

May 3, 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**. This report documents the monthly DPE system operational and analytical data from the January 30, 2013 to March 21, 2013 monitoring events, as well as quarterly groundwater monitoring data from samples collected on February 25, 2013.

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 operated 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.

After approximately 3 months of focused DPE system operation at DPE-3, the MPCA approved the temporary shut-down of the DPE system based on low concentrations of PCE observed in the groundwater and DPE system emissions. The DPE system was shut down from October 26 through December 21, 2012, a total of 56 days, to evaluate the rebound of PCE concentrations in the groundwater and DPE system emissions. PCE concentrations in the groundwater and DPE system emissions were observed in the December 21, 2012, sampling results. Therefore, the DPE system was kept on after being

restarted on December 21. Based on groundwater PCE 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.

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

When comparing the March 21, concentrations to the baseline emissions data from April 9, 2009, the total volatile organic compound (VOC) concentration has decreased from 14,613,880 micrograms per cubic meter (ug/m^3) to 51,872 ug/m^3 , a decrease of 99.6 percent (See **Figures 4A and 4B**, and **Tables 2 and 3**). PCE concentrations decreased from 11,600,000 ug/m^3 to 17,500 ug/m^3 , a decrease of 99.8 percent from the baseline concentration (See **Figures 4A and 4B**, and **Tables 2 and 3**). The PCE concentrations from the March 21, 2013, sampling events decreased from the January 31, 2013, concentrations as shown in **Figure 4B**.

On January 23, 2013, the DPE system operational configuration was switched to focus on DPE-1, DPE-2, DPE-3, and DPE-4. From January 30, 2013, through March 21, 2013, the total VOC and PCE emissions concentrations decreased from 475,000 ug/m^3 to 51,872 ug/m^3 and 348,000 ug/m^3 to 17,500 ug/m^3 , respectively.

During this reporting period, the DPE system removed approximately 52.14 pounds of total VOCs, including approximately 36.13 pounds of PCE, from January 30, through March 21, 2013 (see **Figure 5** and **Table 2**). Through March 21, 2013, the DPE system has removed a total of 3,685.18 pounds of total VOCs and 2,779.93 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 January 30, 2013 through March 21, 2013, were below the MPCA screening emissions rate (SER) for chronic risk of 16,300 micrograms per second (ug/s), and for acute risk of 5,980,000 ug/s . 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 March 21, 2013 was 0.63 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 generally showed a decreasing trend from January 30, 2013 through March 21, 2013 (see **Figures 6, 7, and 8**). The groundwater elevation data is provided in **Table 7**. Well construction information is provided in **Table 8**.

Groundwater Monitoring Results

Quarterly groundwater sampling was conducted on February 25, 2013. 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 (100.0%), MW-15 (100.0%), MW-16 (99.9%), MW-17 (86.3%), MW-18 (99.1%), MW-19 (100.0%), MW-20 (91.6%), DPE-1 (99.9%), DPE-2 (99.6%), DPE-3 (99.8%), DPE-4 (99.4%), DPE-5 (97.7%), DPE-6 (99.0%) and DPE-7 (64.1%). DPE-8 was not sampled during the February 25, monitoring event because the well was dry and would not generate any groundwater. Increased concentrations of PCE, when compared to the December 19, 2012 groundwater data were observed at MW-17, MW-18, MW-20 and DPE-7. **Figure 10** shows the iso-concentration contour map for PCE during the February 25, 2013, 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:

- The DPE system is operating as designed and has removed a significant amount of VOCs since system startup in June 2009.
- Through March 21, 2013, the DPE system removed 3,685.18 pounds of total VOCs, including 2,779.93 pounds of PCE from the subsurface.
- When comparing the March 21, 2013, concentrations to the baseline emissions data from April 9, 2009, the total VOC and PCE concentrations have decreased 99.6 percent and 99.8 percent, respectively.
- The DPE system removed 52.14 pounds of total VOCs, including approximately 36.13 pounds from PCE, from January 30, through March 21, 2013.
- During this reporting period, the site specific emissions rates for PCE were below the MPCA's PR Program acute and chronic emissions criteria.

- The DPE system has continued to effectively lower the groundwater elevations on the Property, while increasing the mass of VOCs and PCE removed.
- DPE system operation has effectively decreased the concentrations of PCE in the groundwater at the following wells: MW-14 (100.0%), MW-15 (100.0%), MW-16 (99.9%), MW-17 (86.3%), MW-18 (99.1%), MW-19 (100.0%), MW-20 (91.6%), DPE-1 (99.9%), DPE-2 (99.6%), DPE-3 (99.8%), DPE-4 (99.4%), DPE-5 (97.7%), DPE-6 (99.0%) and DPE-7 (64.1%).

Recommendations

After switching the DPE system operational configuration to focus on DPE-1, DPE-2, DPE-3, and DPE-4, on January 23, 2013, the PCE emissions concentrations decreased to asymptotic levels by March 21, 2013. From January 30, 2013, through March 21, 2013, the total VOC and PCE emissions concentrations decreased from 475,000 ug/m³ to 51,872 ug/m³ and 348,000 ug/m³ to 17,500 ug/m³, respectively.

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. From January 30, 2013, through March 21, 2013, emissions VOC concentrations reached levels observed prior to the October 26, 2012, sampling event; therefore, the DPE system was temporarily shut down on April 4, 2013, to conduct a DPE shutdown period to evaluate the rebound in emissions and groundwater concentrations.

The DPE system operational and groundwater results will be evaluated after resampling the system to determine if continued DPE system operation is necessary or if the system can be permanently shut down and replaced by operation of the passive venting system.

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.

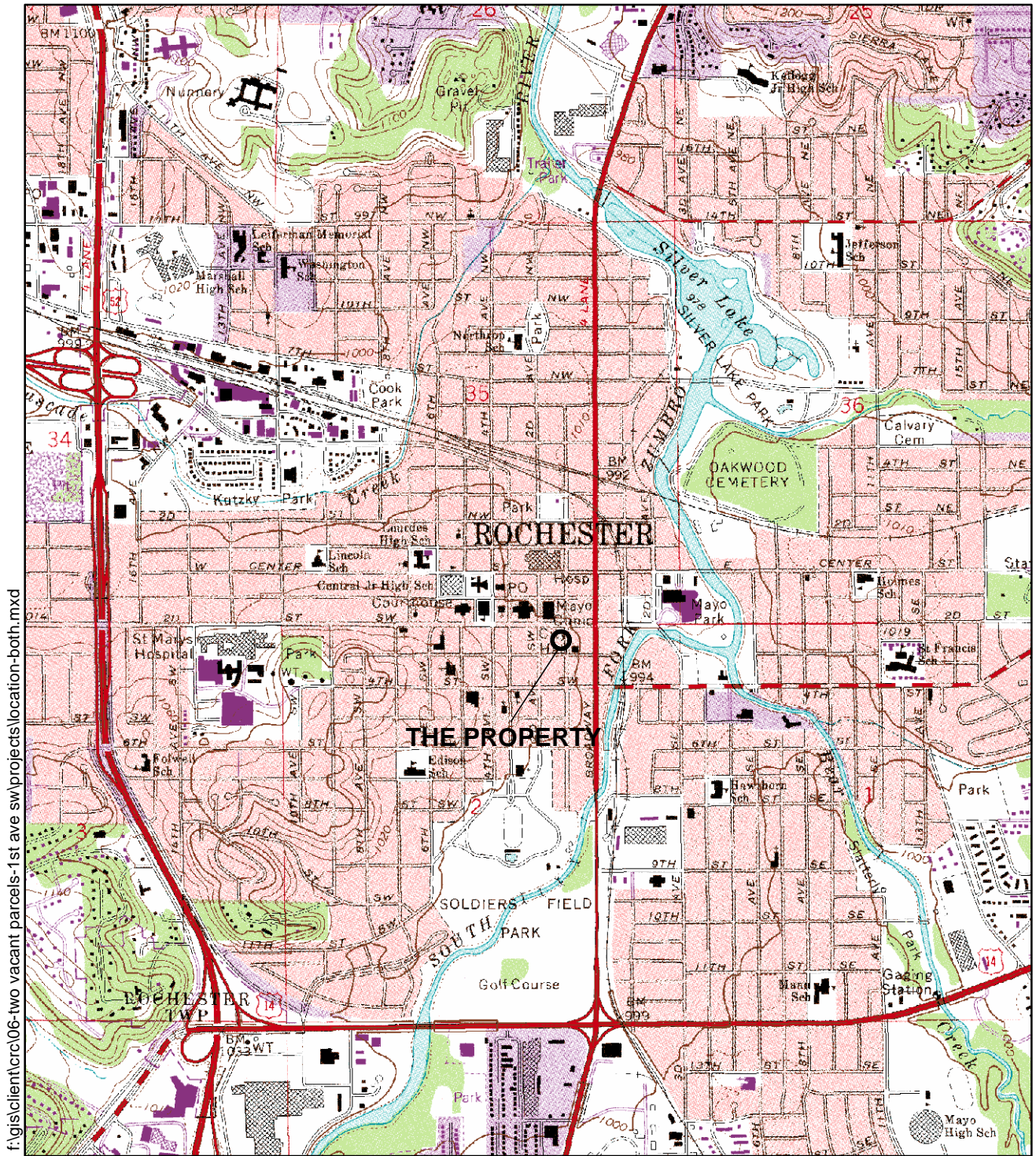
Sincerely,



Jason D. Skramstad, P.E.

Cc: Terry Spaeth, City of Rochester

Figures



f:\gisclient\c06-two vacant parcels-1st ave sw\projects\location-both.mxd

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

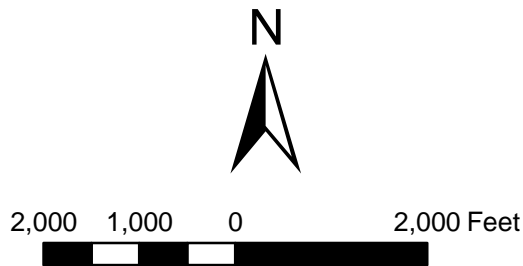
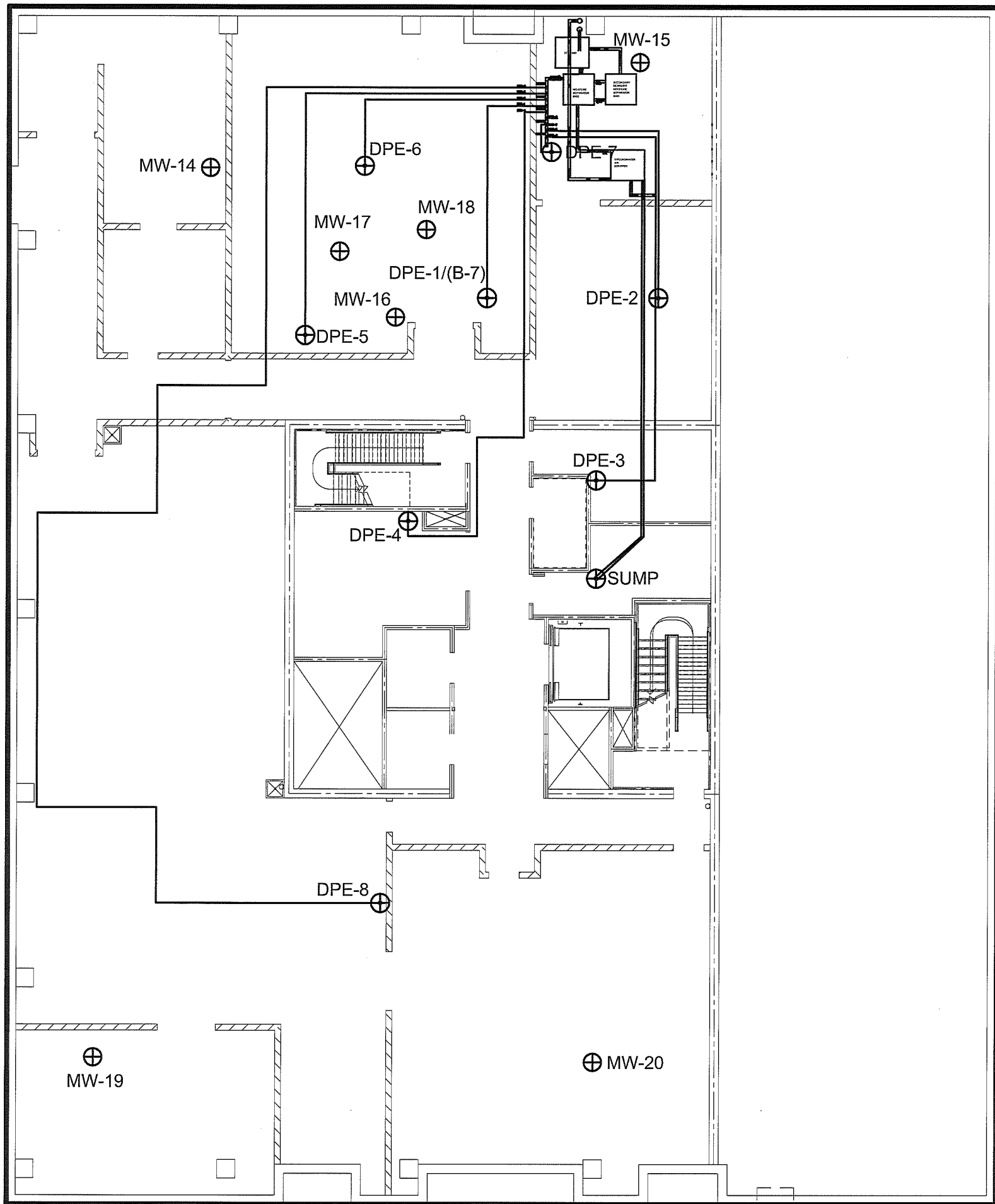


FIGURE 1

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



20 feet
SCALE

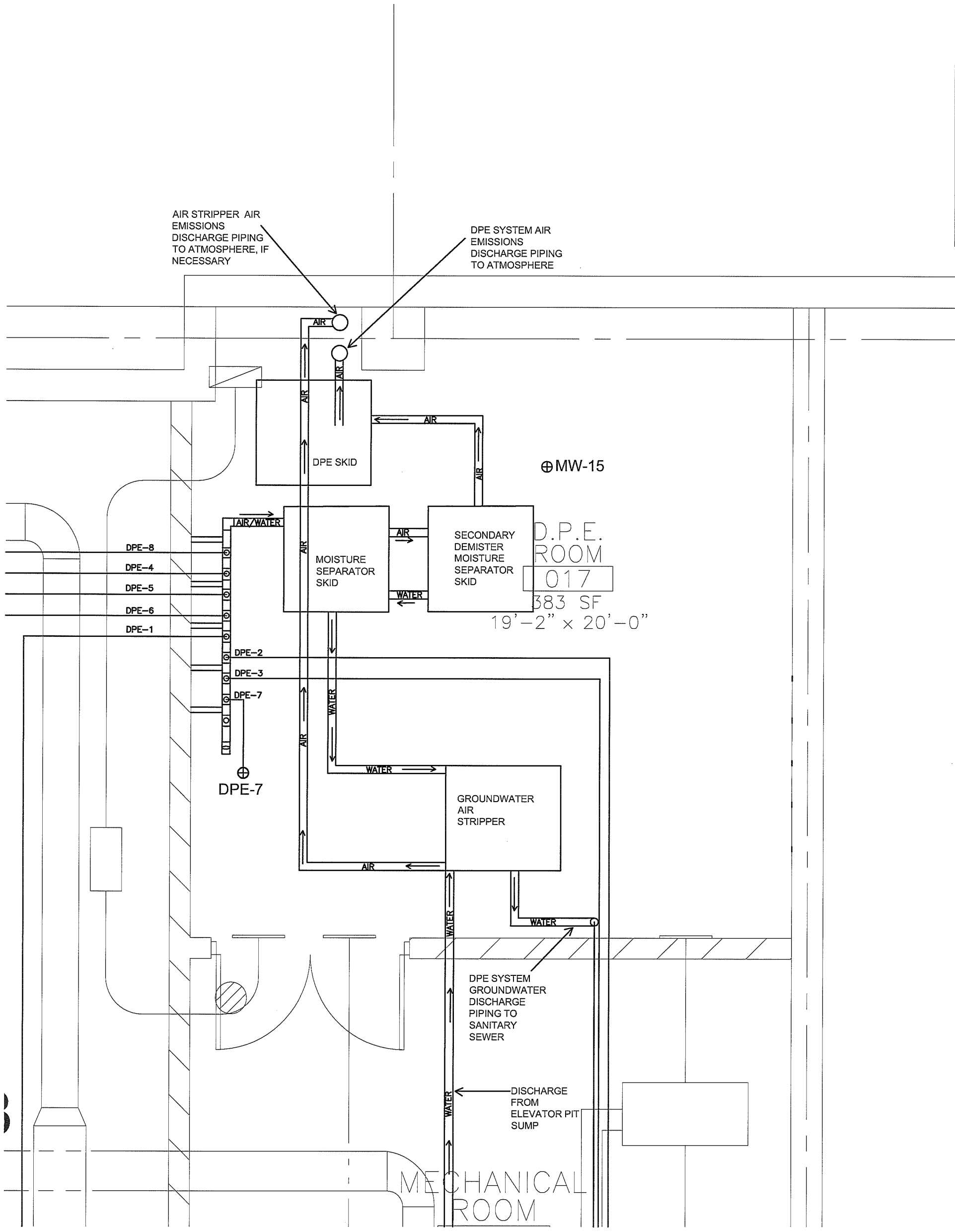
BASE DRAWINGS PROVIDED BY HGA
F:/Projects/CRC/CAD/basement planview\DPE AS Layout.dwg

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
-  Proposed Air Emissions Piping Location
-  Proposed Groundwater Discharge Piping Location



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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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

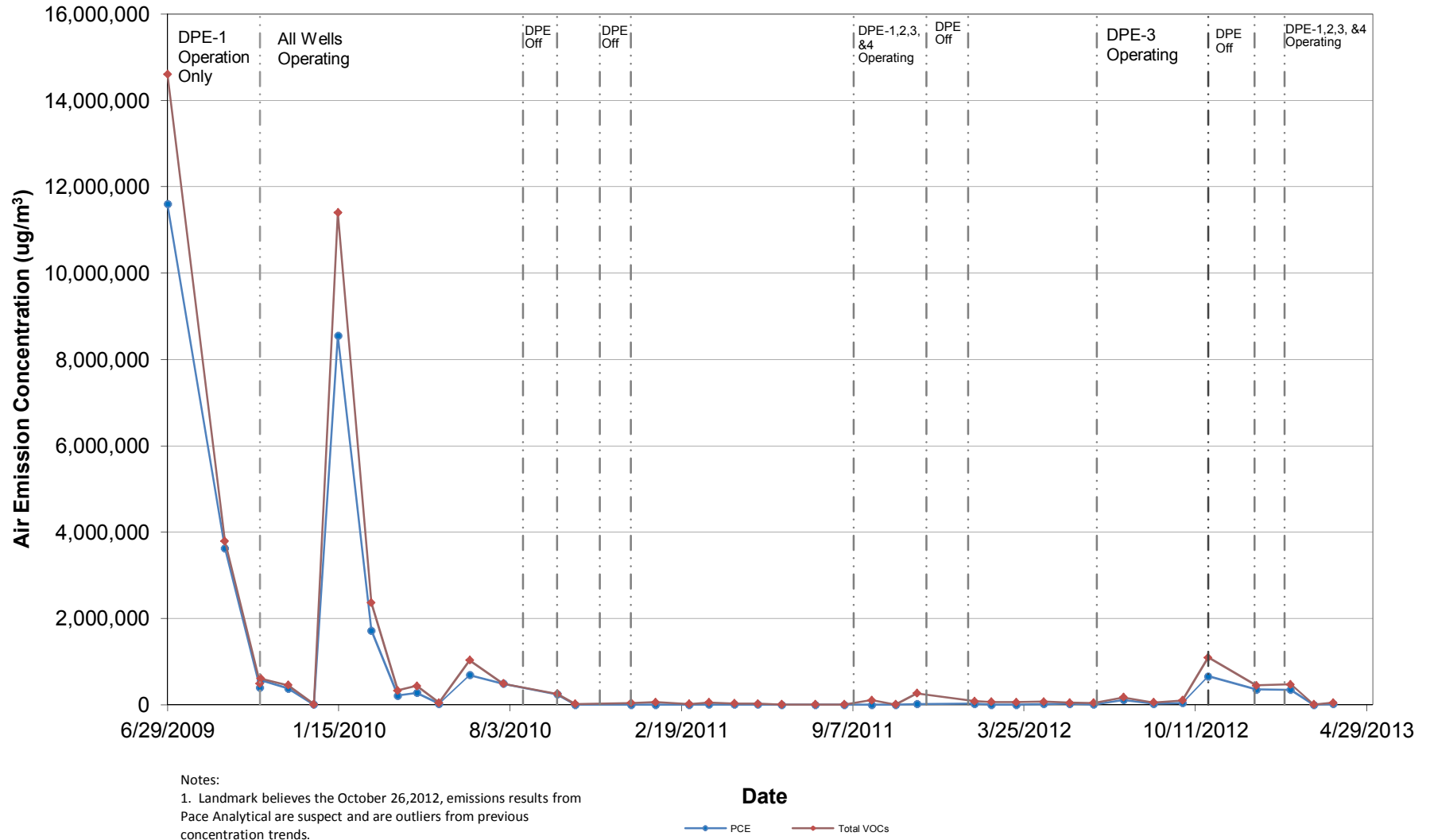
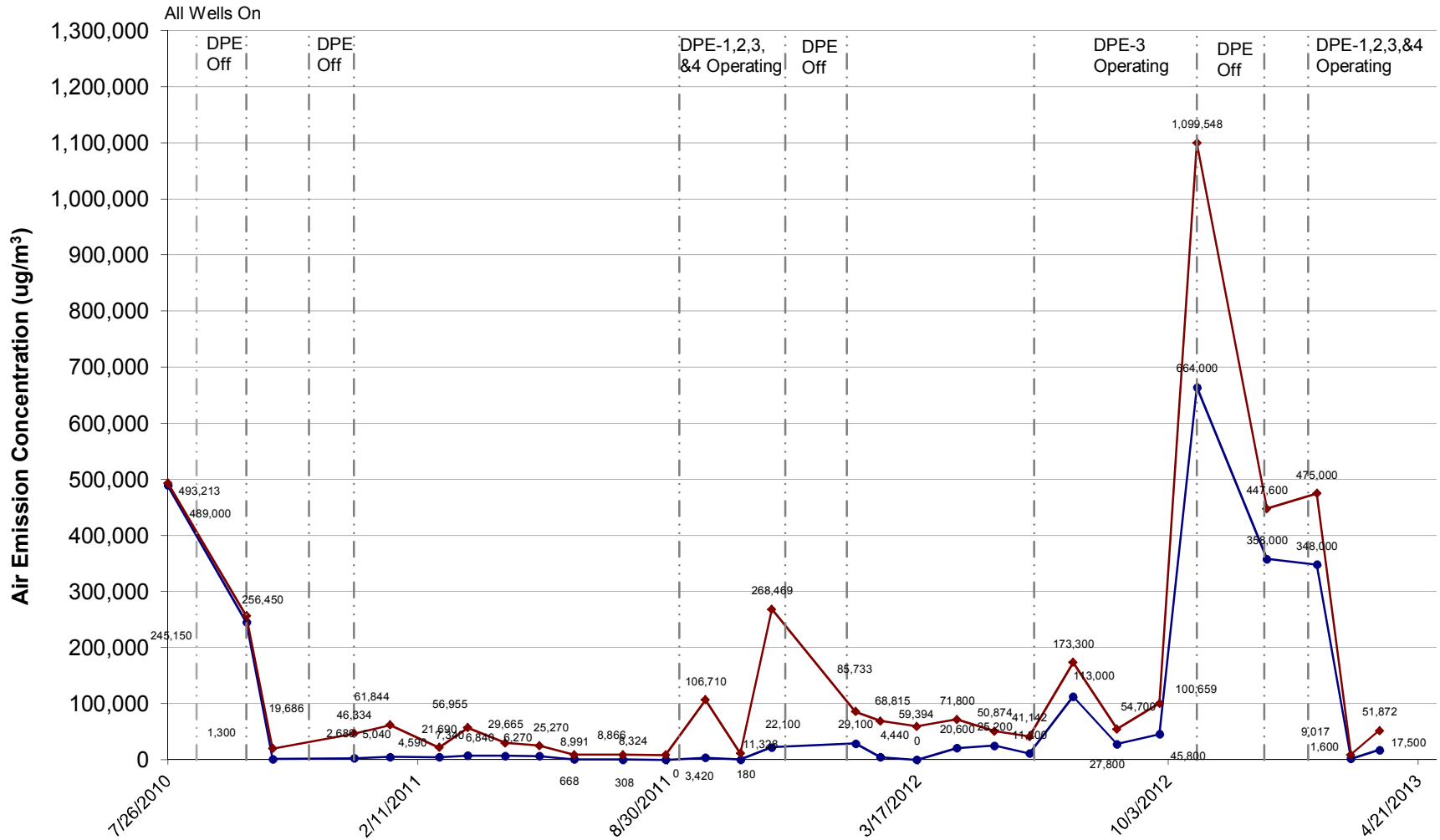


FIGURE 4B

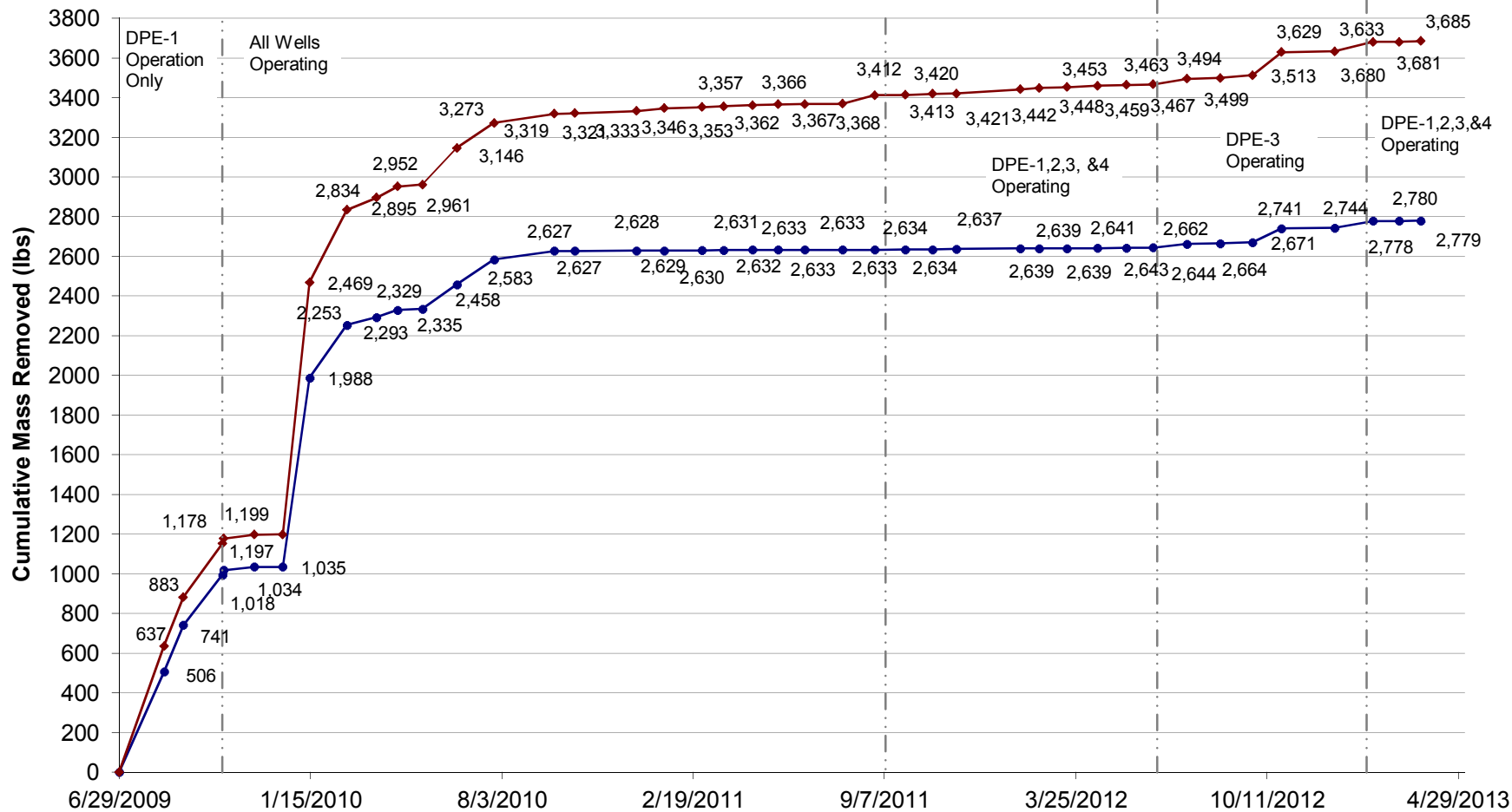
DPE EMISSIONS CONCENTRATIONS - JULY 2010 TO PRESENT
 MN Bio Business Center
 221 1st Avenue SW
 Rochester, Minnesota



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

—●— PCE
 —◆— Total VOCs

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.

—●— PCE
 —●— Total VOCs

FIGURE 6

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

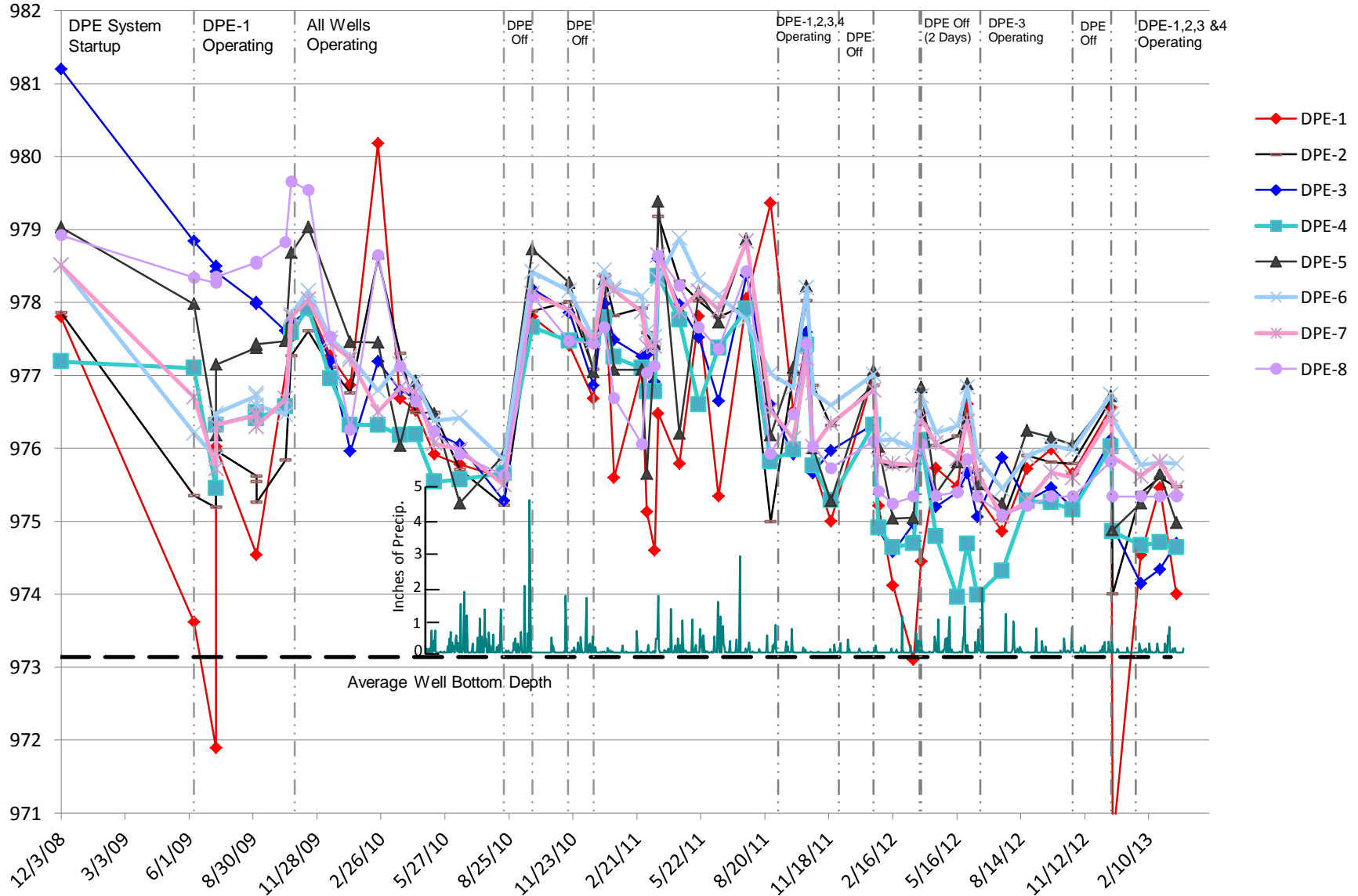
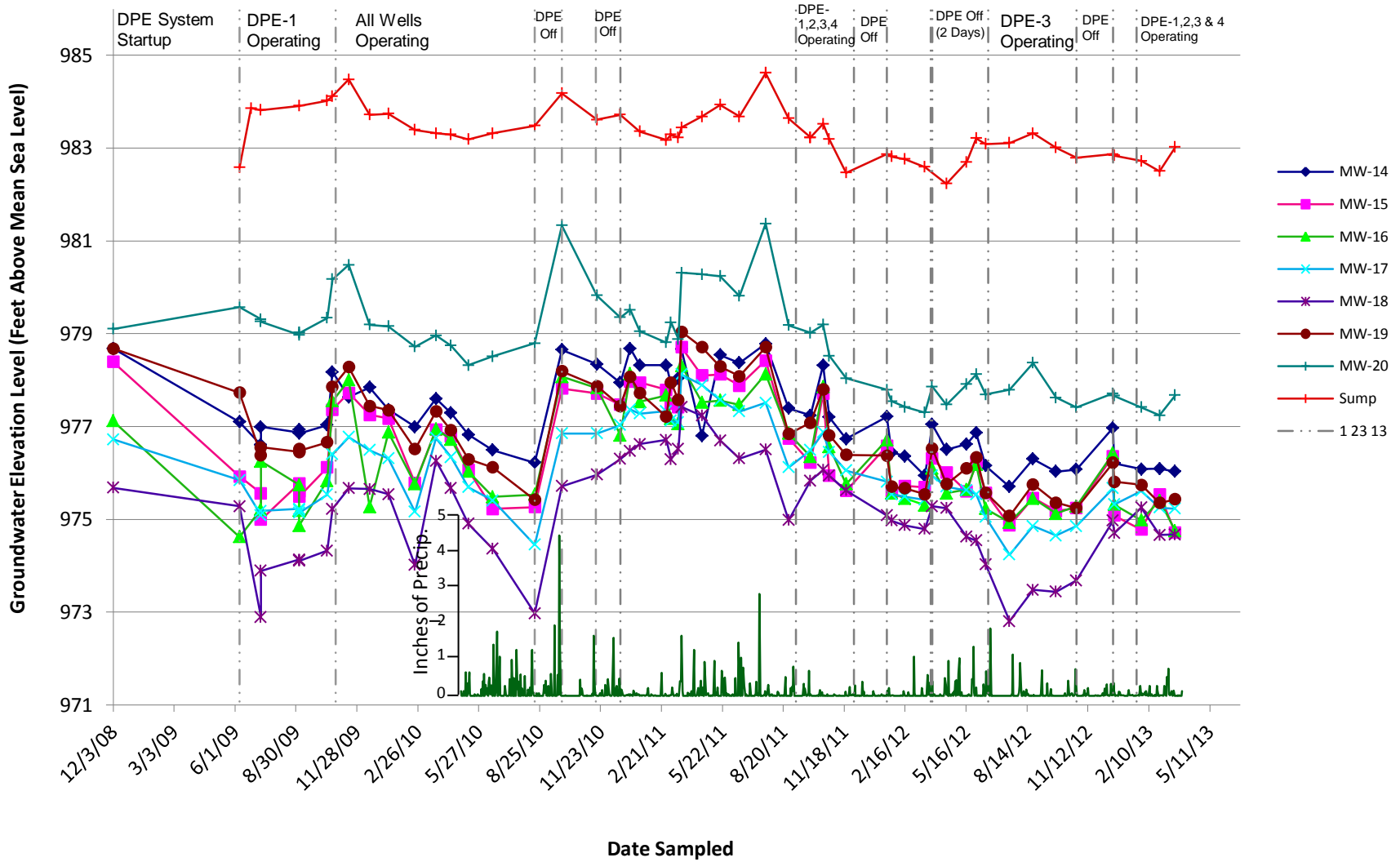
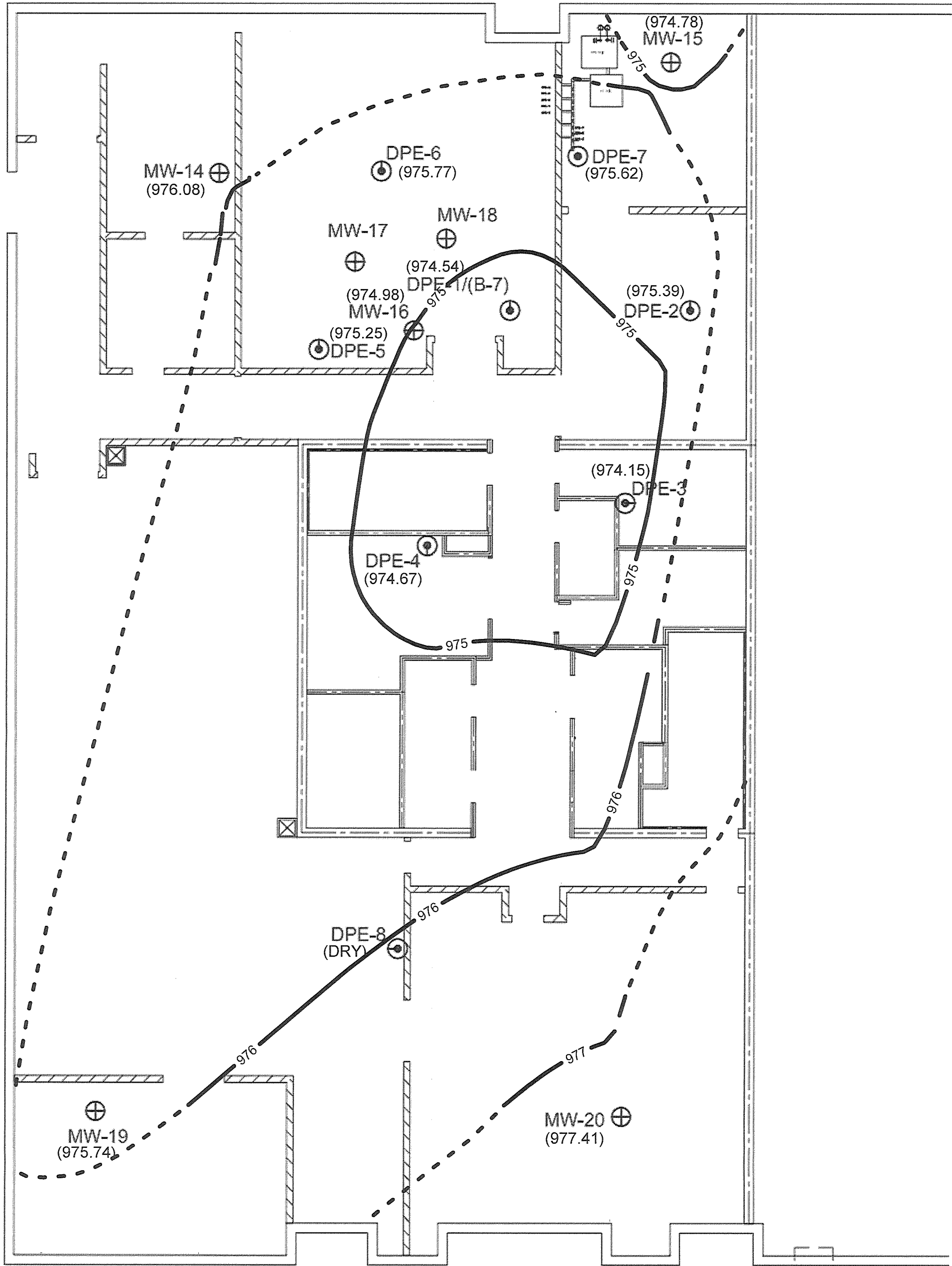


FIGURE 7

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



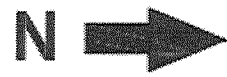


LEGEND

- ⊙ DPE Well Location
- ⊕ Monitoring Well Location

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

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



10 feet
SCALE

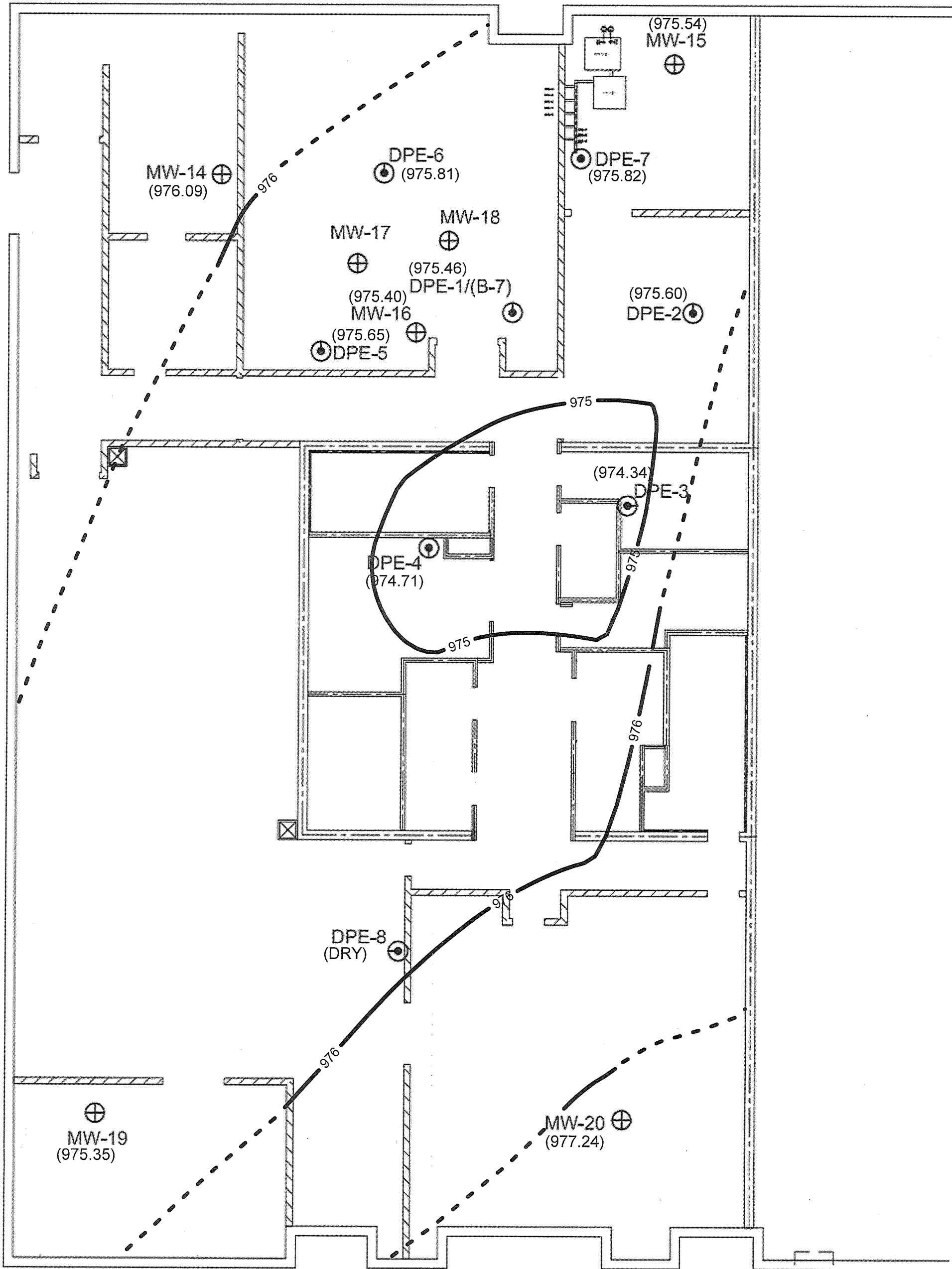
BASE DRAWING PROVIDED BY HGA

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Bloomington, MN 55431

FIGURE 8A
GROUNDWATER FLOW INTERPRETATION-
January 30, 2013
221 FIRST AVENUE S.W.
ROCHESTER, MINNESOTA

Landmark Project Number: CRC		
Drawn: KAB	Checked: JDS	Designed: JDS
Scale: .	Date: 4/9/2013	Revised:
Drawing Number:	Sheet	Of Sheets



LEGEND

- ⊙ DPE Well Location
- ⊕ Monitoring Well Location

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

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



10 feet
SCALE

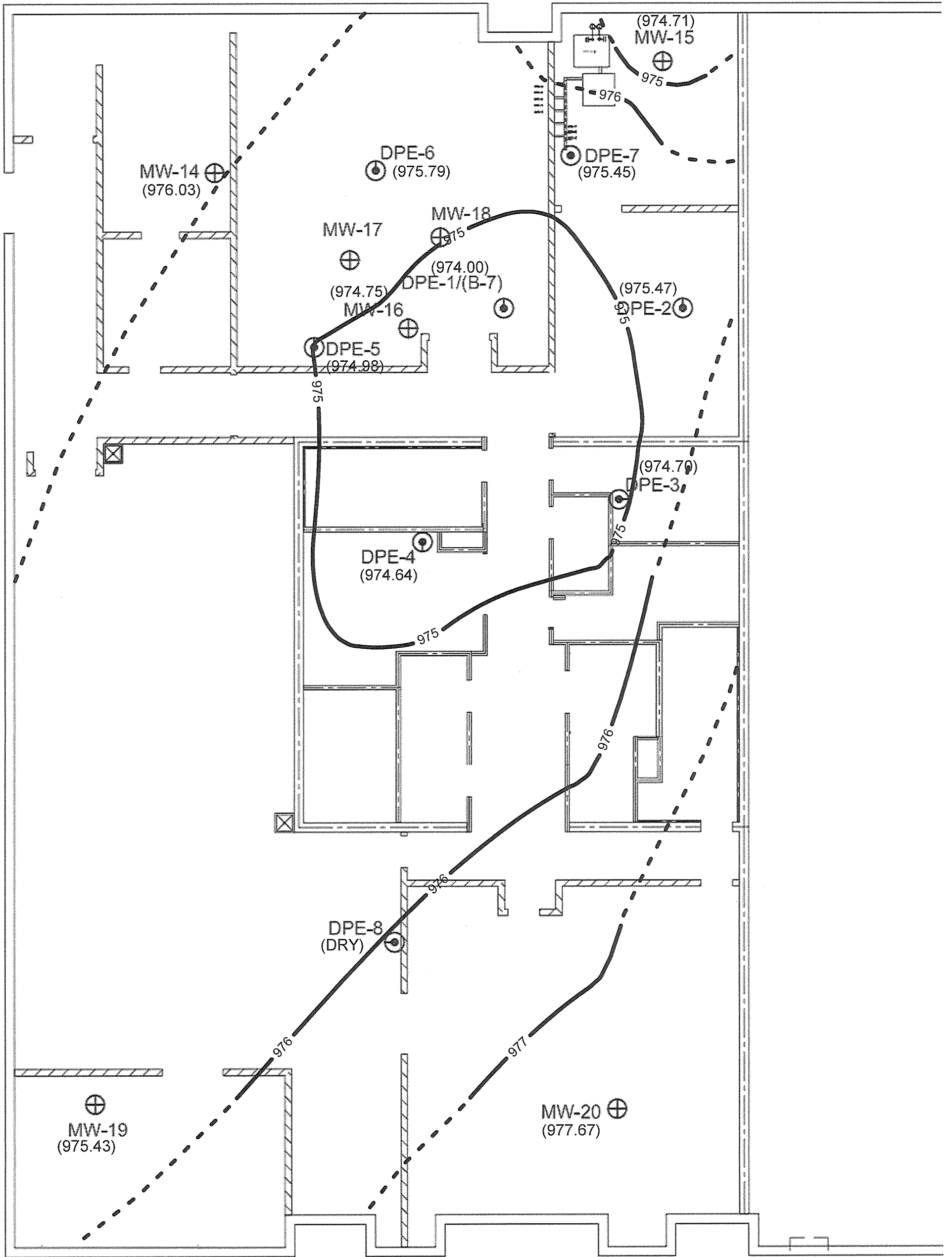
BASE DRAWING PROVIDED BY HGA

Rev	Date	By	Description

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2042 West 98th Street
Bloomington, MN 55431

FIGURE 8B
GROUNDWATER FLOW INTERPRETATION-
February 26, 2013
221 FIRST AVENUE S.W.
ROCHESTER, MINNESOTA

Landmark Project Number: CRC		
Drawn: KAB	Checked: JDS	Designed: JDS
Scale: .	Date: 4/9/2013	Revised:
Drawing Number:	Sheet	Of Sheets

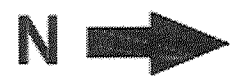


LEGEND

- ⊙ DPE Well Location
- ⊕ Monitoring Well Location

(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.



10 feet
SCALE

BASE DRAWING PROVIDED BY HGA

Rev	Date	By	Description

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

FIGURE 8C
GROUNDWATER FLOW INTERPRETATION-
March 21, 2013
221 FIRST AVENUE S.W.
ROCHESTER, MINNESOTA

Landmark Project Number: CRC		
Drawn: KAB	Checked: JDS	Designed: JDS
Scale: .	Date: 4/9/2013	Revised:
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

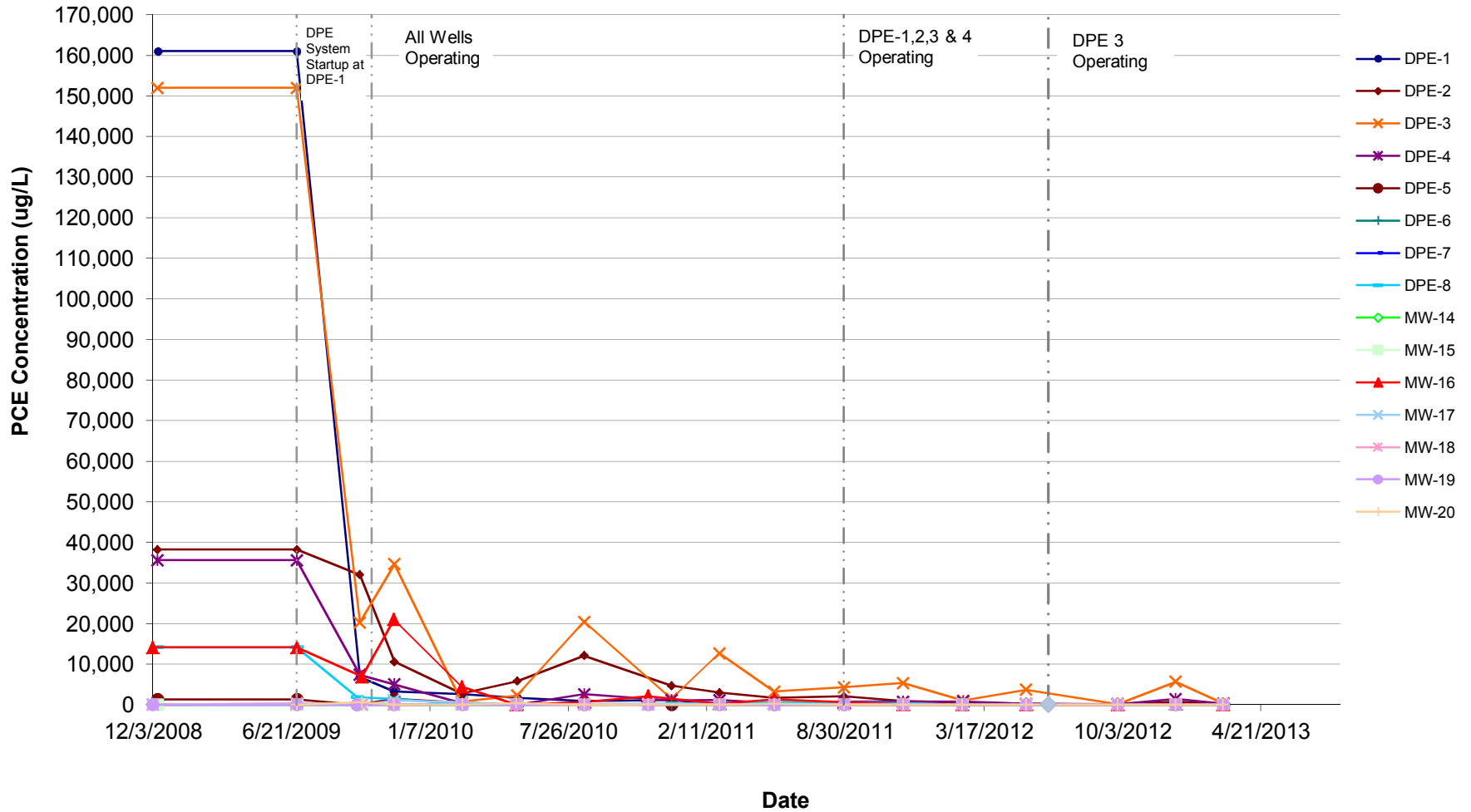
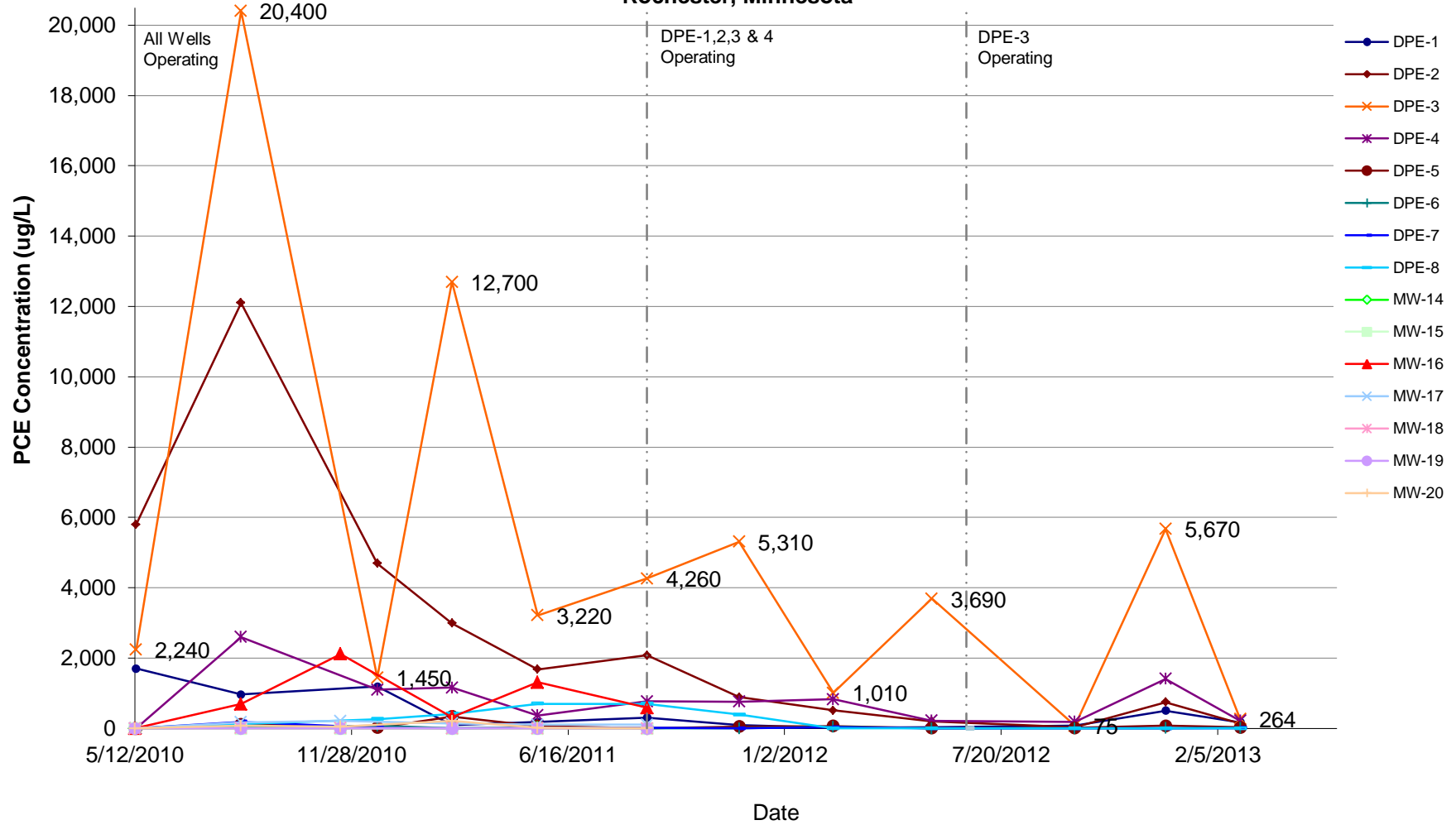
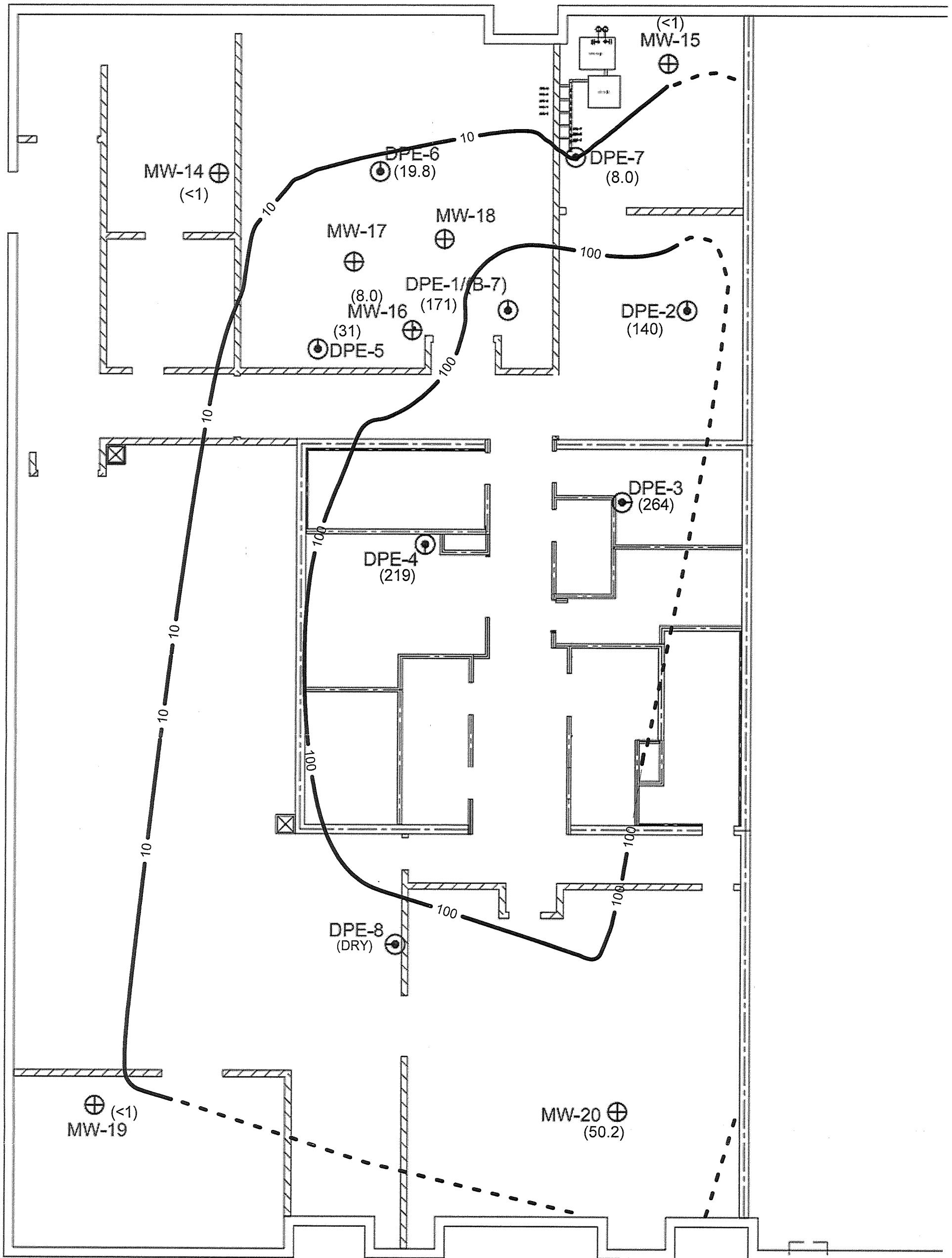


FIGURE 9B

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





LEGEND

- ⊙ DPE Well Location
- ⊕ Monitoring Well Location
- (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.



10 feet
SCALE

BASE DRAWING PROVIDED BY HGA

Rev	Date	By	Description	LANDMARK ENVIRONMENTAL, LLC 2042 West 98th Street Bloomington, MN 55431		FIGURE 10 SHALLOW PCE GROUNDWATER CONCENTRATION INTERPRETATION February 25, 2013 221 FIRST AVENUE S.W. ROCHESTER, MINNESOTA		Landmark Project Number: CRC		
				Drawn: KAB	Checked: JDS	Designed: JDS				
				Scale: .	Date: 4/9/2013	Revised:				
				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 while 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.
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 sensophone. 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.

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
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.
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.

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
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.
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 and 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 and 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.

TABLE 1

SYSTEM OPERATION AND MAINTENANCE SUMMARY
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Rochester, Minnesota

Date	Approximate Time	Sensophone Call Received?	Alarm Condition	DPE System Status	Comments
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.
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	
	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.

TABLE 1

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Date	Approximate Time	Sensophone Call Received?	Alarm Condition	DPE System Status	Comments
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 sensophone sound alarm, and remove sediment from the primary moisture separator (MS1).
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.

TABLE 1

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Date	Approximate Time	Sensophone Call Received?	Alarm Condition	DPE System Status	Comments
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.
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.

TABLE 1

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Date	Approximate Time	Sensophone Call Received?	Alarm Condition	DPE System Status	Comments
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.
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.

TABLE 1

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Date	Approximate Time	Sensophone Call Received?	Alarm Condition	DPE System Status	Comments
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.
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.

TABLE 1

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Date	Approximate Time	Sensophone Call Received?	Alarm Condition	DPE System Status	Comments
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..
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 solenoid 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 brackets.

TABLE 1

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Date	Approximate Time	Sensophone Call Received?	Alarm Condition	DPE System Status	Comments
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.
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.

TABLE 1

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Date	Approximate Time	Sensophone Call Received?	Alarm Condition	DPE System Status	Comments
4-Jan-13	9:40	NA	NA	On	Landmark onsite to replace transfer pump stator, clean air stripper, and rebuild DPE-3 solenoid. Landmark also changed oil at 23,655 hours.
9-Jan-13	9:40	NA	NA	On	Landmark onsite to replace transfer pump coupling and key.
18-Jan-13	8:00	NA	NA	On	Landmark onsite to repair transfer pump.
30-Jan-13	6:00	NA	NA	On	Landmark onsite to conduct monthly monitoring and sampling event.
5-Feb-13	7:26	Y	MS High Level	On/Off/On	Restarted system remotely.
8-Feb-13	13:45	Y	MS High Level	On/Off	
12-Feb-13	NA	NA	NA	Off/On	Landmark onsite to replace transfer pump.
26-Feb-13	NA	NA	NA	On	Landmark onsite to conduct quarterly groundwater sampling event and monthly DPE system monitoring and sampling event.
21-Mar-13	8:00	NA	NA	On	Landmark onsite to conduct monthly monitoring and sampling event.

NA: Not Applicable.

Y: Yes.

N: No.

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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 while 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.
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 sensophone. 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.

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Date	Approximate Time	Sensophone Call Received?	Alarm Condition	DPE System Status	Comments
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.
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.

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Date	Approximate Time	Sensophone Call Received?	Alarm Condition	DPE System Status	Comments
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.
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 and 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 and 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.

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Date	Approximate Time	Sensophone Call Received?	Alarm Condition	DPE System Status	Comments
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.
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	
	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.

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Date	Approximate Time	Sensophone Call Received?	Alarm Condition	DPE System Status	Comments
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 sensophone sound alarm, and remove sediment from the primary moisture separator (MS1).
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.

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Date	Approximate Time	Sensophone Call Received?	Alarm Condition	DPE System Status	Comments
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.
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.

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Date	Approximate Time	Sensophone Call Received?	Alarm Condition	DPE System Status	Comments
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.
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.

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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.
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.

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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..
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 solenoid 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 brackets.

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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.
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.

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
4-Jan-13	9:40	NA	NA	On	Landmark onsite to replace transfer pump stator, clean air stripper, and rebuild DPE-3 solenoid. Landmark also changed oil at 23,655 hours.
9-Jan-13	9:40	NA	NA	On	Landmark onsite to replace transfer pump coupling and key.
18-Jan-13	8:00	NA	NA	On	Landmark onsite to repair transfer pump.
30-Jan-13	6:00	NA	NA	On	Landmark onsite to conduct monthly monitoring and sampling event.
5-Feb-13	7:26	Y	MS High Level	On/Off/On	Restarted system remotely.
8-Feb-13	13:45	Y	MS High Level	On/Off	
12-Feb-13	NA	NA	NA	Off/On	Landmark onsite to replace transfer pump.
26-Feb-13	NA	NA	NA	On	Landmark onsite to conduct quarterly groundwater sampling event and monthly DPE system monitoring and sampling event.
21-Mar-13	8:00	NA	NA	On	Landmark onsite to conduct monthly monitoring and sampling event.

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		DPE Well(s) Operating	DPE Pump Hours	Hours Per Period	Total Flow Rate (scfm)	Total VOCs			PCE		
Start Date	End Date					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
12/21/2012	1/30/2013	DPE-1, 2, 3, & 4	24138	696	38.1	475,000	47.22	3,680.26	348,000	34.59	2778.39
1/30/2013	2/26/2013	DPE-1, 2, 3, & 4	24625	487	44.1	9,017	0.73	3,680.99	1,600	0.13	2778.52
2/26/2013	3/21/2013	DPE-1, 2, 3, & 4	25176	551	39.1	51,872	4.19	3,685.18	17,500	1.41	2779.93

Notes:

- 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.
- 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.
- 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.
- The flow rate used for the 10/15/09 calculations was from operation at DPE-1.
- 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.
- The flow rates used after 1/14/10 were averaged from the flow rates from each well during sequential operation of all DPE wells.
- There was a typo when entering the DPE pump hours; therefore, this value was revised while entering the data from 4/16/10.
- 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.
- 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 0836	DPE-EXHAUST 1051	DPE-EXHAUST 0531	DPE-EXHAUST 0757	DPE-EXHAUST 1264
Wells Operating	DPE-1,2,3 & 4	DPE-1,2,3 & 4	DPE-1,2,3 & 4	DPE3	DPE3
Sample Collection Method	6-hr Composite	6-hr Composite	6-hr Composite	6-hr Composite	6-hr Composite
Collected Date	3/21/2013	2/25/2013	1/30/2013	12/21/2012	10/26/2012
1,1,1-Trichloroethane	<107	<52.1	<6400	<1380	<383
1,1,2,2-Tetrachloroethane	<67.0	<32.7	<4020	<867	<241
1,1,2-Trichloroethane	<52.8	<25.8	<3170	<683	<190
1,1,2-Trichlorotrifluoroethane	33300	7040	127000	89600	433000
1,1-Dichloroethane	<78.8	<38.5	<4730	<1020	<283
1,1-Dichloroethene	<77.8	<38.0	<4670	<1010	<280
1,2,4-Trichlorobenzene	<145	<70.8	<8700	<1870	<521
1,2,4-Trimethylbenzene	<96.0	<46.9	<5760	<1240	<345
1,2-Dibromoethane (EDB)	<150	<73.2	<8990	<1940	<538
1,2-Dichlorobenzene	<117	<57.2	<7030	<1510	<421
1,2-Dichloroethane	<39.4	<19.2	<2360	<509	<142
1,2-Dichloropropane	<90.3	<44.1	<5420	<1170	<324
1,3,5-Trimethylbenzene	<96.0	<46.9	<5760	<1240	<345
1,3-Butadiene	<43.2	<21.1	<2590	<559	<155
1,3-Dichlorobenzene	<117	<57.2	<7030	<1510	<421
1,4-Dichlorobenzene	<117	<57.2	<7030	<1510	<421
2-Butanone (MEK)	<57.6	<28.1	<3460	<745	<207
2-Hexanone	<79.7	<38.9	<4780	<1030	<286
2-Propanol	126	<23.4	<2880	<621	218
4-Ethyltoluene	<96.0	<46.9	<5760	<1240	<345
4-Methyl-2-pentanone (MIBK)	<79.7	<38.9	<4780	<1030	<286
Acetone	71.2	48.0	<2770	<596	<166
Benzene	<31.2	18.0	<1870	<404	<112
Benzyl chloride	<101	<49.2	<6050	<1300	<362
Bromodichloromethane	<131	<63.8	<7840	<1690	<469
Bromoform	<202	<98.5	<12100	<2610	<725
Bromomethane	<75.9	<37.1	<4550	<981	<273
Carbon disulfide	<60.5	<29.5	<3630	<782	<217
Carbon tetrachloride	<61.5	<30.0	<3690	<795	<221
Chlorobenzene	<90.3	<44.1	<5420	<1170	<324
Chloroethane	<51.9	<25.3	<3110	<670	<186
Chloroform	<95.1	<46.4	<5710	<1230	<342
Chloromethane	<40.3	<19.7	<2420	<521	<145
cis-1,2-Dichloroethene	84.4	<38.0	<4670	<1010	370
cis-1,3-Dichloropropene	<88.4	<43.1	<5300	<1140	<318
Cyclohexane	<67.2	104	<4030	<869	<242
Dibromochloromethane	<166	<81.1	<9970	<2150	<597
Dichlorodifluoromethane	<97.0	<47.4	<5820	<1250	<349
Dichlorotetrafluoroethane	<136	<66.6	<8180	<1760	<490
Ethanol	507	105	<2190	<472	1960
Ethyl acetate	<70.1	<34.2	<4210	<906	<252
Ethylbenzene	<84.5	<41.3	<5070	<1090	<304
Hexachloro-1,3-butadiene	<211	<103	<12700	<2730	<759
m&p-Xylene	<169	<82.5	<10100	<2190	<608
Methylene Chloride	80	45.6	<4090	<882	<245
Methyl-tert-butyl ether	<70.1	<34.2	<4210	<906	<252
Naphthalene	<103	<50.2	<6170	<1330	<369
n-Heptane	<79.7	<38.9	<4780	<1030	<286
n-Hexane	89.2	56.2	<4150	<894	<249
o-Xylene	<84.5	<41.3	<5070	<1090	<304
Propylene	<33.6	<16.4	<2020	<435	<121
Styrene	<83.6	<40.8	<5010	<1080	<300
Tetrachloroethene	17500	1600	348000	358000	664000
Tetrahydrofuran	<57.6	<28.1	<3460	<745	<207
Toluene	114	54.7	<4440	<956	<266
trans-1,2-Dichloroethene	<77.8	<38.0	<4670	<1010	<280
trans-1,3-Dichloropropene	<88.4	<43.1	<5300	<1140	<318
Trichloroethene	<52.8	<25.8	<3170	<683	<190
Trichlorofluoromethane	<109	<53.5	<6570	<1420	<394
Vinyl acetate	<68.8	<33.6	<4130	<889	<247
Vinyl chloride	<25.0	<12.2	<1500	<323	<89.7
TOTAL VOCs	51,872	9,017	475,000	447,600	1,099,548

Bold: Parameter detected above the reporting limit.

NA: Not analyzed

TABLE 3

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

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1. Flow Controller failed on 9/27/10; however, a 1/2 hour composite sample was still collected.
2. Landmark believes the October

TABLE 3

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

Sample ID	DPE-EXHAUST 0795	DPE-EXHAUST 2048	DPE-EXHAUST 1660	DPE-EXHAUST 0558	DPE-EXHAUST 0361
Wells Operating	DPE3	DPE-3	DPE-3	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	9/26/2012	8/23/2012	7/19/2012	6/14/2012	5/17/2012
1,1,1-Trichloroethane	<298	<478	<1100	<341	13.1
1,1,2,2-Tetrachloroethane	<188	<300	<692	<214	<1.2
1,1,2-Trichloroethane	<148	<237	<546	<169	<0.92
1,1,2-Trichlorotrifluoroethane	34800	26900	60300	29200	25500
1,1-Dichloroethane	<220	<353	<813	<252	<1.4
1,1-Dichloroethene	<218	<349	<804	<249	<1.4
1,2,4-Trichlorobenzene	<406	<650	<1500	<304	<1.7
1,2,4-Trimethylbenzene	<269	<430	<991	<307	2.2
1,2-Dibromoethane (EDB)	<419	<671	<1550	<479	<2.6
1,2-Dichlorobenzene	<328	<525	<1210	<375	<2.0
1,2-Dichloroethane	<110	<176	<407	<126	<0.69
1,2-Dichloropropane	<253	<405	<932	<289	<1.6
1,3,5-Trimethylbenzene	<269	<430	<991	<307	<1.7
1,3-Butadiene	<121	<194	<446	<138	<0.76
1,3-Dichlorobenzene	<328	<525	<1210	<375	<2.0
1,4-Dichlorobenzene	<328	<525	<1210	<375	<2.0
2-Butanone (MEK)	<161	<258	<595	<184	<1.0
2-Hexanone	<223	<357	<823	<255	<1.4
2-Propanol	<134	<215	<496	<768	<4.2
4-Ethyltoluene	<269	<430	<992	<307	<1.7
4-Methyl-2-pentanone (MIBK)	<223	<357	<823	<255	<1.4
Acetone	169	<207	<476	<147	16.6
Benzene	<87.4	<140	<322	<99.8	<0.55
Benzyl chloride	<282	<452	<1040	<323	<1.8
Bromodichloromethane	<366	<585	<1350	<418	<2.3
Bromoform	<564	<904	<2080	<645	<3.5
Bromomethane	<212	<340	<784	<243	<1.3
Carbon disulfide	<169	<271	<625	<194	<1.1
Carbon tetrachloride	<172	<275	<635	<197	<1.1
Chlorobenzene	<253	<405	<932	<289	<1.6
Chloroethane	<145	<232	<536	<166	<0.91
Chloroform	<266	<426	<982	<304	<1.7
Chloromethane	<113	<181	<417	<129	<0.71
cis-1,2-Dichloroethene	<218	<349	<804	<249	34.8
cis-1,3-Dichloropropene	<247	<396	<913	<283	<1.5
Cyclohexane	<188	<301	<694	<209	<1.1
Dibromochloromethane	<465	<745	<1720	<531	<2.9
Dichlorodifluoromethane	<271	<435	<1000	<310	1.8
Dichlorotetrafluoroethane	<382	<611	<1410	<436	<2.4
Ethanol	18700	<164	<377	742	51.8
Ethyl acetate	1190	<314	<724	<224	37.6
Ethylbenzene	<237	<379	<873	<270	<1.5
Hexachloro-1,3-butadiene	<591	<947	<2180	<676	<3.7
m&p-Xylene	<473	<758	<1750	<541	<3.0
Methylene Chloride	<191	<306	<704	<218	<1.2
Methyl-tert-butyl ether	<196	<314	<724	<224	<1.2
Naphthalene	<288	<461	<1060	<329	1.8
n-Heptane	<223	<357	<823	<255	<1.4
n-Hexane	<194	<310	<714	<221	1.6
o-Xylene	<237	<379	<873	<270	<1.5
Propylene	<94.1	<151	<347	<108	<0.59
Styrene	<234	<374	<863	<267	<1.5
Tetrachloroethene	45800	27800	113000	11200	25200
Tetrahydrofuran	<161	<258	<595	<184	<1.0
Toluene	<207	<331	<764	<237	3.1
trans-1,2-Dichloroethene	<218	<349	<804	<249	<1.4
trans-1,3-Dichloropropene	<247	<396	<913	<283	<1.5
Trichloroethene	<148	<237	<546	<169	9.6
Trichlorofluoromethane	<306	<491	<1130	<350	<1.9
Vinyl acetate	<192	<308	<710	<218	<1.2
Vinyl chloride	<69.9	<112	<258	<79.9	<0.44
TOTAL VOCs	100,659	54,700	173,300	41,142	50,874

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NA: Not analyzed

TABLE 3

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

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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 1071	DPE-EXHAUST 1637	DPE-EXHAUST 1289	DPE-EXHAUST 1250	DPE-EXHAUST 1627
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	4/17/2012	3/16/2012	2/16/2012	1/27/2012	11/21/2011
1,1,1-Trichloroethane	<357	<682	<567	51	<260
1,1,2,2-Tetrachloroethane	<224	<429	<360	<1.3	<165
1,1,2-Trichloroethane	<177	<338	<283	<1.1	<130
1,1,2-Trichlorotrifluoroethane	51200	58500	60400	56,100	244,000
1,1-Dichloroethane	<264	<504	<422	<1.6	<194
1,1-Dichloroethene	<260	<498	<417	<1.6	<192
1,2,4-Trichlorobenzene	<318	<608	<510	<1.9	<234
1,2,4-Trimethylbenzene	<321	<614	<515	5.6	<237
1,2-Dibromoethane (EDB)	<502	<958	<824	<3.1	<379
1,2-Dichlorobenzene	<392	<750	<618	<2.3	<284
1,2-Dichloroethane	<132	<252	<211	<0.79	<97.1
1,2-Dichloropropane	<302	<578	<484	<1.8	<223
1,3,5-Trimethylbenzene	<321	<614	<515	<1.9	<237
1,3-Butadiene	<145	<276	<232	<0.86	<107
1,3-Dichlorobenzene	<392	<750	<618	<2.3	<284
1,4-Dichlorobenzene	<392	<750	<618	5.4	<284
2-Butanone (MEK)	<193	<369	<309	5.2	343
2-Hexanone	<267	<510	<428	<1.6	<197
2-Propanol	<804	<1540	<1290	17.5	<592
4-Ethyltoluene	<322	<614	<1290	<4.8	<592
4-Methyl-2-pentanone (MIBK)	<267	<510	<428	<1.6	<197
Acetone	<154	<295	<247	43.6	693
Benzene	<105	<200	<167	1.4	<77.0
Benzyl chloride	<338	<645	<541	<2.0	<249
Bromodichloromethane	<437	<836	<721	<2.7	<332
Bromoform	<675	<1290	<1080	<4.0	<497
Bromomethane	<254	<485	<407	<1.5	<187
Carbon disulfide	<203	<387	<325	<1.2	<149
Carbon tetrachloride	<206	<393	<330	<1.2	<152
Chlorobenzene	<302	<578	<484	<1.8	<223
Chloroethane	<174	<332	<278	<1.0	<128
Chloroform	<318	<608	<510	10.3	<234
Chloromethane	<135	<258	<216	<0.81	<99.5
cis-1,2-Dichloroethene	<260	<498	<417	80	262
cis-1,3-Dichloropropene	<296	<565	<474	<1.8	<218
Cyclohexane	<219	<418	<350	<1.3	<161
Dibromochloromethane	<556	<1060	<876	<3.3	<403
Dichlorodifluoromethane	<325	<621	<515	<1.9	<237
Dichlorotetrafluoroethane	<457	<872	<721	<2.7	<332
Ethanol	<122	894	<979	249	777
Ethyl acetate	<235	<449	<376	<1.4	<173
Ethylbenzene	<283	<541	<453	3.1	<208
Hexachloro-1,3-butadiene	<708	<1350	<1130	<4.2	<521
m&p-Xylene	<566	<1080	<907	3.9	<417
Methylene Chloride	<228	<436	1390	<1.4	<168
Methyl-tert-butyl ether	<235	<449	<376	<1.4	<173
Naphthalene	<344	<657	<1390	<5.2	<639
n-Heptane	<267	<510	<428	2.9	<197
n-Hexane	<232	<442	585	6.9	<170
o-Xylene	<283	<541	<453	2.3	<208
Propylene	<113	<215	<180	<0.67	<82.9
Styrene	<280	<535	<448	<1.7	<206
Tetrachloroethene	20600	<423	4440	29100	22100
Tetrahydrofuran	<193	<369	<309	<1.2	<142
Toluene	<248	<473	<397	7.5	<182
trans-1,2-Dichloroethene	<260	<498	<417	<1.6	<192
trans-1,3-Dichloropropene	<296	<565	<474	<1.8	<218
Trichloroethene	<177	<338	<283	36.9	294
Trichlorofluoromethane	<367	<700	<567	<2.1	<260
Vinyl acetate	<228	<436	<366	<1.4	<168
Vinyl chloride	<83.6	<160	<134	<0.50	<61.6
TOTAL VOCs	71,800	59,394	85,733	268,469	11,328

Bold: Parameter detected above the reporting limit.

NA: Not analyzed

TABLE 3

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

Vinyl acetate	<228	<436	<366	<1.4	<168
Vinyl chloride	<83.6	<160	<134	<0.50	<61.6
TOTAL VOCs	71,800	59,394	85,733	268,469	11,328

1. Flow Controller failed on 9/27/10; however, a 1/2 hour composite sample was still collected.
2. Landmark believes the

TABLE 3

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

Sample ID	DPE-EXHAUST 1105251-01	DPE-EXHAUST 1214	DPE-EXHAUST 0260	DPE-EXHAUST 1571	DPE EXHAUST 0727
Wells Operating	DPE-1,2,3 & 4	DPE-1,2,3 & 4	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	10/27/2011	9/29/2011	8/28/2011	7/25/2011	6/16/2011
1,1,1-Trichloroethane	<14	<33.9	<41.4	<39.6	<33.9
1,1,1,2-Tetrachloroethane	<17	<21.5	<26.2	<25.1	<21.5
1,1,2-Trichloroethane	<14	<16.9	<20.7	<19.8	<16.9
1,1,2-Trichlorotrifluoroethane	11,000	103,000	8,150	8,250	8,050
1,1-Dichloroethane	<10	<25.3	<30.8	<29.5	<25.3
1,1-Dichloroethene	<10	<24.9	<30.5	<29.2	<24.9
1,2,4-Trichlorobenzene	<18	<30.5	<37.2	<35.6	<30.5
1,2,4-Trimethylbenzene	<4.9	50.5	<37.6	<36.0	<30.8
1,2-Dibromoethane (EDB)	<19	<49.3	<60.2	<57.6	<49.3
1,2-Dichlorobenzene	<15	<37.0	<45.1	<43.2	<37.0
1,2-Dichloroethane	<10	<12.6	<15.4	<14.8	<12.6
1,2-Dichloropropane	<12	<29.0	<35.3	<33.8	<29.0
1,3,5-Trimethylbenzene	<4.9	<30.8	<37.6	<36.0	<30.8
1,3-Butadiene	<5.5	<13.9	<16.9	<16.2	<13.9
1,3-Dichlorobenzene	<15	<37.0	<45.1	<43.2	<37.0
1,4-Dichlorobenzene	<15	<37.0	<45.1	<43.2	<37.0
2-Butanone (MEK)	11	80.1	<22.6	27.1	<18.5
2-Hexanone	<10	<25.6	<31.2	<29.9	<25.6
2-Propanol	16	<77.0	<94.0	<90.0	<77.0
4-Ethyltoluene	<12	<77.0	<94.0	<90.0	<77.0
4-Methyl-2-pentanone (MIBK)	<10	<25.6	<31.2	<29.9	<25.6
Acetone	25	58.3	53.1	83.1	72.5
Benzene	<3.2	<10.0	<12.2	<11.7	<10.0
Benzyl chloride	<13	<32.3	<39.5	<37.8	<32.3
Bromodichloromethane	<17	<43.1	<52.6	<50.4	<43.1
Bromoform	<26	<64.7	<79.0	<75.6	<64.7
Bromomethane	<9.5	<24.3	<29.7	<28.4	<24.3
Carbon disulfide	<8.0	<19.4	<23.7	<22.7	<19.4
Carbon tetrachloride	<16	<19.7	<24.1	<23.0	<19.7
Chlorobenzene	<12	<29.0	<35.3	<33.8	<29.0
Chloroethane	<6.5	<16.6	<20.3	<19.4	<16.6
Chloroform	<12	<30.5	<37.2	<35.6	<30.5
Chloromethane	<5.0	<12.9	<15.8	<15.1	<12.9
cis-1,2-Dichloroethene	<10	49.1	<30.5	<29.2	<24.9
cis-1,3-Dichloropropene	<12	<28.3	<34.6	<33.1	<28.3
Cyclohexane	<8.5	<20.9	<25.6	<24.5	<20.9
Dibromochloromethane	<22	<52.4	<63.9	<61.2	<52.4
Dichlorodifluoromethane	<12	<30.8	<37.6	<36.0	<30.8
Dichlorotetrafluoroethane	<18	<43.1	<52.6	<50.4	<43.1
Ethanol	81	<58.5	121	198	201
Ethyl acetate	<9.0	<22.5	<27.4	<26.3	<22.5
Ethylbenzene	<4.4	<27.1	<33.1	<31.7	<27.1
Hexachloro-1,3-butadiene	<26	<67.8	<82.7	<79.2	<67.8
m&p-Xylene	<8.5	<54.2	<66.2	<63.4	<54.2
Methylene Chloride	15	<21.9	<26.7	<25.6	<21.9
Methyl-tert-butyl ether	<9.0	<22.5	<27.4	<26.3	<22.5
Naphthalene	<13	<83.2	<102	<97.2	<83.2
n-Heptane	<10	<25.6	<31.2	<29.9	<25.6
n-Hexane	<9.0	<22.2	<27.1	<25.9	<22.2
o-Xylene	<4.4	<27.1	<33.1	<31.7	<27.1
Propylene	<4.3	<10.8	<13.2	<12.6	<10.8
Styrene	<10	<26.8	<32.7	<31.3	<26.8
Tetrachloroethene	180	3420	<25.9	308	668
Tetrahydrofuran	<7.5	<18.5	<22.6	<21.6	<18.5
Toluene	<3.8	29.6	<29.0	<27.7	<23.7
trans-1,2-Dichloroethene	<10	<24.9	<30.5	<29.2	<24.9
trans-1,3-Dichloropropene	<12	<28.3	<34.6	<33.1	<28.3
Trichloroethene	<14	22.2	<20.7	<19.8	<16.9
Trichlorofluoromethane	<14	<33.9	<41.4	<39.6	<33.9
Vinyl acetate	<9.0	<21.9	<26.7	<25.6	<21.9
Vinyl chloride	<6.5	<8.0	<9.8	<9.4	<8.0
TOTAL VOCs	106,710	8,324	8,866	8,991	25,270

Bold: Parameter detected above the reporting limit.

NA: Not analyzed

TABLE 3

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

Vinyl acetate	<9.0	<21.9	<26.7	<25.6	<21.9
Vinyl chloride	<6.5	<8.0	<9.8	<9.4	<8.0
TOTAL VOCs	106,710	8,324	8,866	8,991	25,270

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

TABLE 3

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

Sample ID	DPE EXHAUST 0416	DPE EXHAUST 0514	DPE EXHAUST 1186	DPE EXHAUST 0798	DPE EXHAUST 1513
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	5/19/2011	4/22/2011	3/23/2011	2/28/2011	1/20/2011
1,1,1-Trichloroethane	<280	<36.5	<39.6	<140	20.8
1,1,2,2-Tetrachloroethane	<178	<46.5	<50.4	<88.8	<2.2
1,1,2-Trichloroethane	<140	<36.5	<39.6	<70.0	<1.7
1,1,2-Trichlorotrifluoroethane	19,000	22,600	49,100	17,100	56,200
1,1-Dichloroethane	<209	<27.2	<29.5	<104	<1.3
1,1-Dichloroethene	<206	<26.9	<29.2	<103	<1.3
1,2,4-Trichlorobenzene	<252	<32.9	<35.6	<126	<1.6
1,2,4-Trimethylbenzene	<254	<33.2	<36.0	<127	3.3
1,2-Dibromoethane (EDB)	<407	<53.1	<57.6	<204	<2.5
1,2-Dichlorobenzene	<305	<39.8	<43.2	<153	<1.9
1,2-Dichloroethane	<104	<27.2	<29.5	<52.2	<1.3
1,2-Dichloropropane	<239	<31.2	<33.8	<120	<1.5
1,3,5-Trimethylbenzene	<254	<33.2	<36.0	<127	<1.6
1,3-Butadiene	<114	<14.9	<16.2	<57.2	<0.72
1,3-Dichlorobenzene	<305	<39.8	<43.2	<153	<1.9
1,4-Dichlorobenzene	<305	<39.8	<43.2	<153	<1.9
2-Butanone (MEK)	<153	<19.9	<21.6	<76.3	41.4
2-Hexanone	<211	<27.6	<29.9	<106	<1.3
2-Propanol	<636	<83.0	<90.0	<318	21.9
4-Ethyltoluene	<636	<83.0	<90.0	<318	<4.0
4-Methyl-2-pentanone (MIBK)	<211	<27.6	<29.9	<106	8.3
Acetone	<122	88.4	25.4	<61.1	29.0
Benzene	<82.7	<21.6	<23.4	<41.3	<1.0
Benzyl chloride	<267	<34.9	<37.8	<134	<1.7
Bromodichloromethane	<356	<46.5	<50.4	<178	<2.2
Bromoform	<534	<69.7	<75.6	<267	<3.3
Bromomethane	<201	<26.2	<28.4	<100	<1.3
Carbon disulfide	<160	<20.9	<22.7	<80.1	<1.0
Carbon tetrachloride	<163	<43.2	<46.8	<81.4	<2.1
Chlorobenzene	<239	<31.2	<33.8	<120	<1.5
Chloroethane	<137	<17.9	<19.4	<68.7	<0.86
Chloroform	<252	<32.9	<35.6	<126	4.9
Chloromethane	<107	<13.9	<15.1	<53.4	<0.67
cis-1,2-Dichloroethene	<206	<26.9	<29.2	<103	36.3
cis-1,3-Dichloropropene	<234	<30.5	<33.1	<117	<1.5
Cyclohexane	<173	<22.6	<24.5	<86.5	<1.1
Dibromochloromethane	<432	<56.4	<61.2	<216	<2.7
Dichlorodifluoromethane	<254	<33.2	<36.0	<127	<1.6
Dichlorotetrafluoroethane	<356	<46.5	<50.4	<178	<2.2
Ethanol	<483	137	139	<242	286
Ethyl acetate	<186	<24.2	<26.3	<92.9	3.4
Ethylbenzene	<224	<29.2	<31.7	<112	2.0
Hexachloro-1,3-butadiene	<560	<73.0	<79.2	<280	<3.5
m&p-Xylene	<448	<58.4	<63.4	<224	6.9
Methylene Chloride	<181	<23.6	310	<90.3	101
Methyl-tert-butyl ether	<186	<24.2	<26.3	<92.9	<1.2
Naphthalene	<687	<89.6	<97.2	<343	<4.3
n-Heptane	<211	<27.6	<29.9	<106	<1.3
n-Hexane	<183	<23.9	40.9	<91.6	<1.1
o-Xylene	<224	<29.2	<31.7	<112	5.8
Propylene	<89.0	<11.6	<12.6	<44.5	<0.56
Styrene	<221	<28.9	<31.3	<111	<1.4
Tetrachloroethane	6,270	6,840	7,340	4,590	5,040
Tetrahydrofuran	<153	<19.9	<21.6	<76.3	6.3
Toluene	<196	<25.6	<27.7	<97.9	12.3
trans-1,2-Dichloroethene	<206	<26.9	<29.2	<103	<1.3
trans-1,3-Dichloropropene	<234	<30.5	<33.1	<117	<1.5
Trichloroethene	<140	<36.5	<39.6	<70.0	14.8
Trichlorofluoromethane	<280	<36.5	<39.6	<140	<1.7
Vinyl acetate	<181	<23.6	<25.6	<90.3	<1.1
Vinyl chloride	<66.1	<17.3	<18.7	<33.1	<0.83
TOTAL VOCs	29,665	56,955	21,690	61,844	46,334

Bold: Parameter detected above the reporting limit.

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TABLE 3

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

Vinyl acetate	<181	<23.6	<25.6	<90.3	<1.1
Vinyl chloride	<66.1	<17.3	<18.7	<33.1	<0.83
TOTAL VOCs	29,665	56,955	21,690	61,844	46,334

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

TABLE 3

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

Sample ID	DPE EXHAUST 0224	DPE EXHAUST 0965	DPE EXHAUST 0096	DPE EXHAUST 764	DPE EXHAUST 1248
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	1/2-hr Composite ¹	6-hr Composite	6-hr Composite
Collected Date	12/23/2010	10/18/2010	9/27/2010	7/26/2010	6/17/2010
1,1,1-Trichloroethane	45.6	<146	<2.3	<79.2	<760
1,1,2,2-Tetrachloroethane	<46.5	<186	<3.0	<101	<968
1,1,2-Trichloroethane	<36.5	<146	<2.3	<79.2	<760
1,1,2-Trichlorotrifluoroethane	42,700	16,300	9.2	3,720	342,000
1,1-Dichloroethane	<27.2	<109	<1.7	<59.0	<567
1,1-Dichloroethene	<26.9	<108	<1.7	<58.3	<560
1,2,4-Trichlorobenzene	<32.9	<131	<2.1	<71.3	<684
1,2,4-Trimethylbenzene	<33.2	153	<5.3	<180	<1730
1,2-Dibromoethane (EDB)	<53.1	<212	<3.4	<115	<1110
1,2-Dichlorobenzene	<39.8	<159	<2.6	<86.4	<829
1,2-Dichloroethane	<27.2	<109	<1.7	<59.0	<567
1,2-Dichloropropane	<31.2	<125	<2.0	<67.7	<650
1,3,5-Trimethylbenzene	<33.2	<133	<5.3	<180	<1730
1,3-Butadiene	<14.9	<59.8	<0.96	<32.4	<311
1,3-Dichlorobenzene	<39.8	<159	<2.6	<86.4	<829
1,4-Dichlorobenzene	<39.8	<159	<2.6	<86.4	<829
2-Butanone (MEK)	26.9	1,120	12.1	<43.2	<415
2-Hexanone	<27.6	<110	<1.8	<59.8	<574
2-Propanol	<83.0	484	9.6	<180	<1730
4-Ethyltoluene	<83.0	<332	<5.3	<180	<1730
4-Methyl-2-pentanone (MIBK)	<27.6	<110	<1.8	<59.8	<574
Acetone	78.0	227	53.9	74.8	<332
Benzene	<21.6	<86.3	<1.4	<46.8	<449
Benzyl chloride	<34.9	<139	<2.2	<1210	<726
Bromodichloromethane	<46.5	<186	<3.0	<101	<968
Bromoform	<69.7	<279	<4.5	<151	<1450
Bromomethane	<26.2	<105	<1.7	<56.9	<546
Carbon disulfide	<20.9	<83.7	<1.3	<45.4	<435
Carbon tetrachloride	<43.2	<173	<2.8	<93.6	<899
Chlorobenzene	<31.2	<125	<2.0	<67.7	<650
Chloroethane	<17.9	<71.7	<1.2	<38.9	<373
Chloroform	<32.9	<131	<2.1	<71.3	<684
Chloromethane	<13.9	<55.8	1.2	<30.2	<290
cis-1,2-Dichloroethene	77.3	<108	<1.7	272	1,070
cis-1,3-Dichloropropene	<30.5	<122	<2.0	<66.2	<636
Cyclohexane	<22.6	<90.3	<1.4	<49.0	<470
Dibromochloromethane	<56.4	<226	<3.6	<122	<1180
Dichlorodifluoromethane	<33.2	<133	2.6	<72.0	<691
Dichlorotetrafluoroethane	<46.5	<186	<3.0	<101	<968
Ethanol	726	<252	48.3	<2190	<1310
Ethyl acetate	<24.2	<96.9	<1.6	<52.6	<505
Ethylbenzene	<29.2	<117	<1.9	<63.4	<608
Hexachloro-1,3-butadiene	<73.0	<292	<4.7	<158	<1520
m&p-Xylene	<58.4	<234	<3.7	<127	<1220
Methylene Chloride	<23.6	<94.3	294	<51.1	<491
Methyl-tert-butyl ether	<24.2	<96.9	<1.6	<52.6	<505
Naphthalene	<89.6	<359	<5.8	<194	<1870
n-Heptane	<27.6	<110	<1.8	<59.8	<574
n-Hexane	<23.9	<95.6	45.9	<51.8	<498
o-Xylene	<29.2	<117	<1.9	<63.4	<608
Propylene	<11.6	<46.5	1.3	<25.2	<242
Styrene	<28.9	<116	<1.9	<62.6	<601
Tetrachloroethene	2,680	1,300	6.5	489,000	689,000
Tetrahydrofuran	<19.9	<79.7	<1.3	45.3	<415
Toluene	<25.6	102	21.2	<55.4	<532
trans-1,2-Dichloroethene	<26.9	<108	<1.7	<58.3	<560
trans-1,3-Dichloropropene	<30.5	<122	<2.0	<66.2	<636
Trichloroethene	<36.5	<146	42.3	101	<760
Trichlorofluoromethane	<36.5	<146	<2.3	<79.2	<760
Vinyl acetate	<23.6	<94.3	<1.5	<51.1	<491
Vinyl chloride	<17.3	<69.1	<1.1	<37.4	<359
TOTAL VOCs	19,686	548	493,213	1,032,070	50,553

Bold: Parameter detected above the reporting limit.

NA: Not analyzed

TABLE 3

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

Vinyl acetate	<23.6	<94.3	<1.5	<51.1	<491
Vinyl chloride	<17.3	<69.1	<1.1	<37.4	<359
TOTAL VOCs	19,686	548	493,213	1,032,070	50,553

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

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 726	DPE EXHAUST 1316	DPE EXHAUST 1037	DPE OUTLET 1042
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	5/12/2010	4/16/2010	3/25/2010	2/22/2010	1/14/2010
1,1,1-Trichloroethane	12.9	ND	30.7	61	ND
1,1,2,2-Tetrachloroethane	<2.7	ND	<2.5	ND	ND
1,1,2-Trichloroethane	<2.1	ND	<2.0	ND	ND
1,1,2-Trichlorotrifluoroethane	21,900	153,000	115,000	644,000	2,720,000
1,1-Dichloroethane	<1.6	ND	<1.5	ND	ND
1,1-Dichloroethene	<1.6	ND	3.0	7.66	ND
1,2,4-Trichlorobenzene	<1.9	ND	<1.8	ND	ND
1,2,4-Trimethylbenzene	<4.8	ND	12.8	ND	ND
1,2-Dibromoethane (EDB)	<3.1	ND	<2.9	ND	ND
1,2-Dichlorobenzene	5.5	ND	<2.2	ND	ND
1,2-Dichloroethane	<1.6	ND	<1.5	ND	ND
1,2-Dichloropropane	2.5	ND	<1.7	7.05	ND
1,3,5-Trimethylbenzene	<4.8	ND	<4.5	ND	ND
1,3-Butadiene	<0.87	ND	<0.81	ND	ND
1,3-Dichlorobenzene	<2.3	ND	<2.2	ND	ND
1,4-Dichlorobenzene	3.7	ND	<2.2	ND	ND
2-Butanone (MEK)	18.0	ND	44.2	12.9	ND
2-Hexanone	<1.6	ND	<1.5	ND	ND
2-Propanol	7.9	ND	19.0	NA	NA
4-Ethyltoluene	<4.8	ND	<4.5	ND	ND
4-Methyl-2-pentanone (MIBK)	<1.6	ND	<1.5	ND	ND
Acetone	509	ND	163	84.5	76,800
Benzene	<1.3	ND	<1.2	ND	ND
Benzyl chloride	<2.0	ND	<1.9	NA	NA
Bromodichloromethane	<2.7	ND	<2.5	ND	ND
Bromoform	<4.1	ND	<3.8	ND	ND
Bromomethane	<1.5	ND	<1.4	ND	ND
Carbon disulfide	7.7	ND	1.3	ND	ND
Carbon tetrachloride	<2.5	ND	<2.3	ND	ND
Chlorobenzene	3.1	ND	<1.7	ND	ND
Chloroethane	<1.0	ND	<0.97	ND	ND
Chloroform	4.9	ND	11.3	15.4	ND
Chloromethane	9.6	ND	<0.76	ND	ND
cis-1,2-Dichloroethene	33.6	ND	80.2	198	ND
cis-1,3-Dichloropropene	<1.8	ND	<1.7	ND	ND
Cyclohexane	3.7	ND	2.2	14.3	ND
Dibromochloromethane	<3.3	ND	<3.1	ND	ND
Dichlorodifluoromethane	4.1	ND	11.0	ND	ND
Dichlorotetrafluoroethane	<2.7	ND	<2.5	ND	ND
Ethanol	67.3	ND	26.1	NA	NA
Ethyl acetate	<1.4	ND	<1.3	ND	ND
Ethylbenzene	<1.7	ND	118	ND	ND
Hexachloro-1,3-butadiene	<4.2	ND	<4.0	ND	ND
m&p-Xylene	5.1	ND	456	ND	ND
Methylene Chloride	<1.4	ND	<1.3	ND	ND
Methyl-tert-butyl ether	<1.4	ND	<1.3	ND	ND
Naphthalene	<5.2	ND	<4.9	NA	NA
n-Heptane	2.0	ND	2.7	ND	ND
n-Hexane	<1.4	ND	4.7	135	ND
o-Xylene	1.8	ND	159	ND	ND
Propylene	<0.68	ND	<0.63	ND	ND
Styrene	<1.7	ND	<1.6	ND	ND
Tetrachloroethene	27,900	282,000	215,000	1,720,000	8,550,000
Tetrahydrofuran	15.0	ND	58.0	45.6	56,400
Toluene	8.0	ND	28.4	124	ND
trans-1,2-Dichloroethene	<1.6	ND	<1.5	ND	ND
trans-1,3-Dichloropropene	<1.8	ND	<1.7	ND	ND
Trichloroethene	24.5	3,730	43.7	116	ND
Trichlorofluoromethane	<2.1	ND	<2.0	ND	ND
Vinyl acetate	3.0	ND	8.9	ND	ND
Vinyl chloride	<1.0	ND	<0.94	ND	ND
TOTAL VOCs	438,730	331,284	2,364,821	11,403,200	12,510

Bold: Parameter detected above the reporting limit.

NA: Not analyzed

TABLE 3

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

Vinyl acetate	3.0	ND	8.9	ND	ND
Vinyl chloride	<1.0	ND	<0.94	ND	ND
TOTAL VOCs	438,730	331,284	2,364,821	11,403,200	12,510

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

TABLE 3

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

Sample ID	DPE-OUTLET 0903	DPE-OUTLET 1254	DPE- EFFLUENT 519	DPE- EFFLUENT 253	DPE - EFFLUENT 0680
Wells Operating	All DPE Wells	All DPE Wells	All DPE Wells	DPE-1	DPE-1
Sample Collection Method	6-hr Composite	6-hr Composite	6-hr Composite	Grab	Grab
Collected Date	12/17/2009	11/17/2009	10/16/2009	10/15/2009	9/4/2009
1,1,1-Trichloroethane	23.9	ND	81.7	4.2	127
1,1,2,2-Tetrachloroethane	ND	ND	<2.2	<2.1	<2.1
1,1,2-Trichloroethane	ND	ND	<1.7	<1.6	<1.6
1,1,2-Trichlorotrifluoroethane	4,440	72,100	172	97,900	153,000
1,1-Dichloroethane	ND	ND	<1.3	<1.2	<1.2
1,1-Dichloroethene	ND	ND	13.9	<1.2	15.0
1,2,4-Trichlorobenzene	ND	ND	<1.5	<1.5	<1.5
1,2,4-Trimethylbenzene	ND	ND	<3.8	<3.7	10.2
1,2-Dibromoethane (EDB)	ND	ND	<2.5	<2.4	<2.4
1,2-Dichlorobenzene	ND	ND	<1.8	<1.8	<1.8
1,2-Dichloroethane	ND	ND	<1.3	<1.2	<1.2
1,2-Dichloropropane	ND	ND	<1.4	<1.4	<1.4
1,3,5-Trimethylbenzene	ND	ND	<3.8	<3.7	5.0
1,3-Butadiene	ND	ND	<0.69	<0.67	<0.67
1,3-Dichlorobenzene	ND	ND	<1.8	<1.8	6.0
1,4-Dichlorobenzene	ND	ND	<1.8	<1.8	8.6
2-Butanone (MEK)	ND	ND	12.2	<0.89	15.8
2-Hexanone	ND	ND	<1.3	<1.2	<1.2
2-Propanol	NA	NA	4.9	<3.7	<3.7
4-Ethyltoluene	ND	ND	<3.8	<3.7	6.0
4-Methyl-2-pentanone (MIBK)	ND	ND	<1.3	<1.2	<1.2
Acetone	126	116	37,000	501	7,510
Benzene	16.2	ND	1.1	1.5	2.3
Benzyl chloride	NA	NA	NA	NA	NA
Bromodichloromethane	ND	ND	<2.2	<2.1	<2.1
Bromoform	ND	ND	<3.2	<3.1	<3.1
Bromomethane	ND	ND	<1.2	<1.2	<1.2
Carbon disulfide	ND	ND	<0.97	<0.93	5.9
Carbon tetrachloride	ND	ND	<2.0	<1.9	<1.9
Chlorobenzene	ND	ND	<1.4	<1.4	<1.4
Chloroethane	ND	ND	<0.83	<0.80	<0.80
Chloroform	ND	ND	25.8	<1.5	21.5
Chloromethane	ND	ND	<0.65	<0.62	<0.62
cis-1,2-Dichloroethene	47.2	118	257	21.5	2,620
cis-1,3-Dichloropropene	ND	ND	<1.4	<1.4	<1.4
Cyclohexane	766	ND	<1.0	<1.0	3.5
Dibromochloromethane	ND	ND	<2.6	<2.5	<2.5
Dichlorodifluoromethane	ND	ND	<1.5	2.8	<1.5
Dichlorotetrafluoroethane	ND	ND	<2.2	<2.1	<2.1
Ethanol	NA	NA	8.9	8.4	5.7
Ethyl acetate	ND	ND	<1.1	<1.1	<1.1
Ethylbenzene	ND	ND	7.9	<1.3	<1.3
Hexachloro-1,3-butadiene	ND	ND	<3.4	<3.3	<3.3
m&p-Xylene	ND	ND	25.0	2.6	14.2
Methylene Chloride	270	ND	<1.1	276	<1.1
Methyl-tert-butyl ether	ND	ND	<1.1	<1.1	<1.1
Naphthalene	NA	NA	5.6	<4.0	4.2
n-Heptane	ND	ND	<1.3	<1.2	2.6
n-Hexane	ND	ND	2.1	35.4	3.4
o-Xylene	ND	ND	7.5	<1.3	4.8
Propylene	ND	ND	<0.54	<0.52	<0.52
Styrene	ND	ND	<1.3	<1.3	<1.3
Tetrachloroethene	6,790	381,000	571,000	396,000	3,630,000
Tetrahydrofuran	ND	145	36.2	<0.89	31.1
Toluene	9.58	ND	17.6	10.3	14.4
trans-1,2-Dichloroethene	ND	ND	<1.2	<1.2	4.2
trans-1,3-Dichloropropene	ND	ND	<1.4	<1.4	<1.4
Trichloroethene	21.3	ND	153	13.6	1,640
Trichlorofluoromethane	ND	ND	<1.7	1.7	2.2
Vinyl acetate	ND	ND	7.4	<1.1	8.7
Vinyl chloride	ND	ND	<0.80	<0.77	<0.77
TOTAL VOCs	453,479	608,840	494,779	3,795,077	14,603,780

Bold: Parameter detected above the reporting limit.

NA: Not analyzed

TABLE 3

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

Vinyl acetate	ND	ND	7.4	<1.1	8.7
Vinyl chloride	ND	ND	<0.80	<0.77	<0.77
TOTAL VOCs	453,479	608,840	494,779	3,795,077	14,603,780

1. Flow Controller failed on 9/27/10; however, a 1/2 hour composite sample was still collected.
2. Landmark believes the

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
1/30/2013	DPE-1,2,3,4	PCE	348,000	NA	NA	NA	NA	NA	NA	6,257	2	6,259	0	0.1	5.0E-06
2/26/2013	DPE-1,2,3,4	PCE	1,600	NA	NA	NA	NA	NA	NA	33	7	40	0	0.0	3.2E-08
3/21/2013	DPE-1,2,3,4	PCE	17,500	NA	NA	NA	NA	NA	NA	323	1	324	0	0.0	2.6E-07

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
12/21/2012	1/30/2013	40	960	1,789,194	11,387	0.2	0.012	26	0	100	0.002	0.63	0.000
1/30/2013	2/26/2013	27	648	1,905,916	13,303	0.3	0.022	96	114	-19	-0.002	0.63	0.000
2/26/2013	3/21/2013	23	552	1,925,225	19,309	0.6	0.037	32	0	100	0.005	0.63	0.000

Notes:

- The initial reading of the transfer pump totalizer was 68 gallons.
- Initial sampling event to determine if groundwater treatment was necessary.
- Increase in total VOCs was from PVC glue and cement that was used during the construction of the DPE system and air stripper.
- 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.
- Increase in total VOCs was from PVC glue and cement that was used during installation of the secondary demister moisture separator.
- Flow totalizer reading switched from the analog flow meter reading to the field totalizer reading for better accuracy.
- Discharge flow meter malfunction caused invalid field totalizer reading; therefore, analog flow totalizer was used starting on 4/22/11.
- Analog flow totalizer reading on 10/27/11 was estimated from field readings from Oct. 27 and Sept 29, 2011.
- 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. Gallons treated during periods ending on Jan. 30 and Feb. 26, 2013, were calculated from field totalizer.

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	3/21/2012	3/21/2013	2/26/2013	2/26/2013	1/30/2013	1/30/2013	12/21/2012	12/21/2012
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)	<5.0	<5.0	<5.0	<5.0	<4.0	<4.0	4.5	7.4
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	<5.0	<5.0	NA*	NA*	<4.0	<4.0	NA*	NA*
2-Methylnaphthalene	<5.0	<5.0	NA*	NA*	<5.0	<5.0	NA*	NA*
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	<4.0	<4.0	<4.0	<4.0
Acetone	<20.0	<20.0	60.3	114	<25.0	<25.0	<25.0	<25.0
Acrolein	<10.0	<10.0	NA*	NA*	<10.0	<10.0	NA*	NA*
Acrylonitrile	<10.0	<10.0	NA*	NA*	<10.0	<10.0	NA*	NA*
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	<10.0	<10.0	<10.0	<10.0	<4.0	<4.0	<4.0	<4.0
Carbon disulfide	<1.0	<1.0	NA*	NA*	<1.0	<1.0	NA*	NA*
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*	<1.0	<1.0	NA*	NA*
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*	<4.0	<4.0	NA*	NA*
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	31.5	<1.0	35.4	<1.0	26.3	<1.0	71.7	7.5
Tetrahydrofuran	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	15.3	<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*	<10.0	<10.0	NA*	NA*
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	31.5	0	95.7	114	26.3	0	91.5	14.9

0 : Parameter detected above the reporting limit.

31.5 : 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	10/26/2012	10/26/2012	9/26/2012	9/26/2012	8/23/2012	8/23/2012	7/19/2012	7/19/2012
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	<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	<10.0	<10.0	<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	<10.0	<10.0	<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	35.7	1.6	21.8	1.8	45.5	<1.0	36.1	35.2
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	<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	35.7	1.6	21.8	1.8	45.5	0	36.1	35.2

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	6/14/2012	6/14/2012	5/17/2012	5/17/2012	4/17/2012	4/17/2012	3/16/2012	3/16/2012
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	1.2	<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	<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	NA*	NA*	NA*	NA*	<4.0	<4.0	NA	NA
2-Methylnaphthalene	NA*	NA*	NA*	NA*	<5.0	<5.0	NA	NA
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*	NA*	NA*	<10.0	<10.0	NA	NA
Acrylonitrile	NA*	NA*	NA*	NA*	<10.0	<10.0	NA	NA
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*	NA*	NA*	<1.0	<1.0	NA	NA
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	<4.0
Chloroprene	NA*	NA*	NA*	NA*	<1.0	<1.0	NA	NA
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*	NA*	NA*	<4.0	<4.0	NA	NA
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	39.0	3.3	22.7	<1.0	39.6	<1.0	86.5	<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	NA*	NA*	<0.40	<0.40	<10.0	<10.0	NA	NA
Vinyl chloride	<0.40	<0.40	<3.0	<3.0	<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	39	3.3	22.7	0	39.6	0	91.7	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	2/16/2012	2/16/2012	1/27/2012	1/27/2012	1/20/2012	1/20/2012	11/21/2011	11/21/2011
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	2.9	6.4	<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	8.8	<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	9.4	7.8	<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	<10.0	<10.0	<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	51.8	<1.0	76.3	<1.0	149	45.1	31.6	<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	<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	51.8	0	76.3	0	149	45.1	31.6	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	10/27/2011	10/27/2011	9/29/2011	9/29/2011	8/28/2011	8/28/2011	7/25/2011	7/25/2011
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	6.5	<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	4.9	<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	<10.0	<10.0	<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	40.3	<1.0	45.1	<1.0	50.7	<1.0	37.0	<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	40.3	0	45.1	6.5	50.7	4.9	37	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	6/16/2011	6/16/2011	5/19/2011	5/19/2011	4/22/2011	4/22/2011	3/23/2011	3/23/2011
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	<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	<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	35.0	<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	6.8
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	42.8	<1.0	21.8	<1.0	41.3	<1.0	7.6	<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	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<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	<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	42.8	0	21.8	0	41.3	0	42.6	6.8

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 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	3/1/2011	3/1/2011	1/20/2011	1/20/2011	12/23/2010	12/23/2010	10/19/2010	10/19/2010
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	2.3	<1.0	<1.0	<1.0	3.0	<1.0	1.9	<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)	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	4.5	5.6
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	<10.0	11.1	<10.0	<10.0
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	<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	<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	1.3	<1.0	<1.0	<1.0	1.8	<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	<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
Tetrachloroethane	127	<1.0	51.8	<1.0	168	<1.0	204	<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	<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	130.6	0	51.8	0	172.8	11.1	210.4	5.6

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 ²
Collected Date	7/26/2010	7/26/2010	6/17/2010	6/17/2010	5/12/2010	5/12/2010	4/16/2010	4/16/2010
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	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
1,1,2-Trichlorotrifluoroethane	<1.0	<1.0	2.6	<1.0	2.5	<1.0	1.4	<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)	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	4.9
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)	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Acetone	<10.0	<10.0	<10.0	13.3	<10.0	<10.0	<10.0	29.3
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	<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	7.2	8.7	<4.0	<4.0	10.7	491
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	1.5	<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	<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
Tetrachloroethane	<1.0	40.6	108	2.4	63.4	<1.0	48.6	<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	<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	0	40.6	119.3	15.7	65.9	0	60.7	525.2

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	AS-Influent	AS-Effluent	AS-Influent	AS-IN Vial 2	AS-Effluent
Collected Date	3/25/2010	3/25/2010	2/22/2010	2/22/2010	1/14/2010	1/14/2010	12/17/2009	12/17/2009	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	1.0	<1.0	2.1	<1.0	1.3	<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	<1.0
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	<1.0	<1.0	<1.0	<1.0	<1.0
2-Butanone (MEK)	4.9	7.5	<4.0	<4.0	7.0	<4.0	<4.0	<4.0	<4.0
2-Chloroethylvinyl ether	<10.0	<10.0	<10.0	<10.0	<25.0	<25.0	<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	11.2	29.8	<10.0	<10.0	14.6	<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	<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	37.3	38.0	<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	<1.0
Carbon tetrachloride	<4.0	<4.0	<4.0	<4.0	<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	<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	380	644	<4.0	<4.0	98.5	31.9	<1.0	<1.0	1.3
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	1.3	<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	<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	17.3	18.9	<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	<1.0
m&p-Xylene	<2.0	3.4	<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	<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	1.6	<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	<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	55.5	<1.0	69.6	<1.0	157	<1.0	<1.0	<1.0	22.7
Tetrahydrofuran	<10.0	20.3	<10.0	15.7	29.4	<10.0	11.7	11.5	<10.0
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	4.9	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0
Total VOC Concentration	507.2	763.5	73	15.7	308.8	31.9	11.7	11.5	24

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 Collected Date	AS- INFLUENT	AS- EFFLUENT	AS- Influent	AS-Effluent	AS- Influent	AS- Effluent	AS- INFLUENT	AS- EFFLUENT	AS INFLUENT	AS EFFLUENT ²	DPE Discharge ¹
	11/16/2009	11/16/2009	10/15/2009	10/15/2009	9/4/2009	9/4/2009	7/9/2009	7/9/2009	6/4/2009	6/4/2009	4/9/2009
1,1,1,2-Tetrachloroethane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<50.0	<1.0	<5.0
1,1,1-Trichloroethane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<50.0	<1.0	29.4
1,1,2,2-Tetrachloroethane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<50.0	<1.0	<5.0
1,1,2-Trichloroethane	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<20.0	<4.0	<200	<4.0	<20.0
1,1,2-Trichlorotrifluoroethane	<1.0	<1.0	1.4	<1.0	1.2	<1.0	10.4	<1.0	53.7	<1.0	7860
1,1-Dichloroethane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<50.0	<1.0	<5.0
1,1-Dichloroethene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<50.0	<1.0	<5.0
1,1-Dichloropropene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<50.0	<1.0	<5.0
1,2,3-Trichlorobenzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<50.0	<1.0	<5.0
1,2,3-Trichloropropane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<50.0	<1.0	<5.0
1,2,4-Trichlorobenzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<50.0	<1.0	<5.0
1,2,4-Trimethylbenzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<50.0	<1.0	26.0
1,2-Dibromo-3-chloropropane	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<20.0	<4.0	<200	<4.0	<20.0
1,2-Dibromoethane (EDB)	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<50.0	<1.0	<5.0
1,2-Dichlorobenzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<50.0	<1.0	<5.0
1,2-Dichloroethane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<50.0	<1.0	<5.0
1,2-Dichloropropane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<50.0	<1.0	<5.0
1,3,5-Trimethylbenzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<50.0	<1.0	7.1
1,3-Dichlorobenzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<50.0	<1.0	<5.0
1,3-Dichloropropane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<50.0	<1.0	<5.0
1,4-Dichlorobenzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<50.0	<1.0	7.8
2,2-Dichloropropane	<4.0	<4.0	<4.0	<4.0	<1.0	<1.0	<5.0	<1.0	<50.0	<1.0	<5.0
2-Butanone (MEK)	<4.0	<4.0	5.4	<4.0	13.5	19.8	<20.0	82.1	<200	1670	392
2-Chloroethylvinyl ether	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<50.0	<10.0	<1250	<25.0	<50.0
2-Chlorotoluene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<50.0	<1.0	51.0
2-Hexanone	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<20.0	<4.0	<200	<4.0	<20.0
2-Methylnaphthalene	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<25.0	<5.0	<250	<5.0	<25.0
4-Chlorotoluene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<50.0	<1.0	<5.0
4-Methyl-2-pentanone (MIBK)	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<25.0	<5.0	<250	<5.0	<25.0
Acetone	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<50.0	68.7	<500	987	<50.0
Acrolein	<40.0	<40.0	<40.0	<40.0	<40.0	<40.0	<200	<40.0	<2000	<40.0	<200
Acrylonitrile	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<50.0	<10.0	<500	<10.0	<50.0
Allyl chloride	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<20.0	<4.0	<200	<4.0	<20.0
Benzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<50.0	<1.0	<5.0
Bromobenzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<50.0	<1.0	<5.0
Bromochloromethane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<50.0	<1.0	<5.0
Bromodichloromethane	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<20.0	<4.0	<200	<4.0	<20.0
Bromoform	<8.0	<8.0	<8.0	<8.0	<8.0	<8.0	<40.0	<8.0	<400	<8.0	<40.0
Bromomethane	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<20.0	<4.0	<200	<4.0	<20.0
Carbon disulfide	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<50.0	<1.0	<5.0
Carbon tetrachloride	<4.0	<4.0	<4.0	<4.0	<1.0	<1.0	<5.0	<1.0	<50.0	<1.0	<5.0
Chlorobenzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<50.0	<1.0	<5.0
Chloroethane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<50.0	<1.0	<5.0
Chloroform	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<50.0	<1.0	<5.0
Chloromethane	<4.0	<4.0	<1.0	<1.0	<1.0	<1.0	63.3	76.4	<50.0	<1.0	<5.0
Chloroprene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<50.0	<1.0	<5.0
cis-1,2-Dichloroethene	<1.0	<1.0	1.5	<1.0	1.5	<1.0	13.0	<1.0	62.9	<1.0	206
cis-1,3-Dichloropropene	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<20.0	<4.0	<200	<4.0	<20.0
Dibromochloromethane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<50.0	<1.0	<5.0
Dibromomethane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<50.0	<1.0	<5.0
Dichlorodifluoromethane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<50.0	<1.0	<5.0
Dichlorofluoromethane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<50.0	<1.0	<5.0
Diethyl ether (Ethyl ether)	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<20.0	<4.0	<200	<4.0	<20.0
Ethylbenzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<50.0	<1.0	<5.0
Hexachloro-1,3-butadiene	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<20.0	<4.0	<200	<4.0	<20.0
Iodomethane	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<20.0	<4.0	<200	<4.0	<20.0
Isopropylbenzene (Cumene)	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<50.0	<1.0	<5.0
m&p-Xylene	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<10.0	<2.0	<100	<2.0	<10.0
Methylene Chloride	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<20.0	<4.0	<200	<4.0	<20.0
Methyl-tert-butyl ether	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<50.0	<1.0	<5.0
Naphthalene	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<20.0	<4.0	<200	<4.0	<20.0
n-Butylbenzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<50.0	<1.0	5.0
n-Propylbenzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<50.0	<1.0	<5.0
o-Xylene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<50.0	<1.0	<5.0
p-Isopropyltoluene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<50.0	<1.0	<5.0
sec-Butylbenzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<50.0	<1.0	<5.0
Styrene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<50.0	<1.0	<5.0
tert-Butylbenzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<50.0	<1.0	<5.0
Tetrachloroethene	30.7	<1.0	214	<1.0	175	<1.0	1460	<1.0	3970	33.8	167000
Tetrahydrofuran	<10.0	<10.0	15.7	<10.0	<10.0	<10.0	<50.0	252	543	6300	600
Toluene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<50.0	<1.0	<5.0
trans-1,2-Dichloroethene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<50.0	<1.0	<5.0
trans-1,3-Dichloropropene	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<20.0	<4.0	<200	<4.0	<20.0
Trichloroethene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<50.0	<1.0	159
Trichlorofluoromethane	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<20.0	<4.0	<200	<4.0	<20.0
Vinyl acetate	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0	<100	<20.0	<1000	<20.0	<100
Vinyl chloride	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<2.0	<0.40	<20.0	<0.40	<2.0
Xylene (Total)	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<15.0	<3.0	<150	<3.0	<15.0
Total VOC Concentration	30.7	0	238	0	191.2	19.8	1,546.7	479.2	4,566.7	8,990.8	176,338.3

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
MW-14	1/30/2013	989.50	13.42	976.08	DPE-1,2,3,4
MW-14	2/26/2013	989.50	13.41	976.09	DPE-1,2,3,4
MW-14	3/21/2013	989.50	13.47	976.03	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
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
MW-15	1/30/2013	991.50	16.72	974.78	DPE-1,2,3,4
MW-15	2/26/2013	991.50	15.96	975.54	DPE-1,2,3,4
MW-15	3/21/2013	991.50	16.79	974.71	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
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	1/20/2012	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
MW-16	1/30/2013	989.44	14.46	974.98	DPE-1,2,3,4
MW-16	2/26/2013	989.44	14.04	975.40	DPE-1,2,3,4
MW-16	3/21/2013	989.44	14.69	974.75	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
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
MW-17	1/30/2013	989.53	13.92	975.61	DPE-1,2,3,4
MW-17	2/26/2013	989.53	14.28	975.25	DPE-1,2,3,4
MW-17	3/21/2013	989.53	14.30	975.23	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
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
MW-18	1/30/2013	989.50	14.25	975.25	DPE-1,2,3,4
MW-18	2/26/2013	989.50	14.84	974.66	DPE-1,2,3,4
MW-18	3/21/2013	989.50	14.83	974.67	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
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
MW-19	1/30/2013	991.13	15.39	975.74	DPE-1,2,3,4
MW-19	2/26/2013	991.13	15.78	975.35	DPE-1,2,3,4
MW-19	3/21/2013	991.13	15.70	975.43	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
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
MW-20	1/30/2013	991.50	14.09	977.41	DPE-1,2,3,4
MW-20	2/26/2013	991.50	14.26	977.24	DPE-1,2,3,4
MW-20	3/21/2013	991.50	13.83	977.67	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
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
DPE-1	1/30/2013	992.40	17.86	974.54	DPE-1,2,3,4
DPE-1	2/26/2013	992.40	16.94	975.46	DPE-1,2,3,4
DPE-1	3/21/2013	992.40	18.40	974.00	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
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
DPE-2	1/30/2013	992.80	17.41	975.39	DPE-1,2,3,4
DPE-2	2/26/2013	992.80	17.20	975.60	DPE-1,2,3,4
DPE-2	3/21/2013	992.80	17.33	975.47	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
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
DPE-3	1/30/2013	992.48	18.33	974.15	DPE-1,2,3,4
DPE-3	2/26/2013	992.48	18.14	974.34	DPE-1,2,3,4
DPE-3	3/21/2013	992.48	17.78	974.70	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
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
DPE-4	1/30/2013	992.40	17.73	974.67	DPE-1,2,3,4
DPE-4	2/26/2013	992.40	17.69	974.71	DPE-1,2,3,4
DPE-4	3/21/2013	992.40	17.76	974.64	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
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
DPE-5	1/30/2013	992.46	17.21	975.25	DPE-1,2,3,4
DPE-5	2/26/2013	992.46	16.81	975.65	DPE-1,2,3,4
DPE-5	3/21/2013	992.46	17.48	974.98	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
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
DPE-6	1/30/2013	992.40	16.63	975.77	DPE-1,2,3,4
DPE-6	2/26/2013	992.40	16.59	975.81	DPE-1,2,3,4
DPE-6	3/21/2013	992.40	16.61	975.79	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
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
DPE-7	1/30/2013	993.48	17.86	975.62	DPE-1,2,3,4
DPE-7	2/26/2013	993.48	17.66	975.82	DPE-1,2,3,4
DPE-7	3/21/2013	993.48	18.03	975.45	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
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
DPE-8	1/30/2013	992.84	DRY	NA	DPE-1,2,3,4
DPE-8	2/26/2013	992.84	DRY	NA	DPE-1,2,3,4
DPE-8	3/21/2013	992.84	DRY	NA	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	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
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

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 Drantile Sump	1/6/2011	990.20	NA	NA	DPE System on all wells
Elevator Drantile Sump	1/20/2011	990.20	6.84	983.36	DPE System on all wells
Elevator Drantile Sump	2/28/2011	990.20	7.03	983.17	DPE System on all wells
Elevator Drantile Sump	3/7/2011	990.20	6.91	983.29	DPE System on all wells
Elevator Drantile Sump	3/18/2011	990.20	6.97	983.23	DPE System on all wells
Elevator Drantile Sump	3/23/2011	990.20	6.76	983.44	DPE System on all wells
Elevator Drantile Sump	4/22/2011	990.20	6.52	983.68	DPE System on all wells
Elevator Drantile Sump	5/19/2011	990.20	6.27	983.93	DPE System on all wells
Elevator Drantile Sump	6/16/2011	990.20	6.52	983.68	DPE System on all wells
Elevator Drantile Sump	7/25/2011	990.20	5.58	984.62	DPE System on all wells
Elevator Drantile Sump	8/28/2011	990.20	6.56	983.64	DPE System on all wells
Elevator Drantile Sump	9/29/2011	990.20	6.97	983.23	DPE-1,2,3,4
Elevator Drantile Sump	10/18/2011	990.20	6.68	983.52	DPE-1,2,3,4
Elevator Drantile Sump	10/27/2011	990.20	7.01	983.19	DPE-1,2,3,4
Elevator Drantile Sump	11/21/2011	990.20	7.31	982.89	DPE-1,2,3,4
Elevator Drantile Sump	1/20/2012	990.20	7.33	982.87	DPE-1,2,3,4
Elevator Drantile Sump	1/27/2012	990.20	7.38	982.82	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 Drantile Sump	2/16/2012	990.20	7.44	982.76	DPE-1,2,3,4
Elevator Drantile Sump	3/16/2012	990.20	7.61	982.59	DPE-1,2,3,4
Elevator Drantile Sump	4/17/2012	990.20	7.97	982.23	DPE-1,2,3,4
Elevator Drantile Sump	5/17/2012	990.20	DRY	NA	DPE-1,2,3,4
Elevator Drantile Sump	5/31/2012	990.20	6.99	983.21	DPE-1,2,3,4
Elevator Drantile Sump	6/14/2012	990.20	7.11	983.09	DPE-1,2,3,4
Elevator Drantile Sump	7/19/2012	990.20	7.09	983.11	DPE-3
Elevator Drantile Sump	8/23/2012	990.20	6.88	983.32	DPE-3
Elevator Drantile Sump	9/26/2012	990.20	7.19	983.01	DPE-3
Elevator Drantile Sump	10/26/2012	990.20	7.41	982.79	DPE-3
Elevator Drantile Sump	12/19/2012	990.20	7.33	982.87	DPE-3; Before restarting the system
Elevator Drantile Sump	12/21/2012	990.20	7.36	982.84	DPE-3; After restarting the system
Elevator Drantile Sump	1/30/2013	990.20	7.48	982.72	DPE-1,2,3,4
Elevator Drantile Sump	2/26/2013	990.20	7.70	982.50	DPE-1,2,3,4
Elevator Drantile Sump	3/21/2013	990.20	7.18	983.02	DPE-1,2,3,4

Notes:

NR: Not Recorded

- Monitoring well top of casing elevations were surveyed by Adolfson and Peterson on 4/22/08.
- 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.
- Elevations are in feet above mean sea level.

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	
2/25/2013	<1.0	-100.0	
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	
2/25/2013	<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	
2/25/2013	8.0	-99.9	

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	
2/25/2013	49.9	-86.3	
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	
2/25/2013	2.3	-99.1	
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	
2/25/2013	<1.0	-100.0	

TABLE 9

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

Sample ID	Date	PCE Conc. (ug/L)	% Change
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	
2/25/2013	50.2	-91.6	
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	
2/26/2013	171.0	-99.9	
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	
2/26/2013	140	-99.6	

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	
2/26/2013	264	-99.8	
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	
2/26/2013	219	-99.4	
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	
2/26/2013	31	-97.7	

TABLE 9

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

Sample ID	Date	PCE Conc. (ug/L)	% Change
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	
2/26/2013	19.8	-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	
2/26/2013	8	-64.1	
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	
2/26/2013	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	MDH Health Risk Limits 5/09	DPE-1 2/25/2013	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	<1.0
1,1,1-Trichloroethane	9000	<1.0	<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	<1.0
1,1,2-Trichloroethane	3	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1,2-Trichlorotrifluoroethane	200000	7.9	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	<1.0
1,1-Dichloroethene	6	<1.0	<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	<1.0
1,2,3-Trichlorobenzene	NL	<1.0	<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	<4.0
1,2,4-Trichlorobenzene	NL	<1.0	<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	<1.0
1,2-Dibromo-3-chloropropane	NL	<4.0	<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	<1.0
1,2-Dichlorobenzene	600	<1.0	<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	<1.0
1,2-Dichloropropane	5	<4.0	<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	<1.0
1,3-Dichlorobenzene	NL	<1.0	<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	<1.0
1,4-Dichlorobenzene	10	<1.0	<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	<4.0
2-Butanone (MEK)	4000	<4.0	<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	<1.0
4-Chlorotoluene	NL	<1.0	<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	<4.0
Acetone	700	<25.0	<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	<4.0
Benzene	2	<1.0	<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	<1.0
Bromochloromethane	NL	<1.0	<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	<1.0
Bromoform	40	<4.0	<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	<10.0
Carbon tetrachloride	3	<1.0	<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	<1.0
Chloroethane	300	<1.0	<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	<1.0
Chloromethane	NL	<4.0	<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	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	<4.0
Dibromochloromethane	10	<1.0	<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	<4.0
Dichlorodifluoromethane	1000	<1.0	<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	<1.0
Diethyl ether (Ethyl ether)	1000	<4.0	<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	<1.0
Hexachloro-1,3-butadiene	1	<5.0	<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	<1.0
m&p-Xylene	NL	<2.0	<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	<4.0
Methyl-tert-butyl ether	70	<1.0	<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	<4.0
n-Butylbenzene	NL	<1.0	<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	<1.0
o-Xylene	NL	<1.0	<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	<1.0
sec-Butylbenzene	NL	<1.0	<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	<1.0
tert-Butylbenzene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Tetrachloroethene	5	171	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	<10.0
Toluene	1000	<1.0	<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	<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	<4.0
Trichloroethene	5	<1.0	<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	<1.0
Vinyl chloride	0.2	<0.40	<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	<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	DPE-1	DPE-1	DPE-1	DPE-1	DPE-1	DPE-1	DPE-1
		12/22/10	08/18/10	05/13/10	02/22/10	11/16/09	09/28/09	12/10/08	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 Collected Date and Time	MDH Health Risk Limits 5/09	DPE-2	DPE-2	DPE-2	DPE-2	DPE-2	DPE-2	DPE-2	DPE-2
		02/25/13	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	<2.0	<5.0	<10.0	<10.0	<1.0
1,1,1-Trichloroethane	9000	<1.0	<1.0	<1.0	<2.0	<5.0	<10.0	<10.0	<1.0
1,1,2,2-Tetrachloroethane	2	<1.0	<1.0	<1.0	<2.0	<5.0	<10.0	<10.0	<1.0
1,1,2-Trichloroethane	3	<1.0	<1.0	<1.0	<2.0	<5.0	<10.0	<10.0	<1.0
1,1,2-Trichlorotrifluoroethane	200000	16.0	43.5	3.1	23.8	41.5	110	212	199
1,1-Dichloroethane	70	<1.0	<1.0	<1.0	<2.0	<5.0	<10.0	<10.0	<1.0
1,1-Dichloroethene	6	<1.0	<1.0	<1.0	<2.0	<5.0	<10.0	<10.0	<1.0
1,1-Dichloropropene	NL	<1.0	<1.0	<1.0	<2.0	<5.0	<10.0	<10.0	<1.0
1,2,3-Trichlorobenzene	NL	<1.0	<1.0	<1.0	<2.0	<5.0	<10.0	<10.0	<1.0
1,2,3-Trichloropropane	40	<4.0	<4.0	<4.0	<8.0	<20.0	<40.0	<40.0	<4.0
1,2,4-Trichlorobenzene	NL	<1.0	<1.0	<1.0	<2.0	<5.0	<10.0	<10.0	<1.0
1,2,4-Trimethylbenzene	NL	<1.0	<1.0	<1.0	<2.0	<5.0	<10.0	<10.0	<1.0
1,2-Dibromo-3-chloropropane	NL	<4.0	<4.0	<4.0	<8.0	<20.0	<40.0	<40.0	<4.0
1,2-Dibromoethane (EDB)	.004	<1.0	<1.0	<1.0	<2.0	<5.0	<10.0	<10.0	<1.0
1,2-Dichlorobenzene	600	<1.0	<1.0	<1.0	<2.0	<5.0	<10.0	<10.0	<1.0
1,2-Dichloroethane	4	<1.0	<1.0	<1.0	<2.0	<5.0	<10.0	<10.0	<1.0
1,2-Dichloropropane	5	<4.0	<4.0	<4.0	<8.0	<20.0	<40.0	<40.0	<4.0
1,3,5-Trimethylbenzene	100	<1.0	<1.0	<1.0	<2.0	<5.0	<10.0	<10.0	<1.0
1,3-Dichlorobenzene	NL	<1.0	<1.0	<1.0	<2.0	<5.0	<10.0	<10.0	<1.0
1,3-Dichloropropane	NL	<1.0	<1.0	<1.0	<2.0	<5.0	<10.0	<10.0	<1.0
1,4-Dichlorobenzene	10	<1.0	<1.0	<1.0	<2.0	<5.0	<10.0	<10.0	<1.0
2,2-Dichloropropane	NL	<4.0	<4.0	<4.0	<8.0	<20.0	<40.0	<40.0	<4.0
2-Butanone (MEK)	4000	<4.0	<4.0	<4.0	<8.0	<20.0	<40.0	<40.0	<4.0
2-Chlorotoluene	NL	<1.0	<1.0	<1.0	<2.0	<5.0	<10.0	<10.0	<1.0
4-Chlorotoluene	NL	<1.0	<1.0	<1.0	<2.0	<5.0	<10.0	<10.0	<1.0
4-Methyl-2-pentanone (MIBK)	300	<4.0	<4.0	<4.0	<8.0	<20.0	<40.0	<40.0	<4.0
Acetone	700	<25.0	<25.0	<25.0	<50.0	<125	<250	<250	<25.0
Allyl chloride	30	<4.0	<4.0	<4.0	<8.0	<20.0	<40.0	<40.0	<4.0
Benzene	2	<1.0	<1.0	<1.0	<2.0	<5.0	<10.0	<10.0	<1.0
Bromobenzene	NL	<1.0	<1.0	<1.0	<2.0	<5.0	<10.0	<10.0	<1.0
Bromochloromethane	NL	<1.0	<1.0	<1.0	<2.0	<5.0	<10.0	<10.0	<1.0
Bromodichloromethane	6	<1.0	<1.0	<1.0	<2.0	<5.0	<10.0	<10.0	<1.0
Bromoform	40	<4.0	<4.0	<4.0	<8.0	<20.0	<40.0	<40.0	<4.0
Bromomethane	10	<4.0	<4.0	<4.0	<8.0	<20.0	<40.0	<40.0	<4.0
Carbon tetrachloride	3	<1.0	<1.0	<1.0	<2.0	<5.0	<10.0	<10.0	<1.0
Chlorobenzene	100	<1.0	<1.0	<1.0	<2.0	<5.0	<10.0	<10.0	<1.0
Chloroethane	300	<1.0	<1.0	<1.0	<2.0	<5.0	<10.0	<10.0	<1.0
Chloroform	30	<1.0	<1.0	<1.0	<2.0	<5.0	<10.0	<10.0	3.1
Chloromethane	NL	<4.0	<4.0	<4.0	<8.0	<20.0	<40.0	<40.0	<4.0
cis-1,2-Dichloroethene	50	<1.0	1.8	<1.0	<2.0	<5.0	<10.0	<10.0	5.5
cis-1,3-Dichloropropene	NL	<4.0	<4.0	<4.0	<8.0	<20.0	<40.0	<40.0	<4.0
Dibromochloromethane	10	<1.0	<1.0	<1.0	<2.0	<5.0	<10.0	<10.0	<1.0
Dibromomethane	NL	<4.0	<4.0	<4.0	<8.0	<20.0	<40.0	<40.0	<4.0
Dichlorodifluoromethane	1000	<1.0	<1.0	<1.0	<2.0	<5.0	<10.0	<10.0	<1.0
Dichlorofluoromethane	NL	<1.0	<1.0	<1.0	<2.0	<5.0	<10.0	<10.0	<1.0
Diethyl ether (Ethyl ether)	1000	<4.0	<4.0	<4.0	<8.0	<20.0	<40.0	<40.0	<4.0
Ethylbenzene	700	<1.0	<1.0	<1.0	<2.0	<5.0	<10.0	<10.0	<1.0
Hexachloro-1,3-butadiene	1	<5.0	<5.0	<5.0	<10.0	<25.0	<50.0	<50.0	<5.0
Isopropylbenzene (Cumene)	300	<1.0	<1.0	<1.0	<2.0	<5.0	<10.0	<10.0	<1.0
m&p-Xylene	NL	<2.0	<2.0	<2.0	<4.0	<10.0	<20.0	<20.0	<2.0
Methylene Chloride	5	<4.0	<4.0	<4.0	<8.0	<20.0	<40.0	<40.0	<4.0
Methyl-tert-butyl ether	70	<1.0	<1.0	<1.0	<2.0	<5.0	<10.0	<10.0	<1.0
Naphthalene	300	<4.0	<4.0	<4.0	<8.0	<20.0	<40.0	<40.0	<4.0
n-Butylbenzene	NL	<1.0	<1.0	<1.0	<2.0	<5.0	<10.0	<10.0	<1.0
n-Propylbenzene	NL	<1.0	<1.0	<1.0	<2.0	<5.0	<10.0	<10.0	<1.0
o-Xylene	NL	<1.0	<1.0	<1.0	<2.0	<5.0	<10.0	<10.0	<1.0
p-Isopropyltoluene	NL	<1.0	<1.0	<1.0	<2.0	<5.0	<10.0	<10.0	<1.0
sec-Butylbenzene	NL	<1.0	<1.0	<1.0	<2.0	<5.0	<10.0	<10.0	<1.0
Styrene	NL	<1.0	<1.0	<1.0	<2.0	<5.0	<10.0	<10.0	<1.0
tert-Butylbenzene	NL	<1.0	<1.0	<1.0	<2.0	<5.0	<10.0	<10.0	<1.0
Tetrachloroethene	5	140	746	39.0	206	511	890	2080	1680
Tetrahydrofuran	100	<10.0	<10.0	<10.0	<20.0	<50.0	<100	<100	<10.0
Toluene	1000	<1.0	<1.0	<1.0	<2.0	<5.0	<10.0	<10.0	<1.0
trans-1,2-Dichloroethene	100	<1.0	<1.0	<1.0	<2.0	<5.0	<10.0	<10.0	<1.0
trans-1,3-Dichloropropene	NL	<4.0	<4.0	<4.0	<8.0	<20.0	<40.0	<40.0	<4.0
Trichloroethene	5	<1.0	1.6	<1.0	<2.0	<5.0	<10.0	<10.0	2.2
Trichlorofluoromethane	2000	<1.0	<1.0	<1.0	<2.0	<5.0	<10.0	<10.0	<1.0
Vinyl chloride	0.2	<0.40	<0.40	<0.40	<0.80	<2.0	<4.0	<4.0	<0.40
Xylene (Total)	10000	<3.0	<3.0	<3.0	<6.0	<15.0	<30.0	<30.0	<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-2	DPE-2	DPE-2	DPE-2	DPE-2	DPE-2	DPE-2	DPE-2
		03/01/11	12/22/10	08/18/10	05/13/10	02/22/10	11/17/2009	09/28/09	12/10/08
1,1,1,2-Tetrachloroethane	70	<25.0	<50.0	<50.0	<1.0	<20.0	<100	<250	NA*
1,1,1-Trichloroethane	9000	<25.0	<50.0	<50.0	2.9	<20.0	<100	<250	NA*
1,1,2,2-Tetrachloroethane	2	<25.0	<50.0	<50.0	<1.0	<20.0	<100	<250	NA*
1,1,2-Trichloroethane	3	<25.0	<50.0	<50.0	<1.0	<20.0	<100	<250	NA*
1,1,2-Trichlorotrifluoroethane	200000	<25.0	356	997	673	305	1,270	1,620	NA*
1,1-Dichloroethane	70	<25.0	<50.0	<50.0	<1.0	<20.0	<100	<250	NA*
1,1-Dichloroethene	6	<25.0	<50.0	<50.0	<1.0	<20.0	<100	<250	<500
1,1-Dichloropropene	NL	<25.0	<50.0	<50.0	<1.0	<20.0	<100	<250	NA*
1,2,3-Trichlorobenzene	NL	<25.0	<50.0	<50.0	<1.0	<20.0	<100	<250	NA*
1,2,3-Trichloropropane	40	<100	<50.0	<50.0	<1.0	<20.0	<100	<250	NA*
1,2,4-Trichlorobenzene	NL	<25.0	<50.0	<50.0	<1.0	<20.0	<100	<250	NA*
1,2,4-Trimethylbenzene	NL	<25.0	<50.0	<50.0	<1.0	<20.0	<100	<250	NA*
1,2-Dibromo-3-chloropropane	NL	<100	<200	<200	<4.0	<80.0	<400	<1000	NA*
1,2-Dibromoethane (EDB)	.004	<25.0	<50.0	<50.0	<1.0	<20.0	<100	<250	NA*
1,2-Dichlorobenzene	600	<25.0	<50.0	<50.0	<1.0	<20.0	<100	<250	NA*
1,2-Dichloroethane	4	<25.0	<50.0	<50.0	<1.0	<20.0	<100	<250	NA*
1,2-Dichloropropane	5	<25.0	<50.0	<50.0	1.3	<20.0	<100	<250	NA*
1,3,5-Trimethylbenzene	100	<25.0	<50.0	<50.0	<1.0	<20.0	<100	<250	NA*
1,3-Dichlorobenzene	NL	<25.0	<50.0	<50.0	<1.0	<20.0	<100	<250	NA*
1,3-Dichloropropane	NL	<25.0	<50.0	<50.0	<1.0	<20.0	<100	<250	NA*
1,4-Dichlorobenzene	10	<25.0	<50.0	<50.0	<1.0	<20.0	<100	<250	NA*
2,2-Dichloropropane	NL	<100	<200	<200	<4.0	<20.0	<400	<250	NA*
2-Butanone (MEK)	4000	<100	<200	<200	<4.0	<80.0	<400	<1000	NA*
2-Chlorotoluene	NL	<25.0	<50.0	<50.0	<1.0	<20.0	<100	<250	NA*
4-Chlorotoluene	NL	<25.0	<50.0	<50.0	<1.0	<20.0	<100	<250	NA*
4-Methyl-2-pentanone (MIBK)	300	<100	<200	<200	<4.0	<80.0	<400	<1000	NA*
Acetone	700	<625	<500	<500	<10.0	<200	<1000	<2500	NA*
Allyl chloride	30	<100	<200	<200	<4.0	<80.0	<400	<1000	NA*
Benzene	2	<25.0	<50.0	<50.0	<1.0	<20.0	<100	<250	NA*
Bromobenzene	NL	<25.0	<50.0	<50.0	<1.0	<20.0	<100	<250	NA*
Bromochloromethane	NL	<25.0	<50.0	<50.0	<1.0	<20.0	<100	<250	NA*
Bromodichloromethane	6	<25.0	<50.0	<50.0	<1.0	<20.0	<100	<250	NA*
Bromoform	40	<200	<400	<400	<8.0	<160	<800	<2000	NA*
Bromomethane	10	<250	<200	<200	<4.0	<80.0	<400	<1000	NA*
Carbon tetrachloride	3	<100	<200	<200	<4.0	<20.0	<400	<250	NA*
Chlorobenzene	100	<25.0	<50.0	<50.0	<1.0	<20.0	<100	<250	NA*
Chloroethane	300	<25.0	<50.0	<50.0	<1.0	<20.0	<100	<250	NA*
Chloroform	30	<25.0	<50.0	<50.0	3.7	<20.0	<100	<250	NA*
Chloromethane	NL	<100	<200	<200	<4.0	<80.0	<400	<1000	NA*
cis-1,2-Dichloroethene	50	<25.0	<50.0	<50.0	25.8	<20.0	<100	<250	<500
cis-1,3-Dichloropropene	NL	<100	<200	<200	<4.0	<80.0	<400	<1000	NA*
Dibromochloromethane	10	<25.0	<50.0	<50.0	<1.0	<20.0	<100	<250	NA*
Dibromomethane	NL	<100	<200	<200	<4.0	<20.0	<100	<250	NA*
Dichlorodifluoromethane	1000	<25.0	<50.0	<50.0	<1.0	<20.0	<100	<250	NA*
Dichlorofluoromethane	NL	<25.0	<50.0	<50.0	<1.0	<20.0	<100	<250	NA*
Diethyl ether (Ethyl ether)	1000	<100	<200	<200	<4.0	<80.0	<400	<1000	NA*
Ethylbenzene	700	<25.0	<50.0	<50.0	<1.0	<20.0	<100	<250	NA*
Hexachloro-1,3-butadiene	1	<100	<200	<200	<4.0	<80.0	<400	<1000	NA*
Isopropylbenzene (Cumene)	300	<25.0	<50.0	<50.0	<1.0	<20.0	<100	<250	NA*
m&p-Xylene	NL	<50.0	<100	<100	<2.0	<40.0	<200	<500	NA*
Methylene Chloride	5	<100	<200	<200	<4.0	<80.0	<400	<1000	NA*
Methyl-tert-butyl ether	70	<25.0	<50.0	<50.0	<1.0	<20.0	<100	<250	NA*
Naphthalene	300	<100	<200	<200	<4.0	<80.0	<400	<1000	NA*
n-Butylbenzene	NL	<25.0	<50.0	<50.0	<1.0	<20.0	<100	<250	NA*
n-Propylbenzene	NL	<25.0	<50.0	<50.0	<1.0	<20.0	<100	<250	NA*
o-Xylene	NL	<25.0	<50.0	<50.0	<1.0	<20.0	<100	<250	NA*
p-Isopropyltoluene	NL	<25.0	<50.0	<50.0	<1.0	<20.0	<100	<250	NA*
sec-Butylbenzene	NL	<25.0	<50.0	<50.0	<1.0	<20.0	<100	<250	NA*
Styrene	NL	<25.0	<50.0	<50.0	<1.0	<20.0	<100	<250	NA*
tert-Butylbenzene	NL	<25.0	<50.0	<50.0	<1.0	<20.0	<100	<250	NA*
Tetrachloroethane	5	2,990	4,690	12,100	5,800	2,710	10,600	32,000	38,200
Tetrahydrofuran	100	<250	<500	<500	<10.0	<200	<1000	<2500	NA*
Toluene	1000	<25.0	<50.0	<50.0	<1.0	<20.0	<100	<250	NA*
trans-1,2-Dichloroethene	100	<25.0	<50.0	<50.0	<1.0	<20.0	<100	<250	<500
trans-1,3-Dichloropropene	NL	<100	<200	<200	<4.0	<80.0	<400	<1000	NA*
Trichloroethene	5	<25.0	<50.0	<50.0	7.5	<20.0	<100	<250	<500
Trichlorofluoromethane	2000	<25.0	<50.0	<50.0	<1.0	<20.0	<100	<250	NA*
Vinyl chloride	0.2	<10.0	<20.0	<20.0	<0.40	<8.0	<40.0	<100	<200
Xylene (Total)	10000	<75.0	<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 Collected Date and Time	MDH Health Risk Limits 5/09	DPE-3	DPE-3	DPE-3	DPE-3	DPE-3	DPE-3	DPE-3	DPE-3
		02/25/13	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	<20.0	<10.0	<25.0	<25.0	<20.0
1,1,1-Trichloroethane	9000	<1.0	4.2	<1.0	<20.0	<10.0	<25.0	<25.0	<20.0
1,1,2,2-Tetrachloroethane	2	<1.0	<1.0	<1.0	<20.0	<10.0	<25.0	<25.0	<20.0
1,1,2-Trichloroethane	3	<1.0	<1.0	<1.0	<20.0	<10.0	<25.0	<25.0	<20.0
1,1,2-Trichlorotrifluoroethane	200000	15.8	232	2.7	414	251	787	348	343
1,1-Dichloroethane	70	<1.0	<1.0	<1.0	<20.0	<10.0	<25.0	<25.0	<20.0
1,1-Dichloroethene	6	<1.0	<1.0	<1.0	<20.0	<10.0	<25.0	<25.0	<20.0
1,1-Dichloropropene	NL	<1.0	<1.0	<1.0	<20.0	<10.0	<25.0	<25.0	<20.0
1,2,3-Trichlorobenzene	NL	<1.0	<1.0	<1.0	<20.0	<10.0	<25.0	<25.0	<20.0
1,2,3-Trichloropropane	40	<4.0	<4.0	<4.0	<80.0	<40.0	<100	<100	<80.0
1,2,4-Trichlorobenzene	NL	<1.0	<1.0	<1.0	<20.0	<10.0	<25.0	<25.0	<20.0
1,2,4-Trimethylbenzene	NL	<1.0	<1.0	<1.0	<20.0	<10.0	<25.0	<25.0	<20.0
1,2-Dibromo-3-chloropropane	NL	<4.0	<4.0	<4.0	<80.0	<40.0	<100	<100	<80.0
1,2-Dibromoethane (EDB)	.004	<1.0	<1.0	<1.0	<20.0	<10.0	<25.0	<25.0	<20.0
1,2-Dichlorobenzene	600	<1.0	<1.0	<1.0	<20.0	<10.0	<25.0	<25.0	<20.0
1,2-Dichloroethane	4	<1.0	<1.0	<1.0	<20.0	<10.0	<25.0	<25.0	<20.0
1,2-Dichloropropane	5	<4.0	<4.0	<4.0	<80.0	<40.0	<100	<100	<80.0
1,3,5-Trimethylbenzene	100	<1.0	<1.0	<1.0	<20.0	<10.0	<25.0	<25.0	<20.0
1,3-Dichlorobenzene	NL	<1.0	<1.0	<1.0	<20.0	<10.0	<25.0	<25.0	<20.0
1,3-Dichloropropane	NL	<1.0	<1.0	<1.0	<20.0	<10.0	<25.0	<25.0	<20.0
1,4-Dichlorobenzene	10	<1.0	<1.0	<1.0	<20.0	<10.0	<25.0	<25.0	<20.0
2,2-Dichloropropane	NL	<4.0	<4.0	<4.0	<80.0	<40.0	<100	<100	<80.0
2-Butanone (MEK)	4000	<4.0	<4.0	<4.0	<80.0	<40.0	<100	<100	<80.0
2-Chlorotoluene	NL	<1.0	<1.0	<1.0	<20.0	<10.0	<25.0	<25.0	<20.0
4-Chlorotoluene	NL	<1.0	<1.0	<1.0	<20.0	<10.0	<25.0	<25.0	<20.0
4-Methyl-2-pentanone (MIBK)	300	<4.0	<4.0	<4.0	<80.0	<40.0	<100	<100	<80.0
Acetone	700	104	<25.0	<25.0	<500	<250	<625	<625	<500
Allyl chloride	30	<4.0	<4.0	<4.0	<80.0	<40.0	<100	<100	<80.0
Benzene	2	<1.0	<1.0	<1.0	<20.0	<10.0	<25.0	<25.0	<20.0
Bromobenzene	NL	<1.0	<1.0	<1.0	<20.0	<10.0	<25.0	<25.0	<20.0
Bromochloromethane	NL	<1.0	<1.0	<1.0	<20.0	<10.0	<25.0	<25.0	<20.0
Bromodichloromethane	6	<1.0	<1.0	<1.0	<20.0	<10.0	<25.0	<25.0	<20.0
Bromoform	40	<4.0	<4.0	<4.0	<80.0	<40.0	<100	<100	<80.0
Bromomethane	10	<4.0	<4.0	<4.0	<80.0	<40.0	<100	<100	<80.0
Carbon tetrachloride	3	<1.0	<1.0	<1.0	<20.0	<10.0	<25.0	<25.0	<20.0
Chlorobenzene	100	<1.0	<1.0	<1.0	<20.0	<10.0	<25.0	<25.0	<20.0
Chloroethane	300	<1.0	<1.0	<1.0	<20.0	<10.0	<25.0	<25.0	<20.0
Chloroform	30	<1.0	2.6	<1.0	<20.0	<10.0	<25.0	<25.0	<20.0
Chloromethane	NL	<4.0	<4.0	<4.0	<80.0	<40.0	<100	<100	<80.0
cis-1,2-Dichloroethene	50	<1.0	25.0	<1.0	<20.0	<10.0	<25.0	<25.0	<20.0
cis-1,3-Dichloropropene	NL	<4.0	<4.0	<4.0	<80.0	<40.0	<100	<100	<80.0
Dibromochloromethane	10	<1.0	<1.0	<1.0	<20.0	<10.0	<25.0	<25.0	<20.0
Dibromomethane	NL	<4.0	<4.0	<4.0	<80.0	<40.0	<100	<100	<80.0
Dichlorodifluoromethane	1000	<1.0	<1.0	<1.0	<20.0	<10.0	<25.0	<25.0	<20.0
Dichlorofluoromethane	NL	<1.0	<1.0	<1.0	<20.0	<10.0	<25.0	<25.0	<20.0
Diethyl ether (Ethyl ether)	1000	<4.0	<4.0	<4.0	<80.0	<40.0	<100	<100	<80.0
Ethylbenzene	700	<1.0	<1.0	<1.0	<20.0	<10.0	<25.0	<25.0	<20.0
Hexachloro-1,3-butadiene	1	<5.0	<5.0	<5.0	<100	<50.0	<125	<125	<100
Isopropylbenzene (Cumene)	300	<1.0	<1.0	<1.0	<20.0	<10.0	<25.0	<25.0	<20.0
m&p-Xylene	NL	<2.0	<2.0	<2.0	<40.0	<20.0	<50.0	<50.0	<40.0
Methylene Chloride	5	<4.0	<4.0	<4.0	<80.0	<40.0	<100	<100	<80.0
Methyl-tert-butyl ether	70	<1.0	<1.0	<1.0	<20.0	<10.0	<25.0	<25.0	<20.0
Naphthalene	300	<4.0	<4.0	<4.0	<80.0	<40.0	<100	<100	<80.0
n-Butylbenzene	NL	<1.0	<1.0	<1.0	<20.0	<10.0	<25.0	<25.0	<20.0
n-Propylbenzene	NL	<1.0	<1.0	<1.0	<20.0	<10.0	<25.0	<25.0	<20.0
o-Xylene	NL	<1.0	<1.0	<1.0	<20.0	<10.0	<25.0	<25.0	<20.0
p-Isopropyltoluene	NL	<1.0	<1.0	<1.0	<20.0	<10.0	<25.0	<25.0	<20.0
sec-Butylbenzene	NL	<1.0	<1.0	<1.0	<20.0	<10.0	<25.0	<25.0	<20.0
Styrene	NL	<1.0	<1.0	<1.0	<20.0	<10.0	<25.0	<25.0	<20.0
tert-Butylbenzene	NL	<1.0	<1.0	<1.0	<20.0	<10.0	<25.0	<25.0	<20.0
Tetrachloroethene	5	264	5670	74.8	3690	1010	5310	4260	3220
Tetrahydrofuran	100	<10.0	<10.0	<10.0	<200	<100	<250	<250	<200
Toluene	1000	<1.0	<1.0	<1.0	<20.0	<10.0	<25.0	<25.0	<20.0
trans-1,2-Dichloroethene	100	<1.0	<1.0	<1.0	<20.0	<10.0	<25.0	<25.0	<20.0
trans-1,3-Dichloropropene	NL	<4.0	<4.0	<4.0	<80.0	<40.0	<100	<100	<80.0
Trichloroethene	5	<1.0	10.4	<1.0	<20.0	<10.0	<25.0	<25.0	<20.0
Trichlorofluoromethane	2000	<1.0	<1.0	<1.0	<20.0	<10.0	<25.0	<25.0	<20.0
Vinyl chloride	0.2	<0.40	<0.40	<0.40	<8.0	<4.0	<10.0	<10.0	<8.0
Xylene (Total)	10000	<3.0	<3.0	<3.0	<60.0	<30.0	<75.0	<75.0	<60.0

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	DPE-3	DPE-3	DPE-3	DPE-3	DPE-3	DPE-3	DPE-3
		03/01/11	12/22/10	08/18/10	05/13/10	02/22/10	11/17/09	09/28/09	12/10/08
1,1,1,2-Tetrachloroethane	70	<10.0	<10.0	<20.0	<1.0	<10.0	<200	<200	NA*
1,1,1-Trichloroethane	9000	<10.0	<10.0	<20.0	<1.0	<10.0	<200	<200	NA*
1,1,2,2-Tetrachloroethane	2	<10.0	<10.0	<20.0	<1.0	<10.0	<200	<200	NA*
1,1,2-Trichloroethane	3	<10.0	<10.0	<20.0	<1.0	<10.0	<200	<200	NA*
1,1,2-Trichlorotrifluoroethane	200000	1030	78.8	2,260	49.5	67.1	1,920	843	NA*
1,1-Dichloroethane	70	<10.0	<10.0	<20.0	<1.0	<10.0	<200	<200	NA*
1,1-Dichloroethene	6	<10.0	<10.0	<20.0	<1.0	<10.0	<200	<200	<500
1,1-Dichloropropene	NL	<10.0	<10.0	<20.0	<1.0	<10.0	<200	<200	NA*
1,2,3-Trichlorobenzene	NL	<10.0	<10.0	<20.0	<1.0	<10.0	<200	<200	NA*
1,2,3-Trichloropropane	40	<40.0	<10.0	<20.0	<1.0	<10.0	<200	<200	NA*
1,2,4-Trichlorobenzene	NL	<10.0	<10.0	<20.0	<1.0	<10.0	<200	<200	NA*
1,2,4-Trimethylbenzene	NL	<10.0	<10.0	<20.0	<1.0	<10.0	<200	<200	NA*
1,2-Dibromo-3-chloropropane	NL	<40.0	<40.0	<80.0	<4.0	<40.0	<800	<800	NA*
1,2-Dibromoethane (EDB)	.004	<10.0	<10.0	<20.0	<1.0	<10.0	<200	<200	NA*
1,2-Dichlorobenzene	600	<10.0	<10.0	<20.0	<1.0	<10.0	<200	<200	NA*
1,2-Dichloroethane	4	<10.0	<10.0	<20.0	<1.0	<10.0	<200	<200	NA*
1,2-Dichloropropane	5	<10.0	<10.0	<20.0	<1.0	<10.0	<200	<200	NA*
1,3,5-Trimethylbenzene	100	<10.0	<10.0	<20.0	<1.0	<10.0	<200	<200	NA*
1,3-Dichlorobenzene	NL	<10.0	<10.0	<20.0	<1.0	<10.0	<200	<200	NA*
1,3-Dichloropropane	NL	<10.0	<10.0	<20.0	<1.0	<10.0	<200	<200	NA*
1,4-Dichlorobenzene	10	<10.0	<10.0	<20.0	<1.0	<10.0	<200	<200	NA*
2,2-Dichloropropane	NL	<40.0	<40.0	<80.0	<4.0	<10.0	<800	<200	NA*
2-Butanone (MEK)	4000	<40.0	<40.0	<80.0	<4.0	<40.0	<800	<800	NA*
2-Chlorotoluene	NL	<10.0	<10.0	<20.0	<1.0	<10.0	<200	<200	NA*
4-Chlorotoluene	NL	<10.0	<10.0	<20.0	<1.0	<10.0	<200	<200	NA*
4-Methyl-2-pentanone (MIBK)	300	<40.0	<40.0	<80.0	<4.0	<40.0	<800	<800	NA*
Acetone	700	<250	<100	<200	<10.0	<100	<2000	<2000	NA*
Allyl chloride	30	<40.0	<40.0	<80.0	<4.0	<40.0	<800	<800	NA*
Benzene	2	<10.0	<10.0	<20.0	<1.0	<10.0	<200	<200	NA*
Bromobenzene	NL	<10.0	<10.0	<20.0	<1.0	<10.0	<200	<200	NA*
Bromochloromethane	NL	<10.0	<10.0	<20.0	<1.0	<10.0	<200	<200	NA*
Bromodichloromethane	6	<10.0	<10.0	<20.0	<1.0	<10.0	<200	<200	NA*
Bromoform	40	<80.0	<80.0	<160	<8.0	<80.0	<1600	<1600	NA*
Bromomethane	10	<40.0	<40.0	<80.0	<4.0	<40.0	<800	<800	NA*
Carbon tetrachloride	3	<40.0	<40.0	<80.0	<4.0	<10.0	<800	<200	NA*
Chlorobenzene	100	<10.0	<10.0	<20.0	<1.0	<10.0	<200	<200	NA*
Chloroethane	300	<10.0	<10.0	<20.0	<1.0	<10.0	<200	<200	NA*
Chloroform	30	<10.0	<10.0	<20.0	<1.0	<10.0	<200	<200	NA*
Chloromethane	NL	<40.0	<40.0	<80.0	<4.0	<40.0	<800	<800	NA*
cis-1,2-Dichloroethene	50	19.6	<10.0	59.2	2.6	<10.0	<200	<200	1,090
cis-1,3-Dichloropropene	NL	<40.0	<40.0	<80.0	<4.0	<40.0	<800	<800	NA*
Dibromochloromethane	10	<10.0	<10.0	<20.0	<1.0	<10.0	<200	<200	NA*
Dibromomethane	NL	<40.0	<40.0	<80.0	<4.0	<10.0	<200	<200	NA*
Dichlorodifluoromethane	1000	<10.0	<10.0	<20.0	<1.0	<10.0	<200	<200	NA*
Dichlorofluoromethane	NL	<10.0	<10.0	<20.0	<1.0	<10.0	<200	<200	NA*
Diethyl ether (Ethyl ether)	1000	<40.0	<40.0	<80.0	<4.0	<40.0	<800	<800	NA*
Ethylbenzene	700	<10.0	<10.0	<20.0	<1.0	<10.0	<200	<200	NA*
Hexachloro-1,3-butadiene	1	<40.0	<40.0	<80.0	<4.0	<40.0	<800	<800	NA*
Isopropylbenzene (Cumene)	300	<10.0	<10.0	<20.0	<1.0	<10.0	<200	<200	NA*
m&p-Xylene	NL	<20.0	<20.0	<40.0	<2.0	<20.0	<400	<400	NA*
Methylene Chloride	5	<40.0	<40.0	<80.0	<4.0	<40.0	<800	<800	NA*
Methyl-tert-butyl ether	70	<10.0	<10.0	<20.0	<1.0	<10.0	<200	<200	NA*
Naphthalene	300	<40.0	<40.0	<80.0	<4.0	<40.0	<800	<800	NA*
n-Butylbenzene	NL	<10.0	<10.0	<20.0	<1.0	<10.0	<200	<200	NA*
n-Propylbenzene	NL	<10.0	<10.0	<20.0	<1.0	<10.0	<200	<200	NA*
o-Xylene	NL	<10.0	<10.0	<20.0	<1.0	<10.0	<200	<200	NA*
p-Isopropyltoluene	NL	<10.0	<10.0	<20.0	<1.0	<10.0	<200	<200	NA*
sec-Butylbenzene	NL	<10.0	<10.0	<20.0	<1.0	<10.0	<200	<200	NA*
Styrene	NL	<10.0	<10.0	<20.0	<1.0	<10.0	<200	<200	NA*
tert-Butylbenzene	NL	<10.0	<10.0	<20.0	<1.0	<10.0	<200	<200	NA*
Tetrachloroethene	5	12,700	1,450	20,400	2,240	806	34,600	20,300	152,000
Tetrahydrofuran	100	<100	<100	<200	10.9	<100	<2000	<2000	NA*
Toluene	1000	<10.0	<10.0	<20.0	<1.0	<10.0	<200	<200	NA*
trans-1,2-Dichloroethene	100	<10.0	<10.0	<20.0	<1.0	<10.0	<200	<200	<500
trans-1,3-Dichloropropene	NL	<40.0	<40.0	<80.0	<4.0	<40.0	<800	<800	NA*
Trichloroethene	5	12.3	<10.0	22.8	<1.0	<10.0	<200	<200	<500
Trichlorofluoromethane	2000	<10.0	<10.0	<20.0	<1.0	<10.0	<200	<200	NA*
Vinyl chloride	0.2	<4.0	<4.0	<8.0	<0.40	<4.0	<80.0	<80.0	<200
Xylene (Total)	10000	<30.0	<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	DPE-4	DPE-4	DPE-4	DPE-4	DPE-4	DPE-4	DPE-4
		02/25/13	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	<2.0	<5.0	<5.0	<5.0	<2.0
1,1,1-Trichloroethane	9000	<1.0	1.1	<1.0	<2.0	<5.0	<5.0	<5.0	<2.0
1,1,2,2-Tetrachloroethane	2	<1.0	<1.0	<1.0	<2.0	<5.0	<5.0	<5.0	<2.0
1,1,2-Trichloroethane	3	<1.0	<1.0	<1.0	<2.0	<5.0	<5.0	<5.0	<2.0
1,1,2-Trichlorotrifluoroethane	200000	28.8	141	9.7	9.5	54.4	99.7	93.8	60.2
1,1-Dichloroethane	70	<1.0	<1.0	<1.0	<2.0	<5.0	<5.0	<5.0	<2.0
1,1-Dichloroethene	6	<1.0	<1.0	<1.0	<2.0	<5.0	<5.0	<5.0	<2.0
1,1-Dichloropropene	NL	<1.0	<1.0	<1.0	<2.0	<5.0	<5.0	<5.0	<2.0
1,2,3-Trichlorobenzene	NL	<1.0	<1.0	<1.0	<2.0	<5.0	<5.0	<5.0	<2.0
1,2,3-Trichloropropane	40	<4.0	<4.0	<4.0	<8.0	<20.0	<20.0	<20.0	<8.0
1,2,4-Trichlorobenzene	NL	<1.0	<1.0	<1.0	<2.0	<5.0	<5.0	<5.0	<2.0
1,2,4-Trimethylbenzene	NL	<1.0	<1.0	<1.0	<2.0	<5.0	<5.0	<5.0	<2.0
1,2-Dibromo-3-chloropropane	NL	<4.0	<4.0	<4.0	<8.0	<20.0	<20.0	<20.0	<8.0
1,2-Dibromoethane (EDB)	.004	<1.0	<1.0	<1.0	<2.0	<5.0	<5.0	<5.0	<2.0
1,2-Dichlorobenzene	600	<1.0	<1.0	<1.0	<2.0	<5.0	<5.0	<5.0	<2.0
1,2-Dichloroethane	4	<1.0	<1.0	<1.0	<2.0	<5.0	<5.0	<5.0	<2.0
1,2-Dichloropropane	5	<4.0	<4.0	<4.0	<8.0	<20.0	<20.0	<20.0	<8.0
1,3,5-Trimethylbenzene	100	<1.0	<1.0	<1.0	<2.0	<5.0	<5.0	<5.0	<2.0
1,3-Dichlorobenzene	NL	<1.0	<1.0	<1.0	<2.0	<5.0	<5.0	<5.0	<2.0
1,3-Dichloropropane	NL	<1.0	<1.0	<1.0	<2.0	<5.0	<5.0	<5.0	<2.0
1,4-Dichlorobenzene	10	<1.0	<1.0	<1.0	<2.0	<5.0	<5.0	<5.0	<2.0
2,2-Dichloropropane	NL	<4.0	<4.0	<4.0	<8.0	<20.0	<20.0	<20.0	<8.0
2-Butanone (MEK)	4000	<4.0	<4.0	<4.0	<8.0	<20.0	<20.0	<20.0	<8.0
2-Chlorotoluene	NL	<1.0	<1.0	<1.0	<2.0	<5.0	<5.0	<5.0	<2.0
4-Chlorotoluene	NL	<1.0	<1.0	<1.0	<2.0	<5.0	<5.0	<5.0	<2.0
4-Methyl-2-pentanone (MIBK)	300	<4.0	<4.0	<4.0	<8.0	<20.0	<20.0	<20.0	<8.0
Acetone	700	40.9	<25.0	<25.0	<50.0	<125	<125	<125	<50.0
Allyl chloride	30	<4.0	<4.0	<4.0	<8.0	<20.0	<20.0	<20.0	<8.0
Benzene	2	<1.0	<1.0	<1.0	<2.0	<5.0	<5.0	<5.0	<2.0
Bromobenzene	NL	<1.0	<1.0	<1.0	<2.0	<5.0	<5.0	<5.0	<2.0
Bromochloromethane	NL	<1.0	<1.0	<1.0	<2.0	<5.0	<5.0	<5.0	<2.0
Bromodichloromethane	6	<1.0	<1.0	<1.0	<2.0	<5.0	<5.0	<5.0	<2.0
Bromoform	40	<4.0	<4.0	<4.0	<8.0	<20.0	<20.0	<20.0	<8.0
Bromomethane	10	<4.0	<4.0	<4.0	<8.0	<20.0	<20.0	<20.0	<8.0
Carbon tetrachloride	3	<1.0	<1.0	<1.0	<2.0	<5.0	<5.0	<5.0	<2.0
Chlorobenzene	100	<1.0	<1.0	<1.0	<2.0	<5.0	<5.0	<5.0	<2.0
Chloroethane	300	<1.0	<1.0	<1.0	<2.0	<5.0	<5.0	<5.0	<2.0
Chloroform	30	<1.0	1.3	<1.0	<2.0	<5.0	<5.0	<5.0	<2.0
Chloromethane	NL	<4.0	<4.0	<4.0	<8.0	<20.0	<20.0	<20.0	<8.0
cis-1,2-Dichloroethene	50	<1.0	5.1	<1.0	<2.0	<5.0	<5.0	<5.0	<2.0
cis-1,3-Dichloropropene	NL	<4.0	<4.0	<4.0	<8.0	<20.0	<20.0	<20.0	<8.0
Dibromochloromethane	10	<1.0	<1.0	<1.0	<2.0	<5.0	<5.0	<5.0	<2.0
Dibromomethane	NL	<4.0	<4.0	<4.0	<8.0	<20.0	<20.0	<20.0	<8.0
Dichlorodifluoromethane	1000	<1.0	<1.0	<1.0	<2.0	<5.0	<5.0	<5.0	<2.0
Dichlorofluoromethane	NL	<1.0	<1.0	<1.0	<2.0	<5.0	<5.0	<5.0	<2.0
Diethyl ether (Ethyl ether)	1000	<4.0	<4.0	<4.0	<8.0	<20.0	<20.0	<20.0	<8.0
Ethylbenzene	700	<1.0	<1.0	<1.0	<2.0	<5.0	<5.0	<5.0	<2.0
Hexachloro-1,3-butadiene	1	<5.0	<5.0	<5.0	<10.0	<25.0	<25.0	<25.0	<10.0
Isopropylbenzene (Cumene)	300	<1.0	<1.0	<1.0	<2.0	<5.0	<5.0	<5.0	<2.0
m&p-Xylene	NL	<2.0	<2.0	<2.0	<4.0	<10.0	<10.0	<10.0	<4.0
Methylene Chloride	5	<4.0	<4.0	<4.0	<8.0	<20.0	<20.0	<20.0	<8.0
Methyl-tert-butyl ether	70	<1.0	<1.0	<1.0	<2.0	<5.0	<5.0	<5.0	<2.0
Naphthalene	300	<4.0	<4.0	<4.0	<8.0	<20.0	<20.0	<20.0	<8.0
n-Butylbenzene	NL	<1.0	<1.0	<1.0	<2.0	<5.0	<5.0	<5.0	<2.0
n-Propylbenzene	NL	<1.0	<1.0	<1.0	<2.0	<5.0	<5.0	<5.0	<2.0
o-Xylene	NL	<1.0	<1.0	<1.0	<2.0	<5.0	<5.0	<5.0	<2.0
p-Isopropyltoluene	NL	<1.0	<1.0	<1.0	<2.0	<5.0	<5.0	<5.0	<2.0
sec-Butylbenzene	NL	<1.0	<1.0	<1.0	<2.0	<5.0	<5.0	<5.0	<2.0
Styrene	NL	<1.0	<1.0	<1.0	<2.0	<5.0	<5.0	<5.0	<2.0
tert-Butylbenzene	NL	<1.0	<1.0	<1.0	<2.0	<5.0	<5.0	<5.0	<2.0
Tetrachloroethene	5	219	1410	187	223	830	763	771	367
Tetrahydrofuran	100	<10.0	<10.0	<10.0	<20.0	<50.0	<50.0	<50.0	<20.0
Toluene	1000	<1.0	<1.0	<1.0	<2.0	<5.0	<5.0	<5.0	<2.0
trans-1,2-Dichloroethene	100	<1.0	<1.0	<1.0	<2.0	<5.0	<20.0	<20.0	<8.0
trans-1,3-Dichloropropene	NL	<4.0	<4.0	<4.0	<8.0	<20.0	<20.0	<20.0	<8.0
Trichloroethene	5	<1.0	2.2	<1.0	<2.0	<5.0	<5.0	<5.0	<2.0
Trichlorofluoromethane	2000	<1.0	<1.0	<1.0	<2.0	<5.0	<5.0	<5.0	<2.0
Vinyl chloride	0.2	<0.40	<0.40	<0.40	<0.80	<2.0	<2.0	<2.0	<0.80
Xylene (Total)	10000	<3.0	<3.0	<3.0	<6.0	<15.0	<15.0	<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-4	DPE-4	DPE-4	DPE-4	DPE-4	DPE-4	DPE-4	DPE-4
		03/01/11	12/22/10	08/18/10	05/13/10	02/22/10	11/17/09	09/28/09	12/10/08
1,1,1,2-Tetrachloroethane	70	<10.0	<10.0	<5.0	<1.0	<5.0	<50.0	<50.0	NA*
1,1,1-Trichloroethane	9000	<10.0	<10.0	<5.0	<1.0	<5.0	<50.0	<50.0	NA*
1,1,2,2-Tetrachloroethane	2	<10.0	<10.0	<5.0	<1.0	<5.0	<50.0	<50.0	NA*
1,1,2-Trichloroethane	3	<10.0	<10.0	<5.0	<1.0	<5.0	<50.0	<50.0	NA*
1,1,2-Trichlorotrifluoroethane	200000	127	39.4	181	48.1	41.9	464	339	NA*
1,1-Dichloroethane	70	<10.0	<10.0	<5.0	<1.0	<5.0	<50.0	<50.0	NA*
1,1-Dichloroethene	6	<10.0	<10.0	<5.0	<1.0	<5.0	<50.0	<50.0	<500
1,1-Dichloropropene	NL	<10.0	<10.0	<5.0	<1.0	<5.0	<50.0	<50.0	NA*
1,2,3-Trichlorobenzene	NL	<10.0	<10.0	<5.0	<1.0	<5.0	<50.0	<50.0	NA*
1,2,3-Trichloropropane	40	<40.0	<10.0	<5.0	<1.0	<5.0	<50.0	<50.0	NA*
1,2,4-Trichlorobenzene	NL	<10.0	<10.0	<5.0	<1.0	<5.0	<50.0	<50.0	NA*
1,2,4-Trimethylbenzene	NL	<10.0	<10.0	<5.0	<1.0	<5.0	<50.0	<50.0	NA*
1,2-Dibromo-3-chloropropane	NL	<40.0	<40.0	<20.0	<4.0	<20.0	<200	<200	NA*
1,2-Dibromoethane (EDB)	.004	<10.0	<10.0	<5.0	<1.0	<5.0	<50.0	<50.0	NA*
1,2-Dichlorobenzene	600	<10.0	<10.0	<5.0	<1.0	<5.0	<50.0	<50.0	NA*
1,2-Dichloroethane	4	<10.0	<10.0	<5.0	<1.0	<5.0	<50.0	<50.0	NA*
1,2-Dichloropropane	5	<10.0	<10.0	<5.0	<1.0	<5.0	<50.0	<50.0	NA*
1,3,5-Trimethylbenzene	100	<10.0	<10.0	<5.0	<1.0	<5.0	<50.0	<50.0	NA*
1,3-Dichlorobenzene	NL	<10.0	<10.0	<5.0	<1.0	<5.0	<50.0	<50.0	NA*
1,3-Dichloropropane	NL	<10.0	<10.0	<5.0	<1.0	<5.0	<50.0	<50.0	NA*
1,4-Dichlorobenzene	10	<10.0	<10.0	<5.0	<1.0	<5.0	<50.0	<50.0	NA*
2,2-Dichloropropane	NL	<40.0	<40.0	<20.0	<4.0	<5.0	<200	<50.0	NA*
2-Butanone (MEK)	4000	<40.0	<40.0	<20.0	<4.0	<20.0	<200	<200	NA*
2-Chlorotoluene	NL	<10.0	<10.0	<5.0	<1.0	<5.0	<50.0	<50.0	NA*
4-Chlorotoluene	NL	<10.0	<10.0	<5.0	<1.0	<5.0	<50.0	<50.0	NA*
4-Methyl-2-pentanone (MIBK)	300	<40.0	<40.0	<20.0	<4.0	<20.0	<200	<200	NA*
Acetone	700	<250	<100	<50.0	<10.0	<50.0	<500	<500	NA*
Allyl chloride	30	<40.0	<40.0	<20.0	<4.0	<20.0	<200	<200	NA*
Benzene	2	<10.0	<10.0	<5.0	<1.0	<5.0	<50.0	<50.0	NA*
Bromobenzene	NL	<10.0	<10.0	<5.0	<1.0	<5.0	<50.0	<50.0	NA*
Bromochloromethane	NL	<10.0	<10.0	<5.0	<1.0	<5.0	<50.0	<50.0	NA*
Bromodichloromethane	6	<10.0	<10.0	<5.0	<1.0	<5.0	<50.0	<50.0	NA*
Bromoform	40	<80.0	<80.0	<40.0	<8.0	<40.0	<400	<400	NA*
Bromomethane	10	<100	<40.0	<20.0	<4.0	<20.0	<200	<200	NA*
Carbon tetrachloride	3	<40.0	<40.0	<20.0	<4.0	<5.0	<200	<50.0	NA*
Chlorobenzene	100	<10.0	<10.0	<5.0	<1.0	<5.0	<50.0	<50.0	NA*
Chloroethane	300	<10.0	<10.0	<5.0	<1.0	<5.0	<50.0	<50.0	NA*
Chloroform	30	<10.0	<10.0	<5.0	<1.0	<5.0	<50.0	<50.0	NA*
Chloromethane	NL	<40.0	<40.0	<20.0	<4.0	<20.0	<200	<200	NA*
cis-1,2-Dichloroethene	50	<10.0	<10.0	20.7	1.1	<5.0	<50.0	<50.0	<500
cis-1,3-Dichloropropene	NL	<40.0	<40.0	<20.0	<4.0	<20.0	<200	<200	NA*
Dibromochloromethane	10	<10.0	<10.0	<5.0	<1.0	<5.0	<50.0	<50.0	NA*
Dibromomethane	NL	<40.0	<40.0	<20.0	<4.0	<5.0	<50.0	<50.0	NA*
Dichlorodifluoromethane	1000	<10.0	<10.0	<5.0	<1.0	<5.0	<50.0	<50.0	NA*
Dichlorofluoromethane	NL	<10.0	<10.0	<5.0	<1.0	<5.0	<50.0	<50.0	NA*
Diethyl ether (Ethyl ether)	1000	<40.0	<40.0	<20.0	<4.0	<20.0	<200	<200	NA*
Ethylbenzene	700	<10.0	<10.0	<5.0	<1.0	<5.0	<50.0	<50.0	NA*
Hexachloro-1,3-butadiene	1	<40.0	<40.0	<20.0	<4.0	<20.0	<200	<200	NA*
Isopropylbenzene (Cumene)	300	<10.0	<10.0	<5.0	<1.0	<5.0	<50.0	<50.0	NA*
m&p-Xylene	NL	<20.0	<20.0	<10.0	<2.0	<10.0	<100	<100	NA*
Methylene Chloride	5	<40.0	<40.0	<20.0	<4.0	<20.0	<200	<200	NA*
Methyl-tert-butyl ether	70	<10.0	<10.0	<5.0	<1.0	<5.0	<50.0	<50.0	NA*
Naphthalene	300	<40.0	<40.0	<20.0	<4.0	<20.0	<200	<200	NA*
n-Butylbenzene	NL	<10.0	<10.0	<5.0	<1.0	<5.0	<50.0	<50.0	NA*
n-Propylbenzene	NL	<10.0	<10.0	<5.0	<1.0	<5.0	<50.0	<50.0	NA*
o-Xylene	NL	<10.0	<10.0	<5.0	<1.0	<5.0	<50.0	<50.0	NA*
p-Isopropyltoluene	NL	<10.0	<10.0	<5.0	<1.0	<5.0	<50.0	<50.0	NA*
sec-Butylbenzene	NL	<10.0	<10.0	<5.0	<1.0	<5.0	<50.0	<50.0	NA*
Styrene	NL	<10.0	<10.0	<5.0	<1.0	<5.0	<50.0	<50.0	NA*
tert-Butylbenzene	NL	<10.0	<10.0	<5.0	<1.0	<5.0	<50.0	<50.0	NA*
Tetrachloroethene	5	1,160	1,100	2,600	357	429	5,040	7,340	35,600
Tetrahydrofuran	100	<100	<100	<50.0	<10.0	<50.0	<500	<500	NA*
Toluene	1000	<10.0	<10.0	<5.0	<1.0	<5.0	<50.0	<50.0	NA*
trans-1,2-Dichloroethene	100	<10.0	<10.0	<5.0	<1.0	<5.0	<50.0	<50.0	<500
trans-1,3-Dichloropropene	NL	<40.0	<40.0	<20.0	<4.0	<20.0	<200	<200	NA*
Trichloroethene	5	<10.0	<10.0	7.1	<1.0	<5.0	<50.0	<50.0	<500
Trichlorofluoromethane	2000	<10.0	<10.0	<5.0	<1.0	<5.0	<50.0	<50.0	NA*
Vinyl chloride	0.2	<4.0	<4.0	<2.0	<0.40	<2.0	<20.0	<20.0	<200
Xylene (Total)	10000	<30.0	<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 Collected Date and Time	MDH Health Risk Limits 5/09	DPE-5	DPE-5	DPE-5	DPE-5	DPE-5	DPE-5	DPE-5	DPE-5
		02/25/13	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	<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	13.4	1.2	<1.0	2.2	3.0	<1.0	5.2
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	<4.0
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	107	<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	<4.0
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	<1.0
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	1.5	<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	<5.0
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	30.9	74.1	16.4	11.1	69.5	51.2	<1.0	67.2
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	<1.0	<4.0	<4.0	<4.0
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	DPE-5	DPE-5	DPE-5	DPE-5	DPE-5	DPE-5	DPE-5
		03/01/11	12/22/10	08/18/10	05/13/10	02/22/10	11/17/09	09/24/09	12/10/08
1,1,1,2-Tetrachloroethane	70	<1.0	<1.0	<1.0	<1.0	<5.0	<10.0	<10.0	NA*
1,1,1-Trichloroethane	9000	<1.0	<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	<1.0	<5.0	<10.0	<10.0	NA*
1,1,2-Trichloroethane	3	<1.0	<1.0	<1.0	<1.0	<5.0	<10.0	<10.0	NA*
1,1,2-Trichlorotrifluoroethane	200000	13.9	<1.0	11.5	16.9	19.4	498	37.9	NA*
1,1-Dichloroethane	70	<1.0	<1.0	<1.0	<1.0	<5.0	<10.0	<10.0	NA*
1,1-Dichloroethene	6	<1.0	<1.0	<1.0	<1.0	<5.0	<10.0	<10.0	<10.0
1,1-Dichloropropene	NL	<1.0	<1.0	<1.0	<1.0	<5.0	<10.0	<10.0	NA*
1,2,3-Trichlorobenzene	NL	<1.0	<1.0	<1.0	<1.0	<5.0	<10.0	<10.0	NA*
1,2,3-Trichloropropane	40	<4.0	<1.0	<1.0	<1.0	<5.0	<10.0	<10.0	NA*
1,2,4-Trichlorobenzene	NL	<1.0	<1.0	<1.0	<1.0	<5.0	<10.0	<10.0	NA*
1,2,4-Trimethylbenzene	NL	<1.0	<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	<4.0	<20.0	<40.0	<40.0	NA*
1,2-Dibromoethane (EDB)	.004	<1.0	<1.0	<1.0	<1.0	<5.0	<10.0	<10.0	NA*
1,2-Dichlorobenzene	600	<1.0	<1.0	<1.0	<1.0	<5.0	<10.0	<10.0	NA*
1,2-Dichloroethane	4	<1.0	<1.0	<1.0	<1.0	<5.0	<10.0	<10.0	NA*
1,2-Dichloropropane	5	<1.0	<1.0	<1.0	<1.0	<5.0	<10.0	<10.0	NA*
1,3,5-Trimethylbenzene	100	<1.0	<1.0	<1.0	<1.0	<5.0	<10.0	<10.0	NA*
1,3-Dichlorobenzene	NL	<1.0	<1.0	<1.0	<1.0	<5.0	<10.0	<10.0	NA*
1,3-Dichloropropane	NL	<1.0	<1.0	<1.0	<1.0	<5.0	<10.0	<10.0	NA*
1,4-Dichlorobenzene	10	<1.0	<1.0	<1.0	<1.0	<5.0	<10.0	<10.0	NA*
2,2-Dichloropropane	NL	<4.0	<4.0	<4.0	<4.0	<5.0	<10.0	<10.0	NA*
2-Butanone (MEK)	4000	<4.0	<4.0	<4.0	<4.0	<20.0	<40.0	<40.0	NA*
2-Chlorotoluene	NL	<1.0	<1.0	<1.0	<1.0	<5.0	<10.0	<10.0	NA*
4-Chlorotoluene	NL	<1.0	<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	<4.0	<20.0	<40.0	<40.0	NA*
Acetone	700	<25.0	<10.0	<10.0	<10.0	<50.0	<100	<100	NA*
Allyl chloride	30	<4.0	<4.0	<4.0	<4.0	<20.0	<40.0	<40.0	NA*
Benzene	2	<1.0	<1.0	<1.0	<1.0	<5.0	<10.0	<10.0	NA*
Bromobenzene	NL	<1.0	<1.0	<1.0	<1.0	<5.0	<10.0	<10.0	NA*
Bromochloromethane	NL	<1.0	<1.0	<1.0	<1.0	<5.0	<10.0	<10.0	NA*
Bromodichloromethane	6	<1.0	<1.0	<1.0	<1.0	<5.0	<10.0	<10.0	NA*
Bromoform	40	<8.0	<8.0	<8.0	<8.0	<40.0	<80.0	<80.0	NA*
Bromomethane	10	<4.0	<4.0	<4.0	<4.0	<20.0	<40.0	<40.0	NA*
Carbon tetrachloride	3	<4.0	<4.0	<4.0	<4.0	<5.0	<40.0	<10.0	NA*
Chlorobenzene	100	<1.0	<1.0	<1.0	<1.0	<5.0	<10.0	<10.0	NA*
Chloroethane	300	<1.0	<1.0	<1.0	<1.0	<5.0	<10.0	<10.0	NA*
Chloroform	30	<1.0	<1.0	<1.0	<1.0	<5.0	<10.0	<10.0	NA*
Chloromethane	NL	<4.0	<4.0	<4.0	<4.0	<20.0	<40.0	<40.0	NA*
cis-1,2-Dichloroethene	50	1.3	<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	<4.0	<20.0	<40.0	<40.0	NA*
Dibromochloromethane	10	<1.0	<1.0	<1.0	<1.0	<5.0	<10.0	<10.0	NA*
Dibromomethane	NL	<4.0	<4.0	<4.0	<4.0	<5.0	<10.0	<10.0	NA*
Dichlorodifluoromethane	1000	<1.0	<1.0	<1.0	<1.0	<5.0	<10.0	<10.0	NA*
Dichlorofluoromethane	NL	<1.0	<1.0	<1.0	<1.0	<5.0	<10.0	<10.0	NA*
Diethyl ether (Ethyl ether)	1000	<4.0	<4.0	<4.0	<4.0	<20.0	<40.0	<40.0	NA*
Ethylbenzene	700	<1.0	<1.0	<1.0	<1.0	<5.0	<10.0	<10.0	NA*
Hexachloro-1,3-butadiene	1	<4.0	<4.0	<4.0	<4.0	<20.0	<40.0	<40.0	NA*
Isopropylbenzene (Cumene)	300	<1.0	<1.0	<1.0	<1.0	<5.0	<10.0	<10.0	NA*
m&p-Xylene	NL	<2.0	<2.0	<2.0	<2.0	<10.0	<20.0	<20.0	NA*
Methylene Chloride	5	6.2	<4.0	<4.0	<4.0	<20.0	<40.0	<40.0	NA*
Methyl-tert-butyl ether	70	<1.0	<1.0	<1.0	<1.0	<5.0	<10.0	<10.0	NA*
Naphthalene	300	<4.0	<4.0	<4.0	<4.0	<20.0	<40.0	<40.0	NA*
n-Butylbenzene	NL	<1.0	<1.0	<1.0	<1.0	<5.0	<10.0	<10.0	NA*
n-Propylbenzene	NL	<1.0	<1.0	<1.0	<1.0	<5.0	<10.0	<10.0	NA*
o-Xylene	NL	<1.0	<1.0	<1.0	<1.0	<5.0	<10.0	<10.0	NA*
p-Isopropyltoluene	NL	<1.0	<1.0	<1.0	<1.0	<5.0	<10.0	<10.0	NA*
sec-Butylbenzene	NL	<1.0	<1.0	<1.0	<1.0	<5.0	<10.0	<10.0	NA*
Styrene	NL	<1.0	<1.0	<1.0	<1.0	<5.0	<10.0	<10.0	NA*
tert-Butylbenzene	NL	<1.0	<1.0	<1.0	<1.0	<5.0	<10.0	<10.0	NA*
Tetrachloroethene	5	339	21.6	124	205	486	1,450	875	1,340
Tetrahydrofuran	100	<10.0	<10.0	<10.0	<10.0	<50.0	<100	<100	NA*
Toluene	1000	<1.0	<1.0	<1.0	<1.0	<5.0	<10.0	<10.0	NA*
trans-1,2-Dichloroethene	100	<1.0	<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	<4.0	<20.0	<40.0	<40.0	NA*
Trichloroethene	5	<1.0	<1.0	<1.0	<1.0	<5.0	<10.0	<10.0	<10.0
Trichlorofluoromethane	2000	<1.0	<1.0	<1.0	<1.0	<5.0	<10.0	<10.0	NA*
Vinyl chloride	0.2	<0.40	<0.40	<0.40	<0.40	<2.0	<4.0	<4.0	<4.0
Xylene (Total)	10000	<3.0	<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 Collected Date and Time	MDH Health Risk Limits 5/09	DPE-6	DPE-6	DPE-6	DPE-6	DPE-6	DPE-6	DPE-6	DPE-6
		02/25/13	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	<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	<4.0
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	<4.0
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	<1.0
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	1.4
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	<1.0	<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	<5.0
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
Tetrachloroethane	5	19.8	10.9	4.6	<1.0	44.8	1.9	7.7	23.4
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	<1.0	<4.0	<4.0	<4.0
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	DPE-6	DPE-6	DPE-6	DPE-6	DPE-6	DPE-6	DPE-6	
		03/01/11	12/22/10	08/18/10	05/13/10	02/22/10	11/17/09	09/24/09	12/10/08	
1,1,1,2-Tetrachloroethane	70	<1.0	<1.0	<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	<1.0	<1.0	NA*
1,1,2,2-Tetrachloroethane	2	<1.0	<1.0	<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	<1.0	<1.0	NA*
1,1,2-Trichlorotrifluoroethane	200000	<1.0	1.5	<1.0	<1.0	<1.0	<1.0	3.5	<1.0	NA*
1,1-Dichloroethane	70	<1.0	<1.0	<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	<1.0	<2.0
1,1-Dichloropropene	NL	<1.0	<1.0	<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	<1.0	<1.0	NA*
1,2,3-Trichloropropane	40	<4.0	<1.0	<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	<1.0	<1.0	NA*
1,2,4-Trimethylbenzene	NL	<1.0	<1.0	<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	<4.0	<4.0	NA*
1,2-Dibromoethane (EDB)	.004	<1.0	<1.0	<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	<1.0	<1.0	NA*
1,2-Dichloroethane	4	<1.0	<1.0	<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	<1.0	<1.0	NA*
1,3,5-Trimethylbenzene	100	<1.0	<1.0	<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	<1.0	<1.0	NA*
1,3-Dichloropropane	NL	<1.0	<1.0	<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	<1.0	<1.0	NA*
2,2-Dichloropropane	NL	<4.0	<4.0	<4.0	<4.0	<1.0	<4.0	<1.0	<1.0	NA*
2-Butanone (MEK)	4000	<4.0	<4.0	<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	<1.0	<1.0	NA*
4-Chlorotoluene	NL	<1.0	<1.0	<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	<4.0	<4.0	NA*
Acetone	700	<25.0	<10.0	<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	<4.0	<4.0	NA*
Benzene	2	<1.0	<1.0	<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	<1.0	<1.0	NA*
Bromochloromethane	NL	<1.0	<1.0	<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	<1.0	<1.0	NA*
Bromoform	40	<8.0	<8.0	<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	<4.0	<4.0	NA*
Carbon tetrachloride	3	<4.0	<4.0	<4.0	<4.0	<1.0	<4.0	<4.0	<1.0	NA*
Chlorobenzene	100	<1.0	<1.0	<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	<1.0	<1.0	NA*
Chloroform	30	1.1	1.2	1.0	1.1	1.6	1.6	<1.0	<1.0	NA*
Chloromethane	NL	<4.0	<4.0	<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	1.5	<1.0	<2.0	NA*
cis-1,3-Dichloropropene	NL	<4.0	<4.0	<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	<1.0	<1.0	NA*
Dibromomethane	NL	<4.0	<4.0	<4.0	<4.0	<1.0	<1.0	<1.0	<1.0	NA*
Dichlorodifluoromethane	1000	<1.0	<1.0	<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	<1.0	<1.0	NA*
Diethyl ether (Ethyl ether)	1000	<4.0	<4.0	<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	<1.0	<1.0	NA*
Hexachloro-1,3-butadiene	1	<4.0	<4.0	<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	<1.0	<1.0	NA*
m&p-Xylene	NL	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	NA*
Methylene Chloride	5	7.3	<4.0	<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	<1.0	<1.0	NA*
Naphthalene	300	<4.0	<4.0	<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	<1.0	<1.0	NA*
n-Propylbenzene	NL	<1.0	<1.0	<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	<1.0	<1.0	NA*
p-Isopropyltoluene	NL	<1.0	<1.0	<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	<1.0	<1.0	NA*
Styrene	NL	<1.0	<1.0	<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	<1.0	<1.0	NA*
Tetrachloroethene	5	3.9	77.1	21.7	14.6	57.8	104	79.3	188	NA*
Tetrahydrofuran	100	<10.0	<10.0	<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	<1.0	<1.0	NA*
trans-1,2-Dichloroethene	100	<1.0	<1.0	<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	<4.0	<4.0	NA*
Trichloroethene	5	<1.0	<1.0	<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	<1.0	<1.0	NA*
Vinyl chloride	0.2	<0.40	<0.40	<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	<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	DPE-7	DPE-7	DPE-7	DPE-7	DPE-7	DPE-7	DPE-7	DPE-7
		02/25/13	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	<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	3.8	1.8
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	<4.0
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	<4.0
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	<1.0
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	1.2	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	<5.0
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	8.0	3.7	<1.0	<1.0	27.8	<1.0	26.9	15.9
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	<1.0	<4.0	<4.0	<4.0
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	DPE-7	DPE-7	DPE-7	DPE-7	DPE-7	DPE-7	DPE-7	
		03/01/11	12/22/10	08/18/10	05/13/10	02/22/10	11/17/09	09/24/09	12/10/08	
1,1,1,2-Tetrachloroethane	70	<1.0	<1.0	<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	<1.0	<1.0	NA*
1,1,2,2-Tetrachloroethane	2	<1.0	<1.0	<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	<1.0	<1.0	NA*
1,1,2-Trichlorotrifluoroethane	200000	<1.0	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	<1.0	<1.0	NA*
1,1-Dichloroethene	6	<1.0	<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	NA*
1,2,3-Trichlorobenzene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
1,2,3-Trichloropropane	40	<4.0	<1.0	<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	<1.0	<1.0	NA*
1,2,4-Trimethylbenzene	NL	<1.0	<1.0	<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	<4.0	<4.0	NA*
1,2-Dibromoethane (EDB)	.004	<1.0	<1.0	<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	<1.0	<1.0	NA*
1,2-Dichloroethane	4	<1.0	<1.0	<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	<1.0	<1.0	NA*
1,3,5-Trimethylbenzene	100	<1.0	<1.0	<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	<1.0	<1.0	NA*
1,3-Dichloropropane	NL	<1.0	<1.0	<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	<1.0	<1.0	NA*
2,2-Dichloropropane	NL	<4.0	<4.0	<4.0	<4.0	<1.0	<4.0	<1.0	<1.0	NA*
2-Butanone (MEK)	4000	<4.0	<4.0	<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	<1.0	<1.0	NA*
4-Chlorotoluene	NL	<1.0	<1.0	<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	<4.0	<4.0	NA*
Acetone	700	<25.0	<10.0	<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	<4.0	<4.0	NA*
Benzene	2	<1.0	<1.0	<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	<1.0	<1.0	NA*
Bromochloromethane	NL	<1.0	<1.0	<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	<1.0	<1.0	NA*
Bromoform	40	<8.0	<8.0	<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	<4.0	<4.0	NA*
Carbon tetrachloride	3	<4.0	<4.0	<4.0	<4.0	<1.0	<4.0	<4.0	<1.0	NA*
Chlorobenzene	100	<1.0	<1.0	<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	<1.0	<1.0	NA*
Chloroform	30	2.3	<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	<4.0	<4.0	NA*
cis-1,2-Dichloroethene	50	<1.0	<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	NA*
Dibromochloromethane	10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
Dibromomethane	NL	<4.0	<4.0	<4.0	<4.0	<1.0	<1.0	<1.0	<1.0	NA*
Dichlorodifluoromethane	1000	<1.0	<1.0	<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	<1.0	<1.0	NA*
Diethyl ether (Ethyl ether)	1000	<4.0	<4.0	<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	<1.0	<1.0	NA*
Hexachloro-1,3-butadiene	1	<4.0	<4.0	<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	<1.0	<1.0	NA*
m&p-Xylene	NL	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	NA*
Methylene Chloride	5	6.6	<4.0	<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	<1.0	<1.0	NA*
Naphthalene	300	<4.0	<4.0	<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	<1.0	<1.0	NA*
n-Propylbenzene	NL	<1.0	<1.0	<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	<1.0	<1.0	NA*
p-Isopropyltoluene	NL	<1.0	<1.0	<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	<1.0	<1.0	NA*
Styrene	NL	<1.0	<1.0	<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	<1.0	<1.0	NA*
Tetrachloroethene	5	7.1	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	<10.0	<10.0	NA*
Toluene	1000	<1.0	<1.0	<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	<1.0	<1.0
trans-1,3-Dichloropropene	NL	<4.0	<4.0	<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	<1.0	<1.0
Trichlorofluoromethane	2000	<1.0	<1.0	<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	<0.40	<0.40
Xylene (Total)	10000	<3.0	<3.0	<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	DPE-8	DPE-8	DPE-8	DPE-8	DPE-8	DPE-8	DPE-8	DPE-8
		02/25/13	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	NS	NS	NS	NS	NS	<5.0	<2.0	<5.0
1,1,1-Trichloroethane	9000	NS	NS	NS	NS	NS	<5.0	<2.0	<5.0
1,1,2,2-Tetrachloroethane	2	NS	NS	NS	NS	NS	<5.0	<2.0	<5.0
1,1,2-Trichloroethane	3	NS	NS	NS	NS	NS	<5.0	<2.0	<5.0
1,1,2-Trichlorotrifluoroethane	200000	NS	NS	NS	NS	NS	62.0	32.4	77.9
1,1-Dichloroethane	70	NS	NS	NS	NS	NS	<5.0	<2.0	<5.0
1,1-Dichloroethene	6	NS	NS	NS	NS	NS	<5.0	<2.0	<5.0
1,1-Dichloropropene	NL	NS	NS	NS	NS	NS	<5.0	<2.0	<5.0
1,2,3-Trichlorobenzene	NL	NS	NS	NS	NS	NS	<5.0	<2.0	<5.0
1,2,3-Trichloropropane	40	NS	NS	NS	NS	NS	<20.0	<8.0	<20.0
1,2,4-Trichlorobenzene	NL	NS	NS	NS	NS	NS	<5.0	<2.0	<5.0
1,2,4-Trimethylbenzene	NL	NS	NS	NS	NS	NS	<5.0	<2.0	<5.0
1,2-Dibromo-3-chloropropane	NL	NS	NS	NS	NS	NS	<20.0	<8.0	<20.0
1,2-Dibromoethane (EDB)	.004	NS	NS	NS	NS	NS	<5.0	<2.0	<5.0
1,2-Dichlorobenzene	600	NS	NS	NS	NS	NS	<5.0	<2.0	<5.0
1,2-Dichloroethane	4	NS	NS	NS	NS	NS	<5.0	<2.0	<5.0
1,2-Dichloropropane	5	NS	NS	NS	NS	NS	<20.0	<8.0	<20.0
1,3,5-Trimethylbenzene	100	NS	NS	NS	NS	NS	<5.0	<2.0	<5.0
1,3-Dichlorobenzene	NL	NS	NS	NS	NS	NS	<5.0	<2.0	<5.0
1,3-Dichloropropane	NL	NS	NS	NS	NS	NS	<5.0	<2.0	<5.0
1,4-Dichlorobenzene	10	NS	NS	NS	NS	NS	<5.0	<2.0	<5.0
2,2-Dichloropropane	NL	NS	NS	NS	NS	NS	<20.0	<8.0	<20.0
2-Butanone (MEK)	4000	NS	NS	NS	NS	NS	<20.0	<8.0	<20.0
2-Chlorotoluene	NL	NS	NS	NS	NS	NS	<5.0	<2.0	<5.0
4-Chlorotoluene	NL	NS	NS	NS	NS	NS	<5.0	<2.0	<5.0
4-Methyl-2-pentanone (MIBK)	300	NS	NS	NS	NS	NS	<20.0	<8.0	<20.0
Acetone	700	NS	NS	NS	NS	NS	<125	<50.0	<125
Allyl chloride	30	NS	NS	NS	NS	NS	<20.0	<8.0	<20.0
Benzene	2	NS	NS	NS	NS	NS	<5.0	<2.0	<5.0
Bromobenzene	NL	NS	NS	NS	NS	NS	<5.0	<2.0	<5.0
Bromochloromethane	NL	NS	NS	NS	NS	NS	<5.0	<2.0	<5.0
Bromodichloromethane	6	NS	NS	NS	NS	NS	<5.0	<2.0	<5.0
Bromoform	40	NS	NS	NS	NS	NS	<20.0	<8.0	<20.0
Bromomethane	10	NS	NS	NS	NS	NS	<20.0	<8.0	<20.0
Carbon tetrachloride	3	NS	NS	NS	NS	NS	<5.0	<2.0	<5.0
Chlorobenzene	100	NS	NS	NS	NS	NS	<5.0	<2.0	<5.0
Chloroethane	300	NS	NS	NS	NS	NS	<5.0	<2.0	<5.0
Chloroform	30	NS	NS	NS	NS	NS	<5.0	<2.0	<5.0
Chloromethane	NL	NS	NS	NS	NS	NS	<20.0	<8.0	<20.0
cis-1,2-Dichloroethene	50	NS	NS	NS	NS	NS	<5.0	<2.0	<5.0
cis-1,3-Dichloropropene	NL	NS	NS	NS	NS	NS	<20.0	<8.0	<20.0
Dibromochloromethane	10	NS	NS	NS	NS	NS	<5.0	<2.0	<5.0
Dibromomethane	NL	NS	NS	NS	NS	NS	<20.0	<8.0	<20.0
Dichlorodifluoromethane	1000	NS	NS	NS	NS	NS	<5.0	<2.0	<5.0
Dichlorofluoromethane	NL	NS	NS	NS	NS	NS	<5.0	<2.0	<5.0
Diethyl ether (Ethyl ether)	1000	NS	NS	NS	NS	NS	<20.0	<8.0	<20.0
Ethylbenzene	700	NS	NS	NS	NS	NS	<5.0	<2.0	<5.0
Hexachloro-1,3-butadiene	1	NS	NS	NS	NS	NS	<25.0	<10.0	<25.0
Isopropylbenzene (Cumene)	300	NS	NS	NS	NS	NS	<5.0	<2.0	<5.0
m&p-Xylene	NL	NS	NS	NS	NS	NS	<10.0	<4.0	<10.0
Methylene Chloride	5	NS	NS	NS	NS	NS	<20.0	<8.0	<20.0
Methyl-tert-butyl ether	70	NS	NS	NS	NS	NS	<5.0	<2.0	<5.0
Naphthalene	300	NS	NS	NS	NS	NS	<20.0	<8.0	<20.0
n-Butylbenzene	NL	NS	NS	NS	NS	NS	<5.0	<2.0	<5.0
n-Propylbenzene	NL	NS	NS	NS	NS	NS	<5.0	<2.0	<5.0
o-Xylene	NL	NS	NS	NS	NS	NS	<5.0	<2.0	<5.0
p-Isopropyltoluene	NL	NS	NS	NS	NS	NS	<5.0	<2.0	<5.0
sec-Butylbenzene	NL	NS	NS	NS	NS	NS	<5.0	<2.0	<5.0
Styrene	NL	NS	NS	NS	NS	NS	<5.0	<2.0	<5.0
tert-Butylbenzene	NL	NS	NS	NS	NS	NS	<5.0	<2.0	<5.0
Tetrachloroethene	5	NS	NS	NS	NS	NS	389	700	698
Tetrahydrofuran	100	NS	NS	NS	NS	NS	<50.0	<20.0	<50.0
Toluene	1000	NS	NS	NS	NS	NS	<5.0	<2.0	<5.0
trans-1,2-Dichloroethene	100	NS	NS	NS	NS	NS	<20.0	<8.0	<20.0
trans-1,3-Dichloropropene	NL	NS	NS	NS	NS	NS	<20.0	<8.0	<20.0
Trichloroethene	5	NS	NS	NS	NS	NS	<5.0	<2.0	<5.0
Trichlorofluoromethane	2000	NS	NS	NS	NS	NS	<5.0	<2.0	<5.0
Vinyl chloride	0.2	NS	NS	NS	NS	NS	<2.0	<0.80	<2.0
Xylene (Total)	10000	NS	NS	NS	NS	NS	<15.0	<6.0	<15.0

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	DPE-8	DPE-8	DPE-8	DPE-8	DPE-8	DPE-8	DPE-8
		03/01/11	12/22/10	08/18/10	05/13/10	02/22/10	11/17/09	09/24/09	12/10/08
1,1,1,2-Tetrachloroethane	70	<2.0	<1.0	<1.0	<1.0	<1.0	<10.0	<2.0	NA*
1,1,1-Trichloroethane	9000	<2.0	<1.0	<1.0	<1.0	<1.0	<10.0	<2.0	NA*
1,1,2,2-Tetrachloroethane	2	<2.0	<1.0	<1.0	<1.0	<1.0	<10.0	<2.0	NA*
1,1,2-Trichloroethane	3	<2.0	<1.0	<1.0	<1.0	<1.0	<10.0	<2.0	NA*
1,1,2-Trichlorotrifluoroethane	200000	48.7	33.5	5.9	2.2	3.8	34.2	43.4	NA*
1,1-Dichloroethane	70	<2.0	<1.0	<1.0	<1.0	<1.0	<10.0	<2.0	NA*
1,1-Dichloroethene	6	<2.0	<1.0	<1.0	<1.0	<1.0	<10.0	<2.0	<100
1,1-Dichloropropene	NL	<2.0	<1.0	<1.0	<1.0	<1.0	<10.0	<2.0	NA*
1,2,3-Trichlorobenzene	NL	<2.0	<1.0	<1.0	<1.0	<1.0	<10.0	<2.0	NA*
1,2,3-Trichloropropane	40	<8.0	<1.0	<1.0	<1.0	<1.0	<10.0	<2.0	NA*
1,2,4-Trichlorobenzene	NL	<2.0	<1.0	<1.0	<1.0	<1.0	<10.0	<2.0	NA*
1,2,4-Trimethylbenzene	NL	<2.0	<1.0	<1.0	<1.0	<1.0	<10.0	<2.0	NA*
1,2-Dibromo-3-chloropropane	NL	<8.0	<4.0	<4.0	<4.0	<4.0	<4.0	<8.0	NA*
1,2-Dibromoethane (EDB)	.004	<2.0	<1.0	<1.0	<1.0	<1.0	<10.0	<2.0	NA*
1,2-Dichlorobenzene	600	<2.0	<1.0	<1.0	<1.0	<1.0	<10.0	<2.0	NA*
1,2-Dichloroethane	4	<2.0	<1.0	<1.0	<1.0	<1.0	<10.0	<2.0	NA*
1,2-Dichloropropane	5	<2.0	<1.0	<1.0	<1.0	<1.0	<10.0	<2.0	NA*
1,3,5-Trimethylbenzene	100	<2.0	<1.0	<1.0	<1.0	<1.0	<10.0	<2.0	NA*
1,3-Dichlorobenzene	NL	<2.0	<1.0	<1.0	<1.0	<1.0	<10.0	<2.0	NA*
1,3-Dichloropropane	NL	<2.0	<1.0	<1.0	<1.0	<1.0	<10.0	<2.0	NA*
1,4-Dichlorobenzene	10	<2.0	<1.0	<1.0	<1.0	<1.0	<10.0	<2.0	NA*
2,2-Dichloropropane	NL	<8.0	<4.0	<4.0	<4.0	<1.0	<4.0	<2.0	NA*
2-Butanone (MEK)	4000	<8.0	<4.0	<4.0	<4.0	<4.0	<4.0	24.1	NA*
2-Chlorotoluene	NL	<2.0	<1.0	<1.0	<1.0	<1.0	<10.0	<2.0	NA*
4-Chlorotoluene	NL	<2.0	<1.0	<1.0	<1.0	<1.0	<10.0	<2.0	NA*
4-Methyl-2-pentanone (MIBK)	300	<8.0	<4.0	<4.0	<4.0	<4.0	<4.0	<8.0	NA*
Acetone	700	<50.0	<10.0	<10.0	<10.0	12.9	<100	<20.0	NA*
Allyl chloride	30	<8.0	<4.0	<4.0	<4.0	<4.0	<4.0	<8.0	NA*
Benzene	2	<2.0	<1.0	<1.0	<1.0	<1.0	<10.0	<2.0	NA*
Bromobenzene	NL	<2.0	<1.0	<1.0	<1.0	<1.0	<10.0	<2.0	NA*
Bromochloromethane	NL	<2.0	<1.0	<1.0	<1.0	<1.0	<10.0	<2.0	NA*
Bromodichloromethane	6	<2.0	<1.0	<1.0	<1.0	<1.0	<10.0	<2.0	NA*
Bromoform	40	<16.0	<8.0	<8.0	<8.0	<8.0	<8.0	<16.0	NA*
Bromomethane	10	<8.0	<4.0	<4.0	<4.0	<4.0	<4.0	<8.0	NA*
Carbon tetrachloride	3	<8.0	<4.0	<4.0	<4.0	<1.0	<4.0	<2.0	NA*
Chlorobenzene	100	<2.0	<1.0	<1.0	<1.0	<1.0	<10.0	<2.0	NA*
Chloroethane	300	<2.0	<1.0	<1.0	<1.0	<1.0	<10.0	<2.0	NA*
Chloroform	30	<2.0	<1.0	<1.0	<1.0	<1.0	<10.0	<2.0	NA*
Chloromethane	NL	<8.0	<4.0	<4.0	<4.0	<4.0	<4.0	<8.0	NA*
cis-1,2-Dichloroethene	50	<2.0	<1.0	<1.0	<1.0	<1.0	<10.0	<2.0	<100
cis-1,3-Dichloropropene	NL	<8.0	<4.0	<4.0	<4.0	<4.0	<4.0	<8.0	NA*
Dibromochloromethane	10	<2.0	<1.0	<1.0	<1.0	<1.0	<10.0	<2.0	NA*
Dibromomethane	NL	<8.0	<4.0	<4.0	<4.0	<1.0	<10.0	<2.0	NA*
Dichlorodifluoromethane	1000	<2.0	<1.0	<1.0	<1.0	<1.0	<10.0	<2.0	NA*
Dichlorofluoromethane	NL	<2.0	<1.0	<1.0	<1.0	<1.0	<10.0	<2.0	NA*
Diethyl ether (Ethyl ether)	1000	<8.0	<4.0	<4.0	<4.0	<4.0	<4.0	<8.0	NA*
Ethylbenzene	700	<2.0	<1.0	<1.0	<1.0	<1.0	<10.0	<2.0	NA*
Hexachloro-1,3-butadiene	1	<8.0	<4.0	<4.0	<4.0	<4.0	<4.0	<8.0	NA*
Isopropylbenzene (Cumene)	300	<2.0	<1.0	<1.0	<1.0	<1.0	<10.0	<2.0	NA*
m&p-Xylene	NL	<4.0	<2.0	<2.0	<2.0	<2.0	<2.0	<4.0	NA*
Methylene Chloride	5	<8.0	<4.0	<4.0	<4.0	<4.0	<4.0	<8.0	NA*
Methyl-tert-butyl ether	70	<2.0	<1.0	<1.0	<1.0	<1.0	<10.0	<2.0	NA*
Naphthalene	300	<8.0	<4.0	<4.0	<4.0	<4.0	<4.0	<8.0	NA*
n-Butylbenzene	NL	<2.0	<1.0	<1.0	<1.0	<1.0	<10.0	<2.0	NA*
n-Propylbenzene	NL	<2.0	<1.0	<1.0	<1.0	<1.0	<10.0	<2.0	NA*
o-Xylene	NL	<2.0	<1.0	<1.0	<1.0	<1.0	<10.0	<2.0	NA*
p-Isopropyltoluene	NL	<2.0	<1.0	<1.0	<1.0	<1.0	<10.0	<2.0	NA*
sec-Butylbenzene	NL	<2.0	<1.0	<1.0	<1.0	<1.0	<10.0	<2.0	NA*
Styrene	NL	<2.0	<1.0	<1.0	<1.0	<1.0	<10.0	<2.0	NA*
tert-Butylbenzene	NL	<2.0	<1.0	<1.0	<1.0	<1.0	<10.0	<2.0	NA*
Tetrachloroethene	5	415	262	131	66.9	90.3	1,480	1,850	14,200
Tetrahydrofuran	100	<20.0	<10.0	<10.0	<10.0	18.4	<100	46.1	NA*
Toluene	1000	<2.0	<1.0	<1.0	<1.0	<1.0	<10.0	<2.0	NA*
trans-1,2-Dichloroethene	100	<2.0	<1.0	<1.0	<1.0	<1.0	<10.0	<2.0	<100
trans-1,3-Dichloropropene	NL	<8.0	<4.0	<4.0	<4.0	<4.0	<4.0	<8.0	NA*
Trichloroethene	5	<2.0	<1.0	<1.0	<1.0	<1.0	<10.0	<2.0	<100
Trichlorofluoromethane	2000	<2.0	<1.0	<1.0	<1.0	<1.0	<10.0	<2.0	NA*
Vinyl chloride	0.2	<0.80	<0.40	<0.40	<0.40	<0.40	<4.0	<0.80	<40.0
Xylene (Total)	10000	<6.0	<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	MW-14	MW-14	MW-14	MW-14	MW-14	MW-14	MW-14
		02/25/13	12/21/12	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	<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	<4.0
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	<5.0	<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	<5.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Acetone	700	<20.0	<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	<4.0
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	<1.0
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	2.0	2.1	1.6	1.4	1.2	1.4	1.6	1.9
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	<5.0
Isopropylbenzene (Cumene)	300	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
m&p-Xylene	NL	<4.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Methylene Chloride	5	<1.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Methyl-tert-butyl ether	70	NA	<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	NA	<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	1.3	<1.0	<1.0	<1.0	1.5	1.5	5.0
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	<1.0	<4.0	<4.0	<4.0
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	MW-14	MW-14	MW-14	MW-14	MW-14	MW-14	MW-14	
		03/01/11	11/18/10	08/18/10	05/12/10	02/23/10	11/16/09	10/01/09	12/03/08	
1,1,1,2-Tetrachloroethane	70	<1.0	<1.0	<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	<1.0	<1.0	NA*
1,1,2,2-Tetrachloroethane	2	<1.0	<1.0	<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	<1.0	<1.0	NA*
1,1,2-Trichlorotrifluoroethane	200000	<1.0	<1.0	<1.0	<1.0	<1.0	1.1	<1.0	<1.0	NA*
1,1-Dichloroethane	70	<1.0	<1.0	<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	<1.0	<1.0
1,1-Dichloropropene	NL	<1.0	<1.0	<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	<1.0	<1.0	NA*
1,2,3-Trichloropropane	40	<4.0	<1.0	<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	<1.0	<1.0	NA*
1,2,4-Trimethylbenzene	NL	<1.0	<1.0	<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	<4.0	<4.0	NA*
1,2-Dibromoethane (EDB)	.004	<1.0	<1.0	<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	<1.0	<1.0	NA*
1,2-Dichloroethane	4	<1.0	<1.0	<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	<1.0	<1.0	NA*
1,3,5-Trimethylbenzene	100	<1.0	<1.0	<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	<1.0	<1.0	NA*
1,3-Dichloropropane	NL	<1.0	<1.0	<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	<1.0	<1.0	NA*
2,2-Dichloropropane	NL	<4.0	<4.0	<4.0	<4.0	<1.0	<4.0	<1.0	<1.0	NA*
2-Butanone (MEK)	4000	<4.0	<4.0	<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	<1.0	<1.0	NA*
4-Chlorotoluene	NL	<1.0	<1.0	<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	<4.0	<4.0	NA*
Acetone	700	<25.0	<10.0	<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	<4.0	<4.0	NA*
Benzene	2	<1.0	<1.0	<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	<1.0	<1.0	NA*
Bromochloromethane	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
Bromodichloromethane	6	<1.0	<1.0	<1.0	1.1	<1.0	<1.0	<1.0	<1.0	NA*
Bromoform	40	<8.0	<8.0	<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	<4.0	<4.0	NA*
Carbon tetrachloride	3	<4.0	<4.0	<4.0	<4.0	<1.0	<4.0	<4.0	<1.0	NA*
Chlorobenzene	100	<1.0	<1.0	<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	<1.0	<1.0	NA*
Chloroform	30	2.3	3.5	3.0	4.1	3.2	2.7	3.7		NA*
Chloromethane	NL	<4.0	<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	<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	NA*
Dibromochloromethane	10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
Dibromomethane	NL	<4.0	<4.0	<4.0	<4.0	<1.0	<1.0	<1.0	<1.0	NA*
Dichlorodifluoromethane	1000	<1.0	<1.0	<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	<1.0	<1.0	NA*
Diethyl ether (Ethyl ether)	1000	<4.0	<4.0	<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	<1.0	<1.0	NA*
Hexachloro-1,3-butadiene	1	<4.0	<4.0	<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	<1.0	<1.0	NA*
m&p-Xylene	NL	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	NA*
Methylene Chloride	5	7.2	<4.0	<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	<1.0	<1.0	NA*
Naphthalene	300	<4.0	<4.0	<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	<1.0	<1.0	NA*
n-Propylbenzene	NL	<1.0	<1.0	<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	<1.0	<1.0	NA*
p-Isopropyltoluene	NL	<1.0	<1.0	<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	<1.0	<1.0	NA*
Styrene	NL	<1.0	<1.0	<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	<1.0	<1.0	NA*
Tetrachloroethene	5	4.8	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	<10.0	<10.0	NA*
Toluene	1000	<1.0	<1.0	<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	<1.0	<1.0
trans-1,3-Dichloropropene	NL	<4.0	<4.0	<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	<1.0	<1.0
Trichlorofluoromethane	2000	<1.0	<1.0	<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	<0.40	<0.40
Xylene (Total)	10000	<3.0	<3.0	<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	MW-15	MW-15	MW-15	MW-15	MW-15	MW-15	MW-15
		02/25/13	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	<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	1.1	<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	<4.0
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	<5.0	<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	<5.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Acetone	700	<20.0	<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	<4.0
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	<1.0
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	2.8
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	<5.0
Isopropylbenzene (Cumene)	300	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
m&p-Xylene	NL	<4.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Methylene Chloride	5	<1.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Methyl-tert-butyl ether	70	NA	<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	NA	<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	<1.0	1.2	<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	<1.0	<4.0	<4.0	<4.0
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	MW-15	MW-15	MW-15	MW-15	MW-15	MW-15	MW-15	
		03/01/11	11/18/10	08/18/10	05/12/10	02/22/10	11/16/09	10/01/09	12/10/08	
1,1,1,2-Tetrachloroethane	70	<1.0	<1.0	<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	<1.0	<1.0	NA*
1,1,2,2-Tetrachloroethane	2	<1.0	<1.0	<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	<1.0	<1.0	NA*
1,1,2-Trichlorotrifluoroethane	200000	<1.0	2.0	<1.0	1.5	3.3	6.4	6.4	<1.0	NA*
1,1-Dichloroethane	70	<1.0	<1.0	<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	<1.0	<1.0
1,1-Dichloropropene	NL	<1.0	<1.0	<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	<1.0	<1.0	NA*
1,2,3-Trichloropropane	40	<4.0	<1.0	<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	<1.0	<1.0	NA*
1,2,4-Trimethylbenzene	NL	<1.0	<1.0	<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	<4.0	<4.0	NA*
1,2-Dibromoethane (EDB)	.004	<1.0	<1.0	<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	<1.0	<1.0	NA*
1,2-Dichloroethane	4	<1.0	<1.0	<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	<1.0	<1.0	NA*
1,3,5-Trimethylbenzene	100	<1.0	<1.0	<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	<1.0	<1.0	NA*
1,3-Dichloropropane	NL	<1.0	<1.0	<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	<1.0	<1.0	NA*
2,2-Dichloropropane	NL	<4.0	<4.0	<4.0	<4.0	<1.0	<4.0	<1.0	<1.0	NA*
2-Butanone (MEK)	4000	<4.0	<4.0	<4.0	<4.0	<4.0	5.1	<4.0	<4.0	NA*
2-Chlorotoluene	NL	<1.0	<1.0	<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	<1.0	<1.0	NA*
4-Methyl-2-pentanone (MIBK)	300	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	NA*
Acetone	700	<25.0	<10.0	<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	<4.0	<4.0	NA*
Benzene	2	<1.0	<1.0	<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	<1.0	<1.0	NA*
Bromochloromethane	NL	<1.0	<1.0	<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	<1.0	<1.0	NA*
Bromoform	40	<8.0	<8.0	<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	<4.0	<4.0	NA*
Carbon tetrachloride	3	<4.0	<4.0	<4.0	<4.0	<1.0	<4.0	<4.0	<1.0	NA*
Chlorobenzene	100	<1.0	<1.0	<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	<1.0	<1.0	NA*
Chloroform	30	1.2	1.8	<1.0	1.3	1.4	2.2	2.2	<1.0	NA*
Chloromethane	NL	<4.0	<4.0	<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	<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	NA*
Dibromochloromethane	10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
Dibromomethane	NL	<4.0	<4.0	<4.0	<4.0	<1.0	<1.0	<1.0	<1.0	NA*
Dichlorodifluoromethane	1000	<1.0	<1.0	<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	<1.0	<1.0	NA*
Diethyl ether (Ethyl ether)	1000	<4.0	<4.0	<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	<1.0	<1.0	NA*
Hexachloro-1,3-butadiene	1	<4.0	<4.0	<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	<1.0	<1.0	NA*
m&p-Xylene	NL	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	NA*
Methylene Chloride	5	6.4	<4.0	<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	<1.0	<1.0	NA*
Naphthalene	300	<4.0	<4.0	<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	<1.0	<1.0	NA*
n-Propylbenzene	NL	<1.0	<1.0	<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	<1.0	<1.0	NA*
p-Isopropyltoluene	NL	<1.0	<1.0	<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	<1.0	<1.0	NA*
Styrene	NL	<1.0	<1.0	<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	<1.0	<1.0	NA*
Tetrachloroethene	5	<1.0	3.3	1.3	2.8	5.7	9.5	15.7	104	NA*
Tetrahydrofuran	100	<10.0	<10.0	<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	<1.0	<1.0	NA*
trans-1,2-Dichloroethene	100	<1.0	<1.0	<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	<4.0	<4.0	NA*
Trichloroethene	5	<1.0	<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	NA*
Vinyl chloride	0.2	<0.40	<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	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-16	MW-16	MW-16	MW-16	MW-16	MW-16	MW-16	MW-16
		02/25/13	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	<1.0	<2.0	<2.0
1,1,1-Trichloroethane	9000	<1.0	<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	<1.0	<2.0	<2.0
1,1,2-Trichloroethane	3	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<2.0
1,1,2-Trichlorotrifluoroethane	200000	<1.0	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	<1.0	<2.0	<2.0
1,1-Dichloroethene	6	<1.0	<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	<1.0	<2.0	<2.0
1,2,3-Trichlorobenzene	NL	<1.0	<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	<4.0	<8.0	<8.0
1,2,4-Trichlorobenzene	NL	<1.0	<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	<1.0	<2.0	<2.0
1,2-Dibromo-3-chloropropane	NL	<4.0	<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	<1.0	<2.0	<2.0
1,2-Dichlorobenzene	600	<1.0	<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	<1.0	<2.0	<2.0
1,2-Dichloropropane	5	<4.0	<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	<1.0	<2.0	<2.0
1,3-Dichlorobenzene	NL	<1.0	<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	<1.0	<2.0	<2.0
1,4-Dichlorobenzene	10	<1.0	<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	<4.0	<8.0	<8.0
2-Butanone (MEK)	4000	<5.0	<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	<1.0	<2.0	<2.0
4-Chlorotoluene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<2.0
4-Methyl-2-pentanone (MIBK)	300	<5.0	<4.0	<4.0	<4.0	<4.0	<4.0	<8.0	<8.0
Acetone	700	<20.0	<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	<4.0	<8.0	<8.0
Benzene	2	<1.0	<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	<1.0	<2.0	<2.0
Bromochloromethane	NL	<1.0	<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	<1.0	<2.0	<2.0
Bromoform	40	<4.0	<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	<4.0	<8.0	<8.0
Carbon tetrachloride	3	<1.0	<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	<1.0	<2.0	<2.0
Chloroethane	300	<1.0	<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	<1.0	<2.0	<2.0
Chloromethane	NL	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<8.0	<8.0
cis-1,2-Dichloroethene	50	<1.0	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	<4.0	<8.0	<8.0
Dibromochloromethane	10	<1.0	<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	<4.0	<8.0	<8.0
Dichlorodifluoromethane	1000	<1.0	<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	<1.0	<2.0	<2.0
Diethyl ether (Ethyl ether)	1000	<4.0	<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	<1.0	<2.0	<2.0
Hexachloro-1,3-butadiene	1	<5.0	<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	<1.0	<2.0	<2.0
m&p-Xylene	NL	<4.0	<2.0	<2.0	<2.0	<2.0	<2.0	<4.0	<4.0
Methylene Chloride	5	<1.0	<4.0	<4.0	<4.0	<4.0	<4.0	<8.0	<8.0
Methyl-tert-butyl ether	70	NA	<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	<4.0	<8.0	<8.0
n-Butylbenzene	NL	<1.0	<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	<1.0	<2.0	<2.0
o-Xylene	NL	NA	<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	<1.0	<2.0	<2.0
sec-Butylbenzene	NL	<1.0	<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	<1.0	<2.0	<2.0
tert-Butylbenzene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<2.0
Tetrachloroethene	5	8.0	128	21.8	7.8	16.1	75.0	590	1310
Tetrahydrofuran	100	<10.0	<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	<1.0	<2.0	<2.0
trans-1,2-Dichloroethene	100	<1.0	<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	<4.0	<8.0	<8.0
Trichloroethene	5	<1.0	<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	<1.0	<2.0	<2.0
Vinyl chloride	0.2	<0.40	<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	<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	MW-16	MW-16	MW-16	MW-16	MW-16	MW-16	MW-16
		03/01/11	11/18/10	08/18/10	05/12/10	02/22/10	11/16/09	10/01/09	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	MW-17	MW-17	MW-17	MW-17	MW-17	MW-17	MW-17
		02/25/13	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	<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	7.0	<1.0	2.0	6.3	6.6	11.5	6.5	15.8
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	<4.0
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	<5.0	<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	<5.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Acetone	700	<20.0	<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	<4.0
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	<1.0
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	1.3	1.1	1.1	1.6	1.2	1.4	<1.0	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	1.3	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	<5.0
Isopropylbenzene (Cumene)	300	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
m&p-Xylene	NL	<4.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Methylene Chloride	5	<1.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Methyl-tert-butyl ether	70	NA	<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	NA	<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	49.9	22.0	23.3	37.1	47.1	106	107	109
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	<1.0	<4.0	<4.0	<4.0
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	MW-17	MW-17	MW-17	MW-17	MW-17	MW-17	MW-17
		03/01/11	11/18/10	08/18/10	05/12/10	02/22/10	11/16/09	10/01/09	12/03/08
1,1,1,2-Tetrachloroethane	70	<1.0	<1.0	<1.0	<5.0	<5.0	<5.0	<2.0	NA*
1,1,1-Trichloroethane	9000	<1.0	<1.0	<1.0	<5.0	<5.0	<5.0	<2.0	NA*
1,1,2,2-Tetrachloroethane	2	<1.0	<1.0	<1.0	<5.0	<5.0	<5.0	<2.0	NA*
1,1,2-Trichloroethane	3	<1.0	<1.0	<1.0	<5.0	<5.0	<5.0	<2.0	NA*
1,1,2-Trichlorotrifluoroethane	200000	21.6	25.1	25.4	46.8	76.2	199	249	NA*
1,1-Dichloroethane	70	<1.0	<1.0	<1.0	<5.0	<5.0	<5.0	<2.0	NA*
1,1-Dichloroethene	6	<1.0	<1.0	<1.0	<5.0	<5.0	<5.0	<2.0	<5.0
1,1-Dichloropropene	NL	<1.0	<1.0	<1.0	<5.0	<5.0	<5.0	<2.0	NA*
1,2,3-Trichlorobenzene	NL	<1.0	<1.0	<1.0	<5.0	<5.0	<5.0	<2.0	NA*
1,2,3-Trichloropropane	40	<4.0	<1.0	<1.0	<5.0	<5.0	<5.0	<2.0	NA*
1,2,4-Trichlorobenzene	NL	<1.0	<1.0	<1.0	<5.0	<5.0	<5.0	<2.0	NA*
1,2,4-Trimethylbenzene	NL	<1.0	<1.0	<1.0	<5.0	<5.0	<5.0	<2.0	NA*
1,2-Dibromo-3-chloropropane	NL	<4.0	<4.0	<4.0	<20.0	<20.0	<20.0	<8.0	NA*
1,2-Dibromoethane (EDB)	.004	<1.0	<1.0	<1.0	<5.0	<5.0	<5.0	<2.0	NA*
1,2-Dichlorobenzene	600	<1.0	<1.0	<1.0	<5.0	<5.0	<5.0	<2.0	NA*
1,2-Dichloroethane	4	<1.0	<1.0	<1.0	<5.0	<5.0	<5.0	<2.0	NA*
1,2-Dichloropropane	5	<1.0	<1.0	<1.0	<5.0	<5.0	<5.0	<2.0	NA*
1,3,5-Trimethylbenzene	100	<1.0	<1.0	<1.0	<5.0	<5.0	<5.0	<2.0	NA*
1,3-Dichlorobenzene	NL	<1.0	<1.0	<1.0	<5.0	<5.0	<5.0	<2.0	NA*
1,3-Dichloropropane	NL	<1.0	<1.0	<1.0	<5.0	<5.0	<5.0	<2.0	NA*
1,4-Dichlorobenzene	10	<1.0	<1.0	<1.0	<5.0	<5.0	<5.0	<2.0	NA*
2,2-Dichloropropane	NL	<4.0	<4.0	<4.0	<20.0	<20.0	<20.0	<2.0	NA*
2-Butanone (MEK)	4000	<4.0	<4.0	<4.0	<20.0	<20.0	<20.0	<8.0	NA*
2-Chlorotoluene	NL	<1.0	<1.0	<1.0	<5.0	<5.0	<5.0	<2.0	NA*
4-Chlorotoluene	NL	<1.0	<1.0	<1.0	<5.0	<5.0	<5.0	<2.0	NA*
4-Methyl-2-pentanone (MIBK)	300	<4.0	<4.0	<4.0	<20.0	<20.0	<20.0	<8.0	NA*
Acetone	700	<25.0	<10.0	<10.0	<50.0	<50.0	<50.0	<20.0	NA*
Allyl chloride	30	<4.0	<4.0	<4.0	<20.0	<20.0	<20.0	<8.0	NA*
Benzene	2	<1.0	<1.0	<1.0	<5.0	<5.0	<5.0	<2.0	NA*
Bromobenzene	NL	<1.0	<1.0	<1.0	<5.0	<5.0	<5.0	<2.0	NA*
Bromochloromethane	NL	<1.0	<1.0	<1.0	<5.0	<5.0	<5.0	<2.0	NA*
Bromodichloromethane	6	<1.0	<1.0	<1.0	<5.0	<5.0	<5.0	<2.0	NA*
Bromoform	40	<8.0	<8.0	<8.0	<40.0	<40.0	<40.0	<16.0	NA*
Bromomethane	10	<10.0	<4.0	<4.0	<20.0	<20.0	<20.0	<8.0	NA*
Carbon tetrachloride	3	<4.0	<4.0	<4.0	<20.0	<20.0	<20.0	<2.0	NA*
Chlorobenzene	100	<1.0	<1.0	<1.0	<5.0	<5.0	<5.0	<2.0	NA*
Chloroethane	300	<1.0	<1.0	<1.0	<5.0	<5.0	<5.0	<2.0	NA*
Chloroform	30	1.4	1.8	2.5	<5.0	<5.0	<5.0	2.4	NA*
Chloromethane	NL	<4.0	<4.0	<4.0	<20.0	<20.0	<20.0	<8.0	NA*
cis-1,2-Dichloroethene	50	1.8	2.2	2.4	<5.0	5.4	7.9	4.8	<5.0
cis-1,3-Dichloropropene	NL	<4.0	<4.0	<4.0	<20.0	<20.0	<20.0	<8.0	NA*
Dibromochloromethane	10	<1.0	<1.0	<1.0	<5.0	<5.0	<5.0	<2.0	NA*
Dibromomethane	NL	<4.0	<4.0	<4.0	<20.0	<20.0	<5.0	<2.0	NA*
Dichlorodifluoromethane	1000	<1.0	<1.0	<1.0	<5.0	<5.0	<5.0	<2.0	NA*
Dichlorofluoromethane	NL	<1.0	<1.0	<1.0	<5.0	<5.0	<5.0	<2.0	NA*
Diethyl ether (Ethyl ether)	1000	<4.0	<4.0	<4.0	<20.0	<20.0	<20.0	<8.0	NA*
Ethylbenzene	700	<1.0	<1.0	<1.0	<5.0	<5.0	<5.0	<2.0	NA*
Hexachloro-1,3-butadiene	1	<4.0	<4.0	<4.0	<20.0	<20.0	<20.0	<8.0	NA*
Isopropylbenzene (Cumene)	300	<1.0	<1.0	<1.0	<5.0	<5.0	<5.0	<2.0	NA*
m&p-Xylene	NL	<2.0	<2.0	<2.0	<10.0	<10.0	<10.0	<4.0	NA*
Methylene Chloride	5	6.1	<4.0	<4.0	<20.0	<20.0	<20.0	<8.0	NA*
Methyl-tert-butyl ether	70	<1.0	<1.0	<1.0	<5.0	<5.0	<5.0	<2.0	NA*
Naphthalene	300	<4.0	<4.0	<4.0	<20.0	<20.0	<20.0	<8.0	NA*
n-Butylbenzene	NL	<1.0	<1.0	<1.0	<5.0	<5.0	<5.0	<2.0	NA*
n-Propylbenzene	NL	<1.0	<1.0	<1.0	<5.0	<5.0	<5.0	<2.0	NA*
o-Xylene	NL	<1.0	<1.0	<1.0	<5.0	<5.0	<5.0	<2.0	NA*
p-Isopropyltoluene	NL	<1.0	<1.0	<1.0	<5.0	<5.0	<5.0	<2.0	NA*
sec-Butylbenzene	NL	<1.0	<1.0	<1.0	<5.0	<5.0	<5.0	<2.0	NA*
Styrene	NL	<1.0	<1.0	<1.0	<5.0	<5.0	<5.0	<2.0	NA*
tert-Butylbenzene	NL	<1.0	<1.0	<1.0	<5.0	<5.0	<5.0	<2.0	NA*
Tetrachloroethene	5	145	209	174	412	639	1,100	803	363
Tetrahydrofuran	100	<10.0	<10.0	<10.0	<50.0	<50.0	<50.0	<20.0	NA*
Toluene	1000	<1.0	<1.0	<1.0	<5.0	<5.0	<5.0	<2.0	NA*
trans-1,2-Dichloroethene	100	<1.0	<1.0	<1.0	<5.0	<5.0	<5.0	<2.0	<5.0
trans-1,3-Dichloropropene	NL	<4.0	<4.0	<4.0	<20.0	<20.0	<20.0	<8.0	NA*
Trichloroethene	5	<1.0	<1.0	<1.0	<5.0	<5.0	<5.0	<2.0	<5.0
Trichlorofluoromethane	2000	<1.0	<1.0	<1.0	<5.0	<5.0	<5.0	<2.0	NA*
Vinyl chloride	0.2	<0.40	<0.40	<0.40	<2.0	<2.0	<2.0	<0.80	<2.0
Xylene (Total)	10000	<3.0	<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 Collected Date and Time	MDH Health Risk Limits 5/09	MW-18	MW-18	MW-18	MW-18	MW-18	MW-18	MW-18	MW-18
		02/25/13	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	<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	<4.0
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	<5.0	<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	<5.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Acetone	700	<20.0	<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	<4.0
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	<1.0
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	<5.0
Isopropylbenzene (Cumene)	300	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
m&p-Xylene	NL	<4.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Methylene Chloride	5	<1.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Methyl-tert-butyl ether	70	NA	<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	NA	<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	2.3	<1.0	1.8	1.5	2.9	3.6	3.6	3.6
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	<1.0	<4.0	<4.0	<4.0
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	MDH Health Risk Limits 5/09	MW-18 03/01/11	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	<1.0	NA*
1,1,1-Trichloroethane	9000	<1.0	<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	<1.0	NA*
1,1,2-Trichloroethane	3	<1.0	<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	2.0	<1.0	2.7	NA*
1,1-Dichloroethane	70	<1.0	<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	<2.0
1,1-Dichloropropene	NL	<1.0	<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	<1.0	NA*
1,2,3-Trichloropropane	40	<4.0	<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	<1.0	NA*
1,2,4-Trimethylbenzene	NL	<1.0	<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	<4.0	NA*
1,2-Dibromoethane (EDB)	.004	<1.0	<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	<1.0	NA*
1,2-Dichloroethane	4	<1.0	<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	<1.0	NA*
1,3,5-Trimethylbenzene	100	<1.0	<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	<1.0	NA*
1,3-Dichloropropane	NL	<1.0	<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	<1.0	NA*
2,2-Dichloropropane	NL	<4.0	<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	<4.0	NA*
2-Chlorotoluene	NL	<1.0	<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	<1.0	NA*
4-Methyl-2-pentanone (MIBK)	300	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	NA*
Acetone	700	<25.0	<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	<4.0	NA*
Benzene	2	<1.0	<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	<1.0	NA*
Bromochloromethane	NL	<1.0	<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	<1.0	NA*
Bromoform	40	<8.0	<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	<4.0	NA*
Carbon tetrachloride	3	<4.0	<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	<1.0	NA*
Chloroethane	300	<1.0	<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	<1.0	NA*
Chloromethane	NL	<4.0	<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	<2.0
cis-1,3-Dichloropropene	NL	<4.0	<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	<1.0	NA*
Dibromomethane	NL	<4.0	<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	<1.0	NA*
Dichlorofluoromethane	NL	<1.0	<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	<4.0	NA*
Ethylbenzene	700	<1.0	<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	<4.0	NA*
Isopropylbenzene (Cumene)	300	<1.0	<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	<2.0	NA*
Methylene Chloride	5	7.2	<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	<1.0	NA*
Naphthalene	300	<4.0	<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	<1.0	NA*
n-Propylbenzene	NL	<1.0	<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	<1.0	NA*
p-Isopropyltoluene	NL	<1.0	<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	<1.0	NA*
Styrene	NL	<1.0	<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	<1.0	NA*
Tetrachloroethene	5	4.8	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	<10.0	NA*
Toluene	1000	<1.0	<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	<2.0
trans-1,3-Dichloropropene	NL	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	NA*
Trichloroethene	5	<1.0	<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	<1.0	NA*
Vinyl chloride	0.2	<0.40	<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	<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-19	MW-19	MW-19	MW-19	MW-19	MW-19	MW-19	MW-19
		02/25/13	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	<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	<4.0
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	<5.0	<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	<5.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Acetone	700	<20.0	<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	<4.0
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	<1.0
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	<5.0
Isopropylbenzene (Cumene)	300	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
m&p-Xylene	NL	<4.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Methylene Chloride	5	<1.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Methyl-tert-butyl ether	70	NA	<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	NA	<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	1.4	<1.0	1.1	2.2	2.7	2.9	4.7
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	<1.0	<4.0	<4.0	<4.0
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	MW-19	MW-19	MW-19	MW-19	MW-19	MW-19	MW-19
		03/01/11	11/18/10	08/18/10	05/12/10	02/23/10	11/16/09	09/24/09	12/03/08
1,1,1,2-Tetrachloroethane	70	<1.0	<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	<1.0	NA*
1,1,2,2-Tetrachloroethane	2	<1.0	<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	<1.0	NA*
1,1,2-Trichlorotrifluoroethane	200000	<1.0	<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	<1.0	NA*
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	NA*
1,2,3-Trichlorobenzene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
1,2,3-Trichloropropane	40	<4.0	<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	<1.0	NA*
1,2,4-Trimethylbenzene	NL	<1.0	<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	<4.0	NA*
1,2-Dibromoethane (EDB)	.004	<1.0	<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	<1.0	NA*
1,2-Dichloroethane	4	<1.0	<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	<1.0	NA*
1,3,5-Trimethylbenzene	100	<1.0	<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	<1.0	NA*
1,3-Dichloropropane	NL	<1.0	<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	<1.0	NA*
2,2-Dichloropropane	NL	<4.0	<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	5.5	NA*
2-Chlorotoluene	NL	<1.0	<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	<1.0	NA*
4-Methyl-2-pentanone (MIBK)	300	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	NA*
Acetone	700	<25.0	<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	<4.0	NA*
Benzene	2	<1.0	<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	<1.0	NA*
Bromochloromethane	NL	<1.0	<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	<1.0	NA*
Bromoform	40	<8.0	<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	<4.0	NA*
Carbon tetrachloride	3	<4.0	<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	<1.0	NA*
Chloroethane	300	<1.0	<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	<1.0	NA*
Chloromethane	NL	<4.0	<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	<1.0
cis-1,3-Dichloropropene	NL	<4.0	<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	<1.0	NA*
Dibromomethane	NL	<4.0	<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	<1.0	NA*
Dichlorofluoromethane	NL	<1.0	<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	<4.0	NA*
Ethylbenzene	700	<1.0	<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	<4.0	NA*
Isopropylbenzene (Cumene)	300	<1.0	<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	<2.0	NA*
Methylene Chloride	5	5.2	<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	<1.0	NA*
Naphthalene	300	<4.0	<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	<1.0	NA*
n-Propylbenzene	NL	<1.0	<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	<1.0	NA*
p-Isopropyltoluene	NL	<1.0	<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	<1.0	NA*
Styrene	NL	<1.0	<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	<1.0	NA*
Tetrachloroethene	5	4.8	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	<10.0	NA*
Toluene	1000	<1.0	<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	<1.0
trans-1,3-Dichloropropene	NL	<4.0	<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	<1.0
Trichlorofluoromethane	2000	<1.0	<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	<0.40
Xylene (Total)	10000	<3.0	<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	MW-20	MW-20	MW-20	MW-20	MW-20	MW-20	MW-20
		02/25/13	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	<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	1.4	1.3	1.3	1.5	2.1	2.5	<1.0	2.3
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	<4.0
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	<5.0	<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	<5.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Acetone	700	<20.0	<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	<4.0
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	<1.0
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	<5.0
Isopropylbenzene (Cumene)	300	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
m&p-Xylene	NL	<4.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Methylene Chloride	5	<1.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Methyl-tert-butyl ether	70	NA	<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	NA	<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	50.2	40.8	17.4	28.7	41.8	32.5	12.2	16.8
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	<1.0	<4.0	<4.0	<4.0
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	MW-20	MW-20	MW-20	MW-20	MW-20	MW-20	MW-20
		03/01/11	11/18/10	08/18/10	05/12/10	02/23/10	11/16/09	10/01/09	12/10/08
1,1,1,2-Tetrachloroethane	70	<1.0	<1.0	<1.0	<2.0	<2.0	<2.0	<1.0	NA*
1,1,1-Trichloroethane	9000	<1.0	<1.0	<1.0	<2.0	<2.0	<2.0	<1.0	NA*
1,1,2,2-Tetrachloroethane	2	<1.0	<1.0	<1.0	<2.0	<2.0	<2.0	<1.0	NA*
1,1,2-Trichloroethane	3	<1.0	<1.0	<1.0	<2.0	<2.0	<2.0	<1.0	NA*
1,1,2-Trichlorotrifluoroethane	200000	8.6	2.7	2.8	11.2	20.9	37.4	33.5	NA*
1,1-Dichloroethane	70	<1.0	<1.0	<1.0	<2.0	<2.0	<2.0	<1.0	NA*
1,1-Dichloroethene	6	<1.0	<1.0	<1.0	<2.0	<2.0	<2.0	<1.0	<5.0
1,1-Dichloropropene	NL	<1.0	<1.0	<1.0	<2.0	<2.0	<2.0	<1.0	NA*
1,2,3-Trichlorobenzene	NL	<1.0	<1.0	<1.0	<2.0	<2.0	<2.0	<1.0	NA*
1,2,3-Trichloropropane	40	<4.0	<1.0	<1.0	<2.0	<2.0	<2.0	<1.0	NA*
1,2,4-Trichlorobenzene	NL	<1.0	<1.0	<1.0	<2.0	<2.0	<2.0	<1.0	NA*
1,2,4-Trimethylbenzene	NL	<1.0	<1.0	<1.0	<2.0	<2.0	<2.0	<1.0	NA*
1,2-Dibromo-3-chloropropane	NL	<4.0	<4.0	<4.0	<8.0	<8.0	<8.0	<4.0	NA*
1,2-Dibromoethane (EDB)	.004	<1.0	<1.0	<1.0	<2.0	<2.0	<2.0	<1.0	NA*
1,2-Dichlorobenzene	600	<1.0	<1.0	<1.0	<2.0	<2.0	<2.0	<1.0	NA*
1,2-Dichloroethane	4	<1.0	<1.0	<1.0	<2.0	<2.0	<2.0	<1.0	NA*
1,2-Dichloropropane	5	<1.0	<1.0	<1.0	<2.0	<2.0	<2.0	<1.0	NA*
1,3,5-Trimethylbenzene	100	<1.0	<1.0	<1.0	<2.0	<2.0	<2.0	<1.0	NA*
1,3-Dichlorobenzene	NL	<1.0	<1.0	<1.0	<2.0	<2.0	<2.0	<1.0	NA*
1,3-Dichloropropane	NL	<1.0	<1.0	<1.0	<2.0	<2.0	<2.0	<1.0	NA*
1,4-Dichlorobenzene	10	<1.0	<1.0	<1.0	<2.0	<2.0	<2.0	<1.0	NA*
2,2-Dichloropropane	NL	<4.0	<4.0	<4.0	<8.0	<2.0	<8.0	<1.0	NA*
2-Butanone (MEK)	4000	<4.0	<4.0	<4.0	<8.0	<8.0	<8.0	<4.0	NA*
2-Chlorotoluene	NL	<1.0	<1.0	<1.0	<2.0	<2.0	<2.0	<1.0	NA*
4-Chlorotoluene	NL	<1.0	<1.0	<1.0	<2.0	<2.0	<2.0	<1.0	NA*
4-Methyl-2-pentanone (MIBK)	300	<4.0	<4.0	<4.0	<8.0	<8.0	<8.0	<4.0	NA*
Acetone	700	<25.0	<10.0	<10.0	<20.0	<20.0	<20.0	<10.0	NA*
Allyl chloride	30	<4.0	<4.0	<4.0	<8.0	<8.0	<8.0	<4.0	NA*
Benzene	2	<1.0	<1.0	<1.0	<2.0	<2.0	<2.0	<1.0	NA*
Bromobenzene	NL	<1.0	<1.0	<1.0	<2.0	<2.0	<2.0	<1.0	NA*
Bromochloromethane	NL	<1.0	<1.0	<1.0	<2.0	<2.0	<2.0	<1.0	NA*
Bromodichloromethane	6	<1.0	<1.0	<1.0	<2.0	<2.0	<2.0	<1.0	NA*
Bromoform	40	<8.0	<8.0	<8.0	<16.0	<16.0	<16.0	<8.0	NA*
Bromomethane	10	<4.0	<4.0	<4.0	<8.0	<8.0	<8.0	<4.0	NA*
Carbon tetrachloride	3	<4.0	<4.0	<4.0	<8.0	<2.0	<8.0	<1.0	NA*
Chlorobenzene	100	<1.0	<1.0	<1.0	<2.0	<2.0	<2.0	<1.0	NA*
Chloroethane	300	<1.0	<1.0	<1.0	<2.0	<2.0	<2.0	<1.0	NA*
Chloroform	30	<1.0	<1.0	<1.0	<2.0	<2.0	<2.0	<1.0	NA*
Chloromethane	NL	<4.0	<4.0	<4.0	<8.0	8.6	<8.0	<4.0	NA*
cis-1,2-Dichloroethene	50	<1.0	<1.0	<1.0	<2.0	<2.0	<2.0	<1.0	<5.0
cis-1,3-Dichloropropene	NL	<4.0	<4.0	<4.0	<8.0	<8.0	<8.0	<4.0	NA*
Dibromochloromethane	10	<1.0	<1.0	<1.0	<2.0	<2.0	<2.0	<1.0	NA*
Dibromomethane	NL	<4.0	<4.0	<4.0	<8.0	<2.0	<2.0	<1.0	NA*
Dichlorodifluoromethane	1000	<1.0	<1.0	<1.0	<2.0	<2.0	<2.0	<1.0	NA*
Dichlorofluoromethane	NL	<1.0	<1.0	<1.0	<2.0	<2.0	<2.0	<1.0	NA*
Diethyl ether (Ethyl ether)	1000	<4.0	<4.0	<4.0	<8.0	<8.0	<8.0	<4.0	NA*
Ethylbenzene	700	<1.0	<1.0	<1.0	<2.0	<2.0	<2.0	<1.0	NA*
Hexachloro-1,3-butadiene	1	<4.0	<4.0	<4.0	<8.0	<8.0	<8.0	<4.0	NA*
Isopropylbenzene (Cumene)	300	<1.0	<1.0	<1.0	<2.0	<2.0	<2.0	<1.0	NA*
m&p-Xylene	NL	<2.0	<2.0	<2.0	<4.0	<4.0	<4.0	<2.0	NA*
Methylene Chloride	5	5.2	<4.0	<4.0	<8.0	<8.0	<8.0	<4.0	NA*
Methyl-tert-butyl ether	70	<1.0	<1.0	<1.0	<2.0	<2.0	<2.0	<1.0	NA*
Naphthalene	300	<4.0	<4.0	<4.0	<8.0	<8.0	<8.0	<4.0	NA*
n-Butylbenzene	NL	<1.0	<1.0	<1.0	<2.0	<2.0	<2.0	<1.0	NA*
n-Propylbenzene	NL	<1.0	<1.0	<1.0	<2.0	<2.0	<2.0	<1.0	NA*
o-Xylene	NL	<1.0	<1.0	<1.0	<2.0	<2.0	<2.0	<1.0	NA*
p-Isopropyltoluene	NL	<1.0	<1.0	<1.0	<2.0	<2.0	<2.0	<1.0	NA*
sec-Butylbenzene	NL	<1.0	<1.0	<1.0	<2.0	<2.0	<2.0	<1.0	NA*
Styrene	NL	<1.0	<1.0	<1.0	<2.0	<2.0	<2.0	<1.0	NA*
tert-Butylbenzene	NL	<1.0	<1.0	<1.0	<2.0	<2.0	<2.0	<1.0	NA*
Tetrachloroethene	5	211	50.9	74.7	194	402	307	713	599
Tetrahydrofuran	100	<10.0	<10.0	<10.0	<20.0	36.1	<20.0	<10.0	NA*
Toluene	1000	<1.0	<1.0	<1.0	<2.0	<2.0	<2.0	<1.0	NA*
trans-1,2-Dichloroethene	100	<1.0	<1.0	<1.0	<2.0	<2.0	<2.0	<1.0	<5.0
trans-1,3-Dichloropropene	NL	<4.0	<4.0	<4.0	<8.0	<8.0	<8.0	<4.0	NA*
Trichloroethene	5	<1.0	<1.0	<1.0	2.9	<2.0	<2.0	<1.0	<5.0
Trichlorofluoromethane	2000	<1.0	<1.0	<1.0	<2.0	<2.0	<2.0	<1.0	NA*
Vinyl chloride	0.2	<0.40	<0.40	<0.40	<0.80	<0.80	<0.80	<0.40	<2.0
Xylene (Total)	10000	<3.0	<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	12/10/2008	09/28/2009	12/10/2008	09/28/200	12/10/2008	09/28/2009	12/10/2008	12/10/2008	09/24/2009
	12:52	13:50	14:22	11:45	9 15:25	10:57	10:13	11:20	16:45	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	09/24/2009	12/10/2008	09/24/2009	12/10/2008	09/24/2009	10/01/2009	12/03/2008
	14:29	04:30	13:15	05:00	09:30	05:30	04:00	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	12/10/2008	10/01/2009	12/03/2008	10/01/2009	12/03/2008	10/01/2009	12/03/2008
	04:20	12:15	04:25	12:35	05:20	13:10	05:46	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	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-14	2/25/2013	19.4	1324	7.17	-11.6	4.4	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-15	2/25/2013	20.7	1416	7.4	-23	1.46	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-16	2/25/2013	19.4	1338	7.48	-27	4.7	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
MW-17	2/25/2013	19.2	1361	7.32	-19.3	1.6	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-18	2/25/2013	19.9	2076	7.11	-85	0.5	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-19	2/25/2013	17.9	6006	7.15	-10.3	2.12	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
MW-20	2/25/2013	18.9	5812	7.04	-4.8	1.3	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
DPE-1	2/26/2013	17.1	1321	7.09	-6	5.1	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-2	2/26/2013	16.4	1062	7.10	-62	4.2	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-3	2/26/2013	18.3	1114	7.11	-51	3.9	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-4	2/26/2013	18.4	951	7.62	-46	4.4	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
DPE-5	2/26/2013	19.2	1801	7.21	-44	4.6	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-6	2/26/2013	17.6	1726	6.91	-40	5.1	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-7	2/26/2013	18.4	1500	7.08	-49	3.2	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*
DPE-8	2/26/2013	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 ₂ O)	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 ₂ O)	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	20.70	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	NR	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/																									

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	12.80	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
1/4/2013	940	497	1735	1,523,769	309,790	48.00	MF	NR	610	541	
1/30/2013	600	640	1827	1,789,194	314,080	48.00	NA	12.0	610	541	
2/13/2013	800	684	1864	1,894,598	NR	12.00	NR	NR	NR	NR	
2/26/2013	600	684	1883	1,905,916	327,383	10.82	11.0	16.0	610	541	
3/21/2013	800	684	1916	1,925,225	347,509	11.30	10.8	18.0	610	541	

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 ₂ O)	AS Exhaust Pressure (in. H ₂ O)	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	
1/4/2013	940	9777	644	17	9	16	ND	
1/30/2013	600	10054	658	16	9	19	ND	
2/13/2013	800	10788	665	NR	NR	NR	NR	
2/26/2013	600	10381	684	15	9	18	ND	
3/21/2013	800	10711	696	5	16	21	ND	

Notes:

NR: Not recorded.

NP: Not pumping.

ND: Not detected.

Attachment A - Table 4

DPE Well Casing Vacuum Data (in. H₂O)
 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
1/30/2013	55	125	125	115	100	100	40	75
2/26/2013	45	145	120	115	105	115	48	80
3/21/2013	37	148	127	125	98	120	49	80

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
DPE-1	4-Jan-13	42.7	NR	NR
DPE-1	30-Jan-13	43.4	26.0	18
DPE-1	13-Feb-13	64.8	NR	NR
DPE-1	25-Feb-13	10.8	36.0	20.35
DPE-1	21-Mar-13	10.6	37.0	18.2

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
DPE-2	4-Jan-13	48.1	NR	NR
DPE-2	30-Jan-13	9.4	25.0	19.5
DPE-2	13-Feb-13	25.7	NR	NR
DPE-2	25-Feb-13	5.8	29.0	20.5
DPE-2	21-Mar-13	8.2	26.0	19.7

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
DPE-3	1-Apr-13	21.7	NR	NR
DPE-3	30-Jan-13	29.0	38.0	19.5
DPE-3	13-Feb-13	50.4	NR	NR
DPE-3	25-Feb-13	27.4	44.0	20.2
DPE-3	21-Mar-13	6.9	39.0	19.3

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
DPE-4	4-Jan-13	30.4	NR	NR
DPE-4	30-Jan-13	25.0	35.0	19.7
DPE-4	13-Feb-13	46.7	NR	NR
DPE-4	25-Feb-13	12.6	40.0	20.1
DPE-4	21-Mar-13	3.2	36.0	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
DPE-5	4-Jan-13	9.1	NR	NR
DPE-5	30-Jan-13	4.6	50.0	19
DPE-5	13-Feb-13	5.8	NR	NR
DPE-5	25-Feb-13	2.1	59.0	18.8
DPE-5	21-Mar-13	0.6	46.0	19.8

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
DPE-6	4-Jan-13	9.7	NR	NR
DPE-6	30-Jan-13	2.3	37.0	18.8
DPE-6	13-Feb-13	2.7	NR	NR
DPE-6	25-Feb-13	1.0	45.0	18.2
DPE-6	21-Mar-13	0.0	39.0	19.4

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
DPE-7	4-Jan-13	5.6	NR	NR
DPE-7	30-Jan-13	0.8	40.0	18.8
DPE-7	13-Feb-13	0.5	NR	NR
DPE-7	25-Feb-13	0.3	46.0	18.6
DPE-7	21-Mar-13	0.3	39.0	19.3

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
DPE-8	4-Jan-13	7.5	NR	NR
DPE-8	30-Jan-13	2.6	57.0	17
DPE-8	13-Feb-13	3.3	NR	NR
DPE-8	25-Feb-13	1.4	61.0	17.6
DPE-8	21-Mar-13	0.0	56.0	18.5

* - 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
DPE-1	30-Jan-13	21.9	17.86	4.04	2.6	21.6	0.3
DPE-1	26-Feb-13	21.9	16.94	4.96	3.2	21.6	0.3
DPE-1	21-Mar-13	21.9	18.4	3.5	2.3	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
DPE-2	30-Jan-13	20.5	17.41	3.09	2.0	20.5	0
DPE-2	26-Feb-13	20.5	17.2	3.3	2.2	20.6	-0.1
DPE-2	21-Mar-13	20.5	17.33	3.17	2.1	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-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
DPE-3	30-Jan-13	17.1	18.33	-1.23	-0.8	17	0.1
DPE-3	26-Feb-13	17.1	18.14	-1.04	-0.7	17	0.1
DPE-3	21-Mar-13	17.1	17.78	-0.68	-0.4	17.6	-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-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
DPE-4	30-Jan-13	19.3	17.73	1.57	1.0	19.3	0
DPE-4	26-Feb-13	19.3	17.67	1.63	1.1	19.3	0
DPE-4	21-Mar-13	19.3	17.76	1.54	1.0	19.1	0.2

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
DPE-5	30-Jan-13	18.1	17.21	0.89	0.6	18	0.1
DPE-5	26-Feb-13	18.1	16.81	1.29	0.8	18.2	-0.1
DPE-5	21-Mar-13	18.1	17.48	0.62	0.4	18	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
DPE-6	30-Jan-13	19.5	16.63	2.87	1.9	19.5	0
DPE-6	26-Feb-13	19.5	16.59	2.91	1.9	19.3	0.2
DPE-6	21-Mar-13	19.5	16.61	2.89	1.9	19.6	-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-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
DPE-7	30-Jan-13	22.2	17.86	4.34	2.8	22.1	0.1
DPE-7	26-Feb-13	22.2	17.66	4.54	3.0	22.4	-0.2
DPE-7	21-Mar-13	22.2	18.03	4.17	2.7	22.4	-0.2

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
DPE-8	30-Jan-13	17.5	DRY	NA	NA	DRY	NA
DPE-8	26-Feb-13	17.5	DRY	NA	NA	DRY	NA
DPE-8	21-Mar-13	17.5	DRY	NA	NA	DRY	NA

Notes:

1. DPE-1 groundwater elevation data from 8/28/11 appears to be a data outlier.
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#1 Filter (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 Fittings for Water Leaks - MONTHLY	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
- Blower (16N4 TBNA 3 HP) - Inspect Hoses, Piping and Fittings for Leaks - MONTHLY	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
Solenoid 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#1 Filter (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 Fittings for Water Leaks - MONTHLY	Jan 6, 20	Feb 28	Mar 7, 18	Apr, 22	May, 19	Jun 15,	Jul 25	Aug 28	Sep 11	Oct 18	Nov 21	
- Blower (16N4 TBNA 3 HP) - Inspect Hoses, Piping and Fittings for Leaks - MONTHLY	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	
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#1 Filter (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 Fittings for Water Leaks - MONTHLY	Jan 20,27	Feb 16	Mar 16	Apr 17	May 17		July 19	Aug 23	Sept 26	Oct 26	DPE OFF	Dec 21
- Blower (16N4 TBNA 3 HP) - Inspect Hoses, Piping and Fittings for Leaks - MONTHLY	Jan 20,27	Feb 16	Mar 16	Apr 17	May 17		July 19	Aug 23	Sept 26	Oct 26	DPE OFF	Dec 21
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 - Table 7

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

Maintenance Item	Jan-13	Feb-13	Mar-13	Apr-13	May-13	Jun-13	Jul-13	Aug-13	Sep-13	Oct-13	Nov-13	Dec-13
DPE Pump Maintenance												
- Inspect Hoses, Piping and Fittings for Oil Leaks - MONTHLY	Jan 4, 9, 18, 30	Feb 12, 26	Mar 21	X	X	X	X	X	X	X	X	X
- Check Oil Level (level should show at middle of site glass) - MONTHLY	Jan 4, 9, 18, 30	Feb 12, 26	Mar 21	X	X	X	X	X	X	X	X	X
- Change Oil - MONTHLY	Jan 4, 9, 18, 30	Feb 26	Mar 21	X	X	X	X	X	X	X	X	X
- 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 30	Feb 26	Mar 21	X	X	X	X	X	X	X	X	X
- Check Sediment - MONTHLY	Jan 30	Feb 26	Mar 21	X	X	X	X	X	X	X	X	X
- Remove Sediment - AS NEEDED			Mar 21					X				X
- Replace MS#1 Filter (5 micron) - SEMI-ANNUALLY						X						X
- Replace MS#2 Filter (1 micron) - SEMI-ANNUALLY						X						X
- Transfer Pump (Moyno 34401 1 HP) - Inspect Hoses, Piping and Fittings	Jan 4, 9, 18, 30	Feb 12, 26	Mar 21	X	X	X	X	X	X	X	X	X
for Water Leaks - MONTHLY												
- Replace Transfer Pump Stator - SEMI-ANNUALLY						X						X
- Clean Discharge Flow Meter - SEMI-ANNUALLY						X						X
Air Stripper Maintenance												
- Clean Air Stripper - ANNUALLY OR AS NEEDED	Jan 30	Feb 26	Mar 21									X
- Clean Floats - QUARTERLY	Jan 30	Feb 26	Mar 21			X			X			X
- Discharge Pump (Meyers CT10 1 HP) - Inspect Hoses, Piping and Fittings for Water Leaks - MONTHLY	Jan 30	Feb 26	Mar 21	X	X	X	X	X	X	X	X	X
- Blower (16N4 TBNA 3 HP) - Inspect Hoses, Piping and Fittings for Leaks - MONTHLY	Jan 30	Feb 12, 26	Mar 21	X	X	X	X	X	X	X	X	X
Solonoid Valve Maintenance												
- Inspect - MONTHLY	Jan 4, 30	Feb 26	Mar 21	X	X	X	X	X	X	X	X	X
- Clean - AS NEEDED												
- Rebuild - AS NEEDED	Jan 4		Mar 21									

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 B

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: 11/4/13
 TIME: 940
 RECORDED BY: JEG

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): 42.9 #3
 DPE WELL VACUUM (IN. HG): 16.27
 DPE PUMP INLET VACUUM (IN. HG): 19.71
 DPE PUMP OUTLET PRESSURE (PSI): 0 -
 DPE PUMP OUTLET TEMP (DEG. F): 98
 MS PUMP WATER FLOW (GPM): (48)

TOTAL PANEL READINGS

DPE VACUUM PUMP (HRS): 23665
 MS PUMP (HRS): 1735
 MS VACUUM VALVE (HRS): 497
 AIR STRIPPER BLOWER (HRS): 9777
 AIR STRIPPER PUMP (HRS): 6444
 DPE AIR FLOW (SCF): 94374000
 MS PUMP WATER FLOW (GAL): 1523769
 SUMP PUMP WATER FLOW (GAL): 610

FIELD MEASUREMENTS

DPE WELL CASING VACUUM (MM HG): 10
 PRE-MANIFOLD VACUUM (IN. HG): 18
 DPE WELL (PRE-MS-1) VACUUM (IN. HG): 19
 POST-MS-1 VACUUM (IN. HG): 18
 POST-MS-2 VACUUM (IN. HG): 19
 DPE PUMP AIR FLOW (SCFM): 45
 DPE EXHAUST PID CONC. (PPM): 21.7
 DPE PUMP OUTLET PRESSURE (IN. H2O): 0.0
 DPE PUMP OUTLET TEMP (DEG. F): 115

MS PUMP WATER FLOWRATE (WHILE PUMPING) (GPM): Not working
 MS PUMP WATER PRESSURE (WHILE PUMPING) (PSI):
 MS PUMP FLOW TOTALIZER READING (GAL): 309790

AS EXHAUST PRESSURE (IN. H2O): 9.0
 AS DISCHARGE PUMP PRESSURE (WHILE PUMPING) (PSI): 16
 AS BLOWER PRESSURE (IN. H2O): 17
 AS EXHAUST PID (PPM): 0

ELEVATOR DRAIN TILE SUMP FLOW TOTALIZER (GAL):

STATIC WATER LEVELS

	Clean to Dirty Ranking	Well Depth below TOC (FT)	Depth to Water below TOC (FT)
MW-14	3	17.5	
MW-15	4	18	
MW-16	10	18	
MW-17	7	25	
MW-18	6	60	
MW-19	1	20	
MW-20	8	16.7	
DPE-1	15	21.9	
DPE-2	13	20.5	
DPE-3	14	17.1	
DPE-4	12	19.3	
DPE-5	9	18.1	
DPE-6	5	19.5	
DPE-7	2	22.2	
DPE-8	11	17.5	
Sump	1	7.74	

OPERATING WATER LEVELS

DPE-1	
DPE-2	
DPE-3	
DPE-4	
DPE-5	
DPE-6	
DPE-7	
DPE-8	

SUMP ROOM PID:

BASEMENT PID READINGS:

COMMENTS/MAINTENANCE:

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: 1/30/13
 TIME: 06:00
 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

#3
 DPE PUMP AIR FLOW (SCFM): 420
 DPE WELL VACUUM (IN. HG): 19.2
 DPE PUMP INLET VACUUM (IN. HG): 19.18
 DPE PUMP OUTLET PRESSURE (PSI): 0.03
 DPE PUMP OUTLET TEMP (DEG. F): 245
 MS PUMP WATER FLOW (GPM): 48

TOTAL PANEL READINGS

DPE VACUUM PUMP (HRS): 24138
 MS PUMP (HRS): 1827
 MS VACUUM VALVE (HRS): 640
 AIR STRIPPER BLOWER (HRS): 10054
 AIR STRIPPER PUMP (HRS): 658
 DPE AIR FLOW (SCF): 9573200
 MS PUMP WATER FLOW (GAL): 1789194
 SUMP PUMP WATER FLOW (GAL): 610

STATIC WATER LEVELS

	Clean to Dirty Ranking	Well Depth below TOC (FT)	Depth to Water below TOC (FT)
MW-14	3	17.5	13.42
MW-15	4	18	16.72
MW-16	10	18	14.46
MW-17	7	25	13.92
MW-18	6	60	14.25
MW-19	1	20	15.39
MW-20	8	16.7	14.09
DPE-1	15	21.9	17.86
DPE-2	13	20.5	17.41
DPE-3	14	17.1	18.33
DPE-4	12	19.3	17.73
DPE-5	9	18.1	17.21
DPE-6	5	19.5	16.63
DPE-7	2	22.2	17.86
DPE-8	11	17.5	Dry
Sump	1	7.74	7.48

FIELD MEASUREMENTS

DPE WELL CASING VACUUM (MM HG): 17.5
 PRE-MANIFOLD VACUUM (IN. HG): 17.5
 DPE WELL (PRE-MS-1) VACUUM (IN. HG): 17.5
 POST-MS-1 VACUUM (IN. HG): 17.5
 POST-MS-2 VACUUM (IN. HG): 18.5
 DPE PUMP AIR FLOW (SCFM): 45
 DPE EXHAUST PID CONC. (PPM): 222-29
 DPE PUMP OUTLET PRESSURE (IN. H2O): 0
 DPE PUMP OUTLET TEMP (DEG. F): 227

OPERATING WATER LEVELS

DPE-1	21.6
DPE-2	20.5
DPE-3	17.0
DPE-4	19.3
DPE-5	18.0
DPE-6	19.5
DPE-7	22.1
DPE-8	17.5

MS PUMP WATER FLOWRATE (WHILE PUMPING) (GPM): NA
 MS PUMP WATER PRESSURE (WHILE PUMPING) (PSI): 12
 MS PUMP FLOW TOTALIZER READING (GAL): 314080

SUMP ROOM PID: MD

BASEMENT PID READINGS: MD

AS EXHAUST PRESSURE (IN. H2O): 9
 AS DISCHARGE PUMP PRESSURE (WHILE PUMPING) (PSI): 14
 AS BLOWER PRESSURE (IN. H2O): 110
 AS EXHAUST PID (PPM): 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: 11/30/13
 TIME: 06:00
 RECORDED BY:

	PID READINGS	DPE EXHAUST FLOW RATE	DPE PUMP INLET VACUUM	WELL CASING VACUUMS
DPE-1	43.4	26	18	55
DPE-2	9.4	25	19.5	125
DPE-3	29	38	19.5	125
DPE-4	25	35	19.7	115
DPE-5	4.6	50	19	100
DPE-6	2.3	37	18.8	100
DPE-7	0.8	40	18.8	40
DPE-8	2.6	57	17	75

06:06 - 12:00
 - 4

0 - 29

AS - in 08:30
 AS - Eff 08:33

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: 2/13/13
TIME: 0800
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): 35.2 #2
 DPE WELL VACUUM (IN. HG): 18.99
 DPE PUMP INLET VACUUM (IN. HG): 22.0
 DPE PUMP OUTLET PRESSURE (PSI): 0
 DPE PUMP OUTLET TEMP (DEG. F): 18.2
 MS PUMP WATER FLOW (GPM): 12

TOTAL PANEL READINGS

DPE VACUUM PUMP (HRS): 24315
 MS PUMP (HRS): 1864
 MS VACUUM VALVE (HRS): 684
 AIR STRIPPER BLOWER (HRS): 10788
 AIR STRIPPER PUMP (HRS): 665
 DPE AIR FLOW (SCF): 96215000
 MS PUMP WATER FLOW (GAL): 1894598
 SUMP PUMP WATER FLOW (GAL): 610

STATIC WATER LEVELS

	Clean to Dirty Ranking	Well Depth below TOC (FT)	Depth to Water below TOC (FT)
MW-14	3	17.5	
MW-15	4	18	
MW-16	10	18	
MW-17	7	25	
MW-18	6	60	
MW-19	1	20	
MW-20	8	16.7	
DPE-1	15	21.9	
DPE-2	13	20.5	
DPE-3	14	17.1	
DPE-4	12	19.3	
DPE-5	9	18.1	
DPE-6	5	19.5	
DPE-7	2	22.2	
DPE-8	11	17.5	
Sump	1	7.74	

FIELD MEASUREMENTS

DPE WELL CASING VACUUM (MM HG):
 PRE-MANIFOLD VACUUM (IN. HG):
 DPE WELL (PRE-MS-1) VACUUM (IN. HG):
 POST-MS-1 VACUUM (IN. HG):
 POST-MS-2 VACUUM (IN. HG):
 DPE PUMP AIR FLOW (SCFM):
 DPE EXHAUST PID CONC. (PPM):
 DPE PUMP OUTLET PRESSURE (IN. H2O):
 DPE PUMP OUTLET TEMP (DEG. F):

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

AS EXHAUST PRESSURE (IN. H2O):
 AS DISCHARGE PUMP PRESSURE (WHILE PUMPING) (PSI):
 AS BLOWER PRESSURE (IN. H2O):
 AS EXHAUST PID (PPM):

OPERATING WATER LEVELS

DPE-1
 DPE-2
 DPE-3
 DPE-4
 DPE-5
 DPE-6
 DPE-7
 DPE-8

SUMP ROOM PID:

BASEMENT PID READINGS:

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: 2/13/13
TIME: _____
RECORDED BY: _____

	PID READINGS	DPE EXHAUST FLOW RATE	DPE PUMP INLET VACUUM	WELL CASING VACUUMS
DPE-1	8:30 / 10:30 64.8 / 24.5			
DPE-2	25.7 / 10.6			
DPE-3	50.4 / 27.8			
DPE-4	46.7 / 13.1			
DPE-5	5.8 / 1.4			
DPE-6	2.7 / 1.3			
DPE-7	0.9 / 0.2			
DPE-8	3.3 / 1.6			

MAINTENANCE CHECKLIST (Revised 4/13/10)

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

Date: _____

Field Representative: _____

**OBSERVATIONS AND/OR
DESCRIPTION OF MAINTENANCE**

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
- Clean Pump Inlet Opening - MONTHLY

Check Box

PERFORMED

Moisture Separator Maintenance

- Clean Floats - MONTHLY
- Check Sediment - MONTHLY
- Remove Sediment - MONTHLY
- Replace MS#1 Filter (5 micron) - If Pressure Drop Occurs
- Replace MS#2 Filter (1 micron) - If Pressure Drop Occurs
- Transfer Pump (Moyno 34401 1 HP) - Inspect Hoses, Piping and Fittings for Water Leaks - MONTHLY
- Replace Transfer Pump Stator - SEMI-ANNUALLY
- Clean Discharge Flow Meter - SEMI-ANNUALLY

* Replaced discharge pipe with
orig. equipment - raised LL Alarm/Hurd off
to change/adjust head of removal pump
* one plug/access on MS was
leaking - removed and repaired

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

--

Solenoid Valve Maintenance

- Inspect - MONTHLY
- Clean - AS NEEDED

MAINTENANCE CHECKLIST (Revised 4/13/10)

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

Date: 2/12/13 - "only sheet of the day" system not operating

Field Representative: JEG

**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
- Clean Pump Inlet Opening - MONTHLY

Check Box
NA
NA
NA
NA

Moisture Separator Maintenance

- Clean Floats - MONTHLY
- Check Sediment - MONTHLY
- Remove Sediment - MONTHLY
- Replace MS#1 Filter (5 micron) - If Pressure Drop Occurs
- Replace MS#2 Filter (1 micron) - If Pressure Drop Occurs
- Transfer Pump (Moyno 34401 1 HP) - Inspect Hoses, Piping and Fittings for Water Leaks - MONTHLY
- Replace Transfer Pump Stator - SEMI-ANNUALLY
- Clean Discharge Flow Meter - SEMI-ANNUALLY

NA
NA
NA
NA
NA
NA
✓
NA

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

NA
NA
NA
NA

Solenoid Valve Maintenance

- Inspect - MONTHLY
- Clean - AS NEEDED

NA
NA

Replaced Broken stator - discharge hose failed -
should be replaced with specified hose on 2/13/13.
Components inside electrical panel possible failure.
Batteries added to sense phone - never required before.
Programming re-set by flipping the breaker.
Dave - From Rochester plumbing and heating stopped
by to possibly replace pump - occurred to us
that - over powered pump necessary to overcome DPE

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: 2/26/13
TIME:
RECORDED BY:

06:00

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): 29.3
DPE WELL VACUUM (IN. HG): 19.7
DPE PUMP INLET VACUUM (IN. HG): 22
DPE PUMP OUTLET PRESSURE (PSI): 0.02
DPE PUMP OUTLET TEMP (DEG. F): 20.5
MS PUMP WATER FLOW (GPM): 10.82

#2

TOTAL PANEL READINGS

DPE VACUUM PUMP (HRS): 24625
MS PUMP (HRS): 1883
MS VACUUM VALVE (HRS): 684
AIR STRIPPER BLOWER (HRS): 10381
AIR STRIPPER PUMP (HRS): 677
DPE AIR FLOW (SCF): 92092000
MS PUMP WATER FLOW (GAL): 1905916
SUMP PUMP WATER FLOW (GAL): 610

STATIC WATER LEVELS

	Clean to Dirty Ranking	Well Depth below TOC (FT)	Depth to Water below TOC (FT)
MW-14	3	17.5	13.41
MW-15	4	18	15.96
MW-16	10	18	14.04
MW-17	7	25	14.28
MW-18	6	60	14.84
MW-19	1	20	15.78
MW-20	8	16.7	14.26
DPE-1	15	21.9	16.94
DPE-2	13	20.5	17.20
DPE-3	14	17.1	18.14
DPE-4	12	19.3	17.69
DPE-5	9	18.1	16.81
DPE-6	5	19.5	16.59
DPE-7	2	22.2	17.66
DPE-8	11	17.5	Dry 17.5
Sump	1	7.74	7.70

FIELD MEASUREMENTS

DPE WELL CASING VACUUM (MM HG): 17.5
PRE-MANIFOLD VACUUM (IN. HG): 17.9
DPE WELL (PRE-MS-1) VACUUM (IN. HG): 21.0
POST-MS-1 VACUUM (IN. HG): 19.0
POST-MS-2 VACUUM (IN. HG): 21
DPE PUMP AIR FLOW (SCFM): 30
DPE EXHAUST PID CONC. (PPM): 5.8
DPE PUMP OUTLET PRESSURE (IN. H2O): 0
DPE PUMP OUTLET TEMP (DEG. F): 180

OPERATING WATER LEVELS (541)

DPE-1	21.6
DPE-2	20.6
DPE-3	17.0
DPE-4	19.3
DPE-5	18.2
DPE-6	18.3
DPE-7	22.4
DPE-8	17.5

MS PUMP WATER FLOWRATE (WHILE PUMPING) (GPM): 11
MS PUMP WATER PRESSURE (WHILE PUMPING) (PSI): 16
MS PUMP FLOW TOTALIZER READING (GAL): 327393

SUMP ROOM PID: ND

BASEMENT PID READINGS: ND

AS EXHAUST PRESSURE (IN. H2O): 9
AS DISCHARGE PUMP PRESSURE (WHILE PUMPING) (PSI): 18
AS BLOWER PRESSURE (IN. H2O): 15
AS EXHAUST PID (PPM): 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: _____
TIME: _____
RECORDED BY: _____

	PID READINGS	DPE EXHAUST FLOW RATE	DPE PUMP INLET VACUUM	WELL CASING VACUUMS
DPE-1	10.8	36	20.35	45
DPE-2	5.8	29	20.50	145
DPE-3	27.4	44	20.2	120
DPE-4	12.6	40	20.1	115
DPE-5	2.1	59	18.8	105
DPE-6	1.0	45	18.2	115
DPE-7	0.3	46	18.6	48
DPE-8	1.4	61	17.6	80

CAI-
07:00 (FD)

14:30 started CAI

101 }
100 } - 100 CAI GAS
100 }
100 }
GL

2/25/13
AS IN 1550
AS OUT 5555

Need
plug moisture sep -
6" nipple

CherNe industry

MAINTENANCE CHECKLIST (Revised 4/13/10)

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

Date: 2/26/13

Field Representative: _____

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
- Clean Pump Inlet Opening - MONTHLY

Check Box
✓
✓
✓
✓

changed - looked like oil was old
w/ shavings

Moisture Separator Maintenance

- Clean Floats - MONTHLY
- Check Sediment - MONTHLY
- Remove Sediment - MONTHLY
- Replace MS#1 Filter (5 micron) - If Pressure Drop Occurs
- Replace MS#2 Filter (1 micron) - If Pressure Drop Occurs
- Transfer Pump (Moyno 34401 1 HP) - Inspect Hoses, Piping and Fittings for Water Leaks - MONTHLY
- Replace Transfer Pump Stator - SEMI-ANNUALLY
- Clean Discharge Flow Meter - SEMI-ANNUALLY

NA
NA
NA
NA
NA
NA
NA
NA

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

NA
NA
NA
NA

Solenoid Valve Maintenance

- Inspect - MONTHLY
- Clean - AS NEEDED

NA
NA

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: 3/21/13
 TIME: 0800
 RECORDED BY: JEG

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): 33.6
 DPE WELL VACUUM (IN. HG): 19.85
 DPE PUMP INLET VACUUM (IN. HG): 20.87
 DPE PUMP OUTLET PRESSURE (PSI): 02
 DPE PUMP OUTLET TEMP (DEG. F): 230
 MS PUMP WATER FLOW (GPM): 11.3

TOTAL PANEL READINGS

DPE VACUUM PUMP (HRS): 25176
 MS PUMP (HRS): 1916
 MS VACUUM VALVE (HRS): 684
 AIR STRIPPER BLOWER (HRS): 10711
 AIR STRIPPER PUMP (HRS): 696
 DPE AIR FLOW (SCF): 9861700
 MS PUMP WATER FLOW (GAL): 1925225
 SUMP PUMP WATER FLOW (GAL): 610

STATIC WATER LEVELS

	Clean to Dirty Ranking	Well Depth below TOC (FT)	Depth to Water below TOC (FT)
MW-14	3	17.5	13.47
MW-15	4	18	16.79
MW-16	10	18	14.69
MW-17	7	25	14.30
MW-18	6	60	14.83
MW-19	1	20	15.20
MW-20	8	16.7	73.80
DPE-1	15	21.9	18.40
DPE-2	13	20.5	17.33
DPE-3	14	17.1	17.70
DPE-4	12	19.3	17.76
DPE-5	9	18.1	17.48
DPE-6	5	19.5	16.61
DPE-7	2	22.2	18.03
DPE-8	11	17.5	Dry 17.6
Sump	1	7.74	7.18

FIELD MEASUREMENTS

DPE WELL CASING VACUUM (MM HG): 18.0
 PRE-MANIFOLD VACUUM (IN. HG): 18.0
 DPE WELL (PRE-MS-1) VACUUM (IN. HG): (21) *Fall*
 POST-MS-1 VACUUM (IN. HG): 18.5
 POST-MS-2 VACUUM (IN. HG): 20.0
 DPE PUMP AIR FLOW (SCFM): 35
 DPE EXHAUST PID CONC. (PPM): 70.6
 DPE PUMP OUTLET PRESSURE (IN. H2O): 0
 DPE PUMP OUTLET TEMP (DEG. F): 200

OPERATING WATER LEVELS

DPE-1	21.9
DPE-2	20.0
DPE-3	17.6
DPE-4	19.1
DPE-5	18.0
DPE-6	19.6
DPE-7	22.4
DPE-8	17.6 Dry

MS PUMP WATER FLOWRATE (WHILE PUMPING) (GPM): 10.8
 MS PUMP WATER PRESSURE (WHILE PUMPING) (PSI): 18
 MS PUMP FLOW TOTALIZER READING (GAL): 347509

SUMP ROOM PID: ND

BASEMENT PID READINGS: ND

AS EXHAUST PRESSURE (IN. H2O): 16
 AS DISCHARGE PUMP PRESSURE (WHILE PUMPING) (PSI): 21
 AS BLOWER PRESSURE (IN. H2O): 5
 AS EXHAUST PID (PPM): 0.0

COMMENTS/MAINTENANCE:

Sump 541

MAINTENANCE CHECKLIST (Revised 4/13/10)

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

Date: 3/21/13

Field Representative: _____

**OBSERVATIONS AND/OR
DESCRIPTION OF MAINTENANCE**

DPE Pump Maintenance	Check Box	<u>PERFORMED</u>
- Inspect Hoses, Piping and Fittings for Oil Leaks - MONTHLY	✓	_____
- Check Oil Level (level should show at middle of site glass) - MONTHLY	✓	_____
- Change Oil - MONTHLY	✓	_____
- Clean Pump Inlet Opening - MONTHLY	✓	_____
Moisture Separator Maintenance		_____
- Clean Floats - MONTHLY	✓	_____
- Check Sediment - MONTHLY	NA	_____
- 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	NA	_____
- Replace Transfer Pump Stator - SEMI-ANNUALLY	NA	_____
- Clean Discharge Flow Meter - SEMI-ANNUALLY	NA	_____
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	_____

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: 3/21/13
TIME: 0545
RECORDED BY: JEC

	PID READINGS	DPE EXHAUST FLOW RATE	DPE PUMP INLET VACUUM	WELL CASING VACUUMS
DPE-1	10.6	37	18.2	37
DPE-2	8.2	26	19.7	148
DPE-3	6.9	39	19.9	127
DPE-4	3.2	36	20	125
DPE-5	0.6	46	19.8	98
DPE-6	0.0	39	19.4	120
DPE-7	0.3	39	19.3	49
DPE-8	0.0	56	18.5	80

CAI 100 150.6 -
99, 99, 99, 100

05:30 JEC

CAN Start @ 06:00 -30

AS - IN 10:00
AS - EF 10:05

Field Information Data Sheet

**Landmark
Environmental, LLC**

Client Name: City of Rochester – Second Quarter Sampling
 Project Name: CRC Project Number: CRC-13
 Location: Multiple Location Date: February 26, 2013
 Station: _____ Sample time: 04:30

Multiple Sampling Log:		Time/ Volume	Temp °C	Cond @ 25	pH	Eh	D.O.	
Location:								
DPE-1:	/	4:30	17.1	1321	7.09	-6	5.1	
DPE-2:	/	5:00	16.4	1062	7.10	-62	4.2	
DPE-3:	/	5:30	18.3	1114	7.11	-51	3.9	
DPE-4:	/	6:00	18.4	951	7.62	-46	4.4	
DPE-5:	/	6:30	19.2	1801	7.21	-44	4.6	
DPE-6:	/	7:00	17.6	1726	6.91	-40	5.1	
DPE-7:	/	7:30	18.4	1500	7.08	-49	3.2	
DPE-8:								
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.

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: February 25, 2013
 Station: _____ Sample time: 16:20

Casing diameter:	2"	Time/ Volume	Temp °C	Cond @ 25	pH	Eh	D.O.	Turb. NTU
Total well depth:	17.5							
Static water level:	4.09		19.2	1324	7.17	-11.6	4.4	/
Water depth ¹ :	.6							
Well volume (gal):	/							
Purge method:	/							
Sample Method:	/							
Start time:	/							
Stop time:	/							
Duration (min.):	/	Odor:						
Rate, gpm:		Purge appearance:	cloudy					
Volume purged:		Sample appearance:	cloudy					
Duplicate collected?		Comments:	0.5 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-15 Date: February 25, 2013
 Station: _____ Sample time: 16:50

Casing diameter:	2"	Time/ Volume	Temp °C	Cond @ 25	pH	Eh	D.O.	Turb. NTU
Total well depth:	18							
Static water level:	15.99		20.7	1416	7.4	-23	1.46	
Water depth ¹ :	2.04							
Well volume (gal):	.3							
Purge method:	2" sub							
Sample Method:	/							
Start time:	/							
Stop time:								
Duration (min.):	/	Odor:						
Rate, gpm:		Purge appearance:	cloudy					
Volume purged:	/	Sample appearance:	cloudy					
Duplicate collected?		Comments:	.3 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: February 25, 2013

Station: _____ Sample time: 19:00

Casing diameter:	2"	Time/ Volume	Temp °C	Cond @ 25	pH	Eh	D.O.	Turb. NTU
Total well depth:	18							
Static water level:	14.04		19.4	1338	7.48	-27	4.7	
Water depth ¹ :	4							
Well volume (gal):	6							
Purge method:	2" sub							
Sample Method:	Boiler							
Start time:								
Stop time:								
Duration (min.):		Odor:						
Rate, gpm:		Purge appearance:	cloudy					
Volume purged:		Sample appearance:	cloudy					
Duplicate collected?		Comments:	5 gallon jug					
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: February 25, 2013
 Station: 25 Sample time: 17:50

Casing diameter:	2"	Time/ Volume	Temp °C	Cond @ 25	pH	Eh	D.O.	Turb. NTU
Total well depth:	25							
Static water level:	14.28		19.2	1361	7.32	-19.3	1.6	
Water depth ¹ :	10.72							
Well volume (gal):	1.74							
Purge method:	2" sub							
Sample Method:	del							
Start time:								
Stop time:								
Duration (min.):		Odor:						
Rate, gpm:		Purge appearance:	cloudy					
Volume purged:		Sample appearance:	clear					
Duplicate collected?		Comments:	2 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-18 Date: February 25, 2013
 Station: _____ Sample time: 17:30

Casing diameter:	2"	Time/ Volume	Temp °C	Cond @ 25	pH	Eh	D.O.	Turb. NTU
Total well depth:	60							
Static water level:	14.94		19.9	2076	7.11	-0.5	0.5	
Water depth ¹ :	45.16							
Well volume (gal):	7.3							
Purge method:	2" sub							
Sample Method:	dec							
Start time:	 							
Stop time:	 							
Duration (min.):	 	Odor:	slight					
Rate, gpm:	 	Purge appearance:	cloudy					
Volume purged:	 	Sample appearance:	cloudy					
Duplicate collected?	 	Comments:	21 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-19 Date: February 25, 2013
 Station: _____ Sample time: 16:00

Casing diameter:	2"	Time/ Volume	Temp °C	Cond @ 25	pH	Eh	D.O.	Turb. NTU
Total well depth:	20							
Static water level:	15.70		17.9	6006	7.15	-10.3	2.10	
Water depth ¹ :	4.22							
Well volume (gal):	0.6							
Purge method:	2" sub							
Sample Method:								
Start time:								
Stop time:								
Duration (min.):		Odor:						
Rate, gpm:		Purge appearance:	cloudy					
Volume purged:		Sample appearance:	cloudy					
Duplicate collected?		Comments:	.5 yellow 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:								

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: February 25, 2013

Station: _____ Sample time: 18:30

Casing diameter:	2"	Time/ Volume	Temp °C	Cond @ 25	pH	Eh	D.O.	Turb. NTU
Total well depth:	16.7							
Static water level:	14.26		18.9	5812	7.04	-4.2	1.3	
Water depth ¹ :	2.44							
Well volume (gal):	.3							
Purge method:	2" sub							
Sample Method:	 							
Start time:	 							
Stop time:	 							
Duration (min.):	 	Odor:						
Rate, gpm:	 	Purge appearance:	cloudy					
Volume purged:		Sample appearance:	cloudy					
Duplicate collected?		Comments:	.3 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.

February 06, 2013

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

RE: Project: CRC City of Rochester
Pace Project No.: 10218865

Dear Mr. Skramstad:

Enclosed are the analytical results for sample(s) received by the laboratory on January 30, 2013. 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@pacelabs.com
Project Manager

Enclosures



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: CRC City of Rochester

Pace Project No.: 10218865

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

REPORT OF LABORATORY ANALYSIS

Page 2 of 11

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SAMPLE SUMMARY

Project: CRC City of Rochester

Pace Project No.: 10218865

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10218865001	DPE-Exhaust-0531	Air	01/30/13 12:00	01/30/13 16:15

REPORT OF LABORATORY ANALYSIS

SAMPLE ANALYTE COUNT

Project: CRC City of Rochester

Pace Project No.: 10218865

Lab ID	Sample ID	Method	Analysts	Analytes Reported
10218865001	DPE-Exhaust-0531	TO-15	CJR	61

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: CRC City of Rochester

Pace Project No.: 10218865

Sample: DPE-Exhaust-0531		Lab ID: 10218865001	Collected: 01/30/13 12:00	Received: 01/30/13 16:15	Matrix: Air			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR		Analytical Method: TO-15						
Acetone	ND	ug/m3	2770	5763.07		02/05/13 05:29	67-64-1	
Benzene	ND	ug/m3	1870	5763.07		02/05/13 05:29	71-43-2	
Benzyl chloride	ND	ug/m3	6050	5763.07		02/05/13 05:29	100-44-7	
Bromodichloromethane	ND	ug/m3	7840	5763.07		02/05/13 05:29	75-27-4	
Bromoform	ND	ug/m3	12100	5763.07		02/05/13 05:29	75-25-2	
Bromomethane	ND	ug/m3	4550	5763.07		02/05/13 05:29	74-83-9	
1,3-Butadiene	ND	ug/m3	2590	5763.07		02/05/13 05:29	106-99-0	
2-Butanone (MEK)	ND	ug/m3	3460	5763.07		02/05/13 05:29	78-93-3	
Carbon disulfide	ND	ug/m3	3630	5763.07		02/05/13 05:29	75-15-0	
Carbon tetrachloride	ND	ug/m3	3690	5763.07		02/05/13 05:29	56-23-5	
Chlorobenzene	ND	ug/m3	5420	5763.07		02/05/13 05:29	108-90-7	
Chloroethane	ND	ug/m3	3110	5763.07		02/05/13 05:29	75-00-3	
Chloroform	ND	ug/m3	5710	5763.07		02/05/13 05:29	67-66-3	
Chloromethane	ND	ug/m3	2420	5763.07		02/05/13 05:29	74-87-3	
Cyclohexane	ND	ug/m3	4030	5763.07		02/05/13 05:29	110-82-7	
Dibromochloromethane	ND	ug/m3	9970	5763.07		02/05/13 05:29	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/m3	8990	5763.07		02/05/13 05:29	106-93-4	
1,2-Dichlorobenzene	ND	ug/m3	7030	5763.07		02/05/13 05:29	95-50-1	
1,3-Dichlorobenzene	ND	ug/m3	7030	5763.07		02/05/13 05:29	541-73-1	
1,4-Dichlorobenzene	ND	ug/m3	7030	5763.07		02/05/13 05:29	106-46-7	
Dichlorodifluoromethane	ND	ug/m3	5820	5763.07		02/05/13 05:29	75-71-8	
1,1-Dichloroethane	ND	ug/m3	4730	5763.07		02/05/13 05:29	75-34-3	
1,2-Dichloroethane	ND	ug/m3	2360	5763.07		02/05/13 05:29	107-06-2	
1,1-Dichloroethene	ND	ug/m3	4670	5763.07		02/05/13 05:29	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	4670	5763.07		02/05/13 05:29	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	4670	5763.07		02/05/13 05:29	156-60-5	
1,2-Dichloropropane	ND	ug/m3	5420	5763.07		02/05/13 05:29	78-87-5	
cis-1,3-Dichloropropene	ND	ug/m3	5300	5763.07		02/05/13 05:29	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/m3	5300	5763.07		02/05/13 05:29	10061-02-6	
Dichlorotetrafluoroethane	ND	ug/m3	8180	5763.07		02/05/13 05:29	76-14-2	
Ethanol	ND	ug/m3	2190	5763.07		02/05/13 05:29	64-17-5	
Ethyl acetate	ND	ug/m3	4210	5763.07		02/05/13 05:29	141-78-6	
Ethylbenzene	ND	ug/m3	5070	5763.07		02/05/13 05:29	100-41-4	
4-Ethyltoluene	ND	ug/m3	5760	5763.07		02/05/13 05:29	622-96-8	
n-Heptane	ND	ug/m3	4780	5763.07		02/05/13 05:29	142-82-5	
Hexachloro-1,3-butadiene	ND	ug/m3	12700	5763.07		02/05/13 05:29	87-68-3	
n-Hexane	ND	ug/m3	4150	5763.07		02/05/13 05:29	110-54-3	
2-Hexanone	ND	ug/m3	4780	5763.07		02/05/13 05:29	591-78-6	
Methylene Chloride	ND	ug/m3	4090	5763.07		02/05/13 05:29	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/m3	4780	5763.07		02/05/13 05:29	108-10-1	
Methyl-tert-butyl ether	ND	ug/m3	4210	5763.07		02/05/13 05:29	1634-04-4	
Naphthalene	ND	ug/m3	6170	5763.07		02/05/13 05:29	91-20-3	
2-Propanol	ND	ug/m3	2880	5763.07		02/05/13 05:29	67-63-0	
Propylene	ND	ug/m3	2020	5763.07		02/05/13 05:29	115-07-1	
Styrene	ND	ug/m3	5010	5763.07		02/05/13 05:29	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/m3	4020	5763.07		02/05/13 05:29	79-34-5	
Tetrachloroethene	348000	ug/m3	3970	5763.07		02/05/13 05:29	127-18-4	

Date: 02/06/2013 11:13 AM

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: CRC City of Rochester

Pace Project No.: 10218865

Sample: DPE-Exhaust-0531		Lab ID: 10218865001	Collected: 01/30/13 12:00	Received: 01/30/13 16:15	Matrix: Air			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR		Analytical Method: TO-15						
Tetrahydrofuran	ND	ug/m3	3460	5763.07		02/05/13 05:29	109-99-9	
Toluene	ND	ug/m3	4440	5763.07		02/05/13 05:29	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/m3	8700	5763.07		02/05/13 05:29	120-82-1	
1,1,1-Trichloroethane	ND	ug/m3	6400	5763.07		02/05/13 05:29	71-55-6	
1,1,2-Trichloroethane	ND	ug/m3	3170	5763.07		02/05/13 05:29	79-00-5	
Trichloroethene	ND	ug/m3	3170	5763.07		02/05/13 05:29	79-01-6	
Trichlorofluoromethane	ND	ug/m3	6570	5763.07		02/05/13 05:29	75-69-4	
1,1,2-Trichlorotrifluoroethane	127000	ug/m3	9220	5763.07		02/05/13 05:29	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/m3	5760	5763.07		02/05/13 05:29	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/m3	5760	5763.07		02/05/13 05:29	108-67-8	
Vinyl acetate	ND	ug/m3	4130	5763.07		02/05/13 05:29	108-05-4	
Vinyl chloride	ND	ug/m3	1500	5763.07		02/05/13 05:29	75-01-4	
m&p-Xylene	ND	ug/m3	10100	5763.07		02/05/13 05:29	179601-23-1	
o-Xylene	ND	ug/m3	5070	5763.07		02/05/13 05:29	95-47-6	

QUALITY CONTROL DATA

Project: CRC City of Rochester
Pace Project No.: 10218865

QC Batch: AIR/16715 Analysis Method: TO-15
QC Batch Method: TO-15 Analysis Description: TO15 MSV AIR Low Level
Associated Lab Samples: 10218865001

METHOD BLANK: 1372400 Matrix: Air
Associated Lab Samples: 10218865001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/m3	ND	1.1	02/04/13 18:09	
1,1,2,2-Tetrachloroethane	ug/m3	ND	0.70	02/04/13 18:09	
1,1,2-Trichloroethane	ug/m3	ND	0.55	02/04/13 18:09	
1,1,2-Trichlorotrifluoroethane	ug/m3	ND	1.6	02/04/13 18:09	
1,1-Dichloroethane	ug/m3	ND	0.82	02/04/13 18:09	
1,1-Dichloroethene	ug/m3	ND	0.81	02/04/13 18:09	
1,2,4-Trichlorobenzene	ug/m3	ND	1.5	02/04/13 18:09	
1,2,4-Trimethylbenzene	ug/m3	ND	1.0	02/04/13 18:09	
1,2-Dibromoethane (EDB)	ug/m3	ND	1.6	02/04/13 18:09	
1,2-Dichlorobenzene	ug/m3	ND	1.2	02/04/13 18:09	
1,2-Dichloroethane	ug/m3	ND	0.41	02/04/13 18:09	
1,2-Dichloropropane	ug/m3	ND	0.94	02/04/13 18:09	
1,3,5-Trimethylbenzene	ug/m3	ND	1.0	02/04/13 18:09	
1,3-Butadiene	ug/m3	ND	0.45	02/04/13 18:09	
1,3-Dichlorobenzene	ug/m3	ND	1.2	02/04/13 18:09	
1,4-Dichlorobenzene	ug/m3	ND	1.2	02/04/13 18:09	
2-Butanone (MEK)	ug/m3	ND	0.60	02/04/13 18:09	
2-Hexanone	ug/m3	ND	0.83	02/04/13 18:09	
2-Propanol	ug/m3	ND	0.50	02/04/13 18:09	
4-Ethyltoluene	ug/m3	ND	1.0	02/04/13 18:09	
4-Methyl-2-pentanone (MIBK)	ug/m3	ND	0.83	02/04/13 18:09	
Acetone	ug/m3	ND	0.48	02/04/13 18:09	
Benzene	ug/m3	ND	0.32	02/04/13 18:09	
Benzyl chloride	ug/m3	ND	1.0	02/04/13 18:09	
Bromodichloromethane	ug/m3	ND	1.4	02/04/13 18:09	
Bromoform	ug/m3	ND	2.1	02/04/13 18:09	
Bromomethane	ug/m3	ND	0.79	02/04/13 18:09	
Carbon disulfide	ug/m3	ND	0.63	02/04/13 18:09	
Carbon tetrachloride	ug/m3	ND	0.64	02/04/13 18:09	
Chlorobenzene	ug/m3	ND	0.94	02/04/13 18:09	
Chloroethane	ug/m3	ND	0.54	02/04/13 18:09	
Chloroform	ug/m3	ND	0.99	02/04/13 18:09	
Chloromethane	ug/m3	ND	0.42	02/04/13 18:09	
cis-1,2-Dichloroethene	ug/m3	ND	0.81	02/04/13 18:09	
cis-1,3-Dichloropropene	ug/m3	ND	0.92	02/04/13 18:09	
Cyclohexane	ug/m3	ND	0.70	02/04/13 18:09	
Dibromochloromethane	ug/m3	ND	1.7	02/04/13 18:09	
Dichlorodifluoromethane	ug/m3	ND	1.0	02/04/13 18:09	
Dichlorotetrafluoroethane	ug/m3	ND	1.4	02/04/13 18:09	
Ethanol	ug/m3	ND	0.38	02/04/13 18:09	
Ethyl acetate	ug/m3	ND	0.73	02/04/13 18:09	
Ethylbenzene	ug/m3	ND	0.88	02/04/13 18:09	
Hexachloro-1,3-butadiene	ug/m3	ND	2.2	02/04/13 18:09	

Date: 02/06/2013 11:13 AM

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: CRC City of Rochester
Pace Project No.: 10218865

METHOD BLANK: 1372400 Matrix: Air

Associated Lab Samples: 10218865001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
m&p-Xylene	ug/m3	ND	1.8	02/04/13 18:09	
Methyl-tert-butyl ether	ug/m3	ND	0.73	02/04/13 18:09	
Methylene Chloride	ug/m3	ND	0.71	02/04/13 18:09	
n-Heptane	ug/m3	ND	0.83	02/04/13 18:09	
n-Hexane	ug/m3	ND	0.72	02/04/13 18:09	
Naphthalene	ug/m3	1.8	1.1	02/04/13 18:09	
o-Xylene	ug/m3	ND	0.88	02/04/13 18:09	
Propylene	ug/m3	ND	0.35	02/04/13 18:09	
Styrene	ug/m3	ND	0.87	02/04/13 18:09	
Tetrachloroethene	ug/m3	ND	0.69	02/04/13 18:09	
Tetrahydrofuran	ug/m3	ND	0.60	02/04/13 18:09	
Toluene	ug/m3	ND	0.77	02/04/13 18:09	
trans-1,2-Dichloroethene	ug/m3	ND	0.81	02/04/13 18:09	
trans-1,3-Dichloropropene	ug/m3	ND	0.92	02/04/13 18:09	
Trichloroethene	ug/m3	ND	0.55	02/04/13 18:09	
Trichlorofluoromethane	ug/m3	ND	1.1	02/04/13 18:09	
Vinyl acetate	ug/m3	ND	0.72	02/04/13 18:09	
Vinyl chloride	ug/m3	ND	0.26	02/04/13 18:09	

LABORATORY CONTROL SAMPLE: 1372401

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/m3	55.5	57.2	103	69-131	
1,1,2,2-Tetrachloroethane	ug/m3	69.8	81.3	116	66-135	
1,1,2-Trichloroethane	ug/m3	55.5	60.8	110	68-132	
1,1,2-Trichlorotrifluoroethane	ug/m3	77.9	79.0	101	65-130	
1,1-Dichloroethane	ug/m3	41.2	42.1	102	66-131	
1,1-Dichloroethene	ug/m3	40.3	40.7	101	64-136	
1,2,4-Trichlorobenzene	ug/m3	75.5	67.1	89	30-150	
1,2,4-Trimethylbenzene	ug/m3	50	54.1	108	71-135	
1,2-Dibromoethane (EDB)	ug/m3	78.1	84.2	108	72-132	
1,2-Dichlorobenzene	ug/m3	61.2	63.4	104	68-148	
1,2-Dichloroethane	ug/m3	41.2	44.0	107	66-136	
1,2-Dichloropropane	ug/m3	47	47.8	102	68-133	
1,3,5-Trimethylbenzene	ug/m3	50	53.5	107	69-136	
1,3-Butadiene	ug/m3	22.5	21.4	95	69-134	
1,3-Dichlorobenzene	ug/m3	61.2	62.6	102	70-134	
1,4-Dichlorobenzene	ug/m3	61.2	63.4	104	66-134	
2-Butanone (MEK)	ug/m3	30	27.8	93	69-141	
2-Hexanone	ug/m3	41.7	46.2	111	74-132	
2-Propanol	ug/m3	25	26.7	107	64-139	
4-Ethyltoluene	ug/m3	50	53.7	107	71-134	
4-Methyl-2-pentanone (MIBK)	ug/m3	41.7	45.2	108	74-131	
Acetone	ug/m3	24.2	26.4	109	62-142	
Benzene	ug/m3	32.5	32.9	101	72-136	

Date: 02/06/2013 11:13 AM

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: CRC City of Rochester

Pace Project No.: 10218865

LABORATORY CONTROL SAMPLE: 1372401

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Benzyl chloride	ug/m3	52.5	55.3	105	70-134	
Bromodichloromethane	ug/m3	68.2	74.0	109	69-135	
Bromoform	ug/m3	105	110	104	72-133	
Bromomethane	ug/m3	39.5	38.2	97	65-125	
Carbon disulfide	ug/m3	31.7	28.9	91	68-127	
Carbon tetrachloride	ug/m3	64	66.7	104	64-133	
Chlorobenzene	ug/m3	46.8	50.8	108	65-135	
Chloroethane	ug/m3	26.8	25.4	95	63-129	
Chloroform	ug/m3	49.7	49.8	100	66-129	
Chloromethane	ug/m3	21	20.6	98	57-135	
cis-1,2-Dichloroethene	ug/m3	40.3	42.5	105	73-135	
cis-1,3-Dichloropropene	ug/m3	46.2	49.7	108	75-137	
Cyclohexane	ug/m3	35	37.8	108	73-139	
Dibromochloromethane	ug/m3	86.6	91.9	106	73-130	
Dichlorodifluoromethane	ug/m3	50.3	48.8	97	64-131	
Dichlorotetrafluoroethane	ug/m3	71.1	70.1	99	64-131	
Ethanol	ug/m3	19.2	16.8	88	62-134	
Ethyl acetate	ug/m3	36.6	40.0	109	73-136	
Ethylbenzene	ug/m3	44.2	48.3	109	74-136	
Hexachloro-1,3-butadiene	ug/m3	108	113	104	30-150	
m&p-Xylene	ug/m3	44.2	48.1	109	72-135	
Methyl-tert-butyl ether	ug/m3	36.7	38.8	106	71-134	
Methylene Chloride	ug/m3	35.3	32.4	92	59-140	
n-Heptane	ug/m3	41.7	45.0	108	73-136	
n-Hexane	ug/m3	35.8	35.4	99	67-136	
Naphthalene	ug/m3	53.3	53.4	100	30-150	P8
o-Xylene	ug/m3	44.2	48.3	109	74-135	
Propylene	ug/m3	17.5	18.0	103	66-138	
Styrene	ug/m3	43.3	46.0	106	73-135	
Tetrachloroethene	ug/m3	69	79.2	115	66-135	
Tetrahydrofuran	ug/m3	30	36.2	121	73-130	
Toluene	ug/m3	38.3	40.0	104	71-134	
trans-1,2-Dichloroethene	ug/m3	40.3	39.7	98	68-129	
trans-1,3-Dichloropropene	ug/m3	46.2	49.8	108	75-129	
Trichloroethene	ug/m3	54.6	59.0	108	68-134	
Trichlorofluoromethane	ug/m3	57.1	57.4	101	61-134	
Vinyl acetate	ug/m3	35.8	39.3	110	70-139	
Vinyl chloride	ug/m3	26	25.4	98	64-134	

QUALIFIERS

Project: CRC City of Rochester

Pace Project No.: 10218865

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: 10218865001

[1] This result is reported from a serial dilution

[2] The Total Hydrocarbon (THC) pattern occurred in the second half of the chromatogram (after toluene).

ANALYTE QUALIFIERS

P8 Analyte was detected in the method blank. All associated samples had concentrations of at least ten times greater than the blank or were below the reporting limit.

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: CRC City of Rochester

Pace Project No.: 10218865

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10218865001	DPE-Exhaust-0531	TO-15	AIR/16715		

Pace Analytical Services, Inc.

TENTATIVELY IDENTIFIED COMPOUNDS

Client Name:
Lab Smp Id: 10218865001
Operator : CJR
Sample Location:
Sample Matrix: AIR
Analysis Type: VOA
Inj Date: 05-FEB-2013 05:29

Client SDG: 020413.b
Sample Date:
Sample Point:
Date Received:
Level: LOW

Number TICs found: 10

CONCENTRATION UNITS:
(ug/L or ug/KG) ppbv

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	Unknown	2.503	2300	J
2.	Unknown	2.810	19900	J
3.	Unknown	3.692	824	J
4.	Unknown	4.189	2220	J
5.	Unknown	5.255	10000	J
6.	Unknown	5.513	836	J
7.	Unknown	5.856	623	J
8.	Unknown	6.114	1330	J
9.	Unknown	7.023	272	J
10.	Unknown	11.514	794	J

Pace Analytical Services, Inc.

TO15 Analysis (UNIX)

Data file : \\192.168.10.12\chem\10airD.i\020413.b\03543.d
 Lab Smp Id: 10218865001
 Inj Date : 05-FEB-2013 05:29
 Operator : CJR Inst ID: 10airD.i
 Smp Info :
 Misc Info : 16715
 Comment : Volatile Organic COMPOUNDS in Air
 Method : \\192.168.10.12\chem\10airD.i\020413.b\TO15_035-13.m
 Meth Date : 05-Feb-2013 08:02 creindl Quant Type: ISTD
 Cal Date : 04-FEB-2013 15:40 Cal File: 03516.d
 Als bottle: 41
 Dil Factor: 5763.07200
 Integrator: HP RTE Compound Sublist: all.sub
 Target Version: 4.14
 Processing Host: 10MNCREINDL

Concentration Formula: Amt * DF * Uf * CpndVariable

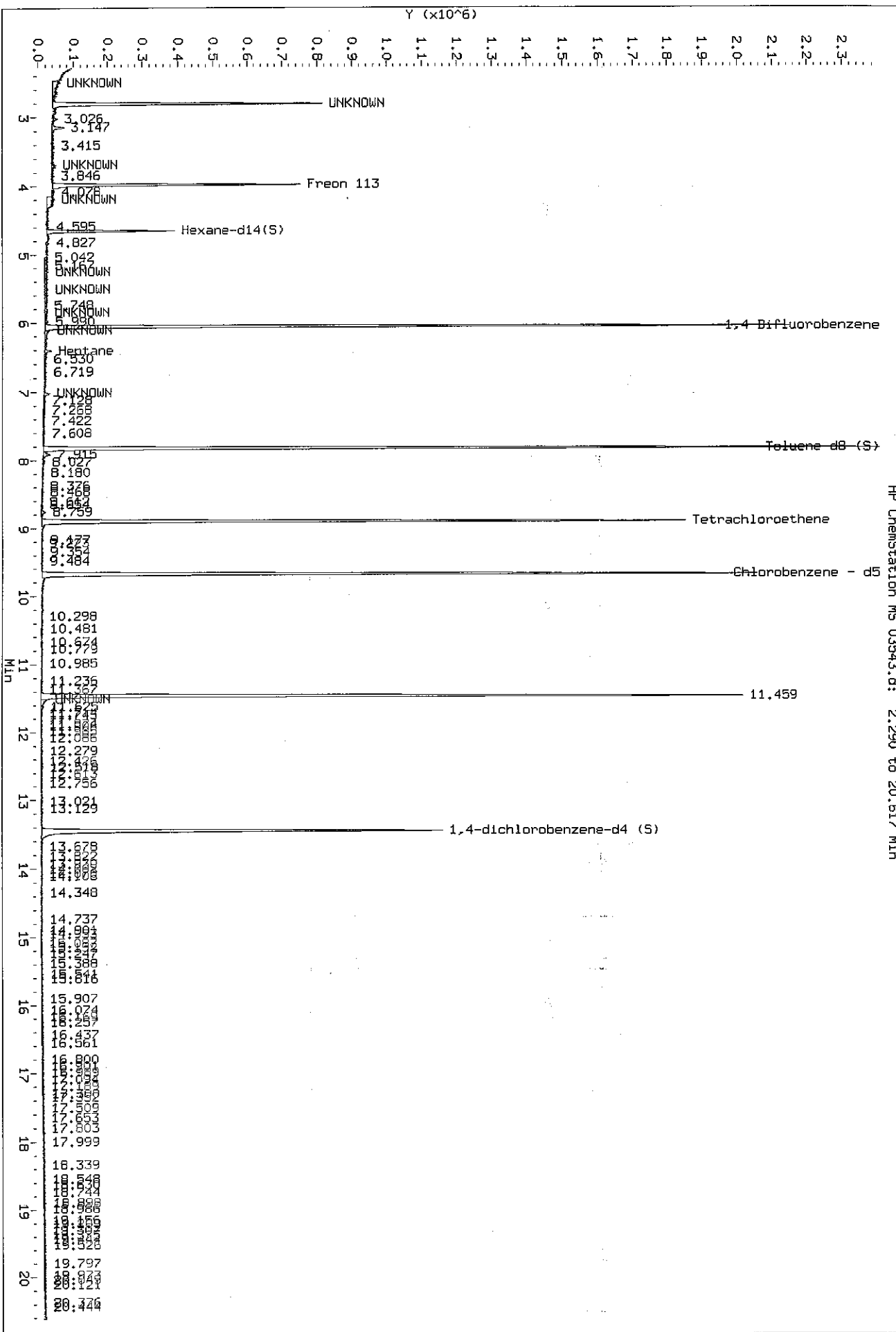
Name	Value	Description
DF	5763.072	Dilution Factor
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

COMPOUND	RT	AREA	AMOUNT
18 Freon 113	3.980	1117912	2.822
\$ 26 Hexane-d14(S)	4.653	534073	11.239
* 38 1,4-Difluorobenzene	6.059	3403973	10.000
40 Heptane	6.402	36894	0.046
* 55 Chlorobenzene - d5	9.677	3655644	10.000

RT	AREA	CONCENTRATIONS		QUAL	QUANT		CPND #
		ON-COL(ppbv)	FINAL(ppbv)		LIBRARY	LIB ENTRY	
Unknown 2.503	158041	0.39901570	2300	0		0	18
Unknown 2.810	1369351	3.45729172	19900	0		0	18
Unknown 3.692	56638	0.14299780	824	0		0	18

RT	CONCENTRATIONS			QUANT			
	AREA	ON-COL(ppbv)	FINAL(ppbv)	QUAL	LIBRARY	LIB ENTRY	CPND #
Unknown					CAS #:		
4.189	152578	0.38522495	2220	0		0	18
Unknown					CAS #:		
5.255	82906	1.74471513	10000	0		0	26
Unknown					CAS #:		
5.513	49399	0.14512095	836	0		0	38
Unknown					CAS #:		
5.856	36823	0.10817599	623	0		0	38
Unknown					CAS #:		
6.114	78391	0.23029220	1330	0		0	38
Unknown					CAS #:		
7.023	38196	0.04729394	272	0		0	40
Unknown					CAS #:		
11.514	50383	0.13782130	794	0		0	55

Data File: \\192.168.10.12\chem\10aird.1\020413.b\03543.d
 Injection Date: 05-FEB-2013 05:29
 Instrument: 10aird.1
 Client Sample ID:



HP ChemStation MS 03543.d: 2.290 to 20.617 MIN



CHAIN-OF-CUSTODY / Analytical Request Document

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

10218865

Page: 1 of 1													
Section A Required Client Information: Company: Landmark Environmental Address: 2042 W. 98th Street Bloomington, MN 55431 Email To: jskramstad@landmarkenv.com Phone: 952-887-9601, ext 205 Fax: 952-887-9605	Section B Required Project Information: Report To: Jason Skramstad Copy To: Eric Gabrielson Purchase Order No.: Project Name: City of Rochester Project Number: CRC												
Section C Invoice Information: Attention: Jason Skramstad Company Name: Landmark Environmental, LLC Address: 2042 W. 98th St., Bloomington, MN 55431 Pace Quote Reference: Pace Project Manager: Carolyne Trout Pace Profile #:													
Section D Required Client Information SAMPLE ID One Character per box. (A-Z, 0-9 / -) IDs MUST BE UNIQUE													
ITEM #	Valid Matrix Codes	DRINKING WATER	WATER	WASTE WATER	PRODUCT	SOLID	OIL	SLURRY	AIR	OTHER	TISSUE		
1	D	E	X	H	A	U	S	T	-	0	5	3	1
2													
3													
4													
5													
6													
7													
8													
Section E Required Project Information Matrix Code: A C Sample Type: C-GRAB C-COMP Collected: DATE 1/30/13 TIME 6:06 DATE 1/30/13 TIME 12:00 Sample Temp at Collection: _____ # of Containers: _____ Preservatives: Unpreserved, H ₂ SO ₄ , HNO ₃ , HCl, NaOH, Na ₂ S ₂ O ₈ , Methanol, Other													
Section F Filtered (Y/N) _____ Requested Analyte: _____ Pace Project Number Lab ID: 10218865													
Section G REGULATORY AGENCY <input type="checkbox"/> NPDES <input type="checkbox"/> GROUND WATER <input type="checkbox"/> DRINKING WATER <input type="checkbox"/> UST <input type="checkbox"/> RCRA <input type="checkbox"/> OTHER _____ SITE: <input type="checkbox"/> SA <input type="checkbox"/> L <input type="checkbox"/> N <input type="checkbox"/> V <input type="checkbox"/> P <input type="checkbox"/> Q LOCATION: <input type="checkbox"/> CH <input type="checkbox"/> F <input type="checkbox"/> SC <input type="checkbox"/> VI <input type="checkbox"/> THER _____													
Section H Additional Comments: Relinquished by / Affiliation: J. E. / PAER Date: 1/30/13 Time: 6:05 Sample Conditions: Received on Ice Y/N, Custody Sealed Cooler Y/N, Samples Intact Y/N													
Section I SAMPLER NAME AND SIGNATURE PRINT Name of SAMPLER: Eric Gabrielson SIGNATURE of SAMPLER: [Signature] DATE Signed (MM/DD/YY): 1/30/13													



Document Name:
Air Sample Condition Upon Receipt
Document No.:
F-MN-A-106-rev.07

Document Revised: 28Jan2013
Page 1 of 1
Issuing Authority:
Pace Minnesota Quality Office

Air Sample Condition Upon Receipt

Client Name:

Project #:

WO# : 10218865



Landmark
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: _____

Temp. (TO17 and TO13 samples only) (°C): amb Corrected Temp (°C): _____ Thermom. Used: B88A912167504 80512447 72337080
Temp should be above freezing to 6°C Correction Factor: _____ Date & Initials of Person Examining Contents: 1.30.13

Comments:

Chain of Custody Present?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Chain of Custody Filled Out?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.
Chain of Custody Relinquished?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	3.
Sampler Name and/or Signature on COC?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.
Samples Arrived within Hold Time?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5.
Short Hold Time Analysis (<72 hr)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	6.
Rush Turn Around Time Requested?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	7.
Sufficient Volume?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	8.
Correct Containers Used?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.
-Pace Containers Used?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Containers Intact?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	10.
Media: <u>1 can 1 PC</u>		11.
Sample Labels Match COC?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	12. <u>labeled DPE Exhaust not Exhaust</u>

Canisters		Flow Controllers		Stand Alone G	
Sample Number	Can ID	Sample Number	Can ID	Sample Number	Can ID
<u>DPE Exhaust</u>	<u>pace 0531</u>		<u>FC 0317</u>		

CLIENT NOTIFICATION/RESOLUTION

Field Data Required? Yes No

Person Contacted: _____ Date/Time: _____

Comments/Resolution: _____

Project Manager Review: CTM

Date: 1/31/13

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)

March 05, 2013

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

RE: Project: CRC City of Rochester
Pace Project No.: 10221079

Dear Mr. Skramstad:

Enclosed are the analytical results for sample(s) received by the laboratory on February 26, 2013. 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@pacelabs.com
Project Manager

Enclosures



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: CRC City of Rochester

Pace Project No.: 10221079

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

REPORT OF LABORATORY ANALYSIS

Page 2 of 13

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SAMPLE SUMMARY

Project: CRC City of Rochester
Pace Project No.: 10221079

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10221079001	DPE-Exhaust-1051	Air	02/25/13 20:30	02/26/13 14:18

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: CRC City of Rochester
Pace Project No.: 10221079

Lab ID	Sample ID	Method	Analysts	Analytes Reported
10221079001	DPE-Exhaust-1051	TO-15	DR1	61

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: CRC City of Rochester

Pace Project No.: 10221079

Sample: DPE-Exhaust-1051	Lab ID: 10221079001	Collected: 02/25/13 20:30	Received: 02/26/13 14:18	Matrix: Air				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR		Analytical Method: TO-15						
Acetone	48.0	ug/m3	22.5	46.9		03/01/13 19:38	67-64-1	
Benzene	18.0	ug/m3	15.2	46.9		03/01/13 19:38	71-43-2	
Benzyl chloride	ND	ug/m3	49.2	46.9		03/01/13 19:38	100-44-7	
Bromodichloromethane	ND	ug/m3	63.8	46.9		03/01/13 19:38	75-27-4	
Bromoform	ND	ug/m3	98.5	46.9		03/01/13 19:38	75-25-2	
Bromomethane	ND	ug/m3	37.1	46.9		03/01/13 19:38	74-83-9	
1,3-Butadiene	ND	ug/m3	21.1	46.9		03/01/13 19:38	106-99-0	
2-Butanone (MEK)	ND	ug/m3	28.1	46.9		03/01/13 19:38	78-93-3	
Carbon disulfide	ND	ug/m3	29.5	46.9		03/01/13 19:38	75-15-0	
Carbon tetrachloride	ND	ug/m3	30.0	46.9		03/01/13 19:38	56-23-5	
Chlorobenzene	ND	ug/m3	44.1	46.9		03/01/13 19:38	108-90-7	
Chloroethane	ND	ug/m3	25.3	46.9		03/01/13 19:38	75-00-3	
Chloroform	ND	ug/m3	46.4	46.9		03/01/13 19:38	67-66-3	
Chloromethane	ND	ug/m3	19.7	46.9		03/01/13 19:38	74-87-3	
Cyclohexane	104	ug/m3	32.8	46.9		03/01/13 19:38	110-82-7	
Dibromochloromethane	ND	ug/m3	81.1	46.9		03/01/13 19:38	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/m3	73.2	46.9		03/01/13 19:38	106-93-4	
1,2-Dichlorobenzene	ND	ug/m3	57.2	46.9		03/01/13 19:38	95-50-1	
1,3-Dichlorobenzene	ND	ug/m3	57.2	46.9		03/01/13 19:38	541-73-1	
1,4-Dichlorobenzene	ND	ug/m3	57.2	46.9		03/01/13 19:38	106-46-7	
Dichlorodifluoromethane	ND	ug/m3	47.4	46.9		03/01/13 19:38	75-71-8	
1,1-Dichloroethane	ND	ug/m3	38.5	46.9		03/01/13 19:38	75-34-3	
1,2-Dichloroethane	ND	ug/m3	19.2	46.9		03/01/13 19:38	107-06-2	
1,1-Dichloroethene	ND	ug/m3	38.0	46.9		03/01/13 19:38	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	38.0	46.9		03/01/13 19:38	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	38.0	46.9		03/01/13 19:38	156-60-5	
1,2-Dichloropropane	ND	ug/m3	44.1	46.9		03/01/13 19:38	78-87-5	
cis-1,3-Dichloropropene	ND	ug/m3	43.1	46.9		03/01/13 19:38	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/m3	43.1	46.9		03/01/13 19:38	10061-02-6	
Dichlorotetrafluoroethane	ND	ug/m3	66.6	46.9		03/01/13 19:38	76-14-2	
Ethanol	105	ug/m3	17.8	46.9		03/01/13 19:38	64-17-5	
Ethyl acetate	ND	ug/m3	34.2	46.9		03/01/13 19:38	141-78-6	
Ethylbenzene	ND	ug/m3	41.3	46.9		03/01/13 19:38	100-41-4	
4-Ethyltoluene	ND	ug/m3	46.9	46.9		03/01/13 19:38	622-96-8	
n-Heptane	ND	ug/m3	38.9	46.9		03/01/13 19:38	142-82-5	
Hexachloro-1,3-butadiene	ND	ug/m3	103	46.9		03/01/13 19:38	87-68-3	
n-Hexane	56.2	ug/m3	33.8	46.9		03/01/13 19:38	110-54-3	L1
2-Hexanone	ND	ug/m3	38.9	46.9		03/01/13 19:38	591-78-6	
Methylene Chloride	45.6	ug/m3	33.3	46.9		03/01/13 19:38	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/m3	38.9	46.9		03/01/13 19:38	108-10-1	
Methyl-tert-butyl ether	ND	ug/m3	34.2	46.9		03/01/13 19:38	1634-04-4	
Naphthalene	ND	ug/m3	50.2	46.9		03/01/13 19:38	91-20-3	
2-Propanol	ND	ug/m3	23.4	46.9		03/01/13 19:38	67-63-0	
Propylene	ND	ug/m3	16.4	46.9		03/01/13 19:38	115-07-1	
Styrene	ND	ug/m3	40.8	46.9		03/01/13 19:38	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/m3	32.7	46.9		03/01/13 19:38	79-34-5	
Tetrachloroethene	1600	ug/m3	32.3	46.9		03/01/13 19:38	127-18-4	

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REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: CRC City of Rochester

Pace Project No.: 10221079

Sample: DPE-Exhaust-1051		Lab ID: 10221079001	Collected: 02/25/13 20:30	Received: 02/26/13 14:18	Matrix: Air			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR		Analytical Method: TO-15						
Tetrahydrofuran	ND	ug/m3	28.1	46.9		03/01/13 19:38	109-99-9	
Toluene	54.7	ug/m3	36.1	46.9		03/01/13 19:38	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/m3	70.8	46.9		03/01/13 19:38	120-82-1	
1,1,1-Trichloroethane	ND	ug/m3	52.1	46.9		03/01/13 19:38	71-55-6	
1,1,2-Trichloroethane	ND	ug/m3	25.8	46.9		03/01/13 19:38	79-00-5	
Trichloroethene	ND	ug/m3	25.8	46.9		03/01/13 19:38	79-01-6	
Trichlorofluoromethane	ND	ug/m3	53.5	46.9		03/01/13 19:38	75-69-4	
1,1,2-Trichlorotrifluoroethane	7040	ug/m3	75.0	46.9		03/01/13 19:38	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/m3	46.9	46.9		03/01/13 19:38	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/m3	46.9	46.9		03/01/13 19:38	108-67-8	
Vinyl acetate	ND	ug/m3	33.6	46.9		03/01/13 19:38	108-05-4	
Vinyl chloride	ND	ug/m3	12.2	46.9		03/01/13 19:38	75-01-4	
m&p-Xylene	ND	ug/m3	82.5	46.9		03/01/13 19:38	179601-23-1	
o-Xylene	ND	ug/m3	41.3	46.9		03/01/13 19:38	95-47-6	

QUALITY CONTROL DATA

Project: CRC City of Rochester
Pace Project No.: 10221079

QC Batch: AIR/16860 Analysis Method: TO-15
QC Batch Method: TO-15 Analysis Description: TO15 MSV AIR Low Level
Associated Lab Samples: 10221079001

METHOD BLANK: 1384799 Matrix: Air
Associated Lab Samples: 10221079001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/m3	ND	1.1	03/01/13 15:14	
1,1,2,2-Tetrachloroethane	ug/m3	ND	0.70	03/01/13 15:14	
1,1,2-Trichloroethane	ug/m3	ND	0.55	03/01/13 15:14	
1,1,2-Trichlorotrifluoroethane	ug/m3	ND	1.6	03/01/13 15:14	
1,1-Dichloroethane	ug/m3	ND	0.82	03/01/13 15:14	
1,1-Dichloroethene	ug/m3	ND	0.81	03/01/13 15:14	
1,2,4-Trichlorobenzene	ug/m3	ND	1.5	03/01/13 15:14	
1,2,4-Trimethylbenzene	ug/m3	ND	1.0	03/01/13 15:14	
1,2-Dibromoethane (EDB)	ug/m3	ND	1.6	03/01/13 15:14	
1,2-Dichlorobenzene	ug/m3	ND	1.2	03/01/13 15:14	
1,2-Dichloroethane	ug/m3	ND	0.41	03/01/13 15:14	
1,2-Dichloropropane	ug/m3	ND	0.94	03/01/13 15:14	
1,3,5-Trimethylbenzene	ug/m3	ND	1.0	03/01/13 15:14	
1,3-Butadiene	ug/m3	ND	0.45	03/01/13 15:14	
1,3-Dichlorobenzene	ug/m3	ND	1.2	03/01/13 15:14	
1,4-Dichlorobenzene	ug/m3	ND	1.2	03/01/13 15:14	
2-Butanone (MEK)	ug/m3	ND	0.60	03/01/13 15:14	
2-Hexanone	ug/m3	ND	0.83	03/01/13 15:14	
2-Propanol	ug/m3	ND	0.50	03/01/13 15:14	
4-Ethyltoluene	ug/m3	ND	1.0	03/01/13 15:14	
4-Methyl-2-pentanone (MIBK)	ug/m3	ND	0.83	03/01/13 15:14	
Acetone	ug/m3	ND	0.48	03/01/13 15:14	
Benzene	ug/m3	ND	0.32	03/01/13 15:14	
Benzyl chloride	ug/m3	ND	1.0	03/01/13 15:14	
Bromodichloromethane	ug/m3	ND	1.4	03/01/13 15:14	
Bromoform	ug/m3	ND	2.1	03/01/13 15:14	
Bromomethane	ug/m3	ND	0.79	03/01/13 15:14	
Carbon disulfide	ug/m3	ND	0.63	03/01/13 15:14	
Carbon tetrachloride	ug/m3	ND	0.64	03/01/13 15:14	
Chlorobenzene	ug/m3	ND	0.94	03/01/13 15:14	
Chloroethane	ug/m3	ND	0.54	03/01/13 15:14	
Chloroform	ug/m3	ND	0.99	03/01/13 15:14	
Chloromethane	ug/m3	ND	0.42	03/01/13 15:14	
cis-1,2-Dichloroethene	ug/m3	ND	0.81	03/01/13 15:14	
cis-1,3-Dichloropropene	ug/m3	ND	0.92	03/01/13 15:14	
Cyclohexane	ug/m3	ND	0.70	03/01/13 15:14	
Dibromochloromethane	ug/m3	ND	1.7	03/01/13 15:14	
Dichlorodifluoromethane	ug/m3	ND	1.0	03/01/13 15:14	
Dichlorotetrafluoroethane	ug/m3	ND	1.4	03/01/13 15:14	
Ethanol	ug/m3	ND	0.38	03/01/13 15:14	
Ethyl acetate	ug/m3	ND	0.73	03/01/13 15:14	
Ethylbenzene	ug/m3	ND	0.88	03/01/13 15:14	
Hexachloro-1,3-butadiene	ug/m3	ND	2.2	03/01/13 15:14	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: CRC City of Rochester

Pace Project No.: 10221079

METHOD BLANK: 1384799

Matrix: Air

Associated Lab Samples: 10221079001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
m&p-Xylene	ug/m3	ND	1.8	03/01/13 15:14	
Methyl-tert-butyl ether	ug/m3	ND	0.73	03/01/13 15:14	
Methylene Chloride	ug/m3	ND	0.71	03/01/13 15:14	
n-Heptane	ug/m3	ND	0.83	03/01/13 15:14	
n-Hexane	ug/m3	ND	0.72	03/01/13 15:14	
Naphthalene	ug/m3	ND	1.1	03/01/13 15:14	
o-Xylene	ug/m3	ND	0.88	03/01/13 15:14	
Propylene	ug/m3	ND	0.35	03/01/13 15:14	
Styrene	ug/m3	ND	0.87	03/01/13 15:14	
Tetrachloroethene	ug/m3	ND	0.69	03/01/13 15:14	
Tetrahydrofuran	ug/m3	ND	0.60	03/01/13 15:14	
Toluene	ug/m3	ND	0.77	03/01/13 15:14	
trans-1,2-Dichloroethene	ug/m3	ND	0.81	03/01/13 15:14	
trans-1,3-Dichloropropene	ug/m3	ND	0.92	03/01/13 15:14	
Trichloroethene	ug/m3	ND	0.55	03/01/13 15:14	
Trichlorofluoromethane	ug/m3	ND	1.1	03/01/13 15:14	
Vinyl acetate	ug/m3	ND	0.72	03/01/13 15:14	
Vinyl chloride	ug/m3	ND	0.26	03/01/13 15:14	

LABORATORY CONTROL SAMPLE: 1384800

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/m3	55.5	52.4	94	69-131	
1,1,2,2-Tetrachloroethane	ug/m3	69.8	66.9	96	66-135	
1,1,2-Trichloroethane	ug/m3	55.5	53.3	96	68-132	
1,1,2-Trichlorotrifluoroethane	ug/m3	77.9	72.5	93	65-130	
1,1-Dichloroethane	ug/m3	41.2	36.5	89	66-131	
1,1-Dichloroethene	ug/m3	40.3	39.0	97	64-136	
1,2,4-Trichlorobenzene	ug/m3	75.5	86.8	115	30-150	
1,2,4-Trimethylbenzene	ug/m3	50	50.3	101	71-135	
1,2-Dibromoethane (EDB)	ug/m3	78.1	79.8	102	72-132	
1,2-Dichlorobenzene	ug/m3	61.2	61.3	100	68-148	
1,2-Dichloroethane	ug/m3	41.2	40.7	99	66-136	
1,2-Dichloropropane	ug/m3	47	41.0	87	68-133	
1,3,5-Trimethylbenzene	ug/m3	50	56.8	114	69-136	
1,3-Butadiene	ug/m3	22.5	20.5	91	69-134	
1,3-Dichlorobenzene	ug/m3	61.2	69.2	113	70-134	
1,4-Dichlorobenzene	ug/m3	61.2	65.5	107	66-134	
2-Butanone (MEK)	ug/m3	30	37.8	126	69-141	
2-Hexanone	ug/m3	41.7	41.6	100	74-132	
2-Propanol	ug/m3	25	25.3	101	64-139	
4-Ethyltoluene	ug/m3	50	51.3	103	71-134	
4-Methyl-2-pentanone (MIBK)	ug/m3	41.7	43.1	103	74-131	
Acetone	ug/m3	24.2	25.2	104	62-142	
Benzene	ug/m3	32.5	31.7	98	72-136	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: CRC City of Rochester

Pace Project No.: 10221079

LABORATORY CONTROL SAMPLE: 1384800

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Benzyl chloride	ug/m3	52.5	51.7	98	70-134	
Bromodichloromethane	ug/m3	68.2	66.2	97	69-135	
Bromoform	ug/m3	105	107	102	72-133	
Bromomethane	ug/m3	39.5	34.3	87	65-125	
Carbon disulfide	ug/m3	31.7	30.8	97	68-127	
Carbon tetrachloride	ug/m3	64	61.5	96	64-133	
Chlorobenzene	ug/m3	46.8	44.1	94	65-135	
Chloroethane	ug/m3	26.8	24.0	90	63-129	
Chloroform	ug/m3	49.7	43.5	88	66-129	
Chloromethane	ug/m3	21	20.3	97	57-135	
cis-1,2-Dichloroethene	ug/m3	40.3	38.7	96	73-135	
cis-1,3-Dichloropropene	ug/m3	46.2	46.1	100	75-137	
Cyclohexane	ug/m3	35	33.5	96	73-139	
Dibromochloromethane	ug/m3	86.6	86.0	99	73-130	
Dichlorodifluoromethane	ug/m3	50.3	45.6	91	64-131	
Dichlorotetrafluoroethane	ug/m3	71.1	68.5	96	64-131	
Ethanol	ug/m3	19.2	17.8	93	62-134	
Ethyl acetate	ug/m3	36.6	34.2	93	73-136	
Ethylbenzene	ug/m3	44.2	46.0	104	74-136	
Hexachloro-1,3-butadiene	ug/m3	108	111	103	30-150	
m&p-Xylene	ug/m3	44.2	47.1	107	72-135	
Methyl-tert-butyl ether	ug/m3	36.7	34.8	95	71-134	
Methylene Chloride	ug/m3	35.3	35.0	99	59-140	
n-Heptane	ug/m3	41.7	38.6	92	73-136	
n-Hexane	ug/m3	35.8	60.9	170	67-136 L1	
Naphthalene	ug/m3	53.3	66.1	124	30-150	
o-Xylene	ug/m3	44.2	47.4	107	74-135	
Propylene	ug/m3	17.5	19.1	109	66-138	
Styrene	ug/m3	43.3	48.0	111	73-135	
Tetrachloroethene	ug/m3	69	73.2	106	66-135	
Tetrahydrofuran	ug/m3	30	28.9	96	73-130	
Toluene	ug/m3	38.3	35.3	92	71-134	
trans-1,2-Dichloroethene	ug/m3	40.3	39.3	98	68-129	
trans-1,3-Dichloropropene	ug/m3	46.2	42.4	92	75-129	
Trichloroethene	ug/m3	54.6	51.8	95	68-134	
Trichlorofluoromethane	ug/m3	57.1	50.1	88	61-134	
Vinyl acetate	ug/m3	35.8	36.0	100	70-139	
Vinyl chloride	ug/m3	26	23.7	91	64-134	

SAMPLE DUPLICATE: 1385705

Parameter	Units	10220419001 Result	Dup Result	RPD	Max RPD	Qualifiers
1,1,1-Trichloroethane	ug/m3	ND	ND		25	
1,1,2,2-Tetrachloroethane	ug/m3	ND	ND		25	
1,1,2-Trichloroethane	ug/m3	ND	ND		25	
1,1,2-Trichlorotrifluoroethane	ug/m3	ND	ND		25	
1,1-Dichloroethane	ug/m3	ND	ND		25	

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QUALITY CONTROL DATA

Project: CRC City of Rochester

Pace Project No.: 10221079

SAMPLE DUPLICATE: 1385705

Parameter	Units	10220419001 Result	Dup Result	RPD	Max RPD	Qualifiers
1,1-Dichloroethene	ug/m3	ND	ND		25	
1,2,4-Trichlorobenzene	ug/m3	ND	ND		25	
1,2,4-Trimethylbenzene	ug/m3	ND	ND		25	
1,2-Dibromoethane (EDB)	ug/m3	ND	ND		25	
1,2-Dichlorobenzene	ug/m3	ND	ND		25	
1,2-Dichloroethane	ug/m3	ND	ND		25	
1,2-Dichloropropane	ug/m3	ND	ND		25	
1,3,5-Trimethylbenzene	ug/m3	ND	ND		25	
1,3-Butadiene	ug/m3	ND	ND		25	
1,3-Dichlorobenzene	ug/m3	ND	ND		25	
1,4-Dichlorobenzene	ug/m3	ND	ND		25	
2-Butanone (MEK)	ug/m3	ND	ND		25	
2-Hexanone	ug/m3	ND	ND		25	
2-Propanol	ug/m3	ND	ND		25	
4-Ethyltoluene	ug/m3	ND	ND		25	
4-Methyl-2-pentanone (MIBK)	ug/m3	ND	ND		25	
Acetone	ug/m3	ND	ND		25	
Benzene	ug/m3	ND	ND		25	
Benzyl chloride	ug/m3	ND	ND		25	
Bromodichloromethane	ug/m3	ND	ND		25	
Bromoform	ug/m3	ND	ND		25	
Bromomethane	ug/m3	ND	ND		25	
Carbon disulfide	ug/m3	ND	ND		25	
Carbon tetrachloride	ug/m3	ND	ND		25	
Chlorobenzene	ug/m3	ND	ND		25	
Chloroethane	ug/m3	ND	ND		25	
Chloroform	ug/m3	ND	ND		25	
Chloromethane	ug/m3	ND	ND		25	
cis-1,2-Dichloroethene	ug/m3	ND	ND		25	
cis-1,3-Dichloropropene	ug/m3	ND	ND		25	
Cyclohexane	ug/m3	ND	ND		25	
Dibromochloromethane	ug/m3	ND	ND		25	
Dichlorodifluoromethane	ug/m3	ND	ND		25	
Dichlorotetrafluoroethane	ug/m3	ND	ND		25	
Ethanol	ug/m3	ND	ND		25	
Ethyl acetate	ug/m3	ND	ND		25	
Ethylbenzene	ug/m3	ND	ND		25	
Hexachloro-1,3-butadiene	ug/m3	ND	ND		25	
m&p-Xylene	ug/m3	ND	ND		25	
Methyl-tert-butyl ether	ug/m3	ND	ND		25	
Methylene Chloride	ug/m3	ND	ND		25	
n-Heptane	ug/m3	ND	ND		25	
n-Hexane	ug/m3	67.4	69.1	2	25	L1
Naphthalene	ug/m3	ND	ND		25	
o-Xylene	ug/m3	ND	ND		25	
Propylene	ug/m3	ND	ND		25	
Styrene	ug/m3	ND	ND		25	
Tetrachloroethene	ug/m3	ND	ND		25	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: CRC City of Rochester

Pace Project No.: 10221079

SAMPLE DUPLICATE: 1385705

Parameter	Units	10220419001 Result	Dup Result	RPD	Max RPD	Qualifiers
Tetrahydrofuran	ug/m3	ND	ND		25	
Toluene	ug/m3	ND	ND		25	
trans-1,2-Dichloroethene	ug/m3	ND	ND		25	
trans-1,3-Dichloropropene	ug/m3	ND	ND		25	
Trichloroethene	ug/m3	ND	ND		25	
Trichlorofluoromethane	ug/m3	ND	ND		25	
Vinyl acetate	ug/m3	ND	ND		25	
Vinyl chloride	ug/m3	ND	ND		25	

QUALIFIERS

Project: CRC City of Rochester

Pace Project No.: 10221079

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: 10221079001

[1] The Total Hydrocarbon (THC) pattern occurred in the first half of the chromatogram (before toluene).

ANALYTE QUALIFIERS

L1 Analyte recovery in the laboratory control sample (LCS) was above QC limits. Results may be biased high.

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: CRC City of Rochester
Pace Project No.: 10221079

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10221079001	DPE-Exhaust-1051	TO-15	AIR/16860		

Pace Analytical Services, Inc.

TENTATIVELY IDENTIFIED COMPOUNDS

Client Name:
Lab Smp Id: 10221079001
Operator : DR1
Sample Location:
Sample Matrix: AIR
Analysis Type: VOA
Inj Date: 01-MAR-2013 19:38

Client SDG: 030113.b
Sample Date:
Sample Point:
Date Received:
Level: LOW

Number TICs found: 2

CONCENTRATION UNITS:
(ug/L or ug/KG) ppbv

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	Unknown	3.845	329	J
2. 96-37-7	Cyclopentane, methyl-	6.488	59.9	NJ

Pace Analytical Services, Inc.

TO15 Analysis (UNIX)

Data file : \\192.168.10.12\chem\10air0.i\030113.b\06022.D
 Lab Smp Id: 10221079001
 Inj Date : 01-MAR-2013 19:38
 Operator : DR1
 Smp Info :
 Misc Info : 16860
 Comment : Volatile Organic COMPOUNDS in Air
 Method : \\192.168.10.12\chem\10air0.i\030113.b\TO15_060-13.m
 Meth Date : 01-Mar-2013 13:26 drandall
 Cal Date : 01-MAR-2013 12:48
 Als bottle: 22
 Dil Factor: 46.90000
 Integrator: HP RTE
 Target Version: 4.14

Inst ID: 10air0.i

Quant Type: ISTD
 Cal File: 06008.D

Compound Sublist: all.sub

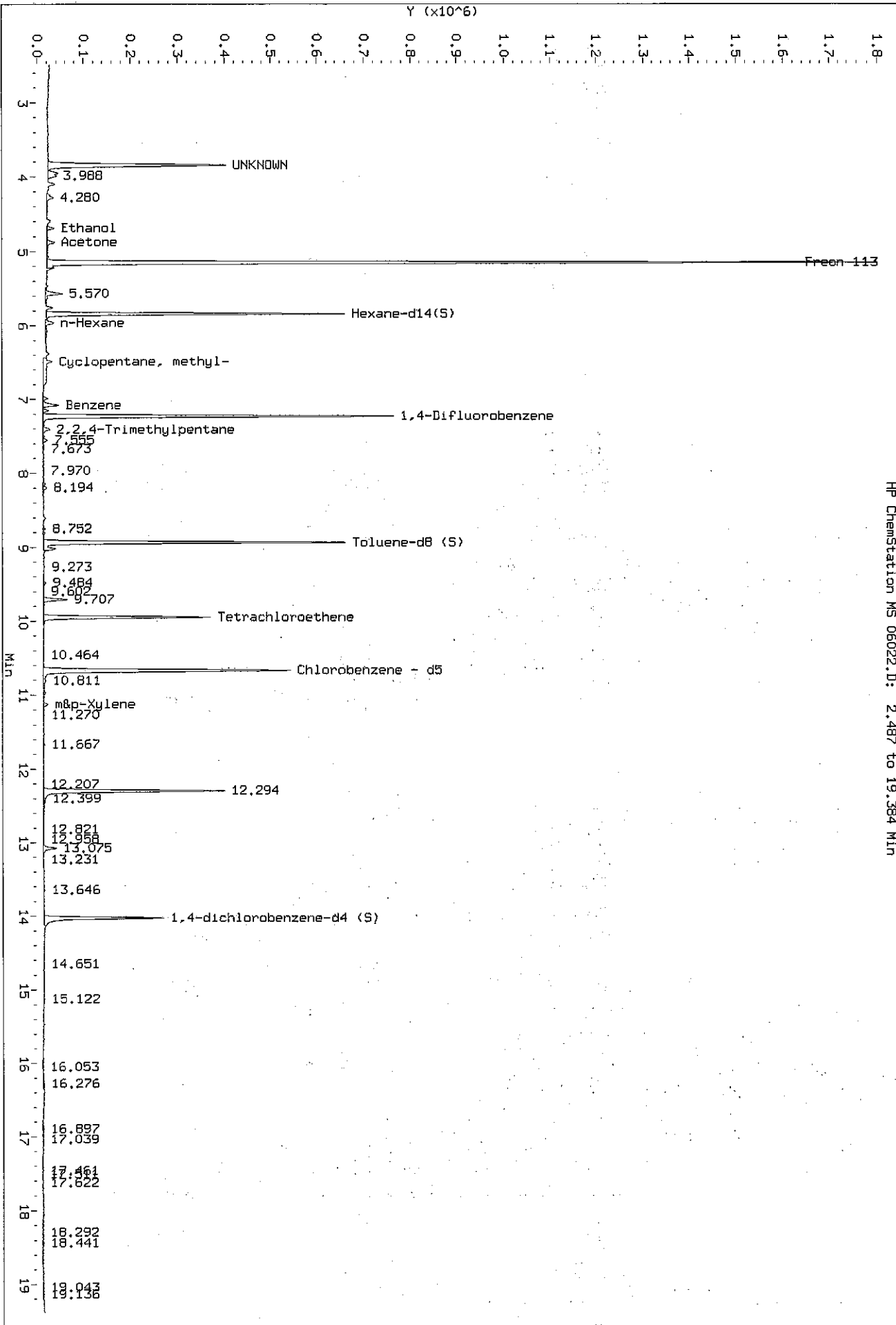
Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	46.900	Dilution Factor
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

ISTD	RT	AREA	AMOUNT
=====	=====	=====	=====
* 38	7.232	1427557	10.000

RT	AREA	CONCENTRATIONS		QUAL	QUANT		CPND #
		ON-COL(ppbv)	FINAL(ppbv)		LIBRARY	LIB ENTRY	
Unknown							
3.845	1002873	7.02509912	329	0		0	38
Cyclopentane, methyl-							
6.488	182343	1.27730783	59.9	90	NIST05.L	1468	38

Data File: \\192.168.10.12\chem\10a1r0.1\030113.b\06022.D
Injection Date: 01-MAR-2013 19:38
Instrument: 10a1r0.1
Client Sample ID:



HP ChemStation MS 06022.D: 2.487 to 19.384 MIN



CHAIN-OF-CUSTODY / Analytical Request Document

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

10221079

Section A Required Client Information:	Section B Required Project Information:	Section C Invoice Information:	Section D Required Client Information		REGULATORY AGENCY																																																																																																																																							
Company: Landmark Environmental Address: 2042 W. 98th Street Bloomington, MN 55431 Email To: jskramstad@landmarkenv.com Phone: 952-887-9601, ext 205 Fax: 952-887-9605	Report To: Jason Skramstad Copy To: Eric Gabrielson Purchase Order No.: Project Name: City of Rochester Project Number: ORC	Attention: Jason Skramstad Company Name: Landmark Environmental, LLC Address: 2042 W. 98th St, Bloomington, MN 55431 Pace Quote Reference: Pace Project Manager:Carolynne Trout Pace Profile #:	Valid Matrix Codes MATRIX: DRINKING WATER, WASTE WATER, SOLID, OIL, WIRE, AIR, OTHER, TISSUE CODE: DW, WT, WW, SL, OL, WP, AR, IT, TS Samples (A-Z, 0-9 /, -) IDs MUST BE UNIQUE	Requested Due Date/TAT: Normal	<input type="checkbox"/> NPDES <input type="checkbox"/> GROUND WATER <input type="checkbox"/> DRINKING WATER <input type="checkbox"/> UST <input type="checkbox"/> RCRA <input type="checkbox"/> OTHER SITE: <input type="checkbox"/> 3A <input type="checkbox"/> L <input type="checkbox"/> V <input type="checkbox"/> <input type="checkbox"/> LOCATION: <input type="checkbox"/> CH <input type="checkbox"/> SC <input type="checkbox"/> VI <input type="checkbox"/> THER																																																																																																																																							
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Additional Comments: SAMPLER NAME AND SIGNATURE: Eric Gabrielson PRINT Name of SAMPLER: Eric Gabrielson SIGNATURE of SAMPLER: [Signature]		# OF CONTAINERS PRESERVATIVES: H ₂ SO ₄ , HNO ₃ , HCl, NaOH, Na ₂ SO ₃ , Methanol, Other		Temp in °C Received on Ice Custody Sealed Cooler Samples Intact																																																																																																																																								



Document Name:
Air Sample Condition Upon Receipt
Document No.:
F-MN-A-106-rev.07

Document Revised: 28Jan2013
Page 1 of 1
Issuing Authority:
Pace Minnesota Quality Office

Air Sample Condition
Upon Receipt

Client Name: Landmark Environmental Project #: _____

WO#: **10221079**

10221079

Courier: Fed Ex UPS USPS Client
 Commercial Pace Other: 2-26

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: _____

Temp. (TO17 and TO13 samples only) (°C): 2 Corrected Temp (°C): _____ Thermom. Used: B88A912167504 80512447 72337080
 Temp should be above freezing to 6°C Correction Factor: _____ Date & Initials of Person Examining Contents: 2-26-13

Comments:

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

Samples Received:

Canisters		Flow Controllers		Stand Alone G	
Sample Number	Can ID	Sample Number	Can ID	Sample Number	Can ID
<u>APE-Exhaust</u>	<u>Pace 1051</u>		<u>FC 0223</u>		

CLIENT NOTIFICATION/RESOLUTION

Field Data Required? Yes No

Person Contacted: _____ Date/Time: _____

Comments/Resolution: _____

Project Manager Review: [Signature] Date: 02/27/13

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)

March 29, 2013

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

RE: Project: CRC City of Rochester
Pace Project No.: 10223140

Dear Mr. Skramstad:

Enclosed are the analytical results for sample(s) received by the laboratory on March 21, 2013. 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@pacelabs.com
Project Manager

Enclosures



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: CRC City of Rochester

Pace Project No.: 10223140

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

REPORT OF LABORATORY ANALYSIS

Page 2 of 13

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SAMPLE SUMMARY

Project: CRC City of Rochester

Pace Project No.: 10223140

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10223140001	DPE-Exhaust-0836	Air	03/21/13 12:00	03/21/13 15:50

REPORT OF LABORATORY ANALYSIS

SAMPLE ANALYTE COUNT

Project: CRC City of Rochester
Pace Project No.: 10223140

Lab ID	Sample ID	Method	Analysts	Analytes Reported
10223140001	DPE-Exhaust-0836	TO-15	CJR	61

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: CRC City of Rochester

Pace Project No.: 10223140

Sample: DPE-Exhaust-0836	Lab ID: 10223140001	Collected: 03/21/13 12:00	Received: 03/21/13 15:50	Matrix: Air				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR		Analytical Method: TO-15						
Acetone	71.2	ug/m3	46.1	96.05		03/27/13 22:42	67-64-1	
Benzene	ND	ug/m3	31.2	96.05		03/27/13 22:42	71-43-2	
Benzyl chloride	ND	ug/m3	101	96.05		03/27/13 22:42	100-44-7	
Bromodichloromethane	ND	ug/m3	131	96.05		03/27/13 22:42	75-27-4	
Bromoform	ND	ug/m3	202	96.05		03/27/13 22:42	75-25-2	
Bromomethane	ND	ug/m3	75.9	96.05		03/27/13 22:42	74-83-9	
1,3-Butadiene	ND	ug/m3	43.2	96.05		03/27/13 22:42	106-99-0	
2-Butanone (MEK)	ND	ug/m3	57.6	96.05		03/27/13 22:42	78-93-3	
Carbon disulfide	ND	ug/m3	60.5	96.05		03/27/13 22:42	75-15-0	
Carbon tetrachloride	ND	ug/m3	61.5	96.05		03/27/13 22:42	56-23-5	
Chlorobenzene	ND	ug/m3	90.3	96.05		03/27/13 22:42	108-90-7	
Chloroethane	ND	ug/m3	51.9	96.05		03/27/13 22:42	75-00-3	
Chloroform	ND	ug/m3	95.1	96.05		03/27/13 22:42	67-66-3	
Chloromethane	ND	ug/m3	40.3	96.05		03/27/13 22:42	74-87-3	
Cyclohexane	ND	ug/m3	67.2	96.05		03/27/13 22:42	110-82-7	
Dibromochloromethane	ND	ug/m3	166	96.05		03/27/13 22:42	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/m3	150	96.05		03/27/13 22:42	106-93-4	
1,2-Dichlorobenzene	ND	ug/m3	117	96.05		03/27/13 22:42	95-50-1	
1,3-Dichlorobenzene	ND	ug/m3	117	96.05		03/27/13 22:42	541-73-1	
1,4-Dichlorobenzene	ND	ug/m3	117	96.05		03/27/13 22:42	106-46-7	
Dichlorodifluoromethane	ND	ug/m3	97.0	96.05		03/27/13 22:42	75-71-8	
1,1-Dichloroethane	ND	ug/m3	78.8	96.05		03/27/13 22:42	75-34-3	
1,2-Dichloroethane	ND	ug/m3	39.4	96.05		03/27/13 22:42	107-06-2	
1,1-Dichloroethene	ND	ug/m3	77.8	96.05		03/27/13 22:42	75-35-4	
cis-1,2-Dichloroethene	84.4	ug/m3	77.8	96.05		03/27/13 22:42	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	77.8	96.05		03/27/13 22:42	156-60-5	
1,2-Dichloropropane	ND	ug/m3	90.3	96.05		03/27/13 22:42	78-87-5	
cis-1,3-Dichloropropene	ND	ug/m3	88.4	96.05		03/27/13 22:42	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/m3	88.4	96.05		03/27/13 22:42	10061-02-6	
Dichlorotetrafluoroethane	ND	ug/m3	136	96.05		03/27/13 22:42	76-14-2	
Ethanol	507	ug/m3	36.5	96.05		03/27/13 22:42	64-17-5	
Ethyl acetate	ND	ug/m3	70.1	96.05		03/27/13 22:42	141-78-6	
Ethylbenzene	ND	ug/m3	84.5	96.05		03/27/13 22:42	100-41-4	
4-Ethyltoluene	ND	ug/m3	96.0	96.05		03/27/13 22:42	622-96-8	
n-Heptane	ND	ug/m3	79.7	96.05		03/27/13 22:42	142-82-5	
Hexachloro-1,3-butadiene	ND	ug/m3	211	96.05		03/27/13 22:42	87-68-3	
n-Hexane	89.2	ug/m3	69.2	96.05		03/27/13 22:42	110-54-3	
2-Hexanone	ND	ug/m3	79.7	96.05		03/27/13 22:42	591-78-6	
Methylene Chloride	80.0	ug/m3	68.2	96.05		03/27/13 22:42	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/m3	79.7	96.05		03/27/13 22:42	108-10-1	
Methyl-tert-butyl ether	ND	ug/m3	70.1	96.05		03/27/13 22:42	1634-04-4	
Naphthalene	ND	ug/m3	103	96.05		03/27/13 22:42	91-20-3	
2-Propanol	126	ug/m3	48.0	96.05		03/27/13 22:42	67-63-0	
Propylene	ND	ug/m3	33.6	96.05		03/27/13 22:42	115-07-1	
Styrene	ND	ug/m3	83.6	96.05		03/27/13 22:42	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/m3	67.0	96.05		03/27/13 22:42	79-34-5	
Tetrachloroethene	17500	ug/m3	988	1433.6		03/27/13 00:21	127-18-4	

Date: 03/29/2013 11:03 AM

REPORT OF LABORATORY ANALYSIS

Page 5 of 13

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ANALYTICAL RESULTS

Project: CRC City of Rochester

Pace Project No.: 10223140

Sample: DPE-Exhaust-0836		Lab ID: 10223140001	Collected: 03/21/13 12:00	Received: 03/21/13 15:50	Matrix: Air			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR		Analytical Method: TO-15						
Tetrahydrofuran	ND	ug/m3	57.6	96.05		03/27/13 22:42	109-99-9	
Toluene	114	ug/m3	74.0	96.05		03/27/13 22:42	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/m3	145	96.05		03/27/13 22:42	120-82-1	
1,1,1-Trichloroethane	ND	ug/m3	107	96.05		03/27/13 22:42	71-55-6	
1,1,2-Trichloroethane	ND	ug/m3	52.8	96.05		03/27/13 22:42	79-00-5	
Trichloroethene	ND	ug/m3	52.8	96.05		03/27/13 22:42	79-01-6	
Trichlorofluoromethane	ND	ug/m3	109	96.05		03/27/13 22:42	75-69-4	
1,1,2-Trichlorotrifluoroethane	33300	ug/m3	2290	1433.6		03/27/13 00:21	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/m3	96.0	96.05		03/27/13 22:42	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/m3	96.0	96.05		03/27/13 22:42	108-67-8	
Vinyl acetate	ND	ug/m3	68.8	96.05		03/27/13 22:42	108-05-4	
Vinyl chloride	ND	ug/m3	25.0	96.05		03/27/13 22:42	75-01-4	
m&p-Xylene	ND	ug/m3	169	96.05		03/27/13 22:42	179601-23-1	
o-Xylene	ND	ug/m3	84.5	96.05		03/27/13 22:42	95-47-6	

QUALITY CONTROL DATA

Project: CRC City of Rochester
Pace Project No.: 10223140

QC Batch: AIR/17018 Analysis Method: TO-15
QC Batch Method: TO-15 Analysis Description: TO15 MSV AIR Low Level
Associated Lab Samples: 10223140001

METHOD BLANK: 1398896 Matrix: Air
Associated Lab Samples: 10223140001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/m3	ND	1.1	03/27/13 21:14	
1,1,2,2-Tetrachloroethane	ug/m3	ND	0.70	03/27/13 21:14	
1,1,2-Trichloroethane	ug/m3	ND	0.55	03/27/13 21:14	
1,1,2-Trichlorotrifluoroethane	ug/m3	ND	1.6	03/27/13 21:14	
1,1-Dichloroethane	ug/m3	ND	0.82	03/27/13 21:14	
1,1-Dichloroethene	ug/m3	ND	0.81	03/27/13 21:14	
1,2,4-Trichlorobenzene	ug/m3	ND	1.5	03/27/13 21:14	
1,2,4-Trimethylbenzene	ug/m3	ND	1.0	03/27/13 21:14	
1,2-Dibromoethane (EDB)	ug/m3	ND	1.6	03/27/13 21:14	
1,2-Dichlorobenzene	ug/m3	ND	1.2	03/27/13 21:14	
1,2-Dichloroethane	ug/m3	ND	0.41	03/27/13 21:14	
1,2-Dichloropropane	ug/m3	ND	0.94	03/27/13 21:14	
1,3,5-Trimethylbenzene	ug/m3	ND	1.0	03/27/13 21:14	
1,3-Butadiene	ug/m3	ND	0.45	03/27/13 21:14	
1,3-Dichlorobenzene	ug/m3	ND	1.2	03/27/13 21:14	
1,4-Dichlorobenzene	ug/m3	ND	1.2	03/27/13 21:14	
2-Butanone (MEK)	ug/m3	ND	0.60	03/27/13 21:14	
2-Hexanone	ug/m3	ND	0.83	03/27/13 21:14	
2-Propanol	ug/m3	ND	0.50	03/27/13 21:14	
4-Ethyltoluene	ug/m3	ND	1.0	03/27/13 21:14	
4-Methyl-2-pentanone (MIBK)	ug/m3	ND	0.83	03/27/13 21:14	
Acetone	ug/m3	ND	0.48	03/27/13 21:14	
Benzene	ug/m3	ND	0.32	03/27/13 21:14	
Benzyl chloride	ug/m3	ND	1.0	03/27/13 21:14	
Bromodichloromethane	ug/m3	ND	1.4	03/27/13 21:14	
Bromoform	ug/m3	ND	2.1	03/27/13 21:14	
Bromomethane	ug/m3	ND	0.79	03/27/13 21:14	
Carbon disulfide	ug/m3	ND	0.63	03/27/13 21:14	
Carbon tetrachloride	ug/m3	ND	0.64	03/27/13 21:14	
Chlorobenzene	ug/m3	ND	0.94	03/27/13 21:14	
Chloroethane	ug/m3	ND	0.54	03/27/13 21:14	
Chloroform	ug/m3	ND	0.99	03/27/13 21:14	
Chloromethane	ug/m3	ND	0.42	03/27/13 21:14	
cis-1,2-Dichloroethene	ug/m3	ND	0.81	03/27/13 21:14	
cis-1,3-Dichloropropene	ug/m3	ND	0.92	03/27/13 21:14	
Cyclohexane	ug/m3	ND	0.70	03/27/13 21:14	
Dibromochloromethane	ug/m3	ND	1.7	03/27/13 21:14	
Dichlorodifluoromethane	ug/m3	ND	1.0	03/27/13 21:14	
Dichlorotetrafluoroethane	ug/m3	ND	1.4	03/27/13 21:14	
Ethanol	ug/m3	ND	0.38	03/27/13 21:14	
Ethyl acetate	ug/m3	ND	0.73	03/27/13 21:14	
Ethylbenzene	ug/m3	ND	0.88	03/27/13 21:14	
Hexachloro-1,3-butadiene	ug/m3	ND	2.2	03/27/13 21:14	

Date: 03/29/2013 11:03 AM

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: CRC City of Rochester

Pace Project No.: 10223140

METHOD BLANK: 1398896

Matrix: Air

Associated Lab Samples: 10223140001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
m&p-Xylene	ug/m3	ND	1.8	03/27/13 21:14	
Methyl-tert-butyl ether	ug/m3	ND	0.73	03/27/13 21:14	
Methylene Chloride	ug/m3	ND	0.71	03/27/13 21:14	
n-Heptane	ug/m3	ND	0.83	03/27/13 21:14	
n-Hexane	ug/m3	ND	0.72	03/27/13 21:14	
Naphthalene	ug/m3	ND	1.1	03/27/13 21:14	
o-Xylene	ug/m3	ND	0.88	03/27/13 21:14	
Propylene	ug/m3	ND	0.35	03/27/13 21:14	
Styrene	ug/m3	ND	0.87	03/27/13 21:14	
Tetrachloroethene	ug/m3	ND	0.69	03/27/13 21:14	
Tetrahydrofuran	ug/m3	ND	0.60	03/27/13 21:14	
Toluene	ug/m3	ND	0.77	03/27/13 21:14	
trans-1,2-Dichloroethene	ug/m3	ND	0.81	03/27/13 21:14	
trans-1,3-Dichloropropene	ug/m3	ND	0.92	03/27/13 21:14	
Trichloroethene	ug/m3	ND	0.55	03/27/13 21:14	
Trichlorofluoromethane	ug/m3	ND	1.1	03/27/13 21:14	
Vinyl acetate	ug/m3	ND	0.72	03/27/13 21:14	
Vinyl chloride	ug/m3	ND	0.26	03/27/13 21:14	

LABORATORY CONTROL SAMPLE: 1398897

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/m3	55.5	65.4	118	69-131	
1,1,2,2-Tetrachloroethane	ug/m3	69.8	74.4	107	66-135	
1,1,2-Trichloroethane	ug/m3	55.5	65.1	117	68-132	
1,1,2-Trichlorotrifluoroethane	ug/m3	77.9	85.9	110	65-130	
1,1-Dichloroethane	ug/m3	41.2	45.0	109	66-131	
1,1-Dichloroethene	ug/m3	40.3	43.9	109	64-136	
1,2,4-Trichlorobenzene	ug/m3	75.5	94.4	125	30-150	
1,2,4-Trimethylbenzene	ug/m3	50	53.5	107	71-135	
1,2-Dibromoethane (EDB)	ug/m3	78.1	82.1	105	72-132	
1,2-Dichlorobenzene	ug/m3	61.2	63.8	104	68-148	
1,2-Dichloroethane	ug/m3	41.2	47.3	115	66-136	
1,2-Dichloropropane	ug/m3	47	56.5	120	68-133	
1,3,5-Trimethylbenzene	ug/m3	50	54.0	108	69-136	
1,3-Butadiene	ug/m3	22.5	26.1	116	69-134	
1,3-Dichlorobenzene	ug/m3	61.2	63.8	104	70-134	
1,4-Dichlorobenzene	ug/m3	61.2	64.7	106	66-134	
2-Butanone (MEK)	ug/m3	30	36.0	120	69-141	
2-Hexanone	ug/m3	41.7	45.0	108	74-132	
2-Propanol	ug/m3	25	29.5	118	64-139	
4-Ethyltoluene	ug/m3	50	54.3	109	71-134	
4-Methyl-2-pentanone (MIBK)	ug/m3	41.7	44.7	107	74-131	
Acetone	ug/m3	24.2	26.6	110	62-142	
Benzene	ug/m3	32.5	40.0	123	72-136	

Date: 03/29/2013 11:03 AM

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: CRC City of Rochester

Pace Project No.: 10223140

LABORATORY CONTROL SAMPLE: 1398897

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Benzyl chloride	ug/m3	52.5	54.0	103	70-134	
Bromodichloromethane	ug/m3	68.2	87.3	128	69-135	
Bromoform	ug/m3	105	110	105	72-133	
Bromomethane	ug/m3	39.5	42.4	107	65-125	
Carbon disulfide	ug/m3	31.7	38.3	121	68-127	
Carbon tetrachloride	ug/m3	64	72.3	113	64-133	
Chlorobenzene	ug/m3	46.8	53.9	115	65-135	
Chloroethane	ug/m3	26.8	29.8	111	63-129	
Chloroform	ug/m3	49.7	55.5	112	66-129	
Chloromethane	ug/m3	21	22.9	109	57-135	
cis-1,2-Dichloroethene	ug/m3	40.3	45.3	112	73-135	
cis-1,3-Dichloropropene	ug/m3	46.2	47.4	103	75-137	
Cyclohexane	ug/m3	35	37.5	107	73-139	
Dibromochloromethane	ug/m3	86.6	93.0	107	73-130	
Dichlorodifluoromethane	ug/m3	50.3	55.1	110	64-131	
Dichlorotetrafluoroethane	ug/m3	71.1	78.5	110	64-131	
Ethanol	ug/m3	19.2	21.6	113	62-134	
Ethyl acetate	ug/m3	36.6	39.5	108	73-136	
Ethylbenzene	ug/m3	44.2	48.1	109	74-136	
Hexachloro-1,3-butadiene	ug/m3	108	132	121	30-150	
m&p-Xylene	ug/m3	44.2	48.2	109	72-135	
Methyl-tert-butyl ether	ug/m3	36.7	45.1	123	71-134	
Methylene Chloride	ug/m3	35.3	38.1	108	59-140	
n-Heptane	ug/m3	41.7	53.9	129	73-136	
n-Hexane	ug/m3	35.8	37.6	105	67-136	
Naphthalene	ug/m3	53.3	67.5	127	30-150	
o-Xylene	ug/m3	44.2	48.0	109	74-135	
Propylene	ug/m3	17.5	19.8	113	66-138	
Styrene	ug/m3	43.3	45.6	105	73-135	
Tetrachloroethene	ug/m3	69	82.8	120	66-135	
Tetrahydrofuran	ug/m3	30	32.0	107	73-130	
Toluene	ug/m3	38.3	39.9	104	71-134	
trans-1,2-Dichloroethene	ug/m3	40.3	45.1	112	68-129	
trans-1,3-Dichloropropene	ug/m3	46.2	47.8	104	75-129	
Trichloroethene	ug/m3	54.6	58.7	107	68-134	
Trichlorofluoromethane	ug/m3	57.1	63.1	110	61-134	
Vinyl acetate	ug/m3	35.8	40.1	112	70-139	
Vinyl chloride	ug/m3	26	29.8	115	64-134	

SAMPLE DUPLICATE: 1399400

Parameter	Units	10222805001 Result	Dup Result	RPD	Max RPD	Qualifiers
1,1,1-Trichloroethane	ug/m3	ND	ND		25	
1,1,2,2-Tetrachloroethane	ug/m3	ND	ND		25	
1,1,2-Trichloroethane	ug/m3	ND	ND		25	
1,1,2-Trichlorotrifluoroethane	ug/m3	ND	ND		25	
1,1-Dichloroethane	ug/m3	ND	ND		25	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: CRC City of Rochester

Pace Project No.: 10223140

SAMPLE DUPLICATE: 1399400

Parameter	Units	10222805001 Result	Dup Result	RPD	Max RPD	Qualifiers
1,1-Dichloroethene	ug/m3	ND	ND		25	
1,2,4-Trichlorobenzene	ug/m3	ND	ND		25	
1,2,4-Trimethylbenzene	ug/m3	ND	ND		25	
1,2-Dibromoethane (EDB)	ug/m3	ND	ND		25	
1,2-Dichlorobenzene	ug/m3	ND	ND		25	
1,2-Dichloroethane	ug/m3	ND	ND		25	
1,2-Dichloropropane	ug/m3	ND	ND		25	
1,3,5-Trimethylbenzene	ug/m3	ND	ND		25	
1,3-Butadiene	ug/m3	ND	ND		25	
1,3-Dichlorobenzene	ug/m3	ND	ND		25	
1,4-Dichlorobenzene	ug/m3	ND	ND		25	
2-Butanone (MEK)	ug/m3	ND	ND		25	
2-Hexanone	ug/m3	ND	ND		25	
2-Propanol	ug/m3	ND	ND		25	
4-Ethyltoluene	ug/m3	ND	ND		25	
4-Methyl-2-pentanone (MIBK)	ug/m3	ND	ND		25	
Acetone	ug/m3	19.8	18.8	5	25	
Benzene	ug/m3	ND	ND		25	
Benzyl chloride	ug/m3	ND	ND		25	
Bromodichloromethane	ug/m3	ND	ND		25	
Bromoform	ug/m3	ND	ND		25	
Bromomethane	ug/m3	ND	ND		25	
Carbon disulfide	ug/m3	ND	ND		25	
Carbon tetrachloride	ug/m3	ND	ND		25	
Chlorobenzene	ug/m3	ND	ND		25	
Chloroethane	ug/m3	ND	ND		25	
Chloroform	ug/m3	ND	ND		25	
Chloromethane	ug/m3	ND	ND		25	
cis-1,2-Dichloroethene	ug/m3	ND	ND		25	
cis-1,3-Dichloropropene	ug/m3	ND	ND		25	
Cyclohexane	ug/m3	ND	ND		25	
Dibromochloromethane	ug/m3	ND	ND		25	
Dichlorodifluoromethane	ug/m3	ND	ND		25	
Dichlorotetrafluoroethane	ug/m3	ND	ND		25	
Ethanol	ug/m3	57.4	57.6	.3	25	
Ethyl acetate	ug/m3	77.4	81.0	5	25	
Ethylbenzene	ug/m3	ND	ND		25	
Hexachloro-1,3-butadiene	ug/m3	ND	ND		25	
m&p-Xylene	ug/m3	ND	ND		25	
Methyl-tert-butyl ether	ug/m3	ND	ND		25	
Methylene Chloride	ug/m3	ND	17.5J		25	
n-Heptane	ug/m3	ND	ND		25	
n-Hexane	ug/m3	26.4	25.9	2	25	
Naphthalene	ug/m3	ND	ND		25	
o-Xylene	ug/m3	ND	ND		25	
Propylene	ug/m3	ND	ND		25	
Styrene	ug/m3	ND	ND		25	
Tetrachloroethene	ug/m3	ND	ND		25	

Date: 03/29/2013 11:03 AM

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: CRC City of Rochester

Pace Project No.: 10223140

SAMPLE DUPLICATE: 1399400

Parameter	Units	10222805001 Result	Dup Result	RPD	Max RPD	Qualifiers
Tetrahydrofuran	ug/m3	ND	ND		25	
Toluene	ug/m3	47.6	48.3	1	25	
trans-1,2-Dichloroethene	ug/m3	ND	ND		25	
trans-1,3-Dichloropropene	ug/m3	ND	ND		25	
Trichloroethene	ug/m3	ND	ND		25	
Trichlorofluoromethane	ug/m3	ND	ND		25	
Vinyl acetate	ug/m3	ND	ND		25	
Vinyl chloride	ug/m3	ND	ND		25	

QUALIFIERS

Project: CRC City of Rochester

Pace Project No.: 10223140

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: 10223140001

[1] This result is reported from a serial dilution

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: CRC City of Rochester

Pace Project No.: 10223140

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10223140001	DPE-Exhaust-0836	TO-15	AIR/17018		



CHAIN-OF-CUSTODY / Analytical Request Document

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

10223 140

Section A Required Client Information: Company: Landmark Environmental Address: 2042 W. 98th Street Bloomington, MN 55431 Email To: jskramstad@landmarkenv.com Phone: 952-887-9601, ext 205 Fax: 952-887-9605	Section B Required Project Information: Report To: Jason Skramstad Copy To: Eric Gabrielson Purchase Order No.: Project Name: City of Rochester Project Number: CRC	Section C Invoice Information: Attention: Jason Skramstad Company Name: Landmark Environmental, LLC Address: 2042 W. 98th St., Bloomington, MN 55431 Pace Quote Reference: Pace Project Manager: Carolynne Trout Pace Profile #:	Page: 1 of 1 REGULATORY AGENCY <input type="checkbox"/> NPDES <input type="checkbox"/> GROUND WATER <input type="checkbox"/> DRINKING WATER <input type="checkbox"/> UST <input type="checkbox"/> RCRA <input type="checkbox"/> OTHER SITE <input type="checkbox"/> 3A <input type="checkbox"/> L <input type="checkbox"/> V <input type="checkbox"/> P LOCATION <input type="checkbox"/> JH <input type="checkbox"/> SC <input type="checkbox"/> VI <input type="checkbox"/> THER
Section D Required Client Information SAMPLE ID One Character per box. (A-Z, 0-9 / , -) IDs MUST BE UNIQUE Valid Matrix Codes DRINKING WATER WATER WASTE WATER PRODUCT SOIL/SOLID OIL AIR OTHER TISSUE	MATRIX CODE SAMPLE TYPE G+GRAB C-COMP COLLECTED COMPOSITE START DATE TIME COMPOSITE END/GRAB DATE TIME SAMPLE TEMP AT COLLECTION # OF CONTAINERS Preservatives Unpreserved H ₂ SO ₄ HNO ₃ HCl NaOH Na ₂ SO ₃ Methanol Other	Filtered (Y/N) Requested Ans:	Pace Project Number Lab ID: TO-15 X 100

Additional Comments:

REINQUIRED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
			Jason Skramstad	3-21-13	1550	Received on Y/N Custody Y/N Sealed Cooler Y/N Samples Intact Y/N

SAMPLER NAME AND SIGNATURE
 PRINT Name of SAMPLER: Eric Cabral / Scar
 SIGNATURE of SAMPLER: [Signature]
 DATE Signed (MM / DD / YY)



Document Name:
Air Sample Condition Upon Receipt
Document No.:
F-MN-A-106-rev.07

Document Revised: 28Jan2013
Page 1 of 1
Issuing Authority:
Pace Minnesota Quality Office

Air Sample Condition
Upon Receipt

Client Name:
Landmark Env

Project #: **WO# : 10223140**



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: _____

Temp. (TO17 and TO13 samples only) (°C): 10.0 Corrected Temp (°C): _____ Thermom. Used: B88A912167504 80512447 72337080
Temp should be above freezing to 6°C Correction Factor: _____ Date & Initials of Person Examining Contents: B.S. 2/13

Comments:

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

Canisters		Flow Controllers		Stand Alone G	
Sample Number	Can ID	Sample Number	Can ID	Sample Number	Can ID
<u>PE Exhaust</u>	<u>pace 0438</u>		<u>FC 0356</u>		

CLIENT NOTIFICATION/RESOLUTION
Person Contacted: _____ Date/Time: _____
Comments/Resolution: _____

Project Manager Review: [Signature] Date: 3/22/13

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)

February 06, 2013

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

RE: Project: City of Rochester
Pace Project No.: 10218863

Dear Mr. Skramstad:

Enclosed are the analytical results for sample(s) received by the laboratory on January 30, 2013. 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@pacelabs.com
Project Manager

Enclosures



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: City of Rochester

Pace Project No.: 10218863

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

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: City of Rochester

Pace Project No.: 10218863

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10218863001	AS-Influent	Water	01/30/13 08:00	01/30/13 16:15
10218863002	AS-Effluent	Water	01/30/13 08:03	01/30/13 16:15

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: City of Rochester
Pace Project No.: 10218863

Lab ID	Sample ID	Method	Analysts	Analytes Reported
10218863001	AS-Influent	EPA 624	SE	83
10218863002	AS-Effluent	EPA 624	SE	83

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: City of Rochester

Pace Project No.: 10218863

Sample: AS-Influent	Lab ID: 10218863001	Collected: 01/30/13 08:00	Received: 01/30/13 16:15	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		02/05/13 12:52	67-64-1	
Acrolein	ND ug/L		10.0	1		02/05/13 12:52	107-02-8	
Acrylonitrile	ND ug/L		10.0	1		02/05/13 12:52	107-13-1	
Allyl chloride	ND ug/L		4.0	1		02/05/13 12:52	107-05-1	
Benzene	ND ug/L		1.0	1		02/05/13 12:52	71-43-2	
Bromobenzene	ND ug/L		1.0	1		02/05/13 12:52	108-86-1	
Bromochloromethane	ND ug/L		1.0	1		02/05/13 12:52	74-97-5	
Bromodichloromethane	ND ug/L		1.0	1		02/05/13 12:52	75-27-4	
Bromoform	ND ug/L		4.0	1		02/05/13 12:52	75-25-2	
Bromomethane	ND ug/L		4.0	1		02/05/13 12:52	74-83-9	CL
2-Butanone (MEK)	ND ug/L		4.0	1		02/05/13 12:52	78-93-3	
n-Butylbenzene	ND ug/L		1.0	1		02/05/13 12:52	104-51-8	
sec-Butylbenzene	ND ug/L		1.0	1		02/05/13 12:52	135-98-8	
tert-Butylbenzene	ND ug/L		1.0	1		02/05/13 12:52	98-06-6	
Carbon disulfide	ND ug/L		1.0	1		02/05/13 12:52	75-15-0	
Carbon tetrachloride	ND ug/L		1.0	1		02/05/13 12:52	56-23-5	
Chlorobenzene	ND ug/L		1.0	1		02/05/13 12:52	108-90-7	
Chloroethane	ND ug/L		1.0	1		02/05/13 12:52	75-00-3	
2-Chloroethylvinyl ether	ND ug/L		10.0	1		02/05/13 12:52	110-75-8	M1
Chloroform	ND ug/L		1.0	1		02/05/13 12:52	67-66-3	
Chloromethane	ND ug/L		4.0	1		02/05/13 12:52	74-87-3	
Chloroprene	ND ug/L		1.0	1		02/05/13 12:52	126-99-8	
2-Chlorotoluene	ND ug/L		1.0	1		02/05/13 12:52	95-49-8	
4-Chlorotoluene	ND ug/L		1.0	1		02/05/13 12:52	106-43-4	
1,2-Dibromo-3-chloropropane	ND ug/L		4.0	1		02/05/13 12:52	96-12-8	
Dibromochloromethane	ND ug/L		1.0	1		02/05/13 12:52	124-48-1	
1,2-Dibromoethane (EDB)	ND ug/L		1.0	1		02/05/13 12:52	106-93-4	
Dibromomethane	ND ug/L		4.0	1		02/05/13 12:52	74-95-3	
1,2-Dichlorobenzene	ND ug/L		1.0	1		02/05/13 12:52	95-50-1	
1,3-Dichlorobenzene	ND ug/L		1.0	1		02/05/13 12:52	541-73-1	
1,4-Dichlorobenzene	ND ug/L		1.0	1		02/05/13 12:52	106-46-7	
Dichlorodifluoromethane	ND ug/L		1.0	1		02/05/13 12:52	75-71-8	
1,1-Dichloroethane	ND ug/L		1.0	1		02/05/13 12:52	75-34-3	
1,2-Dichloroethane	ND ug/L		1.0	1		02/05/13 12:52	107-06-2	
1,2-Dichloroethene (Total)	ND ug/L		2.0	1		02/05/13 12:52	540-59-0	
1,1-Dichloroethene	ND ug/L		1.0	1		02/05/13 12:52	75-35-4	
cis-1,2-Dichloroethene	ND ug/L		1.0	1		02/05/13 12:52	156-59-2	
trans-1,2-Dichloroethene	ND ug/L		1.0	1		02/05/13 12:52	156-60-5	
Dichlorofluoromethane	ND ug/L		1.0	1		02/05/13 12:52	75-43-4	
1,2-Dichloropropane	ND ug/L		4.0	1		02/05/13 12:52	78-87-5	
1,3-Dichloropropane	ND ug/L		1.0	1		02/05/13 12:52	142-28-9	
2,2-Dichloropropane	ND ug/L		4.0	1		02/05/13 12:52	594-20-7	
1,1-Dichloropropene	ND ug/L		1.0	1		02/05/13 12:52	563-58-6	
cis-1,3-Dichloropropene	ND ug/L		4.0	1		02/05/13 12:52	10061-01-5	
trans-1,3-Dichloropropene	ND ug/L		4.0	1		02/05/13 12:52	10061-02-6	
Diethyl ether (Ethyl ether)	ND ug/L		4.0	1		02/05/13 12:52	60-29-7	
Ethylbenzene	ND ug/L		1.0	1		02/05/13 12:52	100-41-4	

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REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: City of Rochester

Pace Project No.: 10218863

Sample: AS-Influent	Lab ID: 10218863001	Collected: 01/30/13 08:00	Received: 01/30/13 16:15	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		02/05/13 12:52	87-68-3	
2-Hexanone	ND ug/L		4.0	1		02/05/13 12:52	591-78-6	
Iodomethane	ND ug/L		4.0	1		02/05/13 12:52	74-88-4	CL
Isopropylbenzene (Cumene)	ND ug/L		1.0	1		02/05/13 12:52	98-82-8	
p-Isopropyltoluene	ND ug/L		1.0	1		02/05/13 12:52	99-87-6	
Methylene Chloride	ND ug/L		4.0	1		02/05/13 12:52	75-09-2	
2-Methylnaphthalene	ND ug/L		5.0	1		02/05/13 12:52	91-57-6	
4-Methyl-2-pentanone (MIBK)	ND ug/L		4.0	1		02/05/13 12:52	108-10-1	
Methyl-tert-butyl ether	ND ug/L		1.0	1		02/05/13 12:52	1634-04-4	
Naphthalene	ND ug/L		4.0	1		02/05/13 12:52	91-20-3	
n-Propylbenzene	ND ug/L		1.0	1		02/05/13 12:52	103-65-1	
Styrene	ND ug/L		1.0	1		02/05/13 12:52	100-42-5	
1,1,1,2-Tetrachloroethane	ND ug/L		1.0	1		02/05/13 12:52	630-20-6	
1,1,2,2-Tetrachloroethane	ND ug/L		1.0	1		02/05/13 12:52	79-34-5	
Tetrachloroethene	26.3 ug/L		1.0	1		02/05/13 12:52	127-18-4	
Tetrahydrofuran	ND ug/L		10.0	1		02/05/13 12:52	109-99-9	
Toluene	ND ug/L		1.0	1		02/05/13 12:52	108-88-3	
1,2,3-Trichlorobenzene	ND ug/L		1.0	1		02/05/13 12:52	87-61-6	
1,2,4-Trichlorobenzene	ND ug/L		1.0	1		02/05/13 12:52	120-82-1	
1,1,1-Trichloroethane	ND ug/L		1.0	1		02/05/13 12:52	71-55-6	
1,1,2-Trichloroethane	ND ug/L		1.0	1		02/05/13 12:52	79-00-5	
Trichloroethene	ND ug/L		1.0	1		02/05/13 12:52	79-01-6	
Trichlorofluoromethane	ND ug/L		1.0	1		02/05/13 12:52	75-69-4	
1,2,3-Trichloropropane	ND ug/L		4.0	1		02/05/13 12:52	96-18-4	
1,1,2-Trichlorotrifluoroethane	ND ug/L		1.0	1		02/05/13 12:52	76-13-1	
1,2,4-Trimethylbenzene	ND ug/L		1.0	1		02/05/13 12:52	95-63-6	
1,3,5-Trimethylbenzene	ND ug/L		1.0	1		02/05/13 12:52	108-67-8	
Vinyl acetate	ND ug/L		10.0	1		02/05/13 12:52	108-05-4	
Vinyl chloride	ND ug/L		0.40	1		02/05/13 12:52	75-01-4	
Xylene (Total)	ND ug/L		3.0	1		02/05/13 12:52	1330-20-7	
m&p-Xylene	ND ug/L		2.0	1		02/05/13 12:52	179601-23-1	
o-Xylene	ND ug/L		1.0	1		02/05/13 12:52	95-47-6	
Surrogates								
Dibromofluoromethane (S)	98 %		75-125	1		02/05/13 12:52	1868-53-7	
1,2-Dichloroethane-d4 (S)	98 %		75-125	1		02/05/13 12:52	17060-07-0	
Toluene-d8 (S)	99 %		75-125	1		02/05/13 12:52	2037-26-5	
4-Bromofluorobenzene (S)	99 %		75-125	1		02/05/13 12:52	460-00-4	

ANALYTICAL RESULTS

Project: City of Rochester

Pace Project No.: 10218863

Sample: AS-Effluent		Lab ID: 10218863002	Collected: 01/30/13 08:03	Received: 01/30/13 16:15	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		02/05/13 13:07	67-64-1		
Acrolein	ND	ug/L	10.0	1		02/05/13 13:07	107-02-8		
Acrylonitrile	ND	ug/L	10.0	1		02/05/13 13:07	107-13-1		
Allyl chloride	ND	ug/L	4.0	1		02/05/13 13:07	107-05-1		
Benzene	ND	ug/L	1.0	1		02/05/13 13:07	71-43-2		
Bromobenzene	ND	ug/L	1.0	1		02/05/13 13:07	108-86-1		
Bromochloromethane	ND	ug/L	1.0	1		02/05/13 13:07	74-97-5		
Bromodichloromethane	ND	ug/L	1.0	1		02/05/13 13:07	75-27-4		
Bromoform	ND	ug/L	4.0	1		02/05/13 13:07	75-25-2		
Bromomethane	ND	ug/L	4.0	1		02/05/13 13:07	74-83-9	CL	
2-Butanone (MEK)	ND	ug/L	4.0	1		02/05/13 13:07	78-93-3		
n-Butylbenzene	ND	ug/L	1.0	1		02/05/13 13:07	104-51-8		
sec-Butylbenzene	ND	ug/L	1.0	1		02/05/13 13:07	135-98-8		
tert-Butylbenzene	ND	ug/L	1.0	1		02/05/13 13:07	98-06-6		
Carbon disulfide	ND	ug/L	1.0	1		02/05/13 13:07	75-15-0		
Carbon tetrachloride	ND	ug/L	1.0	1		02/05/13 13:07	56-23-5		
Chlorobenzene	ND	ug/L	1.0	1		02/05/13 13:07	108-90-7		
Chloroethane	ND	ug/L	1.0	1		02/05/13 13:07	75-00-3		
2-Chloroethylvinyl ether	ND	ug/L	10.0	1		02/05/13 13:07	110-75-8		
Chloroform	ND	ug/L	1.0	1		02/05/13 13:07	67-66-3		
Chloromethane	ND	ug/L	4.0	1		02/05/13 13:07	74-87-3		
Chloroprene	ND	ug/L	1.0	1		02/05/13 13:07	126-99-8		
2-Chlorotoluene	ND	ug/L	1.0	1		02/05/13 13:07	95-49-8		
4-Chlorotoluene	ND	ug/L	1.0	1		02/05/13 13:07	106-43-4		
1,2-Dibromo-3-chloropropane	ND	ug/L	4.0	1		02/05/13 13:07	96-12-8		
Dibromochloromethane	ND	ug/L	1.0	1		02/05/13 13:07	124-48-1		
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		02/05/13 13:07	106-93-4		
Dibromomethane	ND	ug/L	4.0	1		02/05/13 13:07	74-95-3		
1,2-Dichlorobenzene	ND	ug/L	1.0	1		02/05/13 13:07	95-50-1		
1,3-Dichlorobenzene	ND	ug/L	1.0	1		02/05/13 13:07	541-73-1		
1,4-Dichlorobenzene	ND	ug/L	1.0	1		02/05/13 13:07	106-46-7		
Dichlorodifluoromethane	ND	ug/L	1.0	1		02/05/13 13:07	75-71-8		
1,1-Dichloroethane	ND	ug/L	1.0	1		02/05/13 13:07	75-34-3		
1,2-Dichloroethane	ND	ug/L	1.0	1		02/05/13 13:07	107-06-2		
1,2-Dichloroethene (Total)	ND	ug/L	2.0	1		02/05/13 13:07	540-59-0		
1,1-Dichloroethene	ND	ug/L	1.0	1		02/05/13 13:07	75-35-4		
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		02/05/13 13:07	156-59-2		
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		02/05/13 13:07	156-60-5		
Dichlorofluoromethane	ND	ug/L	1.0	1		02/05/13 13:07	75-43-4		
1,2-Dichloropropane	ND	ug/L	4.0	1		02/05/13 13:07	78-87-5		
1,3-Dichloropropane	ND	ug/L	1.0	1		02/05/13 13:07	142-28-9		
2,2-Dichloropropane	ND	ug/L	4.0	1		02/05/13 13:07	594-20-7		
1,1-Dichloropropene	ND	ug/L	1.0	1		02/05/13 13:07	563-58-6		
cis-1,3-Dichloropropene	ND	ug/L	4.0	1		02/05/13 13:07	10061-01-5		
trans-1,3-Dichloropropene	ND	ug/L	4.0	1		02/05/13 13:07	10061-02-6		
Diethyl ether (Ethyl ether)	ND	ug/L	4.0	1		02/05/13 13:07	60-29-7		
Ethylbenzene	ND	ug/L	1.0	1		02/05/13 13:07	100-41-4		

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REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: City of Rochester

Pace Project No.: 10218863

Sample: AS-Effluent		Lab ID: 10218863002	Collected: 01/30/13 08:03	Received: 01/30/13 16:15	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		02/05/13 13:07	87-68-3		
2-Hexanone	ND ug/L		4.0	1		02/05/13 13:07	591-78-6		
Iodomethane	ND ug/L		4.0	1		02/05/13 13:07	74-88-4	CL	
Isopropylbenzene (Cumene)	ND ug/L		1.0	1		02/05/13 13:07	98-82-8		
p-Isopropyltoluene	ND ug/L		1.0	1		02/05/13 13:07	99-87-6		
Methylene Chloride	ND ug/L		4.0	1		02/05/13 13:07	75-09-2		
2-Methylnaphthalene	ND ug/L		5.0	1		02/05/13 13:07	91-57-6		
4-Methyl-2-pentanone (MIBK)	ND ug/L		4.0	1		02/05/13 13:07	108-10-1		
Methyl-tert-butyl ether	ND ug/L		1.0	1		02/05/13 13:07	1634-04-4		
Naphthalene	ND ug/L		4.0	1		02/05/13 13:07	91-20-3		
n-Propylbenzene	ND ug/L		1.0	1		02/05/13 13:07	103-65-1		
Styrene	ND ug/L		1.0	1		02/05/13 13:07	100-42-5		
1,1,1,2-Tetrachloroethane	ND ug/L		1.0	1		02/05/13 13:07	630-20-6		
1,1,2,2-Tetrachloroethane	ND ug/L		1.0	1		02/05/13 13:07	79-34-5		
Tetrachloroethene	ND ug/L		1.0	1		02/05/13 13:07	127-18-4		
Tetrahydrofuran	ND ug/L		10.0	1		02/05/13 13:07	109-99-9		
Toluene	ND ug/L		1.0	1		02/05/13 13:07	108-88-3		
1,2,3-Trichlorobenzene	ND ug/L		1.0	1		02/05/13 13:07	87-61-6		
1,2,4-Trichlorobenzene	ND ug/L		1.0	1		02/05/13 13:07	120-82-1		
1,1,1-Trichloroethane	ND ug/L		1.0	1		02/05/13 13:07	71-55-6		
1,1,2-Trichloroethane	ND ug/L		1.0	1		02/05/13 13:07	79-00-5		
Trichloroethene	ND ug/L		1.0	1		02/05/13 13:07	79-01-6		
Trichlorofluoromethane	ND ug/L		1.0	1		02/05/13 13:07	75-69-4		
1,2,3-Trichloropropane	ND ug/L		4.0	1		02/05/13 13:07	96-18-4		
1,1,2-Trichlorotrifluoroethane	ND ug/L		1.0	1		02/05/13 13:07	76-13-1		
1,2,4-Trimethylbenzene	ND ug/L		1.0	1		02/05/13 13:07	95-63-6		
1,3,5-Trimethylbenzene	ND ug/L		1.0	1		02/05/13 13:07	108-67-8		
Vinyl acetate	ND ug/L		10.0	1		02/05/13 13:07	108-05-4		
Vinyl chloride	ND ug/L		0.40	1		02/05/13 13:07	75-01-4		
Xylene (Total)	ND ug/L		3.0	1		02/05/13 13:07	1330-20-7		
m&p-Xylene	ND ug/L		2.0	1		02/05/13 13:07	179601-23-1		
o-Xylene	ND ug/L		1.0	1		02/05/13 13:07	95-47-6		
Surrogates									
Dibromofluoromethane (S)	98 %		75-125	1		02/05/13 13:07	1868-53-7		
1,2-Dichloroethane-d4 (S)	98 %		75-125	1		02/05/13 13:07	17060-07-0		
Toluene-d8 (S)	99 %		75-125	1		02/05/13 13:07	2037-26-5		
4-Bromofluorobenzene (S)	98 %		75-125	1		02/05/13 13:07	460-00-4		

QUALITY CONTROL DATA

Project: City of Rochester

Pace Project No.: 10218863

QC Batch: MSV/22802

Analysis Method: EPA 624

QC Batch Method: EPA 624

Analysis Description: 624 MSV

Associated Lab Samples: 10218863001, 10218863002

METHOD BLANK: 1373270

Matrix: Water

Associated Lab Samples: 10218863001, 10218863002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	1.0	02/05/13 12:37	
1,1,1-Trichloroethane	ug/L	ND	1.0	02/05/13 12:37	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	02/05/13 12:37	
1,1,2-Trichloroethane	ug/L	ND	1.0	02/05/13 12:37	
1,1,2-Trichlorotrifluoroethane	ug/L	ND	1.0	02/05/13 12:37	
1,1-Dichloroethane	ug/L	ND	1.0	02/05/13 12:37	
1,1-Dichloroethene	ug/L	ND	1.0	02/05/13 12:37	
1,1-Dichloropropene	ug/L	ND	1.0	02/05/13 12:37	
1,2,3-Trichlorobenzene	ug/L	ND	1.0	02/05/13 12:37	
1,2,3-Trichloropropane	ug/L	ND	4.0	02/05/13 12:37	
1,2,4-Trichlorobenzene	ug/L	ND	1.0	02/05/13 12:37	
1,2,4-Trimethylbenzene	ug/L	ND	1.0	02/05/13 12:37	
1,2-Dibromo-3-chloropropane	ug/L	ND	4.0	02/05/13 12:37	
1,2-Dibromoethane (EDB)	ug/L	ND	1.0	02/05/13 12:37	
1,2-Dichlorobenzene	ug/L	ND	1.0	02/05/13 12:37	
1,2-Dichloroethane	ug/L	ND	1.0	02/05/13 12:37	
1,2-Dichloroethene (Total)	ug/L	ND	2.0	02/05/13 12:37	
1,2-Dichloropropane	ug/L	ND	4.0	02/05/13 12:37	
1,3,5-Trimethylbenzene	ug/L	ND	1.0	02/05/13 12:37	
1,3-Dichlorobenzene	ug/L	ND	1.0	02/05/13 12:37	
1,3-Dichloropropane	ug/L	ND	1.0	02/05/13 12:37	
1,4-Dichlorobenzene	ug/L	ND	1.0	02/05/13 12:37	
2,2-Dichloropropane	ug/L	ND	4.0	02/05/13 12:37	
2-Butanone (MEK)	ug/L	ND	4.0	02/05/13 12:37	
2-Chloroethylvinyl ether	ug/L	ND	10.0	02/05/13 12:37	
2-Chlorotoluene	ug/L	ND	1.0	02/05/13 12:37	
2-Hexanone	ug/L	ND	4.0	02/05/13 12:37	
2-Methylnaphthalene	ug/L	ND	5.0	02/05/13 12:37	
4-Chlorotoluene	ug/L	ND	1.0	02/05/13 12:37	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	4.0	02/05/13 12:37	
Acetone	ug/L	ND	25.0	02/05/13 12:37	
Acrolein	ug/L	ND	10.0	02/05/13 12:37	
Acrylonitrile	ug/L	ND	10.0	02/05/13 12:37	
Allyl chloride	ug/L	ND	4.0	02/05/13 12:37	
Benzene	ug/L	ND	1.0	02/05/13 12:37	
Bromobenzene	ug/L	ND	1.0	02/05/13 12:37	
Bromochloromethane	ug/L	ND	1.0	02/05/13 12:37	
Bromodichloromethane	ug/L	ND	1.0	02/05/13 12:37	
Bromoform	ug/L	ND	4.0	02/05/13 12:37	
Bromomethane	ug/L	ND	4.0	02/05/13 12:37	CL
Carbon disulfide	ug/L	ND	1.0	02/05/13 12:37	
Carbon tetrachloride	ug/L	ND	1.0	02/05/13 12:37	
Chlorobenzene	ug/L	ND	1.0	02/05/13 12:37	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: City of Rochester

Pace Project No.: 10218863

METHOD BLANK: 1373270

Matrix: Water

Associated Lab Samples: 10218863001, 10218863002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloroethane	ug/L	ND	1.0	02/05/13 12:37	
Chloroform	ug/L	ND	1.0	02/05/13 12:37	
Chloromethane	ug/L	ND	4.0	02/05/13 12:37	
Chloroprene	ug/L	ND	1.0	02/05/13 12:37	
cis-1,2-Dichloroethene	ug/L	ND	1.0	02/05/13 12:37	
cis-1,3-Dichloropropene	ug/L	ND	4.0	02/05/13 12:37	
Dibromochloromethane	ug/L	ND	1.0	02/05/13 12:37	
Dibromomethane	ug/L	ND	4.0	02/05/13 12:37	
Dichlorodifluoromethane	ug/L	ND	1.0	02/05/13 12:37	
Dichlorofluoromethane	ug/L	ND	1.0	02/05/13 12:37	
Diethyl ether (Ethyl ether)	ug/L	ND	4.0	02/05/13 12:37	
Ethylbenzene	ug/L	ND	1.0	02/05/13 12:37	
Hexachloro-1,3-butadiene	ug/L	ND	5.0	02/05/13 12:37	
Iodomethane	ug/L	ND	4.0	02/05/13 12:37	CL
Isopropylbenzene (Cumene)	ug/L	ND	1.0	02/05/13 12:37	
m&p-Xylene	ug/L	ND	2.0	02/05/13 12:37	
Methyl-tert-butyl ether	ug/L	ND	1.0	02/05/13 12:37	
Methylene Chloride	ug/L	ND	4.0	02/05/13 12:37	
n-Butylbenzene	ug/L	ND	1.0	02/05/13 12:37	
n-Propylbenzene	ug/L	ND	1.0	02/05/13 12:37	
Naphthalene	ug/L	ND	4.0	02/05/13 12:37	
o-Xylene	ug/L	ND	1.0	02/05/13 12:37	
p-Isopropyltoluene	ug/L	ND	1.0	02/05/13 12:37	
sec-Butylbenzene	ug/L	ND	1.0	02/05/13 12:37	
Styrene	ug/L	ND	1.0	02/05/13 12:37	
tert-Butylbenzene	ug/L	ND	1.0	02/05/13 12:37	
Tetrachloroethene	ug/L	ND	1.0	02/05/13 12:37	
Tetrahydrofuran	ug/L	ND	10.0	02/05/13 12:37	
Toluene	ug/L	ND	1.0	02/05/13 12:37	
trans-1,2-Dichloroethene	ug/L	ND	1.0	02/05/13 12:37	
trans-1,3-Dichloropropene	ug/L	ND	4.0	02/05/13 12:37	
Trichloroethene	ug/L	ND	1.0	02/05/13 12:37	
Trichlorofluoromethane	ug/L	ND	1.0	02/05/13 12:37	
Vinyl acetate	ug/L	ND	10.0	02/05/13 12:37	
Vinyl chloride	ug/L	ND	0.40	02/05/13 12:37	
Xylene (Total)	ug/L	ND	3.0	02/05/13 12:37	
1,2-Dichloroethane-d4 (S)	%	98	75-125	02/05/13 12:37	
4-Bromofluorobenzene (S)	%	99	75-125	02/05/13 12:37	
Dibromofluoromethane (S)	%	98	75-125	02/05/13 12:37	
Toluene-d8 (S)	%	99	75-125	02/05/13 12:37	

LABORATORY CONTROL SAMPLE: 1373271

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	47.6	95	75-125	

QUALITY CONTROL DATA

Project: City of Rochester

Pace Project No.: 10218863

LABORATORY CONTROL SAMPLE: 1373271

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	45.4	91	75-125	
1,1,2,2-Tetrachloroethane	ug/L	50	44.6	89	75-125	
1,1,2-Trichloroethane	ug/L	50	46.1	92	75-125	
1,1,2-Trichlorotrifluoroethane	ug/L	50	45.6	91	51-134	
1,1-Dichloroethane	ug/L	50	45.7	91	74-125	
1,1-Dichloroethene	ug/L	50	45.2	90	74-125	
1,1-Dichloropropene	ug/L	50	45.4	91	73-125	
1,2,3-Trichlorobenzene	ug/L	50	46.6	93	75-125	
1,2,3-Trichloropropane	ug/L	50	47.8	96	75-125	
1,2,4-Trichlorobenzene	ug/L	50	45.9	92	75-125	
1,2,4-Trimethylbenzene	ug/L	50	45.2	90	73-125	
1,2-Dibromo-3-chloropropane	ug/L	50	47.4	95	72-125	
1,2-Dibromoethane (EDB)	ug/L	50	47.0	94	75-125	
1,2-Dichlorobenzene	ug/L	50	44.8	90	75-125	
1,2-Dichloroethane	ug/L	50	45.6	91	75-125	
1,2-Dichloroethene (Total)	ug/L	100	91.5	91	70-130	
1,2-Dichloropropane	ug/L	50	46.4	93	75-125	
1,3,5-Trimethylbenzene	ug/L	50	45.0	90	75-125	
1,3-Dichlorobenzene	ug/L	50	44.4	89	75-125	
1,3-Dichloropropane	ug/L	50	46.0	92	75-125	
1,4-Dichlorobenzene	ug/L	50	43.9	88	74-125	
2,2-Dichloropropane	ug/L	50	48.7	97	70-131	
2-Butanone (MEK)	ug/L	50	50.6	101	61-125	
2-Chloroethylvinyl ether	ug/L	125	108	87	38-150	
2-Chlorotoluene	ug/L	50	43.2	86	71-125	
2-Hexanone	ug/L	50	45.9	92	71-125	
2-Methylnaphthalene	ug/L	25	23.0	92	45-141	
4-Chlorotoluene	ug/L	50	44.5	89	72-125	
4-Methyl-2-pentanone (MIBK)	ug/L	50	44.5	89	68-125	
Acetone	ug/L	125	111	89	75-125	
Acrolein	ug/L	500	460	92	59-128	
Acrylonitrile	ug/L	500	461	92	73-125	
Allyl chloride	ug/L	50	53.2	106	75-128	
Benzene	ug/L	50	43.4	87	74-125	
Bromobenzene	ug/L	50	44.3	89	75-125	
Bromochloromethane	ug/L	50	48.1	96	75-125	
Bromodichloromethane	ug/L	50	47.2	94	75-125	
Bromoform	ug/L	50	50.4	101	75-125	
Bromomethane	ug/L	50	20.7	41	40-150	CL
Carbon disulfide	ug/L	50	44.5	89	60-132	
Carbon tetrachloride	ug/L	50	48.3	97	75-125	
Chlorobenzene	ug/L	50	44.7	89	75-125	
Chloroethane	ug/L	50	47.0	94	68-128	
Chloroform	ug/L	50	44.9	90	75-125	
Chloromethane	ug/L	50	38.0	76	59-126	
Chloroprene	ug/L	50	45.1	90	69-132	
cis-1,2-Dichloroethene	ug/L	50	44.8	90	75-125	
cis-1,3-Dichloropropene	ug/L	50	47.2	94	75-125	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: City of Rochester

Pace Project No.: 10218863

LABORATORY CONTROL SAMPLE: 1373271

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Dibromochloromethane	ug/L	50	48.4	97	75-125	
Dibromomethane	ug/L	50	46.2	92	75-125	
Dichlorodifluoromethane	ug/L	50	44.2	88	43-135	
Dichlorofluoromethane	ug/L	50	46.0	92	72-125	
Diethyl ether (Ethyl ether)	ug/L	50	46.5	93	75-125	
Ethylbenzene	ug/L	50	43.5	87	75-125	
Hexachloro-1,3-butadiene	ug/L	25	25.6	102	68-127	
Iodomethane	ug/L	50	30.8	62	41-127	CL
Isopropylbenzene (Cumene)	ug/L	50	45.9	92	75-125	
m&p-Xylene	ug/L	100	92.2	92	74-125	
Methyl-tert-butyl ether	ug/L	50	44.6	89	75-125	
Methylene Chloride	ug/L	50	43.8	88	74-125	
n-Butylbenzene	ug/L	50	47.7	95	71-125	
n-Propylbenzene	ug/L	50	44.9	90	73-125	
Naphthalene	ug/L	50	44.1	88	73-125	
o-Xylene	ug/L	50	45.8	92	74-125	
p-Isopropyltoluene	ug/L	50	46.0	92	73-125	
sec-Butylbenzene	ug/L	50	45.7	91	71-125	
Styrene	ug/L	50	46.0	92	75-125	
tert-Butylbenzene	ug/L	50	45.1	90	73-125	
Tetrachloroethene	ug/L	50	46.3	93	72-125	
Tetrahydrofuran	ug/L	500	438	88	67-125	
Toluene	ug/L	50	45.6	91	75-125	
trans-1,2-Dichloroethene	ug/L	50	45.3	91	72-126	
trans-1,3-Dichloropropene	ug/L	50	46.6	93	75-125	
Trichloroethene	ug/L	50	46.5	93	75-125	
Trichlorofluoromethane	ug/L	50	47.1	94	71-125	
Vinyl acetate	ug/L	50	47.6	95	71-129	
Vinyl chloride	ug/L	50	45.6	91	69-128	
Xylene (Total)	ug/L	150	138	92	74-125	
1,2-Dichloroethane-d4 (S)	%			97	75-125	
4-Bromofluorobenzene (S)	%			99	75-125	
Dibromofluoromethane (S)	%			97	75-125	
Toluene-d8 (S)	%			100	75-125	

MATRIX SPIKE SAMPLE: 1373272

Parameter	Units	10218863001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	50	49.9	100	75-125	
1,1,1-Trichloroethane	ug/L	ND	50	50.4	101	75-134	
1,1,2,2-Tetrachloroethane	ug/L	ND	50	46.0	92	75-125	
1,1,2-Trichloroethane	ug/L	ND	50	48.3	97	75-125	
1,1,2-Trichlorotrifluoroethane	ug/L	ND	50	67.2	134	75-150	
1,1-Dichloroethane	ug/L	ND	50	49.2	98	75-129	
1,1-Dichloroethene	ug/L	ND	50	51.0	102	75-141	
1,1-Dichloropropene	ug/L	ND	50	50.8	102	75-135	
1,2,3-Trichlorobenzene	ug/L	ND	50	45.9	92	72-125	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: City of Rochester
Pace Project No.: 10218863

MATRIX SPIKE SAMPLE:		1373272						
Parameter	Units	10218863001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers	
1,2,3-Trichloropropane	ug/L	ND	50	49.0	98	75-125		
1,2,4-Trichlorobenzene	ug/L	ND	50	46.4	93	75-125		
1,2,4-Trimethylbenzene	ug/L	ND	50	48.0	96	75-125		
1,2-Dibromo-3-chloropropane	ug/L	ND	50	48.6	97	72-125		
1,2-Dibromoethane (EDB)	ug/L	ND	50	48.5	97	75-125		
1,2-Dichlorobenzene	ug/L	ND	50	46.3	93	75-125		
1,2-Dichloroethane	ug/L	ND	50	47.6	95	75-125		
1,2-Dichloroethene (Total)	ug/L	ND	100	97.0	97	70-130		
1,2-Dichloropropane	ug/L	ND	50	49.3	99	75-125		
1,3,5-Trimethylbenzene	ug/L	ND	50	47.9	96	75-125		
1,3-Dichlorobenzene	ug/L	ND	50	46.4	93	75-125		
1,3-Dichloropropane	ug/L	ND	50	47.9	96	75-125		
1,4-Dichlorobenzene	ug/L	ND	50	45.9	92	75-125		
2,2-Dichloropropane	ug/L	ND	50	53.3	107	72-145		
2-Butanone (MEK)	ug/L	ND	50	51.4	103	65-125		
2-Chloroethylvinyl ether	ug/L	ND	125	.84J	.7	30-150	M1	
2-Chlorotoluene	ug/L	ND	50	45.7	91	75-125		
2-Hexanone	ug/L	ND	50	46.0	92	70-125		
2-Methylnaphthalene	ug/L	ND	25	23.2	93	35-150		
4-Chlorotoluene	ug/L	ND	50	46.7	93	75-125		
4-Methyl-2-pentanone (MIBK)	ug/L	ND	50	45.9	92	72-125		
Acetone	ug/L	ND	125	119	92	75-125		
Acrolein	ug/L	ND	500	471	94	58-126		
Acrylonitrile	ug/L	ND	500	476	95	74-125		
Allyl chloride	ug/L	ND	50	55.8	112	75-138		
Benzene	ug/L	ND	50	47.0	94	75-129		
Bromobenzene	ug/L	ND	50	46.3	93	75-125		
Bromochloromethane	ug/L	ND	50	48.3	97	75-125		
Bromodichloromethane	ug/L	ND	50	49.9	100	75-125		
Bromoform	ug/L	ND	50	52.4	105	70-129		
Bromomethane	ug/L	ND	50	31.7	63	41-150	CL	
Carbon disulfide	ug/L	ND	50	48.4	97	69-143		
Carbon tetrachloride	ug/L	ND	50	54.8	110	75-137		
Chlorobenzene	ug/L	ND	50	47.8	96	75-125		
Chloroethane	ug/L	ND	50	51.5	103	75-137		
Chloroform	ug/L	ND	50	48.5	97	75-130		
Chloromethane	ug/L	ND	50	45.6	91	57-150		
Chloroprene	ug/L	ND	50	49.7	99	75-139		
cis-1,2-Dichloroethene	ug/L	ND	50	48.4	97	73-139		
cis-1,3-Dichloropropene	ug/L	ND	50	49.6	99	75-125		
Dibromochloromethane	ug/L	ND	50	51.0	102	75-125		
Dibromomethane	ug/L	ND	50	48.2	96	75-125		
Dichlorodifluoromethane	ug/L	ND	50	66.0	132	72-150		
Dichlorofluoromethane	ug/L	ND	50	49.6	99	75-131		
Diethyl ether (Ethyl ether)	ug/L	ND	50	48.5	97	75-125		
Ethylbenzene	ug/L	ND	50	47.0	94	75-125		
Hexachloro-1,3-butadiene	ug/L	ND	25	26.3	105	74-135		
Iodomethane	ug/L	ND	50	37.1	74	44-134	CL	

QUALITY CONTROL DATA

Project: City of Rochester
Pace Project No.: 10218863

MATRIX SPIKE SAMPLE: 1373272		10218863001	Spike	MS	MS	% Rec	
Parameter	Units	Result	Conc.	Result	% Rec	Limits	Qualifiers
Isopropylbenzene (Cumene)	ug/L	ND	50	49.6	99	75-128	
m&p-Xylene	ug/L	ND	100	100	100	75-125	
Methyl-tert-butyl ether	ug/L	ND	50	46.4	93	75-127	
Methylene Chloride	ug/L	ND	50	46.5	93	74-128	
n-Butylbenzene	ug/L	ND	50	49.7	99	75-130	
n-Propylbenzene	ug/L	ND	50	47.8	96	75-127	
Naphthalene	ug/L	ND	50	44.7	89	64-127	
o-Xylene	ug/L	ND	50	49.1	98	75-125	
p-Isopropyltoluene	ug/L	ND	50	48.5	97	75-126	
sec-Butylbenzene	ug/L	ND	50	48.8	98	75-128	
Styrene	ug/L	ND	50	48.7	97	70-129	
tert-Butylbenzene	ug/L	ND	50	47.9	96	75-125	
Tetrachloroethene	ug/L	26.3	50	76.9	101	75-132	
Tetrahydrofuran	ug/L	ND	500	459	92	68-125	
Toluene	ug/L	ND	50	49.0	98	75-125	
trans-1,2-Dichloroethene	ug/L	ND	50	49.0	98	75-140	
trans-1,3-Dichloropropene	ug/L	ND	50	48.6	97	75-125	
Trichloroethene	ug/L	ND	50	50.9	102	75-135	
Trichlorofluoromethane	ug/L	ND	50	58.9	118	75-148	
Vinyl acetate	ug/L	ND	50	49.3	99	58-133	
Vinyl chloride	ug/L	ND	50	50.2	100	75-144	
Xylene (Total)	ug/L	ND	150	149	99	75-125	
1,2-Dichloroethane-d4 (S)	%				97	75-125	
4-Bromofluorobenzene (S)	%				97	75-125	
Dibromofluoromethane (S)	%				98	75-125	
Toluene-d8 (S)	%				99	75-125	

SAMPLE DUPLICATE: 1373273

Parameter	Units	10218863002	Dup	RPD	Max	Qualifiers
		Result	Result		RPD	
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	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: City of Rochester

Pace Project No.: 10218863

SAMPLE DUPLICATE: 1373273

Parameter	Units	10218863002 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	.091J		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	20.3J		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	CL
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	2J		30	
Chloroprene	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	
Iodomethane	ug/L	ND	ND		30	CL
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	

QUALITY CONTROL DATA

Project: City of Rochester

Pace Project No.: 10218863

SAMPLE DUPLICATE: 1373273

Parameter	Units	10218863002 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	ND	.38J		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)	%	98	97	.6		
4-Bromofluorobenzene (S)	%	98	99	.9		
Dibromofluoromethane (S)	%	98	99	.08		
Toluene-d8 (S)	%	99	99	.4		

QUALIFIERS

Project: City of Rochester

Pace Project No.: 10218863

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

CL The continuing calibration for this compound is outside of Pace Analytical acceptance limits. The results may be biased low.

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

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: City of Rochester

Pace Project No.: 10218863

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10218863001	AS-Influent	EPA 624	MSV/22802		
10218863002	AS-Effluent	EPA 624	MSV/22802		



CHAIN-OF-CUSTODY / Analytical Request Document

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

1172

10218863

Section A
Required Client Information:
Company: Landmark Environmental
Address: 2042 W. 98th Street
Bloomington, MN 55431
Email To: jskramstad@landmarkenv.com
Phone: 952-887-9601, Fax: 952-887-9605 ext.205

Section B
Required Project Information:
Report To: Jason Skramstad
Copy To: Eric Gabrielson
Purchase Order No.:
Project Name: City of Rochester
Project Number: CRC

Section C
Invoice Information:
Attention: Jason Skramstad
Company Name: Landmark Environmental, LLC
Address: 2042 W. 98th St., Bloomington, MN 55431
Pace Quote Reference:
Pace Project Manager: Carolynne Trout
Pace Profile #:

REGULATORY AGENCY
 NPDES GROUND WATER DRINKING WATER
 UST RCRA THER
 SITE 3A 3B 3C 3D 3E 3F 3G 3H 3I 3J 3K 3L 3M 3N 3O 3P 3Q 3R 3S 3T 3U 3V 3W 3X 3Y 3Z
 LOCATION CH SC VI THER

ITEM #	Section D Required Client Information SAMPLE ID One Character per box. (A-Z, 0-9 / -) IDs MUST BE UNIQUE	Valid Matrix Codes MATRIX DRINKING WATER WASTE WATER WASTEWATER SLURRY SOLID OIL WIRE CABLE OTHER TISSUE	CODE DW WT WW WS SL OIL WP AR OP TS	SAMPLE TYPE G-RAB C-COMP	COLLECTED		# OF CONTAINERS	PRESERVATIVES Unpreserved H ₂ SO ₄ HNO ₃ HCl NaOH Na ₂ S ₂ O ₃ Methanol Other	Requested Ani	Pace Project Number Lab I.D.	
					COMPOSITE START	COMPOSITE END/GRAB					
	DATE	TIME	DATE	TIME	SAMPLE TEMP AT COLLECTION						
1	A S I n f i l u e n t					1/30/13	8:00	3		X	
2	A S E f f l u e n t					1/30/13	8:03	3		X	
3											
4											
5											
6											
6											
7											
8											

Additional Comments:

RELINQUISHED BY / AFFILIATION: *[Signature]* DATE: 1/30/13 TIME: 1:05 PM

ACCEPTED BY / AFFILIATION: *[Signature]* DATE: 1/30/13 TIME: 3:00 PM

SAMPLER NAME AND SIGNATURE: *[Signature]*
 PRINT Name of SAMPLER: Eric Gabrielson
 SIGNATURE of SAMPLER: *[Signature]* DATE Signed (MM / DD / YY): 1/30/13

Sample Condition Upon Receipt

Client Name: LANDMARK Project #: _____

WO# : 10218863



10218863

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

Thermom. Used: 888A912167504 80512447 72337080 Type of Ice: Wet Blue None Samples on ice, cooling process has begun

Cooler Temp Read (°C): 2.5 Cooler Temp Corrected (°C): 3.0 Biological Tissue Frozen? Yes No
 Temp should be above freezing to 6°C Correction Factor: _____ Date and Initials of Person Examining Contents: oe 1/30/13

Comments:

Chain of Custody Present?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.	
Chain of Custody Filled Out?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.	
Chain of Custody Relinquished?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	3.	
Sampler Name and/or Signature on COC?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.	
Samples Arrived within Hold Time?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5.	
Short Hold Time Analysis (<72 hr)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	6.	
Rush Turn Around Time Requested?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	7.	
Sufficient Volume?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	8.	
Correct Containers Used?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.	
-Pace Containers Used?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A		
Containers Intact?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	10.	
Filtered Volume Received for Dissolved Tests?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11.	
Sample Labels Match COC?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	12.	
-Includes Date/Time/ID/Analysis Matrix: <u>WA</u>			
All containers needing acid/base preservation have been checked? Noncompliances are noted in 13.	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	13.	<input type="checkbox"/> HNO ₃ <input type="checkbox"/> H ₂ SO ₄ <input type="checkbox"/> NaOH <input type="checkbox"/> HCl
All containers needing preservation are found to be in compliance with EPA recommendation? (HNO ₃ , H ₂ SO ₄ , HCl<2; NaOH>12)	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A		Sample #
Exceptions: VOA, Coliform, TOC, Oil and Grease, WI-DRO (water)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		Initial when completed: <u>oe 1/30/13</u> Lot # of added preservative:
Headspace in VOA Vials (>6mm)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	14.	
Trip Blank Present?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	15.	
Trip Blank Custody Seals Present?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> 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: CDW

Date: 1/31/13

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)

March 05, 2013

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

RE: Project: CRC City of Rochester
Pace Project No.: 10221059

Dear Mr. Skramstad:

Enclosed are the analytical results for sample(s) received by the laboratory on February 26, 2013. 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@pacelabs.com
Project Manager

Enclosures



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: CRC City of Rochester

Pace Project No.: 10221059

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

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: CRC City of Rochester
Pace Project No.: 10221059

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10221059001	AS-Influent	Water	02/25/13 15:50	02/26/13 14:18
10221059002	AS-Effluent	Water	02/25/13 15:55	02/26/13 14:18

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: CRC City of Rochester

Pace Project No.: 10221059

Lab ID	Sample ID	Method	Analysts	Analytes Reported
10221059001	AS-Influent	EPA 624	DJT	74
10221059002	AS-Effluent	EPA 624	DJT	74

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: CRC City of Rochester

Pace Project No.: 10221059

Sample: AS-Influent		Lab ID: 10221059001	Collected: 02/25/13 15:50	Received: 02/26/13 14:18	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
624 MSV		Analytical Method: EPA 624							
Acetone	60.3 ug/L		20.0	1		03/04/13 18:57	67-64-1		
Allyl chloride	ND ug/L		4.0	1		03/04/13 18:57	107-05-1		
Benzene	ND ug/L		1.0	1		03/04/13 18:57	71-43-2		
Bromobenzene	ND ug/L		1.0	1		03/04/13 18:57	108-86-1		
Bromochloromethane	ND ug/L		1.0	1		03/04/13 18:57	74-97-5		
Bromodichloromethane	ND ug/L		1.0	1		03/04/13 18:57	75-27-4		
Bromoform	ND ug/L		4.0	1		03/04/13 18:57	75-25-2		
Bromomethane	ND ug/L		10.0	1		03/04/13 18:57	74-83-9		
2-Butanone (MEK)	ND ug/L		5.0	1		03/04/13 18:57	78-93-3		
n-Butylbenzene	ND ug/L		1.0	1		03/04/13 18:57	104-51-8		
sec-Butylbenzene	ND ug/L		1.0	1		03/04/13 18:57	135-98-8		
tert-Butylbenzene	ND ug/L		1.0	1		03/04/13 18:57	98-06-6		
Carbon tetrachloride	ND ug/L		1.0	1		03/04/13 18:57	56-23-5		
Chlorobenzene	ND ug/L		1.0	1		03/04/13 18:57	108-90-7		
Chloroethane	ND ug/L		1.0	1		03/04/13 18:57	75-00-3		
2-Chloroethylvinyl ether	ND ug/L		10.0	1		03/04/13 18:57	110-75-8	M1	
Chloroform	ND ug/L		1.0	1		03/04/13 18:57	67-66-3		
Chloromethane	ND ug/L		4.0	1		03/04/13 18:57	74-87-3		
2-Chlorotoluene	ND ug/L		1.0	1		03/04/13 18:57	95-49-8		
4-Chlorotoluene	ND ug/L		1.0	1		03/04/13 18:57	106-43-4		
1,2-Dibromo-3-chloropropane	ND ug/L		4.0	1		03/04/13 18:57	96-12-8		
Dibromochloromethane	ND ug/L		1.0	1		03/04/13 18:57	124-48-1		
1,2-Dibromoethane (EDB)	ND ug/L		1.0	1		03/04/13 18:57	106-93-4		
Dibromomethane	ND ug/L		4.0	1		03/04/13 18:57	74-95-3		
1,2-Dichlorobenzene	ND ug/L		1.0	1		03/04/13 18:57	95-50-1		
1,3-Dichlorobenzene	ND ug/L		1.0	1		03/04/13 18:57	541-73-1		
1,4-Dichlorobenzene	ND ug/L		1.0	1		03/04/13 18:57	106-46-7		
Dichlorodifluoromethane	ND ug/L		1.0	1		03/04/13 18:57	75-71-8		
1,1-Dichloroethane	ND ug/L		1.0	1		03/04/13 18:57	75-34-3		
1,2-Dichloroethane	ND ug/L		1.0	1		03/04/13 18:57	107-06-2		
1,1-Dichloroethene	ND ug/L		1.0	1		03/04/13 18:57	75-35-4		
cis-1,2-Dichloroethene	ND ug/L		1.0	1		03/04/13 18:57	156-59-2		
trans-1,2-Dichloroethene	ND ug/L		1.0	1		03/04/13 18:57	156-60-5		
Dichlorofluoromethane	ND ug/L		1.0	1		03/04/13 18:57	75-43-4		
1,2-Dichloropropane	ND ug/L		4.0	1		03/04/13 18:57	78-87-5		
1,3-Dichloropropane	ND ug/L		1.0	1		03/04/13 18:57	142-28-9		
2,2-Dichloropropane	ND ug/L		4.0	1		03/04/13 18:57	594-20-7		
1,1-Dichloropropene	ND ug/L		1.0	1		03/04/13 18:57	563-58-6		
cis-1,3-Dichloropropene	ND ug/L		4.0	1		03/04/13 18:57	10061-01-5		
trans-1,3-Dichloropropene	ND ug/L		4.0	1		03/04/13 18:57	10061-02-6		
Diethyl ether (Ethyl ether)	ND ug/L		4.0	1		03/04/13 18:57	60-29-7		
Ethylbenzene	ND ug/L		1.0	1		03/04/13 18:57	100-41-4		
Hexachloro-1,3-butadiene	ND ug/L		5.0	1		03/04/13 18:57	87-68-3		
Isopropylbenzene (Cumene)	ND ug/L		1.0	1		03/04/13 18:57	98-82-8		
p-Isopropyltoluene	ND ug/L		1.0	1		03/04/13 18:57	99-87-6		
Methylene Chloride	ND ug/L		4.0	1		03/04/13 18:57	75-09-2		
4-Methyl-2-pentanone (MIBK)	ND ug/L		5.0	1		03/04/13 18:57	108-10-1		

Date: 03/05/2013 03:14 PM

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: CRC City of Rochester

Pace Project No.: 10221059

Sample: AS-Influent		Lab ID: 10221059001	Collected: 02/25/13 15:50	Received: 02/26/13 14:18	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		03/04/13 18:57	1634-04-4		
Naphthalene	ND	ug/L	4.0	1		03/04/13 18:57	91-20-3		
n-Propylbenzene	ND	ug/L	1.0	1		03/04/13 18:57	103-65-1		
Styrene	ND	ug/L	1.0	1		03/04/13 18:57	100-42-5		
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		03/04/13 18:57	630-20-6		
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		03/04/13 18:57	79-34-5		
Tetrachloroethene	35.4	ug/L	1.0	1		03/04/13 18:57	127-18-4	M1	
Tetrahydrofuran	ND	ug/L	10.0	1		03/04/13 18:57	109-99-9		
Toluene	ND	ug/L	1.0	1		03/04/13 18:57	108-88-3		
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		03/04/13 18:57	87-61-6		
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		03/04/13 18:57	120-82-1		
1,1,1-Trichloroethane	ND	ug/L	1.0	1		03/04/13 18:57	71-55-6		
1,1,2-Trichloroethane	ND	ug/L	1.0	1		03/04/13 18:57	79-00-5		
Trichloroethene	ND	ug/L	1.0	1		03/04/13 18:57	79-01-6		
Trichlorofluoromethane	ND	ug/L	1.0	1		03/04/13 18:57	75-69-4		
1,2,3-Trichloropropane	ND	ug/L	4.0	1		03/04/13 18:57	96-18-4		
1,1,2-Trichlorotrifluoroethane	ND	ug/L	1.0	1		03/04/13 18:57	76-13-1		
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1		03/04/13 18:57	95-63-6		
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1		03/04/13 18:57	108-67-8		
Vinyl chloride	ND	ug/L	0.40	1		03/04/13 18:57	75-01-4		
Xylene (Total)	ND	ug/L	3.0	1		03/04/13 18:57	1330-20-7		
m&p-Xylene	ND	ug/L	2.0	1		03/04/13 18:57	179601-23-1		
o-Xylene	ND	ug/L	1.0	1		03/04/13 18:57	95-47-6		
Surrogates									
Dibromofluoromethane (S)	93 %		75-125	1		03/04/13 18:57	1868-53-7		
1,2-Dichloroethane-d4 (S)	96 %		75-125	1		03/04/13 18:57	17060-07-0		
Toluene-d8 (S)	97 %		75-125	1		03/04/13 18:57	2037-26-5		
4-Bromofluorobenzene (S)	97 %		75-125	1		03/04/13 18:57	460-00-4		

Sample: AS-Effluent		Lab ID: 10221059002	Collected: 02/25/13 15:55	Received: 02/26/13 14:18	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
624 MSV		Analytical Method: EPA 624							
Acetone	114	ug/L	20.0	1		03/04/13 17:44	67-64-1		
Allyl chloride	ND	ug/L	4.0	1		03/04/13 17:44	107-05-1		
Benzene	ND	ug/L	1.0	1		03/04/13 17:44	71-43-2		
Bromobenzene	ND	ug/L	1.0	1		03/04/13 17:44	108-86-1		
Bromochloromethane	ND	ug/L	1.0	1		03/04/13 17:44	74-97-5		
Bromodichloromethane	ND	ug/L	1.0	1		03/04/13 17:44	75-27-4		
Bromoform	ND	ug/L	4.0	1		03/04/13 17:44	75-25-2		
Bromomethane	ND	ug/L	10.0	1		03/04/13 17:44	74-83-9		
2-Butanone (MEK)	ND	ug/L	5.0	1		03/04/13 17:44	78-93-3		
n-Butylbenzene	ND	ug/L	1.0	1		03/04/13 17:44	104-51-8		
sec-Butylbenzene	ND	ug/L	1.0	1		03/04/13 17:44	135-98-8		
tert-Butylbenzene	ND	ug/L	1.0	1		03/04/13 17:44	98-06-6		

Date: 03/05/2013 03:14 PM

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: CRC City of Rochester

Pace Project No.: 10221059

Sample: AS-Effluent		Lab ID: 10221059002	Collected: 02/25/13 15:55	Received: 02/26/13 14:18	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		03/04/13 17:44	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		03/04/13 17:44	108-90-7	
Chloroethane	ND	ug/L	1.0	1		03/04/13 17:44	75-00-3	
2-Chloroethylvinyl ether	ND	ug/L	10.0	1		03/04/13 17:44	110-75-8	
Chloroform	ND	ug/L	1.0	1		03/04/13 17:44	67-66-3	
Chloromethane	ND	ug/L	4.0	1		03/04/13 17:44	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		03/04/13 17:44	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		03/04/13 17:44	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	4.0	1		03/04/13 17:44	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		03/04/13 17:44	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		03/04/13 17:44	106-93-4	
Dibromomethane	ND	ug/L	4.0	1		03/04/13 17:44	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		03/04/13 17:44	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		03/04/13 17:44	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		03/04/13 17:44	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		03/04/13 17:44	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		03/04/13 17:44	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		03/04/13 17:44	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		03/04/13 17:44	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		03/04/13 17:44	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		03/04/13 17:44	156-60-5	
Dichlorofluoromethane	ND	ug/L	1.0	1		03/04/13 17:44	75-43-4	
1,2-Dichloropropane	ND	ug/L	4.0	1		03/04/13 17:44	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		03/04/13 17:44	142-28-9	
2,2-Dichloropropane	ND	ug/L	4.0	1		03/04/13 17:44	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		03/04/13 17:44	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	4.0	1		03/04/13 17:44	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	4.0	1		03/04/13 17:44	10061-02-6	
Diethyl ether (Ethyl ether)	ND	ug/L	4.0	1		03/04/13 17:44	60-29-7	
Ethylbenzene	ND	ug/L	1.0	1		03/04/13 17:44	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	5.0	1		03/04/13 17:44	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		03/04/13 17:44	98-82-8	
p-Isopropyltoluene	ND	ug/L	1.0	1		03/04/13 17:44	99-87-6	
Methylene Chloride	ND	ug/L	4.0	1		03/04/13 17:44	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		03/04/13 17:44	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		03/04/13 17:44	1634-04-4	
Naphthalene	ND	ug/L	4.0	1		03/04/13 17:44	91-20-3	
n-Propylbenzene	ND	ug/L	1.0	1		03/04/13 17:44	103-65-1	
Styrene	ND	ug/L	1.0	1		03/04/13 17:44	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		03/04/13 17:44	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		03/04/13 17:44	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		03/04/13 17:44	127-18-4	
Tetrahydrofuran	ND	ug/L	10.0	1		03/04/13 17:44	109-99-9	
Toluene	ND	ug/L	1.0	1		03/04/13 17:44	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		03/04/13 17:44	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		03/04/13 17:44	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		03/04/13 17:44	71-55-6	

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ANALYTICAL RESULTS

Project: CRC City of Rochester

Pace Project No.: 10221059

Sample: AS-Effluent		Lab ID: 10221059002	Collected: 02/25/13 15:55	Received: 02/26/13 14:18	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		03/04/13 17:44	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		03/04/13 17:44	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		03/04/13 17:44	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	4.0	1		03/04/13 17:44	96-18-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/L	1.0	1		03/04/13 17:44	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1		03/04/13 17:44	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1		03/04/13 17:44	108-67-8	
Vinyl chloride	ND	ug/L	0.40	1		03/04/13 17:44	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		03/04/13 17:44	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		03/04/13 17:44	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		03/04/13 17:44	95-47-6	
Surrogates								
Dibromofluoromethane (S)	93 %		75-125	1		03/04/13 17:44	1868-53-7	
1,2-Dichloroethane-d4 (S)	95 %		75-125	1		03/04/13 17:44	17060-07-0	
Toluene-d8 (S)	99 %		75-125	1		03/04/13 17:44	2037-26-5	
4-Bromofluorobenzene (S)	98 %		75-125	1		03/04/13 17:44	460-00-4	

QUALITY CONTROL DATA

Project: CRC City of Rochester

Pace Project No.: 10221059

QC Batch: MSV/22968 Analysis Method: EPA 624
QC Batch Method: EPA 624 Analysis Description: 624 MSV
Associated Lab Samples: 10221059001, 10221059002

METHOD BLANK: 1385719 Matrix: Water

Associated Lab Samples: 10221059001, 10221059002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	1.0	03/04/13 12:03	
1,1,1-Trichloroethane	ug/L	ND	1.0	03/04/13 12:03	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	03/04/13 12:03	
1,1,2-Trichloroethane	ug/L	ND	1.0	03/04/13 12:03	
1,1,2-Trichlorotrifluoroethane	ug/L	ND	1.0	03/04/13 12:03	
1,1-Dichloroethane	ug/L	ND	1.0	03/04/13 12:03	
1,1-Dichloroethene	ug/L	ND	1.0	03/04/13 12:03	
1,1-Dichloropropene	ug/L	ND	1.0	03/04/13 12:03	
1,2,3-Trichlorobenzene	ug/L	ND	1.0	03/04/13 12:03	
1,2,3-Trichloropropane	ug/L	ND	4.0	03/04/13 12:03	
1,2,4-Trichlorobenzene	ug/L	ND	1.0	03/04/13 12:03	
1,2,4-Trimethylbenzene	ug/L	ND	1.0	03/04/13 12:03	
1,2-Dibromo-3-chloropropane	ug/L	ND	4.0	03/04/13 12:03	
1,2-Dibromoethane (EDB)	ug/L	ND	1.0	03/04/13 12:03	
1,2-Dichlorobenzene	ug/L	ND	1.0	03/04/13 12:03	
1,2-Dichloroethane	ug/L	ND	1.0	03/04/13 12:03	
1,2-Dichloropropane	ug/L	ND	4.0	03/04/13 12:03	
1,3,5-Trimethylbenzene	ug/L	ND	1.0	03/04/13 12:03	
1,3-Dichlorobenzene	ug/L	ND	1.0	03/04/13 12:03	
1,3-Dichloropropane	ug/L	ND	1.0	03/04/13 12:03	
1,4-Dichlorobenzene	ug/L	ND	1.0	03/04/13 12:03	
2,2-Dichloropropane	ug/L	ND	4.0	03/04/13 12:03	
2-Butanone (MEK)	ug/L	ND	5.0	03/04/13 12:03	
2-Chloroethylvinyl ether	ug/L	ND	10.0	03/04/13 12:03	
2-Chlorotoluene	ug/L	ND	1.0	03/04/13 12:03	
4-Chlorotoluene	ug/L	ND	1.0	03/04/13 12:03	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	5.0	03/04/13 12:03	
Acetone	ug/L	ND	20.0	03/04/13 12:03	
Allyl chloride	ug/L	ND	4.0	03/04/13 12:03	
Benzene	ug/L	ND	1.0	03/04/13 12:03	
Bromobenzene	ug/L	ND	1.0	03/04/13 12:03	
Bromochloromethane	ug/L	ND	1.0	03/04/13 12:03	
Bromodichloromethane	ug/L	ND	1.0	03/04/13 12:03	
Bromoform	ug/L	ND	4.0	03/04/13 12:03	
Bromomethane	ug/L	ND	10.0	03/04/13 12:03	
Carbon tetrachloride	ug/L	ND	1.0	03/04/13 12:03	
Chlorobenzene	ug/L	ND	1.0	03/04/13 12:03	
Chloroethane	ug/L	ND	1.0	03/04/13 12:03	
Chloroform	ug/L	ND	1.0	03/04/13 12:03	
Chloromethane	ug/L	ND	4.0	03/04/13 12:03	
cis-1,2-Dichloroethene	ug/L	ND	1.0	03/04/13 12:03	
cis-1,3-Dichloropropene	ug/L	ND	4.0	03/04/13 12:03	
Dibromochloromethane	ug/L	ND	1.0	03/04/13 12:03	

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QUALITY CONTROL DATA

Project: CRC City of Rochester

Pace Project No.: 10221059

METHOD BLANK: 1385719

Matrix: Water

Associated Lab Samples: 10221059001, 10221059002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Dibromomethane	ug/L	ND	4.0	03/04/13 12:03	
Dichlorodifluoromethane	ug/L	ND	1.0	03/04/13 12:03	
Dichlorofluoromethane	ug/L	ND	1.0	03/04/13 12:03	
Diethyl ether (Ethyl ether)	ug/L	ND	4.0	03/04/13 12:03	
Ethylbenzene	ug/L	ND	1.0	03/04/13 12:03	
Hexachloro-1,3-butadiene	ug/L	ND	5.0	03/04/13 12:03	
Isopropylbenzene (Cumene)	ug/L	ND	1.0	03/04/13 12:03	
m&p-Xylene	ug/L	ND	2.0	03/04/13 12:03	
Methyl-tert-butyl ether	ug/L	ND	1.0	03/04/13 12:03	
Methylene Chloride	ug/L	ND	4.0	03/04/13 12:03	
n-Butylbenzene	ug/L	ND	1.0	03/04/13 12:03	
n-Propylbenzene	ug/L	ND	1.0	03/04/13 12:03	
Naphthalene	ug/L	ND	4.0	03/04/13 12:03	
o-Xylene	ug/L	ND	1.0	03/04/13 12:03	
p-Isopropyltoluene	ug/L	ND	1.0	03/04/13 12:03	
sec-Butylbenzene	ug/L	ND	1.0	03/04/13 12:03	
Styrene	ug/L	ND	1.0	03/04/13 12:03	
tert-Butylbenzene	ug/L	ND	1.0	03/04/13 12:03	
Tetrachloroethene	ug/L	ND	1.0	03/04/13 12:03	
Tetrahydrofuran	ug/L	ND	10.0	03/04/13 12:03	
Toluene	ug/L	ND	1.0	03/04/13 12:03	
trans-1,2-Dichloroethene	ug/L	ND	1.0	03/04/13 12:03	
trans-1,3-Dichloropropene	ug/L	ND	4.0	03/04/13 12:03	
Trichloroethene	ug/L	ND	1.0	03/04/13 12:03	
Trichlorofluoromethane	ug/L	ND	1.0	03/04/13 12:03	
Vinyl chloride	ug/L	ND	0.40	03/04/13 12:03	
Xylene (Total)	ug/L	ND	3.0	03/04/13 12:03	
1,2-Dichloroethane-d4 (S)	%	89	75-125	03/04/13 12:03	
4-Bromofluorobenzene (S)	%	98	75-125	03/04/13 12:03	
Dibromofluoromethane (S)	%	87	75-125	03/04/13 12:03	
Toluene-d8 (S)	%	98	75-125	03/04/13 12:03	

LABORATORY CONTROL SAMPLE: 1385720

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	20	22.9	114	75-125	
1,1,1-Trichloroethane	ug/L	20	19.6	98	75-125	
1,1,2,2-Tetrachloroethane	ug/L	20	23.0	115	75-125	
1,1,2-Trichloroethane	ug/L	20	22.6	113	75-125	
1,1,2-Trichlorotrifluoroethane	ug/L	20	19.3	96	51-134	
1,1-Dichloroethane	ug/L	20	19.3	96	74-125	
1,1-Dichloroethene	ug/L	20	19.7	99	74-125	
1,1-Dichloropropene	ug/L	20	19.5	98	73-125	
1,2,3-Trichlorobenzene	ug/L	20	21.9	109	75-125	
1,2,3-Trichloropropane	ug/L	20	22.2	111	75-125	

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QUALITY CONTROL DATA

Project: CRC City of Rochester

Pace Project No.: 10221059

LABORATORY CONTROL SAMPLE: 1385720

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,4-Trichlorobenzene	ug/L	20	22.1	111	75-125	
1,2,4-Trimethylbenzene	ug/L	20	22.8	114	73-125	
1,2-Dibromo-3-chloropropane	ug/L	50	57.7	115	72-125	
1,2-Dibromoethane (EDB)	ug/L	20	23.2	116	75-125	
1,2-Dichlorobenzene	ug/L	20	22.1	111	75-125	
1,2-Dichloroethane	ug/L	20	19.5	97	75-125	
1,2-Dichloropropane	ug/L	20	22.5	112	75-125	
1,3,5-Trimethylbenzene	ug/L	20	22.3	112	75-125	
1,3-Dichlorobenzene	ug/L	20	22.3	112	75-125	
1,3-Dichloropropane	ug/L	20	21.9	110	75-125	
1,4-Dichlorobenzene	ug/L	20	22.3	112	74-125	
2,2-Dichloropropane	ug/L	20	19.3	96	70-131	
2-Butanone (MEK)	ug/L	100	98.7	99	61-125	
2-Chloroethylvinyl ether	ug/L	50	51.5	103	38-150	
2-Chlorotoluene	ug/L	20	22.0	110	71-125	
4-Chlorotoluene	ug/L	20	22.0	110	72-125	
4-Methyl-2-pentanone (MIBK)	ug/L	100	115	115	68-125	
Acetone	ug/L	100	111	111	75-125	
Allyl chloride	ug/L	20	19.8	99	75-128	
Benzene	ug/L	20	19.6	98	74-125	
Bromobenzene	ug/L	20	21.6	108	75-125	
Bromochloromethane	ug/L	20	20.9	104	75-125	
Bromodichloromethane	ug/L	20	22.7	114	75-125	
Bromoform	ug/L	20	24.3	122	75-125	
Bromomethane	ug/L	20	22.7	113	40-150	
Carbon tetrachloride	ug/L	20	19.5	98	75-125	
Chlorobenzene	ug/L	20	22.3	111	75-125	
Chloroethane	ug/L	20	20.2	101	68-128	
Chloroform	ug/L	20	19.7	99	75-125	
Chloromethane	ug/L	20	20.1	101	59-126	
cis-1,2-Dichloroethene	ug/L	20	19.1	95	75-125	
cis-1,3-Dichloropropene	ug/L	20	23.3	117	75-125	
Dibromochloromethane	ug/L	20	23.9	120	75-125	
Dibromomethane	ug/L	20	21.9	110	75-125	
Dichlorodifluoromethane	ug/L	20	18.8	94	43-135	
Dichlorofluoromethane	ug/L	20	19.0	95	72-125	
Diethyl ether (Ethyl ether)	ug/L	20	19.7	98	75-125	
Ethylbenzene	ug/L	20	22.5	113	75-125	
Hexachloro-1,3-butadiene	ug/L	20	22.3	112	68-127	
Isopropylbenzene (Cumene)	ug/L	20	23.8	119	75-125	
m&p-Xylene	ug/L	40	46.5	116	74-125	
Methyl-tert-butyl ether	ug/L	20	19.2	96	75-125	
Methylene Chloride	ug/L	20	18.5	92	74-125	
n-Butylbenzene	ug/L	20	23.6	118	71-125	
n-Propylbenzene	ug/L	20	23.1	115	73-125	
Naphthalene	ug/L	20	22.8	114	73-125	
o-Xylene	ug/L	20	23.2	116	74-125	
p-Isopropyltoluene	ug/L	20	23.2	116	73-125	

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QUALITY CONTROL DATA

Project: CRC City of Rochester

Pace Project No.: 10221059

LABORATORY CONTROL SAMPLE: 1385720

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
sec-Butylbenzene	ug/L	20	23.2	116	71-125	
Styrene	ug/L	20	24.0	120	75-125	
tert-Butylbenzene	ug/L	20	22.5	113	73-125	
Tetrachloroethene	ug/L	20	22.8	114	72-125	
Tetrahydrofuran	ug/L	200	202	101	67-125	
Toluene	ug/L	20	22.4	112	75-125	
trans-1,2-Dichloroethene	ug/L	20	19.3	97	72-126	
trans-1,3-Dichloropropene	ug/L	20	23.4	117	75-125	
Trichloroethene	ug/L	20	21.9	109	75-125	
Trichlorofluoromethane	ug/L	20	19.6	98	71-125	
Vinyl chloride	ug/L	20	19.8	99	69-128	
Xylene (Total)	ug/L	60	69.7	116	74-125	
1,2-Dichloroethane-d4 (S)	%			85	75-125	
4-Bromofluorobenzene (S)	%			98	75-125	
Dibromofluoromethane (S)	%			84	75-125	
Toluene-d8 (S)	%			99	75-125	

MATRIX SPIKE SAMPLE: 1385721

Parameter	Units	10221059001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	20	24.3	122	75-125	
1,1,1-Trichloroethane	ug/L	ND	20	21.7	108	75-134	
1,1,2,2-Tetrachloroethane	ug/L	ND	20	23.2	116	75-125	
1,1,2-Trichloroethane	ug/L	ND	20	23.0	115	75-125	
1,1,2-Trichlorotrifluoroethane	ug/L	ND	20	27.7	137	75-150	
1,1-Dichloroethane	ug/L	ND	20	20.1	100	75-129	
1,1-Dichloroethene	ug/L	ND	20	22.7	113	75-141	
1,1-Dichloropropene	ug/L	ND	20	22.0	110	75-135	
1,2,3-Trichlorobenzene	ug/L	ND	20	22.8	114	72-125	
1,2,3-Trichloropropane	ug/L	ND	20	22.8	114	75-125	
1,2,4-Trichlorobenzene	ug/L	ND	20	22.5	112	75-125	
1,2,4-Trimethylbenzene	ug/L	ND	20	23.4	117	75-125	
1,2-Dibromo-3-chloropropane	ug/L	ND	50	57.8	116	72-125	
1,2-Dibromoethane (EDB)	ug/L	ND	20	23.4	117	75-125	
1,2-Dichlorobenzene	ug/L	ND	20	23.0	115	75-125	
1,2-Dichloroethane	ug/L	ND	20	20.0	100	75-125	
1,2-Dichloropropane	ug/L	ND	20	23.1	115	75-125	
1,3,5-Trimethylbenzene	ug/L	ND	20	23.4	117	75-125	
1,3-Dichlorobenzene	ug/L	ND	20	23.1	115	75-125	
1,3-Dichloropropane	ug/L	ND	20	22.3	111	75-125	
1,4-Dichlorobenzene	ug/L	ND	20	22.7	113	75-125	
2,2-Dichloropropane	ug/L	ND	20	21.4	107	72-145	
2-Butanone (MEK)	ug/L	ND	100	96.7	97	65-125	
2-Chloroethylvinyl ether	ug/L	ND	50	ND	0	30-150 M1	
2-Chlorotoluene	ug/L	ND	20	23.2	116	75-125	
4-Chlorotoluene	ug/L	ND	20	23.2	116	75-125	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	100	117	117	72-125	

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QUALITY CONTROL DATA

Project: CRC City of Rochester

Pace Project No.: 10221059

MATRIX SPIKE SAMPLE:		1385721							
Parameter	Units	10221059001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers		
Acetone	ug/L	60.3	100	178	117	75-125			
Allyl chloride	ug/L	ND	20	21.5	107	75-138			
Benzene	ug/L	ND	20	20.7	103	75-129			
Bromobenzene	ug/L	ND	20	22.8	114	75-125			
Bromochloromethane	ug/L	ND	20	21.9	109	75-125			
Bromodichloromethane	ug/L	ND	20	23.4	117	75-125			
Bromoform	ug/L	ND	20	24.2	121	70-129			
Bromomethane	ug/L	ND	20	26.5	133	41-150			
Carbon tetrachloride	ug/L	ND	20	22.4	112	75-137			
Chlorobenzene	ug/L	ND	20	23.5	118	75-125			
Chloroethane	ug/L	ND	20	22.3	112	75-137			
Chloroform	ug/L	ND	20	20.7	104	75-130			
Chloromethane	ug/L	ND	20	21.6	108	57-150			
cis-1,2-Dichloroethene	ug/L	ND	20	20.8	103	73-139			
cis-1,3-Dichloropropene	ug/L	ND	20	23.5	117	75-125			
Dibromochloromethane	ug/L	ND	20	24.4	122	75-125			
Dibromomethane	ug/L	ND	20	22.6	113	75-125			
Dichlorodifluoromethane	ug/L	ND	20	26.7	133	72-150			
Dichlorofluoromethane	ug/L	ND	20	20.9	105	75-131			
Diethyl ether (Ethyl ether)	ug/L	ND	20	19.5	98	75-125			
Ethylbenzene	ug/L	ND	20	24.0	120	75-125			
Hexachloro-1,3-butadiene	ug/L	ND	20	26.0	130	74-135			
Isopropylbenzene (Cumene)	ug/L	ND	20	25.2	126	75-128			
m&p-Xylene	ug/L	ND	40	49.9	125	75-125			
Methyl-tert-butyl ether	ug/L	ND	20	19.9	99	75-127			
Methylene Chloride	ug/L	ND	20	19.0	95	74-128			
n-Butylbenzene	ug/L	ND	20	24.3	121	75-130			
n-Propylbenzene	ug/L	ND	20	24.5	122	75-127			
Naphthalene	ug/L	ND	20	22.9	115	64-127			
o-Xylene	ug/L	ND	20	24.3	121	75-125			
p-Isopropyltoluene	ug/L	ND	20	24.2	121	75-126			
sec-Butylbenzene	ug/L	ND	20	24.5	123	75-128			
Styrene	ug/L	ND	20	24.7	123	70-129			
tert-Butylbenzene	ug/L	ND	20	23.8	119	75-125			
Tetrachloroethene	ug/L	35.4	20	63.8	142	75-132	M1		
Tetrahydrofuran	ug/L	ND	200	198	99	68-125			
Toluene	ug/L	ND	20	24.0	120	75-125			
trans-1,2-Dichloroethene	ug/L	ND	20	21.0	105	75-140			
trans-1,3-Dichloropropene	ug/L	ND	20	24.0	120	75-125			
Trichloroethene	ug/L	ND	20	24.1	120	75-135			
Trichlorofluoromethane	ug/L	ND	20	25.0	125	75-148			
Vinyl chloride	ug/L	ND	20	22.9	114	75-144			
Xylene (Total)	ug/L	ND	60	74.2	124	75-125			
1,2-Dichloroethane-d4 (S)	%				85	75-125			
4-Bromofluorobenzene (S)	%				99	75-125			
Dibromofluoromethane (S)	%				84	75-125			
Toluene-d8 (S)	%				98	75-125			

QUALITY CONTROL DATA

Project: CRC City of Rochester

Pace Project No.: 10221059

SAMPLE DUPLICATE: 1385722

Parameter	Units	10221059002 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	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	.099J		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	
4-Chlorotoluene	ug/L	ND	ND		30	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	ND		30	
Acetone	ug/L	114	124	8	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	

Date: 03/05/2013 03:14 PM

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: CRC City of Rochester

Pace Project No.: 10221059

SAMPLE DUPLICATE: 1385722

Parameter	Units	10221059002 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	ND		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	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)	%	95	96	.3		
4-Bromofluorobenzene (S)	%	98	97	1		
Dibromofluoromethane (S)	%	93	93	.6		
Toluene-d8 (S)	%	99	100	.5		

QUALIFIERS

Project: CRC City of Rochester

Pace Project No.: 10221059

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

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

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: CRC City of Rochester

Pace Project No.: 10221059

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10221059001	AS-Influent	EPA 624	MSV/22968		
10221059002	AS-Effluent	EPA 624	MSV/22968		



Document Name:
Sample Condition Upon Receipt Form

Document No.:
F-MN-L-213-rev.06

Document Revised: 28Jan2013
Page 1 of 1

Issuing Authority:
Pace Minnesota Quality Office

Sample Condition
Upon Receipt

Client/Name: Landmark Project #: _____

WO#: **10221059**

10221059

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

Thermom. Used: B88A912167504 80512447 72337080 Type of Ice: Wet Blue None Samples on Ice, cooling process has begun

Cooler Temp Read (°C): 1.8 Cooler Temp Corrected (°C): 1.8 Biological Tissue Frozen? Yes No
 Temp should be above freezing to 6°C Correction Factor: True Date and Initials of Person Examining Contents: 2/26/13 sh

Comments: _____

Chain of Custody Present?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Chain of Custody Filled Out?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.
Chain of Custody Relinquished?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	3.
Sampler Name and/or Signature on COC?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.
Samples Arrived within Hold Time?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5.
Short Hold Time Analysis (<72 hr)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	6.
Rush Turn Around Time Requested?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	7.
Sufficient Volume?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	8.
Correct Containers Used?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.
-Pace Containers Used?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Containers Intact?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	10.
Filtered Volume Received for Dissolved Tests?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	11.
Sample Labels Match COC?	<input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	12. MS In/out on vials AS ^{1/16/13} _{1/16/13} ^{1/16/13} _{1/16/13}
-Includes Date/Time/ID/Analysis Matrix: <u>WT</u>		
All containers needing acid/base preservation have been checked? Noncompliances are noted in 13.	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	13. <input type="checkbox"/> HNO ₃ <input type="checkbox"/> H ₂ SO ₄ <input type="checkbox"/> NaOH <input type="checkbox"/> HCl
All containers needing preservation are found to be in compliance with EPA recommendation? (HNO ₃ , H ₂ SO ₄ , HCl<2; NaOH>12)	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	Sample #
Exceptions: VOA, Coliform, TOC, Oil and Grease, WI-DRO (water)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Initial when completed: <u>SHA</u> Lot # of added preservative: _____
Headspace in VOA Vials (>6mm)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	14.
Trip Blank Present?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	15.
Trip Blank Custody Seals Present?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> 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:

Quo

Date: 2/26/13

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)

March 29, 2013

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

RE: Project: CRC CITY OF ROCHESTER
Pace Project No.: 10223178

Dear Mr. Skramstad:

Enclosed are the analytical results for sample(s) received by the laboratory on March 21, 2013. 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@pacelabs.com
Project Manager

Enclosures



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: CRC CITY OF ROCHESTER

Pace Project No.: 10223178

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

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: CRC CITY OF ROCHESTER

Pace Project No.: 10223178

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10223178001	AS - INFLUENT	Water	03/21/13 10:00	03/21/13 13:30
10223178002	AS -EFFLUENT	Water	03/21/13 10:05	03/21/13 13:30

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: CRC CITY OF ROCHESTER

Pace Project No.: 10223178

Lab ID	Sample ID	Method	Analysts	Analytes Reported
10223178001	AS - INFLUENT	EPA 624	SE	82
10223178002	AS - EFFLUENT	EPA 624	SE	82

REPORT OF LABORATORY ANALYSIS

ANALYTICAL RESULTS

Project: CRC CITY OF ROCHESTER

Pace Project No.: 10223178

Sample: AS - INFLUENT		Lab ID: 10223178001	Collected: 03/21/13 10:00	Received: 03/21/13 13:30	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
624 MSV		Analytical Method: EPA 624						
Acetone	ND	ug/L	20.0	1		03/27/13 17:41	67-64-1	
Acrolein	ND	ug/L	10.0	1		03/27/13 17:41	107-02-8	
Acrylonitrile	ND	ug/L	10.0	1		03/27/13 17:41	107-13-1	
Allyl chloride	ND	ug/L	4.0	1		03/27/13 17:41	107-05-1	
Benzene	ND	ug/L	1.0	1		03/27/13 17:41	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		03/27/13 17:41	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		03/27/13 17:41	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		03/27/13 17:41	75-27-4	
Bromoform	ND	ug/L	4.0	1		03/27/13 17:41	75-25-2	
Bromomethane	ND	ug/L	10.0	1		03/27/13 17:41	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	1		03/27/13 17:41	78-93-3	
n-Butylbenzene	ND	ug/L	1.0	1		03/27/13 17:41	104-51-8	
sec-Butylbenzene	ND	ug/L	1.0	1		03/27/13 17:41	135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	1		03/27/13 17:41	98-06-6	
Carbon disulfide	ND	ug/L	1.0	1		03/27/13 17:41	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	1		03/27/13 17:41	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		03/27/13 17:41	108-90-7	
Chloroethane	ND	ug/L	1.0	1		03/27/13 17:41	75-00-3	
2-Chloroethylvinyl ether	ND	ug/L	10.0	1		03/27/13 17:41	110-75-8	
Chloroform	ND	ug/L	1.0	1		03/27/13 17:41	67-66-3	
Chloromethane	ND	ug/L	4.0	1		03/27/13 17:41	74-87-3	
Chloroprene	ND	ug/L	1.0	1		03/27/13 17:41	126-99-8	
2-Chlorotoluene	ND	ug/L	1.0	1		03/27/13 17:41	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		03/27/13 17:41	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	4.0	1		03/27/13 17:41	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		03/27/13 17:41	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		03/27/13 17:41	106-93-4	
Dibromomethane	ND	ug/L	4.0	1		03/27/13 17:41	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		03/27/13 17:41	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		03/27/13 17:41	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		03/27/13 17:41	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		03/27/13 17:41	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		03/27/13 17:41	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		03/27/13 17:41	107-06-2	
1,2-Dichloroethene (Total)	ND	ug/L	2.0	1		03/27/13 17:41	540-59-0	
1,1-Dichloroethene	ND	ug/L	1.0	1		03/27/13 17:41	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		03/27/13 17:41	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		03/27/13 17:41	156-60-5	
Dichlorofluoromethane	ND	ug/L	1.0	1		03/27/13 17:41	75-43-4	
1,2-Dichloropropane	ND	ug/L	4.0	1		03/27/13 17:41	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		03/27/13 17:41	142-28-9	
2,2-Dichloropropane	ND	ug/L	4.0	1		03/27/13 17:41	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		03/27/13 17:41	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	4.0	1		03/27/13 17:41	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	4.0	1		03/27/13 17:41	10061-02-6	
Diethyl ether (Ethyl ether)	ND	ug/L	4.0	1		03/27/13 17:41	60-29-7	
Ethylbenzene	ND	ug/L	1.0	1		03/27/13 17:41	100-41-4	

Date: 03/29/2013 11:04 AM

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: CRC CITY OF ROCHESTER

Pace Project No.: 10223178

Sample: AS - INFLUENT		Lab ID: 10223178001	Collected: 03/21/13 10:00	Received: 03/21/13 13:30	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		03/27/13 17:41	87-68-3		
2-Hexanone	ND	ug/L	5.0	1		03/27/13 17:41	591-78-6		
Iodomethane	ND	ug/L	4.0	1		03/27/13 17:41	74-88-4	CL	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		03/27/13 17:41	98-82-8		
p-Isopropyltoluene	ND	ug/L	1.0	1		03/27/13 17:41	99-87-6		
Methylene Chloride	ND	ug/L	4.0	1		03/27/13 17:41	75-09-2		
2-Methylnaphthalene	ND	ug/L	5.0	1		03/27/13 17:41	91-57-6		
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		03/27/13 17:41	108-10-1		
Methyl-tert-butyl ether	ND	ug/L	1.0	1		03/27/13 17:41	1634-04-4		
Naphthalene	ND	ug/L	4.0	1		03/27/13 17:41	91-20-3		
n-Propylbenzene	ND	ug/L	1.0	1		03/27/13 17:41	103-65-1		
Styrene	ND	ug/L	1.0	1		03/27/13 17:41	100-42-5		
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		03/27/13 17:41	630-20-6		
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		03/27/13 17:41	79-34-5		
Tetrachloroethene	31.5	ug/L	1.0	1		03/27/13 17:41	127-18-4		
Tetrahydrofuran	ND	ug/L	10.0	1		03/27/13 17:41	109-99-9		
Toluene	ND	ug/L	1.0	1		03/27/13 17:41	108-88-3		
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		03/27/13 17:41	87-61-6		
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		03/27/13 17:41	120-82-1		
1,1,1-Trichloroethane	ND	ug/L	1.0	1		03/27/13 17:41	71-55-6		
1,1,2-Trichloroethane	ND	ug/L	1.0	1		03/27/13 17:41	79-00-5		
Trichloroethene	ND	ug/L	1.0	1		03/27/13 17:41	79-01-6		
Trichlorofluoromethane	ND	ug/L	1.0	1		03/27/13 17:41	75-69-4		
1,2,3-Trichloropropane	ND	ug/L	4.0	1		03/27/13 17:41	96-18-4		
1,1,2-Trichlorotrifluoroethane	ND	ug/L	1.0	1		03/27/13 17:41	76-13-1		
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1		03/27/13 17:41	95-63-6		
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1		03/27/13 17:41	108-67-8		
Vinyl acetate	ND	ug/L	10.0	1		03/27/13 17:41	108-05-4		
Vinyl chloride	ND	ug/L	0.40	1		03/27/13 17:41	75-01-4		
Xylene (Total)	ND	ug/L	3.0	1		03/27/13 17:41	1330-20-7		
m&p-Xylene	ND	ug/L	2.0	1		03/27/13 17:41	179601-23-1		
o-Xylene	ND	ug/L	1.0	1		03/27/13 17:41	95-47-6		
Surrogates									
1,2-Dichloroethane-d4 (S)	103	%	75-125	1		03/27/13 17:41	17060-07-0		
Toluene-d8 (S)	105	%	75-125	1		03/27/13 17:41	2037-26-5		
4-Bromofluorobenzene (S)	96	%	75-125	1		03/27/13 17:41	460-00-4		

ANALYTICAL RESULTS

Project: CRC CITY OF ROCHESTER

Pace Project No.: 10223178

Sample: AS -EFFLUENT		Lab ID: 10223178002	Collected: 03/21/13 10:05	Received: 03/21/13 13:30	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
624 MSV		Analytical Method: EPA 624						
Acetone	ND	ug/L	20.0	1		03/27/13 17:55	67-64-1	
Acrolein	ND	ug/L	10.0	1		03/27/13 17:55	107-02-8	
Acrylonitrile	ND	ug/L	10.0	1		03/27/13 17:55	107-13-1	
Allyl chloride	ND	ug/L	4.0	1		03/27/13 17:55	107-05-1	
Benzene	ND	ug/L	1.0	1		03/27/13 17:55	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		03/27/13 17:55	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		03/27/13 17:55	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		03/27/13 17:55	75-27-4	
Bromoform	ND	ug/L	4.0	1		03/27/13 17:55	75-25-2	
Bromomethane	ND	ug/L	10.0	1		03/27/13 17:55	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	1		03/27/13 17:55	78-93-3	
n-Butylbenzene	ND	ug/L	1.0	1		03/27/13 17:55	104-51-8	
sec-Butylbenzene	ND	ug/L	1.0	1		03/27/13 17:55	135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	1		03/27/13 17:55	98-06-6	
Carbon disulfide	ND	ug/L	1.0	1		03/27/13 17:55	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	1		03/27/13 17:55	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		03/27/13 17:55	108-90-7	
Chloroethane	ND	ug/L	1.0	1		03/27/13 17:55	75-00-3	
2-Chloroethylvinyl ether	ND	ug/L	10.0	1		03/27/13 17:55	110-75-8	
Chloroform	ND	ug/L	1.0	1		03/27/13 17:55	67-66-3	
Chloromethane	ND	ug/L	4.0	1		03/27/13 17:55	74-87-3	
Chloroprene	ND	ug/L	1.0	1		03/27/13 17:55	126-99-8	
2-Chlorotoluene	ND	ug/L	1.0	1		03/27/13 17:55	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		03/27/13 17:55	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	4.0	1		03/27/13 17:55	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		03/27/13 17:55	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		03/27/13 17:55	106-93-4	
Dibromomethane	ND	ug/L	4.0	1		03/27/13 17:55	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		03/27/13 17:55	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		03/27/13 17:55	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		03/27/13 17:55	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		03/27/13 17:55	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		03/27/13 17:55	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		03/27/13 17:55	107-06-2	
1,2-Dichloroethene (Total)	ND	ug/L	2.0	1		03/27/13 17:55	540-59-0	
1,1-Dichloroethene	ND	ug/L	1.0	1		03/27/13 17:55	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		03/27/13 17:55	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		03/27/13 17:55	156-60-5	
Dichlorofluoromethane	ND	ug/L	1.0	1		03/27/13 17:55	75-43-4	
1,2-Dichloropropane	ND	ug/L	4.0	1		03/27/13 17:55	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		03/27/13 17:55	142-28-9	
2,2-Dichloropropane	ND	ug/L	4.0	1		03/27/13 17:55	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		03/27/13 17:55	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	4.0	1		03/27/13 17:55	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	4.0	1		03/27/13 17:55	10061-02-6	
Diethyl ether (Ethyl ether)	ND	ug/L	4.0	1		03/27/13 17:55	60-29-7	
Ethylbenzene	ND	ug/L	1.0	1		03/27/13 17:55	100-41-4	

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REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: CRC CITY OF ROCHESTER

Pace Project No.: 10223178

Sample: AS -EFFLUENT		Lab ID: 10223178002	Collected: 03/21/13 10:05	Received: 03/21/13 13:30	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		03/27/13 17:55	87-68-3		
2-Hexanone	ND ug/L		5.0	1		03/27/13 17:55	591-78-6		
Iodomethane	ND ug/L		4.0	1		03/27/13 17:55	74-88-4	CL	
Isopropylbenzene (Cumene)	ND ug/L		1.0	1		03/27/13 17:55	98-82-8		
p-Isopropyltoluene	ND ug/L		1.0	1		03/27/13 17:55	99-87-6		
Methylene Chloride	ND ug/L		4.0	1		03/27/13 17:55	75-09-2		
2-Methylnaphthalene	ND ug/L		5.0	1		03/27/13 17:55	91-57-6		
4-Methyl-2-pentanone (MIBK)	ND ug/L		5.0	1		03/27/13 17:55	108-10-1		
Methyl-tert-butyl ether	ND ug/L		1.0	1		03/27/13 17:55	1634-04-4		
Naphthalene	ND ug/L		4.0	1		03/27/13 17:55	91-20-3		
n-Propylbenzene	ND ug/L		1.0	1		03/27/13 17:55	103-65-1		
Styrene	ND ug/L		1.0	1		03/27/13 17:55	100-42-5		
1,1,1,2-Tetrachloroethane	ND ug/L		1.0	1		03/27/13 17:55	630-20-6		
1,1,2,2-Tetrachloroethane	ND ug/L		1.0	1		03/27/13 17:55	79-34-5		
Tetrachloroethene	ND ug/L		1.0	1		03/27/13 17:55	127-18-4		
Tetrahydrofuran	ND ug/L		10.0	1		03/27/13 17:55	109-99-9		
Toluene	ND ug/L		1.0	1		03/27/13 17:55	108-88-3		
1,2,3-Trichlorobenzene	ND ug/L		1.0	1		03/27/13 17:55	87-61-6		
1,2,4-Trichlorobenzene	ND ug/L		1.0	1		03/27/13 17:55	120-82-1		
1,1,1-Trichloroethane	ND ug/L		1.0	1		03/27/13 17:55	71-55-6		
1,1,2-Trichloroethane	ND ug/L		1.0	1		03/27/13 17:55	79-00-5		
Trichloroethene	ND ug/L		1.0	1		03/27/13 17:55	79-01-6		
Trichlorofluoromethane	ND ug/L		1.0	1		03/27/13 17:55	75-69-4		
1,2,3-Trichloropropane	ND ug/L		4.0	1		03/27/13 17:55	96-18-4		
1,1,2-Trichlorotrifluoroethane	ND ug/L		1.0	1		03/27/13 17:55	76-13-1		
1,2,4-Trimethylbenzene	ND ug/L		1.0	1		03/27/13 17:55	95-63-6		
1,3,5-Trimethylbenzene	ND ug/L		1.0	1		03/27/13 17:55	108-67-8		
Vinyl acetate	ND ug/L		10.0	1		03/27/13 17:55	108-05-4		
Vinyl chloride	ND ug/L		0.40	1		03/27/13 17:55	75-01-4		
Xylene (Total)	ND ug/L		3.0	1		03/27/13 17:55	1330-20-7		
m&p-Xylene	ND ug/L		2.0	1		03/27/13 17:55	179601-23-1		
o-Xylene	ND ug/L		1.0	1		03/27/13 17:55	95-47-6		
Surrogates									
1,2-Dichloroethane-d4 (S)	104 %		75-125	1		03/27/13 17:55	17060-07-0		
Toluene-d8 (S)	101 %		75-125	1		03/27/13 17:55	2037-26-5		
4-Bromofluorobenzene (S)	98 %		75-125	1		03/27/13 17:55	460-00-4		

QUALITY CONTROL DATA

Project: CRC CITY OF ROCHESTER

Pace Project No.: 10223178

QC Batch: MSV/23192 Analysis Method: EPA 624
 QC Batch Method: EPA 624 Analysis Description: 624 MSV
 Associated Lab Samples: 10223178001, 10223178002

METHOD BLANK: 1398126 Matrix: Water

Associated Lab Samples: 10223178001, 10223178002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	1.0	03/27/13 11:42	
1,1,1-Trichloroethane	ug/L	ND	1.0	03/27/13 11:42	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	03/27/13 11:42	
1,1,2-Trichloroethane	ug/L	ND	1.0	03/27/13 11:42	
1,1,2-Trichlorotrifluoroethane	ug/L	ND	1.0	03/27/13 11:42	
1,1-Dichloroethane	ug/L	ND	1.0	03/27/13 11:42	
1,1-Dichloroethene	ug/L	ND	1.0	03/27/13 11:42	
1,1-Dichloropropene	ug/L	ND	1.0	03/27/13 11:42	
1,2,3-Trichlorobenzene	ug/L	ND	1.0	03/27/13 11:42	
1,2,3-Trichloropropane	ug/L	ND	4.0	03/27/13 11:42	
1,2,4-Trichlorobenzene	ug/L	ND	1.0	03/27/13 11:42	
1,2,4-Trimethylbenzene	ug/L	ND	1.0	03/27/13 11:42	
1,2-Dibromo-3-chloropropane	ug/L	ND	4.0	03/27/13 11:42	
1,2-Dibromoethane (EDB)	ug/L	ND	1.0	03/27/13 11:42	
1,2-Dichlorobenzene	ug/L	ND	1.0	03/27/13 11:42	
1,2-Dichloroethane	ug/L	ND	1.0	03/27/13 11:42	
1,2-Dichloroethene (Total)	ug/L	ND	2.0	03/27/13 11:42	
1,2-Dichloropropane	ug/L	ND	4.0	03/27/13 11:42	
1,3,5-Trimethylbenzene	ug/L	ND	1.0	03/27/13 11:42	
1,3-Dichlorobenzene	ug/L	ND	1.0	03/27/13 11:42	
1,3-Dichloropropane	ug/L	ND	1.0	03/27/13 11:42	
1,4-Dichlorobenzene	ug/L	ND	1.0	03/27/13 11:42	
2,2-Dichloropropane	ug/L	ND	4.0	03/27/13 11:42	
2-Butanone (MEK)	ug/L	ND	5.0	03/27/13 11:42	
2-Chloroethylvinyl ether	ug/L	ND	10.0	03/27/13 11:42	
2-Chlorotoluene	ug/L	ND	1.0	03/27/13 11:42	
2-Hexanone	ug/L	ND	5.0	03/27/13 11:42	
2-Methylnaphthalene	ug/L	ND	5.0	03/27/13 11:42	
4-Chlorotoluene	ug/L	ND	1.0	03/27/13 11:42	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	5.0	03/27/13 11:42	
Acetone	ug/L	ND	20.0	03/27/13 11:42	
Acrolein	ug/L	ND	10.0	03/27/13 11:42	
Acrylonitrile	ug/L	ND	10.0	03/27/13 11:42	
Allyl chloride	ug/L	ND	4.0	03/27/13 11:42	
Benzene	ug/L	ND	1.0	03/27/13 11:42	
Bromobenzene	ug/L	ND	1.0	03/27/13 11:42	
Bromochloromethane	ug/L	ND	1.0	03/27/13 11:42	
Bromodichloromethane	ug/L	ND	1.0	03/27/13 11:42	
Bromoform	ug/L	ND	4.0	03/27/13 11:42	
Bromomethane	ug/L	ND	10.0	03/27/13 11:42	
Carbon disulfide	ug/L	ND	1.0	03/27/13 11:42	
Carbon tetrachloride	ug/L	ND	1.0	03/27/13 11:42	
Chlorobenzene	ug/L	ND	1.0	03/27/13 11:42	

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QUALITY CONTROL DATA

Project: CRC CITY OF ROCHESTER

Pace Project No.: 10223178

METHOD BLANK: 1398126

Matrix: Water

Associated Lab Samples: 10223178001, 10223178002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloroethane	ug/L	ND	1.0	03/27/13 11:42	
Chloroform	ug/L	ND	1.0	03/27/13 11:42	
Chloromethane	ug/L	ND	4.0	03/27/13 11:42	
Chloroprene	ug/L	ND	1.0	03/27/13 11:42	
cis-1,2-Dichloroethene	ug/L	ND	1.0	03/27/13 11:42	
cis-1,3-Dichloropropene	ug/L	ND	4.0	03/27/13 11:42	
Dibromochloromethane	ug/L	ND	1.0	03/27/13 11:42	
Dibromomethane	ug/L	ND	4.0	03/27/13 11:42	
Dichlorodifluoromethane	ug/L	ND	1.0	03/27/13 11:42	
Dichlorofluoromethane	ug/L	ND	1.0	03/27/13 11:42	
Diethyl ether (Ethyl ether)	ug/L	ND	4.0	03/27/13 11:42	
Ethylbenzene	ug/L	ND	1.0	03/27/13 11:42	
Hexachloro-1,3-butadiene	ug/L	ND	5.0	03/27/13 11:42	
Iodomethane	ug/L	4.3	4.0	03/27/13 11:42	CL
Isopropylbenzene (Cumene)	ug/L	ND	1.0	03/27/13 11:42	
m&p-Xylene	ug/L	ND	2.0	03/27/13 11:42	
Methyl-tert-butyl ether	ug/L	ND	1.0	03/27/13 11:42	
Methylene Chloride	ug/L	ND	4.0	03/27/13 11:42	
n-Butylbenzene	ug/L	ND	1.0	03/27/13 11:42	
n-Propylbenzene	ug/L	ND	1.0	03/27/13 11:42	
Naphthalene	ug/L	ND	4.0	03/27/13 11:42	
o-Xylene	ug/L	ND	1.0	03/27/13 11:42	
p-Isopropyltoluene	ug/L	ND	1.0	03/27/13 11:42	
sec-Butylbenzene	ug/L	ND	1.0	03/27/13 11:42	
Styrene	ug/L	ND	1.0	03/27/13 11:42	
tert-Butylbenzene	ug/L	ND	1.0	03/27/13 11:42	
Tetrachloroethene	ug/L	ND	1.0	03/27/13 11:42	
Tetrahydrofuran	ug/L	ND	10.0	03/27/13 11:42	
Toluene	ug/L	ND	1.0	03/27/13 11:42	
trans-1,2-Dichloroethene	ug/L	ND	1.0	03/27/13 11:42	
trans-1,3-Dichloropropene	ug/L	ND	4.0	03/27/13 11:42	
Trichloroethene	ug/L	ND	1.0	03/27/13 11:42	
Trichlorofluoromethane	ug/L	ND	1.0	03/27/13 11:42	
Vinyl acetate	ug/L	ND	10.0	03/27/13 11:42	
Vinyl chloride	ug/L	ND	0.40	03/27/13 11:42	
Xylene (Total)	ug/L	ND	3.0	03/27/13 11:42	
1,2-Dichloroethane-d4 (S)	%	100	75-125	03/27/13 11:42	
4-Bromofluorobenzene (S)	%	99	75-125	03/27/13 11:42	
Toluene-d8 (S)	%	101	75-125	03/27/13 11:42	

LABORATORY CONTROL SAMPLE: 1398127

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	54.0	108	75-125	
1,1,1-Trichloroethane	ug/L	50	51.3	103	75-125	

QUALITY CONTROL DATA

Project: CRC CITY OF ROCHESTER

Pace Project No.: 10223178

LABORATORY CONTROL SAMPLE: 1398127

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,2,2-Tetrachloroethane	ug/L	50	50.0	100	75-125	
1,1,2-Trichloroethane	ug/L	50	50.6	101	75-125	
1,1,2-Trichlorotrifluoroethane	ug/L	50	55.8	112	51-134	
1,1-Dichloroethane	ug/L	50	48.9	98	74-125	
1,1-Dichloroethene	ug/L	50	50.4	101	74-125	
1,1-Dichloropropene	ug/L	50	49.9	100	73-125	
1,2,3-Trichlorobenzene	ug/L	50	53.1	106	75-125	
1,2,3-Trichloropropane	ug/L	50	51.8	104	75-125	
1,2,4-Trichlorobenzene	ug/L	50	52.4	105	75-125	
1,2,4-Trimethylbenzene	ug/L	50	52.1	104	73-125	
1,2-Dibromo-3-chloropropane	ug/L	125	133	107	72-125	
1,2-Dibromoethane (EDB)	ug/L	50	51.9	104	75-125	
1,2-Dichlorobenzene	ug/L	50	51.8	104	75-125	
1,2-Dichloroethane	ug/L	50	49.0	98	75-125	
1,2-Dichloroethene (Total)	ug/L	100	107	107	70-130	
1,2-Dichloropropane	ug/L	50	49.8	100	75-125	
1,3,5-Trimethylbenzene	ug/L	50	51.8	104	75-125	
1,3-Dichlorobenzene	ug/L	50	51.0	102	75-125	
1,3-Dichloropropane	ug/L	50	50.8	102	75-125	
1,4-Dichlorobenzene	ug/L	50	50.1	100	74-125	
2,2-Dichloropropane	ug/L	50	56.7	113	70-131	
2-Butanone (MEK)	ug/L	250	211	84	61-125	
2-Chloroethylvinyl ether	ug/L	125	97.8	78	38-150	
2-Chlorotoluene	ug/L	50	50.5	101	71-125	
2-Hexanone	ug/L	250	231	92	71-125	
2-Methylnaphthalene	ug/L	25	24.0	96	45-141	
4-Chlorotoluene	ug/L	50	51.3	103	72-125	
4-Methyl-2-pentanone (MIBK)	ug/L	250	239	96	68-125	
Acetone	ug/L	250	231	92	75-125	
Acrolein	ug/L	500	312	62	59-128	
Acrylonitrile	ug/L	500	446	89	73-125	
Allyl chloride	ug/L	50	52.7	105	75-128	
Benzene	ug/L	50	47.4	95	74-125	
Bromobenzene	ug/L	50	51.6	103	75-125	
Bromochloromethane	ug/L	50	50.1	100	75-125	
Bromodichloromethane	ug/L	50	49.5	99	75-125	
Bromoform	ug/L	50	54.4	109	75-125	
Bromomethane	ug/L	50	42.4	85	40-150	
Carbon disulfide	ug/L	50	50.0	100	60-132	
Carbon tetrachloride	ug/L	50	52.5	105	75-125	
Chlorobenzene	ug/L	50	49.4	99	75-125	
Chloroethane	ug/L	50	57.9	116	68-128	
Chloroform	ug/L	50	47.4	95	75-125	
Chloromethane	ug/L	50	44.8	90	59-126	
Chloroprene	ug/L	50	49.5	99	69-132	
cis-1,2-Dichloroethene	ug/L	50	49.9	100	75-125	
cis-1,3-Dichloropropene	ug/L	50	50.3	101	75-125	
Dibromochloromethane	ug/L	50	54.4	109	75-125	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: CRC CITY OF ROCHESTER

Pace Project No.: 10223178

LABORATORY CONTROL SAMPLE: 1398127

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Dibromomethane	ug/L	50	52.1	104	75-125	
Dichlorodifluoromethane	ug/L	50	55.5	111	43-135	
Dichlorofluoromethane	ug/L	50	49.8	100	72-125	
Diethyl ether (Ethyl ether)	ug/L	50	48.7	97	75-125	
Ethylbenzene	ug/L	50	50.3	101	75-125	
Hexachloro-1,3-butadiene	ug/L	50	55.2	110	68-127	
Iodomethane	ug/L	50	44.3	89	41-127	CL
Isopropylbenzene (Cumene)	ug/L	50	52.1	104	75-125	
m&p-Xylene	ug/L	100	101	101	74-125	
Methyl-tert-butyl ether	ug/L	50	47.8	96	75-125	
Methylene Chloride	ug/L	50	47.0	94	74-125	
n-Butylbenzene	ug/L	50	52.8	106	71-125	
n-Propylbenzene	ug/L	50	51.8	104	73-125	
Naphthalene	ug/L	50	52.0	104	73-125	
o-Xylene	ug/L	50	51.6	103	74-125	
p-Isopropyltoluene	ug/L	50	52.5	105	73-125	
sec-Butylbenzene	ug/L	50	52.3	105	71-125	
Styrene	ug/L	50	52.6	105	75-125	
tert-Butylbenzene	ug/L	50	51.9	104	73-125	
Tetrachloroethene	ug/L	50	51.2	102	72-125	
Tetrahydrofuran	ug/L	500	435	87	67-125	
Toluene	ug/L	50	47.7	95	75-125	
trans-1,2-Dichloroethene	ug/L	50	50.0	100	72-126	
trans-1,3-Dichloropropene	ug/L	50	56.7	113	75-125	
Trichloroethene	ug/L	50	50.8	102	75-125	
Trichlorofluoromethane	ug/L	50	52.2	104	71-125	
Vinyl acetate	ug/L	50	47.7	95	71-129	
Vinyl chloride	ug/L	50	48.5	97	69-128	
Xylene (Total)	ug/L	150	152	101	74-125	
1,2-Dichloroethane-d4 (S)	%			97	75-125	
4-Bromofluorobenzene (S)	%			100	75-125	
Toluene-d8 (S)	%			101	75-125	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1398128 1398129

Parameter	Units	10223502003		MS	MSD	MS		MSD		% Rec Limits	RPD	Max RPD	Qual
		Result	Conc.	Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec				
1,1,1,2-Tetrachloroethane	ug/L	ND	50	50	54.3	51.0	109	102	75-125	6	30		
1,1,1-Trichloroethane	ug/L	ND	50	50	54.6	52.0	109	104	75-134	5	30		
1,1,2,2-Tetrachloroethane	ug/L	ND	50	50	46.7	46.0	93	92	75-125	1	30		
1,1,2-Trichloroethane	ug/L	ND	50	50	52.2	46.5	104	93	75-125	11	30		
1,1,2-Trichlorotrifluoroethane	ug/L	ND	50	50	70.2	65.2	140	130	75-150	7	30		
1,1-Dichloroethane	ug/L	ND	50	50	49.4	47.0	99	94	75-129	5	30		
1,1-Dichloroethene	ug/L	ND	50	50	54.1	50.4	108	101	75-141	7	30		
1,1-Dichloropropene	ug/L	ND	50	50	52.8	48.8	106	98	75-135	8	30		
1,2,3-Trichlorobenzene	ug/L	ND	50	50	51.2	48.1	102	96	72-125	6	30		
1,2,3-Trichloropropane	ug/L	ND	50	50	49.0	47.9	98	96	75-125	2	30		

Date: 03/29/2013 11:04 AM

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: CRC CITY OF ROCHESTER

Pace Project No.: 10223178

Parameter	10223502003		MS		MSD		MS		MSD		MS		MSD		% Rec		Max		Qual
	Units	Result	Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	MS % Rec	MSD % Rec	Limits	RPD	RPD	RPD	RPD				
1,2,4-Trichlorobenzene	ug/L	ND	50	50	51.2	48.0	102	96	75-125	7	30								
1,2,4-Trimethylbenzene	ug/L	ND	50	50	50.7	49.6	101	99	75-125	2	30								
1,2-Dibromo-3-chloropropane	ug/L	ND	125	125	131	128	105	103	72-125	2	30								
1,2-Dibromoethane (EDB)	ug/L	ND	50	50	52.2	47.2	104	94	75-125	10	30								
1,2-Dichlorobenzene	ug/L	ND	50	50	51.4	48.2	103	96	75-125	6	30								
1,2-Dichloroethane	ug/L	ND	50	50	47.6	44.4	95	89	75-125	7	30								
1,2-Dichloroethene (Total)	ug/L	33.3	100	100	142	133	108	99	70-130	7	30								
1,2-Dichloropropane	ug/L	ND	50	50	48.5	46.8	97	94	75-125	4	30								
1,3,5-Trimethylbenzene	ug/L	ND	50	50	50.4	48.9	101	98	75-125	3	30								
1,3-Dichlorobenzene	ug/L	ND	50	50	51.1	48.2	102	96	75-125	6	30								
1,3-Dichloropropane	ug/L	ND	50	50	51.8	46.1	104	92	75-125	12	30								
1,4-Dichlorobenzene	ug/L	ND	50	50	49.7	47.1	99	94	75-125	5	30								
2,2-Dichloropropane	ug/L	ND	50	50	58.7	55.9	117	112	72-145	5	30								
2-Butanone (MEK)	ug/L	ND	250	250	207	207	83	83	65-125	.3	30								
2-Chloroethylvinyl ether	ug/L	ND	125	125	15.4	1.1J	12	.9	30-150		30	M1							
2-Chlorotoluene	ug/L	ND	50	50	48.9	47.3	98	95	75-125	3	30								
2-Hexanone	ug/L	ND	250	250	231	233	92	93	70-125	.8	30								
2-Methylnaphthalene	ug/L	ND	25	25	22.8	23.0	91	92	35-150	.5	30								
4-Chlorotoluene	ug/L	ND	50	50	49.6	48.6	99	97	75-125	2	30								
4-Methyl-2-pentanone (MIBK)	ug/L	ND	250	250	244	224	98	89	72-125	9	30								
Acetone	ug/L	ND	250	250	235	231	93	92	75-125	2	30								
Acrolein	ug/L	ND	500	500	342	430	68	86	58-126	23	30								
Acrylonitrile	ug/L	ND	500	500	438	435	88	87	74-125	.7	30								
Allyl chloride	ug/L	ND	50	50	54.5	49.1	109	98	75-138	10	30								
Benzene	ug/L	ND	50	50	47.7	44.5	95	89	75-129	7	30								
Bromobenzene	ug/L	ND	50	50	50.5	48.0	101	96	75-125	5	30								
Bromochloromethane	ug/L	ND	50	50	48.6	45.1	97	90	75-125	7	30								
Bromodichloromethane	ug/L	ND	50	50	49.9	48.2	100	96	75-125	3	30								
Bromoform	ug/L	ND	50	50	53.0	50.7	106	101	70-129	4	30								
Bromomethane	ug/L	ND	50	50	46.2	47.3	92	95	41-150	2	30								
Carbon disulfide	ug/L	ND	50	50	51.9	47.9	104	96	69-143	8	30								
Carbon tetrachloride	ug/L	ND	50	50	57.3	54.3	115	109	75-137	5	30								
Chlorobenzene	ug/L	ND	50	50	49.5	46.7	99	93	75-125	6	30								
Chloroethane	ug/L	ND	50	50	59.1	44.9	118	90	75-137	27	30								
Chloroform	ug/L	ND	50	50	49.1	47.0	97	93	75-130	4	30								
Chloromethane	ug/L	ND	50	50	47.9	47.7	96	95	57-150	.3	30								
Chloroprene	ug/L	ND	50	50	52.5	49.8	105	100	75-139	5	30								
cis-1,2-Dichloroethene	ug/L	33.3	50	50	83.4	80.8	100	95	73-139	3	30								
cis-1,3-Dichloropropene	ug/L	ND	50	50	51.4	46.6	103	93	75-125	10	30								
Dibromochloromethane	ug/L	ND	50	50	55.5	49.9	111	100	75-125	11	30								
Dibromomethane	ug/L	ND	50	50	49.4	47.1	99	94	75-125	5	30								
Dichlorodifluoromethane	ug/L	ND	50	50	70.9	65.5	142	131	72-150	8	30								
Dichlorofluoromethane	ug/L	ND	50	50	50.9	47.4	102	95	75-131	7	30								
Diethyl ether (Ethyl ether)	ug/L	ND	50	50	48.1	44.5	96	89	75-125	8	30								
Ethylbenzene	ug/L	ND	50	50	50.9	48.2	102	96	75-125	5	30								
Hexachloro-1,3-butadiene	ug/L	ND	50	50	56.4	51.5	113	103	74-135	9	30								
Iodomethane	ug/L	ND	50	50	47.6	33.7	95	67	44-134	34	30	CL,R1							

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: CRC CITY OF ROCHESTER

Pace Project No.: 10223178

Parameter	10223502003		MS		MSD		MS		MSD		MS		MSD		% Rec		Max	
	Units	Result	Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	MS % Rec	MSD % Rec	MS % Rec	MSD % Rec	Limits	RPD	RPD	RPD	RPD	Qual
Isopropylbenzene (Cumene)	ug/L	ND	50	50	51.9	50.9	104	102	75-128	2	30							
m&p-Xylene	ug/L	ND	100	100	105	99.2	105	99	75-125	6	30							
Methyl-tert-butyl ether	ug/L	ND	50	50	47.1	44.7	94	89	75-127	5	30							
Methylene Chloride	ug/L	ND	50	50	47.0	44.2	94	88	74-128	6	30							
n-Butylbenzene	ug/L	ND	50	50	53.6	51.0	107	102	75-130	5	30							
n-Propylbenzene	ug/L	ND	50	50	50.7	49.2	101	98	75-127	3	30							
Naphthalene	ug/L	ND	50	50	50.7	48.7	101	97	64-127	4	30							
o-Xylene	ug/L	ND	50	50	52.4	49.8	105	100	75-125	5	30							
p-Isopropyltoluene	ug/L	ND	50	50	53.1	50.6	106	101	75-126	5	30							
sec-Butylbenzene	ug/L	ND	50	50	52.5	50.8	105	102	75-128	3	30							
Styrene	ug/L	ND	50	50	51.1	50.6	102	101	70-129	1	30							
tert-Butylbenzene	ug/L	ND	50	50	52.2	50.4	104	101	75-125	4	30							
Tetrachloroethene	ug/L	ND	50	50	55.7	50.4	111	101	75-132	10	30							
Tetrahydrofuran	ug/L	ND	500	500	430	441	86	88	68-125	2	30							
Toluene	ug/L	ND	50	50	50.7	45.7	101	91	75-125	10	30							
trans-1,2-Dichloroethene	ug/L	ND	50	50	52.0	49.2	103	98	75-140	6	30							
trans-1,3-Dichloropropene	ug/L	ND	50	50	58.2	51.9	116	104	75-125	12	30							
Trichloroethene	ug/L	84.4	50	50	138	131	107	93	75-135	5	30							
Trichlorofluoromethane	ug/L	ND	50	50	57.0	52.9	114	106	75-148	8	30							
Vinyl acetate	ug/L	ND	50	50	46.9	45.2	94	90	58-133	4	30							
Vinyl chloride	ug/L	ND	50	50	53.2	50.5	106	101	75-144	5	30							
Xylene (Total)	ug/L	ND	150	150	158	149	105	99	75-125	6	30							
1,2-Dichloroethane-d4 (S)	%							97	97	75-125								
4-Bromofluorobenzene (S)	%							95	98	75-125								
Toluene-d8 (S)	%							107	101	75-125								

QUALIFIERS

Project: CRC CITY OF ROCHESTER

Pace Project No.: 10223178

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

CL The continuing calibration for this compound is outside of Pace Analytical acceptance limits. The results may be biased low.

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

R1 RPD value was outside control limits.

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: CRC CITY OF ROCHESTER

Pace Project No.: 10223178

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10223178001	AS - INFLUENT	EPA 624	MSV/23192		
10223178002	AS - EFFLUENT	EPA 624	MSV/23192		



Document Name:
Sample Condition Upon Receipt Form
 Document No.:
F-MN-L-213-rev.06

Document Revised: 28Jan2013
 Page 1 of 1
 Issuing Authority:
 Pace Minnesota Quality Office

Sample Condition
 Upon Receipt

Client Name: Landmark Project #: _____

WO# : 10223178

10223178

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

Thermom. Used: B88A912167504 80512447 72337080 Type of Ice: Wet Blue None Samples on ice, cooling process has begun

Cooler Temp Read (°C): 8.7 Cooler Temp Corrected (°C): 8.7 Biological Tissue Frozen? Yes No
 Temp should be above freezing to 6°C Correction Factor: True Date and Initials of Person Examining Contents: 3/21/13 [initials]

Comments: _____

Chain of Custody Present?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Chain of Custody Filled Out?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.
Chain of Custody Relinquished?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	3.
Sampler Name and/or Signature on COC?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.
Samples Arrived within Hold Time?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5.
Short Hold Time Analysis (<72 hr)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	6.
Rush Turn Around Time Requested?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	7.
Sufficient Volume?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	8.
Correct Containers Used?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.
-Pace Containers Used?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Containers Intact?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	10.
Filtered Volume Received for Dissolved Tests?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11.
Sample Labels Match COC?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	12.
-Includes Date/Time/ID/Analysis Matrix: <u>WT</u>		
All containers needing acid/base preservation have been checked? Noncompliances are noted in 13.	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	13.
All containers needing preservation are found to be in compliance with EPA recommendation? (HNO ₃ , H ₂ SO ₄ , HCl<2; NaOH>12)	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	Sample #
Exceptions: VOA, Coliform, TOC, Oil and Grease, WI-DRO (water)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Initial when completed: <u>SU</u> Lot # of added preservative: _____
Headspace in VOA Vials (>6mm)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	14.
Trip Blank Present?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	15.
Trip Blank Custody Seals Present?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> 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: [Signature] Date: 3/22/13

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)

March 11, 2013

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

RE: Project: CRC City of Rochester
Pace Project No.: 10221058

Dear Mr. Skramstad:

Enclosed are the analytical results for sample(s) received by the laboratory on February 26, 2013. 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@pacelabs.com
Project Manager

Enclosures



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: CRC City of Rochester

Pace Project No.: 10221058

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

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: CRC City of Rochester

Pace Project No.: 10221058

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10221058001	DPE-1	Water	02/26/13 04:30	02/26/13 14:18
10221058002	DPE-2	Water	02/26/13 05:00	02/26/13 14:18
10221058003	DPE-3	Water	02/26/13 05:30	02/26/13 14:18
10221058004	DPE-4	Water	02/26/13 06:00	02/26/13 14:18
10221058005	DPE-5	Water	02/26/13 06:30	02/26/13 14:18
10221058006	DPE-6	Water	02/26/13 07:00	02/26/13 14:18
10221058007	DPE-7	Water	02/26/13 07:30	02/26/13 14:18
10221058008	MW-14	Water	02/25/13 16:20	02/26/13 14:18
10221058009	MW-15	Water	02/25/13 16:50	02/26/13 14:18
10221058010	MW-16	Water	02/25/13 19:00	02/26/13 14:18
10221058011	MW-17	Water	02/25/13 17:50	02/26/13 14:18
10221058012	MW-18	Water	02/25/13 17:30	02/26/13 14:18
10221058013	MW-19	Water	02/25/13 16:00	02/26/13 14:18
10221058014	MW-20	Water	02/25/13 18:30	02/26/13 14:18
10221058015	Trip Blank	Water	02/25/13 00:00	02/26/13 14:18

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: CRC City of Rochester

Pace Project No.: 10221058

Lab ID	Sample ID	Method	Analysts	Analytes Reported
10221058001	DPE-1	EPA 8260	SE	70
10221058002	DPE-2	EPA 8260	SE	70
10221058003	DPE-3	EPA 8260	SE	70
10221058004	DPE-4	EPA 8260	SE	70
10221058005	DPE-5	EPA 8260	DJT	71
10221058006	DPE-6	EPA 8260	MJH	71
10221058007	DPE-7	EPA 8260	MJH	71
10221058008	MW-14	EPA 8260	MJH	71
10221058009	MW-15	EPA 8260	MJH	71
10221058010	MW-16	EPA 8260	MJH	71
10221058011	MW-17	EPA 8260	MJH	71
10221058012	MW-18	EPA 8260	MJH	71
10221058013	MW-19	EPA 8260	MJH	71
10221058014	MW-20	EPA 8260	MJH	71
10221058015	Trip Blank	EPA 8260	MJH	71

REPORT OF LABORATORY ANALYSIS

ANALYTICAL RESULTS

Project: CRC City of Rochester

Pace Project No.: 10221058

Sample: DPE-1		Lab ID: 10221058001	Collected: 02/26/13 04:30	Received: 02/26/13 14:18	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 VOC		Analytical Method: EPA 8260						
Acetone	ND	ug/L	20.0	1		03/04/13 22:53	67-64-1	
Allyl chloride	ND	ug/L	4.0	1		03/04/13 22:53	107-05-1	
Benzene	ND	ug/L	1.0	1		03/04/13 22:53	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		03/04/13 22:53	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		03/04/13 22:53	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		03/04/13 22:53	75-27-4	
Bromoform	ND	ug/L	4.0	1		03/04/13 22:53	75-25-2	
Bromomethane	ND	ug/L	10.0	1		03/04/13 22:53	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	1		03/04/13 22:53	78-93-3	
n-Butylbenzene	ND	ug/L	1.0	1		03/04/13 22:53	104-51-8	
sec-Butylbenzene	ND	ug/L	1.0	1		03/04/13 22:53	135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	1		03/04/13 22:53	98-06-6	
Carbon tetrachloride	ND	ug/L	1.0	1		03/04/13 22:53	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		03/04/13 22:53	108-90-7	
Chloroethane	ND	ug/L	1.0	1		03/04/13 22:53	75-00-3	
Chloroform	ND	ug/L	1.0	1		03/04/13 22:53	67-66-3	
Chloromethane	ND	ug/L	4.0	1		03/04/13 22:53	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		03/04/13 22:53	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		03/04/13 22:53	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	4.0	1		03/04/13 22:53	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		03/04/13 22:53	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		03/04/13 22:53	106-93-4	
Dibromomethane	ND	ug/L	4.0	1		03/04/13 22:53	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		03/04/13 22:53	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		03/04/13 22:53	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		03/04/13 22:53	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		03/04/13 22:53	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		03/04/13 22:53	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		03/04/13 22:53	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		03/04/13 22:53	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		03/04/13 22:53	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		03/04/13 22:53	156-60-5	
Dichlorofluoromethane	ND	ug/L	1.0	1		03/04/13 22:53	75-43-4	
1,2-Dichloropropane	ND	ug/L	4.0	1		03/04/13 22:53	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		03/04/13 22:53	142-28-9	
2,2-Dichloropropane	ND	ug/L	4.0	1		03/04/13 22:53	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		03/04/13 22:53	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	4.0	1		03/04/13 22:53	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	4.0	1		03/04/13 22:53	10061-02-6	
Diethyl ether (Ethyl ether)	ND	ug/L	4.0	1		03/04/13 22:53	60-29-7	
Ethylbenzene	ND	ug/L	1.0	1		03/04/13 22:53	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	5.0	1		03/04/13 22:53	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		03/04/13 22:53	98-82-8	
p-Isopropyltoluene	ND	ug/L	1.0	1		03/04/13 22:53	99-87-6	
Methylene Chloride	ND	ug/L	4.0	1		03/04/13 22:53	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		03/04/13 22:53	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		03/04/13 22:53	1634-04-4	

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ANALYTICAL RESULTS

Project: CRC City of Rochester

Project No.: 10221058

Sample: DPE-1		Lab ID: 10221058001	Collected: 02/26/13 04:30	Received: 02/26/13 14:18	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		03/04/13 22:53	91-20-3	
n-Propylbenzene	ND ug/L		1.0	1		03/04/13 22:53	103-65-1	
Styrene	ND ug/L		1.0	1		03/04/13 22:53	100-42-5	
1,1,1,2-Tetrachloroethane	ND ug/L		1.0	1		03/04/13 22:53	630-20-6	
1,1,2,2-Tetrachloroethane	ND ug/L		1.0	1		03/04/13 22:53	79-34-5	
Tetrachloroethene	171 ug/L		1.0	1		03/04/13 22:53	127-18-4	
Tetrahydrofuran	ND ug/L		10.0	1		03/04/13 22:53	109-99-9	
Toluene	ND ug/L		1.0	1		03/04/13 22:53	108-88-3	
1,2,3-Trichlorobenzene	ND ug/L		1.0	1		03/04/13 22:53	87-61-6	
1,2,4-Trichlorobenzene	ND ug/L		1.0	1		03/04/13 22:53	120-82-1	
1,1,1-Trichloroethane	ND ug/L		1.0	1		03/04/13 22:53	71-55-6	
1,1,2-Trichloroethane	ND ug/L		1.0	1		03/04/13 22:53	79-00-5	
Trichloroethene	ND ug/L		1.0	1		03/04/13 22:53	79-01-6	
Trichlorofluoromethane	ND ug/L		1.0	1		03/04/13 22:53	75-69-4	
1,2,3-Trichloropropane	ND ug/L		4.0	1		03/04/13 22:53	96-18-4	
1,1,2-Trichlorotrifluoroethane	7.9 ug/L		1.0	1		03/04/13 22:53	76-13-1	
1,2,4-Trimethylbenzene	ND ug/L		1.0	1		03/04/13 22:53	95-63-6	
1,3,5-Trimethylbenzene	ND ug/L		1.0	1		03/04/13 22:53	108-67-8	
Vinyl chloride	ND ug/L		0.40	1		03/04/13 22:53	75-01-4	
Xylene (Total)	ND ug/L		3.0	1		03/04/13 22:53	1330-20-7	
Surrogates								
1,2-Dichloroethane-d4 (S)	97 %		75-125	1		03/04/13 22:53	17060-07-0	
Toluene-d8 (S)	98 %		75-125	1		03/04/13 22:53	2037-26-5	
4-Bromofluorobenzene (S)	101 %		75-125	1		03/04/13 22:53	460-00-4	

Sample: DPE-2		Lab ID: 10221058002	Collected: 02/26/13 05:00	Received: 02/26/13 14:18	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 VOC		Analytical Method: EPA 8260						
Acetone	ND ug/L		20.0	1		03/05/13 11:23	67-64-1	
Allyl chloride	ND ug/L		4.0	1		03/05/13 11:23	107-05-1	
Benzene	ND ug/L		1.0	1		03/05/13 11:23	71-43-2	
Bromobenzene	ND ug/L		1.0	1		03/05/13 11:23	108-86-1	
Bromochloromethane	ND ug/L		1.0	1		03/05/13 11:23	74-97-5	
Bromodichloromethane	ND ug/L		1.0	1		03/05/13 11:23	75-27-4	
Bromoform	ND ug/L		4.0	1		03/05/13 11:23	75-25-2	
Bromomethane	ND ug/L		10.0	1		03/05/13 11:23	74-83-9	
2-Butanone (MEK)	ND ug/L		5.0	1		03/05/13 11:23	78-93-3	
n-Butylbenzene	ND ug/L		1.0	1		03/05/13 11:23	104-51-8	
sec-Butylbenzene	ND ug/L		1.0	1		03/05/13 11:23	135-98-8	
tert-Butylbenzene	ND ug/L		1.0	1		03/05/13 11:23	98-06-6	
Carbon tetrachloride	ND ug/L		1.0	1		03/05/13 11:23	56-23-5	
Chlorobenzene	ND ug/L		1.0	1		03/05/13 11:23	108-90-7	
Chloroethane	ND ug/L		1.0	1		03/05/13 11:23	75-00-3	
Chloroform	ND ug/L		1.0	1		03/05/13 11:23	67-66-3	

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ANALYTICAL RESULTS

Project: CRC City of Rochester

Pace Project No.: 10221058

Sample: DPE-2	Lab ID: 10221058002	Collected: 02/26/13 05:00	Received: 02/26/13 14:18	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 VOC		Analytical Method: EPA 8260						
Chloromethane	ND	ug/L	4.0	1		03/05/13 11:23	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		03/05/13 11:23	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		03/05/13 11:23	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	4.0	1		03/05/13 11:23	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		03/05/13 11:23	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		03/05/13 11:23	106-93-4	
Dibromomethane	ND	ug/L	4.0	1		03/05/13 11:23	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		03/05/13 11:23	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		03/05/13 11:23	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		03/05/13 11:23	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		03/05/13 11:23	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		03/05/13 11:23	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		03/05/13 11:23	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		03/05/13 11:23	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		03/05/13 11:23	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		03/05/13 11:23	156-60-5	
Dichlorofluoromethane	ND	ug/L	1.0	1		03/05/13 11:23	75-43-4	
1,2-Dichloropropane	ND	ug/L	4.0	1		03/05/13 11:23	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		03/05/13 11:23	142-28-9	
2,2-Dichloropropane	ND	ug/L	4.0	1		03/05/13 11:23	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		03/05/13 11:23	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	4.0	1		03/05/13 11:23	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	4.0	1		03/05/13 11:23	10061-02-6	
Diethyl ether (Ethyl ether)	ND	ug/L	4.0	1		03/05/13 11:23	60-29-7	
Ethylbenzene	ND	ug/L	1.0	1		03/05/13 11:23	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	5.0	1		03/05/13 11:23	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		03/05/13 11:23	98-82-8	
p-Isopropyltoluene	ND	ug/L	1.0	1		03/05/13 11:23	99-87-6	
Methylene Chloride	ND	ug/L	4.0	1		03/05/13 11:23	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		03/05/13 11:23	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		03/05/13 11:23	1634-04-4	
Naphthalene	ND	ug/L	4.0	1		03/05/13 11:23	91-20-3	
n-Propylbenzene	ND	ug/L	1.0	1		03/05/13 11:23	103-65-1	
Styrene	ND	ug/L	1.0	1		03/05/13 11:23	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		03/05/13 11:23	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		03/05/13 11:23	79-34-5	
Tetrachloroethene	140	ug/L	1.0	1		03/05/13 11:23	127-18-4	
Tetrahydrofuran	ND	ug/L	10.0	1		03/05/13 11:23	109-99-9	
Toluene	ND	ug/L	1.0	1		03/05/13 11:23	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		03/05/13 11:23	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		03/05/13 11:23	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		03/05/13 11:23	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		03/05/13 11:23	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		03/05/13 11:23	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		03/05/13 11:23	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	4.0	1		03/05/13 11:23	96-18-4	
1,1,2-Trichlorotrifluoroethane	16.0	ug/L	1.0	1		03/05/13 11:23	76-13-1	

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ANALYTICAL RESULTS

Project: CRC City of Rochester

Pace Project No.: 10221058

Sample: DPE-2		Lab ID: 10221058002	Collected: 02/26/13 05:00	Received: 02/26/13 14:18	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 VOC		Analytical Method: EPA 8260						
1,2,4-Trimethylbenzene	ND ug/L		1.0	1		03/05/13 11:23	95-63-6	
1,3,5-Trimethylbenzene	ND ug/L		1.0	1		03/05/13 11:23	108-67-8	
Vinyl chloride	ND ug/L		0.40	1		03/05/13 11:23	75-01-4	
Xylene (Total)	ND ug/L		3.0	1		03/05/13 11:23	1330-20-7	
Surrogates								
1,2-Dichloroethane-d4 (S)	91 %		75-125	1		03/05/13 11:23	17060-07-0	HS
Toluene-d8 (S)	98 %		75-125	1		03/05/13 11:23	2037-26-5	
4-Bromofluorobenzene (S)	100 %		75-125	1		03/05/13 11:23	460-00-4	

Sample: DPE-3		Lab ID: 10221058003	Collected: 02/26/13 05:30	Received: 02/26/13 14:18	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 VOC		Analytical Method: EPA 8260						
Acetone	104 ug/L		40.0	2		03/04/13 23:23	67-64-1	
Allyl chloride	ND ug/L		8.0	2		03/04/13 23:23	107-05-1	
Benzene	ND ug/L		2.0	2		03/04/13 23:23	71-43-2	
Bromobenzene	ND ug/L		2.0	2		03/04/13 23:23	108-86-1	
Bromochloromethane	ND ug/L		2.0	2		03/04/13 23:23	74-97-5	
Bromodichloromethane	ND ug/L		2.0	2		03/04/13 23:23	75-27-4	
Bromoform	ND ug/L		8.0	2		03/04/13 23:23	75-25-2	
Bromomethane	ND ug/L		20.0	2		03/04/13 23:23	74-83-9	
2-Butanone (MEK)	ND ug/L		10.0	2		03/04/13 23:23	78-93-3	
n-Butylbenzene	ND ug/L		2.0	2		03/04/13 23:23	104-51-8	
sec-Butylbenzene	ND ug/L		2.0	2		03/04/13 23:23	135-98-8	
tert-Butylbenzene	ND ug/L		2.0	2		03/04/13 23:23	98-06-6	
Carbon tetrachloride	ND ug/L		2.0	2		03/04/13 23:23	56-23-5	
Chlorobenzene	ND ug/L		2.0	2		03/04/13 23:23	108-90-7	
Chloroethane	ND ug/L		2.0	2		03/04/13 23:23	75-00-3	
Chloroform	ND ug/L		2.0	2		03/04/13 23:23	67-66-3	
Chloromethane	ND ug/L		8.0	2		03/04/13 23:23	74-87-3	
2-Chlorotoluene	ND ug/L		2.0	2		03/04/13 23:23	95-49-8	
4-Chlorotoluene	ND ug/L		2.0	2		03/04/13 23:23	106-43-4	
1,2-Dibromo-3-chloropropane	ND ug/L		8.0	2		03/04/13 23:23	96-12-8	
Dibromochloromethane	ND ug/L		2.0	2		03/04/13 23:23	124-48-1	
1,2-Dibromoethane (EDB)	ND ug/L		2.0	2		03/04/13 23:23	106-93-4	
Dibromomethane	ND ug/L		8.0	2		03/04/13 23:23	74-95-3	
1,2-Dichlorobenzene	ND ug/L		2.0	2		03/04/13 23:23	95-50-1	
1,3-Dichlorobenzene	ND ug/L		2.0	2		03/04/13 23:23	541-73-1	
1,4-Dichlorobenzene	ND ug/L		2.0	2		03/04/13 23:23	106-46-7	
Dichlorodifluoromethane	ND ug/L		2.0	2		03/04/13 23:23	75-71-8	
1,1-Dichloroethane	ND ug/L		2.0	2		03/04/13 23:23	75-34-3	
1,2-Dichloroethane	ND ug/L		2.0	2		03/04/13 23:23	107-06-2	
1,1-Dichloroethene	ND ug/L		2.0	2		03/04/13 23:23	75-35-4	
cis-1,2-Dichloroethene	ND ug/L		2.0	2		03/04/13 23:23	156-59-2	
trans-1,2-Dichloroethene	ND ug/L		2.0	2		03/04/13 23:23	156-60-5	

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ANALYTICAL RESULTS

Project: CRC City of Rochester

Pace Project No.: 10221058

Sample: DPE-3		Lab ID: 10221058003	Collected: 02/26/13 05:30	Received: 02/26/13 14:18	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 VOC		Analytical Method: EPA 8260						
Dichlorofluoromethane	ND ug/L		2.0	2		03/04/13 23:23	75-43-4	
1,2-Dichloropropane	ND ug/L		8.0	2		03/04/13 23:23	78-87-5	
1,3-Dichloropropane	ND ug/L		2.0	2		03/04/13 23:23	142-28-9	
2,2-Dichloropropane	ND ug/L		8.0	2		03/04/13 23:23	594-20-7	
1,1-Dichloropropene	ND ug/L		2.0	2		03/04/13 23:23	563-58-6	
cis-1,3-Dichloropropene	ND ug/L		8.0	2		03/04/13 23:23	10061-01-5	
trans-1,3-Dichloropropene	ND ug/L		8.0	2		03/04/13 23:23	10061-02-6	
Diethyl ether (Ethyl ether)	ND ug/L		8.0	2		03/04/13 23:23	60-29-7	
Ethylbenzene	ND ug/L		2.0	2		03/04/13 23:23	100-41-4	
Hexachloro-1,3-butadiene	ND ug/L		10.0	2		03/04/13 23:23	87-68-3	
Isopropylbenzene (Cumene)	ND ug/L		2.0	2		03/04/13 23:23	98-82-8	
p-Isopropyltoluene	ND ug/L		2.0	2		03/04/13 23:23	99-87-6	
Methylene Chloride	ND ug/L		8.0	2		03/04/13 23:23	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND ug/L		10.0	2		03/04/13 23:23	108-10-1	
Methyl-tert-butyl ether	ND ug/L		2.0	2		03/04/13 23:23	1634-04-4	
Naphthalene	ND ug/L		8.0	2		03/04/13 23:23	91-20-3	
n-Propylbenzene	ND ug/L		2.0	2		03/04/13 23:23	103-65-1	
Styrene	ND ug/L		2.0	2		03/04/13 23:23	100-42-5	
1,1,1,2-Tetrachloroethane	ND ug/L		2.0	2		03/04/13 23:23	630-20-6	
1,1,2,2-Tetrachloroethane	ND ug/L		2.0	2		03/04/13 23:23	79-34-5	
Tetrachloroethene	264 ug/L		2.0	2		03/04/13 23:23	127-18-4	
Tetrahydrofuran	ND ug/L		20.0	2		03/04/13 23:23	109-99-9	
Toluene	ND ug/L		2.0	2		03/04/13 23:23	108-88-3	
1,2,3-Trichlorobenzene	ND ug/L		2.0	2		03/04/13 23:23	87-61-6	
1,2,4-Trichlorobenzene	ND ug/L		2.0	2		03/04/13 23:23	120-82-1	
1,1,1-Trichloroethane	ND ug/L		2.0	2		03/04/13 23:23	71-55-6	
1,1,2-Trichloroethane	ND ug/L		2.0	2		03/04/13 23:23	79-00-5	
Trichloroethene	ND ug/L		2.0	2		03/04/13 23:23	79-01-6	
Trichlorofluoromethane	ND ug/L		2.0	2		03/04/13 23:23	75-69-4	
1,2,3-Trichloropropane	ND ug/L		8.0	2		03/04/13 23:23	96-18-4	
1,1,2-Trichlorotrifluoroethane	15.8 ug/L		2.0	2		03/04/13 23:23	76-13-1	
1,2,4-Trimethylbenzene	ND ug/L		2.0	2		03/04/13 23:23	95-63-6	
1,3,5-Trimethylbenzene	ND ug/L		2.0	2		03/04/13 23:23	108-67-8	
Vinyl chloride	ND ug/L		0.80	2		03/04/13 23:23	75-01-4	
Xylene (Total)	ND ug/L		6.0	2		03/04/13 23:23	1330-20-7	
Surrogates								
1,2-Dichloroethane-d4 (S)	96 %		75-125	2		03/04/13 23:23	17060-07-0	
Toluene-d8 (S)	98 %		75-125	2		03/04/13 23:23	2037-26-5	
4-Bromofluorobenzene (S)	101 %		75-125	2		03/04/13 23:23	460-00-4	

Sample: DPE-4		Lab ID: 10221058004	Collected: 02/26/13 06:00	Received: 02/26/13 14:18	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual

8260 VOC		Analytical Method: EPA 8260						
Acetone	40.9 ug/L		40.0	2		03/04/13 23:37	67-64-1	

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ANALYTICAL RESULTS

Project: CRC City of Rochester

Pace Project No.: 10221058

Sample: DPE-4	Lab ID: 10221058004	Collected: 02/26/13 06:00	Received: 02/26/13 14:18	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 VOC		Analytical Method: EPA 8260						
Allyl chloride	ND ug/L		8.0	2		03/04/13 23:37	107-05-1	
Benzene	ND ug/L		2.0	2		03/04/13 23:37	71-43-2	
Bromobenzene	ND ug/L		2.0	2		03/04/13 23:37	108-86-1	
Bromochloromethane	ND ug/L		2.0	2		03/04/13 23:37	74-97-5	
Bromodichloromethane	ND ug/L		2.0	2		03/04/13 23:37	75-27-4	
Bromoform	ND ug/L		8.0	2		03/04/13 23:37	75-25-2	
Bromomethane	ND ug/L		20.0	2		03/04/13 23:37	74-83-9	
2-Butanone (MEK)	ND ug/L		10.0	2		03/04/13 23:37	78-93-3	
n-Butylbenzene	ND ug/L		2.0	2		03/04/13 23:37	104-51-8	
sec-Butylbenzene	ND ug/L		2.0	2		03/04/13 23:37	135-98-8	
tert-Butylbenzene	ND ug/L		2.0	2		03/04/13 23:37	98-06-6	
Carbon tetrachloride	ND ug/L		2.0	2		03/04/13 23:37	56-23-5	
Chlorobenzene	ND ug/L		2.0	2		03/04/13 23:37	108-90-7	
Chloroethane	ND ug/L		2.0	2		03/04/13 23:37	75-00-3	
Chloroform	ND ug/L		2.0	2		03/04/13 23:37	67-66-3	
Chloromethane	ND ug/L		8.0	2		03/04/13 23:37	74-87-3	
2-Chlorotoluene	ND ug/L		2.0	2		03/04/13 23:37	95-49-8	
4-Chlorotoluene	ND ug/L		2.0	2		03/04/13 23:37	106-43-4	
1,2-Dibromo-3-chloropropane	ND ug/L		8.0	2		03/04/13 23:37	96-12-8	
Dibromochloromethane	ND ug/L		2.0	2		03/04/13 23:37	124-48-1	
1,2-Dibromoethane (EDB)	ND ug/L		2.0	2		03/04/13 23:37	106-93-4	
Dibromomethane	ND ug/L		8.0	2		03/04/13 23:37	74-95-3	
1,2-Dichlorobenzene	ND ug/L		2.0	2		03/04/13 23:37	95-50-1	
1,3-Dichlorobenzene	ND ug/L		2.0	2		03/04/13 23:37	541-73-1	
1,4-Dichlorobenzene	ND ug/L		2.0	2		03/04/13 23:37	106-46-7	
Dichlorodifluoromethane	ND ug/L		2.0	2		03/04/13 23:37	75-71-8	
1,1-Dichloroethane	ND ug/L		2.0	2		03/04/13 23:37	75-34-3	
1,2-Dichloroethane	ND ug/L		2.0	2		03/04/13 23:37	107-06-2	
1,1-Dichloroethene	ND ug/L		2.0	2		03/04/13 23:37	75-35-4	
cis-1,2-Dichloroethene	ND ug/L		2.0	2		03/04/13 23:37	156-59-2	
trans-1,2-Dichloroethene	ND ug/L		2.0	2		03/04/13 23:37	156-60-5	
Dichlorofluoromethane	ND ug/L		2.0	2		03/04/13 23:37	75-43-4	
1,2-Dichloropropane	ND ug/L		8.0	2		03/04/13 23:37	78-87-5	
1,3-Dichloropropane	ND ug/L		2.0	2		03/04/13 23:37	142-28-9	
2,2-Dichloropropane	ND ug/L		8.0	2		03/04/13 23:37	594-20-7	
1,1-Dichloropropene	ND ug/L		2.0	2		03/04/13 23:37	563-58-6	
cis-1,3-Dichloropropene	ND ug/L		8.0	2		03/04/13 23:37	10061-01-5	
trans-1,3-Dichloropropene	ND ug/L		8.0	2		03/04/13 23:37	10061-02-6	
Diethyl ether (Ethyl ether)	ND ug/L		8.0	2		03/04/13 23:37	60-29-7	
Ethylbenzene	ND ug/L		2.0	2		03/04/13 23:37	100-41-4	
Hexachloro-1,3-butadiene	ND ug/L		10.0	2		03/04/13 23:37	87-68-3	
Isopropylbenzene (Cumene)	ND ug/L		2.0	2		03/04/13 23:37	98-82-8	
p-Isopropyltoluene	ND ug/L		2.0	2		03/04/13 23:37	99-87-6	
Methylene Chloride	ND ug/L		8.0	2		03/04/13 23:37	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND ug/L		10.0	2		03/04/13 23:37	108-10-1	
Methyl-tert-butyl ether	ND ug/L		2.0	2		03/04/13 23:37	1634-04-4	
Naphthalene	ND ug/L		8.0	2		03/04/13 23:37	91-20-3	

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ANALYTICAL RESULTS

Project: CRC City of Rochester

Pace Project No.: 10221058

Sample: DPE-4		Lab ID: 10221058004	Collected: 02/26/13 06:00	Received: 02/26/13 14:18	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
8260 VOC		Analytical Method: EPA 8260							
n-Propylbenzene	ND	ug/L	2.0	2		03/04/13 23:37	103-65-1		
Styrene	ND	ug/L	2.0	2		03/04/13 23:37	100-42-5		
1,1,1,2-Tetrachloroethane	ND	ug/L	2.0	2		03/04/13 23:37	630-20-6		
1,1,2,2-Tetrachloroethane	ND	ug/L	2.0	2		03/04/13 23:37	79-34-5		
Tetrachloroethene	219	ug/L	2.0	2		03/04/13 23:37	127-18-4		
Tetrahydrofuran	ND	ug/L	20.0	2		03/04/13 23:37	109-99-9		
Toluene	ND	ug/L	2.0	2		03/04/13 23:37	108-88-3		
1,2,3-Trichlorobenzene	ND	ug/L	2.0	2		03/04/13 23:37	87-61-6		
1,2,4-Trichlorobenzene	ND	ug/L	2.0	2		03/04/13 23:37	120-82-1		
1,1,1-Trichloroethane	ND	ug/L	2.0	2		03/04/13 23:37	71-55-6		
1,1,2-Trichloroethane	ND	ug/L	2.0	2		03/04/13 23:37	79-00-5		
Trichloroethene	ND	ug/L	2.0	2		03/04/13 23:37	79-01-6		
Trichlorofluoromethane	ND	ug/L	2.0	2		03/04/13 23:37	75-69-4		
1,2,3-Trichloropropane	ND	ug/L	8.0	2		03/04/13 23:37	96-18-4		
1,1,2-Trichlorotrifluoroethane	28.8	ug/L	2.0	2		03/04/13 23:37	76-13-1		
1,2,4-Trimethylbenzene	ND	ug/L	2.0	2		03/04/13 23:37	95-63-6		
1,3,5-Trimethylbenzene	ND	ug/L	2.0	2		03/04/13 23:37	108-67-8		
Vinyl chloride	ND	ug/L	0.80	2		03/04/13 23:37	75-01-4		
Xylene (Total)	ND	ug/L	6.0	2		03/04/13 23:37	1330-20-7		
Surrogates									
1,2-Dichloroethane-d4 (S)	95 %		75-125	2		03/04/13 23:37	17060-07-0		
Toluene-d8 (S)	98 %		75-125	2		03/04/13 23:37	2037-26-5		
4-Bromofluorobenzene (S)	100 %		75-125	2		03/04/13 23:37	460-00-4		

Sample: DPE-5		Lab ID: 10221058005	Collected: 02/26/13 06:30	Received: 02/26/13 14:18	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
8260 VOC		Analytical Method: EPA 8260							
Acetone	107	ug/L	20.0	1		03/01/13 12:23	67-64-1		
Allyl chloride	ND	ug/L	4.0	1		03/01/13 12:23	107-05-1		
Benzene	ND	ug/L	1.0	1		03/01/13 12:23	71-43-2		
Bromobenzene	ND	ug/L	1.0	1		03/01/13 12:23	108-86-1		
Bromochloromethane	ND	ug/L	1.0	1		03/01/13 12:23	74-97-5		
Bromodichloromethane	ND	ug/L	1.0	1		03/01/13 12:23	75-27-4		
Bromoform	ND	ug/L	4.0	1		03/01/13 12:23	75-25-2		
Bromomethane	ND	ug/L	10.0	1		03/01/13 12:23	74-83-9		
2-Butanone (MEK)	ND	ug/L	5.0	1		03/01/13 12:23	78-93-3		
n-Butylbenzene	ND	ug/L	1.0	1		03/01/13 12:23	104-51-8		
sec-Butylbenzene	ND	ug/L	1.0	1		03/01/13 12:23	135-98-8		
tert-Butylbenzene	ND	ug/L	1.0	1		03/01/13 12:23	98-06-6		
Carbon tetrachloride	ND	ug/L	1.0	1		03/01/13 12:23	56-23-5		
Chlorobenzene	ND	ug/L	1.0	1		03/01/13 12:23	108-90-7		
Chloroethane	ND	ug/L	1.0	1		03/01/13 12:23	75-00-3		
Chloroform	ND	ug/L	1.0	1		03/01/13 12:23	67-66-3		
Chloromethane	ND	ug/L	4.0	1		03/01/13 12:23	74-87-3		

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ANALYTICAL RESULTS

Project: CRC City of Rochester

Pace Project No.: 10221058

Sample: DPE-5		Lab ID: 10221058005	Collected: 02/26/13 06:30	Received: 02/26/13 14:18	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 VOC		Analytical Method: EPA 8260						
2-Chlorotoluene	ND	ug/L	1.0	1		03/01/13 12:23	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		03/01/13 12:23	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	4.0	1		03/01/13 12:23	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		03/01/13 12:23	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		03/01/13 12:23	106-93-4	
Dibromomethane	ND	ug/L	4.0	1		03/01/13 12:23	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		03/01/13 12:23	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		03/01/13 12:23	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		03/01/13 12:23	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		03/01/13 12:23	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		03/01/13 12:23	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		03/01/13 12:23	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		03/01/13 12:23	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		03/01/13 12:23	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		03/01/13 12:23	156-60-5	
Dichlorofluoromethane	ND	ug/L	1.0	1		03/01/13 12:23	75-43-4	
1,2-Dichloropropane	ND	ug/L	4.0	1		03/01/13 12:23	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		03/01/13 12:23	142-28-9	
2,2-Dichloropropane	ND	ug/L	4.0	1		03/01/13 12:23	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		03/01/13 12:23	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	4.0	1		03/01/13 12:23	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	4.0	1		03/01/13 12:23	10061-02-6	
Diethyl ether (Ethyl ether)	ND	ug/L	4.0	1		03/01/13 12:23	60-29-7	
Ethylbenzene	ND	ug/L	1.0	1		03/01/13 12:23	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	5.0	1		03/01/13 12:23	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		03/01/13 12:23	98-82-8	
p-Isopropyltoluene	ND	ug/L	1.0	1		03/01/13 12:23	99-87-6	
Methylene Chloride	ND	ug/L	4.0	1		03/01/13 12:23	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		03/01/13 12:23	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		03/01/13 12:23	1634-04-4	
Naphthalene	ND	ug/L	4.0	1		03/01/13 12:23	91-20-3	
n-Propylbenzene	ND	ug/L	1.0	1		03/01/13 12:23	103-65-1	
Styrene	ND	ug/L	1.0	1		03/01/13 12:23	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		03/01/13 12:23	630-20-6	
1,1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		03/01/13 12:23	79-34-5	
Tetrachloroethene	30.9	ug/L	1.0	1		03/01/13 12:23	127-18-4	
Tetrahydrofuran	ND	ug/L	10.0	1		03/01/13 12:23	109-99-9	
Toluene	ND	ug/L	1.0	1		03/01/13 12:23	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		03/01/13 12:23	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		03/01/13 12:23	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		03/01/13 12:23	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		03/01/13 12:23	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		03/01/13 12:23	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		03/01/13 12:23	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	4.0	1		03/01/13 12:23	96-18-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/L	1.0	1		03/01/13 12:23	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1		03/01/13 12:23	95-63-6	

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ANALYTICAL RESULTS

Project: CRC City of Rochester

Pace Project No.: 10221058

Sample: DPE-5		Lab ID: 10221058005	Collected: 02/26/13 06:30	Received: 02/26/13 14:18	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 VOC		Analytical Method: EPA 8260						
1,3,5-Trimethylbenzene	ND ug/L		1.0	1		03/01/13 12:23	108-67-8	
Vinyl chloride	ND ug/L		0.40	1		03/01/13 12:23	75-01-4	
Xylene (Total)	ND ug/L		3.0	1		03/01/13 12:23	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	87 %		75-125	1		03/01/13 12:23	1868-53-7	
1,2-Dichloroethane-d4 (S)	92 %		75-125	1		03/01/13 12:23	17060-07-0	
Toluene-d8 (S)	99 %		75-125	1		03/01/13 12:23	2037-26-5	
4-Bromofluorobenzene (S)	98 %		75-125	1		03/01/13 12:23	460-00-4	

Sample: DPE-6		Lab ID: 10221058006	Collected: 02/26/13 07:00	Received: 02/26/13 14:18	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 VOC		Analytical Method: EPA 8260						
Acetone	ND ug/L		20.0	1		03/01/13 16:18	67-64-1	
Allyl chloride	ND ug/L		4.0	1		03/01/13 16:18	107-05-1	
Benzene	ND ug/L		1.0	1		03/01/13 16:18	71-43-2	
Bromobenzene	ND ug/L		1.0	1		03/01/13 16:18	108-86-1	
Bromochloromethane	ND ug/L		1.0	1		03/01/13 16:18	74-97-5	
Bromodichloromethane	ND ug/L		1.0	1		03/01/13 16:18	75-27-4	
Bromoform	ND ug/L		4.0	1		03/01/13 16:18	75-25-2	
Bromomethane	ND ug/L		4.0	1		03/01/13 16:18	74-83-9	
2-Butanone (MEK)	ND ug/L		5.0	1		03/01/13 16:18	78-93-3	
n-Butylbenzene	ND ug/L		1.0	1		03/01/13 16:18	104-51-8	
sec-Butylbenzene	ND ug/L		1.0	1		03/01/13 16:18	135-98-8	
tert-Butylbenzene	ND ug/L		1.0	1		03/01/13 16:18	98-06-6	
Carbon tetrachloride	ND ug/L		1.0	1		03/01/13 16:18	56-23-5	
Chlorobenzene	ND ug/L		1.0	1		03/01/13 16:18	108-90-7	
Chloroethane	ND ug/L		1.0	1		03/01/13 16:18	75-00-3	
Chloroform	ND ug/L		1.0	1		03/01/13 16:18	67-66-3	
Chloromethane	ND ug/L		4.0	1		03/01/13 16:18	74-87-3	
2-Chlorotoluene	ND ug/L		1.0	1		03/01/13 16:18	95-49-8	
4-Chlorotoluene	ND ug/L		1.0	1		03/01/13 16:18	106-43-4	
1,2-Dibromo-3-chloropropane	ND ug/L		4.0	1		03/01/13 16:18	96-12-8	
Dibromochloromethane	ND ug/L		1.0	1		03/01/13 16:18	124-48-1	
1,2-Dibromoethane (EDB)	ND ug/L		1.0	1		03/01/13 16:18	106-93-4	
Dibromomethane	ND ug/L		4.0	1		03/01/13 16:18	74-95-3	
1,2-Dichlorobenzene	ND ug/L		1.0	1		03/01/13 16:18	95-50-1	
1,3-Dichlorobenzene	ND ug/L		1.0	1		03/01/13 16:18	541-73-1	
1,4-Dichlorobenzene	ND ug/L		1.0	1		03/01/13 16:18	106-46-7	
Dichlorodifluoromethane	ND ug/L		1.0	1		03/01/13 16:18	75-71-8	
1,1-Dichloroethane	ND ug/L		1.0	1		03/01/13 16:18	75-34-3	
1,2-Dichloroethane	ND ug/L		1.0	1		03/01/13 16:18	107-06-2	
1,1-Dichloroethene	ND ug/L		1.0	1		03/01/13 16:18	75-35-4	
cis-1,2-Dichloroethene	ND ug/L		1.0	1		03/01/13 16:18	156-59-2	
trans-1,2-Dichloroethene	ND ug/L		1.0	1		03/01/13 16:18	156-60-5	

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ANALYTICAL RESULTS

Project: CRC City of Rochester

Pace Project No.: 10221058

Sample: DPE-6	Lab ID: 10221058006	Collected: 02/26/13 07:00	Received: 02/26/13 14:18	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 VOC		Analytical Method: EPA 8260						
Dichlorofluoromethane	ND ug/L		1.0	1		03/01/13 16:18	75-43-4	
1,2-Dichloropropane	ND ug/L		4.0	1		03/01/13 16:18	78-87-5	
1,3-Dichloropropane	ND ug/L		1.0	1		03/01/13 16:18	142-28-9	
2,2-Dichloropropane	ND ug/L		4.0	1		03/01/13 16:18	594-20-7	
1,1-Dichloropropene	ND ug/L		1.0	1		03/01/13 16:18	563-58-6	
cis-1,3-Dichloropropene	ND ug/L		4.0	1		03/01/13 16:18	10061-01-5	
trans-1,3-Dichloropropene	ND ug/L		4.0	1		03/01/13 16:18	10061-02-6	
Diethyl ether (Ethyl ether)	ND ug/L		4.0	1		03/01/13 16:18	60-29-7	
Ethylbenzene	ND ug/L		1.0	1		03/01/13 16:18	100-41-4	
Hexachloro-1,3-butadiene	ND ug/L		5.0	1		03/01/13 16:18	87-68-3	
Isopropylbenzene (Cumene)	ND ug/L		1.0	1		03/01/13 16:18	98-82-8	
p-Isopropyltoluene	ND ug/L		1.0	1		03/01/13 16:18	99-87-6	
Methylene Chloride	ND ug/L		4.0	1		03/01/13 16:18	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND ug/L		5.0	1		03/01/13 16:18	108-10-1	
Methyl-tert-butyl ether	ND ug/L		1.0	1		03/01/13 16:18	1634-04-4	
Naphthalene	ND ug/L		4.0	1		03/01/13 16:18	91-20-3	
n-Propylbenzene	ND ug/L		1.0	1		03/01/13 16:18	103-65-1	
Styrene	ND ug/L		1.0	1		03/01/13 16:18	100-42-5	
1,1,1,2-Tetrachloroethane	ND ug/L		1.0	1		03/01/13 16:18	630-20-6	
1,1,2,2-Tetrachloroethane	ND ug/L		1.0	1		03/01/13 16:18	79-34-5	
Tetrachloroethene	19.8 ug/L		1.0	1		03/01/13 16:18	127-18-4	
Tetrahydrofuran	ND ug/L		10.0	1		03/01/13 16:18	109-99-9	
Toluene	ND ug/L		1.0	1		03/01/13 16:18	108-88-3	
1,2,3-Trichlorobenzene	ND ug/L		1.0	1		03/01/13 16:18	87-61-6	
1,2,4-Trichlorobenzene	ND ug/L		1.0	1		03/01/13 16:18	120-82-1	
1,1,1-Trichloroethane	ND ug/L		1.0	1		03/01/13 16:18	71-55-6	
1,1,2-Trichloroethane	ND ug/L		1.0	1		03/01/13 16:18	79-00-5	
Trichloroethene	ND ug/L		1.0	1		03/01/13 16:18	79-01-6	
Trichlorofluoromethane	ND ug/L		1.0	1		03/01/13 16:18	75-69-4	
1,2,3-Trichloropropane	ND ug/L		4.0	1		03/01/13 16:18	96-18-4	
1,1,2-Trichlorotrifluoroethane	ND ug/L		1.0	1		03/01/13 16:18	76-13-1	
1,2,4-Trimethylbenzene	ND ug/L		1.0	1		03/01/13 16:18	95-63-6	
1,3,5-Trimethylbenzene	ND ug/L		1.0	1		03/01/13 16:18	108-67-8	
Vinyl chloride	ND ug/L		0.40	1		03/01/13 16:18	75-01-4	
Xylene (Total)	ND ug/L		3.0	1		03/01/13 16:18	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	106 %		75-125	1		03/01/13 16:18	1868-53-7	
1,2-Dichloroethane-d4 (S)	109 %		75-125	1		03/01/13 16:18	17060-07-0	
Toluene-d8 (S)	100 %		75-125	1		03/01/13 16:18	2037-26-5	
4-Bromofluorobenzene (S)	102 %		75-125	1		03/01/13 16:18	460-00-4	

ANALYTICAL RESULTS

Project: CRC City of Rochester

Pace Project No.: 10221058

Sample: DPE-7		Lab ID: 10221058007	Collected: 02/26/13 07:30	Received: 02/26/13 14:18	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 VOC		Analytical Method: EPA 8260						
Acetone	ND	ug/L	20.0	1		03/01/13 16:39	67-64-1	
Allyl chloride	ND	ug/L	4.0	1		03/01/13 16:39	107-05-1	
Benzene	ND	ug/L	1.0	1		03/01/13 16:39	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		03/01/13 16:39	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		03/01/13 16:39	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		03/01/13 16:39	75-27-4	
Bromoform	ND	ug/L	4.0	1		03/01/13 16:39	75-25-2	
Bromomethane	ND	ug/L	4.0	1		03/01/13 16:39	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	1		03/01/13 16:39	78-93-3	
n-Butylbenzene	ND	ug/L	1.0	1		03/01/13 16:39	104-51-8	
sec-Butylbenzene	ND	ug/L	1.0	1		03/01/13 16:39	135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	1		03/01/13 16:39	98-06-6	
Carbon tetrachloride	ND	ug/L	1.0	1		03/01/13 16:39	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		03/01/13 16:39	108-90-7	
Chloroethane	ND	ug/L	1.0	1		03/01/13 16:39	75-00-3	
Chloroform	ND	ug/L	1.0	1		03/01/13 16:39	67-66-3	
Chloromethane	ND	ug/L	4.0	1		03/01/13 16:39	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		03/01/13 16:39	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		03/01/13 16:39	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	4.0	1		03/01/13 16:39	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		03/01/13 16:39	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		03/01/13 16:39	106-93-4	
Dibromomethane	ND	ug/L	4.0	1		03/01/13 16:39	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		03/01/13 16:39	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		03/01/13 16:39	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		03/01/13 16:39	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		03/01/13 16:39	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		03/01/13 16:39	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		03/01/13 16:39	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		03/01/13 16:39	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		03/01/13 16:39	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		03/01/13 16:39	156-60-5	
Dichlorofluoromethane	ND	ug/L	1.0	1		03/01/13 16:39	75-43-4	
1,2-Dichloropropane	ND	ug/L	4.0	1		03/01/13 16:39	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		03/01/13 16:39	142-28-9	
2,2-Dichloropropane	ND	ug/L	4.0	1		03/01/13 16:39	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		03/01/13 16:39	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	4.0	1		03/01/13 16:39	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	4.0	1		03/01/13 16:39	10061-02-6	
Diethyl ether (Ethyl ether)	ND	ug/L	4.0	1		03/01/13 16:39	60-29-7	
Ethylbenzene	ND	ug/L	1.0	1		03/01/13 16:39	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	5.0	1		03/01/13 16:39	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		03/01/13 16:39	98-82-8	
p-Isopropyltoluene	ND	ug/L	1.0	1		03/01/13 16:39	99-87-6	
Methylene Chloride	ND	ug/L	4.0	1		03/01/13 16:39	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		03/01/13 16:39	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		03/01/13 16:39	1634-04-4	

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ANALYTICAL RESULTS

Project: CRC City of Rochester

Sample Project No.: 10221058

Sample: DPE-7		Lab ID: 10221058007	Collected: 02/26/13 07:30	Received: 02/26/13 14:18	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		03/01/13 16:39	91-20-3		
n-Propylbenzene	ND ug/L		1.0	1		03/01/13 16:39	103-65-1		
Styrene	ND ug/L		1.0	1		03/01/13 16:39	100-42-5		
1,1,1,2-Tetrachloroethane	ND ug/L		1.0	1		03/01/13 16:39	630-20-6		
1,1,2,2-Tetrachloroethane	ND ug/L		1.0	1		03/01/13 16:39	79-34-5		
Tetrachloroethene	8.0 ug/L		1.0	1		03/01/13 16:39	127-18-4		
Tetrahydrofuran	ND ug/L		10.0	1		03/01/13 16:39	109-99-9		
Toluene	ND ug/L		1.0	1		03/01/13 16:39	108-88-3		
1,2,3-Trichlorobenzene	ND ug/L		1.0	1		03/01/13 16:39	87-61-6		
1,2,4-Trichlorobenzene	ND ug/L		1.0	1		03/01/13 16:39	120-82-1		
1,1,1-Trichloroethane	ND ug/L		1.0	1		03/01/13 16:39	71-55-6		
1,1,2-Trichloroethane	ND ug/L		1.0	1		03/01/13 16:39	79-00-5		
Trichloroethene	ND ug/L		1.0	1		03/01/13 16:39	79-01-6		
Trichlorofluoromethane	ND ug/L		1.0	1		03/01/13 16:39	75-69-4		
1,2,3-Trichloropropane	ND ug/L		4.0	1		03/01/13 16:39	96-18-4		
1,1,2-Trichlorotrifluoroethane	ND ug/L		1.0	1		03/01/13 16:39	76-13-1		
1,2,4-Trimethylbenzene	ND ug/L		1.0	1		03/01/13 16:39	95-63-6		
1,3,5-Trimethylbenzene	ND ug/L		1.0	1		03/01/13 16:39	108-67-8		
Vinyl chloride	ND ug/L		0.40	1		03/01/13 16:39	75-01-4		
Xylene (Total)	ND ug/L		3.0	1		03/01/13 16:39	1330-20-7		
Surrogates									
Dibromofluoromethane (S)	105 %		75-125	1		03/01/13 16:39	1868-53-7		
1,2-Dichloroethane-d4 (S)	108 %		75-125	1		03/01/13 16:39	17060-07-0		
Toluene-d8 (S)	99 %		75-125	1		03/01/13 16:39	2037-26-5		
4-Bromofluorobenzene (S)	102 %		75-125	1		03/01/13 16:39	460-00-4		

Sample: MW-14		Lab ID: 10221058008	Collected: 02/25/13 16:20	Received: 02/26/13 14:18	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
8260 VOC		Analytical Method: EPA 8260							
Acetone	ND ug/L		20.0	1		03/01/13 17:00	67-64-1		
Allyl chloride	ND ug/L		4.0	1		03/01/13 17:00	107-05-1		
Benzene	ND ug/L		1.0	1		03/01/13 17:00	71-43-2		
Bromobenzene	ND ug/L		1.0	1		03/01/13 17:00	108-86-1		
Bromochloromethane	ND ug/L		1.0	1		03/01/13 17:00	74-97-5		
Bromodichloromethane	ND ug/L		1.0	1		03/01/13 17:00	75-27-4		
Bromoform	ND ug/L		4.0	1		03/01/13 17:00	75-25-2		
Bromomethane	ND ug/L		4.0	1		03/01/13 17:00	74-83-9		
2-Butanone (MEK)	ND ug/L		5.0	1		03/01/13 17:00	78-93-3		
n-Butylbenzene	ND ug/L		1.0	1		03/01/13 17:00	104-51-8		
sec-Butylbenzene	ND ug/L		1.0	1		03/01/13 17:00	135-98-8		
tert-Butylbenzene	ND ug/L		1.0	1		03/01/13 17:00	98-06-6		
Carbon tetrachloride	ND ug/L		1.0	1		03/01/13 17:00	56-23-5		
Chlorobenzene	ND ug/L		1.0	1		03/01/13 17:00	108-90-7		
Chloroethane	ND ug/L		1.0	1		03/01/13 17:00	75-00-3		

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ANALYTICAL RESULTS

Project: CRC City of Rochester

Pace Project No.: 10221058

Sample: MW-14	Lab ID: 10221058008	Collected: 02/25/13 16:20	Received: 02/26/13 14:18	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 VOC		Analytical Method: EPA 8260						
Chloroform	2.0 ug/L		1.0	1		03/01/13 17:00	67-66-3	
Chloromethane	ND ug/L		4.0	1		03/01/13 17:00	74-87-3	
2-Chlorotoluene	ND ug/L		1.0	1		03/01/13 17:00	95-49-8	
4-Chlorotoluene	ND ug/L		1.0	1		03/01/13 17:00	106-43-4	
1,2-Dibromo-3-chloropropane	ND ug/L		4.0	1		03/01/13 17:00	96-12-8	
Dibromochloromethane	ND ug/L		1.0	1		03/01/13 17:00	124-48-1	
1,2-Dibromoethane (EDB)	ND ug/L		1.0	1		03/01/13 17:00	106-93-4	
Dibromomethane	ND ug/L		4.0	1		03/01/13 17:00	74-95-3	
1,2-Dichlorobenzene	ND ug/L		1.0	1		03/01/13 17:00	95-50-1	
1,3-Dichlorobenzene	ND ug/L		1.0	1		03/01/13 17:00	541-73-1	
1,4-Dichlorobenzene	ND ug/L		1.0	1		03/01/13 17:00	106-46-7	
Dichlorodifluoromethane	ND ug/L		1.0	1		03/01/13 17:00	75-71-8	
1,1-Dichloroethane	ND ug/L		1.0	1		03/01/13 17:00	75-34-3	
1,2-Dichloroethane	ND ug/L		1.0	1		03/01/13 17:00	107-06-2	
1,1-Dichloroethene	ND ug/L		1.0	1		03/01/13 17:00	75-35-4	
cis-1,2-Dichloroethene	ND ug/L		1.0	1		03/01/13 17:00	156-59-2	
trans-1,2-Dichloroethene	ND ug/L		1.0	1		03/01/13 17:00	156-60-5	
Dichlorofluoromethane	ND ug/L		1.0	1		03/01/13 17:00	75-43-4	
1,2-Dichloropropane	ND ug/L		4.0	1		03/01/13 17:00	78-87-5	
1,3-Dichloropropane	ND ug/L		1.0	1		03/01/13 17:00	142-28-9	
2,2-Dichloropropane	ND ug/L		4.0	1		03/01/13 17:00	594-20-7	
1,1-Dichloropropene	ND ug/L		1.0	1		03/01/13 17:00	563-58-6	
cis-1,3-Dichloropropene	ND ug/L		4.0	1		03/01/13 17:00	10061-01-5	
trans-1,3-Dichloropropene	ND ug/L		4.0	1		03/01/13 17:00	10061-02-6	
Diethyl ether (Ethyl ether)	ND ug/L		4.0	1		03/01/13 17:00	60-29-7	
Ethylbenzene	ND ug/L		1.0	1		03/01/13 17:00	100-41-4	
Hexachloro-1,3-butadiene	ND ug/L		5.0	1		03/01/13 17:00	87-68-3	
Isopropylbenzene (Cumene)	ND ug/L		1.0	1		03/01/13 17:00	98-82-8	
p-Isopropyltoluene	ND ug/L		1.0	1		03/01/13 17:00	99-87-6	
Methylene Chloride	ND ug/L		4.0	1		03/01/13 17:00	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND ug/L		5.0	1		03/01/13 17:00	108-10-1	
Methyl-tert-butyl ether	ND ug/L		1.0	1		03/01/13 17:00	1634-04-4	
Naphthalene	ND ug/L		4.0	1		03/01/13 17:00	91-20-3	
n-Propylbenzene	ND ug/L		1.0	1		03/01/13 17:00	103-65-1	
Styrene	ND ug/L		1.0	1		03/01/13 17:00	100-42-5	
1,1,1,2-Tetrachloroethane	ND ug/L		1.0	1		03/01/13 17:00	630-20-6	
1,1,2,2-Tetrachloroethane	ND ug/L		1.0	1		03/01/13 17:00	79-34-5	
Tetrachloroethene	ND ug/L		1.0	1		03/01/13 17:00	127-18-4	
Tetrahydrofuran	ND ug/L		10.0	1		03/01/13 17:00	109-99-9	
Toluene	ND ug/L		1.0	1		03/01/13 17:00	108-88-3	
1,2,3-Trichlorobenzene	ND ug/L		1.0	1		03/01/13 17:00	87-61-6	
1,2,4-Trichlorobenzene	ND ug/L		1.0	1		03/01/13 17:00	120-82-1	
1,1,1-Trichloroethane	ND ug/L		1.0	1		03/01/13 17:00	71-55-6	
1,1,2-Trichloroethane	ND ug/L		1.0	1		03/01/13 17:00	79-00-5	
Trichloroethene	ND ug/L		1.0	1		03/01/13 17:00	79-01-6	
Trichlorofluoromethane	ND ug/L		1.0	1		03/01/13 17:00	75-69-4	
1,2,3-Trichloropropane	ND ug/L		4.0	1		03/01/13 17:00	96-18-4	

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ANALYTICAL RESULTS

Project: CRC City of Rochester

Pace Project No.: 10221058

Sample: MW-14		Lab ID: 10221058008	Collected: 02/25/13 16:20	Received: 02/26/13 14:18	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 VOC		Analytical Method: EPA 8260						
1,1,2-Trichlorotrifluoroethane	ND ug/L		1.0	1		03/01/13 17:00	76-13-1	
1,2,4-Trimethylbenzene	ND ug/L		1.0	1		03/01/13 17:00	95-63-6	
1,3,5-Trimethylbenzene	ND ug/L		1.0	1		03/01/13 17:00	108-67-8	
Vinyl chloride	ND ug/L		0.40	1		03/01/13 17:00	75-01-4	
Xylene (Total)	ND ug/L		3.0	1		03/01/13 17:00	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	105 %		75-125	1		03/01/13 17:00	1868-53-7	
1,2-Dichloroethane-d4 (S)	108 %		75-125	1		03/01/13 17:00	17060-07-0	
Toluene-d8 (S)	99 %		75-125	1		03/01/13 17:00	2037-26-5	
4-Bromofluorobenzene (S)	100 %		75-125	1		03/01/13 17:00	460-00-4	

Sample: MW-15		Lab ID: 10221058009	Collected: 02/25/13 16:50	Received: 02/26/13 14:18	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 VOC		Analytical Method: EPA 8260						
Acetone	ND ug/L		20.0	1		03/01/13 15:37	67-64-1	
Allyl chloride	ND ug/L		4.0	1		03/01/13 15:37	107-05-1	
Benzene	ND ug/L		1.0	1		03/01/13 15:37	71-43-2	
Bromobenzene	ND ug/L		1.0	1		03/01/13 15:37	108-86-1	
Bromochloromethane	ND ug/L		1.0	1		03/01/13 15:37	74-97-5	
Bromodichloromethane	ND ug/L		1.0	1		03/01/13 15:37	75-27-4	
Bromoform	ND ug/L		4.0	1		03/01/13 15:37	75-25-2	
Bromomethane	ND ug/L		4.0	1		03/01/13 15:37	74-83-9	
2-Butanone (MEK)	ND ug/L		5.0	1		03/01/13 15:37	78-93-3	
n-Butylbenzene	ND ug/L		1.0	1		03/01/13 15:37	104-51-8	
sec-Butylbenzene	ND ug/L		1.0	1		03/01/13 15:37	135-98-8	
tert-Butylbenzene	ND ug/L		1.0	1		03/01/13 15:37	98-06-6	
Carbon tetrachloride	ND ug/L		1.0	1		03/01/13 15:37	56-23-5	
Chlorobenzene	ND ug/L		1.0	1		03/01/13 15:37	108-90-7	
Chloroethane	ND ug/L		1.0	1		03/01/13 15:37	75-00-3	
Chloroform	ND ug/L		1.0	1		03/01/13 15:37	67-66-3	
Chloromethane	ND ug/L		4.0	1		03/01/13 15:37	74-87-3	
2-Chlorotoluene	ND ug/L		1.0	1		03/01/13 15:37	95-49-8	
4-Chlorotoluene	ND ug/L		1.0	1		03/01/13 15:37	106-43-4	
1,2-Dibromo-3-chloropropane	ND ug/L		4.0	1		03/01/13 15:37	96-12-8	
Dibromochloromethane	ND ug/L		1.0	1		03/01/13 15:37	124-48-1	
1,2-Dibromoethane (EDB)	ND ug/L		1.0	1		03/01/13 15:37	106-93-4	
Dibromomethane	ND ug/L		4.0	1		03/01/13 15:37	74-95-3	
1,2-Dichlorobenzene	ND ug/L		1.0	1		03/01/13 15:37	95-50-1	
1,3-Dichlorobenzene	ND ug/L		1.0	1		03/01/13 15:37	541-73-1	
1,4-Dichlorobenzene	ND ug/L		1.0	1		03/01/13 15:37	106-46-7	
Dichlorodifluoromethane	ND ug/L		1.0	1		03/01/13 15:37	75-71-8	
1,1-Dichloroethane	ND ug/L		1.0	1		03/01/13 15:37	75-34-3	
1,2-Dichloroethane	ND ug/L		1.0	1		03/01/13 15:37	107-06-2	
1,1-Dichloroethene	ND ug/L		1.0	1		03/01/13 15:37	75-35-4	

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ANALYTICAL RESULTS

Project: CRC City of Rochester

Pace Project No.: 10221058

Sample: MW-15		Lab ID: 10221058009	Collected: 02/25/13 16:50	Received: 02/26/13 14:18	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 VOC		Analytical Method: EPA 8260						
cis-1,2-Dichloroethene	ND ug/L		1.0	1		03/01/13 15:37	156-59-2	
trans-1,2-Dichloroethene	ND ug/L		1.0	1		03/01/13 15:37	156-60-5	
Dichlorofluoromethane	ND ug/L		1.0	1		03/01/13 15:37	75-43-4	
1,2-Dichloropropane	ND ug/L		4.0	1		03/01/13 15:37	78-87-5	
1,3-Dichloropropane	ND ug/L		1.0	1		03/01/13 15:37	142-28-9	
2,2-Dichloropropane	ND ug/L		4.0	1		03/01/13 15:37	594-20-7	
1,1-Dichloropropene	ND ug/L		1.0	1		03/01/13 15:37	563-58-6	
cis-1,3-Dichloropropene	ND ug/L		4.0	1		03/01/13 15:37	10061-01-5	
trans-1,3-Dichloropropene	ND ug/L		4.0	1		03/01/13 15:37	10061-02-6	
Diethyl ether (Ethyl ether)	ND ug/L		4.0	1		03/01/13 15:37	60-29-7	
Ethylbenzene	ND ug/L		1.0	1		03/01/13 15:37	100-41-4	
Hexachloro-1,3-butadiene	ND ug/L		5.0	1		03/01/13 15:37	87-68-3	
Isopropylbenzene (Cumene)	ND ug/L		1.0	1		03/01/13 15:37	98-82-8	
p-Isopropyltoluene	ND ug/L		1.0	1		03/01/13 15:37	99-87-6	
Methylene Chloride	ND ug/L		4.0	1		03/01/13 15:37	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND ug/L		5.0	1		03/01/13 15:37	108-10-1	
Methyl-tert-butyl ether	ND ug/L		1.0	1		03/01/13 15:37	1634-04-4	
Naphthalene	ND ug/L		4.0	1		03/01/13 15:37	91-20-3	
n-Propylbenzene	ND ug/L		1.0	1		03/01/13 15:37	103-65-1	
Styrene	ND ug/L		1.0	1		03/01/13 15:37	100-42-5	
1,1,1,2-Tetrachloroethane	ND ug/L		1.0	1		03/01/13 15:37	630-20-6	
1,1,2,2-Tetrachloroethane	ND ug/L		1.0	1		03/01/13 15:37	79-34-5	
Tetrachloroethene	ND ug/L		1.0	1		03/01/13 15:37	127-18-4	
Tetrahydrofuran	ND ug/L		10.0	1		03/01/13 15:37	109-99-9	
Toluene	ND ug/L		1.0	1		03/01/13 15:37	108-88-3	
1,2,3-Trichlorobenzene	ND ug/L		1.0	1		03/01/13 15:37	87-61-6	
1,2,4-Trichlorobenzene	ND ug/L		1.0	1		03/01/13 15:37	120-82-1	
1,1,1-Trichloroethane	ND ug/L		1.0	1		03/01/13 15:37	71-55-6	
1,1,2-Trichloroethane	ND ug/L		1.0	1		03/01/13 15:37	79-00-5	
Trichloroethene	ND ug/L		1.0	1		03/01/13 15:37	79-01-6	
Trichlorofluoromethane	ND ug/L		1.0	1		03/01/13 15:37	75-69-4	
1,2,3-Trichloropropane	ND ug/L		4.0	1		03/01/13 15:37	96-18-4	
1,1,2-Trichlorotrifluoroethane	ND ug/L		1.0	1		03/01/13 15:37	76-13-1	
1,2,4-Trimethylbenzene	ND ug/L		1.0	1		03/01/13 15:37	95-63-6	
1,3,5-Trimethylbenzene	ND ug/L		1.0	1		03/01/13 15:37	108-67-8	
Vinyl chloride	ND ug/L		0.40	1		03/01/13 15:37	75-01-4	
Xylene (Total)	ND ug/L		3.0	1		03/01/13 15:37	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	107 %		75-125	1		03/01/13 15:37	1868-53-7	
1,2-Dichloroethane-d4 (S)	109 %		75-125	1		03/01/13 15:37	17060-07-0	
Toluene-d8 (S)	100 %		75-125	1		03/01/13 15:37	2037-26-5	
4-Bromofluorobenzene (S)	101 %		75-125	1		03/01/13 15:37	460-00-4	

ANALYTICAL RESULTS

Project: CRC City of Rochester

Pace Project No.: 10221058

Sample: MW-16		Lab ID: 10221058010	Collected: 02/25/13 19:00	Received: 02/26/13 14:18	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 VOC		Analytical Method: EPA 8260						
Acetone	ND	ug/L	20.0	1		03/01/13 17:20	67-64-1	
Allyl chloride	ND	ug/L	4.0	1		03/01/13 17:20	107-05-1	
Benzene	ND	ug/L	1.0	1		03/01/13 17:20	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		03/01/13 17:20	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		03/01/13 17:20	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		03/01/13 17:20	75-27-4	
Bromoform	ND	ug/L	4.0	1		03/01/13 17:20	75-25-2	
Bromomethane	ND	ug/L	4.0	1		03/01/13 17:20	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	1		03/01/13 17:20	78-93-3	
n-Butylbenzene	ND	ug/L	1.0	1		03/01/13 17:20	104-51-8	
sec-Butylbenzene	ND	ug/L	1.0	1		03/01/13 17:20	135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	1		03/01/13 17:20	98-06-6	
Carbon tetrachloride	ND	ug/L	1.0	1		03/01/13 17:20	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		03/01/13 17:20	108-90-7	
Chloroethane	ND	ug/L	1.0	1		03/01/13 17:20	75-00-3	
Chloroform	1.0	ug/L	1.0	1		03/01/13 17:20	67-66-3	
Chloromethane	ND	ug/L	4.0	1		03/01/13 17:20	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		03/01/13 17:20	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		03/01/13 17:20	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	4.0	1		03/01/13 17:20	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		03/01/13 17:20	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		03/01/13 17:20	106-93-4	
Dibromomethane	ND	ug/L	4.0	1		03/01/13 17:20	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		03/01/13 17:20	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		03/01/13 17:20	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		03/01/13 17:20	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		03/01/13 17:20	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		03/01/13 17:20	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		03/01/13 17:20	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		03/01/13 17:20	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		03/01/13 17:20	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		03/01/13 17:20	156-60-5	
Dichlorofluoromethane	ND	ug/L	1.0	1		03/01/13 17:20	75-43-4	
1,2-Dichloropropane	ND	ug/L	4.0	1		03/01/13 17:20	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		03/01/13 17:20	142-28-9	
2,2-Dichloropropane	ND	ug/L	4.0	1		03/01/13 17:20	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		03/01/13 17:20	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	4.0	1		03/01/13 17:20	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	4.0	1		03/01/13 17:20	10061-02-6	
Diethyl ether (Ethyl ether)	ND	ug/L	4.0	1		03/01/13 17:20	60-29-7	
Ethylbenzene	ND	ug/L	1.0	1		03/01/13 17:20	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	5.0	1		03/01/13 17:20	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		03/01/13 17:20	98-82-8	
p-Isopropyltoluene	ND	ug/L	1.0	1		03/01/13 17:20	99-87-6	
Methylene Chloride	ND	ug/L	4.0	1		03/01/13 17:20	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		03/01/13 17:20	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		03/01/13 17:20	1634-04-4	

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ANALYTICAL RESULTS

Project: CRC City of Rochester

Sample Project No.: 10221058

Sample: MW-16		Lab ID: 10221058010	Collected: 02/25/13 19:00	Received: 02/26/13 14:18	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		03/01/13 17:20	91-20-3	
n-Propylbenzene	ND ug/L		1.0	1		03/01/13 17:20	103-65-1	
Styrene	ND ug/L		1.0	1		03/01/13 17:20	100-42-5	
1,1,1,2-Tetrachloroethane	ND ug/L		1.0	1		03/01/13 17:20	630-20-6	
1,1,2,2-Tetrachloroethane	ND ug/L		1.0	1		03/01/13 17:20	79-34-5	
Tetrachloroethene	8.0 ug/L		1.0	1		03/01/13 17:20	127-18-4	
Tetrahydrofuran	ND ug/L		10.0	1		03/01/13 17:20	109-99-9	
Toluene	ND ug/L		1.0	1		03/01/13 17:20	108-88-3	
1,2,3-Trichlorobenzene	ND ug/L		1.0	1		03/01/13 17:20	87-61-6	
1,2,4-Trichlorobenzene	ND ug/L		1.0	1		03/01/13 17:20	120-82-1	
1,1,1-Trichloroethane	ND ug/L		1.0	1		03/01/13 17:20	71-55-6	
1,1,2-Trichloroethane	ND ug/L		1.0	1		03/01/13 17:20	79-00-5	
Trichloroethene	ND ug/L		1.0	1		03/01/13 17:20	79-01-6	
Trichlorofluoromethane	ND ug/L		1.0	1		03/01/13 17:20	75-69-4	
1,2,3-Trichloropropane	ND ug/L		4.0	1		03/01/13 17:20	96-18-4	
1,1,2-Trichlorotrifluoroethane	ND ug/L		1.0	1		03/01/13 17:20	76-13-1	
1,2,4-Trimethylbenzene	ND ug/L		1.0	1		03/01/13 17:20	95-63-6	
1,3,5-Trimethylbenzene	ND ug/L		1.0	1		03/01/13 17:20	108-67-8	
Vinyl chloride	ND ug/L		0.40	1		03/01/13 17:20	75-01-4	
Xylene (Total)	ND ug/L		3.0	1		03/01/13 17:20	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	106 %		75-125	1		03/01/13 17:20	1868-53-7	
1,2-Dichloroethane-d4 (S)	108 %		75-125	1		03/01/13 17:20	17060-07-0	
Toluene-d8 (S)	100 %		75-125	1		03/01/13 17:20	2037-26-5	
4-Bromofluorobenzene (S)	102 %		75-125	1		03/01/13 17:20	460-00-4	

Sample: MW-17		Lab ID: 10221058011	Collected: 02/25/13 17:50	Received: 02/26/13 14:18	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 VOC		Analytical Method: EPA 8260						
Acetone	ND ug/L		20.0	1		03/01/13 17:41	67-64-1	
Allyl chloride	ND ug/L		4.0	1		03/01/13 17:41	107-05-1	
Benzene	ND ug/L		1.0	1		03/01/13 17:41	71-43-2	
Bromobenzene	ND ug/L		1.0	1		03/01/13 17:41	108-86-1	
Bromochloromethane	ND ug/L		1.0	1		03/01/13 17:41	74-97-5	
Bromodichloromethane	ND ug/L		1.0	1		03/01/13 17:41	75-27-4	
Bromoform	ND ug/L		4.0	1		03/01/13 17:41	75-25-2	
Bromomethane	ND ug/L		4.0	1		03/01/13 17:41	74-83-9	
2-Butanone (MEK)	ND ug/L		5.0	1		03/01/13 17:41	78-93-3	
n-Butylbenzene	ND ug/L		1.0	1		03/01/13 17:41	104-51-8	
sec-Butylbenzene	ND ug/L		1.0	1		03/01/13 17:41	135-98-8	
tert-Butylbenzene	ND ug/L		1.0	1		03/01/13 17:41	98-06-6	
Carbon tetrachloride	ND ug/L		1.0	1		03/01/13 17:41	56-23-5	
Chlorobenzene	ND ug/L		1.0	1		03/01/13 17:41	108-90-7	
Chloroethane	ND ug/L		1.0	1		03/01/13 17:41	75-00-3	

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ANALYTICAL RESULTS

Project: CRC City of Rochester

Pace Project No.: 10221058

Sample: MW-17	Lab ID: 10221058011	Collected: 02/25/13 17:50	Received: 02/26/13 14:18	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 VOC		Analytical Method: EPA 8260						
Chloroform	1.3 ug/L		1.0	1		03/01/13 17:41	67-66-3	
Chloromethane	ND ug/L		4.0	1		03/01/13 17:41	74-87-3	
2-Chlorotoluene	ND ug/L		1.0	1		03/01/13 17:41	95-49-8	
4-Chlorotoluene	ND ug/L		1.0	1		03/01/13 17:41	106-43-4	
1,2-Dibromo-3-chloropropane	ND ug/L		4.0	1		03/01/13 17:41	96-12-8	
Dibromochloromethane	ND ug/L		1.0	1		03/01/13 17:41	124-48-1	
1,2-Dibromoethane (EDB)	ND ug/L		1.0	1		03/01/13 17:41	106-93-4	
Dibromomethane	ND ug/L		4.0	1		03/01/13 17:41	74-95-3	
1,2-Dichlorobenzene	ND ug/L		1.0	1		03/01/13 17:41	95-50-1	
1,3-Dichlorobenzene	ND ug/L		1.0	1		03/01/13 17:41	541-73-1	
1,4-Dichlorobenzene	ND ug/L		1.0	1		03/01/13 17:41	106-46-7	
Dichlorodifluoromethane	ND ug/L		1.0	1		03/01/13 17:41	75-71-8	
1,1-Dichloroethane	ND ug/L		1.0	1		03/01/13 17:41	75-34-3	
1,2-Dichloroethane	ND ug/L		1.0	1		03/01/13 17:41	107-06-2	
1,1-Dichloroethene	ND ug/L		1.0	1		03/01/13 17:41	75-35-4	
cis-1,2-Dichloroethene	ND ug/L		1.0	1		03/01/13 17:41	156-59-2	
trans-1,2-Dichloroethene	ND ug/L		1.0	1		03/01/13 17:41	156-60-5	
Dichlorofluoromethane	ND ug/L		1.0	1		03/01/13 17:41	75-43-4	
1,2-Dichloropropane	ND ug/L		4.0	1		03/01/13 17:41	78-87-5	
1,3-Dichloropropane	ND ug/L		1.0	1		03/01/13 17:41	142-28-9	
2,2-Dichloropropane	ND ug/L		4.0	1		03/01/13 17:41	594-20-7	
1,1-Dichloropropene	ND ug/L		1.0	1		03/01/13 17:41	563-58-6	
cis-1,3-Dichloropropene	ND ug/L		4.0	1		03/01/13 17:41	10061-01-5	
trans-1,3-Dichloropropene	ND ug/L		4.0	1		03/01/13 17:41	10061-02-6	
Diethyl ether (Ethyl ether)	ND ug/L		4.0	1		03/01/13 17:41	60-29-7	
Ethylbenzene	ND ug/L		1.0	1		03/01/13 17:41	100-41-4	
Hexachloro-1,3-butadiene	ND ug/L		5.0	1		03/01/13 17:41	87-68-3	
Isopropylbenzene (Cumene)	ND ug/L		1.0	1		03/01/13 17:41	98-82-8	
p-Isopropyltoluene	ND ug/L		1.0	1		03/01/13 17:41	99-87-6	
Methylene Chloride	ND ug/L		4.0	1		03/01/13 17:41	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND ug/L		5.0	1		03/01/13 17:41	108-10-1	
Methyl-tert-butyl ether	ND ug/L		1.0	1		03/01/13 17:41	1634-04-4	
Naphthalene	ND ug/L		4.0	1		03/01/13 17:41	91-20-3	
n-Propylbenzene	ND ug/L		1.0	1		03/01/13 17:41	103-65-1	
Styrene	ND ug/L		1.0	1		03/01/13 17:41	100-42-5	
1,1,1,2-Tetrachloroethane	ND ug/L		1.0	1		03/01/13 17:41	630-20-6	
1,1,2,2-Tetrachloroethane	ND ug/L		1.0	1		03/01/13 17:41	79-34-5	
Tetrachloroethene	49.9 ug/L		1.0	1		03/01/13 17:41	127-18-4	
Tetrahydrofuran	ND ug/L		10.0	1		03/01/13 17:41	109-99-9	
Toluene	ND ug/L		1.0	1		03/01/13 17:41	108-88-3	
1,2,3-Trichlorobenzene	ND ug/L		1.0	1		03/01/13 17:41	87-61-6	
1,2,4-Trichlorobenzene	ND ug/L		1.0	1		03/01/13 17:41	120-82-1	
1,1,1-Trichloroethane	ND ug/L		1.0	1		03/01/13 17:41	71-55-6	
1,1,2-Trichloroethane	ND ug/L		1.0	1		03/01/13 17:41	79-00-5	
Trichloroethene	ND ug/L		1.0	1		03/01/13 17:41	79-01-6	
Trichlorofluoromethane	ND ug/L		1.0	1		03/01/13 17:41	75-69-4	
1,2,3-Trichloropropane	ND ug/L		4.0	1		03/01/13 17:41	96-18-4	

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ANALYTICAL RESULTS

Project: CRC City of Rochester

Pace Project No.: 10221058

Sample: MW-17		Lab ID: 10221058011	Collected: 02/25/13 17:50	Received: 02/26/13 14:18	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 VOC		Analytical Method: EPA 8260						
1,1,2-Trichlorotrifluoroethane	7.0 ug/L		1.0	1		03/01/13 17:41	76-13-1	
1,2,4-Trimethylbenzene	ND ug/L		1.0	1		03/01/13 17:41	95-63-6	
1,3,5-Trimethylbenzene	ND ug/L		1.0	1		03/01/13 17:41	108-67-8	
Vinyl chloride	ND ug/L		0.40	1		03/01/13 17:41	75-01-4	
Xylene (Total)	ND ug/L		3.0	1		03/01/13 17:41	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	106 %		75-125	1		03/01/13 17:41	1868-53-7	
1,2-Dichloroethane-d4 (S)	110 %		75-125	1		03/01/13 17:41	17060-07-0	
Toluene-d8 (S)	100 %		75-125	1		03/01/13 17:41	2037-26-5	
4-Bromofluorobenzene (S)	101 %		75-125	1		03/01/13 17:41	460-00-4	

Sample: MW-18		Lab ID: 10221058012	Collected: 02/25/13 17:30	Received: 02/26/13 14:18	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 VOC		Analytical Method: EPA 8260						
Acetone	ND ug/L		20.0	1		03/01/13 14:55	67-64-1	
Allyl chloride	ND ug/L		4.0	1		03/01/13 14:55	107-05-1	
Benzene	ND ug/L		1.0	1		03/01/13 14:55	71-43-2	
Bromobenzene	ND ug/L		1.0	1		03/01/13 14:55	108-86-1	
Bromochloromethane	ND ug/L		1.0	1		03/01/13 14:55	74-97-5	
Bromodichloromethane	ND ug/L		1.0	1		03/01/13 14:55	75-27-4	
Bromoform	ND ug/L		4.0	1		03/01/13 14:55	75-25-2	
Bromomethane	ND ug/L		4.0	1		03/01/13 14:55	74-83-9	
2-Butanone (MEK)	ND ug/L		5.0	1		03/01/13 14:55	78-93-3	
n-Butylbenzene	ND ug/L		1.0	1		03/01/13 14:55	104-51-8	
sec-Butylbenzene	ND ug/L		1.0	1		03/01/13 14:55	135-98-8	
tert-Butylbenzene	ND ug/L		1.0	1		03/01/13 14:55	98-06-6	
Carbon tetrachloride	ND ug/L		1.0	1		03/01/13 14:55	56-23-5	
Chlorobenzene	ND ug/L		1.0	1		03/01/13 14:55	108-90-7	
Chloroethane	ND ug/L		1.0	1		03/01/13 14:55	75-00-3	
Chloroform	ND ug/L		1.0	1		03/01/13 14:55	67-66-3	
Chloromethane	ND ug/L		4.0	1		03/01/13 14:55	74-87-3	
2-Chlorotoluene	ND ug/L		1.0	1		03/01/13 14:55	95-49-8	
4-Chlorotoluene	ND ug/L		1.0	1		03/01/13 14:55	106-43-4	
1,2-Dibromo-3-chloropropane	ND ug/L		4.0	1		03/01/13 14:55	96-12-8	
Dibromochloromethane	ND ug/L		1.0	1		03/01/13 14:55	124-48-1	
1,2-Dibromoethane (EDB)	ND ug/L		1.0	1		03/01/13 14:55	106-93-4	
Dibromomethane	ND ug/L		4.0	1		03/01/13 14:55	74-95-3	
1,2-Dichlorobenzene	ND ug/L		1.0	1		03/01/13 14:55	95-50-1	
1,3-Dichlorobenzene	ND ug/L		1.0	1		03/01/13 14:55	541-73-1	
1,4-Dichlorobenzene	ND ug/L		1.0	1		03/01/13 14:55	106-46-7	
Dichlorodifluoromethane	ND ug/L		1.0	1		03/01/13 14:55	75-71-8	
1,1-Dichloroethane	ND ug/L		1.0	1		03/01/13 14:55	75-34-3	
1,2-Dichloroethane	ND ug/L		1.0	1		03/01/13 14:55	107-06-2	
1,1-Dichloroethene	ND ug/L		1.0	1		03/01/13 14:55	75-35-4	

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ANALYTICAL RESULTS

Project: CRC City of Rochester

Pace Project No.: 10221058

Sample: MW-18	Lab ID: 10221058012	Collected: 02/25/13 17:30	Received: 02/26/13 14:18	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 VOC		Analytical Method: EPA 8260						
cis-1,2-Dichloroethene	ND ug/L		1.0	1		03/01/13 14:55	156-59-2	
trans-1,2-Dichloroethene	ND ug/L		1.0	1		03/01/13 14:55	156-60-5	
Dichlorofluoromethane	ND ug/L		1.0	1		03/01/13 14:55	75-43-4	
1,2-Dichloropropane	ND ug/L		4.0	1		03/01/13 14:55	78-87-5	
1,3-Dichloropropane	ND ug/L		1.0	1		03/01/13 14:55	142-28-9	
2,2-Dichloropropane	ND ug/L		4.0	1		03/01/13 14:55	594-20-7	
1,1-Dichloropropene	ND ug/L		1.0	1		03/01/13 14:55	563-58-6	
cis-1,3-Dichloropropene	ND ug/L		4.0	1		03/01/13 14:55	10061-01-5	
trans-1,3-Dichloropropene	ND ug/L		4.0	1		03/01/13 14:55	10061-02-6	
Diethyl ether (Ethyl ether)	ND ug/L		4.0	1		03/01/13 14:55	60-29-7	
Ethylbenzene	ND ug/L		1.0	1		03/01/13 14:55	100-41-4	
Hexachloro-1,3-butadiene	ND ug/L		5.0	1		03/01/13 14:55	87-68-3	
Isopropylbenzene (Cumene)	ND ug/L		1.0	1		03/01/13 14:55	98-82-8	
p-Isopropyltoluene	ND ug/L		1.0	1		03/01/13 14:55	99-87-6	
Methylene Chloride	ND ug/L		4.0	1		03/01/13 14:55	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND ug/L		5.0	1		03/01/13 14:55	108-10-1	
Methyl-tert-butyl ether	ND ug/L		1.0	1		03/01/13 14:55	1634-04-4	
Naphthalene	ND ug/L		4.0	1		03/01/13 14:55	91-20-3	
n-Propylbenzene	ND ug/L		1.0	1		03/01/13 14:55	103-65-1	
Styrene	ND ug/L		1.0	1		03/01/13 14:55	100-42-5	
1,1,1,2-Tetrachloroethane	ND ug/L		1.0	1		03/01/13 14:55	630-20-6	
1,1,2,2-Tetrachloroethane	ND ug/L		1.0	1		03/01/13 14:55	79-34-5	
Tetrachloroethene	2.3 ug/L		1.0	1		03/01/13 14:55	127-18-4	
Tetrahydrofuran	ND ug/L		10.0	1		03/01/13 14:55	109-99-9	
Toluene	ND ug/L		1.0	1		03/01/13 14:55	108-88-3	
1,2,3-Trichlorobenzene	ND ug/L		1.0	1		03/01/13 14:55	87-61-6	
1,2,4-Trichlorobenzene	ND ug/L		1.0	1		03/01/13 14:55	120-82-1	
1,1,1-Trichloroethane	ND ug/L		1.0	1		03/01/13 14:55	71-55-6	
1,1,2-Trichloroethane	ND ug/L		1.0	1		03/01/13 14:55	79-00-5	
Trichloroethene	ND ug/L		1.0	1		03/01/13 14:55	79-01-6	
Trichlorofluoromethane	ND ug/L		1.0	1		03/01/13 14:55	75-69-4	
1,2,3-Trichloropropane	ND ug/L		4.0	1		03/01/13 14:55	96-18-4	
1,1,2-Trichlorotrifluoroethane	ND ug/L		1.0	1		03/01/13 14:55	76-13-1	
1,2,4-Trimethylbenzene	ND ug/L		1.0	1		03/01/13 14:55	95-63-6	
1,3,5-Trimethylbenzene	ND ug/L		1.0	1		03/01/13 14:55	108-67-8	
Vinyl chloride	ND ug/L		0.40	1		03/01/13 14:55	75-01-4	
Xylene (Total)	ND ug/L		3.0	1		03/01/13 14:55	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	106 %		75-125	1		03/01/13 14:55	1868-53-7	
1,2-Dichloroethane-d4 (S)	110 %		75-125	1		03/01/13 14:55	17060-07-0	
Toluene-d8 (S)	100 %		75-125	1		03/01/13 14:55	2037-26-5	
4-Bromofluorobenzene (S)	101 %		75-125	1		03/01/13 14:55	460-00-4	

ANALYTICAL RESULTS

Project: CRC City of Rochester

Pace Project No.: 10221058

Sample: MW-19		Lab ID: 10221058013	Collected: 02/25/13 16:00	Received: 02/26/13 14:18	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 VOC		Analytical Method: EPA 8260						
Acetone	ND	ug/L	20.0	1		03/01/13 18:01	67-64-1	
Allyl chloride	ND	ug/L	4.0	1		03/01/13 18:01	107-05-1	
Benzene	ND	ug/L	1.0	1		03/01/13 18:01	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		03/01/13 18:01	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		03/01/13 18:01	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		03/01/13 18:01	75-27-4	
Bromoform	ND	ug/L	4.0	1		03/01/13 18:01	75-25-2	
Bromomethane	ND	ug/L	4.0	1		03/01/13 18:01	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	1		03/01/13 18:01	78-93-3	
n-Butylbenzene	ND	ug/L	1.0	1		03/01/13 18:01	104-51-8	
sec-Butylbenzene	ND	ug/L	1.0	1		03/01/13 18:01	135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	1		03/01/13 18:01	98-06-6	
Carbon tetrachloride	ND	ug/L	1.0	1		03/01/13 18:01	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		03/01/13 18:01	108-90-7	
Chloroethane	ND	ug/L	1.0	1		03/01/13 18:01	75-00-3	
Chloroform	ND	ug/L	1.0	1		03/01/13 18:01	67-66-3	
Chloromethane	ND	ug/L	4.0	1		03/01/13 18:01	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		03/01/13 18:01	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		03/01/13 18:01	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	4.0	1		03/01/13 18:01	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		03/01/13 18:01	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		03/01/13 18:01	106-93-4	
Dibromomethane	ND	ug/L	4.0	1		03/01/13 18:01	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		03/01/13 18:01	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		03/01/13 18:01	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		03/01/13 18:01	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		03/01/13 18:01	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		03/01/13 18:01	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		03/01/13 18:01	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		03/01/13 18:01	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		03/01/13 18:01	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		03/01/13 18:01	156-60-5	
Dichlorofluoromethane	ND	ug/L	1.0	1		03/01/13 18:01	75-43-4	
1,2-Dichloropropane	ND	ug/L	4.0	1		03/01/13 18:01	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		03/01/13 18:01	142-28-9	
2,2-Dichloropropane	ND	ug/L	4.0	1		03/01/13 18:01	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		03/01/13 18:01	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	4.0	1		03/01/13 18:01	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	4.0	1		03/01/13 18:01	10061-02-6	
Diethyl ether (Ethyl ether)	ND	ug/L	4.0	1		03/01/13 18:01	60-29-7	
Ethylbenzene	ND	ug/L	1.0	1		03/01/13 18:01	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	5.0	1		03/01/13 18:01	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		03/01/13 18:01	98-82-8	
p-Isopropyltoluene	ND	ug/L	1.0	1		03/01/13 18:01	99-87-6	
Methylene Chloride	ND	ug/L	4.0	1		03/01/13 18:01	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		03/01/13 18:01	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		03/01/13 18:01	1634-04-4	

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ANALYTICAL RESULTS

Project: CRC City of Rochester

Sample Project No.: 10221058

Sample: MW-19		Lab ID: 10221058013	Collected: 02/25/13 16:00	Received: 02/26/13 14:18	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		03/01/13 18:01	91-20-3	
n-Propylbenzene	ND ug/L		1.0	1		03/01/13 18:01	103-65-1	
Styrene	ND ug/L		1.0	1		03/01/13 18:01	100-42-5	
1,1,1,2-Tetrachloroethane	ND ug/L		1.0	1		03/01/13 18:01	630-20-6	
1,1,2,2-Tetrachloroethane	ND ug/L		1.0	1		03/01/13 18:01	79-34-5	
Tetrachloroethene	ND ug/L		1.0	1		03/01/13 18:01	127-18-4	
Tetrahydrofuran	ND ug/L		10.0	1		03/01/13 18:01	109-99-9	
Toluene	ND ug/L		1.0	1		03/01/13 18:01	108-88-3	
1,2,3-Trichlorobenzene	ND ug/L		1.0	1		03/01/13 18:01	87-61-6	
1,2,4-Trichlorobenzene	ND ug/L		1.0	1		03/01/13 18:01	120-82-1	
1,1,1-Trichloroethane	ND ug/L		1.0	1		03/01/13 18:01	71-55-6	
1,1,2-Trichloroethane	ND ug/L		1.0	1		03/01/13 18:01	79-00-5	
Trichloroethene	ND ug/L		1.0	1		03/01/13 18:01	79-01-6	
Trichlorofluoromethane	ND ug/L		1.0	1		03/01/13 18:01	75-69-4	
1,2,3-Trichloropropane	ND ug/L		4.0	1		03/01/13 18:01	96-18-4	
1,1,2-Trichlorotrifluoroethane	ND ug/L		1.0	1		03/01/13 18:01	76-13-1	
1,2,4-Trimethylbenzene	ND ug/L		1.0	1		03/01/13 18:01	95-63-6	
1,3,5-Trimethylbenzene	ND ug/L		1.0	1		03/01/13 18:01	108-67-8	
Vinyl chloride	ND ug/L		0.40	1		03/01/13 18:01	75-01-4	
Xylene (Total)	ND ug/L		3.0	1		03/01/13 18:01	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	106 %		75-125	1		03/01/13 18:01	1868-53-7	
1,2-Dichloroethane-d4 (S)	110 %		75-125	1		03/01/13 18:01	17060-07-0	
Toluene-d8 (S)	99 %		75-125	1		03/01/13 18:01	2037-26-5	
4-Bromofluorobenzene (S)	101 %		75-125	1		03/01/13 18:01	460-00-4	

Sample: MW-20		Lab ID: 10221058014	Collected: 02/25/13 18:30	Received: 02/26/13 14:18	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 VOC		Analytical Method: EPA 8260						
Acetone	ND ug/L		20.0	1		03/01/13 18:22	67-64-1	
Allyl chloride	ND ug/L		4.0	1		03/01/13 18:22	107-05-1	
Benzene	ND ug/L		1.0	1		03/01/13 18:22	71-43-2	
Bromobenzene	ND ug/L		1.0	1		03/01/13 18:22	108-86-1	
Bromochloromethane	ND ug/L		1.0	1		03/01/13 18:22	74-97-5	
Bromodichloromethane	ND ug/L		1.0	1		03/01/13 18:22	75-27-4	
Bromoform	ND ug/L		4.0	1		03/01/13 18:22	75-25-2	
Bromomethane	ND ug/L		4.0	1		03/01/13 18:22	74-83-9	
2-Butanone (MEK)	ND ug/L		5.0	1		03/01/13 18:22	78-93-3	
n-Butylbenzene	ND ug/L		1.0	1		03/01/13 18:22	104-51-8	
sec-Butylbenzene	ND ug/L		1.0	1		03/01/13 18:22	135-98-8	
tert-Butylbenzene	ND ug/L		1.0	1		03/01/13 18:22	98-06-6	
Carbon tetrachloride	ND ug/L		1.0	1		03/01/13 18:22	56-23-5	
Chlorobenzene	ND ug/L		1.0	1		03/01/13 18:22	108-90-7	
Chloroethane	ND ug/L		1.0	1		03/01/13 18:22	75-00-3	

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ANALYTICAL RESULTS

Project: CRC City of Rochester

Sample Project No.: 10221058

Sample: MW-20	Lab ID: 10221058014	Collected: 02/25/13 18:30	Received: 02/26/13 14:18	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 VOC		Analytical Method: EPA 8260						
Chloroform	ND ug/L		1.0	1		03/01/13 18:22	67-66-3	
Chloromethane	ND ug/L		4.0	1		03/01/13 18:22	74-87-3	
2-Chlorotoluene	ND ug/L		1.0	1		03/01/13 18:22	95-49-8	
4-Chlorotoluene	ND ug/L		1.0	1		03/01/13 18:22	106-43-4	
1,2-Dibromo-3-chloropropane	ND ug/L		4.0	1		03/01/13 18:22	96-12-8	
Dibromochloromethane	ND ug/L		1.0	1		03/01/13 18:22	124-48-1	
1,2-Dibromoethane (EDB)	ND ug/L		1.0	1		03/01/13 18:22	106-93-4	
Dibromomethane	ND ug/L		4.0	1		03/01/13 18:22	74-95-3	
1,2-Dichlorobenzene	ND ug/L		1.0	1		03/01/13 18:22	95-50-1	
1,3-Dichlorobenzene	ND ug/L		1.0	1		03/01/13 18:22	541-73-1	
1,4-Dichlorobenzene	ND ug/L		1.0	1		03/01/13 18:22	106-46-7	
Dichlorodifluoromethane	ND ug/L		1.0	1		03/01/13 18:22	75-71-8	
1,1-Dichloroethane	ND ug/L		1.0	1		03/01/13 18:22	75-34-3	
1,2-Dichloroethane	ND ug/L		1.0	1		03/01/13 18:22	107-06-2	
1,1-Dichloroethene	ND ug/L		1.0	1		03/01/13 18:22	75-35-4	
cis-1,2-Dichloroethene	ND ug/L		1.0	1		03/01/13 18:22	156-59-2	
trans-1,2-Dichloroethene	ND ug/L		1.0	1		03/01/13 18:22	156-60-5	
Dichlorofluoromethane	ND ug/L		1.0	1		03/01/13 18:22	75-43-4	
1,2-Dichloropropane	ND ug/L		4.0	1		03/01/13 18:22	78-87-5	
1,3-Dichloropropane	ND ug/L		1.0	1		03/01/13 18:22	142-28-9	
2,2-Dichloropropane	ND ug/L		4.0	1		03/01/13 18:22	594-20-7	
1,1-Dichloropropene	ND ug/L		1.0	1		03/01/13 18:22	563-58-6	
cis-1,3-Dichloropropene	ND ug/L		4.0	1		03/01/13 18:22	10061-01-5	
trans-1,3-Dichloropropene	ND ug/L		4.0	1		03/01/13 18:22	10061-02-6	
Diethyl ether (Ethyl ether)	ND ug/L		4.0	1		03/01/13 18:22	60-29-7	
Ethylbenzene	ND ug/L		1.0	1		03/01/13 18:22	100-41-4	
Hexachloro-1,3-butadiene	ND ug/L		5.0	1		03/01/13 18:22	87-68-3	
Isopropylbenzene (Cumene)	ND ug/L		1.0	1		03/01/13 18:22	98-82-8	
p-Isopropyltoluene	ND ug/L		1.0	1		03/01/13 18:22	99-87-6	
Methylene Chloride	ND ug/L		4.0	1		03/01/13 18:22	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND ug/L		5.0	1		03/01/13 18:22	108-10-1	
Methyl-tert-butyl ether	ND ug/L		1.0	1		03/01/13 18:22	1634-04-4	
Naphthalene	ND ug/L		4.0	1		03/01/13 18:22	91-20-3	
n-Propylbenzene	ND ug/L		1.0	1		03/01/13 18:22	103-65-1	
Styrene	ND ug/L		1.0	1		03/01/13 18:22	100-42-5	
1,1,1,2-Tetrachloroethane	ND ug/L		1.0	1		03/01/13 18:22	630-20-6	
1,1,2,2-Tetrachloroethane	ND ug/L		1.0	1		03/01/13 18:22	79-34-5	
Tetrachloroethene	50.2 ug/L		1.0	1		03/01/13 18:22	127-18-4	
Tetrahydrofuran	ND ug/L		10.0	1		03/01/13 18:22	109-99-9	
Toluene	ND ug/L		1.0	1		03/01/13 18:22	108-88-3	
1,2,3-Trichlorobenzene	ND ug/L		1.0	1		03/01/13 18:22	87-61-6	
1,2,4-Trichlorobenzene	ND ug/L		1.0	1		03/01/13 18:22	120-82-1	
1,1,1-Trichloroethane	ND ug/L		1.0	1		03/01/13 18:22	71-55-6	
1,1,2-Trichloroethane	ND ug/L		1.0	1		03/01/13 18:22	79-00-5	
Trichloroethene	ND ug/L		1.0	1		03/01/13 18:22	79-01-6	
Trichlorofluoromethane	ND ug/L		1.0	1		03/01/13 18:22	75-69-4	
1,2,3-Trichloropropane	ND ug/L		4.0	1		03/01/13 18:22	96-18-4	

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ANALYTICAL RESULTS

Project: CRC City of Rochester

Pace Project No.: 10221058

Sample: MW-20		Lab ID: 10221058014	Collected: 02/25/13 18:30	Received: 02/26/13 14:18	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 VOC		Analytical Method: EPA 8260						
1,1,2-Trichlorotrifluoroethane	1.4 ug/L		1.0	1		03/01/13 18:22	76-13-1	
1,2,4-Trimethylbenzene	ND ug/L		1.0	1		03/01/13 18:22	95-63-6	
1,3,5-Trimethylbenzene	ND ug/L		1.0	1		03/01/13 18:22	108-67-8	
Vinyl chloride	ND ug/L		0.40	1		03/01/13 18:22	75-01-4	
Xylene (Total)	ND ug/L		3.0	1		03/01/13 18:22	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	105 %		75-125	1		03/01/13 18:22	1868-53-7	
1,2-Dichloroethane-d4 (S)	109 %		75-125	1		03/01/13 18:22	17060-07-0	
Toluene-d8 (S)	99 %		75-125	1		03/01/13 18:22	2037-26-5	
4-Bromofluorobenzene (S)	102 %		75-125	1		03/01/13 18:22	460-00-4	

Sample: Trip Blank		Lab ID: 10221058015	Collected: 02/25/13 00:00	Received: 02/26/13 14:18	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 VOC		Analytical Method: EPA 8260						
Acetone	ND ug/L		20.0	1		03/01/13 14:35	67-64-1	
Allyl chloride	ND ug/L		4.0	1		03/01/13 14:35	107-05-1	
Benzene	ND ug/L		1.0	1		03/01/13 14:35	71-43-2	
Bromobenzene	ND ug/L		1.0	1		03/01/13 14:35	108-86-1	
Bromochloromethane	ND ug/L		1.0	1		03/01/13 14:35	74-97-5	
Bromodichloromethane	ND ug/L		1.0	1		03/01/13 14:35	75-27-4	
Bromoform	ND ug/L		4.0	1		03/01/13 14:35	75-25-2	
Bromomethane	ND ug/L		4.0	1		03/01/13 14:35	74-83-9	
2-Butanone (MEK)	ND ug/L		5.0	1		03/01/13 14:35	78-93-3	
n-Butylbenzene	ND ug/L		1.0	1		03/01/13 14:35	104-51-8	
sec-Butylbenzene	ND ug/L		1.0	1		03/01/13 14:35	135-98-8	
tert-Butylbenzene	ND ug/L		1.0	1		03/01/13 14:35	98-06-6	
Carbon tetrachloride	ND ug/L		1.0	1		03/01/13 14:35	56-23-5	
Chlorobenzene	ND ug/L		1.0	1		03/01/13 14:35	108-90-7	
Chloroethane	ND ug/L		1.0	1		03/01/13 14:35	75-00-3	
Chloroform	ND ug/L		1.0	1		03/01/13 14:35	67-66-3	
Chloromethane	ND ug/L		4.0	1		03/01/13 14:35	74-87-3	
2-Chlorotoluene	ND ug/L		1.0	1		03/01/13 14:35	95-49-8	
4-Chlorotoluene	ND ug/L		1.0	1		03/01/13 14:35	106-43-4	
1,2-Dibromo-3-chloropropane	ND ug/L		4.0	1		03/01/13 14:35	96-12-8	
Dibromochloromethane	ND ug/L		1.0	1		03/01/13 14:35	124-48-1	
1,2-Dibromoethane (EDB)	ND ug/L		1.0	1		03/01/13 14:35	106-93-4	
Dibromomethane	ND ug/L		4.0	1		03/01/13 14:35	74-95-3	
1,2-Dichlorobenzene	ND ug/L		1.0	1		03/01/13 14:35	95-50-1	
1,3-Dichlorobenzene	ND ug/L		1.0	1		03/01/13 14:35	541-73-1	
1,4-Dichlorobenzene	ND ug/L		1.0	1		03/01/13 14:35	106-46-7	
Dichlorodifluoromethane	ND ug/L		1.0	1		03/01/13 14:35	75-71-8	
1,1-Dichloroethane	ND ug/L		1.0	1		03/01/13 14:35	75-34-3	
1,2-Dichloroethane	ND ug/L		1.0	1		03/01/13 14:35	107-06-2	
1,1-Dichloroethene	ND ug/L		1.0	1		03/01/13 14:35	75-35-4	

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ANALYTICAL RESULTS

Project: CRC City of Rochester

Pace Project No.: 10221058

Sample: Trip Blank		Lab ID: 10221058015	Collected: 02/25/13 00:00	Received: 02/26/13 14:18	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 VOC		Analytical Method: EPA 8260						
cis-1,2-Dichloroethene	ND ug/L		1.0	1		03/01/13 14:35	156-59-2	
trans-1,2-Dichloroethene	ND ug/L		1.0	1		03/01/13 14:35	156-60-5	
Dichlorofluoromethane	ND ug/L		1.0	1		03/01/13 14:35	75-43-4	
1,2-Dichloropropane	ND ug/L		4.0	1		03/01/13 14:35	78-87-5	
1,3-Dichloropropane	ND ug/L		1.0	1		03/01/13 14:35	142-28-9	
2,2-Dichloropropane	ND ug/L		4.0	1		03/01/13 14:35	594-20-7	
1,1-Dichloropropene	ND ug/L		1.0	1		03/01/13 14:35	563-58-6	
cis-1,3-Dichloropropene	ND ug/L		4.0	1		03/01/13 14:35	10061-01-5	
trans-1,3-Dichloropropene	ND ug/L		4.0	1		03/01/13 14:35	10061-02-6	
Diethyl ether (Ethyl ether)	ND ug/L		4.0	1		03/01/13 14:35	60-29-7	
Ethylbenzene	ND ug/L		1.0	1		03/01/13 14:35	100-41-4	
Hexachloro-1,3-butadiene	ND ug/L		5.0	1		03/01/13 14:35	87-68-3	
Isopropylbenzene (Cumene)	ND ug/L		1.0	1		03/01/13 14:35	98-82-8	
p-Isopropyltoluene	ND ug/L		1.0	1		03/01/13 14:35	99-87-6	
Methylene Chloride	ND ug/L		4.0	1		03/01/13 14:35	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND ug/L		5.0	1		03/01/13 14:35	108-10-1	
Methyl-tert-butyl ether	ND ug/L		1.0	1		03/01/13 14:35	1634-04-4	
Naphthalene	ND ug/L		4.0	1		03/01/13 14:35	91-20-3	
n-Propylbenzene	ND ug/L		1.0	1		03/01/13 14:35	103-65-1	
Styrene	ND ug/L		1.0	1		03/01/13 14:35	100-42-5	
1,1,1,2-Tetrachloroethane	ND ug/L		1.0	1		03/01/13 14:35	630-20-6	
1,1,2,2-Tetrachloroethane	ND ug/L		1.0	1		03/01/13 14:35	79-34-5	
Tetrachloroethene	ND ug/L		1.0	1		03/01/13 14:35	127-18-4	
Tetrahydrofuran	ND ug/L		10.0	1		03/01/13 14:35	109-99-9	
Toluene	ND ug/L		1.0	1		03/01/13 14:35	108-88-3	
1,2,3-Trichlorobenzene	ND ug/L		1.0	1		03/01/13 14:35	87-61-6	
1,2,4-Trichlorobenzene	ND ug/L		1.0	1		03/01/13 14:35	120-82-1	
1,1,1-Trichloroethane	ND ug/L		1.0	1		03/01/13 14:35	71-55-6	
1,1,2-Trichloroethane	ND ug/L		1.0	1		03/01/13 14:35	79-00-5	
Trichloroethene	ND ug/L		1.0	1		03/01/13 14:35	79-01-6	
Trichlorofluoromethane	ND ug/L		1.0	1		03/01/13 14:35	75-69-4	
1,2,3-Trichloropropane	ND ug/L		4.0	1		03/01/13 14:35	96-18-4	
1,1,2-Trichlorotrifluoroethane	ND ug/L		1.0	1		03/01/13 14:35	76-13-1	
1,2,4-Trimethylbenzene	ND ug/L		1.0	1		03/01/13 14:35	95-63-6	
1,3,5-Trimethylbenzene	ND ug/L		1.0	1		03/01/13 14:35	108-67-8	
Vinyl chloride	ND ug/L		0.40	1		03/01/13 14:35	75-01-4	
Xylene (Total)	ND ug/L		3.0	1		03/01/13 14:35	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	106 %		75-125	1		03/01/13 14:35	1868-53-7	
1,2-Dichloroethane-d4 (S)	109 %		75-125	1		03/01/13 14:35	17060-07-0	
Toluene-d8 (S)	100 %		75-125	1		03/01/13 14:35	2037-26-5	
4-Bromofluorobenzene (S)	102 %		75-125	1		03/01/13 14:35	460-00-4	

QUALITY CONTROL DATA

Project: CRC City of Rochester

Pace Project No.: 10221058

QC Batch: MSV/22962

Analysis Method: EPA 8260

QC Batch Method: EPA 8260

Analysis Description: 8260 MSV 465 W

Associated Lab Samples: 10221058005

METHOD BLANK: 1384714

Matrix: Water

Associated Lab Samples: 10221058005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	1.0	03/01/13 10:33	
1,1,1-Trichloroethane	ug/L	ND	1.0	03/01/13 10:33	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	03/01/13 10:33	
1,1,2-Trichloroethane	ug/L	ND	1.0	03/01/13 10:33	
1,1,2-Trichlorotrifluoroethane	ug/L	ND	1.0	03/01/13 10:33	
1,1-Dichloroethane	ug/L	ND	1.0	03/01/13 10:33	
1,1-Dichloroethene	ug/L	ND	1.0	03/01/13 10:33	
1,1-Dichloropropene	ug/L	ND	1.0	03/01/13 10:33	
1,2,3-Trichlorobenzene	ug/L	ND	1.0	03/01/13 10:33	
1,2,3-Trichloropropane	ug/L	ND	4.0	03/01/13 10:33	
1,2,4-Trichlorobenzene	ug/L	ND	1.0	03/01/13 10:33	
1,2,4-Trimethylbenzene	ug/L	ND	1.0	03/01/13 10:33	
1,2-Dibromo-3-chloropropane	ug/L	ND	4.0	03/01/13 10:33	
1,2-Dibromoethane (EDB)	ug/L	ND	1.0	03/01/13 10:33	
1,2-Dichlorobenzene	ug/L	ND	1.0	03/01/13 10:33	
1,2-Dichloroethane	ug/L	ND	1.0	03/01/13 10:33	
1,2-Dichloropropane	ug/L	ND	4.0	03/01/13 10:33	
1,3,5-Trimethylbenzene	ug/L	ND	1.0	03/01/13 10:33	
1,3-Dichlorobenzene	ug/L	ND	1.0	03/01/13 10:33	
1,3-Dichloropropane	ug/L	ND	1.0	03/01/13 10:33	
1,4-Dichlorobenzene	ug/L	ND	1.0	03/01/13 10:33	
2,2-Dichloropropane	ug/L	ND	4.0	03/01/13 10:33	
2-Butanone (MEK)	ug/L	ND	5.0	03/01/13 10:33	
2-Chlorotoluene	ug/L	ND	1.0	03/01/13 10:33	
4-Chlorotoluene	ug/L	ND	1.0	03/01/13 10:33	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	5.0	03/01/13 10:33	
Acetone	ug/L	ND	20.0	03/01/13 10:33	
Allyl chloride	ug/L	ND	4.0	03/01/13 10:33	
Benzene	ug/L	ND	1.0	03/01/13 10:33	
Bromobenzene	ug/L	ND	1.0	03/01/13 10:33	
Bromochloromethane	ug/L	ND	1.0	03/01/13 10:33	
Bromodichloromethane	ug/L	ND	1.0	03/01/13 10:33	
Bromoform	ug/L	ND	4.0	03/01/13 10:33	
Bromomethane	ug/L	ND	10.0	03/01/13 10:33	
Carbon tetrachloride	ug/L	ND	1.0	03/01/13 10:33	
Chlorobenzene	ug/L	ND	1.0	03/01/13 10:33	
Chloroethane	ug/L	ND	1.0	03/01/13 10:33	
Chloroform	ug/L	ND	1.0	03/01/13 10:33	
Chloromethane	ug/L	ND	4.0	03/01/13 10:33	
cis-1,2-Dichloroethene	ug/L	ND	1.0	03/01/13 10:33	
cis-1,3-Dichloropropene	ug/L	ND	4.0	03/01/13 10:33	
Dibromochloromethane	ug/L	ND	1.0	03/01/13 10:33	
Dibromomethane	ug/L	ND	4.0	03/01/13 10:33	

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QUALITY CONTROL DATA

Project: CRC City of Rochester

Pace Project No.: 10221058

METHOD BLANK: 1384714

Matrix: Water

Associated Lab Samples: 10221058005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Dichlorodifluoromethane	ug/L	ND	1.0	03/01/13 10:33	
Dichlorofluoromethane	ug/L	ND	1.0	03/01/13 10:33	
Diethyl ether (Ethyl ether)	ug/L	ND	4.0	03/01/13 10:33	
Ethylbenzene	ug/L	ND	1.0	03/01/13 10:33	
Hexachloro-1,3-butadiene	ug/L	ND	5.0	03/01/13 10:33	
Isopropylbenzene (Cumene)	ug/L	ND	1.0	03/01/13 10:33	
Methyl-tert-butyl ether	ug/L	ND	1.0	03/01/13 10:33	
Methylene Chloride	ug/L	ND	4.0	03/01/13 10:33	
n-Butylbenzene	ug/L	ND	1.0	03/01/13 10:33	
n-Propylbenzene	ug/L	ND	1.0	03/01/13 10:33	
Naphthalene	ug/L	ND	4.0	03/01/13 10:33	
p-Isopropyltoluene	ug/L	ND	1.0	03/01/13 10:33	
sec-Butylbenzene	ug/L	ND	1.0	03/01/13 10:33	
Styrene	ug/L	ND	1.0	03/01/13 10:33	
tert-Butylbenzene	ug/L	ND	1.0	03/01/13 10:33	
Tetrachloroethene	ug/L	ND	1.0	03/01/13 10:33	
Tetrahydrofuran	ug/L	ND	10.0	03/01/13 10:33	
Toluene	ug/L	ND	1.0	03/01/13 10:33	
trans-1,2-Dichloroethene	ug/L	ND	1.0	03/01/13 10:33	
trans-1,3-Dichloropropene	ug/L	ND	4.0	03/01/13 10:33	
Trichloroethene	ug/L	ND	1.0	03/01/13 10:33	
Trichlorofluoromethane	ug/L	ND	1.0	03/01/13 10:33	
Vinyl chloride	ug/L	ND	0.40	03/01/13 10:33	
Xylene (Total)	ug/L	ND	3.0	03/01/13 10:33	
1,2-Dichloroethane-d4 (S)	%	91	75-125	03/01/13 10:33	
4-Bromofluorobenzene (S)	%	97	75-125	03/01/13 10:33	
Dibromofluoromethane (S)	%	87	75-125	03/01/13 10:33	
Toluene-d8 (S)	%	99	75-125	03/01/13 10:33	

LABORATORY CONTROL SAMPLE: 1384715

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	20	21.9	109	75-125	
1,1,1-Trichloroethane	ug/L	20	19.3	97	75-126	
1,1,2,2-Tetrachloroethane	ug/L	20	21.6	108	75-125	
1,1,2-Trichloroethane	ug/L	20	21.6	108	75-125	
1,1,2-Trichlorotrifluoroethane	ug/L	20	20.1	101	51-139	
1,1-Dichloroethane	ug/L	20	18.9	95	75-125	
1,1-Dichloroethene	ug/L	20	19.4	97	71-126	
1,1-Dichloropropene	ug/L	20	19.3	96	74-125	
1,2,3-Trichlorobenzene	ug/L	20	21.0	105	75-125	
1,2,3-Trichloropropane	ug/L	20	21.1	105	75-125	
1,2,4-Trichlorobenzene	ug/L	20	21.1	105	75-125	
1,2,4-Trimethylbenzene	ug/L	20	22.2	111	75-125	
1,2-Dibromo-3-chloropropane	ug/L	50	54.3	109	73-125	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: CRC City of Rochester

Pace Project No.: 10221058

LABORATORY CONTROL SAMPLE: 1384715

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	20	21.8	109	75-125	
1,2-Dichlorobenzene	ug/L	20	21.4	107	75-125	
1,2-Dichloroethane	ug/L	20	19.0	95	74-125	
1,2-Dichloropropane	ug/L	20	21.6	108	75-125	
1,3,5-Trimethylbenzene	ug/L	20	21.8	109	75-125	
1,3-Dichlorobenzene	ug/L	20	21.3	106	75-125	
1,3-Dichloropropane	ug/L	20	21.3	106	75-125	
1,4-Dichlorobenzene	ug/L	20	21.4	107	75-125	
2,2-Dichloropropane	ug/L	20	18.9	94	67-132	
2-Butanone (MEK)	ug/L	100	92.0	92	68-126	
2-Chlorotoluene	ug/L	20	21.4	107	74-125	
4-Chlorotoluene	ug/L	20	21.4	107	74-125	
4-Methyl-2-pentanone (MIBK)	ug/L	100	109	109	72-125	
Acetone	ug/L	100	103	103	69-132	
Allyl chloride	ug/L	20	19.3	96	74-125	
Benzene	ug/L	20	19.2	96	75-125	
Bromobenzene	ug/L	20	20.7	104	75-125	
Bromochloromethane	ug/L	20	20.2	101	75-125	
Bromodichloromethane	ug/L	20	21.5	108	75-125	
Bromoform	ug/L	20	21.8	109	75-126	
Bromomethane	ug/L	20	28.2	141	30-150	CH
Carbon tetrachloride	ug/L	20	19.0	95	74-127	
Chlorobenzene	ug/L	20	21.5	108	75-125	
Chloroethane	ug/L	20	20.1	100	68-132	
Chloroform	ug/L	20	19.3	96	75-125	
Chloromethane	ug/L	20	20.7	103	61-129	
cis-1,2-Dichloroethene	ug/L	20	19.1	96	75-125	
cis-1,3-Dichloropropene	ug/L	20	21.9	109	75-125	
Dibromochloromethane	ug/L	20	22.5	113	75-125	
Dibromomethane	ug/L	20	21.1	105	75-125	
Dichlorodifluoromethane	ug/L	20	20.0	100	49-137	
Dichlorofluoromethane	ug/L	20	19.1	95	66-133	
Diethyl ether (Ethyl ether)	ug/L	20	18.7	93	75-125	
Ethylbenzene	ug/L	20	22.0	110	75-125	
Hexachloro-1,3-butadiene	ug/L	20	21.1	106	69-127	
Isopropylbenzene (Cumene)	ug/L	20	23.0	115	75-125	
Methyl-tert-butyl ether	ug/L	20	18.5	93	74-126	
Methylene Chloride	ug/L	20	18.0	90	75-125	
n-Butylbenzene	ug/L	20	22.9	115	72-126	
n-Propylbenzene	ug/L	20	22.3	112	73-125	
Naphthalene	ug/L	20	21.6	108	75-125	
p-Isopropyltoluene	ug/L	20	22.6	113	74-125	
sec-Butylbenzene	ug/L	20	22.7	114	73-125	
Styrene	ug/L	20	23.0	115	75-125	
tert-Butylbenzene	ug/L	20	22.0	110	73-125	
Tetrachloroethene	ug/L	20	22.1	110	75-125	
Tetrahydrofuran	ug/L	200	187	94	71-125	
Toluene	ug/L	20	21.8	109	75-125	

QUALITY CONTROL DATA

Project: CRC City of Rochester

Pace Project No.: 10221058

LABORATORY CONTROL SAMPLE: 1384715

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
trans-1,2-Dichloroethene	ug/L	20	19.4	97	74-125	
trans-1,3-Dichloropropene	ug/L	20	22.3	111	75-125	
Trichloroethene	ug/L	20	21.3	106	75-125	
Trichlorofluoromethane	ug/L	20	19.9	99	69-129	
Vinyl chloride	ug/L	20	20.0	100	70-128	
Xylene (Total)	ug/L	60	67.1	112	75-125	
1,2-Dichloroethane-d4 (S)	%			88	75-125	
4-Bromofluorobenzene (S)	%			99	75-125	
Dibromofluoromethane (S)	%			84	75-125	
Toluene-d8 (S)	%			100	75-125	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1385643 1385644

Parameter	10221046001		MS	MSD	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
	Units	Result	Spike Conc.	Spike Conc.								
1,1,1,2-Tetrachloroethane	ug/L	ND	1000	1000	1120	1110	112	111	75-125	1	30	
1,1,1-Trichloroethane	ug/L	ND	1000	1000	984	959	98	96	75-136	3	30	
1,1,2,2-Tetrachloroethane	ug/L	ND	1000	1000	1130	1100	113	110	66-131	3	30	
1,1,2-Trichloroethane	ug/L	ND	1000	1000	1130	1100	113	110	75-125	2	30	
1,1,2-Trichlorotrifluoroethane	ug/L	ND	1000	1000	1010	988	101	99	75-150	2	30	
1,1-Dichloroethane	ug/L	ND	1000	1000	967	954	97	95	75-131	1	30	
1,1-Dichloroethene	ug/L	ND	1000	1000	991	996	99	100	75-138	.5	30	
1,1-Dichloropropene	ug/L	ND	1000	1000	982	947	98	95	75-136	4	30	
1,2,3-Trichlorobenzene	ug/L	ND	1000	1000	1100	1080	110	108	75-125	2	30	
1,2,3-Trichloropropane	ug/L	ND	1000	1000	1120	1110	112	111	71-126	1	30	
1,2,4-Trichlorobenzene	ug/L	ND	1000	1000	1090	1060	109	106	75-125	3	30	
1,2,4-Trimethylbenzene	ug/L	ND	1000	1000	1150	1100	115	110	70-126	5	30	
1,2-Dibromo-3-chloropropane	ug/L	ND	2500	2500	2850	2760	114	110	69-127	3	30	
1,2-Dibromoethane (EDB)	ug/L	ND	1000	1000	1110	1100	111	110	75-125	.7	30	
1,2-Dichlorobenzene	ug/L	ND	1000	1000	1110	1090	111	109	75-125	2	30	
1,2-Dichloroethane	ug/L	ND	1000	1000	978	963	98	96	74-128	2	30	
1,2-Dichloropropane	ug/L	ND	1000	1000	1100	1080	110	108	75-125	2	30	
1,3,5-Trimethylbenzene	ug/L	ND	1000	1000	1130	1070	113	107	72-126	5	30	
1,3-Dichlorobenzene	ug/L	ND	1000	1000	1110	1060	111	106	75-125	4	30	
1,3-Dichloropropane	ug/L	ND	1000	1000	1090	1070	109	107	75-125	2	30	
1,4-Dichlorobenzene	ug/L	ND	1000	1000	1100	1060	110	106	75-125	4	30	
2,2-Dichloropropane	ug/L	ND	1000	1000	949	909	95	91	71-143	4	30	
2-Butanone (MEK)	ug/L	ND	5000	5000	4760	4710	95	94	64-125	.9	30	
2-Chlorotoluene	ug/L	ND	1000	1000	1100	1060	110	106	74-125	4	30	
4-Chlorotoluene	ug/L	ND	1000	1000	1110	1060	111	106	75-125	4	30	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	5000	5000	5820	5680	116	114	69-125	2	30	
Acetone	ug/L	ND	5000	5000	5550	5640	111	113	57-135	2	30	
Allyl chloride	ug/L	ND	1000	1000	1010	970	101	97	73-134	4	30	
Benzene	ug/L	ND	1000	1000	971	942	97	94	70-135	3	30	
Bromobenzene	ug/L	ND	1000	1000	1080	1050	108	105	75-125	3	30	
Bromochloromethane	ug/L	ND	1000	1000	1050	1040	105	104	75-125	1	30	
Bromodichloromethane	ug/L	ND	1000	1000	1110	1080	111	108	75-125	3	30	

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QUALITY CONTROL DATA

Project: CRC City of Rochester

Pace Project No.: 10221058

Parameter	10221046001		MS		MSD		MS		MSD		Max	
	Units	Result	Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec	% Rec	% Rec	Limits	RPD
Bromoform	ug/L	ND	1000	1000	1120	1110	112	111	68-133	.8	30	
Bromomethane	ug/L	ND	1000	1000	1340	1370	134	137	56-150	2	30	CH
Carbon tetrachloride	ug/L	ND	1000	1000	993	950	99	95	75-137	4	30	
Chlorobenzene	ug/L	ND	1000	1000	1120	1070	112	107	75-125	4	30	
Chloroethane	ug/L	ND	1000	1000	1060	1010	106	101	64-150	5	30	
Chloroform	ug/L	ND	1000	1000	987	959	99	96	75-127	3	30	
Chloromethane	ug/L	ND	1000	1000	1010	980	101	98	65-140	3	30	
cis-1,2-Dichloroethene	ug/L	4440	1000	1000	5350	5220	91	77	75-129	3	30	
cis-1,3-Dichloropropene	ug/L	ND	1000	1000	1110	1090	111	109	75-125	2	30	
Dibromochloromethane	ug/L	ND	1000	1000	1140	1120	114	112	75-125	2	30	
Dibromomethane	ug/L	ND	1000	1000	1120	1090	112	109	75-125	2	30	
Dichlorodifluoromethane	ug/L	ND	1000	1000	975	934	97	93	70-150	4	30	
Dichlorofluoromethane	ug/L	ND	1000	1000	979	947	98	95	69-142	3	30	
Diethyl ether (Ethyl ether)	ug/L	ND	1000	1000	959	984	96	98	75-125	3	30	
Ethylbenzene	ug/L	ND	1000	1000	1120	1070	112	107	75-125	5	30	
Hexachloro-1,3-butadiene	ug/L	ND	1000	1000	1090	1100	109	110	75-135	.3	30	
Isopropylbenzene (Cumene)	ug/L	ND	1000	1000	1180	1120	118	112	75-125	5	30	
Methyl-tert-butyl ether	ug/L	ND	1000	1000	940	951	94	95	70-132	1	30	
Methylene Chloride	ug/L	ND	1000	1000	927	929	93	93	73-125	.2	30	
n-Butylbenzene	ug/L	ND	1000	1000	1180	1100	118	110	75-130	7	30	
n-Propylbenzene	ug/L	ND	1000	1000	1160	1090	116	109	75-128	6	30	
Naphthalene	ug/L	ND	1000	1000	1140	1110	114	111	73-126	2	30	
p-Isopropyltoluene	ug/L	ND	1000	1000	1160	1100	116	110	75-125	5	30	
sec-Butylbenzene	ug/L	ND	1000	1000	1170	1100	117	110	75-126	6	30	
Styrene	ug/L	ND	1000	1000	1180	1140	118	114	52-137	3	30	
tert-Butylbenzene	ug/L	ND	1000	1000	1140	1070	114	107	75-125	6	30	
Tetrachloroethene	ug/L	8060	1000	1000	9640	9210	158	115	75-130	5	30	M1
Tetrahydrofuran	ug/L	ND	10000	10000	9840	9630	98	96	69-125	2	30	
Toluene	ug/L	ND	1000	1000	1100	1070	110	107	75-125	3	30	
trans-1,2-Dichloroethene	ug/L	15.2J	1000	1000	999	968	98	95	75-135	3	30	
trans-1,3-Dichloropropene	ug/L	ND	1000	1000	1150	1130	115	113	75-125	2	30	
Trichloroethene	ug/L	611	1000	1000	1780	1690	117	108	75-129	5	30	
Trichlorofluoromethane	ug/L	ND	1000	1000	1020	1000	102	100	75-150	2	30	
Vinyl chloride	ug/L	ND	1000	1000	986	962	99	96	75-147	2	30	
Xylene (Total)	ug/L	ND	3000	3000	3430	3330	114	111	75-125	3	30	
1,2-Dichloroethane-d4 (S)	%						86	87	75-125			
4-Bromofluorobenzene (S)	%						98	97	75-125			
Dibromofluoromethane (S)	%						85	85	75-125			
Toluene-d8 (S)	%						98	97	75-125			

QUALITY CONTROL DATA

Project: CRC City of Rochester

Pace Project No.: 10221058

QC Batch: MSV/22963 Analysis Method: EPA 8260
 QC Batch Method: EPA 8260 Analysis Description: 8260 MSV 465 W
 Associated Lab Samples: 10221058006, 10221058007, 10221058008, 10221058009, 10221058010, 10221058011, 10221058012,
 10221058013, 10221058014, 10221058015

METHOD BLANK: 1384940 Matrix: Water
 Associated Lab Samples: 10221058006, 10221058007, 10221058008, 10221058009, 10221058010, 10221058011, 10221058012,
 10221058013, 10221058014, 10221058015

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	1.0	03/01/13 10:52	
1,1,1-Trichloroethane	ug/L	ND	1.0	03/01/13 10:52	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	03/01/13 10:52	
1,1,2-Trichloroethane	ug/L	ND	1.0	03/01/13 10:52	
1,1,2-Trichlorotrifluoroethane	ug/L	ND	1.0	03/01/13 10:52	
1,1-Dichloroethane	ug/L	ND	1.0	03/01/13 10:52	
1,1-Dichloroethene	ug/L	ND	1.0	03/01/13 10:52	
1,1-Dichloropropene	ug/L	ND	1.0	03/01/13 10:52	
1,2,3-Trichlorobenzene	ug/L	ND	1.0	03/01/13 10:52	
1,2,3-Trichloropropane	ug/L	ND	4.0	03/01/13 10:52	
1,2,4-Trichlorobenzene	ug/L	ND	1.0	03/01/13 10:52	
1,2,4-Trimethylbenzene	ug/L	ND	1.0	03/01/13 10:52	
1,2-Dibromo-3-chloropropane	ug/L	ND	4.0	03/01/13 10:52	
1,2-Dibromoethane (EDB)	ug/L	ND	1.0	03/01/13 10:52	
1,2-Dichlorobenzene	ug/L	ND	1.0	03/01/13 10:52	
1,2-Dichloroethane	ug/L	ND	1.0	03/01/13 10:52	
1,2-Dichloropropane	ug/L	ND	4.0	03/01/13 10:52	
1,3,5-Trimethylbenzene	ug/L	ND	1.0	03/01/13 10:52	
1,3-Dichlorobenzene	ug/L	ND	1.0	03/01/13 10:52	
1,3-Dichloropropane	ug/L	ND	1.0	03/01/13 10:52	
1,4-Dichlorobenzene	ug/L	ND	1.0	03/01/13 10:52	
2,2-Dichloropropane	ug/L	ND	4.0	03/01/13 10:52	
2-Butanone (MEK)	ug/L	ND	5.0	03/01/13 10:52	
2-Chlorotoluene	ug/L	ND	1.0	03/01/13 10:52	
4-Chlorotoluene	ug/L	ND	1.0	03/01/13 10:52	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	5.0	03/01/13 10:52	
Acetone	ug/L	ND	20.0	03/01/13 10:52	
Allyl chloride	ug/L	ND	4.0	03/01/13 10:52	
Benzene	ug/L	ND	1.0	03/01/13 10:52	
Bromobenzene	ug/L	ND	1.0	03/01/13 10:52	
Bromochloromethane	ug/L	ND	1.0	03/01/13 10:52	
Bromodichloromethane	ug/L	ND	1.0	03/01/13 10:52	
Bromoform	ug/L	ND	4.0	03/01/13 10:52	
Bromomethane	ug/L	ND	4.0	03/01/13 10:52	
Carbon tetrachloride	ug/L	ND	1.0	03/01/13 10:52	
Chlorobenzene	ug/L	ND	1.0	03/01/13 10:52	
Chloroethane	ug/L	ND	1.0	03/01/13 10:52	
Chloroform	ug/L	ND	1.0	03/01/13 10:52	
Chloromethane	ug/L	ND	4.0	03/01/13 10:52	
cis-1,2-Dichloroethene	ug/L	ND	1.0	03/01/13 10:52	
cis-1,3-Dichloropropene	ug/L	ND	4.0	03/01/13 10:52	

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QUALITY CONTROL DATA

Project: CRC City of Rochester

Pace Project No.: 10221058

METHOD BLANK: 1384940

Matrix: Water

Associated Lab Samples: 10221058006, 10221058007, 10221058008, 10221058009, 10221058010, 10221058011, 10221058012, 10221058013, 10221058014, 10221058015

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Dibromochloromethane	ug/L	ND	1.0	03/01/13 10:52	
Dibromomethane	ug/L	ND	4.0	03/01/13 10:52	
Dichlorodifluoromethane	ug/L	ND	1.0	03/01/13 10:52	
Dichlorofluoromethane	ug/L	ND	1.0	03/01/13 10:52	
Diethyl ether (Ethyl ether)	ug/L	ND	4.0	03/01/13 10:52	
Ethylbenzene	ug/L	ND	1.0	03/01/13 10:52	
Hexachloro-1,3-butadiene	ug/L	ND	5.0	03/01/13 10:52	
Isopropylbenzene (Cumene)	ug/L	ND	1.0	03/01/13 10:52	
Methyl-tert-butyl ether	ug/L	ND	1.0	03/01/13 10:52	
Methylene Chloride	ug/L	ND	4.0	03/01/13 10:52	
n-Butylbenzene	ug/L	ND	1.0	03/01/13 10:52	
n-Propylbenzene	ug/L	ND	1.0	03/01/13 10:52	
Naphthalene	ug/L	ND	4.0	03/01/13 10:52	
p-Isopropyltoluene	ug/L	ND	1.0	03/01/13 10:52	
sec-Butylbenzene	ug/L	ND	1.0	03/01/13 10:52	
Styrene	ug/L	ND	1.0	03/01/13 10:52	
tert-Butylbenzene	ug/L	ND	1.0	03/01/13 10:52	
Tetrachloroethene	ug/L	ND	1.0	03/01/13 10:52	
Tetrahydrofuran	ug/L	ND	10.0	03/01/13 10:52	
Toluene	ug/L	ND	1.0	03/01/13 10:52	
trans-1,2-Dichloroethene	ug/L	ND	1.0	03/01/13 10:52	
trans-1,3-Dichloropropene	ug/L	ND	4.0	03/01/13 10:52	
Trichloroethene	ug/L	ND	1.0	03/01/13 10:52	
Trichlorofluoromethane	ug/L	ND	1.0	03/01/13 10:52	
Vinyl chloride	ug/L	ND	0.40	03/01/13 10:52	
Xylene (Total)	ug/L	ND	3.0	03/01/13 10:52	
1,2-Dichloroethane-d4 (S)	%	109	75-125	03/01/13 10:52	
4-Bromofluorobenzene (S)	%	101	75-125	03/01/13 10:52	
Dibromofluoromethane (S)	%	104	75-125	03/01/13 10:52	
Toluene-d8 (S)	%	100	75-125	03/01/13 10:52	

LABORATORY CONTROL SAMPLE: 1384941

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	20	20.3	102	75-125	
1,1,1-Trichloroethane	ug/L	20	22.0	110	75-126	
1,1,2,2-Tetrachloroethane	ug/L	20	18.4	92	75-125	
1,1,2-Trichloroethane	ug/L	20	19.8	99	75-125	
1,1,2-Trichlorotrifluoroethane	ug/L	20	21.3	107	51-139	
1,1-Dichloroethane	ug/L	20	21.4	107	75-125	
1,1-Dichloroethene	ug/L	20	21.9	109	71-126	
1,1-Dichloropropene	ug/L	20	21.6	108	74-125	
1,2,3-Trichlorobenzene	ug/L	20	19.5	98	75-125	
1,2,3-Trichloropropane	ug/L	20	18.9	94	75-125	

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QUALITY CONTROL DATA

Project: CRC City of Rochester

Pace Project No.: 10221058

LABORATORY CONTROL SAMPLE: 1384941

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,4-Trichlorobenzene	ug/L	20	20.1	100	75-125	
1,2,4-Trimethylbenzene	ug/L	20	19.9	100	75-125	
1,2-Dibromo-3-chloropropane	ug/L	50	43.7	87	73-125	
1,2-Dibromoethane (EDB)	ug/L	20	19.9	100	75-125	
1,2-Dichlorobenzene	ug/L	20	19.0	95	75-125	
1,2-Dichloroethane	ug/L	20	20.5	102	74-125	
1,2-Dichloropropane	ug/L	20	20.3	102	75-125	
1,3,5-Trimethylbenzene	ug/L	20	20.4	102	75-125	
1,3-Dichlorobenzene	ug/L	20	19.7	98	75-125	
1,3-Dichloropropane	ug/L	20	19.5	97	75-125	
1,4-Dichlorobenzene	ug/L	20	19.5	97	75-125	
2,2-Dichloropropane	ug/L	20	22.9	114	67-132	
2-Butanone (MEK)	ug/L	100	93.6	94	68-126	
2-Chlorotoluene	ug/L	20	19.6	98	74-125	
4-Chlorotoluene	ug/L	20	19.9	100	74-125	
4-Methyl-2-pentanone (MIBK)	ug/L	100	92.4	92	72-125	
Acetone	ug/L	100	101	101	69-132	
Allyl chloride	ug/L	20	23.7	118	74-125	
Benzene	ug/L	20	20.9	104	75-125	
Bromobenzene	ug/L	20	19.3	96	75-125	
Bromochloromethane	ug/L	20	21.8	109	75-125	
Bromodichloromethane	ug/L	20	20.3	101	75-125	
Bromoform	ug/L	20	18.2	91	75-126	
Bromomethane	ug/L	20	25.0	125	30-150	
Carbon tetrachloride	ug/L	20	22.5	113	74-127	
Chlorobenzene	ug/L	20	19.6	98	75-125	
Chloroethane	ug/L	20	22.1	111	68-132	
Chloroform	ug/L	20	21.0	105	75-125	
Chloromethane	ug/L	20	21.5	108	61-129	
cis-1,2-Dichloroethene	ug/L	20	21.7	109	75-125	
cis-1,3-Dichloropropene	ug/L	20	20.4	102	75-125	
Dibromochloromethane	ug/L	20	20.5	103	75-125	
Dibromomethane	ug/L	20	19.7	99	75-125	
Dichlorodifluoromethane	ug/L	20	21.1	105	49-137	
Dichlorofluoromethane	ug/L	20	22.4	112	66-133	
Diethyl ether (Ethyl ether)	ug/L	20	20.8	104	75-125	
Ethylbenzene	ug/L	20	19.9	99	75-125	
Hexachloro-1,3-butadiene	ug/L	20	21.7	109	69-127	
Isopropylbenzene (Cumene)	ug/L	20	20.5	102	75-125	
Methyl-tert-butyl ether	ug/L	20	20.0	100	74-126	
Methylene Chloride	ug/L	20	20.6	103	75-125	
n-Butylbenzene	ug/L	20	20.9	105	72-126	
n-Propylbenzene	ug/L	20	20.2	101	73-125	
Naphthalene	ug/L	20	18.6	93	75-125	
p-Isopropyltoluene	ug/L	20	20.7	103	74-125	
sec-Butylbenzene	ug/L	20	20.4	102	73-125	
Styrene	ug/L	20	19.9	100	75-125	
tert-Butylbenzene	ug/L	20	20.1	100	73-125	

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QUALITY CONTROL DATA

Project: CRC City of Rochester

Pace Project No.: 10221058

LABORATORY CONTROL SAMPLE: 1384941

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Tetrachloroethene	ug/L	20	20.8	104	75-125	
Tetrahydrofuran	ug/L	200	189	94	71-125	
Toluene	ug/L	20	19.9	100	75-125	
trans-1,2-Dichloroethene	ug/L	20	22.2	111	74-125	
trans-1,3-Dichloropropene	ug/L	20	20.3	102	75-125	
Trichloroethene	ug/L	20	20.2	101	75-125	
Trichlorofluoromethane	ug/L	20	21.9	109	69-129	
Vinyl chloride	ug/L	20	21.8	109	70-128	
Xylene (Total)	ug/L	60	60.4	101	75-125	
1,2-Dichloroethane-d4 (S)	%			109	75-125	
4-Bromofluorobenzene (S)	%			100	75-125	
Dibromofluoromethane (S)	%			105	75-125	
Toluene-d8 (S)	%			102	75-125	

MATRIX SPIKE SAMPLE: 1384981

Parameter	Units	10221058009 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	20	20.5	102	75-125	
1,1,1-Trichloroethane	ug/L	ND	20	22.7	113	75-136	
1,1,2,2-Tetrachloroethane	ug/L	ND	20	20.2	101	66-131	
1,1,2-Trichloroethane	ug/L	ND	20	20.8	104	75-125	
1,1,2-Trichlorotrifluoroethane	ug/L	ND	20	28.5	143	75-150	
1,1-Dichloroethane	ug/L	ND	20	22.1	110	75-131	
1,1-Dichloroethene	ug/L	ND	20	23.3	117	75-138	
1,1-Dichloropropene	ug/L	ND	20	23.3	116	75-136	
1,2,3-Trichlorobenzene	ug/L	ND	20	20.0	100	75-125	
1,2,3-Trichloropropane	ug/L	ND	20	21.1	105	71-126	
1,2,4-Trichlorobenzene	ug/L	ND	20	20.5	103	75-125	
1,2,4-Trimethylbenzene	ug/L	ND	20	20.1	101	70-126	
1,2-Dibromo-3-chloropropane	ug/L	ND	50	48.7	97	69-127	
1,2-Dibromoethane (EDB)	ug/L	ND	20	21.1	105	75-125	
1,2-Dichlorobenzene	ug/L	ND	20	19.7	98	75-125	
1,2-Dichloroethane	ug/L	ND	20	21.7	109	74-128	
1,2-Dichloropropane	ug/L	ND	20	21.3	107	75-125	
1,3,5-Trimethylbenzene	ug/L	ND	20	20.3	102	72-126	
1,3-Dichlorobenzene	ug/L	ND	20	19.8	99	75-125	
1,3-Dichloropropane	ug/L	ND	20	20.4	102	75-125	
1,4-Dichlorobenzene	ug/L	ND	20	19.5	98	75-125	
2,2-Dichloropropane	ug/L	ND	20	21.0	105	71-143	
2-Butanone (MEK)	ug/L	ND	100	112	112	64-125	
2-Chlorotoluene	ug/L	ND	20	19.7	99	74-125	
4-Chlorotoluene	ug/L	ND	20	20.0	100	75-125	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	100	107	107	69-125	
Acetone	ug/L	ND	100	100	100	57-135	
Allyl chloride	ug/L	ND	20	23.1	115	73-134	
Benzene	ug/L	ND	20	21.4	107	70-135	
Bromobenzene	ug/L	ND	20	19.8	99	75-125	

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QUALITY CONTROL DATA

Project: CRC City of Rochester

Pace Project No.: 10221058

MATRIX SPIKE SAMPLE: 1384981		10221058009	Spike	MS	MS	% Rec	
Parameter	Units	Result	Conc.	Result	% Rec	Limits	Qualifiers
Bromochloromethane	ug/L	ND	20	22.5	112	75-125	
Bromodichloromethane	ug/L	ND	20	21.5	106	75-125	
Bromoform	ug/L	ND	20	18.7	94	68-133	
Bromomethane	ug/L	ND	20	19.3	97	56-150	
Carbon tetrachloride	ug/L	ND	20	22.4	112	75-137	
Chlorobenzene	ug/L	ND	20	20.4	102	75-125	
Chloroethane	ug/L	ND	20	23.2	116	64-150	
Chloroform	ug/L	ND	20	22.4	110	75-127	
Chloromethane	ug/L	ND	20	21.1	106	65-140	
cis-1,2-Dichloroethene	ug/L	ND	20	22.5	111	75-129	
cis-1,3-Dichloropropene	ug/L	ND	20	20.2	101	75-125	
Dibromochloromethane	ug/L	ND	20	20.9	105	75-125	
Dibromomethane	ug/L	ND	20	21.2	106	75-125	
Dichlorodifluoromethane	ug/L	ND	20	28.0	140	70-150	
Dichlorofluoromethane	ug/L	ND	20	23.3	117	69-142	
Diethyl ether (Ethyl ether)	ug/L	ND	20	21.6	108	75-125	
Ethylbenzene	ug/L	ND	20	20.2	101	75-125	
Hexachloro-1,3-butadiene	ug/L	ND	20	18.8	94	75-135	
Isopropylbenzene (Cumene)	ug/L	ND	20	20.5	102	75-125	
Methyl-tert-butyl ether	ug/L	ND	20	21.2	106	70-132	
Methylene Chloride	ug/L	ND	20	21.5	108	73-125	
n-Butylbenzene	ug/L	ND	20	19.9	99	75-130	
n-Propylbenzene	ug/L	ND	20	20.0	100	75-128	
Naphthalene	ug/L	ND	20	20.6	103	73-126	
p-Isopropyltoluene	ug/L	ND	20	19.9	99	75-125	
sec-Butylbenzene	ug/L	ND	20	20.1	100	75-126	
Styrene	ug/L	ND	20	18.7	93	52-137	
tert-Butylbenzene	ug/L	ND	20	19.6	98	75-125	
Tetrachloroethene	ug/L	ND	20	21.0	105	75-130	
Tetrahydrofuran	ug/L	ND	200	225	113	69-125	
Toluene	ug/L	ND	20	20.2	101	75-125	
trans-1,2-Dichloroethene	ug/L	ND	20	22.6	113	75-135	
trans-1,3-Dichloropropene	ug/L	ND	20	19.8	99	75-125	
Trichloroethene	ug/L	ND	20	21.2	105	75-129	
Trichlorofluoromethane	ug/L	ND	20	27.2	136	75-150	
Vinyl chloride	ug/L	ND	20	23.4	117	75-147	
Xylene (Total)	ug/L	ND	60	61.2	102	75-125	
1,2-Dichloroethane-d4 (S)	%				111	75-125	
4-Bromofluorobenzene (S)	%				100	75-125	
Dibromofluoromethane (S)	%				107	75-125	
Toluene-d8 (S)	%				101	75-125	

SAMPLE DUPLICATE: 1384982

Parameter	Units	10221058012	Dup	RPD	Max	Qualifiers
		Result	Result		RPD	
1,1,1,2-Tetrachloroethane	ug/L	ND	ND		30	
1,1,1-Trichloroethane	ug/L	ND	ND		30	

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QUALITY CONTROL DATA

Project: CRC City of Rochester

Pace Project No.: 10221058

SAMPLE DUPLICATE: 1384982

Parameter	Units	10221058012 Result	Dup Result	RPD	Max RPD	Qualifiers
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	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	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	
Isopropylbenzene (Cumene)	ug/L	ND	ND		30	
Methyl-tert-butyl ether	ug/L	ND	ND		30	

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QUALITY CONTROL DATA

Project: CRC City of Rochester

Pace Project No.: 10221058

SAMPLE DUPLICATE: 1384982

Parameter	Units	10221058012 Result	Dup Result	RPD	Max RPD	Qualifiers
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	
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	2.3	2.1	7	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)	%	110	109	1		
4-Bromofluorobenzene (S)	%	101	102	1		
Dibromofluoromethane (S)	%	106	105	.9		
Toluene-d8 (S)	%	100	99	1		

QUALITY CONTROL DATA

Project: CRC City of Rochester

Pace Project No.: 10221058

QC Batch: MSV/22977

Analysis Method: EPA 8260

QC Batch Method: EPA 8260

Analysis Description: 8260 MSV 465 W

Associated Lab Samples: 10221058001, 10221058003, 10221058004

METHOD BLANK: 1385973

Matrix: Water

Associated Lab Samples: 10221058001, 10221058003, 10221058004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	1.0	03/04/13 20:14	
1,1,1-Trichloroethane	ug/L	ND	1.0	03/04/13 20:14	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	03/04/13 20:14	
1,1,2-Trichloroethane	ug/L	ND	1.0	03/04/13 20:14	
1,1,2-Trichlorotrifluoroethane	ug/L	ND	1.0	03/04/13 20:14	
1,1-Dichloroethane	ug/L	ND	1.0	03/04/13 20:14	
1,1-Dichloroethene	ug/L	ND	1.0	03/04/13 20:14	
1,1-Dichloropropene	ug/L	ND	1.0	03/04/13 20:14	
1,2,3-Trichlorobenzene	ug/L	ND	1.0	03/04/13 20:14	
1,2,3-Trichloropropane	ug/L	ND	4.0	03/04/13 20:14	
1,2,4-Trichlorobenzene	ug/L	ND	1.0	03/04/13 20:14	
1,2,4-Trimethylbenzene	ug/L	ND	1.0	03/04/13 20:14	
1,2-Dibromo-3-chloropropane	ug/L	ND	4.0	03/04/13 20:14	
1,2-Dibromoethane (EDB)	ug/L	ND	1.0	03/04/13 20:14	
1,2-Dichlorobenzene	ug/L	ND	1.0	03/04/13 20:14	
1,2-Dichloroethane	ug/L	ND	1.0	03/04/13 20:14	
1,2-Dichloropropane	ug/L	ND	4.0	03/04/13 20:14	
1,3,5-Trimethylbenzene	ug/L	ND	1.0	03/04/13 20:14	
1,3-Dichlorobenzene	ug/L	ND	1.0	03/04/13 20:14	
1,3-Dichloropropane	ug/L	ND	1.0	03/04/13 20:14	
1,4-Dichlorobenzene	ug/L	ND	1.0	03/04/13 20:14	
2,2-Dichloropropane	ug/L	ND	4.0	03/04/13 20:14	
2-Butanone (MEK)	ug/L	ND	5.0	03/04/13 20:14	
2-Chlorotoluene	ug/L	ND	1.0	03/04/13 20:14	
4-Chlorotoluene	ug/L	ND	1.0	03/04/13 20:14	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	5.0	03/04/13 20:14	
Acetone	ug/L	ND	20.0	03/04/13 20:14	
Allyl chloride	ug/L	ND	4.0	03/04/13 20:14	
Benzene	ug/L	ND	1.0	03/04/13 20:14	
Bromobenzene	ug/L	ND	1.0	03/04/13 20:14	
Bromochloromethane	ug/L	ND	1.0	03/04/13 20:14	
Bromodichloromethane	ug/L	ND	1.0	03/04/13 20:14	
Bromoform	ug/L	ND	4.0	03/04/13 20:14	
Bromomethane	ug/L	ND	10.0	03/04/13 20:14	
Carbon tetrachloride	ug/L	ND	1.0	03/04/13 20:14	
Chlorobenzene	ug/L	ND	1.0	03/04/13 20:14	
Chloroethane	ug/L	ND	1.0	03/04/13 20:14	
Chloroform	ug/L	ND	1.0	03/04/13 20:14	
Chloromethane	ug/L	ND	4.0	03/04/13 20:14	
cis-1,2-Dichloroethene	ug/L	ND	1.0	03/04/13 20:14	
cis-1,3-Dichloropropene	ug/L	ND	4.0	03/04/13 20:14	
Dibromochloromethane	ug/L	ND	1.0	03/04/13 20:14	
Dibromomethane	ug/L	ND	4.0	03/04/13 20:14	

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QUALITY CONTROL DATA

Project: CRC City of Rochester

Pace Project No.: 10221058

METHOD BLANK: 1385973 Matrix: Water

Associated Lab Samples: 10221058001, 10221058003, 10221058004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Dichlorodifluoromethane	ug/L	ND	1.0	03/04/13 20:14	
Dichlorofluoromethane	ug/L	ND	1.0	03/04/13 20:14	
Diethyl ether (Ethyl ether)	ug/L	ND	4.0	03/04/13 20:14	
Ethylbenzene	ug/L	ND	1.0	03/04/13 20:14	
Hexachloro-1,3-butadiene	ug/L	ND	5.0	03/04/13 20:14	
Isopropylbenzene (Cumene)	ug/L	ND	1.0	03/04/13 20:14	
Methyl-tert-butyl ether	ug/L	ND	1.0	03/04/13 20:14	
Methylene Chloride	ug/L	ND	4.0	03/04/13 20:14	
n-Butylbenzene	ug/L	ND	1.0	03/04/13 20:14	
n-Propylbenzene	ug/L	ND	1.0	03/04/13 20:14	
Naphthalene	ug/L	ND	4.0	03/04/13 20:14	
p-Isopropyltoluene	ug/L	ND	1.0	03/04/13 20:14	
sec-Butylbenzene	ug/L	ND	1.0	03/04/13 20:14	
Styrene	ug/L	ND	1.0	03/04/13 20:14	
tert-Butylbenzene	ug/L	ND	1.0	03/04/13 20:14	
Tetrachloroethene	ug/L	ND	1.0	03/04/13 20:14	
Tetrahydrofuran	ug/L	ND	10.0	03/04/13 20:14	
Toluene	ug/L	ND	1.0	03/04/13 20:14	
trans-1,2-Dichloroethene	ug/L	ND	1.0	03/04/13 20:14	
trans-1,3-Dichloropropene	ug/L	ND	4.0	03/04/13 20:14	
Trichloroethene	ug/L	ND	1.0	03/04/13 20:14	
Trichlorofluoromethane	ug/L	ND	1.0	03/04/13 20:14	
Vinyl chloride	ug/L	ND	0.40	03/04/13 20:14	
Xylene (Total)	ug/L	ND	3.0	03/04/13 20:14	
1,2-Dichloroethane-d4 (S)	%	100	75-125	03/04/13 20:14	
4-Bromofluorobenzene (S)	%	101	75-125	03/04/13 20:14	
Toluene-d8 (S)	%	99	75-125	03/04/13 20:14	

LABORATORY CONTROL SAMPLE: 1385974

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	46.6	93	75-125	
1,1,1-Trichloroethane	ug/L	50	49.5	99	75-126	
1,1,2,2-Tetrachloroethane	ug/L	50	48.2	96	75-125	
1,1,2-Trichloroethane	ug/L	50	48.5	97	75-125	
1,1,2-Trichlorotrifluoroethane	ug/L	50	43.9	88	51-139	
1,1-Dichloroethane	ug/L	50	49.3	99	75-125	
1,1-Dichloroethene	ug/L	50	48.7	97	71-126	
1,1-Dichloropropene	ug/L	50	49.2	98	74-125	
1,2,3-Trichlorobenzene	ug/L	50	44.1	88	75-125	
1,2,3-Trichloropropane	ug/L	50	47.8	96	75-125	
1,2,4-Trichlorobenzene	ug/L	50	44.4	89	75-125	
1,2,4-Trimethylbenzene	ug/L	50	47.6	95	75-125	
1,2-Dibromo-3-chloropropane	ug/L	125	118	95	73-125	
1,2-Dibromoethane (EDB)	ug/L	50	49.0	98	75-125	

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QUALITY CONTROL DATA

Project: CRC City of Rochester

Pace Project No.: 10221058

LABORATORY CONTROL SAMPLE: 1385974

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichlorobenzene	ug/L	50	46.7	93	75-125	
1,2-Dichloroethane	ug/L	50	49.7	99	74-125	
1,2-Dichloropropane	ug/L	50	48.5	97	75-125	
1,3,5-Trimethylbenzene	ug/L	50	46.8	94	75-125	
1,3-Dichlorobenzene	ug/L	50	46.9	94	75-125	
1,3-Dichloropropane	ug/L	50	48.3	97	75-125	
1,4-Dichlorobenzene	ug/L	50	46.4	93	75-125	
2,2-Dichloropropane	ug/L	50	49.0	98	67-132	
2-Butanone (MEK)	ug/L	250	252	101	68-126	
2-Chlorotoluene	ug/L	50	46.3	93	74-125	
4-Chlorotoluene	ug/L	50	46.4	93	74-125	
4-Methyl-2-pentanone (MIBK)	ug/L	250	253	101	72-125	
Acetone	ug/L	250	225	90	69-132	
Allyl chloride	ug/L	50	51.9	104	74-125	
Benzene	ug/L	50	48.4	97	75-125	
Bromobenzene	ug/L	50	46.6	93	75-125	
Bromochloromethane	ug/L	50	47.3	95	75-125	
Bromodichloromethane	ug/L	50	49.1	98	75-125	
Bromoform	ug/L	50	48.3	97	75-126	
Bromomethane	ug/L	50	38.7	77	30-150	
Carbon tetrachloride	ug/L	50	50.0	100	74-127	
Chlorobenzene	ug/L	50	48.1	96	75-125	
Chloroethane	ug/L	50	45.7	91	68-132	
Chloroform	ug/L	50	49.4	99	75-125	
Chloromethane	ug/L	50	36.8	74	61-129	
cis-1,2-Dichloroethene	ug/L	50	49.6	99	75-125	
cis-1,3-Dichloropropene	ug/L	50	47.6	95	75-125	
Dibromochloromethane	ug/L	50	50.3	101	75-125	
Dibromomethane	ug/L	50	49.4	99	75-125	
Dichlorodifluoromethane	ug/L	50	46.6	93	49-137	
Dichlorofluoromethane	ug/L	50	47.0	94	66-133	
Diethyl ether (Ethyl ether)	ug/L	50	49.9	100	75-125	
Ethylbenzene	ug/L	50	47.0	94	75-125	
Hexachloro-1,3-butadiene	ug/L	50	43.9	88	69-127	
Isopropylbenzene (Cumene)	ug/L	50	47.8	96	75-125	
Methyl-tert-butyl ether	ug/L	50	51.1	102	74-126	
Methylene Chloride	ug/L	50	46.4	93	75-125	
n-Butylbenzene	ug/L	50	42.6	85	72-126	
n-Propylbenzene	ug/L	50	46.1	92	73-125	
Naphthalene	ug/L	50	45.3	91	75-125	
p-Isopropyltoluene	ug/L	50	43.3	87	74-125	
sec-Butylbenzene	ug/L	50	42.8	86	73-125	
Styrene	ug/L	50	49.1	98	75-125	
tert-Butylbenzene	ug/L	50	46.2	92	73-125	
Tetrachloroethene	ug/L	50	47.1	94	75-125	
Tetrahydrofuran	ug/L	500	500	100	71-125	
Toluene	ug/L	50	47.6	95	75-125	
trans-1,2-Dichloroethene	ug/L	50	48.9	98	74-125	

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QUALITY CONTROL DATA

Project: CRC City of Rochester

Pace Project No.: 10221058

LABORATORY CONTROL SAMPLE: 1385974

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
trans-1,3-Dichloropropene	ug/L	50	47.3	95	75-125	
Trichloroethene	ug/L	50	47.6	95	75-125	
Trichlorofluoromethane	ug/L	50	47.3	95	69-129	
Vinyl chloride	ug/L	50	45.2	90	70-128	
Xylene (Total)	ug/L	150	144	96	75-125	
1,2-Dichloroethane-d4 (S)	%			100	75-125	
4-Bromofluorobenzene (S)	%			100	75-125	
Toluene-d8 (S)	%			100	75-125	

MATRIX SPIKE SAMPLE: 1388087

Parameter	Units	10221133001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L		ND	50	48.3	97	75-125
1,1,1-Trichloroethane	ug/L		ND	50	56.3	113	75-136
1,1,2,2-Tetrachloroethane	ug/L		ND	50	47.3	95	66-131
1,1,2-Trichloroethane	ug/L		ND	50	48.6	97	75-125
1,1,2-Trichlorotrifluoroethane	ug/L		ND	50	65.0	130	75-150
1,1-Dichloroethane	ug/L		ND	50	52.5	105	75-131
1,1-Dichloroethene	ug/L		ND	50	57.7	115	75-138
1,1-Dichloropropene	ug/L		ND	50	56.8	114	75-136
1,2,3-Trichlorobenzene	ug/L		ND	50	45.8	92	75-125
1,2,3-Trichloropropane	ug/L		ND	50	46.4	93	71-126
1,2,4-Trichlorobenzene	ug/L		ND	50	46.7	93	75-125
1,2,4-Trimethylbenzene	ug/L		ND	50	51.3	102	70-126
1,2-Dibromo-3-chloropropane	ug/L		ND	125	115	92	69-127
1,2-Dibromoethane (EDB)	ug/L		ND	50	48.9	98	75-125
1,2-Dichlorobenzene	ug/L		ND	50	48.9	98	75-125
1,2-Dichloroethane	ug/L		ND	50	49.8	100	74-128
1,2-Dichloropropane	ug/L		ND	50	50.7	101	75-125
1,3,5-Trimethylbenzene	ug/L		ND	50	51.0	102	72-126
1,3-Dichlorobenzene	ug/L		ND	50	49.8	100	75-125
1,3-Dichloropropane	ug/L		ND	50	48.5	97	75-125
1,4-Dichlorobenzene	ug/L		ND	50	49.1	98	75-125
2,2-Dichloropropane	ug/L		ND	50	56.0	112	71-143
2-Butanone (MEK)	ug/L		ND	250	242	97	64-125
2-Chlorotoluene	ug/L		ND	50	49.7	99	74-125
4-Chlorotoluene	ug/L		ND	50	49.5	99	75-125
4-Methyl-2-pentanone (MIBK)	ug/L		ND	250	245	98	69-125
Acetone	ug/L		ND	250	230	92	57-135
Allyl chloride	ug/L		ND	50	59.5	119	73-134
Benzene	ug/L		ND	50	51.8	104	70-135
Bromobenzene	ug/L		ND	50	48.0	96	75-125
Bromochloromethane	ug/L		ND	50	47.7	95	75-125
Bromodichloromethane	ug/L		ND	50	51.1	102	75-125
Bromoform	ug/L		ND	50	48.3	97	68-133
Bromomethane	ug/L		ND	50	48.0	96	56-150
Carbon tetrachloride	ug/L		ND	50	59.3	119	75-137

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QUALITY CONTROL DATA

Project: CRC City of Rochester

Pace Project No.: 10221058

MATRIX SPIKE SAMPLE: 1388087		10221133001	Spike	MS	MS	% Rec	
Parameter	Units	Result	Conc.	Result	% Rec	Limits	Qualifiers
Chlorobenzene	ug/L	ND	50	50.4	101	75-125	
Chloroethane	ug/L	ND	50	52.1	104	64-150	
Chloroform	ug/L	ND	50	51.9	104	75-127	
Chloromethane	ug/L	ND	50	43.4	87	65-140	
cis-1,2-Dichloroethene	ug/L	ND	50	52.6	105	75-129	
cis-1,3-Dichloropropene	ug/L	ND	50	48.6	97	75-125	
Dibromochloromethane	ug/L	ND	50	51.1	102	75-125	
Dibromomethane	ug/L	ND	50	49.0	98	75-125	
Dichlorodifluoromethane	ug/L	ND	50	66.6	133	70-150	
Dichlorofluoromethane	ug/L	ND	50	51.0	102	69-142	
Diethyl ether (Ethyl ether)	ug/L	ND	50	49.1	98	75-125	
Ethylbenzene	ug/L	ND	50	51.5	103	75-125	
Hexachloro-1,3-butadiene	ug/L	ND	50	49.7	99	75-135	
Isopropylbenzene (Cumene)	ug/L	ND	50	53.5	107	75-125	
Methyl-tert-butyl ether	ug/L	ND	50	50.2	100	70-132	
Methylene Chloride	ug/L	ND	50	47.9	96	73-125	
n-Butylbenzene	ug/L	ND	50	49.3	99	75-130	
n-Propylbenzene	ug/L	ND	50	51.6	103	75-128	
Naphthalene	ug/L	ND	50	45.2	89	73-126	
p-Isopropyltoluene	ug/L	ND	50	48.9	98	75-125	
sec-Butylbenzene	ug/L	ND	50	49.3	99	75-126	
Styrene	ug/L	ND	50	51.4	103	52-137	
tert-Butylbenzene	ug/L	ND	50	52.0	104	75-125	
Tetrachloroethene	ug/L	ND	50	53.8	108	75-130	
Tetrahydrofuran	ug/L	ND	500	477	95	69-125	
Toluene	ug/L	ND	50	50.7	101	75-125	
trans-1,2-Dichloroethene	ug/L	ND	50	54.6	109	75-135	
trans-1,3-Dichloropropene	ug/L	ND	50	48.4	97	75-125	
Trichloroethene	ug/L	ND	50	52.5	105	75-129	
Trichlorofluoromethane	ug/L	ND	50	60.1	120	75-150	
Vinyl chloride	ug/L	ND	50	55.2	110	75-147	
Xylene (Total)	ug/L	ND	150	155	103	75-125	
1,2-Dichloroethane-d4 (S)	%				100	75-125	
4-Bromofluorobenzene (S)	%				99	75-125	
Toluene-d8 (S)	%				100	75-125	

SAMPLE DUPLICATE: 1388088

Parameter	Units	10221133002	Dup	RPD	Max	Qualifiers
		Result	Result		RPD	
1,1,1,2-Tetrachloroethane	ug/L	ND	ND		30	
1,1,1-Trichloroethane	ug/L	ND	ND		30	
1,1,1,2-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	

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QUALITY CONTROL DATA

Project: CRC City of Rochester

Pace Project No.: 10221058

SAMPLE DUPLICATE: 1388088

Parameter	Units	10221133002 Result	Dup Result	RPD	Max RPD	Qualifiers
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	.56J		30	
1,3-Dichlorobenzene	ug/L	ND	ND		30	
1,3-Dichloropropane	ug/L	ND	ND		30	
1,4-Dichlorobenzene	ug/L	ND	.1J		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	
Isopropylbenzene (Cumene)	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	
p-Isopropyltoluene	ug/L	ND	ND		30	
sec-Butylbenzene	ug/L	ND	ND		30	

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QUALITY CONTROL DATA

Project: CRC City of Rochester

Pace Project No.: 10221058

SAMPLE DUPLICATE: 1388088

Parameter	Units	10221133002 Result	Dup Result	RPD	Max RPD	Qualifiers
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	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)	%	96	96	.6		
4-Bromofluorobenzene (S)	%	100	101	1		
Toluene-d8 (S)	%	98	98	.3		

QUALITY CONTROL DATA

Project: CRC City of Rochester
Pace Project No.: 10221058

QC Batch: MSV/22986 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV 465 W
Associated Lab Samples: 10221058002

METHOD BLANK: 1386173 Matrix: Water
Associated Lab Samples: 10221058002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	1.0	03/05/13 10:59	
1,1,1-Trichloroethane	ug/L	ND	1.0	03/05/13 10:59	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	03/05/13 10:59	
1,1,2-Trichloroethane	ug/L	ND	1.0	03/05/13 10:59	
1,1,2-Trichlorotrifluoroethane	ug/L	ND	1.0	03/05/13 10:59	
1,1-Dichloroethane	ug/L	ND	1.0	03/05/13 10:59	
1,1-Dichloroethene	ug/L	ND	1.0	03/05/13 10:59	
1,1-Dichloropropene	ug/L	ND	1.0	03/05/13 10:59	
1,2,3-Trichlorobenzene	ug/L	ND	1.0	03/05/13 10:59	
1,2,3-Trichloropropane	ug/L	ND	4.0	03/05/13 10:59	
1,2,4-Trichlorobenzene	ug/L	ND	1.0	03/05/13 10:59	
1,2,4-Trimethylbenzene	ug/L	ND	1.0	03/05/13 10:59	
1,2-Dibromo-3-chloropropane	ug/L	ND	4.0	03/05/13 10:59	
1,2-Dibromoethane (EDB)	ug/L	ND	1.0	03/05/13 10:59	
1,2-Dichlorobenzene	ug/L	ND	1.0	03/05/13 10:59	
1,2-Dichloroethane	ug/L	ND	1.0	03/05/13 10:59	
1,2-Dichloropropane	ug/L	ND	4.0	03/05/13 10:59	
1,3,5-Trimethylbenzene	ug/L	ND	1.0	03/05/13 10:59	
1,3-Dichlorobenzene	ug/L	ND	1.0	03/05/13 10:59	
1,3-Dichloropropane	ug/L	ND	1.0	03/05/13 10:59	
1,4-Dichlorobenzene	ug/L	ND	1.0	03/05/13 10:59	
2,2-Dichloropropane	ug/L	ND	4.0	03/05/13 10:59	
2-Butanone (MEK)	ug/L	ND	5.0	03/05/13 10:59	
2-Chlorotoluene	ug/L	ND	1.0	03/05/13 10:59	
4-Chlorotoluene	ug/L	ND	1.0	03/05/13 10:59	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	5.0	03/05/13 10:59	
Acetone	ug/L	ND	20.0	03/05/13 10:59	
Allyl chloride	ug/L	ND	4.0	03/05/13 10:59	
Benzene	ug/L	ND	1.0	03/05/13 10:59	
Bromobenzene	ug/L	ND	1.0	03/05/13 10:59	
Bromochloromethane	ug/L	ND	1.0	03/05/13 10:59	
Bromodichloromethane	ug/L	ND	1.0	03/05/13 10:59	
Bromoform	ug/L	ND	4.0	03/05/13 10:59	
Bromomethane	ug/L	ND	10.0	03/05/13 10:59	
Carbon tetrachloride	ug/L	ND	1.0	03/05/13 10:59	
Chlorobenzene	ug/L	ND	1.0	03/05/13 10:59	
Chloroethane	ug/L	ND	1.0	03/05/13 10:59	
Chloroform	ug/L	ND	1.0	03/05/13 10:59	
Chloromethane	ug/L	ND	4.0	03/05/13 10:59	
cis-1,2-Dichloroethene	ug/L	ND	1.0	03/05/13 10:59	
cis-1,3-Dichloropropene	ug/L	ND	4.0	03/05/13 10:59	
Dibromochloromethane	ug/L	ND	1.0	03/05/13 10:59	
Dibromomethane	ug/L	ND	4.0	03/05/13 10:59	

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QUALITY CONTROL DATA

Project: CRC City of Rochester

Pace Project No.: 10221058

METHOD BLANK: 1386173

Matrix: Water

Associated Lab Samples: 10221058002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Dichlorodifluoromethane	ug/L	ND	1.0	03/05/13 10:59	
Dichlorofluoromethane	ug/L	ND	1.0	03/05/13 10:59	
Diethyl ether (Ethyl ether)	ug/L	ND	4.0	03/05/13 10:59	
Ethylbenzene	ug/L	ND	1.0	03/05/13 10:59	
Hexachloro-1,3-butadiene	ug/L	ND	5.0	03/05/13 10:59	
Isopropylbenzene (Cumene)	ug/L	ND	1.0	03/05/13 10:59	
Methyl-tert-butyl ether	ug/L	ND	1.0	03/05/13 10:59	
Methylene Chloride	ug/L	ND	4.0	03/05/13 10:59	
n-Butylbenzene	ug/L	ND	1.0	03/05/13 10:59	
n-Propylbenzene	ug/L	ND	1.0	03/05/13 10:59	
Naphthalene	ug/L	ND	4.0	03/05/13 10:59	
p-Isopropyltoluene	ug/L	ND	1.0	03/05/13 10:59	
sec-Butylbenzene	ug/L	ND	1.0	03/05/13 10:59	
Styrene	ug/L	ND	1.0	03/05/13 10:59	
tert-Butylbenzene	ug/L	ND	1.0	03/05/13 10:59	
Tetrachloroethene	ug/L	ND	1.0	03/05/13 10:59	
Tetrahydrofuran	ug/L	ND	10.0	03/05/13 10:59	
Toluene	ug/L	ND	1.0	03/05/13 10:59	
trans-1,2-Dichloroethene	ug/L	ND	1.0	03/05/13 10:59	
trans-1,3-Dichloropropene	ug/L	ND	4.0	03/05/13 10:59	
Trichloroethene	ug/L	ND	1.0	03/05/13 10:59	
Trichlorofluoromethane	ug/L	ND	1.0	03/05/13 10:59	
Vinyl chloride	ug/L	ND	0.40	03/05/13 10:59	
Xylene (Total)	ug/L	ND	3.0	03/05/13 10:59	
1,2-Dichloroethane-d4 (S)	%	90	75-125	03/05/13 10:59	
4-Bromofluorobenzene (S)	%	99	75-125	03/05/13 10:59	
Toluene-d8 (S)	%	100	75-125	03/05/13 10:59	

LABORATORY CONTROL SAMPLE: 1386174

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	20	22.5	112	75-125	
1,1,1-Trichloroethane	ug/L	20	19.9	99	75-126	
1,1,1,2-Tetrachloroethane	ug/L	20	21.0	105	75-125	
1,1,2-Trichloroethane	ug/L	20	21.1	105	75-125	
1,1,2-Trichlorotrifluoroethane	ug/L	20	20.2	101	51-139	
1,1-Dichloroethane	ug/L	20	19.0	95	75-125	
1,1-Dichloroethene	ug/L	20	20.1	100	71-126	
1,1-Dichloropropene	ug/L	20	19.7	99	74-125	
1,2,3-Trichlorobenzene	ug/L	20	20.4	102	75-125	
1,2,3-Trichloropropane	ug/L	20	20.4	102	75-125	
1,2,4-Trichlorobenzene	ug/L	20	20.8	104	75-125	
1,2,4-Trimethylbenzene	ug/L	20	21.8	109	75-125	
1,2-Dibromo-3-chloropropane	ug/L	50	50.6	101	73-125	
1,2-Dibromoethane (EDB)	ug/L	20	21.7	109	75-125	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: CRC City of Rochester

Pace Project No.: 10221058

LABORATORY CONTROL SAMPLE: 1386174

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichlorobenzene	ug/L	20	21.1	106	75-125	
1,2-Dichloroethane	ug/L	20	19.2	96	74-125	
1,2-Dichloropropane	ug/L	20	21.6	108	75-125	
1,3,5-Trimethylbenzene	ug/L	20	21.4	107	75-125	
1,3-Dichlorobenzene	ug/L	20	21.1	106	75-125	
1,3-Dichloropropane	ug/L	20	20.9	105	75-125	
1,4-Dichlorobenzene	ug/L	20	20.8	104	75-125	
2,2-Dichloropropane	ug/L	20	19.3	97	67-132	
2-Butanone (MEK)	ug/L	100	89.1	89	68-126	
2-Chlorotoluene	ug/L	20	21.1	106	74-125	
4-Chlorotoluene	ug/L	20	21.0	105	74-125	
4-Methyl-2-pentanone (MIBK)	ug/L	100	100	100	72-125	
Acetone	ug/L	100	107	107	69-132	
Allyl chloride	ug/L	20	19.8	99	74-125	
Benzene	ug/L	20	19.8	99	75-125	
Bromobenzene	ug/L	20	20.8	104	75-125	
Bromochloromethane	ug/L	20	21.0	105	75-125	
Bromodichloromethane	ug/L	20	21.7	108	75-125	
Bromoform	ug/L	20	21.9	109	75-126	
Bromomethane	ug/L	20	22.7	114	30-150	
Carbon tetrachloride	ug/L	20	19.9	99	74-127	
Chlorobenzene	ug/L	20	21.5	108	75-125	
Chloroethane	ug/L	20	20.5	103	68-132	
Chloroform	ug/L	20	19.9	99	75-125	
Chloromethane	ug/L	20	19.2	96	61-129	
cis-1,2-Dichloroethene	ug/L	20	19.8	99	75-125	
cis-1,3-Dichloropropene	ug/L	20	22.0	110	75-125	
Dibromochloromethane	ug/L	20	22.7	114	75-125	
Dibromomethane	ug/L	20	21.3	106	75-125	
Dichlorodifluoromethane	ug/L	20	20.0	100	49-137	
Dichlorofluoromethane	ug/L	20	19.1	95	66-133	
Diethyl ether (Ethyl ether)	ug/L	20	19.1	96	75-125	
Ethylbenzene	ug/L	20	21.5	107	75-125	
Hexachloro-1,3-butadiene	ug/L	20	20.8	104	69-127	
Isopropylbenzene (Cumene)	ug/L	20	22.3	112	75-125	
Methyl-tert-butyl ether	ug/L	20	18.7	94	74-126	
Methylene Chloride	ug/L	20	18.5	92	75-125	
n-Butylbenzene	ug/L	20	21.9	109	72-126	
n-Propylbenzene	ug/L	20	21.9	109	73-125	
Naphthalene	ug/L	20	20.8	104	75-125	
p-Isopropyltoluene	ug/L	20	21.8	109	74-125	
sec-Butylbenzene	ug/L	20	21.9	109	73-125	
Styrene	ug/L	20	22.6	113	75-125	
tert-Butylbenzene	ug/L	20	21.2	106	73-125	
Tetrachloroethene	ug/L	20	22.3	112	75-125	
Tetrahydrofuran	ug/L	200	182	91	71-125	
Toluene	ug/L	20	21.5	108	75-125	
trans-1,2-Dichloroethene	ug/L	20	20.2	101	74-125	

QUALITY CONTROL DATA

Project: CRC City of Rochester

Pace Project No.: 10221058

LABORATORY CONTROL SAMPLE: 1386174

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
trans-1,3-Dichloropropene	ug/L	20	22.2	111	75-125	
Trichloroethene	ug/L	20	21.9	109	75-125	
Trichlorofluoromethane	ug/L	20	20.6	103	69-129	
Vinyl chloride	ug/L	20	19.8	99	70-128	
Xylene (Total)	ug/L	60	66.0	110	75-125	
1,2-Dichloroethane-d4 (S)	%			88	75-125	
4-Bromofluorobenzene (S)	%			98	75-125	
Toluene-d8 (S)	%			98	75-125	

MATRIX SPIKE SAMPLE: 1386662

Parameter	Units	10221468012 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	20	23.5	118	75-125	
1,1,1-Trichloroethane	ug/L	ND	20	21.7	109	75-136	
1,1,2,2-Tetrachloroethane	ug/L	ND	20	22.1	111	66-131	
1,1,2-Trichloroethane	ug/L	ND	20	22.2	111	75-125	
1,1,2-Trichlorotrifluoroethane	ug/L	ND	20	28.7	144	75-150	
1,1-Dichloroethane	ug/L	ND	20	20.7	103	75-131	
1,1-Dichloroethene	ug/L	ND	20	22.2	111	75-138	
1,1-Dichloropropene	ug/L	ND	20	22.2	111	75-136	
1,2,3-Trichlorobenzene	ug/L	ND	20	21.7	108	75-125	
1,2,3-Trichloropropane	ug/L	ND	20	22.0	110	71-126	
1,2,4-Trichlorobenzene	ug/L	ND	20	21.7	108	75-125	
1,2,4-Trimethylbenzene	ug/L	ND	20	22.9	114	70-126	
1,2-Dibromo-3-chloropropane	ug/L	ND	50	54.5	109	69-127	
1,2-Dibromoethane (EDB)	ug/L	ND	20	22.8	114	75-125	
1,2-Dichlorobenzene	ug/L	ND	20	22.3	112	75-125	
1,2-Dichloroethane	ug/L	ND	20	19.7	99	74-128	
1,2-Dichloropropane	ug/L	ND	20	22.5	113	75-125	
1,3,5-Trimethylbenzene	ug/L	ND	20	22.6	113	72-126	
1,3-Dichlorobenzene	ug/L	ND	20	22.2	111	75-125	
1,3-Dichloropropane	ug/L	ND	20	22.1	110	75-125	
1,4-Dichlorobenzene	ug/L	ND	20	22.3	112	75-125	
2,2-Dichloropropane	ug/L	ND	20	20.2	101	71-143	
2-Butanone (MEK)	ug/L	ND	100	90.8	91	64-125	
2-Chlorotoluene	ug/L	ND	20	22.3	112	74-125	
4-Chlorotoluene	ug/L	ND	20	22.4	112	75-125	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	100	107	107	69-125	
Acetone	ug/L	ND	100	116	116	57-135	
Allyl chloride	ug/L	ND	20	21.1	106	73-134	
Benzene	ug/L	ND	20	20.6	103	70-135	
Bromobenzene	ug/L	ND	20	22.6	113	75-125	
Bromochloromethane	ug/L	ND	20	22.1	111	75-125	
Bromodichloromethane	ug/L	ND	20	22.4	112	75-125	
Bromoform	ug/L	ND	20	23.0	115	68-133	
Bromomethane	ug/L	ND	20	14.6	73	56-150	
Carbon tetrachloride	ug/L	ND	20	22.6	113	75-137	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: CRC City of Rochester

Pace Project No.: 10221058

MATRIX SPIKE SAMPLE: 1386662		10221468012	Spike	MS	MS	% Rec	
Parameter	Units	Result	Conc.	Result	% Rec	Limits	Qualifiers
Chlorobenzene	ug/L	ND	20	23.0	115	75-125	
Chloroethane	ug/L	ND	20	22.5	112	64-150	
Chloroform	ug/L	ND	20	21.0	105	75-127	
Chloromethane	ug/L	ND	20	20.4	102	65-140	
cis-1,2-Dichloroethene	ug/L	ND	20	20.7	103	75-129	
cis-1,3-Dichloropropene	ug/L	ND	20	22.3	111	75-125	
Dibromochloromethane	ug/L	ND	20	23.5	118	75-125	
Dibromomethane	ug/L	ND	20	22.0	110	75-125	
Dichlorodifluoromethane	ug/L	ND	20	26.8	134	70-150	
Dichlorofluoromethane	ug/L	ND	20	21.0	105	69-142	
Diethyl ether (Ethyl ether)	ug/L	ND	20	19.3	97	75-125	
Ethylbenzene	ug/L	ND	20	23.0	115	75-125	
Hexachloro-1,3-butadiene	ug/L	ND	20	21.6	108	75-135	
Isopropylbenzene (Cumene)	ug/L	ND	20	24.2	121	75-125	
Methyl-tert-butyl ether	ug/L	ND	20	19.6	98	70-132	
Methylene Chloride	ug/L	ND	20	19.3	97	73-125	
n-Butylbenzene	ug/L	ND	20	22.5	112	75-130	
n-Propylbenzene	ug/L	ND	20	23.6	118	75-128	
Naphthalene	ug/L	ND	20	22.5	113	73-126	
p-Isopropyltoluene	ug/L	ND	20	23.0	115	75-125	
sec-Butylbenzene	ug/L	ND	20	23.4	117	75-126	
Styrene	ug/L	ND	20	23.6	118	52-137	
tert-Butylbenzene	ug/L	ND	20	23.3	116	75-125	
Tetrachloroethene	ug/L	ND	20	25.0	125	75-130	
Tetrahydrofuran	ug/L	ND	200	189	95	69-125	
Toluene	ug/L	ND	20	23.1	116	75-125	
trans-1,2-Dichloroethene	ug/L	ND	20	21.1	106	75-135	
trans-1,3-Dichloropropene	ug/L	ND	20	22.7	114	75-125	
Trichloroethene	ug/L	ND	20	23.7	119	75-129	
Trichlorofluoromethane	ug/L	ND	20	25.5	127	75-150	
Vinyl chloride	ug/L	ND	20	21.9	110	75-147	
Xylene (Total)	ug/L	ND	60	71.0	118	75-125	
1,2-Dichloroethane-d4 (S)	%				85	75-125	
4-Bromofluorobenzene (S)	%				98	75-125	
Toluene-d8 (S)	%				97	75-125	

SAMPLE DUPLICATE: 1386661

Parameter	Units	10221468008	Dup	RPD	Max	Qualifiers
		Result	Result		RPD	
1,1,1,2-Tetrachloroethane	ug/L	ND	ND		30	
1,1,1-Trichloroethane	ug/L	ND	ND		30	
1,1,1,2-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	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: CRC City of Rochester

Pace Project No.: 10221058

SAMPLE DUPLICATE: 1386661

Parameter	Units	10221468008 Result	Dup Result	RPD	Max RPD	Qualifiers
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	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	.35J		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	
Isopropylbenzene (Cumene)	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	
p-Isopropyltoluene	ug/L	ND	ND		30	
sec-Butylbenzene	ug/L	ND	ND		30	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: CRC City of Rochester

Pace Project No.: 10221058

SAMPLE DUPLICATE: 1386661

Parameter	Units	10221468008 Result	Dup Result	RPD	Max RPD	Qualifiers
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	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)	%	93	87	6		
4-Bromofluorobenzene (S)	%	99	100	.7		
Toluene-d8 (S)	%	98	98	.3		

QUALIFIERS

Project: CRC City of Rochester

Pace Project No.: 10221058

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

CH The continuing calibration for this compound is outside of Pace Analytical acceptance limits. The results may be biased high.

HS Results are from sample aliquot taken from VOA vial with headspace (air bubble greater than 6 mm diameter).

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

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: CRC City of Rochester

Pace Project No.: 10221058

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10221058001	DPE-1	EPA 8260	MSV/22977		
10221058002	DPE-2	EPA 8260	MSV/22986		
10221058003	DPE-3	EPA 8260	MSV/22977		
10221058004	DPE-4	EPA 8260	MSV/22977		
10221058005	DPE-5	EPA 8260	MSV/22962		
10221058006	DPE-6	EPA 8260	MSV/22963		
10221058007	DPE-7	EPA 8260	MSV/22963		
10221058008	MW-14	EPA 8260	MSV/22963		
10221058009	MW-15	EPA 8260	MSV/22963		
10221058010	MW-16	EPA 8260	MSV/22963		
10221058011	MW-17	EPA 8260	MSV/22963		
10221058012	MW-18	EPA 8260	MSV/22963		
10221058013	MW-19	EPA 8260	MSV/22963		
10221058014	MW-20	EPA 8260	MSV/22963		
10221058015	Trip Blank	EPA 8260	MSV/22963		



CHAIN-OF-CUSTODY / Analytical Request Document

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

1022-1054

Section A		Section B		Section C	
Required Client Information:		Required Project Information:		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		Purchase Order No.:		Address: 2042 W. 98th St. Bloomington, MN 55431	
Email To: jskramstad@landmarkenv.com		Project Name: City of Rochester		Pace Quote Reference:	
Phone: 952-887-9601, ext 205		Project Number: CRC		Pace Project Manager: Carolyne Trout	
Requested Due Date/TAT: Normal		Valid Matrix Codes		Pace Profile #:	

ITEM #	Section D Required Client Information	Matrix	CODE	COLLECTED		# OF CONTAINERS	PRESERVATIVES	Requested Analysis	Filtered (Y/N)	Pace Project Number	Lab ID.
				DATE	TIME						
1											
2											
3	D P E - 1	W	G	2/26/13	4:30	3		X			001
4	D P E - 2	W	G	2/26/13	5:00	3		X			002
5	D P E - 3	W	G	2/26/13	5:30	3		X			003
6	D P E - 4	W	G	2/26/13	6:00	3		X			004
7	D P E - 5	W	G	2/26/13	6:30	3		X			005
8	D P E - 6	W	G	2/26/13	7:00	3		X			006
9	D P E - 7	W	G	2/26/13	7:30	3		X			007

Additional Comments:

RELINQUISHED BY / AFFILIATION: *Eric Gabrielson* DATE: 2/26/13 TIME: 1418 15

ACCEPTED BY / AFFILIATION: *Eric Gabrielson* DATE: 2/26/13 TIME: 1418 15

SAMPLER NAME AND SIGNATURE: *Eric Gabrielson*

PRINT Name of SAMPLER: Eric Gabrielson

SIGNATURE of SAMPLER: *Eric Gabrielson* DATE Signed (MM/DD/YY): 2/26/13

Temp in °C: _____

Received on Ice: Y/N

Custody Sealed Cooler: Y/N

Samples Intact: Y/N



CHAIN-OF-CUSTODY / Analytical Request Document

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

10221058

Section A
Required Client Information:
 Company: Landmark Environmental
 Address: 2042 W. 98th Street
 Bloomington, MN 55431
 Email To: jskramstad@landmarkenv.com
 Phone: 952-887-9601, Fax: 952-887-9605
 ext 205

Section B
Required Project Information:
 Report To: Jason Skramstad
 Copy To: Eric Gabrielson
 Purchase Order No.:
 Project Name: City of Rochester
 Project Number: CRC

Section C
Invoice Information:
 Attention: Jason Skramstad
 Company Name: Landmark Environmental, LLC
 Address: 2042 W. 98th St., Bloomington, MN 55431
 Pace Quote Reference:
 Pace Project Manager: Carolynne Trout
 Pace Profile #:

ITEM #	Section D Required Client Information		Valid Matrix Codes		COLLECTED		PRESERVATIVES		Requested Analysis	Pace Project Number Lab I.D.		
	SAMPLE ID	One Character per box. (A-Z, 0-9 / -)	MATRIX	CODE	DATE	TIME	COMPOSITE START	COMPOSITE END/GRAB			SAMPLE TEMP AT COLLECTION	# OF CONTAINERS
1	M W - 1 4		W	G	2/25/13	16:20			X	008		
2	M W - 1 5		W	G	2/25/13	16:50			X	009		
3	M W - 1 6		W	G	2/25/13	19:00			X	010		
4	M W - 1 7		W	G	2/25/13	17:50			X	011		
5	M W - 1 8		W	G	2/25/13	17:30			X	012		
6	M W - 1 9		W	G	2/25/13	16:00			X	013		
7	M W - 2 0		W	G	2/25/13	18:30			X	014		

Section E
RELINQUISHED BY / AFFILIATION
 DATE: 2/26/13
 TIME: 14:18
 SIGNATURE: Eric Gabrielson

Section F
ACCEPTED BY / AFFILIATION
 DATE: 2/26/13
 TIME: 14:18
 SIGNATURE: Eric Gabrielson

Section G
TEMPERATURE
 Received on Ice: Y/N
 Custody Sealed Cooler: Y/N
 Samples Intact: Y/N

Section H
SAMPLER NAME AND SIGNATURE
 PRINT Name of SAMPLER: Eric Gabrielson
 SIGNATURE of SAMPLER: [Signature]
 DATE Signed (MM / DD / YY): 2/26/13

Sample Condition Upon Receipt

Client Name: Landmark

Project #:

WO#: 10221058



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

Thermom. Used: B88A912167504 80512447 72337080 Type of Ice: Wet Blue None Samples on Ice, cooling process has begun

Cooler Temp Read (°C): 1.8 Cooler Temp Corrected (°C): 1.8 Biological Tissue Frozen? Yes No
 Temp should be above freezing to 6°C Correction Factor: True Date and Initials of Person Examining Contents: 2/26/13 sh

Comments:

Chain of Custody Present?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Chain of Custody Filled Out?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.
Chain of Custody Relinquished?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	3.
Sampler Name and/or Signature on COC?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.
Samples Arrived within Hold Time?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5.
Short Hold Time Analysis (<72 hr)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	6.
Rush Turn Around Time Requested?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	7.
Sufficient Volume?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	8.
Correct Containers Used?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.
-Pace Containers Used?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Containers Intact?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	10.
Filtered Volume Received for Dissolved Tests?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	11.
Sample Labels Match COC?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	12.
-Includes Date/Time/ID/Analysis Matrix: <u>WT</u>		
All containers needing acid/base preservation have been checked? Noncompliances are noted in 13. All containers needing preservation are found to be in compliance with EPA recommendation? (HNO ₃ , H ₂ SO ₄ , HCl<2; NaOH>12) Exceptions: VOA, Coliform, TOC, Oil and Grease, WI-DRO (water)	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	13. <input type="checkbox"/> HNO ₃ <input type="checkbox"/> H ₂ SO ₄ <input type="checkbox"/> NaOH <input type="checkbox"/> HCl
	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	Sample #
	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Initial when completed: <u>sh</u> Lot # of added preservative: _____
Headspace in VOA Vials (>6mm)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	14.
Trip Blank Present?	<input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	15. <u>2 WT TB</u>
Trip Blank Custody Seals Present?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Pace Trip Blank Lot # (if purchased): <u>012813-1</u>		

CLIENT NOTIFICATION/RESOLUTION

Field Data Required? Yes No

Person Contacted: _____ Date/Time: _____

Comments/Resolution: _____

Project Manager Review: [Signature]

Date: 2/26/13

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

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: 01/30/2013		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):		32		Air Stripper Influent Flow Rate (L/s):		0.090	
		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 (dimensionless)	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								
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								

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: 01/30/2013		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):		32	Air Stripper Influent Flow Rate (L/s):		0.090		
		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 (dimensionless)	AS Emission Rate (µg/sec)		
Propylene (methylene or propene)	115-07-1								
Styrene	100-42-5								
1,1,2,2-Tetrachloroethane	79-34-5								
Tetrachloroethylene (PCE)	127-18-4	348,000	5,256	26	0	1.00	2		
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	127,000	1,918						
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								

¹SCFM = 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).

²Provide stack exit velocity for actual exit conditions (i.e., at the actual temperature and pressure of the air being discharged).

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: 01/30/2013

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										4E-06
Tetrahydrofuran	109-99-9																

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: 01/30/2013

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		0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0		4.2E-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

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: 02/25/2013		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):		38		Air Stripper Influent Flow Rate (L/s):		0.189			
		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 (dimensionless)	AS Emission Rate (µg/sec)				
Acetone	67-64-1	48	1	60	0	1.00	11				
Benzene	71-43-2	18	0								
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	104	2								
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	105	2								
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	56	1								
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										

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: 02/25/2013		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):		38	Air Stripper Influent Flow Rate (L/s):		0.189		
		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 (dimensionless)	AS Emission Rate (µg/sec)		
Propylene (methylene or propene)	115-07-1								
Styrene	100-42-5								
1,1,2,2-Tetrachloroethane	79-34-5								
Tetrachloroethylene (PCE)	127-18-4	1,600	29	35	0	1.00	7		
Tetrahydrofuran	109-99-9								
Toluene (Methylbenzene)	108-88-3	55	1						
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	7,040	126						
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								

¹SCFM = 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).

²Provide stack exit velocity for actual exit conditions (i.e., at the actual temperature and pressure of the air being discharged).

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: 02/25/2013

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	0.0	0.0			0.0	0.0										
Benzene	71-43-2	0.0			0.0	0.0		0.0	0.0								1E-09
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					0.0						0.0					
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					0.0	0.0						0.0				
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		0.0	0.0										3E-08
Tetrahydrofuran	109-99-9																

MPCA Leak ID: MN BIO BUSINESS CENTER

Sample Date: 02/25/2013

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	0.0	0.0	0.0		0.0	0.0										
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		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.0E-08

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

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: 03/21/2013		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):		35		Air Stripper Influent Flow Rate (L/s):		0.037			
		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 (dimensionless)	AS Emission Rate (µg/sec)				
Acetone	67-64-1	71	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	85	1								
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	507	8								
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	89	1								
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	80	1								
Methyl-tert-butyl ether (MTBE)	1634-04-4										
Naphthalene	91-20-3										
2-Propanol (Isopropyl alcohol)	67-63-0	126	2								

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: 03/21/2013		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):		35	Air Stripper Influent Flow Rate (L/s):		0.037		
		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 (dimensionless)	AS Emission Rate (µg/sec)		
Propylene (methylene or propene)	115-07-1								
Styrene	100-42-5								
1,1,2,2-Tetrachloroethane	79-34-5								
Tetrachloroethylene (PCE)	127-18-4	17,500	289	32	0	1.00	1		
Tetrahydrofuran	109-99-9								
Toluene (Methylbenzene)	108-88-3	114	2						
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	33,300	550						
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								

¹SCFM = 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).

²Provide stack exit velocity for actual exit conditions (i.e., at the actual temperature and pressure of the air being discharged).

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: 03/21/2013

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	0.0	0.0			0.0	0.0									
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					0.0	0.0					0.0				
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	0.0	0.0			0.0	0.0	0.0								1E-09
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		0.0	0.0									2E-07
Tetrahydrofuran	109-99-9															

MPCA Leak ID: MN BIO BUSINESS CENTER

Sample Date: 03/21/2013

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	0.0	0.0	0.0		0.0	0.0										
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		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.3E-07

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