	99	75-125	
2,2-Dichloropropane	ug/L	ND	20	23.6	118	75-150	
2-Butanone (MEK)	ug/L	ND	20	20.1	100	56-126	
2-Chloroethylvinyl ether	ug/L	ND	50	ND	0	30-125	M1
2-Chlorotoluene	ug/L	ND	20	21.3	106	75-130	
2-Hexanone	ug/L	ND	20	19.3	96	68-125	
2-Methylnaphthalene	ug/L	ND	10	9.5	95	60-130	
4-Chlorotoluene	ug/L	ND	20	21.4	107	75-127	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	20	20.3	101	69-128	
Acetone	ug/L	ND	50	49.0	98	32-129	
Acrolein	ug/L	ND	200	211	106	44-150	
Acrylonitrile	ug/L	ND	200	211	106	70-130	
Allyl chloride	ug/L	ND	20	22.5	113	61-150	
Benzene	ug/L	ND	20	22.7	113	75-135	
Bromobenzene	ug/L	ND	20	20.2	101	75-125	
Bromochloromethane	ug/L	ND	20	21.3	107	75-128	
Bromodichloromethane	ug/L	ND	20	21.7	108	75-127	
Bromoform	ug/L	ND	20	20.3	101	76-125	
Bromomethane	ug/L	ND	20	21.3	107	64-150	
Carbon disulfide	ug/L	ND	20	19.6	98	51-150	
Carbon tetrachloride	ug/L	ND	20	24.4	122	75-148	
Chlorobenzene	ug/L	ND	20	20.8	104	75-125	
Chloroethane	ug/L	ND	20	21.1	105	75-146	
Chloroform	ug/L	ND	20	22.3	111	75-131	
Chloromethane	ug/L	ND	20	22.1	111	73-141	
Chloroprene	ug/L	ND	20	23.0	115	63-150	
cis-1,2-Dichloroethene	ug/L	29.0	20	50.9	110	75-136	
cis-1,3-Dichloropropene	ug/L	ND	20	21.5	107	75-130	
Dibromochloromethane	ug/L	ND	20	19.7	98	75-125	
Dibromomethane	ug/L	ND	20	21.2	106	75-125	
Dichlorodifluoromethane	ug/L	ND	20	24.6	123	75-150	
Dichlorofluoromethane	ug/L	ND	20	22.1	111	75-140	
Diethyl ether (Ethyl ether)	ug/L	ND	20	21.3	107	75-129	
Ethylbenzene	ug/L	ND	20	20.4	102	75-129	
Hexachloro-1,3-butadiene	ug/L	ND	10	10.2	102	72-139	
Iodomethane	ug/L	ND	20	18.7	94	64-150	

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QUALITY CONTROL DATA

Project: CRC City of Rochester
Pace Project No.: 10210409

MATRIX SPIKE SAMPLE: 1322030

Parameter	Units	10210236001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Isopropylbenzene (Cumene)	ug/L	ND	20	22.0	110	75-131	
m&p-Xylene	ug/L	ND	40	43.0	108	75-129	
Methyl-tert-butyl ether	ug/L	ND	20	21.2	106	75-131	
Methylene Chloride	ug/L	ND	20	21.6	108	74-125	
n-Butylbenzene	ug/L	ND	20	21.9	109	75-138	
n-Propylbenzene	ug/L	ND	20	21.9	110	75-134	
Naphthalene	ug/L	ND	20	19.1	95	75-125	
o-Xylene	ug/L	ND	20	21.4	107	75-128	
p-Isopropyltoluene	ug/L	ND	20	22.1	110	75-136	
sec-Butylbenzene	ug/L	ND	20	22.7	114	75-135	
Styrene	ug/L	ND	20	21.4	107	59-144	
tert-Butylbenzene	ug/L	ND	20	22.2	111	75-133	
Tetrachloroethene	ug/L	ND	20	20.4	102	75-136	
Tetrahydrofuran	ug/L	ND	200	199	99	64-134	
Toluene	ug/L	ND	20	21.0	105	75-127	
trans-1,2-Dichloroethene	ug/L	ND	20	23.4	113	75-142	
trans-1,3-Dichloropropene	ug/L	ND	20	21.5	108	74-129	
Trichloroethene	ug/L	38.2	20	59.9	109	75-136	
Trichlorofluoromethane	ug/L	ND	20	24.3	121	75-150	
Vinyl acetate	ug/L	ND	20	20.5	103	58-145	
Vinyl chloride	ug/L	5.7	20	29.0	116	75-150	
Xylene (Total)	ug/L	ND	60	64.4	107	75-128	
1,2-Dichloroethane-d4 (S)	%				103	75-125	
4-Bromofluorobenzene (S)	%				100	75-125	
Dibromofluoromethane (S)	%				105	75-125	
Toluene-d8 (S)	%				101	75-125	

SAMPLE DUPLICATE: 1322031

Parameter	Units	10210409001 Result	Dup Result	RPD	Max RPD	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	ND		30	
1,1,1-Trichloroethane	ug/L	ND	ND		30	
1,1,2,2-Tetrachloroethane	ug/L	ND	ND		30	
1,1,2-Trichloroethane	ug/L	ND	ND		30	
1,1,2-Trichlorotrifluoroethane	ug/L	ND	.21J		30	
1,1-Dichloroethane	ug/L	ND	ND		30	
1,1-Dichloroethene	ug/L	ND	ND		30	
1,1-Dichloropropene	ug/L	ND	ND		30	
1,2,3-Trichlorobenzene	ug/L	ND	ND		30	
1,2,3-Trichloropropane	ug/L	ND	ND		30	
1,2,4-Trichlorobenzene	ug/L	ND	ND		30	
1,2,4-Trimethylbenzene	ug/L	ND	ND		30	
1,2-Dibromo-3-chloropropane	ug/L	ND	ND		30	
1,2-Dibromoethane (EDB)	ug/L	ND	ND		30	
1,2-Dichlorobenzene	ug/L	ND	ND		30	
1,2-Dichloroethane	ug/L	ND	ND		30	
1,2-Dichloroethene (Total)	ug/L	ND	ND		30	

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QUALITY CONTROL DATA

Project: CRC City of Rochester
Pace Project No.: 10210409

SAMPLE DUPLICATE: 1322031

Parameter	Units	10210409001 Result	Dup Result	RPD	Max RPD	Qualifiers
1,2-Dichloropropane	ug/L	ND	ND		30	
1,3,5-Trimethylbenzene	ug/L	ND	ND		30	
1,3-Dichlorobenzene	ug/L	ND	ND		30	
1,3-Dichloropropane	ug/L	ND	ND		30	
1,4-Dichlorobenzene	ug/L	ND	ND		30	
2,2-Dichloropropane	ug/L	ND	ND		30	
2-Butanone (MEK)	ug/L	ND	ND		30	
2-Chloroethylvinyl ether	ug/L	ND	ND		30	
2-Chlorotoluene	ug/L	ND	ND		30	
2-Hexanone	ug/L	ND	ND		30	
2-Methylnaphthalene	ug/L	ND	ND		30	
4-Chlorotoluene	ug/L	ND	ND		30	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	ND		30	
Acetone	ug/L	ND	ND		30	
Acrolein	ug/L	ND	ND		30	
Acrylonitrile	ug/L	ND	ND		30	
Allyl chloride	ug/L	ND	ND		30	
Benzene	ug/L	ND	ND		30	
Bromobenzene	ug/L	ND	ND		30	
Bromochloromethane	ug/L	ND	ND		30	
Bromodichloromethane	ug/L	ND	ND		30	
Bromoform	ug/L	ND	ND		30	
Bromomethane	ug/L	ND	ND		30	
Carbon disulfide	ug/L	ND	ND		30	
Carbon tetrachloride	ug/L	ND	ND		30	
Chlorobenzene	ug/L	ND	ND		30	
Chloroethane	ug/L	ND	ND		30	
Chloroform	ug/L	ND	ND		30	
Chloromethane	ug/L	ND	ND		30	
Chloroprene	ug/L	ND	ND		30	
cis-1,2-Dichloroethene	ug/L	ND	.21J		30	
cis-1,3-Dichloropropene	ug/L	ND	ND		30	
Dibromochloromethane	ug/L	ND	ND		30	
Dibromomethane	ug/L	ND	ND		30	
Dichlorodifluoromethane	ug/L	ND	ND		30	
Dichlorofluoromethane	ug/L	ND	ND		30	
Diethyl ether (Ethyl ether)	ug/L	ND	ND		30	
Ethylbenzene	ug/L	ND	ND		30	
Hexachloro-1,3-butadiene	ug/L	ND	ND		30	
Iodomethane	ug/L	ND	ND		30	
Isopropylbenzene (Cumene)	ug/L	ND	ND		30	
m&p-Xylene	ug/L	ND	ND		30	
Methyl-tert-butyl ether	ug/L	ND	ND		30	
Methylene Chloride	ug/L	ND	ND		30	
n-Butylbenzene	ug/L	ND	ND		30	
n-Propylbenzene	ug/L	ND	ND		30	
Naphthalene	ug/L	ND	ND		30	
o-Xylene	ug/L	ND	ND		30	

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QUALITY CONTROL DATA

Project: CRC City of Rochester
Pace Project No.: 10210409

SAMPLE DUPLICATE: 1322031

Parameter	Units	10210409001 Result	Dup Result	RPD	Max RPD	Qualifiers
p-Isopropyltoluene	ug/L	ND	ND		30	
sec-Butylbenzene	ug/L	ND	ND		30	
Styrene	ug/L	ND	ND		30	
tert-Butylbenzene	ug/L	ND	ND		30	
Tetrachloroethene	ug/L	35.7	32.9	8	30	
Tetrahydrofuran	ug/L	ND	ND		30	
Toluene	ug/L	ND	ND		30	
trans-1,2-Dichloroethene	ug/L	ND	ND		30	
trans-1,3-Dichloropropene	ug/L	ND	ND		30	
Trichloroethene	ug/L	ND	ND		30	
Trichlorofluoromethane	ug/L	ND	ND		30	
Vinyl acetate	ug/L	ND	ND		30	
Vinyl chloride	ug/L	ND	ND		30	
Xylene (Total)	ug/L	ND	ND		30	
1,2-Dichloroethane-d4 (S)	%	102	102	.09		
4-Bromofluorobenzene (S)	%	99	99	.4		
Dibromofluoromethane (S)	%	104	103	.9		
Toluene-d8 (S)	%	100	101	.8		

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QUALIFIERS

Project: CRC City of Rochester
Pace Project No.: 10210409

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PRL - Pace Reporting Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

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TNI - The NELAC Institute.

ANALYTE QUALIFIERS

M1 Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: CRC City of Rochester
Pace Project No.: 10210409

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10210409001	**AS-Influent**	EPA 624	MSV/21931		
10210409002	**AS-Effluent**	EPA 624	MSV/21931		

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CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

1120

10210409

Section A Required Client Information:	Section B Required Project Information:	Section C Invoice Information:
Company: Landmark Environmental	Report To: Jason Skramstad	Attention: Jason Skramstad
Address: 2042 W. 98th Street	Copy To: Eric Gabrielson	Company Name: Landmark Environmental, LLC
Bloomington, MN 55431		Address: 2042 W. 98th St., Bloomington, MN 55431
Email To: jskramstad@landmarkenv.com	Purchase Order No.:	Pace Quote Reference:
Phone: 952-887-9601, ext 205 Fax: 952-887-9605	Project Name: City of Rochester	Pace Project Manager: Carolynne Trout
Requested Due Date/TAT: Normal	Project Number: CRC	Pace Profile #:

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER

☐ UST ☐ RCRA ☐ THER_____

SITE LOCATION ☐ SA ☐ _ ☐ N ☐ ☐ ☐ OH ☐ SC ☐ VI ☐ THER____

Section D Required Client Information

SAMPLE ID

One Character per box. (A-Z, 0-9 / ,-) IDs MUST BE UNIQUE

Samples

Valid Matrix Codes

MATRIX	CODE
DRINKING WATER	DW
WATER	WT
WASTE WATER	WW
PRODUCT	P
SOIL/SOLID	SL
OIL	OL WP
WIPE	AR
AIR	OT
OTHER	TS
TISSUE	

ITEM #	Samples	MATRIX CODE	SAMPLE TYPE G=GRAB C=COMP	COLLECTED COMPOSITE START DATE	COLLECTED COMPOSITE START TIME	COLLECTED COMPOSITE END/GRAB DATE	COLLECTED COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	#OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Filtered (Y/N)	Requested Analysis: EPA 624	Pace Project Number / Lab I.D.
1	AS-Influent	W	G	10/26/12	10:00				3										X	001
2	AS-Effluent	W	G	10/26/12	10:08				3										X	002
3																				
4																				
5																				
6																				
7																				
8																				
5																				
6																				
7																				
8																				

Additional Comments:

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
				10/26/12	1657

SAMPLE CONDITIONS

Temp in °C	Received on Ice	Custody Sealed Cooler	Samples Intact
4.2	Y/N	Y/N	Y/N
	Y/N	Y/N	Y/N
	Y/N	Y/N	Y/N
	Y/N	Y/N	Y/N

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Eric Gabrielson

SIGNATURE of SAMPLER: DATE Signed (MM / DD / YY): 10/26/12

Pace Analytical	Document Name: Sample Condition Upon Receipt Form	Document Revised: 22Aug2012 Page 1 of 1
	Document No.: F-MN-L-213-rev.04	Issuing Authority: Pace Minnesota Quality Office

Sample Condition Upon Receipt

Client Name: Landmark

Project #: WO# : 10210409

10210409

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☐ Client ☑ Commercial ☐ Pace ☐ Other: _____

Tracking Number: _____

Custody Seal on Cooler/Box Present? ☐ Yes ☑ No **Seals Intact?** ☐ Yes ☐ No

Optional: Proj. Due Date: Proj. Name:

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☐ None ☐ Other: _____ **Temp Blank?** ☑ Yes ☐ No

Thermometer Used: ☐ 888A912167504 ☐ 80512447 **Type of Ice:** ☑ Wet ☐ Blue ☐ None ☐ Samples on ice, cooling process has begun

Cooler Temperature: 4.2 **Biological Tissue Frozen?** ☐ Yes ☐ No **Date and Initials of Person Examining Contents:** 10/26/12 SK

Temp should be above freezing to 6°C

				Comments:
Chain of Custody Present?	☑ Yes	☐ No	☐ N/A	1.
Chain of Custody Filled Out?	☑ Yes	☐ No	☐ N/A	2.
Chain of Custody Relinquished?	☑ Yes 10/26/12	☐ No	☐ N/A	3.
Sampler Name and/or Signature on COC?	☑ Yes	☐ No	☐ N/A	4.
Samples Arrived within Hold Time?	☑ Yes	☐ No	☐ N/A	5.
Short Hold Time Analysis (<72 hr)?	☐ Yes	☑ No	☐ N/A	6.
Rush Turn Around Time Requested?	☐ Yes	☑ No	☐ N/A	7.
Sufficient Volume?	☑ Yes	☐ No	☐ N/A	8.
Correct Containers Used?	☑ Yes	☐ No	☐ N/A	9.
-Pace Containers Used?	☑ Yes	☐ No	☐ N/A	
Containers Intact?	☑ Yes	☐ No	☐ N/A	10.
Filtered Volume Received for Dissolved Tests?	☐ Yes	☐ No	☑ N/A	11.
Sample Labels Match COC?	☑ Yes	☐ No	☐ N/A	12.
-Includes Date/Time/ID/Analysis Matrix: WT				
All containers needing acid/base preservation have been checked? Noncompliances are noted in 13.	☐ Yes	☐ No	☑ N/A	13. ☐ HNO_3 ☐ H_2SO_4 ☐ NaOH ☐ HCl
All containers needing preservation are found to be in compliance with EPA recommendation? (HNO_3, H_2SO_4, HCl<2; NaOH>12)	☐ Yes	☐ No	☐ N/A	Sample #
Exceptions: VOA, Coliform, TOC, Oil and Grease, WI-DRO (water)	☑ Yes	☐ No		Initial when completed: SK Lot # of added preservative:
Headspace in VOA Vials (>6mm)?	☐ Yes	☑ No	☐ N/A	14.
Trip Blank Present?	☐ Yes	☑ No	☐ N/A	15.
Trip Blank Custody Seals Present?	☐ Yes	☑ No	☐ N/A	
Pace Trip Blank Lot # (if purchased): _____				

CLIENT NOTIFICATION/RESOLUTION **Field Data Required?** ☐ Yes ☐ No

Person Contacted: _____ Date/Time: _____

Comments/Resolution: _____

Project Manager Review: _____ **Date:** 10/29/12

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e out of hold, incorrect preservative, out of temp, incorrect containers)

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January 03, 2013

Mr. Jason Skramstad
Landmark Environmental
2042 W. 98th. St.
Minneapolis, MN 55431

RE: Project: City of Rochester
Pace Project No.: 10216276

Dear Mr. Skramstad:
Enclosed are the analytical results for sample(s) received by the laboratory on December 26, 2012. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Carolynne Trout

Carolynne Trout

carolynne.trout@pacelabs.com
Project Manager

Enclosures

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CERTIFICATIONS

Project: City of Rochester
Pace Project No.: 10216276

Minnesota Certification IDs
1700 Elm Street SE Suite 200, Minneapolis, MN 55414
A2LA Certification #: 2926.01
Alaska Certification #: UST-078
Alaska Certification #MN00064
Arizona Certification #: AZ-0014
Arkansas Certification #: 88-0680
California Certification #: 01155CA
Colorado Certification #Pace
Connecticut Certification #: PH-0256
EPA Region 8 Certification #: Pace
Florida/NELAP Certification #: E87605
Georgia Certification #: 959
Hawaii Certification #Pace
Idaho Certification #: MN00064
Illinois Certification #: 200011
Kansas Certification #: E-10167
Louisiana Certification #: 03086
Louisiana Certification #: LA080009
Maine Certification #: 2007029
Maryland Certification #: 322
Michigan DEQ Certification #: 9909
Minnesota Certification #: 027-053-137
Mississippi Certification #: Pace
Montana Certification #: MT CERT0092
Nevada Certification #: MN_00064
Nebraska Certification #: Pace
New Jersey Certification #: MN-002
New York Certification #: 11647
North Carolina Certification #: 530
North Dakota Certification #: R-036
North Dakota Certification #: R-036A
Ohio VAP Certification #: CL101
Oklahoma Certification #: 9507
Oregon Certification #: MN200001
Oregon Certification #: MN300001
Pennsylvania Certification #: 68-00563
Puerto Rico Certification
Tennessee Certification #: 02818
Texas Certification #: T104704192
Utah Certification #: MN00064
Virginia/DCLS Certification #: 002521
Virginia/VELAP Certification #: 460163
Washington Certification #: C754
West Virginia Certification #: 382
Wisconsin Certification #: 999407970

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SAMPLE SUMMARY

Project: City of Rochester
Pace Project No.: 10216276

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10216276001	**AS Influent**	Water	12/21/12 12:10	12/26/12 11:25
10216276002	**AS Effluent**	Water	12/21/12 12:12	12/26/12 11:25

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SAMPLE ANALYTE COUNT

Project: City of Rochester
Pace Project No.: 10216276

Lab ID	Sample ID	Method	Analysts	Analytes Reported
10216276001	AS Influent	EPA 624	SE	74
10216276002	AS Effluent	EPA 624	SE	74

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ANALYTICAL RESULTS

Project: City of Rochester
Pace Project No.: 10216276

Sample: AS Influent **Lab ID: 10216276001** Collected: 12/21/12 12:10 Received: 12/26/12 11:25 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
624 MSV	Analytical Method: EPA 624							
Acetone	ND	ug/L	25.0	1		12/28/12 12:06	67-64-1	
Allyl chloride	ND	ug/L	4.0	1		12/28/12 12:06	107-05-1	
Benzene	ND	ug/L	1.0	1		12/28/12 12:06	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		12/28/12 12:06	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		12/28/12 12:06	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		12/28/12 12:06	75-27-4	
Bromoform	ND	ug/L	4.0	1		12/28/12 12:06	75-25-2	
Bromomethane	ND	ug/L	4.0	1		12/28/12 12:06	74-83-9	
2-Butanone (MEK)	**4.5**	ug/L	4.0	1		12/28/12 12:06	78-93-3	
n-Butylbenzene	ND	ug/L	1.0	1		12/28/12 12:06	104-51-8	
sec-Butylbenzene	ND	ug/L	1.0	1		12/28/12 12:06	135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	1		12/28/12 12:06	98-06-6	
Carbon tetrachloride	ND	ug/L	1.0	1		12/28/12 12:06	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		12/28/12 12:06	108-90-7	
Chloroethane	ND	ug/L	1.0	1		12/28/12 12:06	75-00-3	
2-Chloroethylvinyl ether	ND	ug/L	10.0	1		12/28/12 12:06	110-75-8	M1
Chloroform	ND	ug/L	1.0	1		12/28/12 12:06	67-66-3	
Chloromethane	ND	ug/L	4.0	1		12/28/12 12:06	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		12/28/12 12:06	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		12/28/12 12:06	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	4.0	1		12/28/12 12:06	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		12/28/12 12:06	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		12/28/12 12:06	106-93-4	
Dibromomethane	ND	ug/L	4.0	1		12/28/12 12:06	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		12/28/12 12:06	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		12/28/12 12:06	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		12/28/12 12:06	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		12/28/12 12:06	75-71-8	L2
1,1-Dichloroethane	ND	ug/L	1.0	1		12/28/12 12:06	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		12/28/12 12:06	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		12/28/12 12:06	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		12/28/12 12:06	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		12/28/12 12:06	156-60-5	
Dichlorofluoromethane	ND	ug/L	1.0	1		12/28/12 12:06	75-43-4	
1,2-Dichloropropane	ND	ug/L	4.0	1		12/28/12 12:06	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		12/28/12 12:06	142-28-9	
2,2-Dichloropropane	ND	ug/L	4.0	1		12/28/12 12:06	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		12/28/12 12:06	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	4.0	1		12/28/12 12:06	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	4.0	1		12/28/12 12:06	10061-02-6	
Diethyl ether (Ethyl ether)	ND	ug/L	4.0	1		12/28/12 12:06	60-29-7	
Ethylbenzene	ND	ug/L	1.0	1		12/28/12 12:06	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	5.0	1		12/28/12 12:06	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		12/28/12 12:06	98-82-8	
p-Isopropyltoluene	ND	ug/L	1.0	1		12/28/12 12:06	99-87-6	
Methylene Chloride	ND	ug/L	4.0	1		12/28/12 12:06	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	4.0	1		12/28/12 12:06	108-10-1	

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ANALYTICAL RESULTS

Project: City of Rochester
Pace Project No.: 10216276

Sample: AS Influent **Lab ID: 10216276001** Collected: 12/21/12 12:10 Received: 12/26/12 11:25 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
624 MSV	Analytical Method: EPA 624							
Methyl-tert-butyl ether	ND	ug/L	1.0	1		12/28/12 12:06	1634-04-4	
Naphthalene	ND	ug/L	4.0	1		12/28/12 12:06	91-20-3	
n-Propylbenzene	ND	ug/L	1.0	1		12/28/12 12:06	103-65-1	
Styrene	ND	ug/L	1.0	1		12/28/12 12:06	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		12/28/12 12:06	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		12/28/12 12:06	79-34-5	
Tetrachloroethene	**71.7**	ug/L	1.0	1		12/28/12 12:06	127-18-4	
Tetrahydrofuran	**15.3**	ug/L	10.0	1		12/28/12 12:06	109-99-9	
Toluene	ND	ug/L	1.0	1		12/28/12 12:06	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		12/28/12 12:06	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		12/28/12 12:06	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		12/28/12 12:06	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		12/28/12 12:06	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		12/28/12 12:06	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		12/28/12 12:06	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	4.0	1		12/28/12 12:06	96-18-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/L	1.0	1		12/28/12 12:06	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1		12/28/12 12:06	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1		12/28/12 12:06	108-67-8	
Vinyl chloride	ND	ug/L	0.40	1		12/28/12 12:06	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		12/28/12 12:06	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		12/28/12 12:06	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		12/28/12 12:06	95-47-6	
Surrogates								
Dibromofluoromethane (S)	101	%	75-125	1		12/28/12 12:06	1868-53-7	
1,2-Dichloroethane-d4 (S)	99	%	75-125	1		12/28/12 12:06	17060-07-0	
Toluene-d8 (S)	98	%	75-125	1		12/28/12 12:06	2037-26-5	
4-Bromofluorobenzene (S)	99	%	75-125	1		12/28/12 12:06	460-00-4	

Sample: AS Effluent **Lab ID: 10216276002** Collected: 12/21/12 12:12 Received: 12/26/12 11:25 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
624 MSV	Analytical Method: EPA 624							
Acetone	ND	ug/L	25.0	1		12/28/12 12:21	67-64-1	
Allyl chloride	ND	ug/L	4.0	1		12/28/12 12:21	107-05-1	
Benzene	ND	ug/L	1.0	1		12/28/12 12:21	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		12/28/12 12:21	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		12/28/12 12:21	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		12/28/12 12:21	75-27-4	
Bromoform	ND	ug/L	4.0	1		12/28/12 12:21	75-25-2	
Bromomethane	ND	ug/L	4.0	1		12/28/12 12:21	74-83-9	
2-Butanone (MEK)	**7.4**	ug/L	4.0	1		12/28/12 12:21	78-93-3	
n-Butylbenzene	ND	ug/L	1.0	1		12/28/12 12:21	104-51-8	
sec-Butylbenzene	ND	ug/L	1.0	1		12/28/12 12:21	135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	1		12/28/12 12:21	98-06-6	

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ANALYTICAL RESULTS

Project: City of Rochester
Pace Project No.: 10216276

Sample: AS Effluent **Lab ID: 10216276002** Collected: 12/21/12 12:12 Received: 12/26/12 11:25 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
624 MSV	Analytical Method: EPA 624							
Carbon tetrachloride	ND	ug/L	1.0	1		12/28/12 12:21	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		12/28/12 12:21	108-90-7	
Chloroethane	ND	ug/L	1.0	1		12/28/12 12:21	75-00-3	
2-Chloroethylvinyl ether	ND	ug/L	10.0	1		12/28/12 12:21	110-75-8	
Chloroform	ND	ug/L	1.0	1		12/28/12 12:21	67-66-3	
Chloromethane	ND	ug/L	4.0	1		12/28/12 12:21	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		12/28/12 12:21	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		12/28/12 12:21	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	4.0	1		12/28/12 12:21	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		12/28/12 12:21	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		12/28/12 12:21	106-93-4	
Dibromomethane	ND	ug/L	4.0	1		12/28/12 12:21	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		12/28/12 12:21	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		12/28/12 12:21	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		12/28/12 12:21	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		12/28/12 12:21	75-71-8	L2
1,1-Dichloroethane	ND	ug/L	1.0	1		12/28/12 12:21	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		12/28/12 12:21	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		12/28/12 12:21	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		12/28/12 12:21	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		12/28/12 12:21	156-60-5	
Dichlorofluoromethane	ND	ug/L	1.0	1		12/28/12 12:21	75-43-4	
1,2-Dichloropropane	ND	ug/L	4.0	1		12/28/12 12:21	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		12/28/12 12:21	142-28-9	
2,2-Dichloropropane	ND	ug/L	4.0	1		12/28/12 12:21	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		12/28/12 12:21	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	4.0	1		12/28/12 12:21	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	4.0	1		12/28/12 12:21	10061-02-6	
Diethyl ether (Ethyl ether)	ND	ug/L	4.0	1		12/28/12 12:21	60-29-7	
Ethylbenzene	ND	ug/L	1.0	1		12/28/12 12:21	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	5.0	1		12/28/12 12:21	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		12/28/12 12:21	98-82-8	
p-Isopropyltoluene	ND	ug/L	1.0	1		12/28/12 12:21	99-87-6	
Methylene Chloride	ND	ug/L	4.0	1		12/28/12 12:21	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	4.0	1		12/28/12 12:21	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		12/28/12 12:21	1634-04-4	
Naphthalene	ND	ug/L	4.0	1		12/28/12 12:21	91-20-3	
n-Propylbenzene	ND	ug/L	1.0	1		12/28/12 12:21	103-65-1	
Styrene	ND	ug/L	1.0	1		12/28/12 12:21	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		12/28/12 12:21	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		12/28/12 12:21	79-34-5	
Tetrachloroethene	**7.5**	ug/L	1.0	1		12/28/12 12:21	127-18-4	
Tetrahydrofuran	ND	ug/L	10.0	1		12/28/12 12:21	109-99-9	
Toluene	ND	ug/L	1.0	1		12/28/12 12:21	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		12/28/12 12:21	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		12/28/12 12:21	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		12/28/12 12:21	71-55-6	

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ANALYTICAL RESULTS

Project: City of Rochester
Pace Project No.: 10216276

Sample: AS Effluent **Lab ID: 10216276002** Collected: 12/21/12 12:12 Received: 12/26/12 11:25 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
624 MSV	Analytical Method: EPA 624							
1,1,2-Trichloroethane	ND	ug/L	1.0	1		12/28/12 12:21	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		12/28/12 12:21	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		12/28/12 12:21	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	4.0	1		12/28/12 12:21	96-18-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/L	1.0	1		12/28/12 12:21	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1		12/28/12 12:21	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1		12/28/12 12:21	108-67-8	
Vinyl chloride	ND	ug/L	0.40	1		12/28/12 12:21	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		12/28/12 12:21	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		12/28/12 12:21	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		12/28/12 12:21	95-47-6	
Surrogates								
Dibromofluoromethane (S)	103	%	75-125	1		12/28/12 12:21	1868-53-7	
1,2-Dichloroethane-d4 (S)	101	%	75-125	1		12/28/12 12:21	17060-07-0	
Toluene-d8 (S)	97	%	75-125	1		12/28/12 12:21	2037-26-5	
4-Bromofluorobenzene (S)	101	%	75-125	1		12/28/12 12:21	460-00-4	

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QUALITY CONTROL DATA

Project: City of Rochester
Pace Project No.: 10216276

QC Batch: MSV/22561
QC Batch Method: EPA 624
Analysis Method: EPA 624
Analysis Description: 624 MSV
Associated Lab Samples: 10216276001, 10216276002

METHOD BLANK: 1357849
Matrix: Water
Associated Lab Samples: 10216276001, 10216276002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	1.0	12/28/12 11:51	
1,1,1-Trichloroethane	ug/L	ND	1.0	12/28/12 11:51	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	12/28/12 11:51	
1,1,2-Trichloroethane	ug/L	ND	1.0	12/28/12 11:51	
1,1,2-Trichlorotrifluoroethane	ug/L	ND	1.0	12/28/12 11:51	
1,1-Dichloroethane	ug/L	ND	1.0	12/28/12 11:51	
1,1-Dichloroethene	ug/L	ND	1.0	12/28/12 11:51	
1,1-Dichloropropene	ug/L	ND	1.0	12/28/12 11:51	
1,2,3-Trichlorobenzene	ug/L	ND	1.0	12/28/12 11:51	
1,2,3-Trichloropropane	ug/L	ND	4.0	12/28/12 11:51	
1,2,4-Trichlorobenzene	ug/L	ND	1.0	12/28/12 11:51	
1,2,4-Trimethylbenzene	ug/L	ND	1.0	12/28/12 11:51	
1,2-Dibromo-3-chloropropane	ug/L	ND	4.0	12/28/12 11:51	
1,2-Dibromoethane (EDB)	ug/L	ND	1.0	12/28/12 11:51	
1,2-Dichlorobenzene	ug/L	ND	1.0	12/28/12 11:51	
1,2-Dichloroethane	ug/L	ND	1.0	12/28/12 11:51	
1,2-Dichloropropane	ug/L	ND	4.0	12/28/12 11:51	
1,3,5-Trimethylbenzene	ug/L	ND	1.0	12/28/12 11:51	
1,3-Dichlorobenzene	ug/L	ND	1.0	12/28/12 11:51	
1,3-Dichloropropane	ug/L	ND	1.0	12/28/12 11:51	
1,4-Dichlorobenzene	ug/L	ND	1.0	12/28/12 11:51	
2,2-Dichloropropane	ug/L	ND	4.0	12/28/12 11:51	
2-Butanone (MEK)	ug/L	ND	4.0	12/28/12 11:51	
2-Chloroethylvinyl ether	ug/L	ND	10.0	12/28/12 11:51	
2-Chlorotoluene	ug/L	ND	1.0	12/28/12 11:51	
4-Chlorotoluene	ug/L	ND	1.0	12/28/12 11:51	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	4.0	12/28/12 11:51	
Acetone	ug/L	ND	25.0	12/28/12 11:51	
Allyl chloride	ug/L	ND	4.0	12/28/12 11:51	
Benzene	ug/L	ND	1.0	12/28/12 11:51	
Bromobenzene	ug/L	ND	1.0	12/28/12 11:51	
Bromochloromethane	ug/L	ND	1.0	12/28/12 11:51	
Bromodichloromethane	ug/L	ND	1.0	12/28/12 11:51	
Bromoform	ug/L	ND	4.0	12/28/12 11:51	
Bromomethane	ug/L	ND	4.0	12/28/12 11:51	
Carbon tetrachloride	ug/L	ND	1.0	12/28/12 11:51	
Chlorobenzene	ug/L	ND	1.0	12/28/12 11:51	
Chloroethane	ug/L	ND	1.0	12/28/12 11:51	
Chloroform	ug/L	ND	1.0	12/28/12 11:51	
Chloromethane	ug/L	ND	4.0	12/28/12 11:51	
cis-1,2-Dichloroethene	ug/L	ND	1.0	12/28/12 11:51	
cis-1,3-Dichloropropene	ug/L	ND	4.0	12/28/12 11:51	
Dibromochloromethane	ug/L	ND	1.0	12/28/12 11:51	

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QUALITY CONTROL DATA

Project: City of Rochester
Pace Project No.: 10216276

METHOD BLANK: 1357849 Matrix: Water

Associated Lab Samples: 10216276001, 10216276002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Dibromomethane	ug/L	ND	4.0	12/28/12 11:51	
Dichlorodifluoromethane	ug/L	ND	1.0	12/28/12 11:51	
Dichlorofluoromethane	ug/L	ND	1.0	12/28/12 11:51	
Diethyl ether (Ethyl ether)	ug/L	ND	4.0	12/28/12 11:51	
Ethylbenzene	ug/L	ND	1.0	12/28/12 11:51	
Hexachloro-1,3-butadiene	ug/L	ND	5.0	12/28/12 11:51	
Isopropylbenzene (Cumene)	ug/L	ND	1.0	12/28/12 11:51	
m&p-Xylene	ug/L	ND	2.0	12/28/12 11:51	
Methyl-tert-butyl ether	ug/L	ND	1.0	12/28/12 11:51	
Methylene Chloride	ug/L	ND	4.0	12/28/12 11:51	
n-Butylbenzene	ug/L	ND	1.0	12/28/12 11:51	
n-Propylbenzene	ug/L	ND	1.0	12/28/12 11:51	
Naphthalene	ug/L	ND	4.0	12/28/12 11:51	
o-Xylene	ug/L	ND	1.0	12/28/12 11:51	
p-Isopropyltoluene	ug/L	ND	1.0	12/28/12 11:51	
sec-Butylbenzene	ug/L	ND	1.0	12/28/12 11:51	
Styrene	ug/L	ND	1.0	12/28/12 11:51	
tert-Butylbenzene	ug/L	ND	1.0	12/28/12 11:51	
Tetrachloroethene	ug/L	ND	1.0	12/28/12 11:51	
Tetrahydrofuran	ug/L	ND	10.0	12/28/12 11:51	
Toluene	ug/L	ND	1.0	12/28/12 11:51	
trans-1,2-Dichloroethene	ug/L	ND	1.0	12/28/12 11:51	
trans-1,3-Dichloropropene	ug/L	ND	4.0	12/28/12 11:51	
Trichloroethene	ug/L	ND	1.0	12/28/12 11:51	
Trichlorofluoromethane	ug/L	ND	1.0	12/28/12 11:51	
Vinyl chloride	ug/L	ND	0.40	12/28/12 11:51	
Xylene (Total)	ug/L	ND	3.0	12/28/12 11:51	
1,2-Dichloroethane-d4 (S)	%	99	75-125	12/28/12 11:51	
4-Bromofluorobenzene (S)	%	99	75-125	12/28/12 11:51	
Dibromofluoromethane (S)	%	103	75-125	12/28/12 11:51	
Toluene-d8 (S)	%	96	75-125	12/28/12 11:51	

LABORATORY CONTROL SAMPLE: 1357850

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	43.9	88	75-125	
1,1,1-Trichloroethane	ug/L	50	47.2	94	75-129	
1,1,2,2-Tetrachloroethane	ug/L	50	43.8	88	69-126	
1,1,2-Trichloroethane	ug/L	50	43.8	88	75-125	
1,1,2-Trichlorotrifluoroethane	ug/L	50	40.2	80	70-127	
1,1-Dichloroethane	ug/L	50	47.0	94	75-128	
1,1-Dichloroethene	ug/L	50	45.5	91	72-130	
1,1-Dichloropropene	ug/L	50	46.5	93	75-130	
1,2,3-Trichlorobenzene	ug/L	50	40.1	80	75-125	
1,2,3-Trichloropropane	ug/L	50	43.8	88	75-125	

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QUALITY CONTROL DATA

Project: City of Rochester
Pace Project No.: 10216276

LABORATORY CONTROL SAMPLE: 1357850

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,4-Trichlorobenzene	ug/L	50	42.8	86	75-126	
1,2,4-Trimethylbenzene	ug/L	50	42.6	85	75-125	
1,2-Dibromo-3-chloropropane	ug/L	50	42.9	86	72-125	
1,2-Dibromoethane (EDB)	ug/L	50	44.0	88	75-125	
1,2-Dichlorobenzene	ug/L	50	42.3	85	75-125	
1,2-Dichloroethane	ug/L	50	44.5	89	75-125	
1,2-Dichloropropane	ug/L	50	44.0	88	75-125	
1,3,5-Trimethylbenzene	ug/L	50	43.0	86	75-125	
1,3-Dichlorobenzene	ug/L	50	41.9	84	75-125	
1,3-Dichloropropane	ug/L	50	43.8	88	75-125	
1,4-Dichlorobenzene	ug/L	50	42.3	85	75-125	
2,2-Dichloropropane	ug/L	50	49.1	98	75-133	
2-Butanone (MEK)	ug/L	50	48.9	98	62-132	
2-Chloroethylvinyl ether	ug/L	125	125	100	75-125	
2-Chlorotoluene	ug/L	50	41.8	84	74-126	
4-Chlorotoluene	ug/L	50	42.4	85	75-126	
4-Methyl-2-pentanone (MIBK)	ug/L	50	45.4	91	73-125	
Acetone	ug/L	125	121	96	35-150	
Allyl chloride	ug/L	50	48.4	97	71-139	
Benzene	ug/L	50	45.6	91	74-126	
Bromobenzene	ug/L	50	42.3	85	75-125	
Bromochloromethane	ug/L	50	48.3	97	75-125	
Bromodichloromethane	ug/L	50	45.1	90	75-125	
Bromoform	ug/L	50	46.4	93	75-126	
Bromomethane	ug/L	50	49.2	98	59-146	
Carbon tetrachloride	ug/L	50	47.5	95	72-133	
Chlorobenzene	ug/L	50	41.8	84	75-125	
Chloroethane	ug/L	50	44.1	88	73-138	
Chloroform	ug/L	50	45.8	92	75-125	
Chloromethane	ug/L	50	45.3	91	68-129	
cis-1,2-Dichloroethene	ug/L	50	46.0	92	75-125	
cis-1,3-Dichloropropene	ug/L	50	46.6	93	75-125	
Dibromochloromethane	ug/L	50	45.4	91	75-125	
Dibromomethane	ug/L	50	44.7	89	75-125	
Dichlorodifluoromethane	ug/L	50	36.7	73	75-150	L0
Dichlorofluoromethane	ug/L	50	45.6	91	75-128	
Diethyl ether (Ethyl ether)	ug/L	50	45.6	91	75-125	
Ethylbenzene	ug/L	50	41.8	84	75-125	
Hexachloro-1,3-butadiene	ug/L	25	23.4	94	61-133	
Isopropylbenzene (Cumene)	ug/L	50	42.7	85	75-125	
m&p-Xylene	ug/L	100	85.9	86	75-125	
Methyl-tert-butyl ether	ug/L	50	47.5	95	75-125	
Methylene Chloride	ug/L	50	43.3	87	75-125	
n-Butylbenzene	ug/L	50	43.4	87	72-130	
n-Propylbenzene	ug/L	50	42.9	86	74-129	
Naphthalene	ug/L	50	40.5	81	75-125	
o-Xylene	ug/L	50	42.5	85	75-125	
p-Isopropyltoluene	ug/L	50	44.0	88	73-130	

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QUALITY CONTROL DATA

Project: City of Rochester
Pace Project No.: 10216276

LABORATORY CONTROL SAMPLE: 1357850

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
sec-Butylbenzene	ug/L	50	43.7	87	71-131	
Styrene	ug/L	50	43.8	88	75-125	
tert-Butylbenzene	ug/L	50	43.1	86	73-129	
Tetrachloroethene	ug/L	50	42.2	84	74-127	
Tetrahydrofuran	ug/L	500	470	94	71-127	
Toluene	ug/L	50	42.1	84	75-125	
trans-1,2-Dichloroethene	ug/L	50	46.7	93	74-127	
trans-1,3-Dichloropropene	ug/L	50	45.8	92	75-125	
Trichloroethene	ug/L	50	44.3	89	75-125	
Trichlorofluoromethane	ug/L	50	43.5	87	75-150	
Vinyl chloride	ug/L	50	46.1	92	75-132	
Xylene (Total)	ug/L	150	128	86	75-125	
1,2-Dichloroethane-d4 (S)	%			100	75-125	
4-Bromofluorobenzene (S)	%			102	75-125	
Dibromofluoromethane (S)	%			104	75-125	
Toluene-d8 (S)	%			98	75-125	

MATRIX SPIKE SAMPLE: 1357851

Parameter	Units	10216276001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	50	48.0	96	75-126	
1,1,1-Trichloroethane	ug/L	ND	50	53.5	107	75-141	
1,1,2,2-Tetrachloroethane	ug/L	ND	50	45.5	91	68-129	
1,1,2-Trichloroethane	ug/L	ND	50	46.8	94	75-125	
1,1,2-Trichlorotrifluoroethane	ug/L	ND	50	65.3	129	75-150	
1,1-Dichloroethane	ug/L	ND	50	52.2	104	75-139	
1,1-Dichloroethene	ug/L	ND	50	55.0	110	75-147	
1,1-Dichloropropene	ug/L	ND	50	53.7	107	75-150	
1,2,3-Trichlorobenzene	ug/L	ND	50	42.6	85	75-125	
1,2,3-Trichloropropane	ug/L	ND	50	46.2	92	71-125	
1,2,4-Trichlorobenzene	ug/L	ND	50	46.4	93	75-127	
1,2,4-Trimethylbenzene	ug/L	ND	50	46.5	93	74-133	
1,2-Dibromo-3-chloropropane	ug/L	ND	50	44.2	88	69-125	
1,2-Dibromoethane (EDB)	ug/L	ND	50	47.4	95	75-125	
1,2-Dichlorobenzene	ug/L	ND	50	45.5	91	75-125	
1,2-Dichloroethane	ug/L	ND	50	48.6	97	75-130	
1,2-Dichloropropane	ug/L	ND	50	48.6	97	75-129	
1,3,5-Trimethylbenzene	ug/L	ND	50	46.7	93	72-135	
1,3-Dichlorobenzene	ug/L	ND	50	45.2	90	75-125	
1,3-Dichloropropane	ug/L	ND	50	47.1	94	75-125	
1,4-Dichlorobenzene	ug/L	ND	50	45.9	92	75-125	
2,2-Dichloropropane	ug/L	ND	50	55.0	110	75-150	
2-Butanone (MEK)	ug/L	4.5	50	51.6	94	56-126	
2-Chloroethylvinyl ether	ug/L	ND	125	23.1	18	30-125	M1
2-Chlorotoluene	ug/L	ND	50	44.8	90	75-130	
4-Chlorotoluene	ug/L	ND	50	46.0	92	75-127	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	50	47.5	95	69-128	

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QUALITY CONTROL DATA

Project: City of Rochester
Pace Project No.: 10216276

MATRIX SPIKE SAMPLE: 1357851

Parameter	Units	10216276001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Acetone	ug/L	ND	125	133	99	32-129	
Allyl chloride	ug/L	ND	50	54.8	110	61-150	
Benzene	ug/L	ND	50	50.3	101	75-135	
Bromobenzene	ug/L	ND	50	45.8	92	75-125	
Bromochloromethane	ug/L	ND	50	53.2	106	75-128	
Bromodichloromethane	ug/L	ND	50	50.0	100	75-127	
Bromoform	ug/L	ND	50	48.9	98	76-125	
Bromomethane	ug/L	ND	50	58.2	116	64-150	
Carbon tetrachloride	ug/L	ND	50	55.5	111	75-148	
Chlorobenzene	ug/L	ND	50	46.6	93	75-125	
Chloroethane	ug/L	ND	50	51.5	103	75-146	
Chloroform	ug/L	ND	50	51.4	103	75-131	
Chloromethane	ug/L	ND	50	53.0	106	73-141	
cis-1,2-Dichloroethene	ug/L	ND	50	51.2	102	75-136	
cis-1,3-Dichloropropene	ug/L	ND	50	51.1	102	75-130	
Dibromochloromethane	ug/L	ND	50	49.2	98	75-125	
Dibromomethane	ug/L	ND	50	48.9	98	75-125	
Dichlorodifluoromethane	ug/L	ND	50	61.8	124	75-150	
Dichlorofluoromethane	ug/L	ND	50	52.0	104	75-140	
Diethyl ether (Ethyl ether)	ug/L	ND	50	51.5	103	75-129	
Ethylbenzene	ug/L	ND	50	46.1	92	75-129	
Hexachloro-1,3-butadiene	ug/L	ND	25	26.6	106	72-139	
Isopropylbenzene (Cumene)	ug/L	ND	50	47.2	94	75-131	
m&p-Xylene	ug/L	ND	100	94.3	94	75-129	
Methyl-tert-butyl ether	ug/L	ND	50	51.1	102	75-131	
Methylene Chloride	ug/L	ND	50	48.2	96	74-125	
n-Butylbenzene	ug/L	ND	50	48.8	98	75-138	
n-Propylbenzene	ug/L	ND	50	46.7	93	75-134	
Naphthalene	ug/L	ND	50	42.6	85	75-125	
o-Xylene	ug/L	ND	50	46.6	93	75-128	
p-Isopropyltoluene	ug/L	ND	50	47.8	96	75-136	
sec-Butylbenzene	ug/L	ND	50	47.9	96	75-135	
Styrene	ug/L	ND	50	48.1	96	59-144	
tert-Butylbenzene	ug/L	ND	50	46.9	94	75-133	
Tetrachloroethene	ug/L	71.7	50	112	81	75-136	
Tetrahydrofuran	ug/L	15.3	500	495	96	64-134	
Toluene	ug/L	ND	50	46.7	93	75-127	
trans-1,2-Dichloroethene	ug/L	ND	50	53.9	108	75-142	
trans-1,3-Dichloropropene	ug/L	ND	50	49.7	99	74-129	
Trichloroethene	ug/L	ND	50	50.4	101	75-136	
Trichlorofluoromethane	ug/L	ND	50	58.2	116	75-150	
Vinyl chloride	ug/L	ND	50	55.8	112	75-150	
Xylene (Total)	ug/L	ND	150	141	94	75-128	
1,2-Dichloroethane-d4 (S)	%				98	75-125	
4-Bromofluorobenzene (S)	%				100	75-125	
Dibromofluoromethane (S)	%				102	75-125	
Toluene-d8 (S)	%				97	75-125	

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QUALITY CONTROL DATA

Project: City of Rochester
Pace Project No.: 10216276

SAMPLE DUPLICATE: 1357852

Parameter	Units	10216276002 Result	Dup Result	RPD	Max RPD	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	ND		30	
1,1,1-Trichloroethane	ug/L	ND	ND		30	
1,1,2,2-Tetrachloroethane	ug/L	ND	ND		30	
1,1,2-Trichloroethane	ug/L	ND	ND		30	
1,1,2-Trichlorotrifluoroethane	ug/L	ND	.57J		30	
1,1-Dichloroethane	ug/L	ND	ND		30	
1,1-Dichloroethene	ug/L	ND	ND		30	
1,1-Dichloropropene	ug/L	ND	ND		30	
1,2,3-Trichlorobenzene	ug/L	ND	ND		30	
1,2,3-Trichloropropane	ug/L	ND	ND		30	
1,2,4-Trichlorobenzene	ug/L	ND	ND		30	
1,2,4-Trimethylbenzene	ug/L	ND	ND		30	
1,2-Dibromo-3-chloropropane	ug/L	ND	ND		30	
1,2-Dibromoethane (EDB)	ug/L	ND	ND		30	
1,2-Dichlorobenzene	ug/L	ND	ND		30	
1,2-Dichloroethane	ug/L	ND	ND		30	
1,2-Dichloropropane	ug/L	ND	ND		30	
1,3,5-Trimethylbenzene	ug/L	ND	ND		30	
1,3-Dichlorobenzene	ug/L	ND	ND		30	
1,3-Dichloropropane	ug/L	ND	ND		30	
1,4-Dichlorobenzene	ug/L	ND	ND		30	
2,2-Dichloropropane	ug/L	ND	ND		30	
2-Butanone (MEK)	ug/L	7.4	8.1	10	30	
2-Chloroethylvinyl ether	ug/L	ND	ND		30	
2-Chlorotoluene	ug/L	ND	ND		30	
4-Chlorotoluene	ug/L	ND	ND		30	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	ND		30	
Acetone	ug/L	ND	16.5J		30	
Allyl chloride	ug/L	ND	ND		30	
Benzene	ug/L	ND	ND		30	
Bromobenzene	ug/L	ND	ND		30	
Bromochloromethane	ug/L	ND	ND		30	
Bromodichloromethane	ug/L	ND	ND		30	
Bromoform	ug/L	ND	ND		30	
Bromomethane	ug/L	ND	ND		30	
Carbon tetrachloride	ug/L	ND	ND		30	
Chlorobenzene	ug/L	ND	ND		30	
Chloroethane	ug/L	ND	ND		30	
Chloroform	ug/L	ND	ND		30	
Chloromethane	ug/L	ND	ND		30	
cis-1,2-Dichloroethene	ug/L	ND	ND		30	
cis-1,3-Dichloropropene	ug/L	ND	ND		30	
Dibromochloromethane	ug/L	ND	ND		30	
Dibromomethane	ug/L	ND	ND		30	
Dichlorodifluoromethane	ug/L	ND	ND		30	
Dichlorofluoromethane	ug/L	ND	ND		30	
Diethyl ether (Ethyl ether)	ug/L	ND	ND		30	
Ethylbenzene	ug/L	ND	ND		30	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: City of Rochester
Pace Project No.: 10216276

SAMPLE DUPLICATE: 1357852

Parameter	Units	10216276002 Result	Dup Result	RPD	Max RPD	Qualifiers
Hexachloro-1,3-butadiene	ug/L	ND	ND		30	
Isopropylbenzene (Cumene)	ug/L	ND	ND		30	
m&p-Xylene	ug/L	ND	ND		30	
Methyl-tert-butyl ether	ug/L	ND	ND		30	
Methylene Chloride	ug/L	ND	ND		30	
n-Butylbenzene	ug/L	ND	ND		30	
n-Propylbenzene	ug/L	ND	ND		30	
Naphthalene	ug/L	ND	.096J		30	
o-Xylene	ug/L	ND	ND		30	
p-Isopropyltoluene	ug/L	ND	ND		30	
sec-Butylbenzene	ug/L	ND	ND		30	
Styrene	ug/L	ND	ND		30	
tert-Butylbenzene	ug/L	ND	ND		30	
Tetrachloroethene	ug/L	7.5	9.0	18	30	
Tetrahydrofuran	ug/L	ND	ND		30	
Toluene	ug/L	ND	ND		30	
trans-1,2-Dichloroethene	ug/L	ND	ND		30	
trans-1,3-Dichloropropene	ug/L	ND	ND		30	
Trichloroethene	ug/L	ND	ND		30	
Trichlorofluoromethane	ug/L	ND	ND		30	
Vinyl chloride	ug/L	ND	ND		30	
Xylene (Total)	ug/L	ND	ND		30	
1,2-Dichloroethane-d4 (S)	%	101	102	1		
4-Bromofluorobenzene (S)	%	101	101	.5		
Dibromofluoromethane (S)	%	103	105	2		
Toluene-d8 (S)	%	97	96	1		

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QUALIFIERS

Project: City of Rochester
Pace Project No.: 10216276

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PRL - Pace Reporting Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

L0	Analyte recovery in the laboratory control sample (LCS) was outside QC limits.
L2	Analyte recovery in the laboratory control sample (LCS) was below QC limits. Results may be biased low.
M1	Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: City of Rochester
Pace Project No.: 10216276

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10216276001	**AS Influent**	EPA 624	MSV/22561		
10216276002	**AS Effluent**	EPA 624	MSV/22561		

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CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

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10216276

Page: 1 of 1

Section A Required Client Information:	Section B Required Project Information:	Section C Invoice Information:
Company: Landmark Environmental	Report To: Jason Skramstad	Attention: Jason Skramstad
Address: 2042 W. 98th Street	Copy To: Eric Gabrielson	Company Name: Landmark Environmental, LLC
Bloomington, MN 55431		Address: 2042 W. 98th St., Bloomington, MN 55431
Email To: jskramstad@landmarkenv.com	Purchase Order No.:	Pace Quote Reference:
Phone: 952-887-9601, ext 205 Fax: 952-887-9605	Project Name: City of Rochester	Pace Project Manager: Carolynne Trout
Requested Due Date/TAT: Normal	Project Number: CRC	Pace Profile #:

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER

☐ UST ☐ RCRA ☐ THER_____

SITE LOCATION ☐ GA ☐ _ ☐ N ☐ ☐ ☐ OH ☐ SC ☐ VI ☐ THER____

Filtered (Y/N)

Requested Ana

Pace Project Number Lab I.D.

Section D Required Client Information

Valid Matrix Codes

MATRIX	CODE
DRINKING WATER	DW
WATER	WT
WASTE WATER	WW
PRODUCT	P
SOIL/SOLID	SL
OIL	OL WP
WIPE	AR
AIR	OT
OTHER	TS
TISSUE	

ITEM #	SAMPLE ID (One Character per box. (A-Z, 0-9 / ,-) Samples IDs MUST BE UNIQUE)	MATRIX CODE	SAMPLE TYPE G=GRAB C=COMP	COLLECTED COMPOSITE START DATE	COLLECTED COMPOSITE START TIME	COLLECTED COMPOSITE END/GRAB DATE	COLLECTED COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	#OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	EPA 624	check preservation	samples were effervescing
1	AS-Influent	W	G	12/21/12	12:10				3									X		
2	AS-Effluent	W	G	12/21/12	12:12				3									X		
3																				
4																				
5																				
6																				
7																				
8																				
5																				
6																				
7																				
8																				

Additional Comments:

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
[signature] /Landmark	12/26	(illegible)	[signature] Pace	12/26/12	1125

SAMPLE CONDITIONS

Temp in °C	Received on Ice	Custody Sealed Cooler	Samples Intact
22	(Y) N	(Y) N	(Y) N
	Y/N	Y/N	Y/N
	Y/N	Y/N	Y/N
	Y/N	Y/N	Y/N

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Eric Gabrielson

SIGNATURE of SAMPLER: [signature] DATE Signed (MM / DD / YY): 12/21/12

Pace Analytical®	Sample Condition Upon Receipt Form	Page 1 of 1
	Document No.: F-MN-L-213-rev.05	Issuing Authority: Pace Minnesota Quality Office

Sample Condition Upon Receipt

Client Name: landmark

Project #: WO#: 10216276

10216276

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☐ Client ☑ Commercial ☐ Pace ☐ Other: _____

Tracking Number: _____

Custody Seal on Cooler/Box Present? ☐ Yes ☑ No **Seals Intact?** ☐ Yes ☑ No **Optional:** Proj. Due Date: Proj. Name:

Packing Material: ☐ Bubble Wrap ☑ Bubble Bags ☐ None ☐ Other: _____ **Temp Blank?** ☑ Yes ☐ No

Thermometer Used: ☑ 888A912167504 ☐ 80512447 **Type of Ice:** ☑ Wet ☐ Blue ☐ None ☐ Samples on ice, cooling process has begun

Cooler Temp Read (°C): 2.0 **Cooler Temp Corrected (°C):** 2.2 **Biological Tissue Frozen?** ☐ Yes ☐ No

Temp should be above freezing to 6°C

Date and Initials of Person Examining Contents: RSL 12-26-12

Comments:

Chain of Custody Present?	☑ Yes	☐ No	☐ N/A	1.
Chain of Custody Filled Out?	☑ Yes	☐ No	☐ N/A	2.
Chain of Custody Relinquished?	☑ Yes	☐ No	☐ N/A	3.
Sampler Name and/or Signature on COC?	☑ Yes	☐ No	☐ N/A	4.
Samples Arrived within Hold Time?	☑ Yes	☐ No	☐ N/A	5.
Short Hold Time Analysis (<72 hr)?	☐ Yes	☑ No	☐ N/A	6.
Rush Turn Around Time Requested?	☐ Yes	☑ No	☐ N/A	7.
Sufficient Volume?	☑ Yes	☐ No	☐ N/A	8.
Correct Containers Used?	☑ Yes	☐ No	☐ N/A	9.
-Pace Containers Used?	☑ Yes	☐ No	☐ N/A	
Containers Intact?	☑ Yes	☐ No	☐ N/A	10.
Filtered Volume Received for Dissolved Tests?	☐ Yes	☐ No	☑ N/A	11.
Sample Labels Match COC? -Includes Date/Time/ID/Analysis Matrix: WT	☑ Yes	☐ No	☐ N/A	12. Vial ctp. 10-17-12
All containers needing acid/base preservation have been checked? Noncompliances are noted in 13.	☐ Yes	☐ No	☑ N/A	13. ☐ HNO_3 ☐ H_2SO_4 ☐ NaOH ☐ HCl Sample #
All containers needing preservation are found to be in compliance with EPA recommendation? (HNO_3, H_2SO_4, HCl<2; NaOH>12)	☐ Yes	☐ No	☑ N/A	
Exceptions: VOA, Coliform, TOC, Oil and Grease, WI-DRO (water)	☑ Yes	☐ No		Initial when completed: CSL Lot # of added preservative:
Headspace in VOA Vials (>6mm)?	☐ Yes	☑ No	☐ N/A	14.
Trip Blank Present?	☐ Yes	☑ No	☐ N/A	15.
Trip Blank Custody Seals Present?	☐ Yes	☑ No	☐ N/A	
Pace Trip Blank Lot # (if purchased):				

CLIENT NOTIFICATION/RESOLUTION **Field Data Required?** ☐ Yes ☐ No

Person Contacted: _____ Date/Time: _____

Comments/Resolution: _____

Project Manager Review: _____ **Date:** 12/26/12

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e out of hold, incorrect preservative, out of temp, incorrect containers)

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January 02, 2013

Mr. Jason Skramstad
Landmark Environmental
2042 W. 98th. St.
Minneapolis, MN 55431

RE: Project: CRC City of Rochester
Pace Project No.: 10216042

Dear Mr. Skramstad:
Enclosed are the analytical results for sample(s) received by the laboratory on December 20, 2012. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Carolynne Trout

Carolynne Trout

carolynne.trout@pacelabs.com
Project Manager

Enclosures

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CERTIFICATIONS

Project: CRC City of Rochester
Pace Project No.: 10216042

Minnesota Certification IDs
1700 Elm Street SE Suite 200, Minneapolis, MN 55414
A2LA Certification #: 2926.01
Alaska Certification #: UST-078
Alaska Certification #MN00064
Arizona Certification #: AZ-0014
Arkansas Certification #: 88-0680
California Certification #: 01155CA
Colorado Certification #Pace
Connecticut Certification #: PH-0256
EPA Region 8 Certification #: Pace
Florida/NELAP Certification #: E87605
Georgia Certification #: 959
Hawaii Certification #Pace
Idaho Certification #: MN00064
Illinois Certification #: 200011
Kansas Certification #: E-10167
Louisiana Certification #: 03086
Louisiana Certification #: LA080009
Maine Certification #: 2007029
Maryland Certification #: 322
Michigan DEQ Certification #: 9909
Minnesota Certification #: 027-053-137
Mississippi Certification #: Pace
Montana Certification #: MT CERT0092
Nebraska Certification #: Pace
Nevada Certification #: MN_00064
New Jersey Certification #: MN-002
New York Certification #: 11647
North Carolina Certification #: 530
North Dakota Certification #: R-036
North Dakota Certification #: R-036A
Ohio VAP Certification #: CL101
Oklahoma Certification #: 9507
Oregon Certification #: MN200001
Oregon Certification #: MN300001
Pennsylvania Certification #: 68-00563
Puerto Rico Certification
Tennessee Certification #: 02818
Texas Certification #: T104704192
Utah Certification #: MN00064
Virginia/DCLS Certification #: 002521
Virginia/VELAP Certification #: 460163
Washington Certification #: C754
West Virginia Certification #: 382
Wisconsin Certification #: 999407970

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SAMPLE SUMMARY

Project: CRC City of Rochester
Pace Project No.: 10216042

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10216042001	DPE-1	Water	12/19/12 15:20	12/20/12 13:23
10216042002	DPE-2	Water	12/19/12 14:25	12/20/12 13:23
10216042003	DPE-3	Water	12/19/12 15:00	12/20/12 13:23
10216042004	DPE-4	Water	12/19/12 14:40	12/20/12 13:23
10216042005	DPE-5	Water	12/19/12 12:45	12/20/12 13:23
10216042006	DPE-6	Water	12/19/12 10:50	12/20/12 13:23
10216042007	DPE-7	Water	12/19/12 09:20	12/20/12 13:23
10216042008	MW-14	Water	12/19/12 10:00	12/20/12 13:23
10216042009	MW-15	Water	12/19/12 10:20	12/20/12 13:23
10216042010	MW-16	Water	12/19/12 13:15	12/20/12 13:23
10216042011	MW-17	Water	12/19/12 11:40	12/20/12 13:23
10216042012	MW-18	Water	12/19/12 11:20	12/20/12 13:23
10216042013	MW-19	Water	12/19/12 09:00	12/20/12 13:23
10216042014	MW-20	Water	12/19/12 12:10	12/20/12 13:23
10216042015	Trip Blank	Water		12/20/12 13:23

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SAMPLE ANALYTE COUNT

Project: CRC City of Rochester
Pace Project No.: 10216042

Lab ID	Sample ID	Method	Analysts	Analytes Reported
10216042001	DPE-1	EPA 8260	SE	73
10216042002	DPE-2	EPA 8260	SE	73
10216042003	DPE-3	EPA 8260	SE	73
10216042004	DPE-4	EPA 8260	SE	73
10216042005	DPE-5	EPA 8260	SE	73
10216042006	DPE-6	EPA 8260	SE	73
10216042007	DPE-7	EPA 8260	SE	73
10216042008	MW-14	EPA 8260	SE	73
10216042009	MW-15	EPA 8260	SE	73
10216042010	MW-16	EPA 8260	SE	73
10216042011	MW-17	EPA 8260	SE	73
10216042012	MW-18	EPA 8260	SE	73
10216042013	MW-19	EPA 8260	SE	73
10216042014	MW-20	EPA 8260	SE	73
10216042015	Trip Blank	EPA 8260	SE	73

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ANALYTICAL RESULTS

Project: CRC City of Rochester
Pace Project No.: 10216042

Sample: DPE-1 **Lab ID: 10216042001** Collected: 12/19/12 15:20 Received: 12/20/12 13:23 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 VOC	Analytical Method: EPA 8260							
Acetone	ND	ug/L	25.0	1		12/21/12 12:42	67-64-1	
Allyl chloride	ND	ug/L	4.0	1		12/21/12 12:42	107-05-1	
Benzene	ND	ug/L	1.0	1		12/21/12 12:42	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		12/21/12 12:42	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		12/21/12 12:42	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		12/21/12 12:42	75-27-4	
Bromoform	ND	ug/L	4.0	1		12/21/12 12:42	75-25-2	
Bromomethane	ND	ug/L	4.0	1		12/21/12 12:42	74-83-9	
2-Butanone (MEK)	ND	ug/L	4.0	1		12/21/12 12:42	78-93-3	
n-Butylbenzene	ND	ug/L	1.0	1		12/21/12 12:42	104-51-8	
sec-Butylbenzene	ND	ug/L	1.0	1		12/21/12 12:42	135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	1		12/21/12 12:42	98-06-6	
Carbon tetrachloride	ND	ug/L	1.0	1		12/21/12 12:42	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		12/21/12 12:42	108-90-7	
Chloroethane	ND	ug/L	1.0	1		12/21/12 12:42	75-00-3	
Chloroform	ND	ug/L	1.0	1		12/21/12 12:42	67-66-3	
Chloromethane	ND	ug/L	4.0	1		12/21/12 12:42	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		12/21/12 12:42	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		12/21/12 12:42	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	4.0	1		12/21/12 12:42	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		12/21/12 12:42	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		12/21/12 12:42	106-93-4	
Dibromomethane	ND	ug/L	4.0	1		12/21/12 12:42	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		12/21/12 12:42	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		12/21/12 12:42	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		12/21/12 12:42	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		12/21/12 12:42	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		12/21/12 12:42	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		12/21/12 12:42	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		12/21/12 12:42	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		12/21/12 12:42	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		12/21/12 12:42	156-60-5	
Dichlorofluoromethane	ND	ug/L	1.0	1		12/21/12 12:42	75-43-4	
1,2-Dichloropropane	ND	ug/L	4.0	1		12/21/12 12:42	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		12/21/12 12:42	142-28-9	
2,2-Dichloropropane	ND	ug/L	4.0	1		12/21/12 12:42	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		12/21/12 12:42	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	4.0	1		12/21/12 12:42	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	4.0	1		12/21/12 12:42	10061-02-6	
Diethyl ether (Ethyl ether)	ND	ug/L	4.0	1		12/21/12 12:42	60-29-7	
Ethylbenzene	ND	ug/L	1.0	1		12/21/12 12:42	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	5.0	1		12/21/12 12:42	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		12/21/12 12:42	98-82-8	
p-Isopropyltoluene	ND	ug/L	1.0	1		12/21/12 12:42	99-87-6	
Methylene Chloride	ND	ug/L	4.0	1		12/21/12 12:42	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	4.0	1		12/21/12 12:42	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		12/21/12 12:42	1634-04-4	

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ANALYTICAL RESULTS

Project: CRC City of Rochester
Pace Project No.: 10216042

Sample: DPE-1 **Lab ID: 10216042001** Collected: 12/19/12 15:20 Received: 12/20/12 13:23 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 VOC	Analytical Method: EPA 8260							
Naphthalene	ND	ug/L	4.0	1		12/21/12 12:42	91-20-3	
n-Propylbenzene	ND	ug/L	1.0	1		12/21/12 12:42	103-65-1	
Styrene	ND	ug/L	1.0	1		12/21/12 12:42	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		12/21/12 12:42	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		12/21/12 12:42	79-34-5	
Tetrachloroethene	**505**	ug/L	5.0	5		12/21/12 19:22	127-18-4	
Tetrahydrofuran	ND	ug/L	10.0	1		12/21/12 12:42	109-99-9	
Toluene	ND	ug/L	1.0	1		12/21/12 12:42	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		12/21/12 12:42	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		12/21/12 12:42	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		12/21/12 12:42	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		12/21/12 12:42	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		12/21/12 12:42	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		12/21/12 12:42	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	4.0	1		12/21/12 12:42	96-18-4	
1,1,2-Trichlorotrifluoroethane	**3.9**	ug/L	1.0	1		12/21/12 12:42	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1		12/21/12 12:42	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1		12/21/12 12:42	108-67-8	
Vinyl chloride	ND	ug/L	0.40	1		12/21/12 12:42	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		12/21/12 12:42	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		12/21/12 12:42	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		12/21/12 12:42	95-47-6	
Surrogates								
Dibromofluoromethane (S)	102	%	75-125	1		12/21/12 12:42	1868-53-7	
1,2-Dichloroethane-d4 (S)	102	%	75-125	1		12/21/12 12:42	17060-07-0	
Toluene-d8 (S)	99	%	75-125	1		12/21/12 12:42	2037-26-5	
4-Bromofluorobenzene (S)	99	%	75-125	1		12/21/12 12:42	460-00-4	

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ANALYTICAL RESULTS

Project: CRC City of Rochester
Pace Project No.: 10216042

Sample: DPE-2 **Lab ID: 10216042002** Collected: 12/19/12 14:25 Received: 12/20/12 13:23 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 VOC	Analytical Method: EPA 8260							
Acetone	ND	ug/L	25.0	1		12/21/12 12:57	67-64-1	
Allyl chloride	ND	ug/L	4.0	1		12/21/12 12:57	107-05-1	
Benzene	ND	ug/L	1.0	1		12/21/12 12:57	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		12/21/12 12:57	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		12/21/12 12:57	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		12/21/12 12:57	75-27-4	
Bromoform	ND	ug/L	4.0	1		12/21/12 12:57	75-25-2	
Bromomethane	ND	ug/L	4.0	1		12/21/12 12:57	74-83-9	
2-Butanone (MEK)	ND	ug/L	4.0	1		12/21/12 12:57	78-93-3	
n-Butylbenzene	ND	ug/L	1.0	1		12/21/12 12:57	104-51-8	
sec-Butylbenzene	ND	ug/L	1.0	1		12/21/12 12:57	135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	1		12/21/12 12:57	98-06-6	
Carbon tetrachloride	ND	ug/L	1.0	1		12/21/12 12:57	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		12/21/12 12:57	108-90-7	
Chloroethane	ND	ug/L	1.0	1		12/21/12 12:57	75-00-3	
Chloroform	ND	ug/L	1.0	1		12/21/12 12:57	67-66-3	
Chloromethane	ND	ug/L	4.0	1		12/21/12 12:57	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		12/21/12 12:57	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		12/21/12 12:57	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	4.0	1		12/21/12 12:57	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		12/21/12 12:57	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		12/21/12 12:57	106-93-4	
Dibromomethane	ND	ug/L	4.0	1		12/21/12 12:57	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		12/21/12 12:57	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		12/21/12 12:57	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		12/21/12 12:57	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		12/21/12 12:57	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		12/21/12 12:57	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		12/21/12 12:57	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		12/21/12 12:57	75-35-4	
cis-1,2-Dichloroethene	**1.8**	ug/L	1.0	1		12/21/12 12:57	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		12/21/12 12:57	156-60-5	
Dichlorofluoromethane	ND	ug/L	1.0	1		12/21/12 12:57	75-43-4	
1,2-Dichloropropane	ND	ug/L	4.0	1		12/21/12 12:57	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		12/21/12 12:57	142-28-9	
2,2-Dichloropropane	ND	ug/L	4.0	1		12/21/12 12:57	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		12/21/12 12:57	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	4.0	1		12/21/12 12:57	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	4.0	1		12/21/12 12:57	10061-02-6	
Diethyl ether (Ethyl ether)	ND	ug/L	4.0	1		12/21/12 12:57	60-29-7	
Ethylbenzene	ND	ug/L	1.0	1		12/21/12 12:57	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	5.0	1		12/21/12 12:57	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		12/21/12 12:57	98-82-8	
p-Isopropyltoluene	ND	ug/L	1.0	1		12/21/12 12:57	99-87-6	
Methylene Chloride	ND	ug/L	4.0	1		12/21/12 12:57	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	4.0	1		12/21/12 12:57	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		12/21/12 12:57	1634-04-4	

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ANALYTICAL RESULTS

Project: CRC City of Rochester
Pace Project No.: 10216042

Sample: DPE-2 **Lab ID: 10216042002** Collected: 12/19/12 14:25 Received: 12/20/12 13:23 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 VOC	Analytical Method: EPA 8260							
Naphthalene	ND	ug/L	4.0	1		12/21/12 12:57	91-20-3	
n-Propylbenzene	ND	ug/L	1.0	1		12/21/12 12:57	103-65-1	
Styrene	ND	ug/L	1.0	1		12/21/12 12:57	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		12/21/12 12:57	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		12/21/12 12:57	79-34-5	
Tetrachloroethene	**746**	ug/L	10.0	10		12/21/12 19:37	127-18-4	
Tetrahydrofuran	ND	ug/L	10.0	1		12/21/12 12:57	109-99-9	
Toluene	ND	ug/L	1.0	1		12/21/12 12:57	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		12/21/12 12:57	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		12/21/12 12:57	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		12/21/12 12:57	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		12/21/12 12:57	79-00-5	
Trichloroethene	**1.6**	ug/L	1.0	1		12/21/12 12:57	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		12/21/12 12:57	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	4.0	1		12/21/12 12:57	96-18-4	
1,1,2-Trichlorotrifluoroethane	**43.5**	ug/L	1.0	1		12/21/12 12:57	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1		12/21/12 12:57	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1		12/21/12 12:57	108-67-8	
Vinyl chloride	ND	ug/L	0.40	1		12/21/12 12:57	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		12/21/12 12:57	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		12/21/12 12:57	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		12/21/12 12:57	95-47-6	
Surrogates								
Dibromofluoromethane (S)	104	%	75-125	1		12/21/12 12:57	1868-53-7	
1,2-Dichloroethane-d4 (S)	102	%	75-125	1		12/21/12 12:57	17060-07-0	
Toluene-d8 (S)	98	%	75-125	1		12/21/12 12:57	2037-26-5	
4-Bromofluorobenzene (S)	102	%	75-125	1		12/21/12 12:57	460-00-4	

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ANALYTICAL RESULTS

Project: CRC City of Rochester
Pace Project No.: 10216042

Sample: DPE-3 **Lab ID: 10216042003** Collected: 12/19/12 15:00 Received: 12/20/12 13:23 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 VOC	Analytical Method: EPA 8260							
Acetone	ND	ug/L	25.0	1		12/21/12 13:12	67-64-1	
Allyl chloride	ND	ug/L	4.0	1		12/21/12 13:12	107-05-1	
Benzene	ND	ug/L	1.0	1		12/21/12 13:12	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		12/21/12 13:12	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		12/21/12 13:12	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		12/21/12 13:12	75-27-4	
Bromoform	ND	ug/L	4.0	1		12/21/12 13:12	75-25-2	
Bromomethane	ND	ug/L	4.0	1		12/21/12 13:12	74-83-9	
2-Butanone (MEK)	ND	ug/L	4.0	1		12/21/12 13:12	78-93-3	
n-Butylbenzene	ND	ug/L	1.0	1		12/21/12 13:12	104-51-8	
sec-Butylbenzene	ND	ug/L	1.0	1		12/21/12 13:12	135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	1		12/21/12 13:12	98-06-6	
Carbon tetrachloride	ND	ug/L	1.0	1		12/21/12 13:12	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		12/21/12 13:12	108-90-7	
Chloroethane	ND	ug/L	1.0	1		12/21/12 13:12	75-00-3	
Chloroform	**2.6**	ug/L	1.0	1		12/21/12 13:12	67-66-3	
Chloromethane	ND	ug/L	4.0	1		12/21/12 13:12	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		12/21/12 13:12	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		12/21/12 13:12	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	4.0	1		12/21/12 13:12	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		12/21/12 13:12	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		12/21/12 13:12	106-93-4	
Dibromomethane	ND	ug/L	4.0	1		12/21/12 13:12	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		12/21/12 13:12	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		12/21/12 13:12	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		12/21/12 13:12	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		12/21/12 13:12	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		12/21/12 13:12	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		12/21/12 13:12	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		12/21/12 13:12	75-35-4	
cis-1,2-Dichloroethene	**25.0**	ug/L	1.0	1		12/21/12 13:12	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		12/21/12 13:12	156-60-5	
Dichlorofluoromethane	ND	ug/L	1.0	1		12/21/12 13:12	75-43-4	
1,2-Dichloropropane	ND	ug/L	4.0	1		12/21/12 13:12	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		12/21/12 13:12	142-28-9	
2,2-Dichloropropane	ND	ug/L	4.0	1		12/21/12 13:12	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		12/21/12 13:12	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	4.0	1		12/21/12 13:12	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	4.0	1		12/21/12 13:12	10061-02-6	
Diethyl ether (Ethyl ether)	ND	ug/L	4.0	1		12/21/12 13:12	60-29-7	
Ethylbenzene	ND	ug/L	1.0	1		12/21/12 13:12	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	5.0	1		12/21/12 13:12	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		12/21/12 13:12	98-82-8	
p-Isopropyltoluene	ND	ug/L	1.0	1		12/21/12 13:12	99-87-6	
Methylene Chloride	ND	ug/L	4.0	1		12/21/12 13:12	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	4.0	1		12/21/12 13:12	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		12/21/12 13:12	1634-04-4	

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ANALYTICAL RESULTS

Project: CRC City of Rochester
Pace Project No.: 10216042

Sample: DPE-3 **Lab ID: 10216042003** Collected: 12/19/12 15:00 Received: 12/20/12 13:23 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 VOC	Analytical Method: EPA 8260							
Naphthalene	ND	ug/L	4.0	1		12/21/12 13:12	91-20-3	
n-Propylbenzene	ND	ug/L	1.0	1		12/21/12 13:12	103-65-1	
Styrene	ND	ug/L	1.0	1		12/21/12 13:12	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		12/21/12 13:12	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		12/21/12 13:12	79-34-5	
Tetrachloroethene	**5670**	ug/L	50.0	50		12/21/12 20:06	127-18-4	
Tetrahydrofuran	ND	ug/L	10.0	1		12/21/12 13:12	109-99-9	
Toluene	ND	ug/L	1.0	1		12/21/12 13:12	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		12/21/12 13:12	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		12/21/12 13:12	120-82-1	
1,1,1-Trichloroethane	**4.2**	ug/L	1.0	1		12/21/12 13:12	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		12/21/12 13:12	79-00-5	
Trichloroethene	**10.4**	ug/L	1.0	1		12/21/12 13:12	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		12/21/12 13:12	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	4.0	1		12/21/12 13:12	96-18-4	
1,1,2-Trichlorotrifluoroethane	**232**	ug/L	50.0	50		12/21/12 20:06	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1		12/21/12 13:12	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1		12/21/12 13:12	108-67-8	
Vinyl chloride	ND	ug/L	0.40	1		12/21/12 13:12	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		12/21/12 13:12	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		12/21/12 13:12	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		12/21/12 13:12	95-47-6	
Surrogates								
Dibromofluoromethane (S)	104	%	75-125	1		12/21/12 13:12	1868-53-7	
1,2-Dichloroethane-d4 (S)	103	%	75-125	1		12/21/12 13:12	17060-07-0	
Toluene-d8 (S)	96	%	75-125	1		12/21/12 13:12	2037-26-5	
4-Bromofluorobenzene (S)	98	%	75-125	1		12/21/12 13:12	460-00-4	

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ANALYTICAL RESULTS

Project: CRC City of Rochester
Pace Project No.: 10216042

Sample: DPE-4 **Lab ID: 10216042004** Collected: 12/19/12 14:40 Received: 12/20/12 13:23 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 VOC	Analytical Method: EPA 8260							
Acetone	ND	ug/L	25.0	1		12/21/12 13:26	67-64-1	
Allyl chloride	ND	ug/L	4.0	1		12/21/12 13:26	107-05-1	
Benzene	ND	ug/L	1.0	1		12/21/12 13:26	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		12/21/12 13:26	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		12/21/12 13:26	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		12/21/12 13:26	75-27-4	
Bromoform	ND	ug/L	4.0	1		12/21/12 13:26	75-25-2	
Bromomethane	ND	ug/L	4.0	1		12/21/12 13:26	74-83-9	
2-Butanone (MEK)	ND	ug/L	4.0	1		12/21/12 13:26	78-93-3	
n-Butylbenzene	ND	ug/L	1.0	1		12/21/12 13:26	104-51-8	
sec-Butylbenzene	ND	ug/L	1.0	1		12/21/12 13:26	135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	1		12/21/12 13:26	98-06-6	
Carbon tetrachloride	ND	ug/L	1.0	1		12/21/12 13:26	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		12/21/12 13:26	108-90-7	
Chloroethane	ND	ug/L	1.0	1		12/21/12 13:26	75-00-3	
Chloroform	**1.3**	ug/L	1.0	1		12/21/12 13:26	67-66-3	
Chloromethane	ND	ug/L	4.0	1		12/21/12 13:26	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		12/21/12 13:26	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		12/21/12 13:26	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	4.0	1		12/21/12 13:26	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		12/21/12 13:26	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		12/21/12 13:26	106-93-4	
Dibromomethane	ND	ug/L	4.0	1		12/21/12 13:26	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		12/21/12 13:26	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		12/21/12 13:26	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		12/21/12 13:26	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		12/21/12 13:26	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		12/21/12 13:26	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		12/21/12 13:26	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		12/21/12 13:26	75-35-4	
cis-1,2-Dichloroethene	**5.1**	ug/L	1.0	1		12/21/12 13:26	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		12/21/12 13:26	156-60-5	
Dichlorofluoromethane	ND	ug/L	1.0	1		12/21/12 13:26	75-43-4	
1,2-Dichloropropane	ND	ug/L	4.0	1		12/21/12 13:26	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		12/21/12 13:26	142-28-9	
2,2-Dichloropropane	ND	ug/L	4.0	1		12/21/12 13:26	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		12/21/12 13:26	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	4.0	1		12/21/12 13:26	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	4.0	1		12/21/12 13:26	10061-02-6	
Diethyl ether (Ethyl ether)	ND	ug/L	4.0	1		12/21/12 13:26	60-29-7	
Ethylbenzene	ND	ug/L	1.0	1		12/21/12 13:26	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	5.0	1		12/21/12 13:26	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		12/21/12 13:26	98-82-8	
p-Isopropyltoluene	ND	ug/L	1.0	1		12/21/12 13:26	99-87-6	
Methylene Chloride	ND	ug/L	4.0	1		12/21/12 13:26	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	4.0	1		12/21/12 13:26	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		12/21/12 13:26	1634-04-4	

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ANALYTICAL RESULTS

Project: CRC City of Rochester
Pace Project No.: 10216042

Sample: DPE-4 **Lab ID: 10216042004** Collected: 12/19/12 14:40 Received: 12/20/12 13:23 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 VOC	Analytical Method: EPA 8260							
Naphthalene	ND	ug/L	4.0	1		12/21/12 13:26	91-20-3	
n-Propylbenzene	ND	ug/L	1.0	1		12/21/12 13:26	103-65-1	
Styrene	ND	ug/L	1.0	1		12/21/12 13:26	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		12/21/12 13:26	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		12/21/12 13:26	79-34-5	
Tetrachloroethene	**1410**	ug/L	10.0	10		12/21/12 19:51	127-18-4	
Tetrahydrofuran	ND	ug/L	10.0	1		12/21/12 13:26	109-99-9	
Toluene	ND	ug/L	1.0	1		12/21/12 13:26	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		12/21/12 13:26	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		12/21/12 13:26	120-82-1	
1,1,1-Trichloroethane	**1.1**	ug/L	1.0	1		12/21/12 13:26	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		12/21/12 13:26	79-00-5	
Trichloroethene	**2.2**	ug/L	1.0	1		12/21/12 13:26	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		12/21/12 13:26	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	4.0	1		12/21/12 13:26	96-18-4	
1,1,2-Trichlorotrifluoroethane	**141**	ug/L	1.0	1		12/21/12 13:26	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1		12/21/12 13:26	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1		12/21/12 13:26	108-67-8	
Vinyl chloride	ND	ug/L	0.40	1		12/21/12 13:26	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		12/21/12 13:26	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		12/21/12 13:26	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		12/21/12 13:26	95-47-6	
Surrogates								
Dibromofluoromethane (S)	103	%	75-125	1		12/21/12 13:26	1868-53-7	
1,2-Dichloroethane-d4 (S)	102	%	75-125	1		12/21/12 13:26	17060-07-0	
Toluene-d8 (S)	97	%	75-125	1		12/21/12 13:26	2037-26-5	
4-Bromofluorobenzene (S)	100	%	75-125	1		12/21/12 13:26	460-00-4	

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ANALYTICAL RESULTS

Project: CRC City of Rochester
Pace Project No.: 10216042

Sample: DPE-5 **Lab ID: 10216042005** Collected: 12/19/12 12:45 Received: 12/20/12 13:23 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 VOC	Analytical Method: EPA 8260							
Acetone	ND	ug/L	25.0	1		12/21/12 18:23	67-64-1	
Allyl chloride	ND	ug/L	4.0	1		12/21/12 18:23	107-05-1	
Benzene	ND	ug/L	1.0	1		12/21/12 18:23	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		12/21/12 18:23	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		12/21/12 18:23	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		12/21/12 18:23	75-27-4	
Bromoform	ND	ug/L	4.0	1		12/21/12 18:23	75-25-2	
Bromomethane	ND	ug/L	4.0	1		12/21/12 18:23	74-83-9	
2-Butanone (MEK)	ND	ug/L	4.0	1		12/21/12 18:23	78-93-3	
n-Butylbenzene	ND	ug/L	1.0	1		12/21/12 18:23	104-51-8	
sec-Butylbenzene	ND	ug/L	1.0	1		12/21/12 18:23	135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	1		12/21/12 18:23	98-06-6	
Carbon tetrachloride	ND	ug/L	1.0	1		12/21/12 18:23	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		12/21/12 18:23	108-90-7	
Chloroethane	ND	ug/L	1.0	1		12/21/12 18:23	75-00-3	
Chloroform	**1.5**	ug/L	1.0	1		12/21/12 18:23	67-66-3	
Chloromethane	ND	ug/L	4.0	1		12/21/12 18:23	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		12/21/12 18:23	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		12/21/12 18:23	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	4.0	1		12/21/12 18:23	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		12/21/12 18:23	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		12/21/12 18:23	106-93-4	
Dibromomethane	ND	ug/L	4.0	1		12/21/12 18:23	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		12/21/12 18:23	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		12/21/12 18:23	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		12/21/12 18:23	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		12/21/12 18:23	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		12/21/12 18:23	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		12/21/12 18:23	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		12/21/12 18:23	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		12/21/12 18:23	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		12/21/12 18:23	156-60-5	
Dichlorofluoromethane	ND	ug/L	1.0	1		12/21/12 18:23	75-43-4	
1,2-Dichloropropane	ND	ug/L	4.0	1		12/21/12 18:23	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		12/21/12 18:23	142-28-9	
2,2-Dichloropropane	ND	ug/L	4.0	1		12/21/12 18:23	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		12/21/12 18:23	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	4.0	1		12/21/12 18:23	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	4.0	1		12/21/12 18:23	10061-02-6	
Diethyl ether (Ethyl ether)	ND	ug/L	4.0	1		12/21/12 18:23	60-29-7	
Ethylbenzene	ND	ug/L	1.0	1		12/21/12 18:23	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	5.0	1		12/21/12 18:23	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		12/21/12 18:23	98-82-8	
p-Isopropyltoluene	ND	ug/L	1.0	1		12/21/12 18:23	99-87-6	
Methylene Chloride	ND	ug/L	4.0	1		12/21/12 18:23	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	4.0	1		12/21/12 18:23	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		12/21/12 18:23	1634-04-4	

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ANALYTICAL RESULTS

Project: CRC City of Rochester
Pace Project No.: 10216042

Sample: DPE-5 **Lab ID: 10216042005** Collected: 12/19/12 12:45 Received: 12/20/12 13:23 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 VOC	Analytical Method: EPA 8260							
Naphthalene	ND	ug/L	4.0	1		12/21/12 18:23	91-20-3	
n-Propylbenzene	ND	ug/L	1.0	1		12/21/12 18:23	103-65-1	
Styrene	ND	ug/L	1.0	1		12/21/12 18:23	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		12/21/12 18:23	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		12/21/12 18:23	79-34-5	
Tetrachloroethene	**74.1**	ug/L	1.0	1		12/21/12 18:23	127-18-4	
Tetrahydrofuran	ND	ug/L	10.0	1		12/21/12 18:23	109-99-9	
Toluene	ND	ug/L	1.0	1		12/21/12 18:23	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		12/21/12 18:23	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		12/21/12 18:23	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		12/21/12 18:23	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		12/21/12 18:23	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		12/21/12 18:23	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		12/21/12 18:23	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	4.0	1		12/21/12 18:23	96-18-4	
1,1,2-Trichlorotrifluoroethane	**13.4**	ug/L	1.0	1		12/21/12 18:23	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1		12/21/12 18:23	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1		12/21/12 18:23	108-67-8	
Vinyl chloride	ND	ug/L	0.40	1		12/21/12 18:23	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		12/21/12 18:23	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		12/21/12 18:23	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		12/21/12 18:23	95-47-6	
Surrogates								
Dibromofluoromethane (S)	103	%	75-125	1		12/21/12 18:23	1868-53-7	
1,2-Dichloroethane-d4 (S)	102	%	75-125	1		12/21/12 18:23	17060-07-0	
Toluene-d8 (S)	99	%	75-125	1		12/21/12 18:23	2037-26-5	
4-Bromofluorobenzene (S)	99	%	75-125	1		12/21/12 18:23	460-00-4	

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ANALYTICAL RESULTS

Project: CRC City of Rochester
Pace Project No.: 10216042

Sample: DPE-6 **Lab ID: 10216042006** Collected: 12/19/12 10:50 Received: 12/20/12 13:23 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 VOC	Analytical Method: EPA 8260							
Acetone	ND	ug/L	25.0	1		12/21/12 18:38	67-64-1	
Allyl chloride	ND	ug/L	4.0	1		12/21/12 18:38	107-05-1	
Benzene	ND	ug/L	1.0	1		12/21/12 18:38	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		12/21/12 18:38	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		12/21/12 18:38	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		12/21/12 18:38	75-27-4	
Bromoform	ND	ug/L	4.0	1		12/21/12 18:38	75-25-2	
Bromomethane	ND	ug/L	4.0	1		12/21/12 18:38	74-83-9	
2-Butanone (MEK)	ND	ug/L	4.0	1		12/21/12 18:38	78-93-3	
n-Butylbenzene	ND	ug/L	1.0	1		12/21/12 18:38	104-51-8	
sec-Butylbenzene	ND	ug/L	1.0	1		12/21/12 18:38	135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	1		12/21/12 18:38	98-06-6	
Carbon tetrachloride	ND	ug/L	1.0	1		12/21/12 18:38	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		12/21/12 18:38	108-90-7	
Chloroethane	ND	ug/L	1.0	1		12/21/12 18:38	75-00-3	
Chloroform	ND	ug/L	1.0	1		12/21/12 18:38	67-66-3	
Chloromethane	ND	ug/L	4.0	1		12/21/12 18:38	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		12/21/12 18:38	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		12/21/12 18:38	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	4.0	1		12/21/12 18:38	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		12/21/12 18:38	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		12/21/12 18:38	106-93-4	
Dibromomethane	ND	ug/L	4.0	1		12/21/12 18:38	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		12/21/12 18:38	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		12/21/12 18:38	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		12/21/12 18:38	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		12/21/12 18:38	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		12/21/12 18:38	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		12/21/12 18:38	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		12/21/12 18:38	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		12/21/12 18:38	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		12/21/12 18:38	156-60-5	
Dichlorofluoromethane	ND	ug/L	1.0	1		12/21/12 18:38	75-43-4	
1,2-Dichloropropane	ND	ug/L	4.0	1		12/21/12 18:38	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		12/21/12 18:38	142-28-9	
2,2-Dichloropropane	ND	ug/L	4.0	1		12/21/12 18:38	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		12/21/12 18:38	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	4.0	1		12/21/12 18:38	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	4.0	1		12/21/12 18:38	10061-02-6	
Diethyl ether (Ethyl ether)	ND	ug/L	4.0	1		12/21/12 18:38	60-29-7	
Ethylbenzene	ND	ug/L	1.0	1		12/21/12 18:38	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	5.0	1		12/21/12 18:38	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		12/21/12 18:38	98-82-8	
p-Isopropyltoluene	ND	ug/L	1.0	1		12/21/12 18:38	99-87-6	
Methylene Chloride	ND	ug/L	4.0	1		12/21/12 18:38	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	4.0	1		12/21/12 18:38	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		12/21/12 18:38	1634-04-4	

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ANALYTICAL RESULTS

Project: CRC City of Rochester
Pace Project No.: 10216042

Sample: DPE-6 **Lab ID: 10216042006** Collected: 12/19/12 10:50 Received: 12/20/12 13:23 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 VOC	Analytical Method: EPA 8260							
Naphthalene	ND	ug/L	4.0	1		12/21/12 18:38	91-20-3	
n-Propylbenzene	ND	ug/L	1.0	1		12/21/12 18:38	103-65-1	
Styrene	ND	ug/L	1.0	1		12/21/12 18:38	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		12/21/12 18:38	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		12/21/12 18:38	79-34-5	
Tetrachloroethene	**10.9**	ug/L	1.0	1		12/21/12 18:38	127-18-4	
Tetrahydrofuran	ND	ug/L	10.0	1		12/21/12 18:38	109-99-9	
Toluene	ND	ug/L	1.0	1		12/21/12 18:38	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		12/21/12 18:38	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		12/21/12 18:38	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		12/21/12 18:38	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		12/21/12 18:38	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		12/21/12 18:38	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		12/21/12 18:38	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	4.0	1		12/21/12 18:38	96-18-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/L	1.0	1		12/21/12 18:38	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1		12/21/12 18:38	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1		12/21/12 18:38	108-67-8	
Vinyl chloride	ND	ug/L	0.40	1		12/21/12 18:38	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		12/21/12 18:38	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		12/21/12 18:38	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		12/21/12 18:38	95-47-6	
Surrogates								
Dibromofluoromethane (S)	103	%	75-125	1		12/21/12 18:38	1868-53-7	
1,2-Dichloroethane-d4 (S)	103	%	75-125	1		12/21/12 18:38	17060-07-0	
Toluene-d8 (S)	99	%	75-125	1		12/21/12 18:38	2037-26-5	
4-Bromofluorobenzene (S)	100	%	75-125	1		12/21/12 18:38	460-00-4	

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ANALYTICAL RESULTS

Project: CRC City of Rochester
Pace Project No.: 10216042

Sample: DPE-7 **Lab ID: 10216042007** Collected: 12/19/12 09:20 Received: 12/20/12 13:23 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 VOC	Analytical Method: EPA 8260							
Acetone	ND	ug/L	25.0	1		12/21/12 18:53	67-64-1	
Allyl chloride	ND	ug/L	4.0	1		12/21/12 18:53	107-05-1	
Benzene	ND	ug/L	1.0	1		12/21/12 18:53	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		12/21/12 18:53	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		12/21/12 18:53	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		12/21/12 18:53	75-27-4	
Bromoform	ND	ug/L	4.0	1		12/21/12 18:53	75-25-2	
Bromomethane	ND	ug/L	4.0	1		12/21/12 18:53	74-83-9	
2-Butanone (MEK)	ND	ug/L	4.0	1		12/21/12 18:53	78-93-3	
n-Butylbenzene	ND	ug/L	1.0	1		12/21/12 18:53	104-51-8	
sec-Butylbenzene	ND	ug/L	1.0	1		12/21/12 18:53	135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	1		12/21/12 18:53	98-06-6	
Carbon tetrachloride	ND	ug/L	1.0	1		12/21/12 18:53	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		12/21/12 18:53	108-90-7	
Chloroethane	ND	ug/L	1.0	1		12/21/12 18:53	75-00-3	
Chloroform	ND	ug/L	1.0	1		12/21/12 18:53	67-66-3	
Chloromethane	ND	ug/L	4.0	1		12/21/12 18:53	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		12/21/12 18:53	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		12/21/12 18:53	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	4.0	1		12/21/12 18:53	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		12/21/12 18:53	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		12/21/12 18:53	106-93-4	
Dibromomethane	ND	ug/L	4.0	1		12/21/12 18:53	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		12/21/12 18:53	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		12/21/12 18:53	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		12/21/12 18:53	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		12/21/12 18:53	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		12/21/12 18:53	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		12/21/12 18:53	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		12/21/12 18:53	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		12/21/12 18:53	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		12/21/12 18:53	156-60-5	
Dichlorofluoromethane	ND	ug/L	1.0	1		12/21/12 18:53	75-43-4	
1,2-Dichloropropane	ND	ug/L	4.0	1		12/21/12 18:53	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		12/21/12 18:53	142-28-9	
2,2-Dichloropropane	ND	ug/L	4.0	1		12/21/12 18:53	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		12/21/12 18:53	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	4.0	1		12/21/12 18:53	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	4.0	1		12/21/12 18:53	10061-02-6	
Diethyl ether (Ethyl ether)	ND	ug/L	4.0	1		12/21/12 18:53	60-29-7	
Ethylbenzene	ND	ug/L	1.0	1		12/21/12 18:53	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	5.0	1		12/21/12 18:53	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		12/21/12 18:53	98-82-8	
p-Isopropyltoluene	ND	ug/L	1.0	1		12/21/12 18:53	99-87-6	
Methylene Chloride	ND	ug/L	4.0	1		12/21/12 18:53	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	4.0	1		12/21/12 18:53	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		12/21/12 18:53	1634-04-4	

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ANALYTICAL RESULTS

Project: CRC City of Rochester
Pace Project No.: 10216042

Sample: DPE-7 **Lab ID: 10216042007** Collected: 12/19/12 09:20 Received: 12/20/12 13:23 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 VOC	Analytical Method: EPA 8260							
Naphthalene	ND	ug/L	4.0	1		12/21/12 18:53	91-20-3	
n-Propylbenzene	ND	ug/L	1.0	1		12/21/12 18:53	103-65-1	
Styrene	ND	ug/L	1.0	1		12/21/12 18:53	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		12/21/12 18:53	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		12/21/12 18:53	79-34-5	
Tetrachloroethene	**3.7**	ug/L	1.0	1		12/21/12 18:53	127-18-4	
Tetrahydrofuran	ND	ug/L	10.0	1		12/21/12 18:53	109-99-9	
Toluene	ND	ug/L	1.0	1		12/21/12 18:53	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		12/21/12 18:53	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		12/21/12 18:53	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		12/21/12 18:53	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		12/21/12 18:53	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		12/21/12 18:53	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		12/21/12 18:53	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	4.0	1		12/21/12 18:53	96-18-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/L	1.0	1		12/21/12 18:53	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1		12/21/12 18:53	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1		12/21/12 18:53	108-67-8	
Vinyl chloride	ND	ug/L	0.40	1		12/21/12 18:53	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		12/21/12 18:53	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		12/21/12 18:53	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		12/21/12 18:53	95-47-6	
Surrogates								
Dibromofluoromethane (S)	103	%	75-125	1		12/21/12 18:53	1868-53-7	
1,2-Dichloroethane-d4 (S)	102	%	75-125	1		12/21/12 18:53	17060-07-0	
Toluene-d8 (S)	98	%	75-125	1		12/21/12 18:53	2037-26-5	
4-Bromofluorobenzene (S)	99	%	75-125	1		12/21/12 18:53	460-00-4	

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ANALYTICAL RESULTS

Project: CRC City of Rochester
Pace Project No.: 10216042

Sample: MW-14 **Lab ID: 10216042008** Collected: 12/19/12 10:00 Received: 12/20/12 13:23 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 VOC	Analytical Method: EPA 8260							
Acetone	ND	ug/L	25.0	1		12/21/12 19:07	67-64-1	
Allyl chloride	ND	ug/L	4.0	1		12/21/12 19:07	107-05-1	
Benzene	ND	ug/L	1.0	1		12/21/12 19:07	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		12/21/12 19:07	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		12/21/12 19:07	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		12/21/12 19:07	75-27-4	
Bromoform	ND	ug/L	4.0	1		12/21/12 19:07	75-25-2	
Bromomethane	ND	ug/L	4.0	1		12/21/12 19:07	74-83-9	
2-Butanone (MEK)	ND	ug/L	4.0	1		12/21/12 19:07	78-93-3	
n-Butylbenzene	ND	ug/L	1.0	1		12/21/12 19:07	104-51-8	
sec-Butylbenzene	ND	ug/L	1.0	1		12/21/12 19:07	135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	1		12/21/12 19:07	98-06-6	
Carbon tetrachloride	ND	ug/L	1.0	1		12/21/12 19:07	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		12/21/12 19:07	108-90-7	
Chloroethane	ND	ug/L	1.0	1		12/21/12 19:07	75-00-3	
Chloroform	**2.1**	ug/L	1.0	1		12/21/12 19:07	67-66-3	
Chloromethane	ND	ug/L	4.0	1		12/21/12 19:07	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		12/21/12 19:07	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		12/21/12 19:07	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	4.0	1		12/21/12 19:07	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		12/21/12 19:07	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		12/21/12 19:07	106-93-4	
Dibromomethane	ND	ug/L	4.0	1		12/21/12 19:07	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		12/21/12 19:07	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		12/21/12 19:07	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		12/21/12 19:07	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		12/21/12 19:07	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		12/21/12 19:07	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		12/21/12 19:07	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		12/21/12 19:07	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		12/21/12 19:07	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		12/21/12 19:07	156-60-5	
Dichlorofluoromethane	ND	ug/L	1.0	1		12/21/12 19:07	75-43-4	
1,2-Dichloropropane	ND	ug/L	4.0	1		12/21/12 19:07	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		12/21/12 19:07	142-28-9	
2,2-Dichloropropane	ND	ug/L	4.0	1		12/21/12 19:07	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		12/21/12 19:07	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	4.0	1		12/21/12 19:07	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	4.0	1		12/21/12 19:07	10061-02-6	
Diethyl ether (Ethyl ether)	ND	ug/L	4.0	1		12/21/12 19:07	60-29-7	
Ethylbenzene	ND	ug/L	1.0	1		12/21/12 19:07	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	5.0	1		12/21/12 19:07	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		12/21/12 19:07	98-82-8	
p-Isopropyltoluene	ND	ug/L	1.0	1		12/21/12 19:07	99-87-6	
Methylene Chloride	ND	ug/L	4.0	1		12/21/12 19:07	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	4.0	1		12/21/12 19:07	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		12/21/12 19:07	1634-04-4	

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ANALYTICAL RESULTS

Project: CRC City of Rochester
Pace Project No.: 10216042

Sample: MW-14 **Lab ID: 10216042008** Collected: 12/19/12 10:00 Received: 12/20/12 13:23 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 VOC	Analytical Method: EPA 8260							
Naphthalene	ND	ug/L	4.0	1		12/21/12 19:07	91-20-3	
n-Propylbenzene	ND	ug/L	1.0	1		12/21/12 19:07	103-65-1	
Styrene	ND	ug/L	1.0	1		12/21/12 19:07	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		12/21/12 19:07	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		12/21/12 19:07	79-34-5	
Tetrachloroethene	**1.3**	ug/L	1.0	1		12/21/12 19:07	127-18-4	
Tetrahydrofuran	ND	ug/L	10.0	1		12/21/12 19:07	109-99-9	
Toluene	ND	ug/L	1.0	1		12/21/12 19:07	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		12/21/12 19:07	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		12/21/12 19:07	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		12/21/12 19:07	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		12/21/12 19:07	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		12/21/12 19:07	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		12/21/12 19:07	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	4.0	1		12/21/12 19:07	96-18-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/L	1.0	1		12/21/12 19:07	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1		12/21/12 19:07	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1		12/21/12 19:07	108-67-8	
Vinyl chloride	ND	ug/L	0.40	1		12/21/12 19:07	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		12/21/12 19:07	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		12/21/12 19:07	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		12/21/12 19:07	95-47-6	
Surrogates								
Dibromofluoromethane (S)	104	%	75-125	1		12/21/12 19:07	1868-53-7	
1,2-Dichloroethane-d4 (S)	103	%	75-125	1		12/21/12 19:07	17060-07-0	
Toluene-d8 (S)	99	%	75-125	1		12/21/12 19:07	2037-26-5	
4-Bromofluorobenzene (S)	100	%	75-125	1		12/21/12 19:07	460-00-4	

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ANALYTICAL RESULTS

Project: CRC City of Rochester
Pace Project No.: 10216042

Sample: MW-15 **Lab ID: 10216042009** Collected: 12/19/12 10:20 Received: 12/20/12 13:23 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 VOC	Analytical Method: EPA 8260							
Acetone	ND	ug/L	25.0	1		12/21/12 14:40	67-64-1	
Allyl chloride	ND	ug/L	4.0	1		12/21/12 14:40	107-05-1	
Benzene	ND	ug/L	1.0	1		12/21/12 14:40	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		12/21/12 14:40	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		12/21/12 14:40	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		12/21/12 14:40	75-27-4	
Bromoform	ND	ug/L	4.0	1		12/21/12 14:40	75-25-2	
Bromomethane	ND	ug/L	4.0	1		12/21/12 14:40	74-83-9	
2-Butanone (MEK)	ND	ug/L	4.0	1		12/21/12 14:40	78-93-3	
n-Butylbenzene	ND	ug/L	1.0	1		12/21/12 14:40	104-51-8	
sec-Butylbenzene	ND	ug/L	1.0	1		12/21/12 14:40	135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	1		12/21/12 14:40	98-06-6	
Carbon tetrachloride	ND	ug/L	1.0	1		12/21/12 14:40	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		12/21/12 14:40	108-90-7	
Chloroethane	ND	ug/L	1.0	1		12/21/12 14:40	75-00-3	
Chloroform	ND	ug/L	1.0	1		12/21/12 14:40	67-66-3	
Chloromethane	ND	ug/L	4.0	1		12/21/12 14:40	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		12/21/12 14:40	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		12/21/12 14:40	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	4.0	1		12/21/12 14:40	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		12/21/12 14:40	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		12/21/12 14:40	106-93-4	
Dibromomethane	ND	ug/L	4.0	1		12/21/12 14:40	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		12/21/12 14:40	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		12/21/12 14:40	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		12/21/12 14:40	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		12/21/12 14:40	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		12/21/12 14:40	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		12/21/12 14:40	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		12/21/12 14:40	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		12/21/12 14:40	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		12/21/12 14:40	156-60-5	
Dichlorofluoromethane	ND	ug/L	1.0	1		12/21/12 14:40	75-43-4	
1,2-Dichloropropane	ND	ug/L	4.0	1		12/21/12 14:40	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		12/21/12 14:40	142-28-9	
2,2-Dichloropropane	ND	ug/L	4.0	1		12/21/12 14:40	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		12/21/12 14:40	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	4.0	1		12/21/12 14:40	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	4.0	1		12/21/12 14:40	10061-02-6	
Diethyl ether (Ethyl ether)	ND	ug/L	4.0	1		12/21/12 14:40	60-29-7	
Ethylbenzene	ND	ug/L	1.0	1		12/21/12 14:40	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	5.0	1		12/21/12 14:40	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		12/21/12 14:40	98-82-8	
p-Isopropyltoluene	ND	ug/L	1.0	1		12/21/12 14:40	99-87-6	
Methylene Chloride	ND	ug/L	4.0	1		12/21/12 14:40	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	4.0	1		12/21/12 14:40	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		12/21/12 14:40	1634-04-4	

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ANALYTICAL RESULTS

Project: CRC City of Rochester
Pace Project No.: 10216042

Sample: MW-15 **Lab ID: 10216042009** Collected: 12/19/12 10:20 Received: 12/20/12 13:23 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 VOC	Analytical Method: EPA 8260							
Naphthalene	ND	ug/L	4.0	1		12/21/12 14:40	91-20-3	
n-Propylbenzene	ND	ug/L	1.0	1		12/21/12 14:40	103-65-1	
Styrene	ND	ug/L	1.0	1		12/21/12 14:40	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		12/21/12 14:40	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		12/21/12 14:40	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		12/21/12 14:40	127-18-4	
Tetrahydrofuran	ND	ug/L	10.0	1		12/21/12 14:40	109-99-9	
Toluene	ND	ug/L	1.0	1		12/21/12 14:40	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		12/21/12 14:40	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		12/21/12 14:40	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		12/21/12 14:40	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		12/21/12 14:40	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		12/21/12 14:40	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		12/21/12 14:40	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	4.0	1		12/21/12 14:40	96-18-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/L	1.0	1		12/21/12 14:40	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1		12/21/12 14:40	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1		12/21/12 14:40	108-67-8	
Vinyl chloride	ND	ug/L	0.40	1		12/21/12 14:40	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		12/21/12 14:40	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		12/21/12 14:40	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		12/21/12 14:40	95-47-6	
Surrogates								
Dibromofluoromethane (S)	102	%	75-125	1		12/21/12 14:40	1868-53-7	
1,2-Dichloroethane-d4 (S)	103	%	75-125	1		12/21/12 14:40	17060-07-0	
Toluene-d8 (S)	99	%	75-125	1		12/21/12 14:40	2037-26-5	
4-Bromofluorobenzene (S)	98	%	75-125	1		12/21/12 14:40	460-00-4	

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ANALYTICAL RESULTS

Project: CRC City of Rochester
Pace Project No.: 10216042

Sample: MW-16 **Lab ID: 10216042010** Collected: 12/19/12 13:15 Received: 12/20/12 13:23 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 VOC	Analytical Method: EPA 8260							
Acetone	ND	ug/L	25.0	1		12/21/12 14:55	67-64-1	
Allyl chloride	ND	ug/L	4.0	1		12/21/12 14:55	107-05-1	
Benzene	ND	ug/L	1.0	1		12/21/12 14:55	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		12/21/12 14:55	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		12/21/12 14:55	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		12/21/12 14:55	75-27-4	
Bromoform	ND	ug/L	4.0	1		12/21/12 14:55	75-25-2	
Bromomethane	ND	ug/L	4.0	1		12/21/12 14:55	74-83-9	
2-Butanone (MEK)	ND	ug/L	4.0	1		12/21/12 14:55	78-93-3	
n-Butylbenzene	ND	ug/L	1.0	1		12/21/12 14:55	104-51-8	
sec-Butylbenzene	ND	ug/L	1.0	1		12/21/12 14:55	135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	1		12/21/12 14:55	98-06-6	
Carbon tetrachloride	ND	ug/L	1.0	1		12/21/12 14:55	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		12/21/12 14:55	108-90-7	
Chloroethane	ND	ug/L	1.0	1		12/21/12 14:55	75-00-3	
Chloroform	ND	ug/L	1.0	1		12/21/12 14:55	67-66-3	
Chloromethane	ND	ug/L	4.0	1		12/21/12 14:55	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		12/21/12 14:55	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		12/21/12 14:55	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	4.0	1		12/21/12 14:55	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		12/21/12 14:55	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		12/21/12 14:55	106-93-4	
Dibromomethane	ND	ug/L	4.0	1		12/21/12 14:55	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		12/21/12 14:55	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		12/21/12 14:55	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		12/21/12 14:55	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		12/21/12 14:55	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		12/21/12 14:55	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		12/21/12 14:55	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		12/21/12 14:55	75-35-4	
cis-1,2-Dichloroethene	**1.7**	ug/L	1.0	1		12/21/12 14:55	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		12/21/12 14:55	156-60-5	
Dichlorofluoromethane	ND	ug/L	1.0	1		12/21/12 14:55	75-43-4	
1,2-Dichloropropane	ND	ug/L	4.0	1		12/21/12 14:55	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		12/21/12 14:55	142-28-9	
2,2-Dichloropropane	ND	ug/L	4.0	1		12/21/12 14:55	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		12/21/12 14:55	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	4.0	1		12/21/12 14:55	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	4.0	1		12/21/12 14:55	10061-02-6	
Diethyl ether (Ethyl ether)	ND	ug/L	4.0	1		12/21/12 14:55	60-29-7	
Ethylbenzene	ND	ug/L	1.0	1		12/21/12 14:55	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	5.0	1		12/21/12 14:55	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		12/21/12 14:55	98-82-8	
p-Isopropyltoluene	ND	ug/L	1.0	1		12/21/12 14:55	99-87-6	
Methylene Chloride	ND	ug/L	4.0	1		12/21/12 14:55	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	4.0	1		12/21/12 14:55	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		12/21/12 14:55	1634-04-4	

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ANALYTICAL RESULTS

Project: CRC City of Rochester
Pace Project No.: 10216042

Sample: MW-16 **Lab ID: 10216042010** Collected: 12/19/12 13:15 Received: 12/20/12 13:23 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 VOC	Analytical Method: EPA 8260							
Naphthalene	ND	ug/L	4.0	1		12/21/12 14:55	91-20-3	
n-Propylbenzene	ND	ug/L	1.0	1		12/21/12 14:55	103-65-1	
Styrene	ND	ug/L	1.0	1		12/21/12 14:55	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		12/21/12 14:55	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		12/21/12 14:55	79-34-5	
Tetrachloroethene	**128**	ug/L	1.0	1		12/21/12 14:55	127-18-4	
Tetrahydrofuran	ND	ug/L	10.0	1		12/21/12 14:55	109-99-9	
Toluene	ND	ug/L	1.0	1		12/21/12 14:55	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		12/21/12 14:55	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		12/21/12 14:55	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		12/21/12 14:55	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		12/21/12 14:55	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		12/21/12 14:55	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		12/21/12 14:55	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	4.0	1		12/21/12 14:55	96-18-4	
1,1,2-Trichlorotrifluoroethane	**7.3**	ug/L	1.0	1		12/21/12 14:55	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1		12/21/12 14:55	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1		12/21/12 14:55	108-67-8	
Vinyl chloride	ND	ug/L	0.40	1		12/21/12 14:55	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		12/21/12 14:55	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		12/21/12 14:55	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		12/21/12 14:55	95-47-6	
Surrogates								
Dibromofluoromethane (S)	103	%	75-125	1		12/21/12 14:55	1868-53-7	
1,2-Dichloroethane-d4 (S)	102	%	75-125	1		12/21/12 14:55	17060-07-0	
Toluene-d8 (S)	100	%	75-125	1		12/21/12 14:55	2037-26-5	
4-Bromofluorobenzene (S)	100	%	75-125	1		12/21/12 14:55	460-00-4	

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ANALYTICAL RESULTS

Project: CRC City of Rochester
Pace Project No.: 10216042

Sample: MW-17 **Lab ID: 10216042011** Collected: 12/19/12 11:40 Received: 12/20/12 13:23 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 VOC	Analytical Method: EPA 8260							
Acetone	ND	ug/L	25.0	1		12/21/12 15:09	67-64-1	
Allyl chloride	ND	ug/L	4.0	1		12/21/12 15:09	107-05-1	
Benzene	ND	ug/L	1.0	1		12/21/12 15:09	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		12/21/12 15:09	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		12/21/12 15:09	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		12/21/12 15:09	75-27-4	
Bromoform	ND	ug/L	4.0	1		12/21/12 15:09	75-25-2	
Bromomethane	ND	ug/L	4.0	1		12/21/12 15:09	74-83-9	
2-Butanone (MEK)	ND	ug/L	4.0	1		12/21/12 15:09	78-93-3	
n-Butylbenzene	ND	ug/L	1.0	1		12/21/12 15:09	104-51-8	
sec-Butylbenzene	ND	ug/L	1.0	1		12/21/12 15:09	135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	1		12/21/12 15:09	98-06-6	
Carbon tetrachloride	ND	ug/L	1.0	1		12/21/12 15:09	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		12/21/12 15:09	108-90-7	
Chloroethane	ND	ug/L	1.0	1		12/21/12 15:09	75-00-3	
Chloroform	**1.1**	ug/L	1.0	1		12/21/12 15:09	67-66-3	
Chloromethane	ND	ug/L	4.0	1		12/21/12 15:09	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		12/21/12 15:09	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		12/21/12 15:09	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	4.0	1		12/21/12 15:09	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		12/21/12 15:09	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		12/21/12 15:09	106-93-4	
Dibromomethane	ND	ug/L	4.0	1		12/21/12 15:09	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		12/21/12 15:09	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		12/21/12 15:09	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		12/21/12 15:09	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		12/21/12 15:09	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		12/21/12 15:09	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		12/21/12 15:09	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		12/21/12 15:09	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		12/21/12 15:09	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		12/21/12 15:09	156-60-5	
Dichlorofluoromethane	ND	ug/L	1.0	1		12/21/12 15:09	75-43-4	
1,2-Dichloropropane	ND	ug/L	4.0	1		12/21/12 15:09	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		12/21/12 15:09	142-28-9	
2,2-Dichloropropane	ND	ug/L	4.0	1		12/21/12 15:09	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		12/21/12 15:09	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	4.0	1		12/21/12 15:09	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	4.0	1		12/21/12 15:09	10061-02-6	
Diethyl ether (Ethyl ether)	ND	ug/L	4.0	1		12/21/12 15:09	60-29-7	
Ethylbenzene	ND	ug/L	1.0	1		12/21/12 15:09	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	5.0	1		12/21/12 15:09	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		12/21/12 15:09	98-82-8	
p-Isopropyltoluene	ND	ug/L	1.0	1		12/21/12 15:09	99-87-6	
Methylene Chloride	ND	ug/L	4.0	1		12/21/12 15:09	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	4.0	1		12/21/12 15:09	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		12/21/12 15:09	1634-04-4	

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ANALYTICAL RESULTS

Project: CRC City of Rochester
Pace Project No.: 10216042

Sample: MW-17 **Lab ID: 10216042011** Collected: 12/19/12 11:40 Received: 12/20/12 13:23 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 VOC	Analytical Method: EPA 8260							
Naphthalene	ND	ug/L	4.0	1		12/21/12 15:09	91-20-3	
n-Propylbenzene	ND	ug/L	1.0	1		12/21/12 15:09	103-65-1	
Styrene	ND	ug/L	1.0	1		12/21/12 15:09	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		12/21/12 15:09	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		12/21/12 15:09	79-34-5	
Tetrachloroethene	**22.0**	ug/L	1.0	1		12/21/12 15:09	127-18-4	
Tetrahydrofuran	ND	ug/L	10.0	1		12/21/12 15:09	109-99-9	
Toluene	ND	ug/L	1.0	1		12/21/12 15:09	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		12/21/12 15:09	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		12/21/12 15:09	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		12/21/12 15:09	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		12/21/12 15:09	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		12/21/12 15:09	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		12/21/12 15:09	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	4.0	1		12/21/12 15:09	96-18-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/L	1.0	1		12/21/12 15:09	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1		12/21/12 15:09	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1		12/21/12 15:09	108-67-8	
Vinyl chloride	ND	ug/L	0.40	1		12/21/12 15:09	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		12/21/12 15:09	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		12/21/12 15:09	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		12/21/12 15:09	95-47-6	
Surrogates								
Dibromofluoromethane (S)	102	%	75-125	1		12/21/12 15:09	1868-53-7	
1,2-Dichloroethane-d4 (S)	103	%	75-125	1		12/21/12 15:09	17060-07-0	
Toluene-d8 (S)	100	%	75-125	1		12/21/12 15:09	2037-26-5	
4-Bromofluorobenzene (S)	99	%	75-125	1		12/21/12 15:09	460-00-4	

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ANALYTICAL RESULTS

Project: CRC City of Rochester
Pace Project No.: 10216042

Sample: MW-18 **Lab ID: 10216042012** Collected: 12/19/12 11:20 Received: 12/20/12 13:23 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 VOC	Analytical Method: EPA 8260							
Acetone	ND	ug/L	25.0	1		12/21/12 15:24	67-64-1	
Allyl chloride	ND	ug/L	4.0	1		12/21/12 15:24	107-05-1	
Benzene	ND	ug/L	1.0	1		12/21/12 15:24	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		12/21/12 15:24	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		12/21/12 15:24	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		12/21/12 15:24	75-27-4	
Bromoform	ND	ug/L	4.0	1		12/21/12 15:24	75-25-2	
Bromomethane	ND	ug/L	4.0	1		12/21/12 15:24	74-83-9	
2-Butanone (MEK)	ND	ug/L	4.0	1		12/21/12 15:24	78-93-3	
n-Butylbenzene	ND	ug/L	1.0	1		12/21/12 15:24	104-51-8	
sec-Butylbenzene	ND	ug/L	1.0	1		12/21/12 15:24	135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	1		12/21/12 15:24	98-06-6	
Carbon tetrachloride	ND	ug/L	1.0	1		12/21/12 15:24	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		12/21/12 15:24	108-90-7	
Chloroethane	ND	ug/L	1.0	1		12/21/12 15:24	75-00-3	
Chloroform	ND	ug/L	1.0	1		12/21/12 15:24	67-66-3	
Chloromethane	ND	ug/L	4.0	1		12/21/12 15:24	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		12/21/12 15:24	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		12/21/12 15:24	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	4.0	1		12/21/12 15:24	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		12/21/12 15:24	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		12/21/12 15:24	106-93-4	
Dibromomethane	ND	ug/L	4.0	1		12/21/12 15:24	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		12/21/12 15:24	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		12/21/12 15:24	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		12/21/12 15:24	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		12/21/12 15:24	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		12/21/12 15:24	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		12/21/12 15:24	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		12/21/12 15:24	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		12/21/12 15:24	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		12/21/12 15:24	156-60-5	
Dichlorofluoromethane	ND	ug/L	1.0	1		12/21/12 15:24	75-43-4	
1,2-Dichloropropane	ND	ug/L	4.0	1		12/21/12 15:24	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		12/21/12 15:24	142-28-9	
2,2-Dichloropropane	ND	ug/L	4.0	1		12/21/12 15:24	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		12/21/12 15:24	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	4.0	1		12/21/12 15:24	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	4.0	1		12/21/12 15:24	10061-02-6	
Diethyl ether (Ethyl ether)	ND	ug/L	4.0	1		12/21/12 15:24	60-29-7	
Ethylbenzene	ND	ug/L	1.0	1		12/21/12 15:24	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	5.0	1		12/21/12 15:24	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		12/21/12 15:24	98-82-8	
p-Isopropyltoluene	ND	ug/L	1.0	1		12/21/12 15:24	99-87-6	
Methylene Chloride	ND	ug/L	4.0	1		12/21/12 15:24	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	4.0	1		12/21/12 15:24	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		12/21/12 15:24	1634-04-4	

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ANALYTICAL RESULTS

Project: CRC City of Rochester
Pace Project No.: 10216042

Sample: MW-18 **Lab ID: 10216042012** Collected: 12/19/12 11:20 Received: 12/20/12 13:23 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 VOC	Analytical Method: EPA 8260							
Naphthalene	ND	ug/L	4.0	1		12/21/12 15:24	91-20-3	
n-Propylbenzene	ND	ug/L	1.0	1		12/21/12 15:24	103-65-1	
Styrene	ND	ug/L	1.0	1		12/21/12 15:24	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		12/21/12 15:24	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		12/21/12 15:24	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		12/21/12 15:24	127-18-4	
Tetrahydrofuran	ND	ug/L	10.0	1		12/21/12 15:24	109-99-9	
Toluene	ND	ug/L	1.0	1		12/21/12 15:24	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		12/21/12 15:24	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		12/21/12 15:24	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		12/21/12 15:24	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		12/21/12 15:24	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		12/21/12 15:24	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		12/21/12 15:24	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	4.0	1		12/21/12 15:24	96-18-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/L	1.0	1		12/21/12 15:24	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1		12/21/12 15:24	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1		12/21/12 15:24	108-67-8	
Vinyl chloride	ND	ug/L	0.40	1		12/21/12 15:24	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		12/21/12 15:24	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		12/21/12 15:24	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		12/21/12 15:24	95-47-6	
Surrogates								
Dibromofluoromethane (S)	104	%	75-125	1		12/21/12 15:24	1868-53-7	
1,2-Dichloroethane-d4 (S)	103	%	75-125	1		12/21/12 15:24	17060-07-0	
Toluene-d8 (S)	100	%	75-125	1		12/21/12 15:24	2037-26-5	
4-Bromofluorobenzene (S)	99	%	75-125	1		12/21/12 15:24	460-00-4	

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ANALYTICAL RESULTS

Project: CRC City of Rochester
Pace Project No.: 10216042

Sample: MW-19 **Lab ID: 10216042013** Collected: 12/19/12 09:00 Received: 12/20/12 13:23 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 VOC	Analytical Method: EPA 8260							
Acetone	ND	ug/L	25.0	1		12/22/12 01:15	67-64-1	
Allyl chloride	ND	ug/L	4.0	1		12/22/12 01:15	107-05-1	
Benzene	ND	ug/L	1.0	1		12/22/12 01:15	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		12/22/12 01:15	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		12/22/12 01:15	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		12/22/12 01:15	75-27-4	
Bromoform	ND	ug/L	4.0	1		12/22/12 01:15	75-25-2	
Bromomethane	ND	ug/L	4.0	1		12/22/12 01:15	74-83-9	
2-Butanone (MEK)	ND	ug/L	4.0	1		12/22/12 01:15	78-93-3	
n-Butylbenzene	ND	ug/L	1.0	1		12/22/12 01:15	104-51-8	
sec-Butylbenzene	ND	ug/L	1.0	1		12/22/12 01:15	135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	1		12/22/12 01:15	98-06-6	
Carbon tetrachloride	ND	ug/L	1.0	1		12/22/12 01:15	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		12/22/12 01:15	108-90-7	
Chloroethane	ND	ug/L	1.0	1		12/22/12 01:15	75-00-3	
Chloroform	ND	ug/L	1.0	1		12/22/12 01:15	67-66-3	
Chloromethane	ND	ug/L	4.0	1		12/22/12 01:15	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		12/22/12 01:15	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		12/22/12 01:15	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	4.0	1		12/22/12 01:15	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		12/22/12 01:15	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		12/22/12 01:15	106-93-4	
Dibromomethane	ND	ug/L	4.0	1		12/22/12 01:15	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		12/22/12 01:15	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		12/22/12 01:15	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		12/22/12 01:15	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		12/22/12 01:15	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		12/22/12 01:15	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		12/22/12 01:15	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		12/22/12 01:15	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		12/22/12 01:15	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		12/22/12 01:15	156-60-5	
Dichlorofluoromethane	ND	ug/L	1.0	1		12/22/12 01:15	75-43-4	
1,2-Dichloropropane	ND	ug/L	4.0	1		12/22/12 01:15	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		12/22/12 01:15	142-28-9	
2,2-Dichloropropane	ND	ug/L	4.0	1		12/22/12 01:15	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		12/22/12 01:15	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	4.0	1		12/22/12 01:15	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	4.0	1		12/22/12 01:15	10061-02-6	
Diethyl ether (Ethyl ether)	ND	ug/L	4.0	1		12/22/12 01:15	60-29-7	
Ethylbenzene	ND	ug/L	1.0	1		12/22/12 01:15	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	5.0	1		12/22/12 01:15	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		12/22/12 01:15	98-82-8	
p-Isopropyltoluene	ND	ug/L	1.0	1		12/22/12 01:15	99-87-6	
Methylene Chloride	ND	ug/L	4.0	1		12/22/12 01:15	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	4.0	1		12/22/12 01:15	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		12/22/12 01:15	1634-04-4	

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ANALYTICAL RESULTS

Project: CRC City of Rochester
Pace Project No.: 10216042

Sample: MW-19 **Lab ID: 10216042013** Collected: 12/19/12 09:00 Received: 12/20/12 13:23 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 VOC	Analytical Method: EPA 8260							
Naphthalene	ND	ug/L	4.0	1		12/22/12 01:15	91-20-3	
n-Propylbenzene	ND	ug/L	1.0	1		12/22/12 01:15	103-65-1	
Styrene	ND	ug/L	1.0	1		12/22/12 01:15	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		12/22/12 01:15	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		12/22/12 01:15	79-34-5	
Tetrachloroethene	**1.4**	ug/L	1.0	1		12/22/12 01:15	127-18-4	
Tetrahydrofuran	ND	ug/L	10.0	1		12/22/12 01:15	109-99-9	
Toluene	ND	ug/L	1.0	1		12/22/12 01:15	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		12/22/12 01:15	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		12/22/12 01:15	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		12/22/12 01:15	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		12/22/12 01:15	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		12/22/12 01:15	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		12/22/12 01:15	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	4.0	1		12/22/12 01:15	96-18-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/L	1.0	1		12/22/12 01:15	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1		12/22/12 01:15	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1		12/22/12 01:15	108-67-8	
Vinyl chloride	ND	ug/L	0.40	1		12/22/12 01:15	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		12/22/12 01:15	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		12/22/12 01:15	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		12/22/12 01:15	95-47-6	
Surrogates								
Dibromofluoromethane (S)	101	%	75-125	1		12/22/12 01:15	1868-53-7	
1,2-Dichloroethane-d4 (S)	102	%	75-125	1		12/22/12 01:15	17060-07-0	
Toluene-d8 (S)	98	%	75-125	1		12/22/12 01:15	2037-26-5	
4-Bromofluorobenzene (S)	100	%	75-125	1		12/22/12 01:15	460-00-4	

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ANALYTICAL RESULTS

Project: CRC City of Rochester
Pace Project No.: 10216042

Sample: MW-20 **Lab ID: 10216042014** Collected: 12/19/12 12:10 Received: 12/20/12 13:23 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 VOC	Analytical Method: EPA 8260							
Acetone	ND	ug/L	25.0	1		12/22/12 01:30	67-64-1	
Allyl chloride	ND	ug/L	4.0	1		12/22/12 01:30	107-05-1	
Benzene	ND	ug/L	1.0	1		12/22/12 01:30	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		12/22/12 01:30	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		12/22/12 01:30	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		12/22/12 01:30	75-27-4	
Bromoform	ND	ug/L	4.0	1		12/22/12 01:30	75-25-2	
Bromomethane	ND	ug/L	4.0	1		12/22/12 01:30	74-83-9	
2-Butanone (MEK)	ND	ug/L	4.0	1		12/22/12 01:30	78-93-3	
n-Butylbenzene	ND	ug/L	1.0	1		12/22/12 01:30	104-51-8	
sec-Butylbenzene	ND	ug/L	1.0	1		12/22/12 01:30	135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	1		12/22/12 01:30	98-06-6	
Carbon tetrachloride	ND	ug/L	1.0	1		12/22/12 01:30	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		12/22/12 01:30	108-90-7	
Chloroethane	ND	ug/L	1.0	1		12/22/12 01:30	75-00-3	
Chloroform	ND	ug/L	1.0	1		12/22/12 01:30	67-66-3	
Chloromethane	ND	ug/L	4.0	1		12/22/12 01:30	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		12/22/12 01:30	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		12/22/12 01:30	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	4.0	1		12/22/12 01:30	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		12/22/12 01:30	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		12/22/12 01:30	106-93-4	
Dibromomethane	ND	ug/L	4.0	1		12/22/12 01:30	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		12/22/12 01:30	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		12/22/12 01:30	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		12/22/12 01:30	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		12/22/12 01:30	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		12/22/12 01:30	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		12/22/12 01:30	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		12/22/12 01:30	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		12/22/12 01:30	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		12/22/12 01:30	156-60-5	
Dichlorofluoromethane	ND	ug/L	1.0	1		12/22/12 01:30	75-43-4	
1,2-Dichloropropane	ND	ug/L	4.0	1		12/22/12 01:30	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		12/22/12 01:30	142-28-9	
2,2-Dichloropropane	ND	ug/L	4.0	1		12/22/12 01:30	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		12/22/12 01:30	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	4.0	1		12/22/12 01:30	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	4.0	1		12/22/12 01:30	10061-02-6	
Diethyl ether (Ethyl ether)	ND	ug/L	4.0	1		12/22/12 01:30	60-29-7	
Ethylbenzene	ND	ug/L	1.0	1		12/22/12 01:30	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	5.0	1		12/22/12 01:30	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		12/22/12 01:30	98-82-8	
p-Isopropyltoluene	ND	ug/L	1.0	1		12/22/12 01:30	99-87-6	
Methylene Chloride	ND	ug/L	4.0	1		12/22/12 01:30	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	4.0	1		12/22/12 01:30	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		12/22/12 01:30	1634-04-4	

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ANALYTICAL RESULTS

Project: CRC City of Rochester
Pace Project No.: 10216042

Sample: MW-20 **Lab ID: 10216042014** Collected: 12/19/12 12:10 Received: 12/20/12 13:23 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 VOC	Analytical Method: EPA 8260							
Naphthalene	ND	ug/L	4.0	1		12/22/12 01:30	91-20-3	
n-Propylbenzene	ND	ug/L	1.0	1		12/22/12 01:30	103-65-1	
Styrene	ND	ug/L	1.0	1		12/22/12 01:30	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		12/22/12 01:30	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		12/22/12 01:30	79-34-5	
Tetrachloroethene	**40.8**	ug/L	1.0	1		12/22/12 01:30	127-18-4	
Tetrahydrofuran	ND	ug/L	10.0	1		12/22/12 01:30	109-99-9	
Toluene	ND	ug/L	1.0	1		12/22/12 01:30	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		12/22/12 01:30	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		12/22/12 01:30	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		12/22/12 01:30	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		12/22/12 01:30	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		12/22/12 01:30	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		12/22/12 01:30	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	4.0	1		12/22/12 01:30	96-18-4	
1,1,2-Trichlorotrifluoroethane	**1.3**	ug/L	1.0	1		12/22/12 01:30	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1		12/22/12 01:30	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1		12/22/12 01:30	108-67-8	
Vinyl chloride	ND	ug/L	0.40	1		12/22/12 01:30	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		12/22/12 01:30	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		12/22/12 01:30	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		12/22/12 01:30	95-47-6	
Surrogates								
Dibromofluoromethane (S)	103	%	75-125	1		12/22/12 01:30	1868-53-7	
1,2-Dichloroethane-d4 (S)	103	%	75-125	1		12/22/12 01:30	17060-07-0	
Toluene-d8 (S)	99	%	75-125	1		12/22/12 01:30	2037-26-5	
4-Bromofluorobenzene (S)	100	%	75-125	1		12/22/12 01:30	460-00-4	

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ANALYTICAL RESULTS

Project: CRC City of Rochester
Pace Project No.: 10216042

Sample: Trip Blank **Lab ID: 10216042015** Collected: Received: 12/20/12 13:23 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 VOC	Analytical Method: EPA 8260							
Acetone	ND	ug/L	25.0	1		12/21/12 22:04	67-64-1	
Allyl chloride	ND	ug/L	4.0	1		12/21/12 22:04	107-05-1	
Benzene	ND	ug/L	1.0	1		12/21/12 22:04	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		12/21/12 22:04	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		12/21/12 22:04	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		12/21/12 22:04	75-27-4	
Bromoform	ND	ug/L	4.0	1		12/21/12 22:04	75-25-2	
Bromomethane	ND	ug/L	4.0	1		12/21/12 22:04	74-83-9	
2-Butanone (MEK)	ND	ug/L	4.0	1		12/21/12 22:04	78-93-3	
n-Butylbenzene	ND	ug/L	1.0	1		12/21/12 22:04	104-51-8	
sec-Butylbenzene	ND	ug/L	1.0	1		12/21/12 22:04	135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	1		12/21/12 22:04	98-06-6	
Carbon tetrachloride	ND	ug/L	1.0	1		12/21/12 22:04	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		12/21/12 22:04	108-90-7	
Chloroethane	ND	ug/L	1.0	1		12/21/12 22:04	75-00-3	
Chloroform	ND	ug/L	1.0	1		12/21/12 22:04	67-66-3	
Chloromethane	ND	ug/L	4.0	1		12/21/12 22:04	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		12/21/12 22:04	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		12/21/12 22:04	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	4.0	1		12/21/12 22:04	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		12/21/12 22:04	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		12/21/12 22:04	106-93-4	
Dibromomethane	ND	ug/L	4.0	1		12/21/12 22:04	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		12/21/12 22:04	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		12/21/12 22:04	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		12/21/12 22:04	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		12/21/12 22:04	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		12/21/12 22:04	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		12/21/12 22:04	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		12/21/12 22:04	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		12/21/12 22:04	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		12/21/12 22:04	156-60-5	
Dichlorofluoromethane	ND	ug/L	1.0	1		12/21/12 22:04	75-43-4	
1,2-Dichloropropane	ND	ug/L	4.0	1		12/21/12 22:04	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		12/21/12 22:04	142-28-9	
2,2-Dichloropropane	ND	ug/L	4.0	1		12/21/12 22:04	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		12/21/12 22:04	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	4.0	1		12/21/12 22:04	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	4.0	1		12/21/12 22:04	10061-02-6	
Diethyl ether (Ethyl ether)	ND	ug/L	4.0	1		12/21/12 22:04	60-29-7	
Ethylbenzene	ND	ug/L	1.0	1		12/21/12 22:04	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	5.0	1		12/21/12 22:04	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		12/21/12 22:04	98-82-8	
p-Isopropyltoluene	ND	ug/L	1.0	1		12/21/12 22:04	99-87-6	
Methylene Chloride	ND	ug/L	4.0	1		12/21/12 22:04	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	4.0	1		12/21/12 22:04	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		12/21/12 22:04	1634-04-4	

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ANALYTICAL RESULTS

Project: CRC City of Rochester
Pace Project No.: 10216042

Sample: Trip Blank **Lab ID: 10216042015** Collected: Received: 12/20/12 13:23 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 VOC	Analytical Method: EPA 8260							
Naphthalene	ND	ug/L	4.0	1		12/21/12 22:04	91-20-3	
n-Propylbenzene	ND	ug/L	1.0	1		12/21/12 22:04	103-65-1	
Styrene	ND	ug/L	1.0	1		12/21/12 22:04	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		12/21/12 22:04	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		12/21/12 22:04	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		12/21/12 22:04	127-18-4	
Tetrahydrofuran	ND	ug/L	10.0	1		12/21/12 22:04	109-99-9	
Toluene	ND	ug/L	1.0	1		12/21/12 22:04	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		12/21/12 22:04	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		12/21/12 22:04	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		12/21/12 22:04	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		12/21/12 22:04	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		12/21/12 22:04	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		12/21/12 22:04	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	4.0	1		12/21/12 22:04	96-18-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/L	1.0	1		12/21/12 22:04	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1		12/21/12 22:04	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1		12/21/12 22:04	108-67-8	
Vinyl chloride	ND	ug/L	0.40	1		12/21/12 22:04	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		12/21/12 22:04	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		12/21/12 22:04	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		12/21/12 22:04	95-47-6	
Surrogates								
Dibromofluoromethane (S)	103	%	75-125	1		12/21/12 22:04	1868-53-7	
1,2-Dichloroethane-d4 (S)	102	%	75-125	1		12/21/12 22:04	17060-07-0	
Toluene-d8 (S)	100	%	75-125	1		12/21/12 22:04	2037-26-5	
4-Bromofluorobenzene (S)	102	%	75-125	1		12/21/12 22:04	460-00-4	

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QUALITY CONTROL DATA

Project: CRC City of Rochester
Pace Project No.: 10216042

QC Batch: MSV/22524 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV 465 W
Associated Lab Samples: 10216042001, 10216042002, 10216042003, 10216042004, 10216042005, 10216042006, 10216042007, 10216042008, 10216042009, 10216042010, 10216042011, 10216042012

METHOD BLANK: 1355464 Matrix: Water
Associated Lab Samples: 10216042001, 10216042002, 10216042003, 10216042004, 10216042005, 10216042006, 10216042007, 10216042008, 10216042009, 10216042010, 10216042011, 10216042012

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	1.0	12/21/12 11:29	
1,1,1-Trichloroethane	ug/L	ND	1.0	12/21/12 11:29	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	12/21/12 11:29	
1,1,2-Trichloroethane	ug/L	ND	1.0	12/21/12 11:29	
1,1,2-Trichlorotrifluoroethane	ug/L	ND	1.0	12/21/12 11:29	
1,1-Dichloroethane	ug/L	ND	1.0	12/21/12 11:29	
1,1-Dichloroethene	ug/L	ND	1.0	12/21/12 11:29	
1,1-Dichloropropene	ug/L	ND	1.0	12/21/12 11:29	
1,2,3-Trichlorobenzene	ug/L	ND	1.0	12/21/12 11:29	
1,2,3-Trichloropropane	ug/L	ND	4.0	12/21/12 11:29	
1,2,4-Trichlorobenzene	ug/L	ND	1.0	12/21/12 11:29	
1,2,4-Trimethylbenzene	ug/L	ND	1.0	12/21/12 11:29	
1,2-Dibromo-3-chloropropane	ug/L	ND	4.0	12/21/12 11:29	
1,2-Dibromoethane (EDB)	ug/L	ND	1.0	12/21/12 11:29	
1,2-Dichlorobenzene	ug/L	ND	1.0	12/21/12 11:29	
1,2-Dichloroethane	ug/L	ND	1.0	12/21/12 11:29	
1,2-Dichloropropane	ug/L	ND	4.0	12/21/12 11:29	
1,3,5-Trimethylbenzene	ug/L	ND	1.0	12/21/12 11:29	
1,3-Dichlorobenzene	ug/L	ND	1.0	12/21/12 11:29	
1,3-Dichloropropane	ug/L	ND	1.0	12/21/12 11:29	
1,4-Dichlorobenzene	ug/L	ND	1.0	12/21/12 11:29	
2,2-Dichloropropane	ug/L	ND	4.0	12/21/12 11:29	
2-Butanone (MEK)	ug/L	ND	4.0	12/21/12 11:29	
2-Chlorotoluene	ug/L	ND	1.0	12/21/12 11:29	
4-Chlorotoluene	ug/L	ND	1.0	12/21/12 11:29	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	4.0	12/21/12 11:29	
Acetone	ug/L	ND	25.0	12/21/12 11:29	
Allyl chloride	ug/L	ND	4.0	12/21/12 11:29	
Benzene	ug/L	ND	1.0	12/21/12 11:29	
Bromobenzene	ug/L	ND	1.0	12/21/12 11:29	
Bromochloromethane	ug/L	ND	1.0	12/21/12 11:29	
Bromodichloromethane	ug/L	ND	1.0	12/21/12 11:29	
Bromoform	ug/L	ND	4.0	12/21/12 11:29	
Bromomethane	ug/L	ND	4.0	12/21/12 11:29	
Carbon tetrachloride	ug/L	ND	1.0	12/21/12 11:29	
Chlorobenzene	ug/L	ND	1.0	12/21/12 11:29	
Chloroethane	ug/L	ND	1.0	12/21/12 11:29	
Chloroform	ug/L	ND	1.0	12/21/12 11:29	
Chloromethane	ug/L	ND	4.0	12/21/12 11:29	
cis-1,2-Dichloroethene	ug/L	ND	1.0	12/21/12 11:29	
cis-1,3-Dichloropropene	ug/L	ND	4.0	12/21/12 11:29	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: CRC City of Rochester
Pace Project No.: 10216042

METHOD BLANK: 1355464 Matrix: Water

Associated Lab Samples: 10216042001, 10216042002, 10216042003, 10216042004, 10216042005, 10216042006, 10216042007, 10216042008, 10216042009, 10216042010, 10216042011, 10216042012

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Dibromochloromethane	ug/L	ND	1.0	12/21/12 11:29	
Dibromomethane	ug/L	ND	4.0	12/21/12 11:29	
Dichlorodifluoromethane	ug/L	ND	1.0	12/21/12 11:29	
Dichlorofluoromethane	ug/L	ND	1.0	12/21/12 11:29	
Diethyl ether (Ethyl ether)	ug/L	ND	4.0	12/21/12 11:29	
Ethylbenzene	ug/L	ND	1.0	12/21/12 11:29	
Hexachloro-1,3-butadiene	ug/L	ND	5.0	12/21/12 11:29	
Isopropylbenzene (Cumene)	ug/L	ND	1.0	12/21/12 11:29	
m&p-Xylene	ug/L	ND	2.0	12/21/12 11:29	
Methyl-tert-butyl ether	ug/L	ND	1.0	12/21/12 11:29	
Methylene Chloride	ug/L	ND	4.0	12/21/12 11:29	
n-Butylbenzene	ug/L	ND	1.0	12/21/12 11:29	
n-Propylbenzene	ug/L	ND	1.0	12/21/12 11:29	
Naphthalene	ug/L	ND	4.0	12/21/12 11:29	
o-Xylene	ug/L	ND	1.0	12/21/12 11:29	
p-Isopropyltoluene	ug/L	ND	1.0	12/21/12 11:29	
sec-Butylbenzene	ug/L	ND	1.0	12/21/12 11:29	
Styrene	ug/L	ND	1.0	12/21/12 11:29	
tert-Butylbenzene	ug/L	ND	1.0	12/21/12 11:29	
Tetrachloroethene	ug/L	ND	1.0	12/21/12 11:29	
Tetrahydrofuran	ug/L	ND	10.0	12/21/12 11:29	
Toluene	ug/L	ND	1.0	12/21/12 11:29	
trans-1,2-Dichloroethene	ug/L	ND	1.0	12/21/12 11:29	
trans-1,3-Dichloropropene	ug/L	ND	4.0	12/21/12 11:29	
Trichloroethene	ug/L	ND	1.0	12/21/12 11:29	
Trichlorofluoromethane	ug/L	ND	1.0	12/21/12 11:29	
Vinyl chloride	ug/L	ND	0.40	12/21/12 11:29	
Xylene (Total)	ug/L	ND	3.0	12/21/12 11:29	
1,2-Dichloroethane-d4 (S)	%	101	75-125	12/21/12 11:29	
4-Bromofluorobenzene (S)	%	101	75-125	12/21/12 11:29	
Dibromofluoromethane (S)	%	103	75-125	12/21/12 11:29	
Toluene-d8 (S)	%	100	75-125	12/21/12 11:29	

LABORATORY CONTROL SAMPLE: 1355465

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	43.5	87	75-125	
1,1,1-Trichloroethane	ug/L	50	42.3	85	73-128	
1,1,2,2-Tetrachloroethane	ug/L	50	44.8	90	75-125	
1,1,2-Trichloroethane	ug/L	50	44.4	89	75-125	
1,1,2-Trichlorotrifluoroethane	ug/L	50	37.7	75	63-125	
1,1-Dichloroethane	ug/L	50	43.1	86	72-126	
1,1-Dichloroethene	ug/L	50	41.5	83	73-129	
1,1-Dichloropropene	ug/L	50	41.4	83	72-128	

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QUALITY CONTROL DATA

Project: CRC City of Rochester
Pace Project No.: 10216042

LABORATORY CONTROL SAMPLE: 1355465

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,3-Trichlorobenzene	ug/L	50	41.8	84	73-125	
1,2,3-Trichloropropane	ug/L	50	45.7	91	75-125	
1,2,4-Trichlorobenzene	ug/L	50	42.6	85	74-125	
1,2,4-Trimethylbenzene	ug/L	50	41.7	83	75-126	
1,2-Dibromo-3-chloropropane	ug/L	50	44.2	88	75-125	
1,2-Dibromoethane (EDB)	ug/L	50	45.0	90	75-125	
1,2-Dichlorobenzene	ug/L	50	42.1	84	75-125	
1,2-Dichloroethane	ug/L	50	43.8	88	75-132	
1,2-Dichloropropane	ug/L	50	43.0	86	75-125	
1,3,5-Trimethylbenzene	ug/L	50	40.9	82	75-126	
1,3-Dichlorobenzene	ug/L	50	41.0	82	75-125	
1,3-Dichloropropane	ug/L	50	44.7	89	75-125	
1,4-Dichlorobenzene	ug/L	50	41.9	84	75-125	
2,2-Dichloropropane	ug/L	50	43.3	87	72-133	
2-Butanone (MEK)	ug/L	50	46.4	93	52-138	
2-Chlorotoluene	ug/L	50	40.2	80	74-125	
4-Chlorotoluene	ug/L	50	40.9	82	75-125	
4-Methyl-2-pentanone (MIBK)	ug/L	50	46.4	93	75-125	
Acetone	ug/L	125	114	91	30-150	
Allyl chloride	ug/L	50	43.9	88	75-132	
Benzene	ug/L	50	41.6	83	75-132	
Bromobenzene	ug/L	50	42.3	85	75-125	
Bromochloromethane	ug/L	50	45.8	92	75-126	
Bromodichloromethane	ug/L	50	43.7	87	75-125	
Bromoform	ug/L	50	47.0	94	75-125	
Bromomethane	ug/L	50	43.3	87	52-150	
Carbon tetrachloride	ug/L	50	42.1	84	73-132	
Chlorobenzene	ug/L	50	41.4	83	75-125	
Chloroethane	ug/L	50	38.2	76	75-143	
Chloroform	ug/L	50	43.2	86	75-128	
Chloromethane	ug/L	50	40.3	81	56-136	
cis-1,2-Dichloroethene	ug/L	50	42.6	85	75-125	
cis-1,3-Dichloropropene	ug/L	50	44.7	89	75-125	
Dibromochloromethane	ug/L	50	46.1	92	75-125	
Dibromomethane	ug/L	50	44.5	89	75-125	
Dichlorodifluoromethane	ug/L	50	34.3	69	50-137	
Dichlorofluoromethane	ug/L	50	42.1	84	68-133	
Diethyl ether (Ethyl ether)	ug/L	50	45.0	90	75-125	
Ethylbenzene	ug/L	50	40.3	81	75-125	
Hexachloro-1,3-butadiene	ug/L	25	22.2	89	57-132	
Isopropylbenzene (Cumene)	ug/L	50	40.5	81	75-125	
m&p-Xylene	ug/L	100	82.1	82	75-125	
Methyl-tert-butyl ether	ug/L	50	45.4	91	74-130	
Methylene Chloride	ug/L	50	41.6	83	62-127	
n-Butylbenzene	ug/L	50	41.1	82	68-128	
n-Propylbenzene	ug/L	50	40.0	80	74-125	
Naphthalene	ug/L	50	42.5	85	75-125	
o-Xylene	ug/L	50	41.4	83	75-125	

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QUALITY CONTROL DATA

Project: CRC City of Rochester
Pace Project No.: 10216042

LABORATORY CONTROL SAMPLE: 1355465

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
p-Isopropyltoluene	ug/L	50	41.4	83	75-125	
sec-Butylbenzene	ug/L	50	40.9	82	71-125	
Styrene	ug/L	50	43.4	87	75-125	
tert-Butylbenzene	ug/L	50	41.0	82	73-125	
Tetrachloroethene	ug/L	50	40.3	81	75-125	
Tetrahydrofuran	ug/L	500	443	89	75-128	
Toluene	ug/L	50	40.7	81	75-125	
trans-1,2-Dichloroethene	ug/L	50	42.5	85	75-125	
trans-1,3-Dichloropropene	ug/L	50	46.6	93	75-125	
Trichloroethene	ug/L	50	41.0	82	75-125	
Trichlorofluoromethane	ug/L	50	37.7	75	64-139	
Vinyl chloride	ug/L	50	40.1	80	75-150	
Xylene (Total)	ug/L	150	124	82	75-125	
1,2-Dichloroethane-d4 (S)	%			99	75-125	
4-Bromofluorobenzene (S)	%			101	75-125	
Dibromofluoromethane (S)	%			103	75-125	
Toluene-d8 (S)	%			103	75-125	

MATRIX SPIKE SAMPLE: 1356043

Parameter	Units	10215989004 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	50	48.5	97	75-125	
1,1,1-Trichloroethane	ug/L	ND	50	51.9	104	75-145	
1,1,2,2-Tetrachloroethane	ug/L	ND	50	46.6	93	75-125	
1,1,2-Trichloroethane	ug/L	ND	50	47.3	95	75-125	
1,1,2-Trichlorotrifluoroethane	ug/L	ND	50	61.1	122	75-150	
1,1-Dichloroethane	ug/L	ND	50	51.2	102	75-139	
1,1-Dichloroethene	ug/L	ND	50	52.7	105	75-148	
1,1-Dichloropropene	ug/L	ND	50	52.4	105	75-148	
1,2,3-Trichlorobenzene	ug/L	ND	50	44.1	88	75-127	
1,2,3-Trichloropropane	ug/L	ND	50	47.7	95	75-125	
1,2,4-Trichlorobenzene	ug/L	ND	50	46.6	93	75-126	
1,2,4-Trimethylbenzene	ug/L	3.6	50	52.1	97	75-135	
1,2-Dibromo-3-chloropropane	ug/L	ND	50	46.5	93	75-125	
1,2-Dibromoethane (EDB)	ug/L	ND	50	47.8	96	75-125	
1,2-Dichlorobenzene	ug/L	ND	50	46.2	92	75-125	
1,2-Dichloroethane	ug/L	ND	50	48.0	96	75-139	
1,2-Dichloropropane	ug/L	ND	50	48.4	97	75-131	
1,3,5-Trimethylbenzene	ug/L	1.4	50	49.8	97	75-134	
1,3-Dichlorobenzene	ug/L	ND	50	46.2	92	75-125	
1,3-Dichloropropane	ug/L	ND	50	47.6	95	75-127	
1,4-Dichlorobenzene	ug/L	ND	50	46.4	93	75-125	
2,2-Dichloropropane	ug/L	ND	50	53.7	107	75-150	
2-Butanone (MEK)	ug/L	ND	50	49.3	99	50-138	
2-Chlorotoluene	ug/L	ND	50	47.3	95	75-134	
4-Chlorotoluene	ug/L	ND	50	47.7	95	75-130	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	50	49.2	98	75-125	

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QUALITY CONTROL DATA

Project: CRC City of Rochester
Pace Project No.: 10216042

MATRIX SPIKE SAMPLE: 1356043

Parameter	Units	10215989004 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Acetone	ug/L	ND	125	134	96	30-142	
Allyl chloride	ug/L	ND	50	53.5	107	75-146	
Benzene	ug/L	2.0	50	51.4	99	75-146	
Bromobenzene	ug/L	ND	50	47.0	94	75-125	
Bromochloromethane	ug/L	ND	50	50.4	101	75-129	
Bromodichloromethane	ug/L	ND	50	49.2	98	75-130	
Bromoform	ug/L	ND	50	49.3	99	75-125	
Bromomethane	ug/L	ND	50	52.4	105	52-150	
Carbon tetrachloride	ug/L	ND	50	54.3	109	75-150	
Chlorobenzene	ug/L	ND	50	47.7	95	75-127	
Chloroethane	ug/L	ND	50	48.4	97	75-146	
Chloroform	ug/L	ND	50	49.8	100	75-137	
Chloromethane	ug/L	ND	50	52.0	104	64-150	
cis-1,2-Dichloroethene	ug/L	ND	50	49.4	99	75-139	
cis-1,3-Dichloropropene	ug/L	ND	50	49.9	100	75-129	
Dibromochloromethane	ug/L	ND	50	48.7	97	75-125	
Dibromomethane	ug/L	ND	50	47.3	95	75-126	
Dichlorodifluoromethane	ug/L	ND	50	59.6	119	75-150	
Dichlorofluoromethane	ug/L	ND	50	50.3	101	75-143	
Diethyl ether (Ethyl ether)	ug/L	ND	50	48.5	97	71-133	
Ethylbenzene	ug/L	1.4	50	49.1	96	75-132	
Hexachloro-1,3-butadiene	ug/L	ND	25	26.4	106	62-147	
Isopropylbenzene (Cumene)	ug/L	ND	50	49.5	98	75-135	
m&p-Xylene	ug/L	6.8	100	105	98	75-131	
Methyl-tert-butyl ether	ug/L	ND	50	48.7	97	71-137	
Methylene Chloride	ug/L	ND	50	47.0	94	57-134	
n-Butylbenzene	ug/L	ND	50	50.9	102	74-139	
n-Propylbenzene	ug/L	ND	50	49.0	97	75-137	
Naphthalene	ug/L	ND	50	46.3	90	75-129	
o-Xylene	ug/L	3.0	50	50.8	96	75-128	
p-Isopropyltoluene	ug/L	ND	50	49.8	99	75-135	
sec-Butylbenzene	ug/L	ND	50	49.9	100	75-137	
Styrene	ug/L	ND	50	49.3	99	75-126	
tert-Butylbenzene	ug/L	ND	50	48.9	98	75-133	
Tetrachloroethene	ug/L	ND	50	49.4	99	75-138	
Tetrahydrofuran	ug/L	ND	500	480	96	74-128	
Toluene	ug/L	7.7	50	55.1	95	75-131	
trans-1,2-Dichloroethene	ug/L	ND	50	52.2	104	75-140	
trans-1,3-Dichloropropene	ug/L	ND	50	49.9	100	75-129	
Trichloroethene	ug/L	ND	50	50.3	101	75-132	
Trichlorofluoromethane	ug/L	ND	50	55.9	112	75-150	
Vinyl chloride	ug/L	ND	50	53.3	107	75-150	
Xylene (Total)	ug/L	9.8	150	156	97	75-129	
1,2-Dichloroethane-d4 (S)	%				100	75-125	
4-Bromofluorobenzene (S)	%				99	75-125	
Dibromofluoromethane (S)	%				103	75-125	
Toluene-d8 (S)	%				101	75-125	

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QUALITY CONTROL DATA

Project: CRC City of Rochester
Pace Project No.: 10216042

SAMPLE DUPLICATE: 1356044

Parameter	Units	10215989005 Result	Dup Result	RPD	Max RPD	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	ND		30	
1,1,1-Trichloroethane	ug/L	ND	ND		30	
1,1,2,2-Tetrachloroethane	ug/L	ND	ND		30	
1,1,2-Trichloroethane	ug/L	ND	ND		30	
1,1,2-Trichlorotrifluoroethane	ug/L	ND	ND		30	
1,1-Dichloroethane	ug/L	ND	ND		30	
1,1-Dichloroethene	ug/L	ND	ND		30	
1,1-Dichloropropene	ug/L	ND	ND		30	
1,2,3-Trichlorobenzene	ug/L	ND	ND		30	
1,2,3-Trichloropropane	ug/L	ND	ND		30	
1,2,4-Trichlorobenzene	ug/L	ND	ND		30	
1,2,4-Trimethylbenzene	ug/L	ND	.074J		30	
1,2-Dibromo-3-chloropropane	ug/L	ND	ND		30	
1,2-Dibromoethane (EDB)	ug/L	ND	ND		30	
1,2-Dichlorobenzene	ug/L	ND	ND		30	
1,2-Dichloroethane	ug/L	ND	ND		30	
1,2-Dichloropropane	ug/L	ND	ND		30	
1,3,5-Trimethylbenzene	ug/L	ND	ND		30	
1,3-Dichlorobenzene	ug/L	ND	ND		30	
1,3-Dichloropropane	ug/L	ND	ND		30	
1,4-Dichlorobenzene	ug/L	ND	ND		30	
2,2-Dichloropropane	ug/L	ND	ND		30	
2-Butanone (MEK)	ug/L	ND	ND		30	
2-Chlorotoluene	ug/L	ND	ND		30	
4-Chlorotoluene	ug/L	ND	ND		30	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	ND		30	
Acetone	ug/L	ND	ND		30	
Allyl chloride	ug/L	ND	ND		30	
Benzene	ug/L	ND	ND		30	
Bromobenzene	ug/L	ND	ND		30	
Bromochloromethane	ug/L	ND	ND		30	
Bromodichloromethane	ug/L	ND	ND		30	
Bromoform	ug/L	ND	ND		30	
Bromomethane	ug/L	ND	ND		30	
Carbon tetrachloride	ug/L	ND	ND		30	
Chlorobenzene	ug/L	ND	ND		30	
Chloroethane	ug/L	ND	ND		30	
Chloroform	ug/L	ND	ND		30	
Chloromethane	ug/L	ND	ND		30	
cis-1,2-Dichloroethene	ug/L	ND	ND		30	
cis-1,3-Dichloropropene	ug/L	ND	ND		30	
Dibromochloromethane	ug/L	ND	ND		30	
Dibromomethane	ug/L	ND	ND		30	
Dichlorodifluoromethane	ug/L	ND	ND		30	
Dichlorofluoromethane	ug/L	ND	ND		30	
Diethyl ether (Ethyl ether)	ug/L	ND	ND		30	
Ethylbenzene	ug/L	ND	ND		30	
Hexachloro-1,3-butadiene	ug/L	ND	ND		30	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: CRC City of Rochester
Pace Project No.: 10216042

SAMPLE DUPLICATE: 1356044

Parameter	Units	10215989005 Result	Dup Result	RPD	Max RPD	Qualifiers
Isopropylbenzene (Cumene)	ug/L	ND	ND		30	
m&p-Xylene	ug/L	ND	.15J		30	
Methyl-tert-butyl ether	ug/L	ND	ND		30	
Methylene Chloride	ug/L	ND	ND		30	
n-Butylbenzene	ug/L	ND	ND		30	
n-Propylbenzene	ug/L	ND	ND		30	
Naphthalene	ug/L	ND	.11J		30	
o-Xylene	ug/L	ND	ND		30	
p-Isopropyltoluene	ug/L	ND	ND		30	
sec-Butylbenzene	ug/L	ND	ND		30	
Styrene	ug/L	ND	ND		30	
tert-Butylbenzene	ug/L	ND	ND		30	
Tetrachloroethene	ug/L	ND	ND		30	
Tetrahydrofuran	ug/L	ND	ND		30	
Toluene	ug/L	ND	.23J		30	
trans-1,2-Dichloroethene	ug/L	ND	ND		30	
trans-1,3-Dichloropropene	ug/L	ND	ND		30	
Trichloroethene	ug/L	ND	ND		30	
Trichlorofluoromethane	ug/L	ND	ND		30	
Vinyl chloride	ug/L	ND	ND		30	
Xylene (Total)	ug/L	ND	ND		30	
1,2-Dichloroethane-d4 (S)	%	100	101	1		
4-Bromofluorobenzene (S)	%	99	100	.04		
Dibromofluoromethane (S)	%	103	102	.3		
Toluene-d8 (S)	%	100	98	2		

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QUALITY CONTROL DATA

Project: CRC City of Rochester
Pace Project No.: 10216042

QC Batch: MSV/22528 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV 465 W
Associated Lab Samples: 10216042013, 10216042014, 10216042015

METHOD BLANK: 1355990 Matrix: Water
Associated Lab Samples: 10216042013, 10216042014, 10216042015

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	1.0	12/21/12 21:49	
1,1,1-Trichloroethane	ug/L	ND	1.0	12/21/12 21:49	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	12/21/12 21:49	
1,1,2-Trichloroethane	ug/L	ND	1.0	12/21/12 21:49	
1,1,2-Trichlorotrifluoroethane	ug/L	ND	1.0	12/21/12 21:49	
1,1-Dichloroethane	ug/L	ND	1.0	12/21/12 21:49	
1,1-Dichloroethene	ug/L	ND	1.0	12/21/12 21:49	
1,1-Dichloropropene	ug/L	ND	1.0	12/21/12 21:49	
1,2,3-Trichlorobenzene	ug/L	ND	1.0	12/21/12 21:49	
1,2,3-Trichloropropane	ug/L	ND	4.0	12/21/12 21:49	
1,2,4-Trichlorobenzene	ug/L	ND	1.0	12/21/12 21:49	
1,2,4-Trimethylbenzene	ug/L	ND	1.0	12/21/12 21:49	
1,2-Dibromo-3-chloropropane	ug/L	ND	4.0	12/21/12 21:49	
1,2-Dibromoethane (EDB)	ug/L	ND	1.0	12/21/12 21:49	
1,2-Dichlorobenzene	ug/L	ND	1.0	12/21/12 21:49	
1,2-Dichloroethane	ug/L	ND	1.0	12/21/12 21:49	
1,2-Dichloropropane	ug/L	ND	4.0	12/21/12 21:49	
1,3,5-Trimethylbenzene	ug/L	ND	1.0	12/21/12 21:49	
1,3-Dichlorobenzene	ug/L	ND	1.0	12/21/12 21:49	
1,3-Dichloropropane	ug/L	ND	1.0	12/21/12 21:49	
1,4-Dichlorobenzene	ug/L	ND	1.0	12/21/12 21:49	
2,2-Dichloropropane	ug/L	ND	4.0	12/21/12 21:49	
2-Butanone (MEK)	ug/L	ND	4.0	12/21/12 21:49	
2-Chlorotoluene	ug/L	ND	1.0	12/21/12 21:49	
4-Chlorotoluene	ug/L	ND	1.0	12/21/12 21:49	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	4.0	12/21/12 21:49	
Acetone	ug/L	ND	25.0	12/21/12 21:49	
Allyl chloride	ug/L	ND	4.0	12/21/12 21:49	
Benzene	ug/L	ND	1.0	12/21/12 21:49	
Bromobenzene	ug/L	ND	1.0	12/21/12 21:49	
Bromochloromethane	ug/L	ND	1.0	12/21/12 21:49	
Bromodichloromethane	ug/L	ND	1.0	12/21/12 21:49	
Bromoform	ug/L	ND	4.0	12/21/12 21:49	
Bromomethane	ug/L	ND	4.0	12/21/12 21:49	
Carbon tetrachloride	ug/L	ND	1.0	12/21/12 21:49	
Chlorobenzene	ug/L	ND	1.0	12/21/12 21:49	
Chloroethane	ug/L	ND	1.0	12/21/12 21:49	
Chloroform	ug/L	ND	1.0	12/21/12 21:49	
Chloromethane	ug/L	ND	4.0	12/21/12 21:49	
cis-1,2-Dichloroethene	ug/L	ND	1.0	12/21/12 21:49	
cis-1,3-Dichloropropene	ug/L	ND	4.0	12/21/12 21:49	
Dibromochloromethane	ug/L	ND	1.0	12/21/12 21:49	
Dibromomethane	ug/L	ND	4.0	12/21/12 21:49	

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QUALITY CONTROL DATA

Project: CRC City of Rochester
Pace Project No.: 10216042

METHOD BLANK: 1355990 Matrix: Water

Associated Lab Samples: 10216042013, 10216042014, 10216042015

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Dichlorodifluoromethane	ug/L	ND	1.0	12/21/12 21:49	
Dichlorofluoromethane	ug/L	ND	1.0	12/21/12 21:49	
Diethyl ether (Ethyl ether)	ug/L	ND	4.0	12/21/12 21:49	
Ethylbenzene	ug/L	ND	1.0	12/21/12 21:49	
Hexachloro-1,3-butadiene	ug/L	ND	5.0	12/21/12 21:49	
Isopropylbenzene (Cumene)	ug/L	ND	1.0	12/21/12 21:49	
m&p-Xylene	ug/L	ND	2.0	12/21/12 21:49	
Methyl-tert-butyl ether	ug/L	ND	1.0	12/21/12 21:49	
Methylene Chloride	ug/L	ND	4.0	12/21/12 21:49	
n-Butylbenzene	ug/L	ND	1.0	12/21/12 21:49	
n-Propylbenzene	ug/L	ND	1.0	12/21/12 21:49	
Naphthalene	ug/L	ND	4.0	12/21/12 21:49	
o-Xylene	ug/L	ND	1.0	12/21/12 21:49	
p-Isopropyltoluene	ug/L	ND	1.0	12/21/12 21:49	
sec-Butylbenzene	ug/L	ND	1.0	12/21/12 21:49	
Styrene	ug/L	ND	1.0	12/21/12 21:49	
tert-Butylbenzene	ug/L	ND	1.0	12/21/12 21:49	
Tetrachloroethene	ug/L	ND	1.0	12/21/12 21:49	
Tetrahydrofuran	ug/L	ND	10.0	12/21/12 21:49	
Toluene	ug/L	ND	1.0	12/21/12 21:49	
trans-1,2-Dichloroethene	ug/L	ND	1.0	12/21/12 21:49	
trans-1,3-Dichloropropene	ug/L	ND	4.0	12/21/12 21:49	
Trichloroethene	ug/L	ND	1.0	12/21/12 21:49	
Trichlorofluoromethane	ug/L	ND	1.0	12/21/12 21:49	
Vinyl chloride	ug/L	ND	0.40	12/21/12 21:49	
Xylene (Total)	ug/L	ND	3.0	12/21/12 21:49	
1,2-Dichloroethane-d4 (S)	%	102	75-125	12/21/12 21:49	
4-Bromofluorobenzene (S)	%	100	75-125	12/21/12 21:49	
Dibromofluoromethane (S)	%	102	75-125	12/21/12 21:49	
Toluene-d8 (S)	%	98	75-125	12/21/12 21:49	

LABORATORY CONTROL SAMPLE: 1355991

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	45.0	90	75-125	
1,1,1-Trichloroethane	ug/L	50	45.4	91	73-128	
1,1,2,2-Tetrachloroethane	ug/L	50	45.1	90	75-125	
1,1,2-Trichloroethane	ug/L	50	44.9	90	75-125	
1,1,2-Trichlorotrifluoroethane	ug/L	50	42.0	84	63-125	
1,1-Dichloroethane	ug/L	50	45.3	91	72-126	
1,1-Dichloroethene	ug/L	50	43.7	87	73-129	
1,1-Dichloropropene	ug/L	50	44.9	90	72-128	
1,2,3-Trichlorobenzene	ug/L	50	44.7	89	73-125	
1,2,3-Trichloropropane	ug/L	50	45.8	92	75-125	
1,2,4-Trichlorobenzene	ug/L	50	45.3	91	74-125	

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QUALITY CONTROL DATA

Project: CRC City of Rochester
Pace Project No.: 10216042

LABORATORY CONTROL SAMPLE: 1355991

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,4-Trimethylbenzene	ug/L	50	44.7	89	75-126	
1,2-Dibromo-3-chloropropane	ug/L	50	45.9	92	75-125	
1,2-Dibromoethane (EDB)	ug/L	50	45.4	91	75-125	
1,2-Dichlorobenzene	ug/L	50	44.0	88	75-125	
1,2-Dichloroethane	ug/L	50	44.8	90	75-132	
1,2-Dichloropropane	ug/L	50	44.6	89	75-125	
1,3,5-Trimethylbenzene	ug/L	50	44.5	89	75-126	
1,3-Dichlorobenzene	ug/L	50	43.5	87	75-125	
1,3-Dichloropropane	ug/L	50	44.7	89	75-125	
1,4-Dichlorobenzene	ug/L	50	43.6	87	75-125	
2,2-Dichloropropane	ug/L	50	45.2	90	72-133	
2-Butanone (MEK)	ug/L	50	49.9	100	52-138	
2-Chlorotoluene	ug/L	50	43.7	87	74-125	
4-Chlorotoluene	ug/L	50	44.2	88	75-125	
4-Methyl-2-pentanone (MIBK)	ug/L	50	47.1	94	75-125	
Acetone	ug/L	125	116	93	30-150	
Allyl chloride	ug/L	50	45.3	91	75-132	
Benzene	ug/L	50	44.6	89	75-132	
Bromobenzene	ug/L	50	43.9	88	75-125	
Bromochloromethane	ug/L	50	46.8	94	75-126	
Bromodichloromethane	ug/L	50	45.8	92	75-125	
Bromoform	ug/L	50	46.5	93	75-125	
Bromomethane	ug/L	50	37.5	75	52-150	
Carbon tetrachloride	ug/L	50	45.9	92	73-132	
Chlorobenzene	ug/L	50	43.9	88	75-125	
Chloroethane	ug/L	50	44.7	89	75-143	
Chloroform	ug/L	50	45.5	91	75-128	
Chloromethane	ug/L	50	41.6	83	56-136	
cis-1,2-Dichloroethene	ug/L	50	44.6	89	75-125	
cis-1,3-Dichloropropene	ug/L	50	46.3	93	75-125	
Dibromochloromethane	ug/L	50	46.1	92	75-125	
Dibromomethane	ug/L	50	45.0	90	75-125	
Dichlorodifluoromethane	ug/L	50	39.5	79	50-137	
Dichlorofluoromethane	ug/L	50	44.0	88	68-133	
Diethyl ether (Ethyl ether)	ug/L	50	46.2	92	75-125	
Ethylbenzene	ug/L	50	43.1	86	75-125	
Hexachloro-1,3-butadiene	ug/L	25	22.3	89	57-132	
Isopropylbenzene (Cumene)	ug/L	50	44.4	89	75-125	
m&p-Xylene	ug/L	100	89.8	90	75-125	
Methyl-tert-butyl ether	ug/L	50	45.5	91	74-130	
Methylene Chloride	ug/L	50	42.6	85	62-127	
n-Butylbenzene	ug/L	50	44.4	89	68-128	
n-Propylbenzene	ug/L	50	44.1	88	74-125	
Naphthalene	ug/L	50	46.9	94	75-125	
o-Xylene	ug/L	50	44.6	89	75-125	
p-Isopropyltoluene	ug/L	50	44.1	88	75-125	
sec-Butylbenzene	ug/L	50	44.2	88	71-125	
Styrene	ug/L	50	45.7	91	75-125	

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QUALITY CONTROL DATA

Project: CRC City of Rochester
Pace Project No.: 10216042

LABORATORY CONTROL SAMPLE: 1355991

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
tert-Butylbenzene	ug/L	50	44.4	89	73-125	
Tetrachloroethene	ug/L	50	43.8	88	75-125	
Tetrahydrofuran	ug/L	500	471	94	75-128	
Toluene	ug/L	50	43.8	88	75-125	
trans-1,2-Dichloroethene	ug/L	50	44.7	89	75-125	
trans-1,3-Dichloropropene	ug/L	50	46.0	92	75-125	
Trichloroethene	ug/L	50	44.6	89	75-125	
Trichlorofluoromethane	ug/L	50	43.7	87	64-139	
Vinyl chloride	ug/L	50	44.0	88	75-150	
Xylene (Total)	ug/L	150	134	90	75-125	
1,2-Dichloroethane-d4 (S)	%			99	75-125	
4-Bromofluorobenzene (S)	%			98	75-125	
Dibromofluoromethane (S)	%			102	75-125	
Toluene-d8 (S)	%			99	75-125	

MATRIX SPIKE SAMPLE: 1358191

Parameter	Units	10216027001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	<1.0	50	52.2	104	75-125	
1,1,1-Trichloroethane	ug/L	<1.0	50	55.5	111	75-145	
1,1,2,2-Tetrachloroethane	ug/L	<1.0	50	50.7	101	75-125	
1,1,2-Trichloroethane	ug/L	<1.0	50	51.2	102	75-125	
1,1,2-Trichlorotrifluoroethane	ug/L	<1.0	50	65.5	131	75-150	
1,1-Dichloroethane	ug/L	<1.0	50	52.8	106	75-139	
1,1-Dichloroethene	ug/L	<1.0	50	54.7	109	75-148	
1,1-Dichloropropene	ug/L	<1.0	50	55.2	110	75-148	
1,2,3-Trichlorobenzene	ug/L	<1.0	50	51.6	103	75-127	
1,2,3-Trichloropropane	ug/L	<4.0	50	51.1	102	75-125	
1,2,4-Trichlorobenzene	ug/L	<1.0	50	51.4	103	75-126	
1,2,4-Trimethylbenzene	ug/L	<1.0	50	52.3	105	75-135	
1,2-Dibromo-3-chloropropane	ug/L	<4.0	50	49.0	98	75-125	
1,2-Dibromoethane (EDB)	ug/L	<1.0	50	51.1	102	75-125	
1,2-Dichlorobenzene	ug/L	<1.0	50	50.6	101	75-125	
1,2-Dichloroethane	ug/L	<1.0	50	51.4	103	75-139	
1,2-Dichloropropane	ug/L	<4.0	50	51.8	104	75-131	
1,3,5-Trimethylbenzene	ug/L	<1.0	50	53.1	106	75-134	
1,3-Dichlorobenzene	ug/L	<1.0	50	50.9	102	75-125	
1,3-Dichloropropane	ug/L	<1.0	50	51.2	102	75-127	
1,4-Dichlorobenzene	ug/L	<1.0	50	51.1	102	75-125	
2,2-Dichloropropane	ug/L	<4.0	50	55.4	111	75-150	
2-Butanone (MEK)	ug/L	<4.0	50	51.2	102	50-138	
2-Chlorotoluene	ug/L	<1.0	50	51.0	102	75-134	
4-Chlorotoluene	ug/L	<1.0	50	52.2	104	75-130	
4-Methyl-2-pentanone (MIBK)	ug/L	<4.0	50	51.9	104	75-125	
Acetone	ug/L	<25.0	125	129	104	30-142	
Allyl chloride	ug/L	<4.0	50	56.0	112	75-146	
Benzene	ug/L	<1.0	50	52.3	105	75-146	

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QUALITY CONTROL DATA

Project: CRC City of Rochester
Pace Project No.: 10216042

MATRIX SPIKE SAMPLE: 1358191

Parameter	Units	10216027001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Bromobenzene	ug/L	<1.0	50	51.0	102	75-125	
Bromochloromethane	ug/L	<1.0	50	53.9	108	75-129	
Bromodichloromethane	ug/L	<1.0	50	52.0	104	75-130	
Bromoform	ug/L	<4.0	50	52.5	105	75-125	
Bromomethane	ug/L	<4.0	50	50.8	102	52-150	
Carbon tetrachloride	ug/L	<1.0	50	57.2	114	75-150	
Chlorobenzene	ug/L	<1.0	50	51.2	102	75-127	
Chloroethane	ug/L	<1.0	50	53.5	107	75-146	
Chloroform	ug/L	<1.0	50	53.3	107	75-137	
Chloromethane	ug/L	<4.0	50	51.6	103	64-150	
cis-1,2-Dichloroethene	ug/L	<1.0	50	53.4	107	75-139	
cis-1,3-Dichloropropene	ug/L	<4.0	50	53.0	106	75-129	
Dibromochloromethane	ug/L	<1.0	50	52.8	106	75-125	
Dibromomethane	ug/L	<4.0	50	50.9	102	75-126	
Dichlorodifluoromethane	ug/L	<1.0	50	62.7	125	75-150	
Dichlorofluoromethane	ug/L	<1.0	50	53.6	107	75-143	
Diethyl ether (Ethyl ether)	ug/L	<4.0	50	52.3	105	71-133	
Ethylbenzene	ug/L	<1.0	50	51.2	102	75-132	
Hexachloro-1,3-butadiene	ug/L	<5.0	25	26.2	105	62-147	
Isopropylbenzene (Cumene)	ug/L	<1.0	50	53.3	107	75-135	
m&p-Xylene	ug/L	<2.0	100	106	106	75-131	
Methyl-tert-butyl ether	ug/L	<1.0	50	51.9	104	71-137	
Methylene Chloride	ug/L	<4.0	50	50.1	100	57-134	
n-Butylbenzene	ug/L	<1.0	50	52.8	106	74-139	
n-Propylbenzene	ug/L	<1.0	50	53.2	106	75-137	
Naphthalene	ug/L	<4.0	50	51.9	104	75-129	
o-Xylene	ug/L	<1.0	50	52.5	105	75-128	
p-Isopropyltoluene	ug/L	<1.0	50	53.3	107	75-135	
sec-Butylbenzene	ug/L	<1.0	50	53.7	107	75-137	
Styrene	ug/L	<1.0	50	53.3	107	75-126	
tert-Butylbenzene	ug/L	<1.0	50	52.8	106	75-133	
Tetrachloroethene	ug/L	<1.0	50	53.2	106	75-138	
Tetrahydrofuran	ug/L	<10.0	500	510	102	74-128	
Toluene	ug/L	<1.0	50	51.4	103	75-131	
trans-1,2-Dichloroethene	ug/L	<1.0	50	54.2	108	75-140	
trans-1,3-Dichloropropene	ug/L	<4.0	50	53.3	107	75-129	
Trichloroethene	ug/L	<1.0	50	52.7	105	75-132	
Trichlorofluoromethane	ug/L	<1.0	50	59.5	119	75-150	
Vinyl chloride	ug/L	<0.40	50	55.8	112	75-150	
Xylene (Total)	ug/L	<3.0	150	158	106	75-129	
1,2-Dichloroethane-d4 (S)	%				100	75-125	
4-Bromofluorobenzene (S)	%				100	75-125	
Dibromofluoromethane (S)	%				103	75-125	
Toluene-d8 (S)	%				100	75-125	

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QUALITY CONTROL DATA

Project: CRC City of Rochester
Pace Project No.: 10216042

SAMPLE DUPLICATE: 1358192

Parameter	Units	10216026001 Result	Dup Result	RPD	Max RPD	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	<1.0	ND		30	
1,1,1-Trichloroethane	ug/L	<1.0	ND		30	
1,1,2,2-Tetrachloroethane	ug/L	<1.0	ND		30	
1,1,2-Trichloroethane	ug/L	<1.0	ND		30	
1,1,2-Trichlorotrifluoroethane	ug/L	<1.0	ND		30	
1,1-Dichloroethane	ug/L	<1.0	ND		30	
1,1-Dichloroethene	ug/L	<1.0	ND		30	
1,1-Dichloropropene	ug/L	<1.0	ND		30	
1,2,3-Trichlorobenzene	ug/L	<1.0	ND		30	
1,2,3-Trichloropropane	ug/L	<4.0	ND		30	
1,2,4-Trichlorobenzene	ug/L	<1.0	ND		30	
1,2,4-Trimethylbenzene	ug/L	<1.0	ND		30	
1,2-Dibromo-3-chloropropane	ug/L	<4.0	ND		30	
1,2-Dibromoethane (EDB)	ug/L	<1.0	ND		30	
1,2-Dichlorobenzene	ug/L	<1.0	ND		30	
1,2-Dichloroethane	ug/L	<1.0	ND		30	
1,2-Dichloropropane	ug/L	<4.0	ND		30	
1,3,5-Trimethylbenzene	ug/L	<1.0	ND		30	
1,3-Dichlorobenzene	ug/L	<1.0	ND		30	
1,3-Dichloropropane	ug/L	<1.0	ND		30	
1,4-Dichlorobenzene	ug/L	<1.0	ND		30	
2,2-Dichloropropane	ug/L	<4.0	ND		30	
2-Butanone (MEK)	ug/L	<4.0	ND		30	
2-Chlorotoluene	ug/L	<1.0	ND		30	
4-Chlorotoluene	ug/L	<1.0	ND		30	
4-Methyl-2-pentanone (MIBK)	ug/L	<4.0	ND		30	
Acetone	ug/L	<25.0	ND		30	
Allyl chloride	ug/L	<4.0	ND		30	
Benzene	ug/L	<1.0	ND		30	
Bromobenzene	ug/L	<1.0	ND		30	
Bromochloromethane	ug/L	<1.0	ND		30	
Bromodichloromethane	ug/L	<1.0	ND		30	
Bromoform	ug/L	<4.0	ND		30	
Bromomethane	ug/L	<4.0	ND		30	
Carbon tetrachloride	ug/L	<1.0	ND		30	
Chlorobenzene	ug/L	<1.0	ND		30	
Chloroethane	ug/L	<1.0	ND		30	
Chloroform	ug/L	<1.0	ND		30	
Chloromethane	ug/L	<4.0	ND		30	
cis-1,2-Dichloroethene	ug/L	<1.0	ND		30	
cis-1,3-Dichloropropene	ug/L	<4.0	ND		30	
Dibromochloromethane	ug/L	<1.0	ND		30	
Dibromomethane	ug/L	<4.0	ND		30	
Dichlorodifluoromethane	ug/L	<1.0	ND		30	
Dichlorofluoromethane	ug/L	<1.0	ND		30	
Diethyl ether (Ethyl ether)	ug/L	<4.0	ND		30	
Ethylbenzene	ug/L	<1.0	ND		30	
Hexachloro-1,3-butadiene	ug/L	<5.0	ND		30	

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QUALITY CONTROL DATA

Project: CRC City of Rochester
Pace Project No.: 10216042

SAMPLE DUPLICATE: 1358192

Parameter	Units	10216026001 Result	Dup Result	RPD	Max RPD	Qualifiers
Isopropylbenzene (Cumene)	ug/L	<1.0	ND		30	
m&p-Xylene	ug/L	<2.0	ND		30	
Methyl-tert-butyl ether	ug/L	<1.0	ND		30	
Methylene Chloride	ug/L	<4.0	ND		30	
n-Butylbenzene	ug/L	<1.0	ND		30	
n-Propylbenzene	ug/L	<1.0	ND		30	
Naphthalene	ug/L	<4.0	ND		30	
o-Xylene	ug/L	<1.0	ND		30	
p-Isopropyltoluene	ug/L	<1.0	ND		30	
sec-Butylbenzene	ug/L	<1.0	ND		30	
Styrene	ug/L	<1.0	ND		30	
tert-Butylbenzene	ug/L	<1.0	ND		30	
Tetrachloroethene	ug/L	<1.0	ND		30	
Tetrahydrofuran	ug/L	<10.0	ND		30	
Toluene	ug/L	<1.0	ND		30	
trans-1,2-Dichloroethene	ug/L	<1.0	ND		30	
trans-1,3-Dichloropropene	ug/L	<4.0	ND		30	
Trichloroethene	ug/L	<1.0	ND		30	
Trichlorofluoromethane	ug/L	<1.0	ND		30	
Vinyl chloride	ug/L	<0.40	ND		30	
Xylene (Total)	ug/L	<3.0	ND		30	
1,2-Dichloroethane-d4 (S)	%	102	103	.6		
4-Bromofluorobenzene (S)	%	100	100	.05		
Dibromofluoromethane (S)	%	102	101	1		
Toluene-d8 (S)	%	99	98	.09		

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QUALIFIERS

Project: CRC City of Rochester
Pace Project No.: 10216042

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PRL - Pace Reporting Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: CRC City of Rochester
Pace Project No.: 10216042

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10216042001	DPE-1	EPA 8260	MSV/22524		
10216042002	DPE-2	EPA 8260	MSV/22524		
10216042003	DPE-3	EPA 8260	MSV/22524		
10216042004	DPE-4	EPA 8260	MSV/22524		
10216042005	DPE-5	EPA 8260	MSV/22524		
10216042006	DPE-6	EPA 8260	MSV/22524		
10216042007	DPE-7	EPA 8260	MSV/22524		
10216042008	MW-14	EPA 8260	MSV/22524		
10216042009	MW-15	EPA 8260	MSV/22524		
10216042010	MW-16	EPA 8260	MSV/22524		
10216042011	MW-17	EPA 8260	MSV/22524		
10216042012	MW-18	EPA 8260	MSV/22524		
10216042013	MW-19	EPA 8260	MSV/22528		
10216042014	MW-20	EPA 8260	MSV/22528		
10216042015	Trip Blank	EPA 8260	MSV/22528		

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Pace Analytical™
www.pacelabs.com

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Section A Required Client Information:	Section B Required Project Information:	Section C Invoice Information:
Company: Landmark Environmental	Report To: Jason Skramstad	Attention: Jason Skramstad
Address: 2042 W. 98th Street	Copy To: Eric Gabrielson	Company Name: Landmark Environmental, LLC
Bloomington, MN 55431		Address: 2042 W. 98th St., Bloomington, MN 55431
Email To: jskramstad@landmarkenv.com	Purchase Order No.:	Pace Quote Reference:
Phone: 952-887-9601, ext 205 Fax: 952-887-9605	Project Name: City of Rochester	Pace Project Manager: Carolynne Trout
Requested Due Date/TAT: Normal	Project Number: CRC	Pace Profile #:

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER

☐ UST ☐ RCRA ☐ THER_____

SITE LOCATION ☐ SA ☐ _ ☐ N ☐ ☐ ☐ OH ☐ SC ☐ VI ☐ THER____

Section D Required Client Information

SAMPLE ID

One Character per box. (A-Z, 0-9 / ,-) Samples IDs MUST BE UNIQUE

Valid Matrix Codes

MATRIX	CODE
DRINKING WATER	DW
WATER	WT
WASTE WATER	WW
PRODUCT	P
SOIL/SOLID	SL
OIL	OL WP
WIPE	AR
AIR	OT
OTHER	TS
TISSUE	

ITEM #	SAMPLE ID	MATRIX CODE	SAMPLE TYPE G=GRAB C=COMP	COLLECTED COMPOSITE START DATE	COLLECTED COMPOSITE START TIME	COLLECTED COMPOSITE END/GRAB DATE	COLLECTED COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	#OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Filtered (Y/N)	Requested Analysis: EPA 8260 VOCs	Pace Project Number Lab I.D.
1	MW-14	W	G	12/19/12	10:00				3										X	008
2	MW-15	W	G	12/19/12	10:20				3										X	009
3	MW-16	W	G	12/19/12	13:15				3										X	010
4	MW-17	W	G	12/19/12	11:40				3										X	011
5	MW-18	W	G	12/19/12	11:20				3										X	012
6	MW-19	W	G	12/19/12	9:00				3										X	013
7	MW-20	W	G	12/19/12	12:10				3										X	014
8																				
9																				
10																				
11																				
12																				

Additional Comments:

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
			[signature]	12.20.12	1323	2.0

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Eric Gabrielson

SIGNATURE of SAMPLER: [signature] DATE Signed (MM / DD / YY): 12/20/12

Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
	Y/N	Y/N	Y/N
	Y/N	Y/N	Y/N
	Y/N	Y/N	Y/N

Pace Analytical®	Sample Condition Upon Receipt Form	Page 1 of 1
	Document No.: F-MN-L-213-rev.05	Issuing Authority: Pace Minnesota Quality Office

Sample Condition Upon Receipt

Client Name: landmark

Project #: WO#: 10216042

10216042

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☐ Client ☑ Commercial ☐ Pace ☐ Other: _____

Tracking Number: _____

Custody Seal on Cooler/Box Present? ☐ Yes ☑ No **Seals Intact?** ☐ Yes ☑ No **Optional:** Proj. Due Date: Proj. Name:

Packing Material: ☐ Bubble Wrap ☑ Bubble Bags ☐ None ☐ Other: _____ **Temp Blank?** ☑ Yes ☐ No

Thermometer Used: ☑ B88A912167504 ☐ 80512447 **Type of Ice:** ☑ Wet ☐ Blue ☐ None ☐ Samples on ice, cooling process has begun

Cooler Temp Read (°C): 1.4 **Cooler Temp Corrected (°C):** 2.0 **Biological Tissue Frozen?** ☐ Yes ☐ No

Temp should be above freezing to 6°C

Date and Initials of Person Examining Contents: CS 12.20.12

				Comments:
Chain of Custody Present?	☑ Yes	☐ No	☐ N/A	1.
Chain of Custody Filled Out?	☑ Yes	☐ No	☐ N/A	2.
Chain of Custody Relinquished?	☐ Yes	☑ No	☐ N/A	3.
Sampler Name and/or Signature on COC?	☑ Yes	☐ No	☐ N/A	4.
Samples Arrived within Hold Time?	☑ Yes	☐ No	☐ N/A	5.
Short Hold Time Analysis (<72 hr)?	☐ Yes	☑ No	☐ N/A	6.
Rush Turn Around Time Requested?	☐ Yes	☑ No	☐ N/A	7.
Sufficient Volume?	☑ Yes	☐ No	☐ N/A	8.
Correct Containers Used?	☑ Yes	☐ No	☐ N/A	9.
-Pace Containers Used?	☑ Yes	☐ No	☐ N/A	
Containers Intact?	☑ Yes	☐ No	☐ N/A	10.
Filtered Volume Received for Dissolved Tests?	☐ Yes	☐ No	☑ N/A	11.
Sample Labels Match COC? -Includes Date/Time/ID/Analysis Matrix: WT	☑ Yes	☐ No	☐ N/A	12.
All containers needing acid/base preservation have been checked? Noncompliances are noted in 13.	☐ Yes	☐ No	☑ N/A	13. ☐ HNO_3 ☐ H_2SO_4 ☐ NaOH ☐ HCl Sample #
All containers needing preservation are found to be in compliance with EPA recommendation? (HNO_3, H_2SO_4, HCl<2; NaOH>12)	☐ Yes	☐ No	☑ N/A	
Exceptions: VOA, Coliform, TOC, Oil and Grease, WI-DRO (water)	☑ Yes	☐ No		Initial when completed: CS Lot # of added preservative:
Headspace in VOA Vials (>6mm)?	☐ Yes	☑ No	☐ N/A	14. MW-19 all 3 vials
Trip Blank Present?	☑ Yes	☐ No	☐ N/A	15.
Trip Blank Custody Seals Present?	☑ Yes	☐ No	☐ N/A	2TB
Pace Trip Blank Lot # (if purchased): 120612-1				

CLIENT NOTIFICATION/RESOLUTION **Field Data Required?** ☐ Yes ☐ No

Person Contacted: _____ Date/Time: _____

Comments/Resolution: _____

Project Manager Review: _____ **Date:** 12/21/12

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e out of hold, incorrect preservative, out of temp, incorrect containers)

Attachment C

Minnesota Pollution Control Agency

Petroleum Remediation Program Air Emissions Screening Spreadsheet

Soil Vapor Extraction (SVE) and/or Air Stripper (AS) Data Input Worksheet

Doc Type: Corrective Action Design

MPCA Leak ID: MN BIO BUSINESS CENTER	**Enter SVE Standard Parameters**		**Enter AS Standard Parameters**		
Sample Date: 10/26/2012 [3]	Distance to Nearest Receptor (feet):	33	Distance to Nearest Receptor (feet):	33	
Person Completing Worksheet: KAB	SVE Stack Height (feet):	26.2	Air Stripper Stack Height (feet):	26.2	
Notes: Use this area to provide comments regarding the sampling event, input parameters, etc.	SVE Stack Flow Rate (SCFM[1]):	40	Air Stripper Influent Flow Rate (L/s):	0.133	
	Enter SVE Modeling Parameters (if applicable)		**Enter AS Modeling Parameters (if applicable)**		
	SVE Stack Diameter (inches):		AS Stack Diameter (inches):		
	SVE Stack Exit Velocity[2] (feet per second):		AS Stack Exit Velocity[2] (feet per second):		
	SVE Stack Exit Temperature (°F):		AS Stack Exit Temperature (°F):		
	SVE Annual Dispersion Factor ((µg/m^3)/g/s)	Contact MPCA	AS Annual Dispersion Factor ((µg/m^3)/g/s)	Contact MPCA	
	SVE 1-hr Dispersion Factor ((µg/m^3)/g/s)	Contact MPCA	AS 1-hr Dispersion Factor ((µg/m^3)/g/s)	Contact MPCA	

Chemical Name	CAS #	SVE Emission Concentration (µg/m^3)	SVE Emission Rate (µg/sec)	AS Influent Groundwater Concentration (µg/L)	AS Effluent Groundwater Concentration (µg/L)	Removal Factor (dimension-less)	AS Emission Rate (µg/sec)
Acetone	67-64-1						
Benzene	71-43-2						
Benzyl chloride	100-44-7						
Bromodichloromethane	75-27-4						
Bromoform	75-25-2						
Bromomethane (Methyl bromide)	74-83-9						
1,3-Butadiene	106-99-0						
2-Butanone (Methyl ethyl ketone, MEK)	78-93-3						
Carbon disulfide	75-15-0						
Carbon tetrachloride	56-23-5						
Chlorobenzene	108-90-7						
Chloroethane (Ethyl chloride)	75-00-3						
Chloroform	67-66-3						
Chloromethane (Methyl chloride)	74-87-3						
Cyclohexane	110-82-7						
Dibromochloromethane	124-48-1						
1,2-Dibromoethane (Ethylene dibromide, EDB)	106-93-4						
1,2-Dichlorobenzene	95-50-1						
1,3-Dichlorobenzene	541-73-1						
1,4-Dichlorobenzene	106-46-7						
1,1-Dichloroethane	75-34-3						
1,2-Dichloroethane (DCA)	107-06-2						
1,1-Dichloroethene (DCE)	75-35-4						
cis-1,2-Dichloroethene	156-59-2	370	7				
trans-1,2-Dichloroethene	156-60-5						
Dichlorodifluoromethane (Freon 12)	75-71-8						
1,2-Dichloropropane	78-87-5						
cis-1,3-Dichloropropene	10061-01-5						
trans-1,3-Dichloropropene	10061-02-6						
Dichlorotetrafluoroethane (Freon 114)	76-14-2						
Ethanol	64-17-5	1,960	37				
Ethyl acetate	141-78-6						
Ethylbenzene	100-41-4						
4-Ethyltoluene	622-96-8						
n-Heptane	142-82-5						
Hexachloro-1,3-butadiene	87-68-3						
n-Hexane	110-54-3						
2-Hexanone (Methyl butyl ketone)	591-78-6						
4-Methyl-2-pentanone (Methyl isobutyl ketone, MIBK)	108-10-1						
Methylene chloride (Dichloromethane)	75-09-2						
Methyl-tert-butyl ether (MTBE)	1634-04-4						
Naphthalene	91-20-3						
2-Propanol (Isopropyl alcohol)	67-63-0	218	4				
Propylene (methylethylene or propene)	115-07-1						
Styrene	100-42-5						

Minnesota Pollution Control Agency

Petroleum Remediation Program Air Emissions Screening Spreadsheet

Soil Vapor Extraction (SVE) and/or Air Stripper (AS) Data Input Worksheet

Doc Type: Corrective Action Design

MPCA Leak ID: MN BIO BUSINESS CENTER	**Enter SVE Standard Parameters**		**Enter AS Standard Parameters**		
Sample Date: 10/26/2012 [3]	Distance to Nearest Receptor (feet):	33	Distance to Nearest Receptor (feet):	33	
Person Completing Worksheet: KAB	SVE Stack Height (feet):	26.2	Air Stripper Stack Height (feet):	26.2	
Notes: Use this area to provide comments regarding the sampling event, input parameters, etc.	SVE Stack Flow Rate (SCFM[1]):	40	Air Stripper Influent Flow Rate (L/s):	0.133	
	Enter SVE Modeling Parameters (if applicable)		**Enter AS Modeling Parameters (if applicable)**		
	SVE Stack Diameter (inches):		AS Stack Diameter (inches):		
	SVE Stack Exit Velocity[2] (feet per second):		AS Stack Exit Velocity[2] (feet per second):		
	SVE Stack Exit Temperature (°F):		AS Stack Exit Temperature (°F):		
	SVE Annual Dispersion Factor ((µg/m^3)/g/s)	Contact MPCA	AS Annual Dispersion Factor ((µg/m^3)/g/s)	Contact MPCA	
	SVE 1-hr Dispersion Factor ((µg/m^3)/g/s)	Contact MPCA	AS 1-hr Dispersion Factor ((µg/m^3)/g/s)	Contact MPCA	

Chemical Name	CAS #	SVE Emission Concentration (µg/m^3)	SVE Emission Rate (µg/sec)	AS Influent Groundwater Concentration (µg/L)	AS Effluent Groundwater Concentration (µg/L)	Removal Factor (dimension-less)	AS Emission Rate (µg/sec)
1,1,2,2-Tetrachloroethane	79-34-5						
Tetrachloroethylene (PCE)	127-18-4	664,000	12,535	36	2	0.96	5
Tetrahydrofuran	109-99-9						
Toluene (Methylbenzene)	108-88-3						
1,2,4-Trichlorobenzene	120-82-1						
1,1,1-Trichloroethane (Methyl chloroform)	71-55-6						
1,1,2-Trichloroethane	79-00-5						
Trichloroethylene (TCE)	79-01-6						
Trichlorofluoromethane (Freon 11)	75-69-4						
Trichlorotrifluoroethane (Freon 113)	76-13-1	433,000	8,174				
1,2,4-Trimethylbenzene	95-63-6						
1,3,5-Trimethylbenzene	108-67-8						
Vinyl acetate	108-05-4						
Vinyl chloride	75-01-4						
m&p-Xylene	108-38-3						
o-Xylene	95-47-6						

[1]SCFM = standard cubic feet per minute based on a standard temperature of 77° F (25° C, 298.15 K) and a standard pressure of 1 atmosphere (14.7 pounds per square inch, 29.92 inches of mercury, 760 millimeters of mercury).

[2]Provide stack exit velocity for actual exit conditions (i.e., at the actual temperature and pressure of the air being discharged).

[3]: Landmark believes the October 26,2012, emissions results from Pace Analytical are suspect and are outliers from previous concentration trends

Minnesota Pollution Control Agency

Petroleum Remediation Program Air Emissions Screening Spreadsheet

Soil Vapor Extraction and/or Air Stripper Risk Evaluation Worksheet

Doc Type: Corrective Action Design

MPCA Leak ID: MN BIO BUSINESS CENTER
Sample Date: 10/26/2012 [3]
Person Completing Worksheet: KAB

Chemical Name	CAS #	Acute Mixtures Evaluation				Chronic Noncancer Mixtures Evaluation									Excess Lifetime Cancer Risk (guideline value = 1E-5)
		Acute Hazard Quotient	CNS	IRRIT	REPRO	Chronic Noncancer Hazard Quotient	CNS	CV/BLD	IMMUN	KIDN	LIVER/GI	REPRO	RESP	WHOLE BODY	
Acetone	67-64-1														
Benzene	71-43-2														
Benzyl chloride	100-44-7														
Bromodichloromethane	75-27-4														
Bromoform	75-25-2														
Bromomethane (Methyl bromide)	74-83-9														
1,3-Butadiene	106-99-0														
2-Butanone (Methyl ethyl ketone, MEK)	78-93-3														
Carbon disulfide	75-15-0														
Carbon tetrachloride	56-23-5														
Chlorobenzene	108-90-7														
Chloroethane (Ethyl chloride)	75-00-3														
Chloroform	67-66-3														
Chloromethane (Methyl chloride)	74-87-3														
Cyclohexane	110-82-7														
Dibromochloromethane	124-48-1														
1,2-Dibromoethane (Ethylene dibromide, EDB)	106-93-4														
1,2-Dichlorobenzene	95-50-1														
1,3-Dichlorobenzene	541-73-1														
1,4-Dichlorobenzene	106-46-7														
1,1-Dichloroethane	75-34-3														
1,2-Dichloroethane (DCA)	107-06-2														
1,1-Dichloroethene (DCE)	75-35-4														
cis-1,2-Dichloroethene	156-59-2														
trans-1,2-Dichloroethene	156-60-5														
Dichlorodifluoromethane (Freon 12)	75-71-8														
1,2-Dichloropropane	78-87-5														
cis-1,3-Dichloropropene*	10061-01-5														
trans-1,3-Dichloropropene*	10061-02-6														
Dichlorotetrafluoroethane (Freon 114)	76-14-2														
Ethanol	64-17-5	0.0		0.0		0.0							0.0		
Ethyl acetate	141-78-6														
Ethylbenzene	100-41-4														
4-Ethyltoluene	622-96-8														
n-Heptane	142-82-5														
Hexachloro-1,3-butadiene	87-68-3														
n-Hexane	110-54-3														
2-Hexanone (Methyl butyl ketone)	591-78-6														
4-Methyl-2-pentanone (Methyl isobutyl ketone, MIBK)	108-10-1														
Methylene chloride (Dichloromethane)	75-09-2														
Methyl-tert-butyl ether (MTBE)	1634-04-4														
Naphthalene	91-20-3														
2-Propanol (Isopropyl alcohol)	67-63-0	0.0		0.0		0.0				0.0		0.0			
Propylene (methylethylene or propene)	115-07-1														
Styrene	100-42-5														
1,1,2,2-Tetrachloroethane	79-34-5														
Tetrachloroethylene (PCE)	127-18-4	0.0	0.0	0.0		0.2	0.2								**1E-05**
Tetrahydrofuran	109-99-9														

Minnesota Pollution Control Agency

Petroleum Remediation Program Air Emissions Screening Spreadsheet

Soil Vapor Extraction and/or Air Stripper Risk Evaluation Worksheet

Doc Type: Corrective Action Design

MPCA Leak ID: MN BIO BUSINESS CENTER
Sample Date: 10/26/2012 [3]
Person Completing Worksheet: KAB

Chemical Name	CAS #	Acute Mixtures Evaluation				Chronic Noncancer Mixtures Evaluation									Excess Lifetime Cancer Risk (guideline value = 1E-5)
		Acute Hazard Quotient	CNS	IRRIT	REPRO	Chronic Noncancer Hazard Quotient	CNS	CV/BLD	IMMUN	KIDN	LIVER/GI	REPRO	RESP	WHOLE BODY	
Toluene (Methylbenzene)	108-88-3														
1,2,4-Trichlorobenzene	120-82-1														
1,1,1-Trichloroethane (Methyl chloroform)	71-55-6														
1,1,2-Trichloroethane	79-00-5														
Trichloroethylene (TCE)	79-01-6														
Trichlorofluoromethane (Freon 11)	75-69-4														
Trichlorotrifluoroethane (Freon 113)	76-13-1					0.0								0.0	
1,2,4-Trimethylbenzene	95-63-6														
1,3,5-Trimethylbenzene	108-67-8														
Vinyl acetate	108-05-4														
Vinyl chloride	75-01-4														
m&p-Xylene**	108-38-3														
o-Xylene**	95-47-6														
Hazard Index:			0.0	0.0	0.0		0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	**1.0E-05**

NOTES:

* based on 1,3-Dichloropropene (CAS # 542-75-6)
** based on total Xylenes (CAS # 1330-20-7)

[3]: Landmark believes the October 26,2012, emissions results from Pace Analytical are suspect and are outliers from previous concentration trends

In general, total excess lifetime cancer risk is not to exceed 1E-5 and a hazard index (or chemical-specific hazard quotient) is not to exceed 1. The additive results are shown with one decimal point, which is intended to show transparency with the addition of risk but not to imply a level of precision greater than one significant figure. Risk managers may want to round to one significant figure when comparing to a cancer risk of 1E-5 or a hazard index of 1. Exceedance of these levels, which are bolded in text when met or exceeded, may require air emission controls.

CNS = Central Nervous System
CV/BLD = Cardiovascular or Blood System
IMMUN = Immune System
IRRIT = Irritant (nasal, eye, throat irritation)
KIDN = Kidney
LIVER/GI = Liver/Gastrointestinal
REPRO = Reproductive System, including developmental effects
RESP = Respiratory System

Minnesota Pollution Control Agency

Petroleum Remediation Program Air Emissions Screening Spreadsheet

Soil Vapor Extraction (SVE) and/or Air Stripper (AS) Data Input Worksheet

Doc Type: Corrective Action Design

MPCA Leak ID: MN BIO BUSINESS CENTER	**Enter SVE Standard Parameters**		**Enter AS Standard Parameters**		
Sample Date: 12/21/2012	Distance to Nearest Receptor (feet):	33	Distance to Nearest Receptor (feet):	33	
Person Completing Worksheet: KAB	SVE Stack Height (feet):	26.2	Air Stripper Stack Height (feet):	26.2	
Notes: Use this area to provide comments regarding the sampling event, input parameters, etc.	SVE Stack Flow Rate (SCFM[1]):	48	Air Stripper Influent Flow Rate (L/s):	0.203	
	Enter SVE Modeling Parameters (if applicable)		**Enter AS Modeling Parameters (if applicable)**		
	SVE Stack Diameter (inches):		AS Stack Diameter (inches):		
	SVE Stack Exit Velocity[2] (feet per second):		AS Stack Exit Velocity[2] (feet per second):		
	SVE Stack Exit Temperature (°F):		AS Stack Exit Temperature (°F):		
	SVE Annual Dispersion Factor ((µg/m^3)/g/s)	Contact MPCA	AS Annual Dispersion Factor ((µg/m^3)/g/s)	Contact MPCA	
	SVE 1-hr Dispersion Factor ((µg/m^3)/g/s)	Contact MPCA	AS 1-hr Dispersion Factor ((µg/m^3)/g/s)	Contact MPCA	

Chemical Name	CAS #	SVE Emission Concentration (µg/m^3)	SVE Emission Rate (µg/sec)	AS Influent Groundwater Concentration (µg/L)	AS Effluent Groundwater Concentration (µg/L)	Removal Factor (dimension-less)	AS Emission Rate (µg/sec)
Acetone	67-64-1						
Benzene	71-43-2						
Benzyl chloride	100-44-7						
Bromodichloromethane	75-27-4						
Bromoform	75-25-2						
Bromomethane (Methyl bromide)	74-83-9						
1,3-Butadiene	106-99-0						
2-Butanone (Methyl ethyl ketone, MEK)	78-93-3			5			
Carbon disulfide	75-15-0						
Carbon tetrachloride	56-23-5						
Chlorobenzene	108-90-7						
Chloroethane (Ethyl chloride)	75-00-3						
Chloroform	67-66-3						
Chloromethane (Methyl chloride)	74-87-3						
Cyclohexane	110-82-7						
Dibromochloromethane	124-48-1						
1,2-Dibromoethane (Ethylene dibromide, EDB)	106-93-4						
1,2-Dichlorobenzene	95-50-1						
1,3-Dichlorobenzene	541-73-1						
1,4-Dichlorobenzene	106-46-7						
1,1-Dichloroethane	75-34-3						
1,2-Dichloroethane (DCA)	107-06-2						
1,1-Dichloroethene (DCE)	75-35-4						
cis-1,2-Dichloroethene	156-59-2						
trans-1,2-Dichloroethene	156-60-5						
Dichlorodifluoromethane (Freon 12)	75-71-8						
1,2-Dichloropropane	78-87-5						
cis-1,3-Dichloropropene	10061-01-5						
trans-1,3-Dichloropropene	10061-02-6						
Dichlorotetrafluoroethane (Freon 114)	76-14-2						
Ethanol	64-17-5						
Ethyl acetate	141-78-6						
Ethylbenzene	100-41-4						
4-Ethyltoluene	622-96-8						
n-Heptane	142-82-5						
Hexachloro-1,3-butadiene	87-68-3						
n-Hexane	110-54-3						
2-Hexanone (Methyl butyl ketone)	591-78-6						
4-Methyl-2-pentanone (Methyl isobutyl ketone, MIBK)	108-10-1						
Methylene chloride (Dichloromethane)	75-09-2						
Methyl-tert-butyl ether (MTBE)	1634-04-4						
Naphthalene	91-20-3						
2-Propanol (Isopropyl alcohol)	67-63-0						

Minnesota Pollution Control Agency

Petroleum Remediation Program Air Emissions Screening Spreadsheet

Soil Vapor Extraction (SVE) and/or Air Stripper (AS) Data Input Worksheet

Doc Type: Corrective Action Design

MPCA Leak ID: MN BIO BUSINESS CENTER	**Enter SVE Standard Parameters**		**Enter AS Standard Parameters**		
Sample Date: 12/21/2012	Distance to Nearest Receptor (feet):	33	Distance to Nearest Receptor (feet):	33	
Person Completing Worksheet: KAB	SVE Stack Height (feet):	26.2	Air Stripper Stack Height (feet):	26.2	
Notes: Use this area to provide comments regarding the sampling event, input parameters, etc.	SVE Stack Flow Rate (SCFM[1]):	48	Air Stripper Influent Flow Rate (L/s):	0.203	
	Enter SVE Modeling Parameters (if applicable)		**Enter AS Modeling Parameters (if applicable)**		
	SVE Stack Diameter (inches):		AS Stack Diameter (inches):		
	SVE Stack Exit Velocity[2] (feet per second):		AS Stack Exit Velocity[2] (feet per second):		
	SVE Stack Exit Temperature (°F):		AS Stack Exit Temperature (°F):		
	SVE Annual Dispersion Factor ((µg/m^3)/g/s)	Contact MPCA	AS Annual Dispersion Factor ((µg/m^3)/g/s)	Contact MPCA	
	SVE 1-hr Dispersion Factor ((µg/m^3)/g/s)	Contact MPCA	AS 1-hr Dispersion Factor ((µg/m^3)/g/s)	Contact MPCA	

Chemical Name	CAS #	SVE Emission Concentration (µg/m^3)	SVE Emission Rate (µg/sec)	AS Influent Groundwater Concentration (µg/L)	AS Effluent Groundwater Concentration (µg/L)	Removal Factor (dimension-less)	AS Emission Rate (µg/sec)
Propylene (methylethylene or propene)	115-07-1						
Styrene	100-42-5						
1,1,2,2-Tetrachloroethane	79-34-5						
Tetrachloroethylene (PCE)	127-18-4	358,000	8,127	72	8	0.90	13
Tetrahydrofuran	109-99-9			15			
Toluene (Methylbenzene)	108-88-3						
1,2,4-Trichlorobenzene	120-82-1						
1,1,1-Trichloroethane (Methyl chloroform)	71-55-6						
1,1,2-Trichloroethane	79-00-5						
Trichloroethylene (TCE)	79-01-6						
Trichlorofluoromethane (Freon 11)	75-69-4						
Trichlorotrifluoroethane (Freon 113)	76-13-1	89,600	2,034				
1,2,4-Trimethylbenzene	95-63-6						
1,3,5-Trimethylbenzene	108-67-8						
Vinyl acetate	108-05-4						
Vinyl chloride	75-01-4						
m&p-Xylene	108-38-3						
o-Xylene	95-47-6						

[1]SCFM = standard cubic feet per minute based on a standard temperature of 77° F (25° C, 298.15 K) and a standard pressure of 1 atmosphere (14.7 pounds per square inch, 29.92 inches of mercury, 760 millimeters of mercury).

[2]Provide stack exit velocity for actual exit conditions (i.e., at the actual temperature and pressure of the air being discharged).

Minnesota Pollution Control Agency

Petroleum Remediation Program Air Emissions Screening Spreadsheet

Soil Vapor Extraction and/or Air Stripper Risk Evaluation Worksheet

Doc Type: Corrective Action Design

MPCA Leak ID: MN BIO BUSINESS CENTER
Sample Date: 10/26/2012
Person Completing Worksheet: KAB

Chemical Name	CAS #	Acute Mixtures Evaluation				Chronic Noncancer Mixtures Evaluation									Excess Lifetime Cancer Risk (guideline value = 1E-5)
		Acute Hazard Quotient	CNS	IRRIT	REPRO	Chronic Noncancer Hazard Quotient	CNS	CV/BLD	IMMUN	KIDN	LIVER/GI	REPRO	RESP	WHOLE BODY	
Acetone	67-64-1														
Benzene	71-43-2														
Benzyl chloride	100-44-7														
Bromodichloromethane	75-27-4														
Bromoform	75-25-2														
Bromomethane (Methyl bromide)	74-83-9														
1,3-Butadiene	106-99-0														
2-Butanone (Methyl ethyl ketone, MEK)	78-93-3														
Carbon disulfide	75-15-0														
Carbon tetrachloride	56-23-5														
Chlorobenzene	108-90-7														
Chloroethane (Ethyl chloride)	75-00-3														
Chloroform	67-66-3														
Chloromethane (Methyl chloride)	74-87-3														
Cyclohexane	110-82-7														
Dibromochloromethane	124-48-1														
1,2-Dibromoethane (Ethylene dibromide, EDB)	106-93-4														
1,2-Dichlorobenzene	95-50-1														
1,3-Dichlorobenzene	541-73-1														
1,4-Dichlorobenzene	106-46-7														
1,1-Dichloroethane	75-34-3														
1,2-Dichloroethane (DCA)	107-06-2														
1,1-Dichloroethene (DCE)	75-35-4														
cis-1,2-Dichloroethene	156-59-2														
trans-1,2-Dichloroethene	156-60-5														
Dichlorodifluoromethane (Freon 12)	75-71-8														
1,2-Dichloropropane	78-87-5														
cis-1,3-Dichloropropene*	10061-01-5														
trans-1,3-Dichloropropene*	10061-02-6														
Dichlorotetrafluoroethane (Freon 114)	76-14-2														
Ethanol	64-17-5														
Ethyl acetate	141-78-6														
Ethylbenzene	100-41-4														
4-Ethyltoluene	622-96-8														
n-Heptane	142-82-5														
Hexachloro-1,3-butadiene	87-68-3														
n-Hexane	110-54-3														
2-Hexanone (Methyl butyl ketone)	591-78-6														
4-Methyl-2-pentanone (Methyl isobutyl ketone, MIBK)	108-10-1														
Methylene chloride (Dichloromethane)	75-09-2														
Methyl-tert-butyl ether (MTBE)	1634-04-4														
Naphthalene	91-20-3														
2-Propanol (Isopropyl alcohol)	67-63-0														
Propylene (methylethylene or propene)	115-07-1														
Styrene	100-42-5														
1,1,2,2-Tetrachloroethane	79-34-5														
Tetrachloroethylene (PCE)	127-18-4	0.0	0.0	0.0		0.1	0.1								7E-06
Tetrahydrofuran	109-99-9														

Minnesota Pollution Control Agency

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		Acute Hazard Quotient	CNS	IRRIT	REPRO	Chronic Noncancer Hazard Quotient	CNS	CV/BLD	IMMUN	KIDN	LIVER/GI	REPRO	RESP	WHOLE BODY	
Toluene (Methylbenzene)	108-88-3														
1,2,4-Trichlorobenzene	120-82-1														
1,1,1-Trichloroethane (Methyl chloroform)	71-55-6														
1,1,2-Trichloroethane	79-00-5														
Trichloroethylene (TCE)	79-01-6														
Trichlorofluoromethane (Freon 11)	75-69-4														
Trichlorotrifluoroethane (Freon 113)	76-13-1					0.0								0.0	
1,2,4-Trimethylbenzene	95-63-6														
1,3,5-Trimethylbenzene	108-67-8														
Vinyl acetate	108-05-4														
Vinyl chloride	75-01-4														
m&p-Xylene**	108-38-3														
o-Xylene**	95-47-6														
Hazard Index:			0.0	0.0	0.0		0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.5E-06

NOTES:

* based on 1,3-Dichloropropene (CAS # 542-75-6)
** based on total Xylenes (CAS # 1330-20-7)

In general, total excess lifetime cancer risk is not to exceed 1E-5 and a hazard index (or chemical-specific hazard quotient) is not to exceed 1. The additive results are shown with one decimal point, which is intended to show transparency with the addition of risk but not to imply a level of precision greater than one significant figure. Risk managers may want to round to one significant figure when comparing to a cancer risk of 1E-5 or a hazard index of 1. Exceedance of these levels, which are bolded in text when met or exceeded, may require air emission controls.

CNS = Central Nervous System
CV/BLD = Cardiovascular or Blood System
IMMUN = Immune System
IRRIT = Irritant (nasal, eye, throat irritation)
KIDN = Kidney
LIVER/GI = Liver/Gastrointestinal
REPRO = Reproductive System, including developmental effects
RESP = Respiratory System