May 29, 2012

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

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

Dear Mr. Timm and Mr. Olson:

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

Introduction

This report documents the monthly DPE system operational and analytical data from the January 20, 2012 to April 17, 2012 monitoring events, as well as quarterly groundwater monitoring data from samples collected on February 16, 2012.

Until September 8, 2011, the DPE system operated sequentially at all of the DPE system wells after being switched from continuous operation at DPE-1 on October 15, 2009. During this time, the DPE system was programmed to operate on each well for 45 minutes before switching to the next well, a process which took6 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. 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 April 17, 2012, 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 71,800 ug/m^3, a decrease of 99.5 percent (See Figures 4A and 4B, and Tables 2 and 3). PCE concentrations decreased from 11,600,000 ug/m^3 to 20,600 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 April 17, 2012, sampling events decreased from the July 26, 2010, concentrations as shown in Figure 4B.

As a result of switching the DPE system to focus on DPE-1, DPE-2, DPE-3, and DPE-4 on September 8, 2011, the total VOC concentration increased from 8,866 ug/m^3 on August 28, 2011, to concentrations as high as 106,710 ug/m^3 on October 27, 2011, and 268,469 ug/m^3 on January 27, 2011. However, on April 17, 2012, the VOC concentrations have decreased to 71,800 ug/m^3. The PCE concentration increased from 0 ug/m^3 on August 28, 2011, to concentrations as high as 29,100 ug/m^3 on January 27, 2011. On April 17, 2012, the PCE concentration was 20,600 ug/m^3.

During this reporting period, the DPE system removed 38.18 pounds of total VOCs, including 4.27 pounds from PCE, from January 27, 2012, through April 17, 2012 (see Figure 5 and Table 2). Through April 17, 2012, the DPE system has removed a total of 3,459.18 pounds of total VOCs and 2,641.1 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 27, 2012, through April 17, 2012, 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 April 17, 2012 was 0.58 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 20 through April 17, 2012 (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 16, 2012. After approximately three years of DPE system operation, the PCE concentrations have decreased at all of the monitoring and DPE wells, except for DPE-7. However, the PCE concentration at DPE-7 has fluctuated from the initial concentration of 22.3 (ug/L) on December 10, 2008, to 189 ug/L on August 18, 2010, and to its current concentration of 27.8 ug/L on February 16, 2012 (see Figures 9A and 9B, and Table 9). The PCE concentration at DPE-7 is slightly above the Minnesota department of Health's Health Risk Limit (HRL) of 5 micrograms per liter (ug/L). 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 (87%), MW-18 (98.9%), MW-19 (8.3%), MW-20 (93%), DPE-1 (100.0%), DPE-2 (98.7%), DPE-3 (99.3%), DPE-4 (97.7%), DPE-5 (94.8%), and DPE-6 (76.2%). DPE-8 was not sampled during the February 16, 2012, monitoring event because the well was dry and would not generate any groundwater. Increased concentrations of PCE, when compared to the November 2011 groundwater data were observed at MW-20, DPE-4, DPE-5, DPE-6 and DPE-7. Figure 10 shows the iso-concentration contour map for PCE during the February 16, 2012, sampling event. The groundwater

analytical results are included in Table 10 and the groundwater analytical reports are included in Attachment B. Groundwater monitoring field data sheets are included in Attachment A.

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

Conclusions

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

- The DPE system is operating as designed and has removed a significant amount of VOCs since system startup in June 2009.
- Through April 17, 2012, the DPE system removed 3,459 pounds of total VOCs, including 2,641 pounds of PCE from the subsurface.
- When comparing the April 17, 2012, concentrations to the baseline emissions data from April 9, 2009, the total VOC and PCE concentrations have decreased 99.5 percent and 99.8 percent, respectively.
- The DPE system removed 38.18 pounds of total VOCs, including 4.27 pounds from PCE, from January 27, 2012, through April 17, 2012.
- An increase in total VOC and PCE concentrations and mass removal was observed as a result of switching the DPE system operational configuration on September 8, 2011, to focus on DPE-1, DPE-2, DPE-3, and DPE-4.
- During this reporting period, the site specific emissions rates for PCE were below the MPCA's PR Program acute and chronic emissions criteria.
- After switching the operational configuration on September 8, 2011, to focus DPE-1, DPE-2, DPE-3, and DPE-4, the groundwater elevations at all of the wells have been decreasing at a faster rate, 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 (87%), MW-18 (98.9%), MW-19 (8.3%), MW-20 (93%), DPE-1 (100.0%), DPE-2 (98.7%), DPE-3 (99.3%), DPE-4 (97.7%), DPE-5 (94.8%), and DPE-6 (76.2%).

Recommendations

Landmark recommends one more month of DPE system operation at DPE-1, DPE-2, DPE-3, and DPE-4 to see if the groundwater elevations on the Property continue to decrease at a faster rate, exposing

potential subsurface contamination closer to the bottom of the wells. After one more month of DPE system operation, Landmark recommends temporarily shutting down the DPE system for 30 to 60 days. The purpose for shutting down the DPE system is to 1.) conduct soil vapor sampling as outlined in the Soil Vapor Sampling Work Plan (Work Plan) submitted to the MPCA on May 2, 2012; and, 2.) to restart and resample the DPE system to evaluate potential rebound VOC concentrations in the DPE system emissions. The Work Plan requires the DPE system to be shut down for 30 days before soil vapor sampling activities can be completed. The DPE system operational 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 additional DPE system operation is required, the system will be cycled to alternate 30-day system operation periods, with 30-day shutdown periods for further evaluation of emissions rebound.

As discussed in the November 11, 2011, meeting between the MPCA, the City, and Landmark, only two more quarters of quarterly sampling were required by the MPCA. This quarterly report represents the final required quarterly report. Landmark recommends reducing the reporting frequency from quarterly to semiannual.

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.

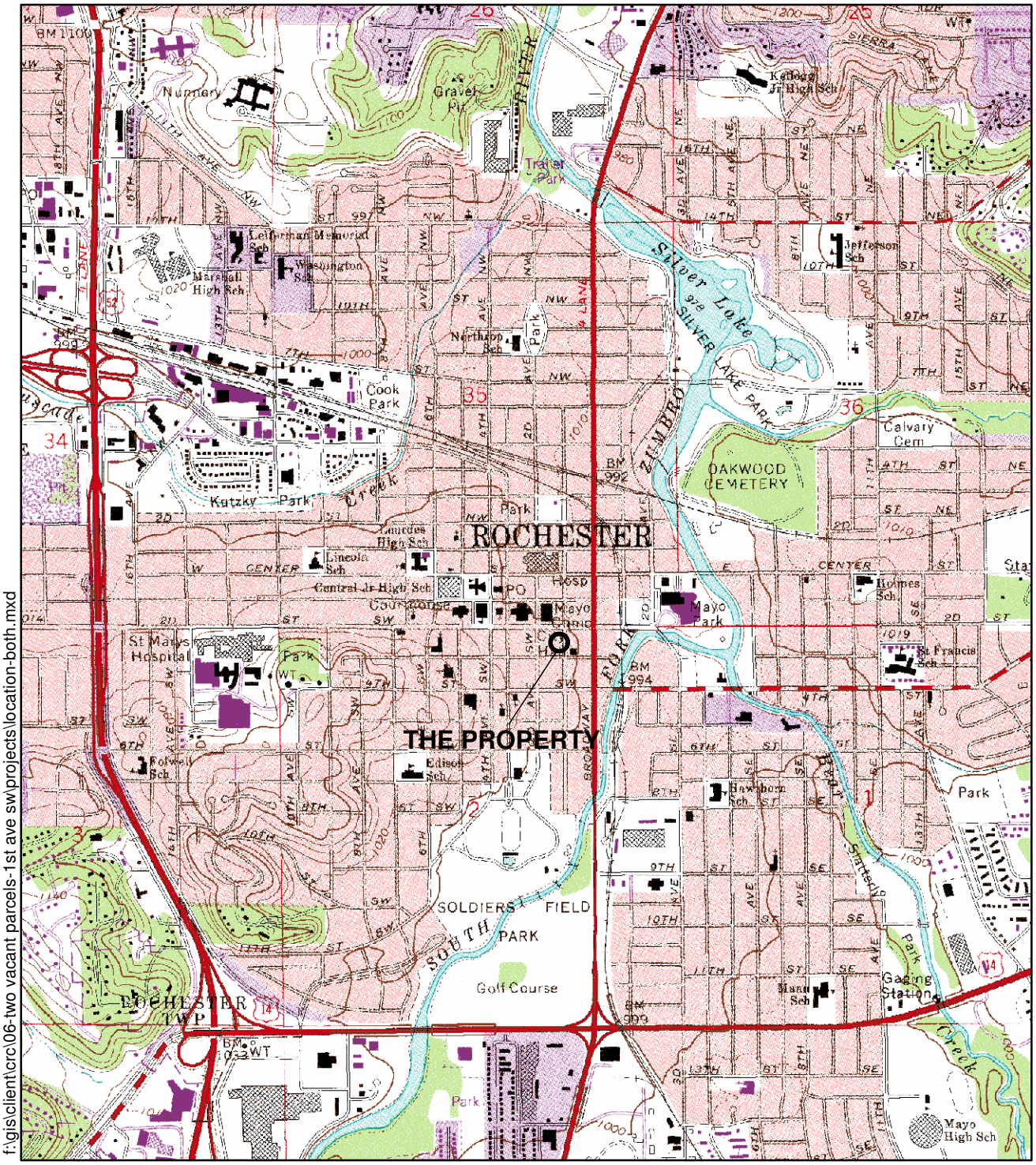
Sincerely,

Jason D. Skramstad, P.E.

Cc: Terry Spaeth, City of Rochester

F:\PROJECTS\Crc-City of Rochester\Monthly System Reports\20120524 DPE GW/20120529 DPE GW Quartery Report.doc

Figures



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

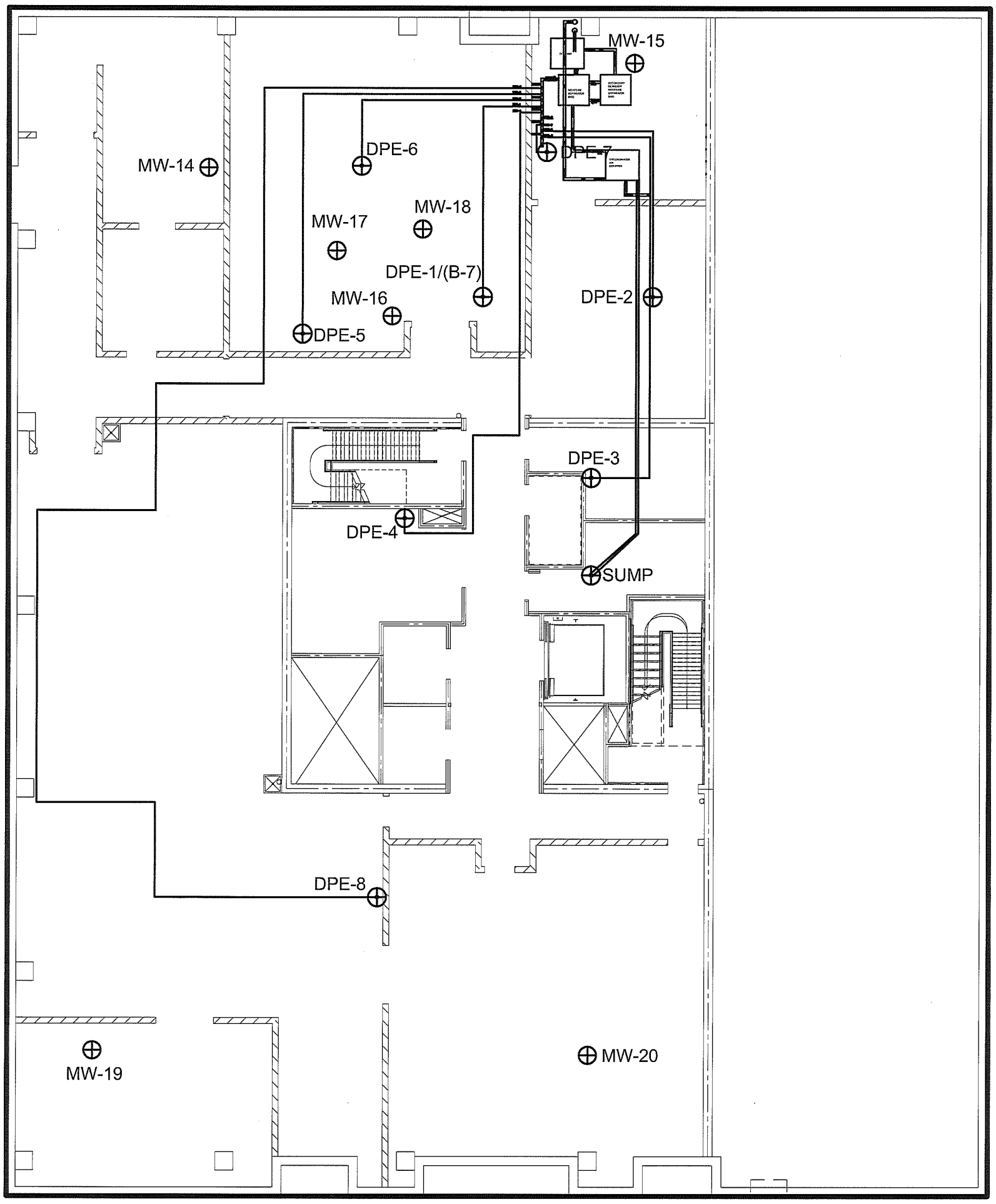
Source: Rochester, Minnesota Topographic Quadrangle, 7.5-Minute Series

N

2,000 1,000 0 2,000 Feet

FIGURE 1

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



BASEMENT FLOOR PLAN

LEGEND

⊕ DPE, Monitoring Well, or Sump Location

DPE Piping Location

Property Boundary

N

20 feet
SCALE

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

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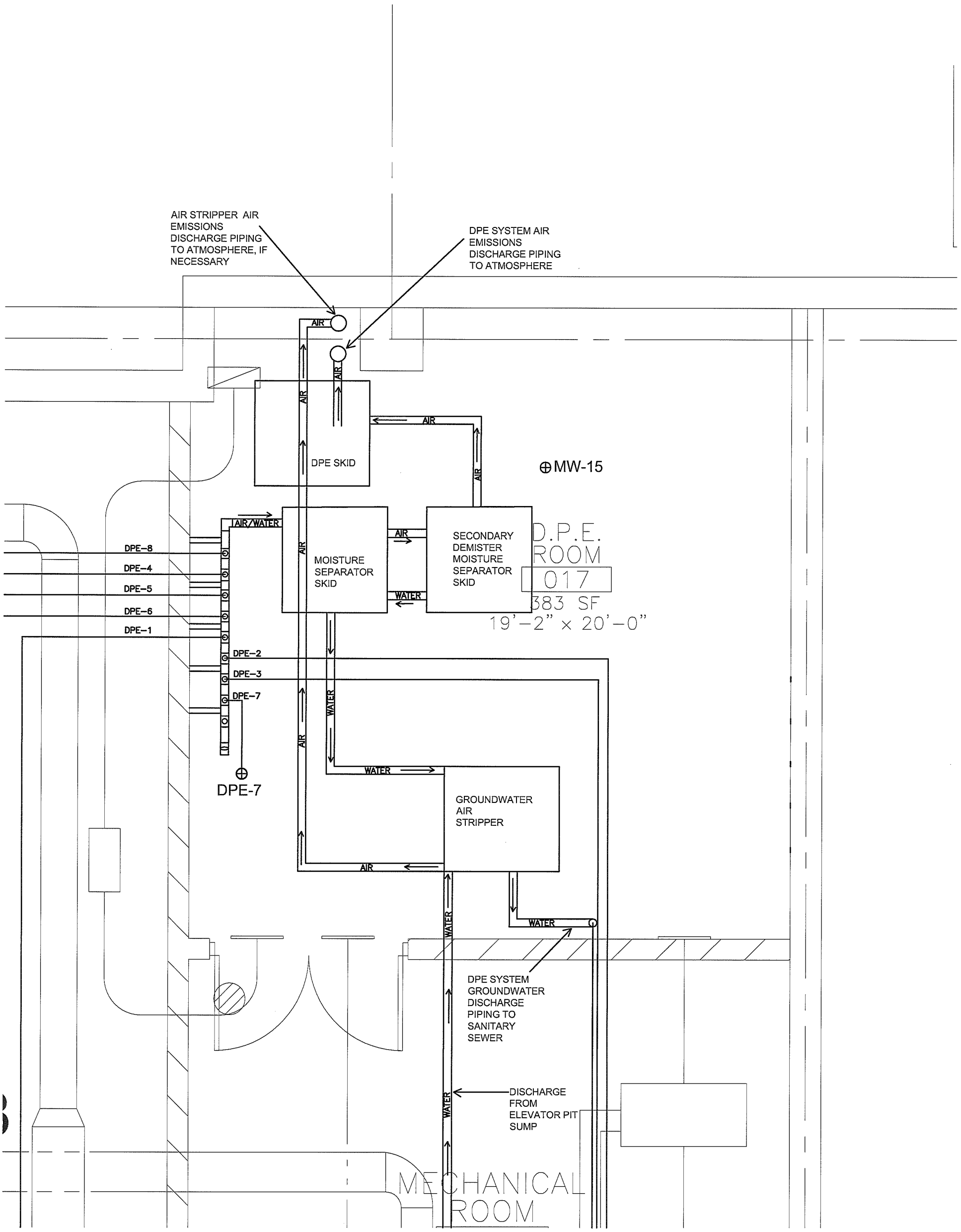
Bloomington, MN 55431

FIGURE 2

DPE SYSTEM LAYOUT

221 FIRST AVENUE S.W.
ROCHESTER, MINNESOTA

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



LEGEND

Existing DPE Piping Location

AIR — Proposed Air Emissions Piping Location

WATER — Proposed Groundwater Discharge Piping Location

N

1 in = 3 ft
APPROXIMATE SCALE

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

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FIGURE 3

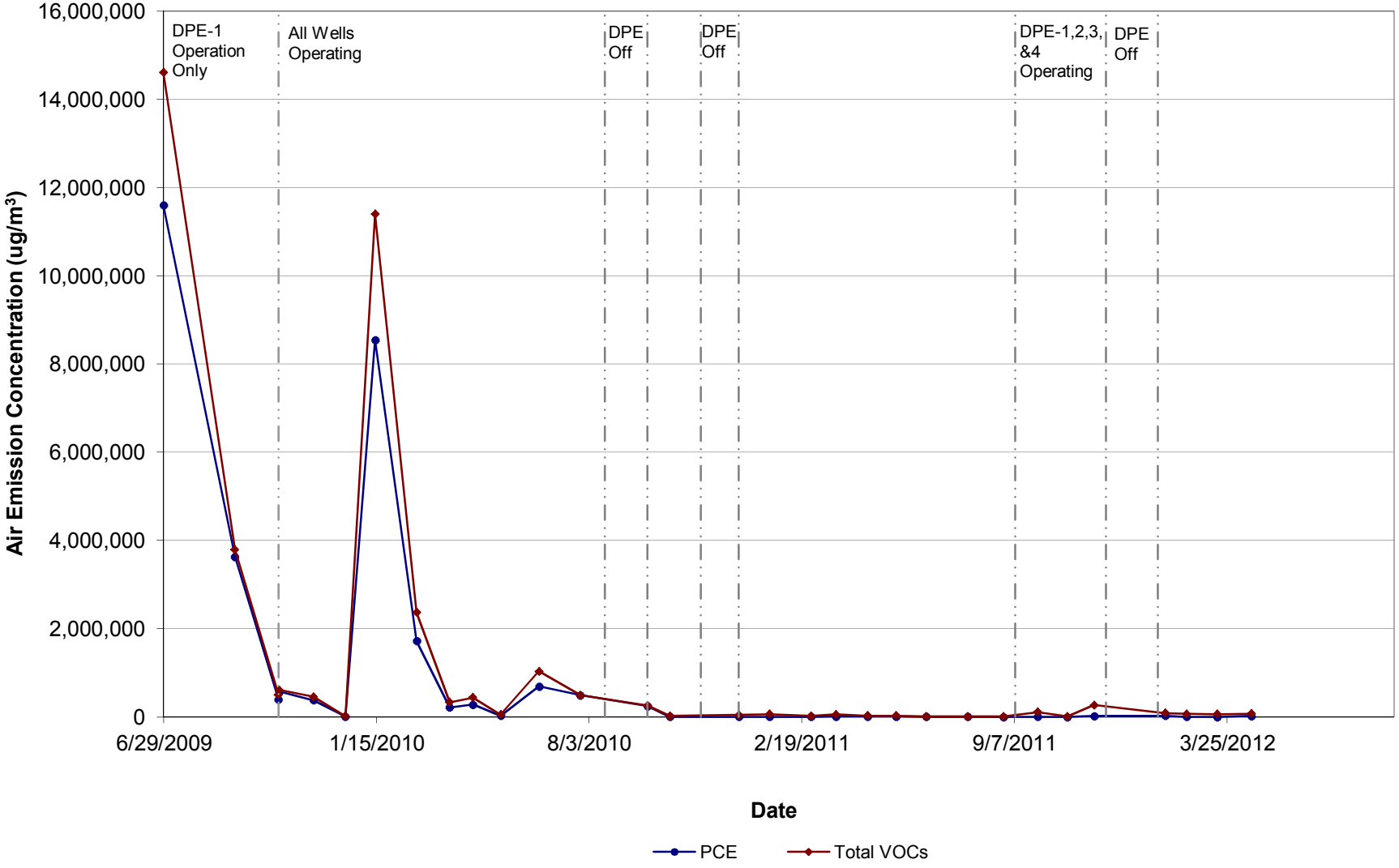
DPE ROOM LAYOUT

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



F:\PROJECTS\Crc-City of Rochester\data tables\system OM data

5/2/2012

FIGURE 4B

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

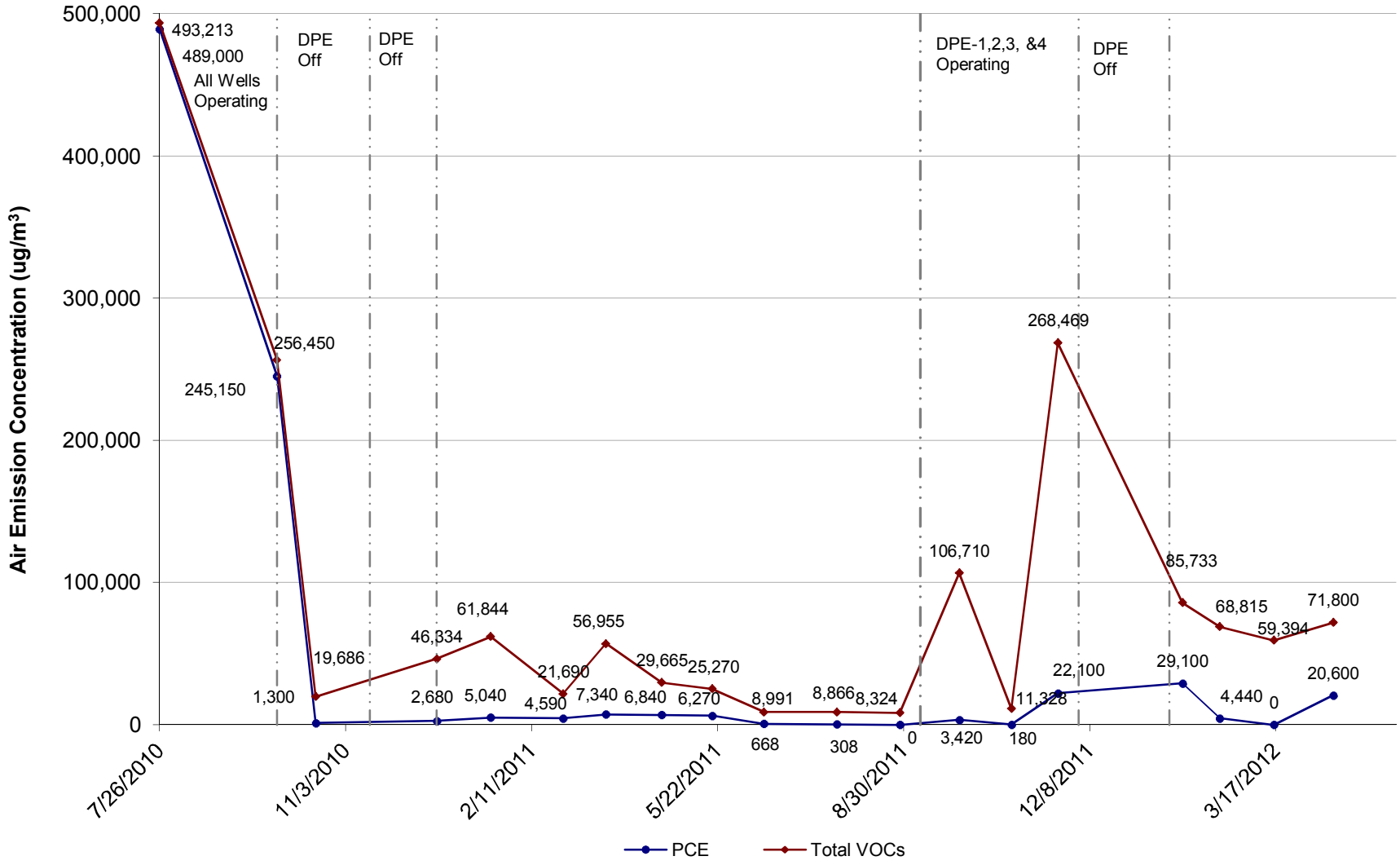


FIGURE 5

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

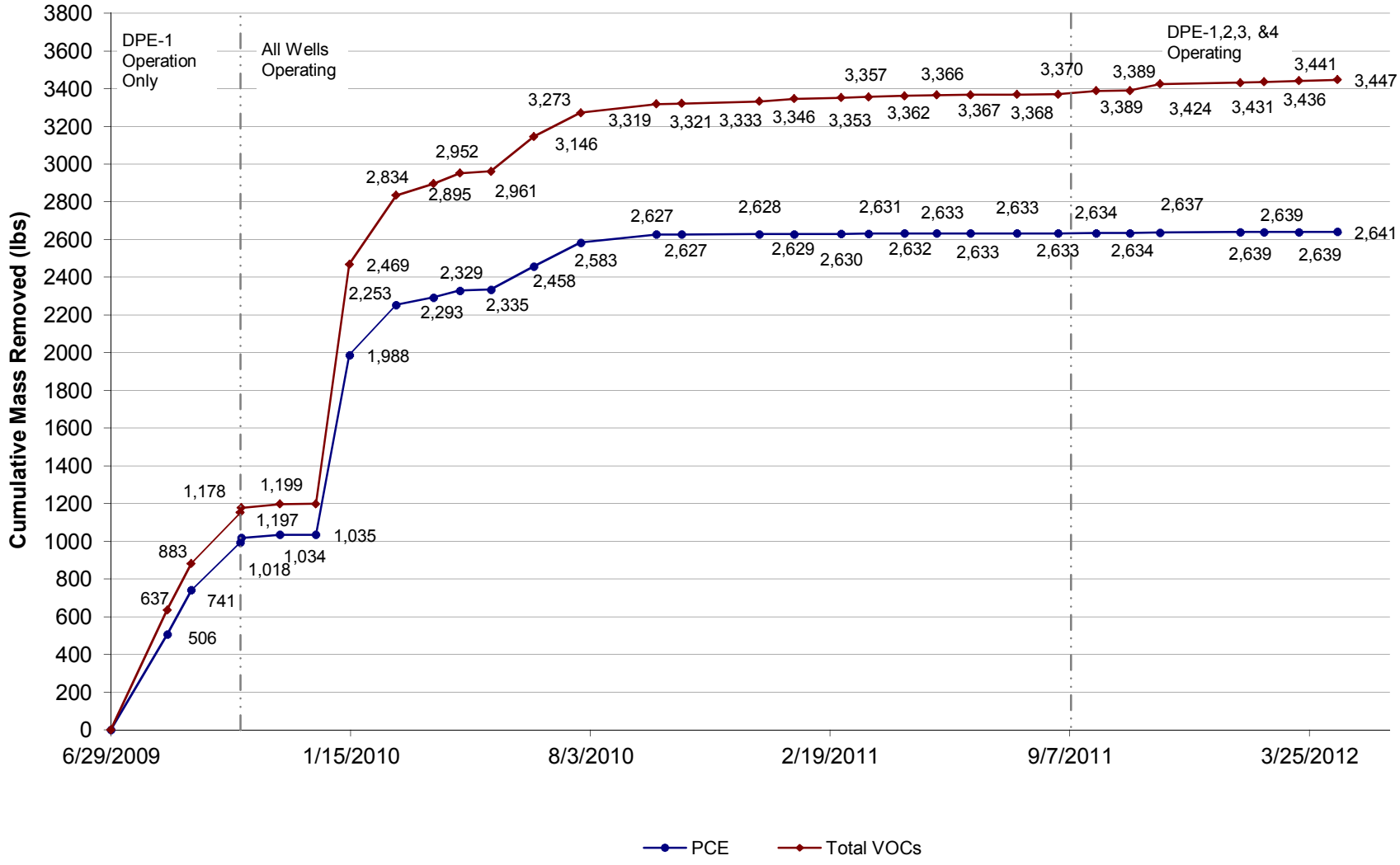


FIGURE 6

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

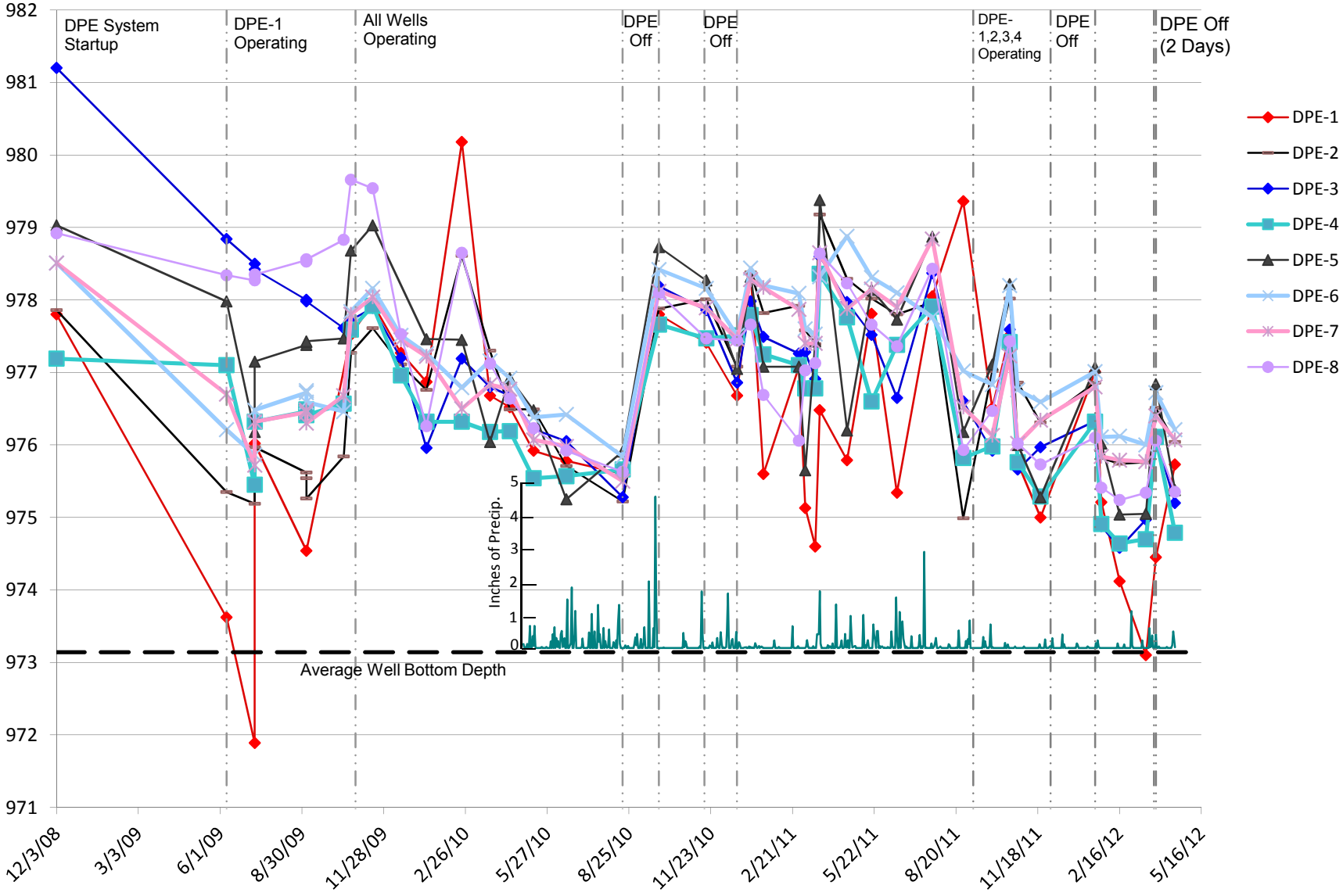
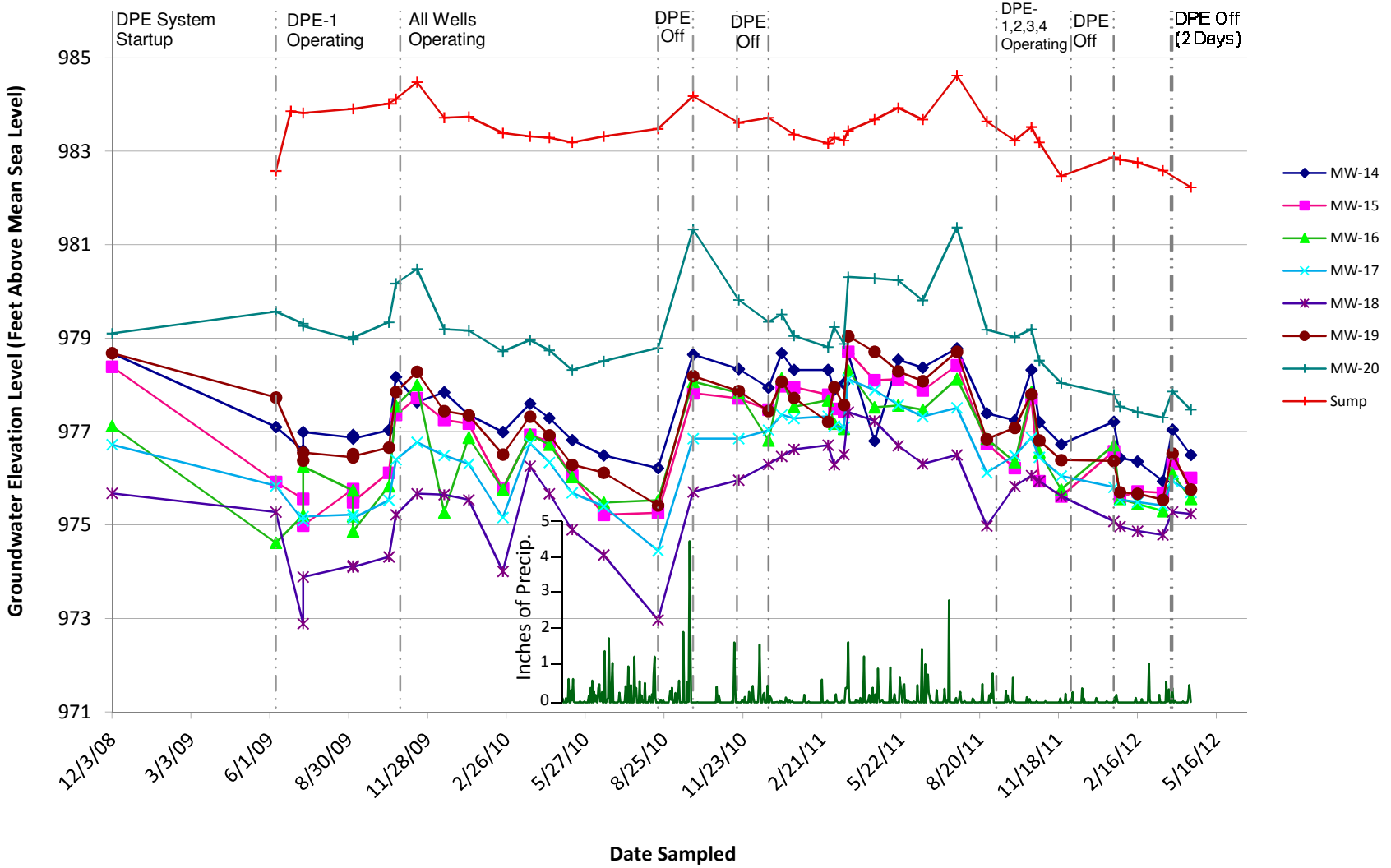
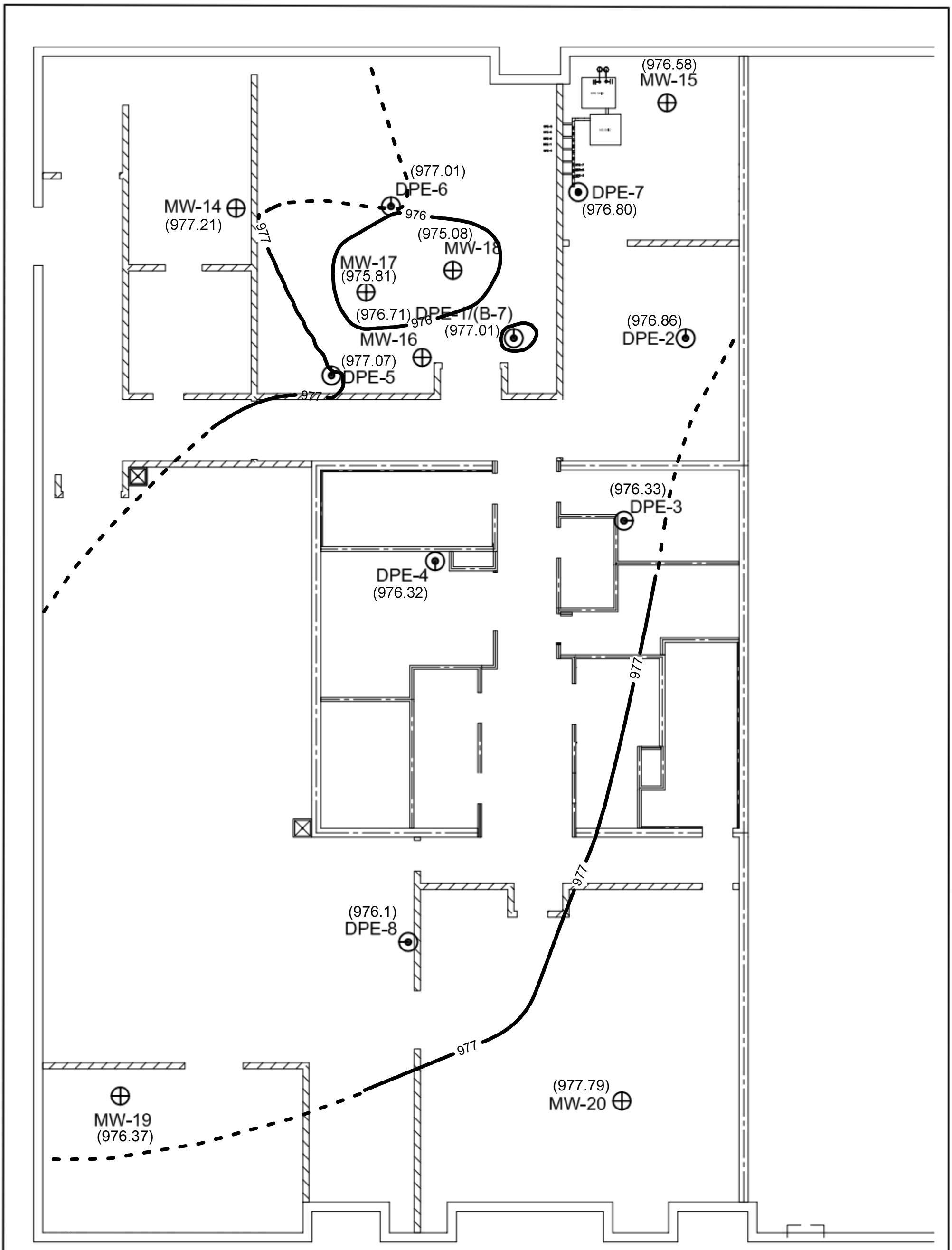


FIGURE 7

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





LEGEND

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

N

10 feet
SCALE

BASE DRAWING PROVIDED BY HGA

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FIGURE 8A
GROUNDWATER FLOW INTERPRETATION-JANUARY 20, 2012
221 FIRST AVENUE S.W.
ROCHESTER, MINNESOTA

Landmark Project Number: CRC			
Drawn: KAB	Checked: JDS	Designed: JDS	
Scale: .	Date: . 2/2/2012	Revision:	
Drawing Number: .	Sheet . Of .	Sheets .	

(975.59)
MW-15

(976.11)
DPE-6

976

DPE-7
(975.84)

MW-14
(976.44)

(974.97)
MW-18

MW-17
(975.54)

DPE-1/(B-7)
(975.21)

(975.56)
MW-16

(975.82)
DPE-2

976

(976.02)
DPE-5

975

(974.88)
DPE-3

DPE-4
(974.91)

975

976

976

(975.41)
DPE-8

976

977

(977.54)
MW-20

MW-19
(975.70)

LEGEND

⊙	DPE Well Location
⊕	Monitoring Well Location
(976.92)	Groundwater Elevation (feet above mean sea level)

N

10 feet
SCALE

BASE DRAWING PROVIDED BY HGA

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FIGURE 8B
GROUNDWATER FLOW INTERPRETATION-
JANUARY 27, 2012

221 FIRST AVENUE S.W.
ROCHESTER, MINNESOTA

Landmark Project Number: CRC		
Drawn: KAB	Checked: JDS	Designed: JDS
Scale: .	Date: . 2/2/2012	Revision:
Drawing Number: .	Sheet . Of .	Sheets .

(975.72)
MW-15

(976.12)
DPE-6

DPE-7
(975.79)

MW-14
(976.36)

(974.87)
MW-18

MW-17
(975.49)

(974.12)
DPE-1/(B-7)

(975.45)
MW-16

DPE-2
(975.74)

(975.04)
DPE-5

(974.58)
DPE-3

DPE-4
(974.64)

DPE-8
(DRY)

MW-19
(975.67)

MW-20
(977.42)

976
975
977

LEGEND

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

N

10 feet
SCALE

BASE DRAWING PROVIDED BY HGA

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FIGURE 8C
GROUNDWATER FLOW INTERPRETATION-
February 16, 2012
221 FIRST AVENUE S.W.
ROCHESTER, MINNESOTA

Landmark Project Number: CRC			
Drawn: KAB	Checked: JDS	Designed: JDS	
Scale: .	Date: . 2/21/2012	Revision:	
Drawing Number: .	Sheet . Of .	Sheets .	

(975.69)
MW-15

976

976

976

DPE-6
(976.00)

DPE-7
(975.77)

MW-14
(975.94)

(974.97)
MW-18

MW-17
(975.42)

975

974

(975.30)
MW-16

DPE-1/(B-7)
(973.1)

DPE-2
(975.76)

(975.05)
DPE-5

975

974

974

975

DPE-3
(974.97)

975

DPE-4
(974.70)

975

976

(975.34)
DPE-8

976

977

MW-19
(975.54)

MW-20
(977.30)

LEGEND

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

N

10 feet
SCALE

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FIGURE 8D
GROUNDWATER FLOW INTERPRETATION-MARCH 16, 2012
221 FIRST AVENUE S.W.
ROCHESTER, MINNESOTA

Landmark Project Number: CRC			
Drawn: KAB	Checked: JDS	Designed: JDS	
Scale: .	Date: . 3/20/2012	Revision:	
Drawing Number: .	Sheet . Of .	Sheets .	

(976.31)
MW-15

MW-14
(977.04)

DPE-6
(976.72)

DPE-7
(976.40)

(975.94)
MW-17

MW-18
(975.28)

(976.10)
MW-16

DPE-1/(B-7)
(974.45)

DPE-2
(976.51)

(976.84)
DPE-5

DPE-3
(976.10)

DPE-4
(976.11)

(976.06)
DPE-8

MW-19
(976.53)

MW-20
(977.86)

977
976
975

LEGEND

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

N

10 feet
SCALE

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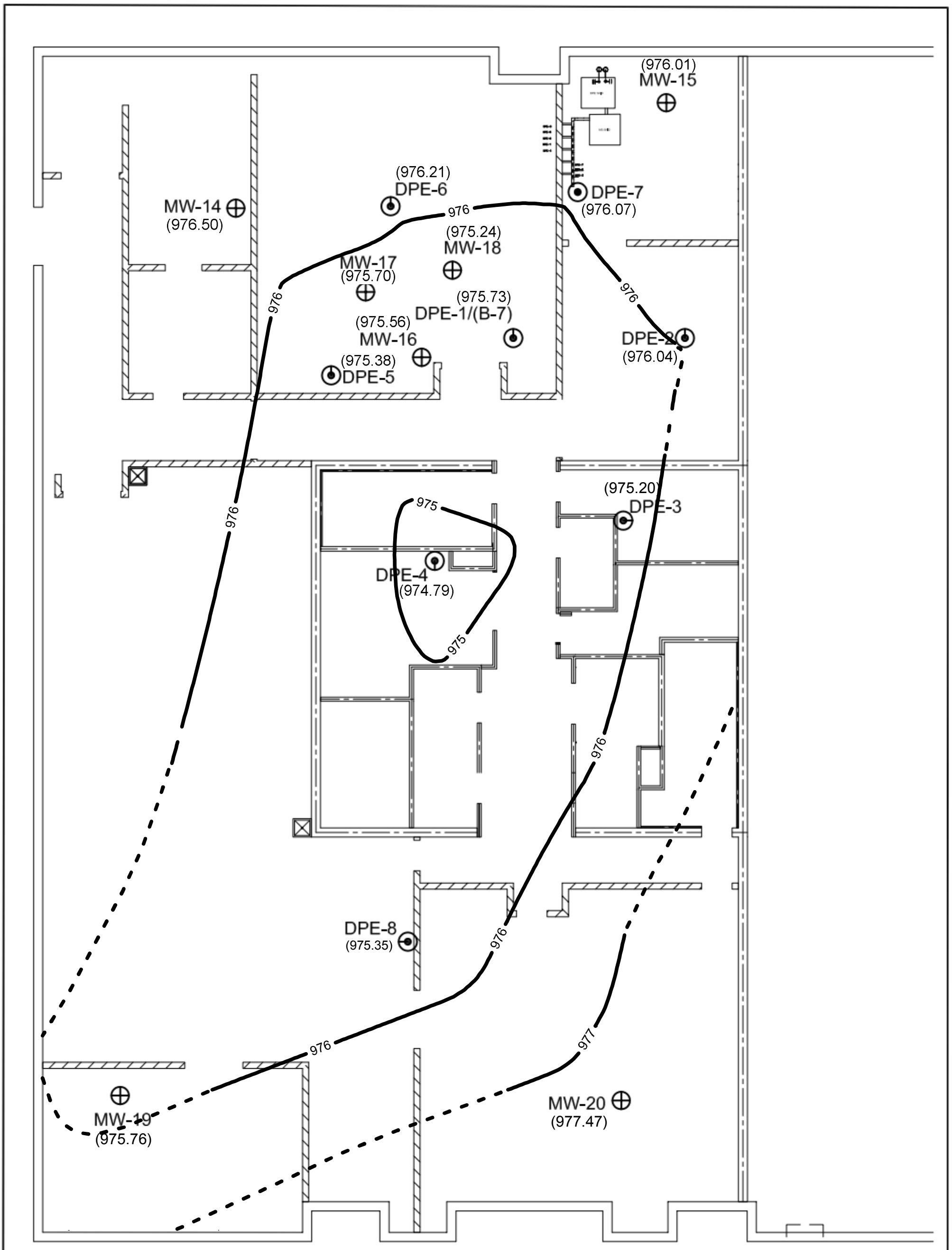
FIGURE 8E
GROUNDWATER FLOW INTERPRETATION-
MARCH 27, 2012

221 FIRST AVENUE S.W.
ROCHESTER, MINNESOTA

Landmark Project Number: CRC			
Drawn: KAB	Checked: JDS	Designed: JDS	
Scale: .	Date: . 3/28/2012	Revision:	
Drawing Number: .	Sheet . Of .	Sheets .	



LEGEND

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

N

10 feet
SCALE

BASE DRAWING PROVIDED BY HGA

Rev	Date	By	Description

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FIGURE 8F
GROUNDWATER FLOW INTERPRETATION-
April 17, 2012
221 FIRST AVENUE S.W.
ROCHESTER, MINNESOTA

Landmark Project Number: CRC			
Drawn: KAB	Checked: JDS	Designed: JDS	
Scale: .	Date: . 4/20/2012	Revision:	
Drawing Number: .	Sheet . Of .	Sheets .	

FIGURE 9A

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

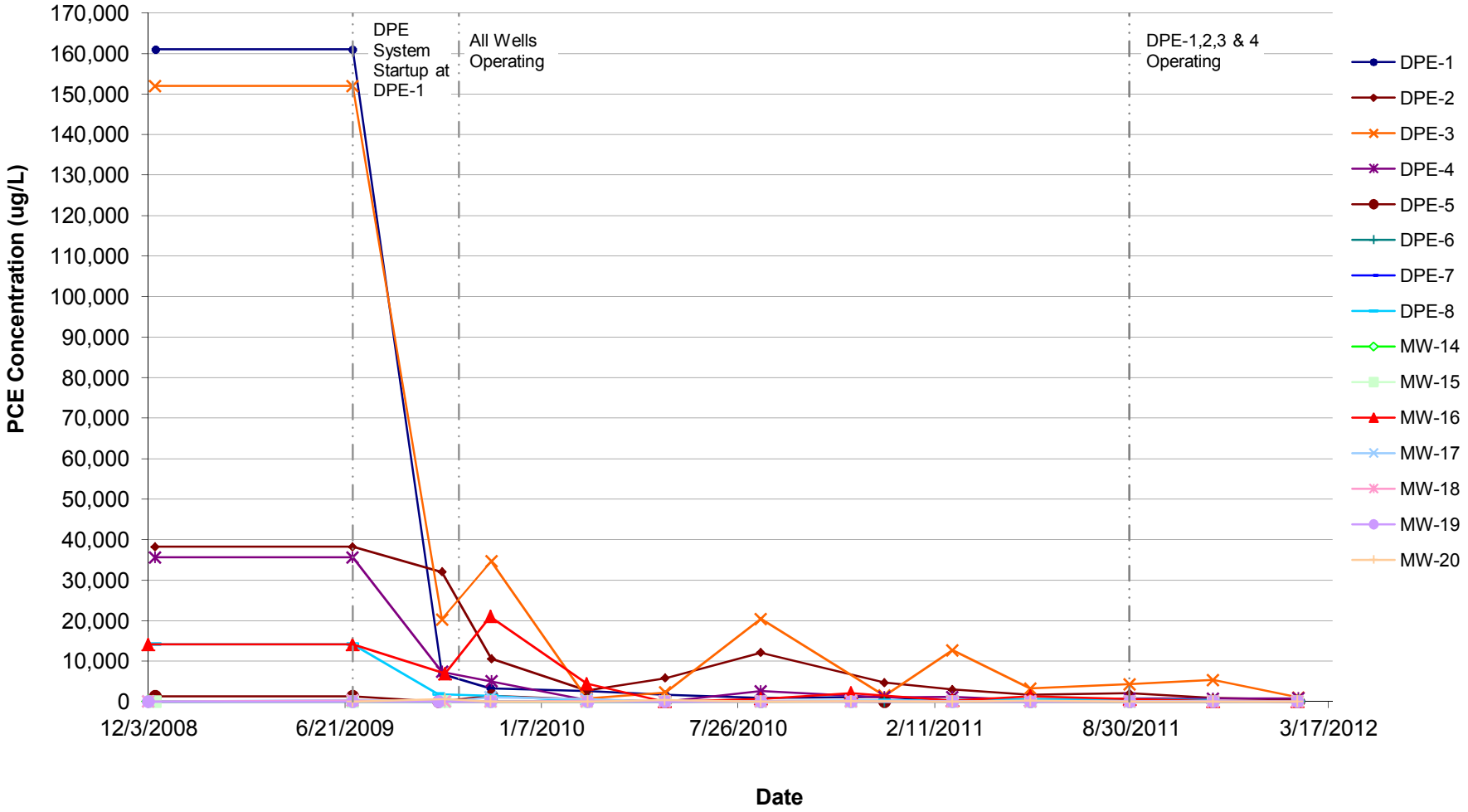
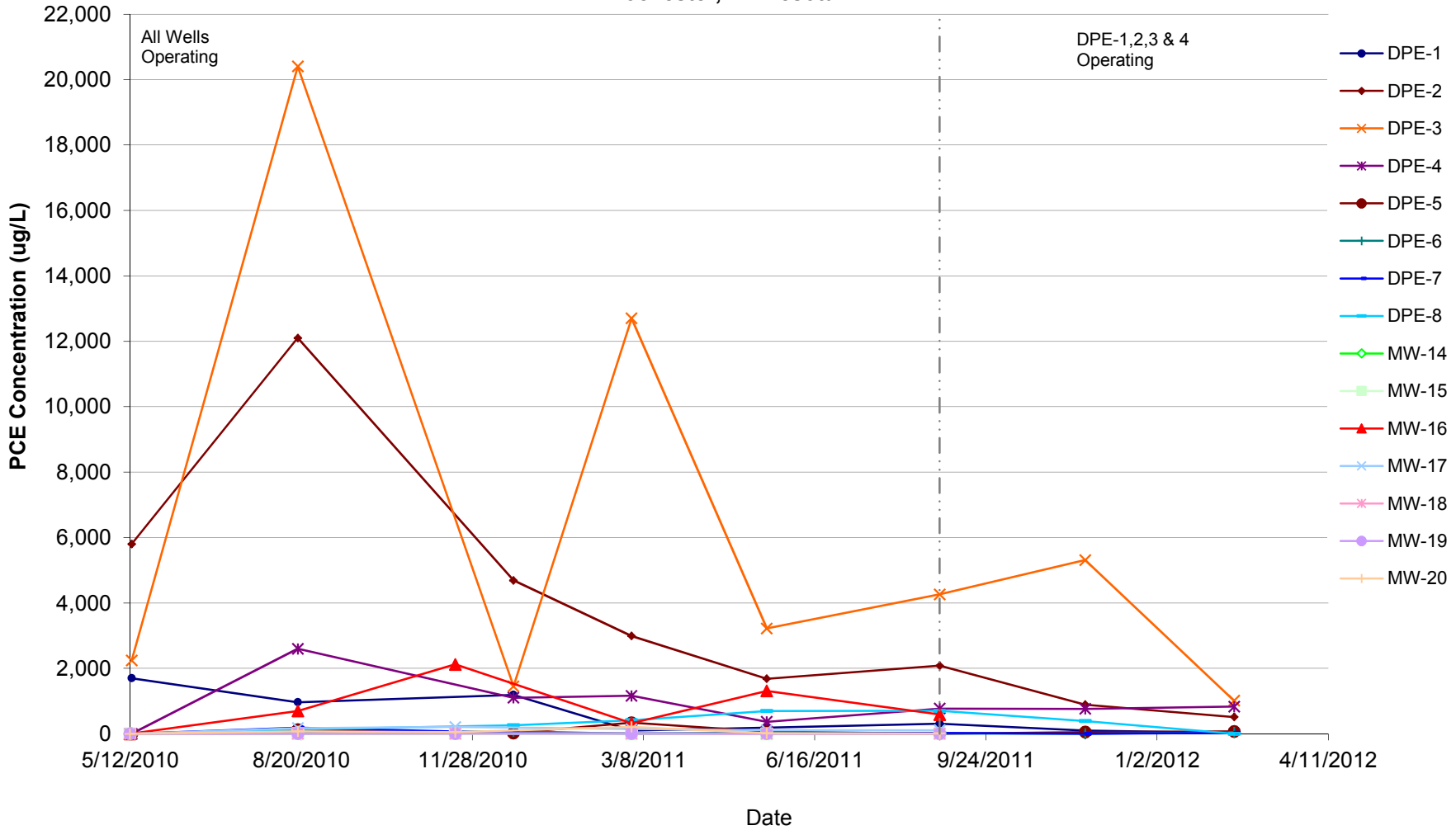
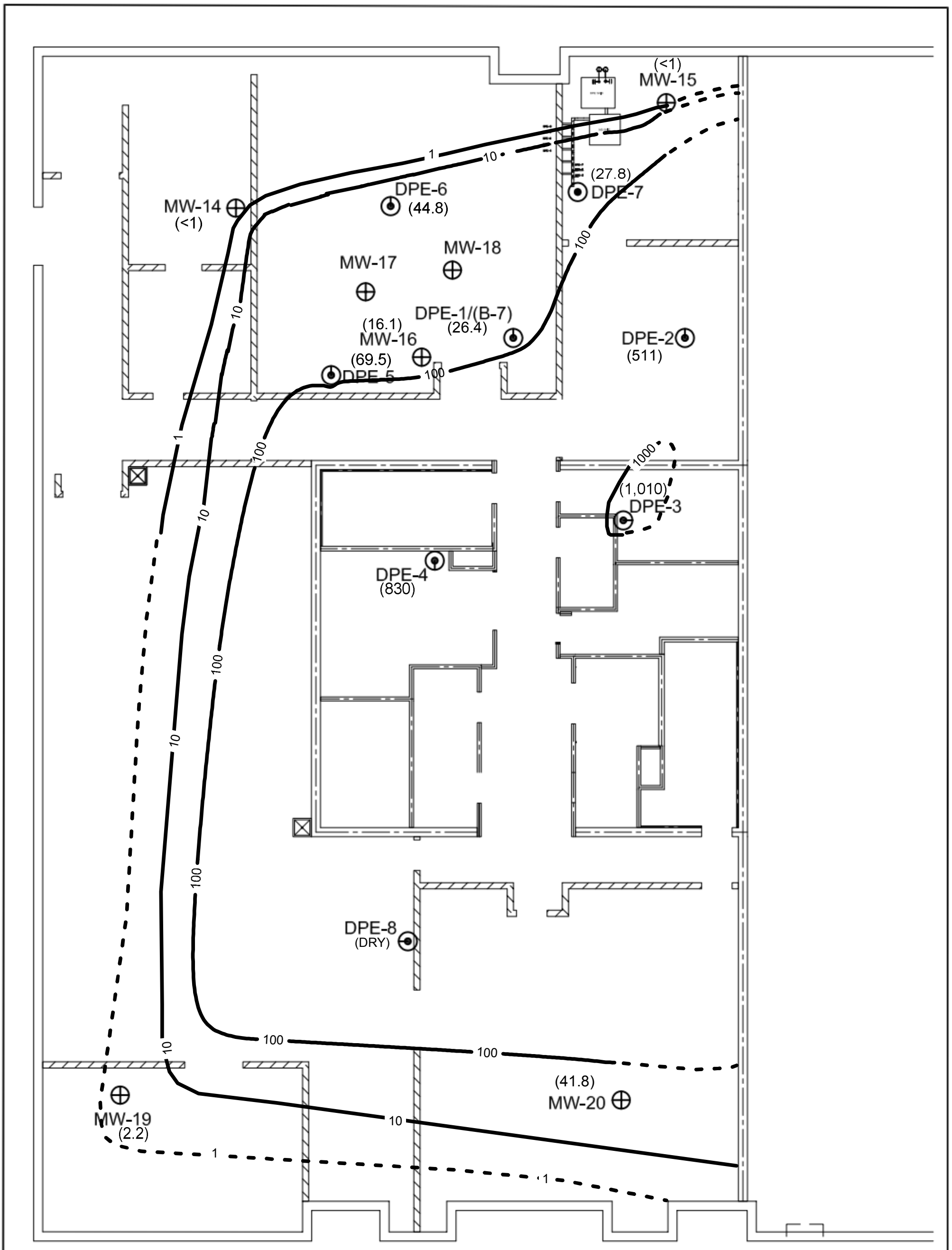


FIGURE 9B

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





LEGEND

- ⊙ DPE Well 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.

N

10 feet
SCALE

BASE DRAWING PROVIDED BY HGA

Rev	Date	By	Description

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

Landmark Project Number: CRC			
Drawn: KAB	Checked: JDS	Designed: JDS	
Scale: .	Date: . 2/29/2012	Revision:	
Drawing Number: .	Sheet . Of .	Sheets .	

Tables

TABLE 1

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

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

TABLE 1

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

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

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

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

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

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

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

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

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

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
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.

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

TABLE 2

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

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

Notes:

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

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**

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

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
1,1,2,2-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**

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

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
Tetrachloroethene	**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**

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

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**

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

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**

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

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**

1. Flow Controller failed on 9/27/10; however, a 1/2 hour composite sample was still collected.
Bold: Parameter detected above the reporting limit.
NA: Not analyzed

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

Notes:
SERs: MPCA Screening Emissions Rates
61,780 Emissions rate is above MPCA SER
NA: Not Applicable

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

Notes:

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

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	4/17/2012	4/17/2012	3/16/2012	3/16/2012	2/16/2012	2/16/2012	1/27/2012	1/27/2012
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	1.2	<1.0	<1.0	<1.0	<1.0	<1.0
1,1-Dichloroethane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1-Dichloroethene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1-Dichloropropene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2,3-Trichlorobenzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2,3-Trichloropropane	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
1,2,4-Trichlorobenzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2,4-Trimethylbenzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-Dibromo-3-chloropropane	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
1,2-Dibromoethane (EDB)	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-Dichlorobenzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-Dichloroethane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-Dichloropropane	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
1,3,5-Trimethylbenzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,3-Dichlorobenzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,3-Dichloropropane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,4-Dichlorobenzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
2,2-Dichloropropane	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
2-Butanone (MEK)	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
2-Chloroethylvinyl ether	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
2-Chlorotoluene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
2-Hexanone	<4.0	<4.0	NA	NA	<4.0	<4.0	<4.0	<4.0
2-Methylnaphthalene	<5.0	<5.0	NA	NA	<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	NA	NA	<10.0	<10.0	<10.0	<10.0
Acrylonitrile	<10.0	<10.0	NA	NA	<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	NA	NA	<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	<4.0	<4.0	<4.0	<4.0	<4.0
Chloroprene	<1.0	<1.0	NA	NA	<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	NA	NA	<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	<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	**39.6**	<1.0	**86.5**	<1.0	**51.8**	<1.0	**76.3**	<1.0
Tetrahydrofuran	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
Toluene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
trans-1,2-Dichloroethene	<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	<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	**39.6**	**0**	**91.7**	**0**	**51.8**	**0**	**76.3**	**0**

Bold : Parameter detected above the reporting limit.

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

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

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

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

TABLE 6

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

Sample ID	AS-Influent	AS-Effluent	AS-Influent	AS-Effluent	AS-Influent	AS-Effluent	AS-Influent	AS-Effluent
Collected Date	1/20/2012	1/20/2012	11/21/2011	11/21/2011	10/27/2011	10/27/2011	9/29/2011	9/29/2011
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	**2.9**	**6.4**	<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)	**8.8**	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	**6.5**
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	**9.4**	**7.8**	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Chloroprene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
cis-1,2-Dichloroethene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
cis-1,3-Dichloropropene	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Dibromochloromethane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Dibromomethane	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Dichlorodifluoromethane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Dichlorofluoromethane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Diethyl ether (Ethyl ether)	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Ethylbenzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Hexachloro-1,3-butadiene	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Iodomethane	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Isopropylbenzene (Cumene)	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
m&p-Xylene	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Methylene Chloride	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<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	**149**	**45.1**	**31.6**	<1.0	**40.3**	<1.0	**45.1**	<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	<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	**149**	**45.1**	**31.6**	**0**	**40.3**	**0**	**45.1**	**6.5**

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	8/28/2011	8/28/2011	7/25/2011	7/25/2011	6/16/2011	6/16/2011	5/19/2011	5/19/2011
1,1,1,2-Tetrachloroethane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1,1-Trichloroethane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1,2,2-Tetrachloroethane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1,2-Trichloroethane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1,2-Trichlorotrifluoroethane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1-Dichloroethane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1-Dichloroethene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1-Dichloropropene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2,3-Trichlorobenzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2,3-Trichloropropane	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
1,2,4-Trichlorobenzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2,4-Trimethylbenzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-Dibromo-3-chloropropane	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
1,2-Dibromoethane (EDB)	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-Dichlorobenzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-Dichloroethane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-Dichloropropane	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
1,3,5-Trimethylbenzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,3-Dichlorobenzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,3-Dichloropropane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,4-Dichlorobenzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
2,2-Dichloropropane	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
2-Butanone (MEK)	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
2-Chloroethylvinyl ether	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
2-Chlorotoluene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
2-Hexanone	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
2-Methylnaphthalene	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
4-Chlorotoluene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
4-Methyl-2-pentanone (MIBK)	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Acetone	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
Acrolein	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
Acrylonitrile	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
Allyl chloride	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Benzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Bromobenzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Bromochloromethane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Bromodichloromethane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Bromoform	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Bromomethane	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Carbon disulfide	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Carbon tetrachloride	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Chlorobenzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Chloroethane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Chloroform	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Chloromethane	<4.0	**4.9**	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Chloroprene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
cis-1,2-Dichloroethene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
cis-1,3-Dichloropropene	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Dibromochloromethane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Dibromomethane	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Dichlorodifluoromethane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Dichlorofluoromethane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Diethyl ether (Ethyl ether)	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Ethylbenzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Hexachloro-1,3-butadiene	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Iodomethane	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Isopropylbenzene (Cumene)	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
m&p-Xylene	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Methylene Chloride	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Methyl-tert-butyl ether	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Naphthalene	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
n-Butylbenzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
n-Propylbenzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
o-Xylene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
p-Isopropyltoluene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
sec-Butylbenzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Styrene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
tert-Butylbenzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Tetrachloroethene	**50.7**	<1.0	**37.0**	<1.0	**42.8**	<1.0	**21.8**	<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	**50.7**	**4.9**	**37**	**0**	**42.8**	**0**	**21.8**	**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	4/22/2011	4/22/2011	3/23/2011	3/23/2011	3/1/2011	3/1/2011	1/20/2011	1/20/2011
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	**2.3**	<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	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2,4-Trichlorobenzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2,4-Trimethylbenzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-Dibromo-3-chloropropane	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
1,2-Dibromoethane (EDB)	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-Dichlorobenzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-Dichloroethane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-Dichloropropane	<4.0	<4.0	<4.0	<4.0	<1.0	<1.0	<1.0	<1.0
1,3,5-Trimethylbenzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,3-Dichlorobenzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,3-Dichloropropane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,4-Dichlorobenzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
2,2-Dichloropropane	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
2-Butanone (MEK)	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
2-Chloroethylvinyl ether	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
2-Chlorotoluene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
2-Hexanone	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
2-Methylnaphthalene	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
4-Chlorotoluene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
4-Methyl-2-pentanone (MIBK)	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Acetone	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<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	<8.0	<8.0	<8.0	<8.0
Bromomethane	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Carbon disulfide	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Carbon tetrachloride	<1.0	<1.0	<1.0	<1.0	<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	**35.0**	<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	**1.3**	<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	<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	**6.8**	<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	**41.3**	<1.0	**7.6**	<1.0	**127**	<1.0	**51.8**	<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	<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	<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	**41.3**	**0**	**42.6**	**6.8**	**130.6**	**0**	**51.8**	**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	12/23/2010	12/23/2010	10/19/2010	10/19/2010	7/26/2010	7/26/2010	6/17/2010	6/17/2010
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	<4.0	<4.0	<4.0	<4.0
1,1,2-Trichlorotrifluoroethane	**3.0**	<1.0	**1.9**	<1.0	<1.0	<1.0	**2.6**	<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	**4.5**	**5.6**	<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	<5.0	<5.0	<5.0	<5.0
Acetone	<10.0	**11.1**	<10.0	<10.0	<10.0	<10.0	<10.0	**13.3**
Acrolein	<10.0	<10.0	<10.0	<10.0	<40.0	<40.0	<40.0	<40.0
Acrylonitrile	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
Allyl chloride	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Benzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Bromobenzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Bromochloromethane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Bromodichloromethane	<1.0	<1.0	<1.0	<1.0	<4.0	<4.0	<4.0	<4.0
Bromoform	<8.0	<8.0	<8.0	<8.0	<8.0	<8.0	<8.0	<8.0
Bromomethane	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Carbon disulfide	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Carbon tetrachloride	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Chlorobenzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Chloroethane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Chloroform	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Chloromethane	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	**7.2**	**8.7**
Chloroprene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
cis-1,2-Dichloroethene	**1.8**	<1.0	<1.0	<1.0	<1.0	<1.0	**1.5**	<1.0
cis-1,3-Dichloropropene	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Dibromochloromethane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Dibromomethane	<4.0	<4.0	<4.0	<4.0	<1.0	<1.0	<1.0	<1.0
Dichlorodifluoromethane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Dichlorofluoromethane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Diethyl ether (Ethyl ether)	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Ethylbenzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Hexachloro-1,3-butadiene	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Iodomethane	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Isopropylbenzene (Cumene)	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
m&p-Xylene	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Methylene Chloride	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Methyl-tert-butyl ether	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Naphthalene	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
n-Butylbenzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
n-Propylbenzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
o-Xylene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
p-Isopropyltoluene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
sec-Butylbenzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Styrene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
tert-Butylbenzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Tetrachloroethene	**168**	<1.0	**204**	<1.0	<1.0	**40.6**	**108**	**2.4**
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	<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	**172.8**	**11.1**	**210.4**	**5.6**	**0**	**40.6**	**119.3**	**15.7**

Bold : Parameter detected above the reporting limit.

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

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

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

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

TABLE 6

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

Sample ID	AS-Influent	AS-Effluent	AS-Influent	AS-Effluent[3]	AS-Influent	AS-Effluent[3]	AS-Influent	AS-Effluent
Collected Date	5/12/2010	5/12/2010	4/16/2010	4/16/2010	3/25/2010	3/25/2010	2/22/2010	2/22/2010
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	**2.5**	<1.0	**1.4**	<1.0	**1.0**	<1.0	**2.1**	<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	**4.9**	**4.9**	**7.5**	<4.0	<4.0
2-Chloroethylvinyl ether	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
2-Chlorotoluene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
2-Hexanone	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
2-Methylnaphthalene	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
4-Chlorotoluene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
4-Methyl-2-pentanone (MIBK)	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Acetone	<10.0	<10.0	<10.0	**29.3**	**11.2**	**29.8**	<10.0	<10.0
Acrolein	<40.0	<40.0	<40.0	<40.0	<40.0	<40.0	<40.0	<40.0
Acrylonitrile	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
Allyl chloride	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Benzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Bromobenzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Bromochloromethane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Bromodichloromethane	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Bromoform	<8.0	<8.0	<8.0	<8.0	<8.0	<8.0	<8.0	<8.0
Bromomethane	<4.0	<4.0	<4.0	<4.0	**37.3**	**38.0**	<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	**10.7**	**491**	**380**	**644**	<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	**1.3**	<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	**17.3**	**18.9**	<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	**3.4**	<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	**1.6**	<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	**63.4**	<1.0	**48.6**	<1.0	**55.5**	<1.0	**69.6**	<1.0
Tetrahydrofuran	<10.0	<10.0	<10.0	<10.0	<10.0	**20.3**	<10.0	**15.7**
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	**4.9**	<3.0	<3.0
Total VOC Concentration	**65.9**	**0**	**60.7**	**525.2**	**507.2**	**763.5**	**73**	**15.7**

Bold : Parameter detected above the reporting limit.

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

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

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

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

TABLE 6

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

Sample ID	AS-Influent	AS-Effluent	AS-Influent	AS-IN Vial 2	AS-Effluent	AS-INFLUENT[1]	AS-EFFLUENT	AS-Influent	AS-Effluent
Collected Date	1/14/2010	1/14/2010	12/17/2009	12/17/2009	12/17/2009	11/16/2009	11/16/2009	10/15/2009	10/15/2009
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	**1.3**	<1.0	<1.0	<1.0	<1.0	<1.0	<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	<1.0
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	<1.0	<1.0	<1.0	<1.0	<1.0	<4.0	<4.0	<4.0	<4.0
2-Butanone (MEK)	**7.0**	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	**5.4**	<4.0
2-Chloroethylvinyl ether	<25.0	<25.0	<25.0	<25.0	<25.0	<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	<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	**14.6**	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
Acrolein	<40.0	<40.0	<40.0	<40.0	<40.0	<40.0	<40.0	<40.0	<40.0
Acrylonitrile	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
Allyl chloride	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Benzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Bromobenzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Bromochloromethane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Bromodichloromethane	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Bromoform	<8.0	<8.0	<8.0	<8.0	<8.0	<8.0	<8.0	<8.0	<8.0
Bromomethane	<4.0	<4.0	<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	<1.0	<1.0	<1.0	<1.0	<1.0	<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	<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	**98.5**	**31.9**	<1.0	<1.0	**1.3**	<4.0	<4.0	<1.0	<1.0
Chloroprene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
cis-1,2-Dichloroethene	**1.0**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	**1.5**	<1.0
cis-1,3-Dichloropropene	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Dibromochloromethane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Dibromomethane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Dichlorodifluoromethane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Dichlorofluoromethane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Diethyl ether (Ethyl ether)	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Ethylbenzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Hexachloro-1,3-butadiene	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Iodomethane	<4.0	<4.0	<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	<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	<4.0
Methyl-tert-butyl ether	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Naphthalene	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
n-Butylbenzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
n-Propylbenzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
o-Xylene	<1.0	<1.0	<1.0	<1.0	<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	**157**	<1.0	<1.0	<1.0	**22.7**	**30.7**	<1.0	**214**	<1.0
Tetrahydrofuran	**29.4**	<10.0	**11.7**	**11.5**	<10.0	<10.0	<10.0	**15.7**	<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	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0
Total VOC Concentration	**308.8**	**31.9**	**11.7**	**11.5**	**24**	**30.7**	**0**	**238**	**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[2]	DPE Discharge[1]
Collected Date	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	<5.0	<1.0	<50.0	<1.0	<5.0
1,1,1-Trichloroethane	<1.0	<1.0	<5.0	<1.0	<50.0	<1.0	**29.4**
1,1,2,2-Tetrachloroethane	<1.0	<1.0	<5.0	<1.0	<50.0	<1.0	<5.0
1,1,2-Trichloroethane	<4.0	<4.0	<20.0	<4.0	<200	<4.0	<20.0
1,1,2-Trichlorotrifluoroethane	**1.2**	<1.0	**10.4**	<1.0	**53.7**	<1.0	**7860**
1,1-Dichloroethane	<1.0	<1.0	<5.0	<1.0	<50.0	<1.0	<5.0
1,1-Dichloroethene	<1.0	<1.0	<5.0	<1.0	<50.0	<1.0	<5.0
1,1-Dichloropropene	<1.0	<1.0	<5.0	<1.0	<50.0	<1.0	<5.0
1,2,3-Trichlorobenzene	<1.0	<1.0	<5.0	<1.0	<50.0	<1.0	<5.0
1,2,3-Trichloropropane	<1.0	<1.0	<5.0	<1.0	<50.0	<1.0	<5.0
1,2,4-Trichlorobenzene	<1.0	<1.0	<5.0	<1.0	<50.0	<1.0	<5.0
1,2,4-Trimethylbenzene	<1.0	<1.0	<5.0	<1.0	<50.0	<1.0	**26.0**
1,2-Dibromo-3-chloropropane	<4.0	<4.0	<20.0	<4.0	<200	<4.0	<20.0
1,2-Dibromoethane (EDB)	<1.0	<1.0	<5.0	<1.0	<50.0	<1.0	<5.0
1,2-Dichlorobenzene	<1.0	<1.0	<5.0	<1.0	<50.0	<1.0	<5.0
1,2-Dichloroethane	<1.0	<1.0	<5.0	<1.0	<50.0	<1.0	<5.0
1,2-Dichloropropane	<1.0	<1.0	<5.0	<1.0	<50.0	<1.0	<5.0
1,3,5-Trimethylbenzene	<1.0	<1.0	<5.0	<1.0	<50.0	<1.0	**7.1**
1,3-Dichlorobenzene	<1.0	<1.0	<5.0	<1.0	<50.0	<1.0	<5.0
1,3-Dichloropropane	<1.0	<1.0	<5.0	<1.0	<50.0	<1.0	<5.0
1,4-Dichlorobenzene	<1.0	<1.0	<5.0	<1.0	<50.0	<1.0	**7.8**
2,2-Dichloropropane	<1.0	<1.0	<5.0	<1.0	<50.0	<1.0	<5.0
2-Butanone (MEK)	**13.5**	**19.8**	<20.0	**82.1**	<200	**1670**	**392**
2-Chloroethylvinyl ether	<10.0	<10.0	<50.0	<10.0	<1250	<25.0	<50.0
2-Chlorotoluene	<1.0	<1.0	<5.0	<1.0	<50.0	<1.0	**51.0**
2-Hexanone	<4.0	<4.0	<20.0	<4.0	<200	<4.0	<20.0
2-Methylnaphthalene	<5.0	<5.0	<25.0	<5.0	<250	<5.0	<25.0
4-Chlorotoluene	<1.0	<1.0	<5.0	<1.0	<50.0	<1.0	<5.0
4-Methyl-2-pentanone (MIBK)	<5.0	<5.0	<25.0	<5.0	<250	<5.0	<25.0
Acetone	<10.0	<10.0	<50.0	**68.7**	<500	**987**	<50.0
Acrolein	<40.0	<40.0	<200	<40.0	<2000	<40.0	<200
Acrylonitrile	<10.0	<10.0	<50.0	<10.0	<500	<10.0	<50.0
Allyl chloride	<4.0	<4.0	<20.0	<4.0	<200	<4.0	<20.0
Benzene	<1.0	<1.0	<5.0	<1.0	<50.0	<1.0	<5.0
Bromobenzene	<1.0	<1.0	<5.0	<1.0	<50.0	<1.0	<5.0
Bromochloromethane	<1.0	<1.0	<5.0	<1.0	<50.0	<1.0	<5.0
Bromodichloromethane	<4.0	<4.0	<20.0	<4.0	<200	<4.0	<20.0
Bromoform	<8.0	<8.0	<40.0	<8.0	<400	<8.0	<40.0
Bromomethane	<4.0	<4.0	<20.0	<4.0	<200	<4.0	<20.0
Carbon disulfide	<1.0	<1.0	<5.0	<1.0	<50.0	<1.0	<5.0
Carbon tetrachloride	<1.0	<1.0	<5.0	<1.0	<50.0	<1.0	<5.0
Chlorobenzene	<1.0	<1.0	<5.0	<1.0	<50.0	<1.0	<5.0
Chloroethane	<1.0	<1.0	<5.0	<1.0	<50.0	<1.0	<5.0
Chloroform	<1.0	<1.0	<5.0	<1.0	<50.0	<1.0	<5.0
Chloromethane	<1.0	<1.0	**63.3**	**76.4**	<50.0	<1.0	<5.0
Chloroprene	<1.0	<1.0	<5.0	<1.0	<50.0	<1.0	<5.0
cis-1,2-Dichloroethene	**1.5**	<1.0	**13.0**	<1.0	**62.9**	<1.0	**206**
cis-1,3-Dichloropropene	<4.0	<4.0	<20.0	<4.0	<200	<4.0	<20.0
Dibromochloromethane	<1.0	<1.0	<5.0	<1.0	<50.0	<1.0	<5.0
Dibromomethane	<1.0	<1.0	<5.0	<1.0	<50.0	<1.0	<5.0
Dichlorodifluoromethane	<1.0	<1.0	<5.0	<1.0	<50.0	<1.0	<5.0
Dichlorofluoromethane	<1.0	<1.0	<5.0	<1.0	<50.0	<1.0	<5.0
Diethyl ether (Ethyl ether)	<4.0	<4.0	<20.0	<4.0	<200	<4.0	<20.0
Ethylbenzene	<1.0	<1.0	<5.0	<1.0	<50.0	<1.0	<5.0
Hexachloro-1,3-butadiene	<4.0	<4.0	<20.0	<4.0	<200	<4.0	<20.0
Iodomethane	<4.0	<4.0	<20.0	<4.0	<200	<4.0	<20.0
Isopropylbenzene (Cumene)	<1.0	<1.0	<5.0	<1.0	<50.0	<1.0	<5.0
m&p-Xylene	<2.0	<2.0	<10.0	<2.0	<100	<2.0	<10.0
Methylene Chloride	<4.0	<4.0	<20.0	<4.0	<200	<4.0	<20.0
Methyl-tert-butyl ether	<1.0	<1.0	<5.0	<1.0	<50.0	<1.0	<5.0
Naphthalene	<4.0	<4.0	<20.0	<4.0	<200	<4.0	<20.0
n-Butylbenzene	<1.0	<1.0	<5.0	<1.0	<50.0	<1.0	5.0
n-Propylbenzene	<1.0	<1.0	<5.0	<1.0	<50.0	<1.0	<5.0
o-Xylene	<1.0	<1.0	<5.0	<1.0	<50.0	<1.0	<5.0
p-Isopropyltoluene	<1.0	<1.0	<5.0	<1.0	<50.0	<1.0	<5.0
sec-Butylbenzene	<1.0	<1.0	<5.0	<1.0	<50.0	<1.0	<5.0
Styrene	<1.0	<1.0	<5.0	<1.0	<50.0	<1.0	<5.0
tert-Butylbenzene	<1.0	<1.0	<5.0	<1.0	<50.0	<1.0	<5.0
Tetrachloroethene	**175**	<1.0	**1460**	<1.0	**3970**	**33.8**	**167000**
Tetrahydrofuran	<10.0	<10.0	<50.0	**252**	**543**	**6300**	**600**
Toluene	<1.0	<1.0	<5.0	<1.0	<50.0	<1.0	<5.0
trans-1,2-Dichloroethene	<1.0	<1.0	<5.0	<1.0	<50.0	<1.0	<5.0
trans-1,3-Dichloropropene	<4.0	<4.0	<20.0	<4.0	<200	<4.0	<20.0
Trichloroethene	<1.0	<1.0	<5.0	<1.0	<50.0	<1.0	**159**
Trichlorofluoromethane	<4.0	<4.0	<20.0	<4.0	<200	<4.0	<20.0
Vinyl acetate	<20.0	<20.0	<100	<20.0	<1000	<20.0	<100
Vinyl chloride	<0.40	<0.40	<2.0	<0.40	<20.0	<0.40	<2.0
Xylene (Total)	<3.0	<3.0	<15.0	<3.0	<150	<3.0	<15.0
Total VOC Concentration	**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-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

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	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-16	12/3/2008	989.44	12.32	977.12	pre-system installation
MW-16	6/8/2009	989.44	14.82	974.62	pre-system startup
MW-16	7/9/2009	989.44	14.23	975.21	DPE system on DPE-1
MW-16	7/9/2009	989.44	13.19	976.25	DPE system temporarily off
MW-16	9/4/2009	989.44	13.70	975.74	DPE system on
MW-16	9/4/2009	989.44	14.25	975.19	DPE system on after replacing inlet screen
MW-16	9/4/2009	989.44	14.58	974.86	DPE system on after replacing inlet filter
MW-16	10/15/2009	989.44	13.61	975.83	DPE system on DPE-1
MW-16	10/23/2009	989.44	11.89	977.55	DPE system off
MW-16	11/16/2009	989.44	11.44	978.00	DPE System on all wells
MW-16	12/17/2009	989.44	14.17	975.27	DPE System on all wells
MW-16	1/14/2010	989.44	12.57	976.87	DPE System on all wells
MW-16	2/22/2010	989.44	13.68	975.76	DPE System on all wells
MW-16	3/25/2010	989.44	12.50	976.94	DPE System on all wells
MW-16	4/16/2010	989.44	12.72	976.72	DPE System on all wells
MW-16	5/12/2010	989.44	13.41	976.03	DPE System on all wells
MW-16	6/17/2010	989.44	13.96	975.48	DPE System on all wells
MW-16	8/18/2010	989.44	13.91	975.53	DPE System on all wells
MW-16	9/27/2010	989.44	11.37	978.07	DPE System on all wells
MW-16	11/18/2010	989.44	11.61	977.83	DPE System not operating
MW-16	12/22/2010	989.44	12.63	976.81	DPE System restarted
MW-16	1/6/2011	989.44	11.30	978.14	DPE System on all wells
MW-16	1/20/2011	989.44	11.91	977.53	DPE System on all wells
MW-16	2/28/2011	989.44	11.77	977.67	DPE System on all wells
MW-16	3/7/2011	989.44	12.27	977.17	DPE System on all wells
MW-16	3/18/2011	989.44	12.38	977.06	DPE System on all wells
MW-16	3/23/2011	989.44	11.13	978.31	DPE System on all wells
MW-16	4/22/2011	989.44	11.92	977.52	DPE System on all wells
MW-16	5/19/2011	989.44	11.88	977.56	DPE System on all wells
MW-16	6/16/2011	989.44	11.97	977.47	DPE System on all wells
MW-16	7/25/2011	989.44	11.31	978.13	DPE System on all wells
MW-16	8/28/2011	989.44	12.59	976.85	DPE System on all wells
MW-16	9/29/2011	989.44	13.09	976.35	DPE-1,2,3,4
MW-16	10/18/2011	989.44	11.59	977.85	DPE-1,2,3,4
MW-16	10/27/2011	989.44	12.88	976.56	DPE-1,2,3,4
MW-16	11/21/2011	989.44	13.68	975.76	DPE-1,2,3,4
MW-16	1/20/212	989.44	12.73	976.71	DPE-1,2,3,4
MW-16	1/27/2012	989.44	13.88	975.56	DPE-1,2,3,4
MW-16	2/16/2012	989.44	13.99	975.45	DPE-1,2,3,4
MW-16	3/16/2012	989.44	14.14	975.30	DPE-1,2,3,4
MW-16	3/27/2012	989.44	13.34	976.10	DPE-1,2,3,4
MW-16	4/17/2012	989.44	13.88	975.56	DPE-1,2,3,4
MW-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

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	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-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-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

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	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-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

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	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
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-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

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	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-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-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

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	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-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-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

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	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-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

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	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-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	17.60	975.24	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
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

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	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
Elevator Draintile Sump	1/6/2011	990.20	NA	NA	DPE System on all wells
Elevator Draintile Sump	1/20/2011	990.20	6.84	983.36	DPE System on all wells
Elevator Draintile Sump	2/28/2011	990.20	7.03	983.17	DPE System on all wells
Elevator Draintile Sump	3/7/2011	990.20	6.91	983.29	DPE System on all wells
Elevator Draintile Sump	3/18/2011	990.20	6.97	983.23	DPE System on all wells
Elevator Draintile Sump	3/23/2011	990.20	6.76	983.44	DPE System on all wells
Elevator Draintile Sump	4/22/2011	990.20	6.52	983.68	DPE System on all wells
Elevator Draintile Sump	5/19/2011	990.20	6.27	983.93	DPE System on all wells
Elevator Draintile Sump	6/16/2011	990.20	6.52	983.68	DPE System on all wells
Elevator Draintile Sump	7/25/2011	990.20	5.58	984.62	DPE System on all wells
Elevator Draintile Sump	8/28/2011	990.20	6.56	983.64	DPE System on all wells
Elevator Draintile Sump	9/29/2011	990.20	6.97	983.23	DPE-1,2,3,4

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	10/18/2011	990.20	6.68	983.52	DPE-1,2,3,4
Elevator Draintile Sump	10/27/2011	990.20	7.01	983.19	DPE-1,2,3,4
Elevator Draintile Sump	11/21/2011	990.20	7.31	982.89	DPE-1,2,3,4
Elevator Draintile Sump	1/20/2012	990.20	7.33	982.87	DPE-1,2,3,4
Elevator Draintile Sump	1/27/2012	990.20	7.38	982.82	DPE-1,2,3,4
Elevator Draintile Sump	2/16/2012	990.20	7.44	982.76	DPE-1,2,3,4
Elevator Draintile Sump	3/16/2012	990.20	7.61	982.59	DPE-1,2,3,4
Elevator Draintile Sump	4/17/2012	990.20	7.97	982.23	DPE-1,2,3,4

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

TABLE 8

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

MN Bio Business Center
221 First Avenue SW
Rochester, Minnesota

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

Notes:

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

TABLE 9

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

Sample ID	Date	PCE Conc. (ug/L)	% Change
MW-14	12/3/2008	30.6	
	6/29/2009	30.6	
	10/1/2009	4.2	-86.3
	11/16/2009	7.1	-76.8
	2/23/2010	3.0	-90.2
	5/12/2010	3.1	-89.9
	8/18/2010	1.8	-94.1
	11/18/2010	6.6	-78.4
	3/1/2011	4.8	-84.3
	5/19/2011	5.0	-83.7
	8/28/2011	1.5	-95.1
	11/21/2011	1.5	-95.1
	2/16/2012	<1.0	-100.0
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
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
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

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-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
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
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
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

TABLE 9

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

Sample ID	Date	PCE Conc. (ug/L)	% Change

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-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
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
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
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

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
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
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

Notes:
NS - Not Sampled

TABLE 10

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

Sample ID Collected Date and Time	MDH Health Risk Limits 5/09	DPE-1 2/16/2012	DPE-1 11/21/2011	DPE-1 8/28/2011	DPE-1 5/19/2011	DPE-1 03/01/11	DPE-1 12/22/10
1,1,1,2-Tetrachloroethane	70	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0
1,1,1-Trichloroethane	9000	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0
1,1,2,2-Tetrachloroethane	2	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0
1,1,2-Trichloroethane	3	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0
1,1,2-Trichlorotrifluoroethane	200000	<1.0	**3.2**	**9.5**	**13.3**	**3.2**	**37.8**
1,1-Dichloroethane	70	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0
1,1-Dichloroethene	6	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0
1,1-Dichloropropene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0
1,2,3-Trichlorobenzene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0
1,2,3-Trichloropropane	40	<4.0	<4.0	<4.0	<4.0	<4.0	<5.0
1,2,4-Trichlorobenzene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0
1,2,4-Trimethylbenzene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0
1,2-Dibromo-3-chloropropane	NL	<4.0	<4.0	<4.0	<4.0	<4.0	<20.0
1,2-Dibromoethane (EDB)	.004	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0
1,2-Dichlorobenzene	600	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0
1,2-Dichloroethane	4	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0
1,2-Dichloropropane	5	<4.0	<4.0	<4.0	<4.0	<1.0	<5.0
1,3,5-Trimethylbenzene	100	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0
1,3-Dichlorobenzene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0
1,3-Dichloropropane	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0
1,4-Dichlorobenzene	10	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0
2,2-Dichloropropane	NL	<4.0	<4.0	<4.0	<4.0	<4.0	<20.0
2-Butanone (MEK)	4000	<4.0	<4.0	<4.0	<4.0	<4.0	<20.0
2-Chlorotoluene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0
4-Chlorotoluene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0
4-Methyl-2-pentanone (MIBK)	300	<4.0	<4.0	<4.0	<4.0	<4.0	<20.0
Acetone	700	<25.0	<25.0	<25.0	<25.0	<25.0	<50.0
Allyl chloride	30	<4.0	<4.0	<4.0	<4.0	<4.0	<20.0
Benzene	2	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0
Bromobenzene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0
Bromochloromethane	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0
Bromodichloromethane	6	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0
Bromoform	40	<4.0	<4.0	<4.0	<4.0	<8.0	<40.0
Bromomethane	10	<4.0	<4.0	<4.0	<4.0	<10.0	<20.0
Carbon tetrachloride	3	<1.0	<1.0	<1.0	<1.0	<4.0	<20.0
Chlorobenzene	100	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0
Chloroethane	300	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0
Chloroform	30	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0
Chloromethane	NL	<4.0	<4.0	<4.0	<4.0	<4.0	<20.0
cis-1,2-Dichloroethene	50	<1.0	<1.0	**2.9**	**1.3**	<1.0	**11.5**
cis-1,3-Dichloropropene	NL	<4.0	<4.0	<4.0	<4.0	<4.0	<20.0
Dibromochloromethane	10	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0
Dibromomethane	NL	<4.0	<4.0	<4.0	<4.0	<4.0	<20.0
Dichlorodifluoromethane	1000	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0
Dichlorofluoromethane	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0
Diethyl ether (Ethyl ether)	1000	<4.0	<4.0	<4.0	<4.0	<4.0	<20.0
Ethylbenzene	700	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0
Hexachloro-1,3-butadiene	1	<5.0	<5.0	<5.0	<5.0	<4.0	<20.0
Isopropylbenzene (Cumene)	300	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0
m&p-Xylene	NL	<2.0	<2.0	<2.0	<2.0	<2.0	<10.0
Methylene Chloride	5	<4.0	<4.0	<4.0	<4.0	<4.0	<20.0
Methyl-tert-butyl ether	70	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0
Naphthalene	300	<4.0	<4.0	<4.0	<4.0	<4.0	<20.0
n-Butylbenzene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0
n-Propylbenzene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0
o-Xylene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0
p-Isopropyltoluene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0
sec-Butylbenzene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0
Styrene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0
tert-Butylbenzene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0
Tetrachloroethene	5	**26.4**	**99.2**	**309**	**185**	**101**	**1190**
Tetrahydrofuran	100	<10.0	<10.0	<10.0	<10.0	<10.0	<50.0
Toluene	1000	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0
trans-1,2-Dichloroethene	100	<1.0	<4.0	<4.0	<4.0	<1.0	<5.0
trans-1,3-Dichloropropene	NL	<4.0	<4.0	<4.0	<4.0	<4.0	<20.0
Trichloroethene	5	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0
Trichlorofluoromethane	2000	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0
Vinyl chloride	0.2	<0.40	<0.40	<0.40	<0.40	<0.40	<2.0
Xylene (Total)	10000	<3.0	<3.0	<3.0	<3.0	<3.0	<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-1 08/18/10	DPE-1 05/13/10	DPE-1 02/22/10	DPE-1 11/16/09	DPE-1 09/28/09	DPE-1 12/10/08	DPE-1 8/7/2008
1,1,1,2-Tetrachloroethane	70	<5.0	<1.0	<25.0	<25.0	<50.0	NA*	<250
1,1,1-Trichloroethane	9000	<5.0	<1.0	<25.0	<25.0	<50.0	NA*	<250
1,1,2,2-Tetrachloroethane	2	<5.0	<1.0	<25.0	<25.0	<50.0	NA*	<250
1,1,2-Trichloroethane	3	<5.0	<1.0	<25.0	<25.0	<50.0	NA*	<250
1,1,2-Trichlorotrifluoroethane	200000	**66.4**	**148**	**190**	**215**	**912**	NA*	**11,300**
1,1-Dichloroethane	70	<5.0	<1.0	<25.0	<25.0	<50.0	NA*	<250
1,1-Dichloroethene	6	<5.0	<1.0	<25.0	<25.0	<50.0	<2000	<250
1,1-Dichloropropene	NL	<5.0	<1.0	<25.0	<25.0	<50.0	NA*	<250
1,2,3-Trichlorobenzene	NL	<5.0	<1.0	<25.0	<25.0	<50.0	NA*	<250
1,2,3-Trichloropropane	40	<5.0	<1.0	<25.0	<25.0	<50.0	NA*	<250
1,2,4-Trichlorobenzene	NL	<5.0	<1.0	<25.0	<25.0	<50.0	NA*	<250
1,2,4-Trimethylbenzene	NL	<5.0	<1.0	<25.0	<25.0	<50.0	NA*	<250
1,2-Dibromo-3-chloropropane	NL	<20.0	<4.0	<100	<100	<200	NA*	<1000
1,2-Dibromoethane (EDB)	.004	<5.0	<1.0	<25.0	<25.0	<50.0	NA*	<250
1,2-Dichlorobenzene	600	<5.0	<1.0	<25.0	<25.0	<50.0	NA*	<250
1,2-Dichloroethane	4	<5.0	<1.0	<25.0	<25.0	<50.0	NA*	<250
1,2-Dichloropropane	5	<5.0	<1.0	<25.0	<25.0	<50.0	NA*	<250
1,3,5-Trimethylbenzene	100	<5.0	<1.0	<25.0	<25.0	<50.0	NA*	<250
1,3-Dichlorobenzene	NL	<5.0	<1.0	<25.0	<25.0	<50.0	NA*	<250
1,3-Dichloropropane	NL	<5.0	<1.0	<25.0	<25.0	<50.0	NA*	<250
1,4-Dichlorobenzene	10	<5.0	<1.0	<25.0	<25.0	<50.0	NA*	<250
2,2-Dichloropropane	NL	<20.0	<4.0	<25.0	<100	<50.0	NA*	<250
2-Butanone (MEK)	4000	<20.0	<4.0	<100	<100	<200	NA*	<1000
2-Chlorotoluene	NL	<5.0	<1.0	<25.0	<25.0	<50.0	NA*	<250
4-Chlorotoluene	NL	<5.0	<1.0	<25.0	<25.0	<50.0	NA*	<250
4-Methyl-2-pentanone (MIBK)	300	<20.0	<4.0	<100	<100	<200	NA*	<1000
Acetone	700	<50.0	<10.0	<250	<250	<500	NA*	<2500
Allyl chloride	30	<20.0	<4.0	<100	<100	<200	NA*	<1000
Benzene	2	<5.0	<1.0	<25.0	<25.0	<50.0	NA*	<250
Bromobenzene	NL	<5.0	<1.0	<25.0	<25.0	<50.0	NA*	<250
Bromochloromethane	NL	<5.0	<1.0	<25.0	<25.0	<50.0	NA*	<250
Bromodichloromethane	6	<5.0	<1.0	<25.0	<25.0	<50.0	NA*	<250
Bromoform	40	<40.0	<8.0	<200	<200	<400	NA*	<2000
Bromomethane	10	<20.0	<4.0	<100	<100	<200	NA*	<1000
Carbon tetrachloride	3	<20.0	<4.0	<25.0	<100	<50.0	NA*	<250
Chlorobenzene	100	<5.0	<1.0	<25.0	<25.0	<50.0	NA*	<250
Chloroethane	300	<5.0	<1.0	<25.0	<25.0	<50.0	NA*	<250
Chloroform	30	<5.0	**2.6**	<25.0	<25.0	<50.0	NA*	<250
Chloromethane	NL	<20.0	<4.0	<100	<100	<200	NA*	<250
cis-1,2-Dichloroethene	50	<5.0	**8.7**	<25.0	<25.0	<50.0	<2000	**3,250**
cis-1,3-Dichloropropene	NL	<20.0	<4.0	<100	<100	<200	NA*	<1000
Dibromochloromethane	10	<5.0	<1.0	<25.0	<25.0	<50.0	NA*	<250
Dibromomethane	NL	<20.0	<4.0	<25.0	<25.0	<50.0	NA*	<250
Dichlorodifluoromethane	1000	<5.0	<1.0	<25.0	<25.0	<50.0	NA*	<250
Dichlorofluoromethane	NL	<5.0	<1.0	<25.0	<25.0	<50.0	NA*	<250
Diethyl ether (Ethyl ether)	1000	<20.0	<4.0	<100	<100	<200	NA*	<1000
Ethylbenzene	700	<5.0	<1.0	<25.0	<25.0	<50.0	NA*	<250
Hexachloro-1,3-butadiene	1	<20.0	<4.0	<100	<100	<200	NA*	<1000
Isopropylbenzene (Cumene)	300	<5.0	<1.0	<25.0	<25.0	<50.0	NA*	<250
m&p-Xylene	NL	<10.0	<2.0	<50.0	<50.0	<100	NA*	<500
Methylene Chloride	5	<20.0	<4.0	<100	<100	<200	NA*	<1000
Methyl-tert-butyl ether	70	<5.0	<1.0	<25.0	<25.0	<50.0	NA*	<250
Naphthalene	300	<20.0	<4.0	<100	<100	<200	NA*	<1000
n-Butylbenzene	NL	<5.0	<1.0	<25.0	<25.0	<50.0	NA*	<250
n-Propylbenzene	NL	<5.0	<1.0	<25.0	<25.0	<50.0	NA*	<250
o-Xylene	NL	<5.0	<1.0	<25.0	<25.0	<50.0	NA*	<250
p-Isopropyltoluene	NL	<5.0	<1.0	<25.0	<25.0	<50.0	NA*	<250
sec-Butylbenzene	NL	<5.0	<1.0	<25.0	<25.0	<50.0	NA*	<250
Styrene	NL	<5.0	<1.0	<25.0	<25.0	<50.0	NA*	<250
tert-Butylbenzene	NL	<5.0	<1.0	<25.0	<25.0	<50.0	NA*	<250
Tetrachloroethene	5	**965**	**1,700**	**2,610**	**3,330**	**6,820**	**161,000**	**157,000**
Tetrahydrofuran	100	<50.0	<10.0	<250	<250	<500	NA*	<2500
Toluene	1000	<5.0	<1.0	<25.0	<25.0	<50.0	NA*	<250
trans-1,2-Dichloroethene	100	<5.0	<1.0	<25.0	<25.0	<50.0	<2000	<250
trans-1,3-Dichloropropene	NL	<20.0	<4.0	<100	<100	<200	NA*	<1000
Trichloroethene	5	<5.0	**2.3**	<25.0	<25.0	<50.0	<2000	**563**
Trichlorofluoromethane	2000	<5.0	<1.0	<25.0	<25.0	<50.0	NA*	<250
Vinyl chloride	0.2	<2.0	<0.40	<10.0	<10.0	<20.0	<800	<100
Xylene (Total)	10000	<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 02/16/12	DPE-2 11/21/11	DPE-2 08/28/11	DPE-2 05/19/11	DPE-2 03/01/11	DPE-2 12/22/10
1,1,1,2-Tetrachloroethane	70	<5.0	<10.0	<10.0	<1.0	<25.0	<50.0
1,1,1-Trichloroethane	9000	<5.0	<10.0	<10.0	<1.0	<25.0	<50.0
1,1,2,2-Tetrachloroethane	2	<5.0	<10.0	<10.0	<1.0	<25.0	<50.0
1,1,2-Trichloroethane	3	<5.0	<10.0	<10.0	<1.0	<25.0	<50.0
1,1,2-Trichlorotrifluoroethane	200000	**41.5**	**110**	**212**	**199**	<25.0	**356**
1,1-Dichloroethane	70	<5.0	<10.0	<10.0	<1.0	<25.0	<50.0
1,1-Dichloroethene	6	<5.0	<10.0	<10.0	<1.0	<25.0	<50.0
1,1-Dichloropropene	NL	<5.0	<10.0	<10.0	<1.0	<25.0	<50.0
1,2,3-Trichlorobenzene	NL	<5.0	<10.0	<10.0	<1.0	<25.0	<50.0
1,2,3-Trichloropropane	40	<20.0	<40.0	<40.0	<4.0	<100	<50.0
1,2,4-Trichlorobenzene	NL	<5.0	<10.0	<10.0	<1.0	<25.0	<50.0
1,2,4-Trimethylbenzene	NL	<5.0	<10.0	<10.0	<1.0	<25.0	<50.0
1,2-Dibromo-3-chloropropane	NL	<20.0	<40.0	<40.0	<4.0	<100	<200
1,2-Dibromoethane (EDB)	.004	<5.0	<10.0	<10.0	<1.0	<25.0	<50.0
1,2-Dichlorobenzene	600	<5.0	<10.0	<10.0	<1.0	<25.0	<50.0
1,2-Dichloroethane	4	<5.0	<10.0	<10.0	<1.0	<25.0	<50.0
1,2-Dichloropropane	5	<20.0	<40.0	<40.0	<4.0	<25.0	<50.0
1,3,5-Trimethylbenzene	100	<5.0	<10.0	<10.0	<1.0	<25.0	<50.0
1,3-Dichlorobenzene	NL	<5.0	<10.0	<10.0	<1.0	<25.0	<50.0
1,3-Dichloropropane	NL	<5.0	<10.0	<10.0	<1.0	<25.0	<50.0
1,4-Dichlorobenzene	10	<5.0	<10.0	<10.0	<1.0	<25.0	<50.0
2,2-Dichloropropane	NL	<20.0	<40.0	<40.0	<4.0	<100	<200
2-Butanone (MEK)	4000	<20.0	<40.0	<40.0	<4.0	<100	<200
2-Chlorotoluene	NL	<5.0	<10.0	<10.0	<1.0	<25.0	<50.0
4-Chlorotoluene	NL	<5.0	<10.0	<10.0	<1.0	<25.0	<50.0
4-Methyl-2-pentanone (MIBK)	300	<20.0	<40.0	<40.0	<4.0	<100	<200
Acetone	700	<125	<250	<250	<25.0	<625	<500
Allyl chloride	30	<20.0	<40.0	<40.0	<4.0	<100	<200
Benzene	2	<5.0	<10.0	<10.0	<1.0	<25.0	<50.0
Bromobenzene	NL	<5.0	<10.0	<10.0	<1.0	<25.0	<50.0
Bromochloromethane	NL	<5.0	<10.0	<10.0	<1.0	<25.0	<50.0
Bromodichloromethane	6	<5.0	<10.0	<10.0	<1.0	<25.0	<50.0
Bromoform	40	<20.0	<40.0	<40.0	<4.0	<200	<400
Bromomethane	10	<20.0	<40.0	<40.0	<4.0	<250	<200
Carbon tetrachloride	3	<5.0	<10.0	<10.0	<1.0	<100	<200
Chlorobenzene	100	<5.0	<10.0	<10.0	<1.0	<25.0	<50.0
Chloroethane	300	<5.0	<10.0	<10.0	<1.0	<25.0	<50.0
Chloroform	30	<5.0	<10.0	<10.0	**3.1**	<25.0	<50.0
Chloromethane	NL	<20.0	<40.0	<40.0	<4.0	<100	<200
cis-1,2-Dichloroethene	50	<5.0	<10.0	<10.0	**5.5**	<25.0	<50.0
cis-1,3-Dichloropropene	NL	<20.0	<40.0	<40.0	<4.0	<100	<200
Dibromochloromethane	10	<5.0	<10.0	<10.0	<1.0	<25.0	<50.0
Dibromomethane	NL	<20.0	<40.0	<40.0	<4.0	<100	<200
Dichlorodifluoromethane	1000	<5.0	<10.0	<10.0	<1.0	<25.0	<50.0
Dichlorofluoromethane	NL	<5.0	<10.0	<10.0	<1.0	<25.0	<50.0
Diethyl ether (Ethyl ether)	1000	<20.0	<40.0	<40.0	<4.0	<100	<200
Ethylbenzene	700	<5.0	<10.0	<10.0	<1.0	<25.0	<50.0
Hexachloro-1,3-butadiene	1	<25.0	<50.0	<50.0	<5.0	<100	<200
Isopropylbenzene (Cumene)	300	<5.0	<10.0	<10.0	<1.0	<25.0	<50.0
m&p-Xylene	NL	<10.0	<20.0	<20.0	<2.0	<50.0	<100
Methylene Chloride	5	<20.0	<40.0	<40.0	<4.0	<100	<200
Methyl-tert-butyl ether	70	<5.0	<10.0	<10.0	<1.0	<25.0	<50.0
Naphthalene	300	<20.0	<40.0	<40.0	<4.0	<100	<200
n-Butylbenzene	NL	<5.0	<10.0	<10.0	<1.0	<25.0	<50.0
n-Propylbenzene	NL	<5.0	<10.0	<10.0	<1.0	<25.0	<50.0
o-Xylene	NL	<5.0	<10.0	<10.0	<1.0	<25.0	<50.0
p-Isopropyltoluene	NL	<5.0	<10.0	<10.0	<1.0	<25.0	<50.0
sec-Butylbenzene	NL	<5.0	<10.0	<10.0	<1.0	<25.0	<50.0
Styrene	NL	<5.0	<10.0	<10.0	<1.0	<25.0	<50.0
tert-Butylbenzene	NL	<5.0	<10.0	<10.0	<1.0	<25.0	<50.0
Tetrachloroethene	5	**511**	**890**	**2080**	**1680**	**2,990**	**4,690**
Tetrahydrofuran	100	<50.0	<100	<100	<10.0	<250	<500
Toluene	1000	<5.0	<10.0	<10.0	<1.0	<25.0	<50.0
trans-1,2-Dichloroethene	100	<5.0	<40.0	<40.0	<4.0	<25.0	<50.0
trans-1,3-Dichloropropene	NL	<20.0	<40.0	<40.0	<4.0	<100	<200
Trichloroethene	5	<5.0	<10.0	<10.0	**2.2**	<25.0	<50.0
Trichlorofluoromethane	2000	<5.0	<10.0	<10.0	<1.0	<25.0	<50.0
Vinyl chloride	0.2	<2.0	<4.0	<4.0	<0.40	<10.0	<20.0
Xylene (Total)	10000	<15.0	<30.0	<30.0	<3.0	<75.0	<150

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 08/18/10	DPE-2 05/13/10	DPE-2 02/22/10	DPE-2 11/17/2009	DPE-2 09/28/09	DPE-2 12/10/08
1,1,1,2-Tetrachloroethane	70	<50.0	<1.0	<20.0	<100	<250	NA*
1,1,1-Trichloroethane	9000	<50.0	**2.9**	<20.0	<100	<250	NA*
1,1,2,2-Tetrachloroethane	2	<50.0	<1.0	<20.0	<100	<250	NA*
1,1,2-Trichloroethane	3	<50.0	<1.0	<20.0	<100	<250	NA*
1,1,2-Trichlorotrifluoroethane	200000	**997**	**673**	**305**	**1,270**	**1,620**	NA*
1,1-Dichloroethane	70	<50.0	<1.0	<20.0	<100	<250	NA*
1,1-Dichloroethene	6	<50.0	<1.0	<20.0	<100	<250	<500
1,1-Dichloropropene	NL	<50.0	<1.0	<20.0	<100	<250	NA*
1,2,3-Trichlorobenzene	NL	<50.0	<1.0	<20.0	<100	<250	NA*
1,2,3-Trichloropropane	40	<50.0	<1.0	<20.0	<100	<250	NA*
1,2,4-Trichlorobenzene	NL	<50.0	<1.0	<20.0	<100	<250	NA*
1,2,4-Trimethylbenzene	NL	<50.0	<1.0	<20.0	<100	<250	NA*
1,2-Dibromo-3-chloropropane	NL	<200	<4.0	<80.0	<400	<1000	NA*
1,2-Dibromoethane (EDB)	.004	<50.0	<1.0	<20.0	<100	<250	NA*
1,2-Dichlorobenzene	600	<50.0	<1.0	<20.0	<100	<250	NA*
1,2-Dichloroethane	4	<50.0	<1.0	<20.0	<100	<250	NA*
1,2-Dichloropropane	5	<50.0	**1.3**	<20.0	<100	<250	NA*
1,3,5-Trimethylbenzene	100	<50.0	<1.0	<20.0	<100	<250	NA*
1,3-Dichlorobenzene	NL	<50.0	<1.0	<20.0	<100	<250	NA*
1,3-Dichloropropane	NL	<50.0	<1.0	<20.0	<100	<250	NA*
1,4-Dichlorobenzene	10	<50.0	<1.0	<20.0	<100	<250	NA*
2,2-Dichloropropane	NL	<200	<4.0	<20.0	<400	<250	NA*
2-Butanone (MEK)	4000	<200	<4.0	<80.0	<400	<1000	NA*
2-Chlorotoluene	NL	<50.0	<1.0	<20.0	<100	<250	NA*
4-Chlorotoluene	NL	<50.0	<1.0	<20.0	<100	<250	NA*
4-Methyl-2-pentanone (MIBK)	300	<200	<4.0	<80.0	<400	<1000	NA*
Acetone	700	<500	<10.0	<200	<1000	<2500	NA*
Allyl chloride	30	<200	<4.0	<80.0	<400	<1000	NA*
Benzene	2	<50.0	<1.0	<20.0	<100	<250	NA*
Bromobenzene	NL	<50.0	<1.0	<20.0	<100	<250	NA*
Bromochloromethane	NL	<50.0	<1.0	<20.0	<100	<250	NA*
Bromodichloromethane	6	<50.0	<1.0	<20.0	<100	<250	NA*
Bromoform	40	<400	<8.0	<160	<800	<2000	NA*
Bromomethane	10	<200	<4.0	<80.0	<400	<1000	NA*
Carbon tetrachloride	3	<200	<4.0	<20.0	<400	<250	NA*
Chlorobenzene	100	<50.0	<1.0	<20.0	<100	<250	NA*
Chloroethane	300	<50.0	<1.0	<20.0	<100	<250	NA*
Chloroform	30	<50.0	**3.7**	<20.0	<100	<250	NA*
Chloromethane	NL	<200	<4.0	<80.0	<400	<1000	NA*
cis-1,2-Dichloroethene	50	<50.0	**25.8**	<20.0	<100	<250	<500
cis-1,3-Dichloropropene	NL	<200	<4.0	<80.0	<400	<1000	NA*
Dibromochloromethane	10	<50.0	<1.0	<20.0	<100	<250	NA*
Dibromomethane	NL	<200	<4.0	<20.0	<100	<250	NA*
Dichlorodifluoromethane	1000	<50.0	<1.0	<20.0	<100	<250	NA*
Dichlorofluoromethane	NL	<50.0	<1.0	<20.0	<100	<250	NA*
Diethyl ether (Ethyl ether)	1000	<200	<4.0	<80.0	<400	<1000	NA*
Ethylbenzene	700	<50.0	<1.0	<20.0	<100	<250	NA*
Hexachloro-1,3-butadiene	1	<200	<4.0	<80.0	<400	<1000	NA*
Isopropylbenzene (Cumene)	300	<50.0	<1.0	<20.0	<100	<250	NA*
m&p-Xylene	NL	<100	<2.0	<40.0	<200	<500	NA*
Methylene Chloride	5	<200	<4.0	<80.0	<400	<1000	NA*
Methyl-tert-butyl ether	70	<50.0	<1.0	<20.0	<100	<250	NA*
Naphthalene	300	<200	<4.0	<80.0	<400	<1000	NA*
n-Butylbenzene	NL	<50.0	<1.0	<20.0	<100	<250	NA*
n-Propylbenzene	NL	<50.0	<1.0	<20.0	<100	<250	NA*
o-Xylene	NL	<50.0	<1.0	<20.0	<100	<250	NA*
p-Isopropyltoluene	NL	<50.0	<1.0	<20.0	<100	<250	NA*
sec-Butylbenzene	NL	<50.0	<1.0	<20.0	<100	<250	NA*
Styrene	NL	<50.0	<1.0	<20.0	<100	<250	NA*
tert-Butylbenzene	NL	<50.0	<1.0	<20.0	<100	<250	NA*
Tetrachloroethene	5	**12,100**	**5,800**	**2,710**	**10,600**	**32,000**	**38,200**
Tetrahydrofuran	100	<500	<10.0	<200	<1000	<2500	NA*
Toluene	1000	<50.0	<1.0	<20.0	<100	<250	NA*
trans-1,2-Dichloroethene	100	<50.0	<1.0	<20.0	<100	<250	<500
trans-1,3-Dichloropropene	NL	<200	<4.0	<80.0	<400	<1000	NA*
Trichloroethene	5	<50.0	**7.5**	<20.0	<100	<250	<500
Trichlorofluoromethane	2000	<50.0	<1.0	<20.0	<100	<250	NA*
Vinyl chloride	0.2	<20.0	<0.40	<8.0	<40.0	<100	<200
Xylene (Total)	10000	<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 02/16/12	DPE-3 11/21/11	DPE-3 08/28/11	DPE-3 05/19/11	DPE-3 03/01/11	DPE-3 12/22/10
1,1,1,2-Tetrachloroethane	70	<10.0	<25.0	<25.0	<20.0	<10.0	<10.0
1,1,1-Trichloroethane	9000	<10.0	<25.0	<25.0	<20.0	<10.0	<10.0
1,1,2,2-Tetrachloroethane	2	<10.0	<25.0	<25.0	<20.0	<10.0	<10.0
1,1,2-Trichloroethane	3	<10.0	<25.0	<25.0	<20.0	<10.0	<10.0
1,1,2-Trichlorotrifluoroethane	200000	**251**	**787**	**348**	**343**	**1030**	**78.8**
1,1-Dichloroethane	70	<10.0	<25.0	<25.0	<20.0	<10.0	<10.0
1,1-Dichloroethene	6	<10.0	<25.0	<25.0	<20.0	<10.0	<10.0
1,1-Dichloropropene	NL	<10.0	<25.0	<25.0	<20.0	<10.0	<10.0
1,2,3-Trichlorobenzene	NL	<10.0	<25.0	<25.0	<20.0	<10.0	<10.0
1,2,3-Trichloropropane	40	<40.0	<100	<100	<80.0	<40.0	<10.0
1,2,4-Trichlorobenzene	NL	<10.0	<25.0	<25.0	<20.0	<10.0	<10.0
1,2,4-Trimethylbenzene	NL	<10.0	<25.0	<25.0	<20.0	<10.0	<10.0
1,2-Dibromo-3-chloropropane	NL	<40.0	<100	<100	<80.0	<40.0	<40.0
1,2-Dibromoethane (EDB)	.004	<10.0	<25.0	<25.0	<20.0	<10.0	<10.0
1,2-Dichlorobenzene	600	<10.0	<25.0	<25.0	<20.0	<10.0	<10.0
1,2-Dichloroethane	4	<10.0	<25.0	<25.0	<20.0	<10.0	<10.0
1,2-Dichloropropane	5	<40.0	<100	<100	<80.0	<10.0	<10.0
1,3,5-Trimethylbenzene	100	<10.0	<25.0	<25.0	<20.0	<10.0	<10.0
1,3-Dichlorobenzene	NL	<10.0	<25.0	<25.0	<20.0	<10.0	<10.0
1,3-Dichloropropane	NL	<10.0	<25.0	<25.0	<20.0	<10.0	<10.0
1,4-Dichlorobenzene	10	<10.0	<25.0	<25.0	<20.0	<10.0	<10.0
2,2-Dichloropropane	NL	<40.0	<100	<100	<80.0	<40.0	<40.0
2-Butanone (MEK)	4000	<40.0	<100	<100	<80.0	<40.0	<40.0
2-Chlorotoluene	NL	<10.0	<25.0	<25.0	<20.0	<10.0	<10.0
4-Chlorotoluene	NL	<10.0	<25.0	<25.0	<20.0	<10.0	<10.0
4-Methyl-2-pentanone (MIBK)	300	<40.0	<100	<100	<80.0	<40.0	<40.0
Acetone	700	<250	<625	<625	<500	<250	<100
Allyl chloride	30	<40.0	<100	<100	<80.0	<40.0	<40.0
Benzene	2	<10.0	<25.0	<25.0	<20.0	<10.0	<10.0
Bromobenzene	NL	<10.0	<25.0	<25.0	<20.0	<10.0	<10.0
Bromochloromethane	NL	<10.0	<25.0	<25.0	<20.0	<10.0	<10.0
Bromodichloromethane	6	<10.0	<25.0	<25.0	<20.0	<10.0	<10.0
Bromoform	40	<40.0	<100	<100	<80.0	<80.0	<80.0
Bromomethane	10	<40.0	<100	<100	<80.0	<40.0	<40.0
Carbon tetrachloride	3	<10.0	<25.0	<25.0	<20.0	<40.0	<40.0
Chlorobenzene	100	<10.0	<25.0	<25.0	<20.0	<10.0	<10.0
Chloroethane	300	<10.0	<25.0	<25.0	<20.0	<10.0	<10.0
Chloroform	30	<10.0	<25.0	<25.0	<20.0	<10.0	<10.0
Chloromethane	NL	<40.0	<100	<100	<80.0	<40.0	<40.0
cis-1,2-Dichloroethene	50	<10.0	<25.0	<25.0	<20.0	**19.6**	<10.0
cis-1,3-Dichloropropene	NL	<40.0	<100	<100	<80.0	<40.0	<40.0
Dibromochloromethane	10	<10.0	<25.0	<25.0	<20.0	<10.0	<10.0
Dibromomethane	NL	<40.0	<100	<100	<80.0	<40.0	<40.0
Dichlorodifluoromethane	1000	<10.0	<25.0	<25.0	<20.0	<10.0	<10.0
Dichlorofluoromethane	NL	<10.0	<25.0	<25.0	<20.0	<10.0	<10.0
Diethyl ether (Ethyl ether)	1000	<40.0	<100	<100	<80.0	<40.0	<40.0
Ethylbenzene	700	<10.0	<25.0	<25.0	<20.0	<10.0	<10.0
Hexachloro-1,3-butadiene	1	<50.0	<125	<125	<100	<40.0	<40.0
Isopropylbenzene (Cumene)	300	<10.0	<25.0	<25.0	<20.0	<10.0	<10.0
m&p-Xylene	NL	<20.0	<50.0	<50.0	<40.0	<20.0	<20.0
Methylene Chloride	5	<40.0	<100	<100	<80.0	<40.0	<40.0
Methyl-tert-butyl ether	70	<10.0	<25.0	<25.0	<20.0	<10.0	<10.0
Naphthalene	300	<40.0	<100	<100	<80.0	<40.0	<40.0
n-Butylbenzene	NL	<10.0	<25.0	<25.0	<20.0	<10.0	<10.0
n-Propylbenzene	NL	<10.0	<25.0	<25.0	<20.0	<10.0	<10.0
o-Xylene	NL	<10.0	<25.0	<25.0	<20.0	<10.0	<10.0
p-Isopropyltoluene	NL	<10.0	<25.0	<25.0	<20.0	<10.0	<10.0
sec-Butylbenzene	NL	<10.0	<25.0	<25.0	<20.0	<10.0	<10.0
Styrene	NL	<10.0	<25.0	<25.0	<20.0	<10.0	<10.0
tert-Butylbenzene	NL	<10.0	<25.0	<25.0	<20.0	<10.0	<10.0
Tetrachloroethene	5	**1010**	**5310**	**4260**	**3220**	**12,700**	**1,450**
Tetrahydrofuran	100	<100	<250	<250	<200	<100	<100
Toluene	1000	<10.0	<25.0	<25.0	<20.0	<10.0	<10.0
trans-1,2-Dichloroethene	100	<10.0	<100	<100	<80.0	<10.0	<10.0
trans-1,3-Dichloropropene	NL	<40.0	<100	<100	<80.0	<40.0	<40.0
Trichloroethene	5	<10.0	<25.0	<25.0	<20.0	**12.3**	<10.0
Trichlorofluoromethane	2000	<10.0	<25.0	<25.0	<20.0	<10.0	<10.0
Vinyl chloride	0.2	<4.0	<10.0	<10.0	<8.0	<4.0	<4.0
Xylene (Total)	10000	<30.0	<75.0	<75.0	<60.0	<30.0	<30.0

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

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

TABLE 10

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

Sample ID Collected Date and Time	MDH Health Risk Limits 5/09	DPE-3 08/18/10	DPE-3 05/13/10	DPE-3 02/22/10	DPE-3 11/17/09	DPE-3 09/28/09	DPE-3 12/10/08
1,1,1,2-Tetrachloroethane	70	<20.0	<1.0	<10.0	<200	<200	NA*
1,1,1-Trichloroethane	9000	<20.0	<1.0	<10.0	<200	<200	NA*
1,1,2,2-Tetrachloroethane	2	<20.0	<1.0	<10.0	<200	<200	NA*
1,1,2-Trichloroethane	3	<20.0	<1.0	<10.0	<200	<200	NA*
1,1,2-Trichlorotrifluoroethane	200000	**2,260**	**49.5**	**67.1**	**1,920**	**843**	NA*
1,1-Dichloroethane	70	<20.0	<1.0	<10.0	<200	<200	NA*
1,1-Dichloroethene	6	<20.0	<1.0	<10.0	<200	<200	<500
1,1-Dichloropropene	NL	<20.0	<1.0	<10.0	<200	<200	NA*
1,2,3-Trichlorobenzene	NL	<20.0	<1.0	<10.0	<200	<200	NA*
1,2,3-Trichloropropane	40	<20.0	<1.0	<10.0	<200	<200	NA*
1,2,4-Trichlorobenzene	NL	<20.0	<1.0	<10.0	<200	<200	NA*
1,2,4-Trimethylbenzene	NL	<20.0	<1.0	<10.0	<200	<200	NA*
1,2-Dibromo-3-chloropropane	NL	<80.0	<4.0	<40.0	<800	<800	NA*
1,2-Dibromoethane (EDB)	.004	<20.0	<1.0	<10.0	<200	<200	NA*
1,2-Dichlorobenzene	600	<20.0	<1.0	<10.0	<200	<200	NA*
1,2-Dichloroethane	4	<20.0	<1.0	<10.0	<200	<200	NA*
1,2-Dichloropropane	5	<20.0	<1.0	<10.0	<200	<200	NA*
1,3,5-Trimethylbenzene	100	<20.0	<1.0	<10.0	<200	<200	NA*
1,3-Dichlorobenzene	NL	<20.0	<1.0	<10.0	<200	<200	NA*
1,3-Dichloropropane	NL	<20.0	<1.0	<10.0	<200	<200	NA*
1,4-Dichlorobenzene	10	<20.0	<1.0	<10.0	<200	<200	NA*
2,2-Dichloropropane	NL	<80.0	<4.0	<10.0	<800	<200	NA*
2-Butanone (MEK)	4000	<80.0	<4.0	<40.0	<800	<800	NA*
2-Chlorotoluene	NL	<20.0	<1.0	<10.0	<200	<200	NA*
4-Chlorotoluene	NL	<20.0	<1.0	<10.0	<200	<200	NA*
4-Methyl-2-pentanone (MIBK)	300	<80.0	<4.0	<40.0	<800	<800	NA*
Acetone	700	<200	<10.0	<100	<2000	<2000	NA*
Allyl chloride	30	<80.0	<4.0	<40.0	<800	<800	NA*
Benzene	2	<20.0	<1.0	<10.0	<200	<200	NA*
Bromobenzene	NL	<20.0	<1.0	<10.0	<200	<200	NA*
Bromochloromethane	NL	<20.0	<1.0	<10.0	<200	<200	NA*
Bromodichloromethane	6	<20.0	<1.0	<10.0	<200	<200	NA*
Bromoform	40	<160	<8.0	<80.0	<1600	<1600	NA*
Bromomethane	10	<80.0	<4.0	<40.0	<800	<800	NA*
Carbon tetrachloride	3	<80.0	<4.0	<10.0	<800	<200	NA*
Chlorobenzene	100	<20.0	<1.0	<10.0	<200	<200	NA*
Chloroethane	300	<20.0	<1.0	<10.0	<200	<200	NA*
Chloroform	30	<20.0	<1.0	<10.0	<200	<200	NA*
Chloromethane	NL	<80.0	<4.0	<40.0	<800	<800	NA*
cis-1,2-Dichloroethene	50	**59.2**	**2.6**	<10.0	<200	<200	**1,090**
cis-1,3-Dichloropropene	NL	<80.0	<4.0	<40.0	<800	<800	NA*
Dibromochloromethane	10	<20.0	<1.0	<10.0	<200	<200	NA*
Dibromomethane	NL	<80.0	<4.0	<10.0	<200	<200	NA*
Dichlorodifluoromethane	1000	<20.0	<1.0	<10.0	<200	<200	NA*
Dichlorofluoromethane	NL	<20.0	<1.0	<10.0	<200	<200	NA*
Diethyl ether (Ethyl ether)	1000	<80.0	<4.0	<40.0	<800	<800	NA*
Ethylbenzene	700	<20.0	<1.0	<10.0	<200	<200	NA*
Hexachloro-1,3-butadiene	1	<80.0	<4.0	<40.0	<800	<800	NA*
Isopropylbenzene (Cumene)	300	<20.0	<1.0	<10.0	<200	<200	NA*
m&p-Xylene	NL	<40.0	<2.0	<20.0	<400	<400	NA*
Methylene Chloride	5	<80.0	<4.0	<40.0	<800	<800	NA*
Methyl-tert-butyl ether	70	<20.0	<1.0	<10.0	<200	<200	NA*
Naphthalene	300	<80.0	<4.0	<40.0	<800	<800	NA*
n-Butylbenzene	NL	<20.0	<1.0	<10.0	<200	<200	NA*
n-Propylbenzene	NL	<20.0	<1.0	<10.0	<200	<200	NA*
o-Xylene	NL	<20.0	<1.0	<10.0	<200	<200	NA*
p-Isopropyltoluene	NL	<20.0	<1.0	<10.0	<200	<200	NA*
sec-Butylbenzene	NL	<20.0	<1.0	<10.0	<200	<200	NA*
Styrene	NL	<20.0	<1.0	<10.0	<200	<200	NA*
tert-Butylbenzene	NL	<20.0	<1.0	<10.0	<200	<200	NA*
Tetrachloroethene	5	**20,400**	**2,240**	**806**	**34,600**	**20,300**	**152,000**
Tetrahydrofuran	100	<200	**10.9**	<100	<2000	<2000	NA*
Toluene	1000	<20.0	<1.0	<10.0	<200	<200	NA*
trans-1,2-Dichloroethene	100	<20.0	<1.0	<10.0	<200	<200	<500
trans-1,3-Dichloropropene	NL	<80.0	<4.0	<40.0	<800	<800	NA*
Trichloroethene	5	**22.8**	<1.0	<10.0	<200	<200	<500
Trichlorofluoromethane	2000	<20.0	<1.0	<10.0	<200	<200	NA*
Vinyl chloride	0.2	<8.0	<0.40	<4.0	<80.0	<80.0	<200
Xylene (Total)	10000	<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 02/16/12	DPE-4 11/21/11	DPE-4 08/28/11	DPE-4 05/19/11	DPE-4 03/01/11	DPE-4 12/22/10
1,1,1,2-Tetrachloroethane	70	<5.0	<5.0	<5.0	<2.0	<10.0	<10.0
1,1,1-Trichloroethane	9000	<5.0	<5.0	<5.0	<2.0	<10.0	<10.0
1,1,2,2-Tetrachloroethane	2	<5.0	<5.0	<5.0	<2.0	<10.0	<10.0
1,1,2-Trichloroethane	3	<5.0	<5.0	<5.0	<2.0	<10.0	<10.0
1,1,2-Trichlorotrifluoroethane	200000	54.4	**99.7**	**93.8**	**60.2**	**127**	**39.4**
1,1-Dichloroethane	70	<5.0	<5.0	<5.0	<2.0	<10.0	<10.0
1,1-Dichloroethene	6	<5.0	<5.0	<5.0	<2.0	<10.0	<10.0
1,1-Dichloropropene	NL	<5.0	<5.0	<5.0	<2.0	<10.0	<10.0
1,2,3-Trichlorobenzene	NL	<5.0	<5.0	<5.0	<2.0	<10.0	<10.0
1,2,3-Trichloropropane	40	<20.0	<20.0	<20.0	<8.0	<40.0	<10.0
1,2,4-Trichlorobenzene	NL	<5.0	<5.0	<5.0	<2.0	<10.0	<10.0
1,2,4-Trimethylbenzene	NL	<5.0	<5.0	<5.0	<2.0	<10.0	<10.0
1,2-Dibromo-3-chloropropane	NL	<20.0	<20.0	<20.0	<8.0	<40.0	<40.0
1,2-Dibromoethane (EDB)	.004	<5.0	<5.0	<5.0	<2.0	<10.0	<10.0
1,2-Dichlorobenzene	600	<5.0	<5.0	<5.0	<2.0	<10.0	<10.0
1,2-Dichloroethane	4	<5.0	<5.0	<5.0	<2.0	<10.0	<10.0
1,2-Dichloropropane	5	<20.0	<20.0	<20.0	<8.0	<10.0	<10.0
1,3,5-Trimethylbenzene	100	<5.0	<5.0	<5.0	<2.0	<10.0	<10.0
1,3-Dichlorobenzene	NL	<5.0	<5.0	<5.0	<2.0	<10.0	<10.0
1,3-Dichloropropane	NL	<5.0	<5.0	<5.0	<2.0	<10.0	<10.0
1,4-Dichlorobenzene	10	<5.0	<5.0	<5.0	<2.0	<10.0	<10.0
2,2-Dichloropropane	NL	<20.0	<20.0	<20.0	<8.0	<40.0	<40.0
2-Butanone (MEK)	4000	<20.0	<20.0	<20.0	<8.0	<40.0	<40.0
2-Chlorotoluene	NL	<5.0	<5.0	<5.0	<2.0	<10.0	<10.0
4-Chlorotoluene	NL	<5.0	<5.0	<5.0	<2.0	<10.0	<10.0
4-Methyl-2-pentanone (MIBK)	300	<20.0	<20.0	<20.0	<8.0	<40.0	<40.0
Acetone	700	<125	<125	<125	<50.0	<250	<100
Allyl chloride	30	<20.0	<20.0	<20.0	<8.0	<40.0	<40.0
Benzene	2	<5.0	<5.0	<5.0	<2.0	<10.0	<10.0
Bromobenzene	NL	<5.0	<5.0	<5.0	<2.0	<10.0	<10.0
Bromochloromethane	NL	<5.0	<5.0	<5.0	<2.0	<10.0	<10.0
Bromodichloromethane	6	<5.0	<5.0	<5.0	<2.0	<10.0	<10.0
Bromoform	40	<20.0	<20.0	<20.0	<8.0	<80.0	<80.0
Bromomethane	10	<20.0	<20.0	<20.0	<8.0	<100	<40.0
Carbon tetrachloride	3	<5.0	<5.0	<5.0	<2.0	<40.0	<40.0
Chlorobenzene	100	<5.0	<5.0	<5.0	<2.0	<10.0	<10.0
Chloroethane	300	<5.0	<5.0	<5.0	<2.0	<10.0	<10.0
Chloroform	30	<5.0	<5.0	<5.0	<2.0	<10.0	<10.0
Chloromethane	NL	<20.0	<20.0	<20.0	<8.0	<40.0	<40.0
cis-1,2-Dichloroethene	50	<5.0	<5.0	<5.0	<2.0	<10.0	<10.0
cis-1,3-Dichloropropene	NL	<20.0	<20.0	<20.0	<8.0	<40.0	<40.0
Dibromochloromethane	10	<5.0	<5.0	<5.0	<2.0	<10.0	<10.0
Dibromomethane	NL	<20.0	<20.0	<20.0	<8.0	<40.0	<40.0
Dichlorodifluoromethane	1000	<5.0	<5.0	<5.0	<2.0	<10.0	<10.0
Dichlorofluoromethane	NL	<5.0	<5.0	<5.0	<2.0	<10.0	<10.0
Diethyl ether (Ethyl ether)	1000	<20.0	<20.0	<20.0	<8.0	<40.0	<40.0
Ethylbenzene	700	<5.0	<5.0	<5.0	<2.0	<10.0	<10.0
Hexachloro-1,3-butadiene	1	<25.0	<25.0	<25.0	<10.0	<40.0	<40.0
Isopropylbenzene (Cumene)	300	<5.0	<5.0	<5.0	<2.0	<10.0	<10.0
m&p-Xylene	NL	<10.0	<10.0	<10.0	<4.0	<20.0	<20.0
Methylene Chloride	5	<20.0	<20.0	<20.0	<8.0	<40.0	<40.0
Methyl-tert-butyl ether	70	<5.0	<5.0	<5.0	<2.0	<10.0	<10.0
Naphthalene	300	<20.0	<20.0	<20.0	<8.0	<40.0	<40.0
n-Butylbenzene	NL	<5.0	<5.0	<5.0	<2.0	<10.0	<10.0
n-Propylbenzene	NL	<5.0	<5.0	<5.0	<2.0	<10.0	<10.0
o-Xylene	NL	<5.0	<5.0	<5.0	<2.0	<10.0	<10.0
p-Isopropyltoluene	NL	<5.0	<5.0	<5.0	<2.0	<10.0	<10.0
sec-Butylbenzene	NL	<5.0	<5.0	<5.0	<2.0	<10.0	<10.0
Styrene	NL	<5.0	<5.0	<5.0	<2.0	<10.0	<10.0
tert-Butylbenzene	NL	<5.0	<5.0	<5.0	<2.0	<10.0	<10.0
Tetrachloroethene	5	**830**	**763**	**771**	**367**	**1,160**	**1,100**
Tetrahydrofuran	100	<50.0	<50.0	<50.0	<20.0	<100	<100
Toluene	1000	<5.0	<5.0	<5.0	<2.0	<10.0	<10.0
trans-1,2-Dichloroethene	100	<5.0	<20.0	<20.0	<8.0	<10.0	<10.0
trans-1,3-Dichloropropene	NL	<20.0	<20.0	<20.0	<8.0	<40.0	<40.0
Trichloroethene	5	<5.0	<5.0	<5.0	<2.0	<10.0	<10.0
Trichlorofluoromethane	2000	<5.0	<5.0	<5.0	<2.0	<10.0	<10.0
Vinyl chloride	0.2	<2.0	<2.0	<2.0	<0.80	<4.0	<4.0
Xylene (Total)	10000	<15.0	<15.0	<15.0	<6.0	<30.0	<30.0

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

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

TABLE 10

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

Sample ID Collected Date and Time	MDH Health Risk Limits 5/09	DPE-4 08/18/10	DPE-4 05/13/10	DPE-4 02/22/10	DPE-4 11/17/09	DPE-4 09/28/09	DPE-4 12/10/08
1,1,1,2-Tetrachloroethane	70	<5.0	<1.0	<5.0	<50.0	<50.0	NA*
1,1,1-Trichloroethane	9000	<5.0	<1.0	<5.0	<50.0	<50.0	NA*
1,1,2,2-Tetrachloroethane	2	<5.0	<1.0	<5.0	<50.0	<50.0	NA*
1,1,2-Trichloroethane	3	<5.0	<1.0	<5.0	<50.0	<50.0	NA*
1,1,2-Trichlorotrifluoroethane	200000	**181**	**48.1**	**41.9**	**464**	**339**	NA*
1,1-Dichloroethane	70	<5.0	<1.0	<5.0	<50.0	<50.0	NA*
1,1-Dichloroethene	6	<5.0	<1.0	<5.0	<50.0	<50.0	<500
1,1-Dichloropropene	NL	<5.0	<1.0	<5.0	<50.0	<50.0	NA*
1,2,3-Trichlorobenzene	NL	<5.0	<1.0	<5.0	<50.0	<50.0	NA*
1,2,3-Trichloropropane	40	<5.0	<1.0	<5.0	<50.0	<50.0	NA*
1,2,4-Trichlorobenzene	NL	<5.0	<1.0	<5.0	<50.0	<50.0	NA*
1,2,4-Trimethylbenzene	NL	<5.0	<1.0	<5.0	<50.0	<50.0	NA*
1,2-Dibromo-3-chloropropane	NL	<20.0	<4.0	<20.0	<200	<200	NA*
1,2-Dibromoethane (EDB)	.004	<5.0	<1.0	<5.0	<50.0	<50.0	NA*
1,2-Dichlorobenzene	600	<5.0	<1.0	<5.0	<50.0	<50.0	NA*
1,2-Dichloroethane	4	<5.0	<1.0	<5.0	<50.0	<50.0	NA*
1,2-Dichloropropane	5	<5.0	<1.0	<5.0	<50.0	<50.0	NA*
1,3,5-Trimethylbenzene	100	<5.0	<1.0	<5.0	<50.0	<50.0	NA*
1,3-Dichlorobenzene	NL	<5.0	<1.0	<5.0	<50.0	<50.0	NA*
1,3-Dichloropropane	NL	<5.0	<1.0	<5.0	<50.0	<50.0	NA*
1,4-Dichlorobenzene	10	<5.0	<1.0	<5.0	<50.0	<50.0	NA*
2,2-Dichloropropane	NL	<20.0	<4.0	<5.0	<200	<50.0	NA*
2-Butanone (MEK)	4000	<20.0	<4.0	<20.0	<200	<200	NA*
2-Chlorotoluene	NL	<5.0	<1.0	<5.0	<50.0	<50.0	NA*
4-Chlorotoluene	NL	<5.0	<1.0	<5.0	<50.0	<50.0	NA*
4-Methyl-2-pentanone (MIBK)	300	<20.0	<4.0	<20.0	<200	<200	NA*
Acetone	700	<50.0	<10.0	<50.0	<500	<500	NA*
Allyl chloride	30	<20.0	<4.0	<20.0	<200	<200	NA*
Benzene	2	<5.0	<1.0	<5.0	<50.0	<50.0	NA*
Bromobenzene	NL	<5.0	<1.0	<5.0	<50.0	<50.0	NA*
Bromochloromethane	NL	<5.0	<1.0	<5.0	<50.0	<50.0	NA*
Bromodichloromethane	6	<5.0	<1.0	<5.0	<50.0	<50.0	NA*
Bromoform	40	<40.0	<8.0	<40.0	<400	<400	NA*
Bromomethane	10	<20.0	<4.0	<20.0	<200	<200	NA*
Carbon tetrachloride	3	<20.0	<4.0	<5.0	<200	<50.0	NA*
Chlorobenzene	100	<5.0	<1.0	<5.0	<50.0	<50.0	NA*
Chloroethane	300	<5.0	<1.0	<5.0	<50.0	<50.0	NA*
Chloroform	30	<5.0	<1.0	<5.0	<50.0	<50.0	NA*
Chloromethane	NL	<20.0	<4.0	<20.0	<200	<200	NA*
cis-1,2-Dichloroethene	50	**20.7**	**1.1**	<5.0	<50.0	<50.0	<500
cis-1,3-Dichloropropene	NL	<20.0	<4.0	<20.0	<200	<200	NA*
Dibromochloromethane	10	<5.0	<1.0	<5.0	<50.0	<50.0	NA*
Dibromomethane	NL	<20.0	<4.0	<5.0	<50.0	<50.0	NA*
Dichlorodifluoromethane	1000	<5.0	<1.0	<5.0	<50.0	<50.0	NA*
Dichlorofluoromethane	NL	<5.0	<1.0	<5.0	<50.0	<50.0	NA*
Diethyl ether (Ethyl ether)	1000	<20.0	<4.0	<20.0	<200	<200	NA*
Ethylbenzene	700	<5.0	<1.0	<5.0	<50.0	<50.0	NA*
Hexachloro-1,3-butadiene	1	<20.0	<4.0	<20.0	<200	<200	NA*
Isopropylbenzene (Cumene)	300	<5.0	<1.0	<5.0	<50.0	<50.0	NA*
m&p-Xylene	NL	<10.0	<2.0	<10.0	<100	<100	NA*
Methylene Chloride	5	<20.0	<4.0	<20.0	<200	<200	NA*
Methyl-tert-butyl ether	70	<5.0	<1.0	<5.0	<50.0	<50.0	NA*
Naphthalene	300	<20.0	<4.0	<20.0	<200	<200	NA*
n-Butylbenzene	NL	<5.0	<1.0	<5.0	<50.0	<50.0	NA*
n-Propylbenzene	NL	<5.0	<1.0	<5.0	<50.0	<50.0	NA*
o-Xylene	NL	<5.0	<1.0	<5.0	<50.0	<50.0	NA*
p-Isopropyltoluene	NL	<5.0	<1.0	<5.0	<50.0	<50.0	NA*
sec-Butylbenzene	NL	<5.0	<1.0	<5.0	<50.0	<50.0	NA*
Styrene	NL	<5.0	<1.0	<5.0	<50.0	<50.0	NA*
tert-Butylbenzene	NL	<5.0	<1.0	<5.0	<50.0	<50.0	NA*
Tetrachloroethene	5	**2,600**	**357**	**429**	**5,040**	**7,340**	**35,600**
Tetrahydrofuran	100	<50.0	<10.0	<50.0	<500	<500	NA*
Toluene	1000	<5.0	<1.0	<5.0	<50.0	<50.0	NA*
trans-1,2-Dichloroethene	100	<5.0	<1.0	<5.0	<50.0	<50.0	<500
trans-1,3-Dichloropropene	NL	<20.0	<4.0	<20.0	<200	<200	NA*
Trichloroethene	5	**7.1**	<1.0	<5.0	<50.0	<50.0	<500
Trichlorofluoromethane	2000	<5.0	<1.0	<5.0	<50.0	<50.0	NA*
Vinyl chloride	0.2	<2.0	<0.40	<2.0	<20.0	<20.0	<200
Xylene (Total)	10000	<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 02/16/12	DPE-5 11/21/11	DPE-5 08/28/11	DPE-5 05/19/11	DPE-5 03/01/11	DPE-5 12/22/10
1,1,1,2-Tetrachloroethane	70	<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
1,1,2,2-Tetrachloroethane	2	<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
1,1,2-Trichlorotrifluoroethane	200000	**2.2**	**3.0**	<1.0	**5.2**	**13.9**	<1.0
1,1-Dichloroethane	70	<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
1,1-Dichloropropene	NL	<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
1,2,3-Trichloropropane	40	<4.0	<4.0	<4.0	<4.0	<4.0	<1.0
1,2,4-Trichlorobenzene	NL	<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
1,2-Dibromo-3-chloropropane	NL	<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
1,2-Dichlorobenzene	600	<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
1,2-Dichloropropane	5	<4.0	<4.0	<4.0	<4.0	<1.0	<1.0
1,3,5-Trimethylbenzene	100	<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
1,3-Dichloropropane	NL	<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
2,2-Dichloropropane	NL	<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
2-Chlorotoluene	NL	<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
4-Methyl-2-pentanone (MIBK)	300	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Acetone	700	<25.0	<25.0	<25.0	<25.0	<25.0	<10.0
Allyl chloride	30	<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
Bromobenzene	NL	<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
Bromodichloromethane	6	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Bromoform	40	<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
Carbon tetrachloride	3	<1.0	<1.0	<1.0	<1.0	<4.0	<4.0
Chlorobenzene	100	<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
Chloroform	30	<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
cis-1,2-Dichloroethene	50	<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
Dibromochloromethane	10	<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
Dichlorodifluoromethane	1000	<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
Diethyl ether (Ethyl ether)	1000	<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
Hexachloro-1,3-butadiene	1	<5.0	<5.0	<5.0	<5.0	<4.0	<4.0
Isopropylbenzene (Cumene)	300	<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
Methylene Chloride	5	<4.0	<4.0	<4.0	<4.0	**6.2**	<4.0
Methyl-tert-butyl ether	70	<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
n-Butylbenzene	NL	<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
o-Xylene	NL	<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
sec-Butylbenzene	NL	<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
tert-Butylbenzene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Tetrachloroethene	5	**69.5**	**51.2**	<1.0	**67.2**	**339**	**21.6**
Tetrahydrofuran	100	<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
trans-1,2-Dichloroethene	100	<1.0	<4.0	<4.0	<4.0	<1.0	<1.0
trans-1,3-Dichloropropene	NL	<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
Trichlorofluoromethane	2000	<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
Xylene (Total)	10000	<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 08/18/10	DPE-5 05/13/10	DPE-5 02/22/10	DPE-5 11/17/09	DPE-5 09/24/09	DPE-5 12/10/08
1,1,1,2-Tetrachloroethane	70	<1.0	<1.0	<5.0	<10.0	<10.0	NA*
1,1,1-Trichloroethane	9000	<1.0	<1.0	<5.0	<10.0	<10.0	NA*
1,1,2,2-Tetrachloroethane	2	<1.0	<1.0	<5.0	<10.0	<10.0	NA*
1,1,2-Trichloroethane	3	<1.0	<1.0	<5.0	<10.0	<10.0	NA*
1,1,2-Trichlorotrifluoroethane	200000	**11.5**	**16.9**	**19.4**	**498**	**37.9**	NA*
1,1-Dichloroethane	70	<1.0	<1.0	<5.0	<10.0	<10.0	NA*
1,1-Dichloroethene	6	<1.0	<1.0	<5.0	<10.0	<10.0	<10.0
1,1-Dichloropropene	NL	<1.0	<1.0	<5.0	<10.0	<10.0	NA*
1,2,3-Trichlorobenzene	NL	<1.0	<1.0	<5.0	<10.0	<10.0	NA*
1,2,3-Trichloropropane	40	<1.0	<1.0	<5.0	<10.0	<10.0	NA*
1,2,4-Trichlorobenzene	NL	<1.0	<1.0	<5.0	<10.0	<10.0	NA*
1,2,4-Trimethylbenzene	NL	<1.0	<1.0	<5.0	<10.0	<10.0	NA*
1,2-Dibromo-3-chloropropane	NL	<4.0	<4.0	<20.0	<40.0	<40.0	NA*
1,2-Dibromoethane (EDB)	.004	<1.0	<1.0	<5.0	<10.0	<10.0	NA*
1,2-Dichlorobenzene	600	<1.0	<1.0	<5.0	<10.0	<10.0	NA*
1,2-Dichloroethane	4	<1.0	<1.0	<5.0	<10.0	<10.0	NA*
1,2-Dichloropropane	5	<1.0	<1.0	<5.0	<10.0	<10.0	NA*
1,3,5-Trimethylbenzene	100	<1.0	<1.0	<5.0	<10.0	<10.0	NA*
1,3-Dichlorobenzene	NL	<1.0	<1.0	<5.0	<10.0	<10.0	NA*
1,3-Dichloropropane	NL	<1.0	<1.0	<5.0	<10.0	<10.0	NA*
1,4-Dichlorobenzene	10	<1.0	<1.0	<5.0	<10.0	<10.0	NA*
2,2-Dichloropropane	NL	<4.0	<4.0	<5.0	<40.0	<10.0	NA*
2-Butanone (MEK)	4000	<4.0	<4.0	<20.0	<40.0	<40.0	NA*
2-Chlorotoluene	NL	<1.0	<1.0	<5.0	<10.0	<10.0	NA*
4-Chlorotoluene	NL	<1.0	<1.0	<5.0	<10.0	<10.0	NA*
4-Methyl-2-pentanone (MIBK)	300	<4.0	<4.0	<20.0	<40.0	<40.0	NA*
Acetone	700	<10.0	<10.0	<50.0	<100	<100	NA*
Allyl chloride	30	<4.0	<4.0	<20.0	<40.0	<40.0	NA*
Benzene	2	<1.0	<1.0	<5.0	<10.0	<10.0	NA*
Bromobenzene	NL	<1.0	<1.0	<5.0	<10.0	<10.0	NA*
Bromochloromethane	NL	<1.0	<1.0	<5.0	<10.0	<10.0	NA*
Bromodichloromethane	6	<1.0	<1.0	<5.0	<10.0	<10.0	NA*
Bromoform	40	<8.0	<8.0	<40.0	<80.0	<80.0	NA*
Bromomethane	10	<4.0	<4.0	<20.0	<40.0	<40.0	NA*
Carbon tetrachloride	3	<4.0	<4.0	<5.0	<40.0	<10.0	NA*
Chlorobenzene	100	<1.0	<1.0	<5.0	<10.0	<10.0	NA*
Chloroethane	300	<1.0	<1.0	<5.0	<10.0	<10.0	NA*
Chloroform	30	<1.0	<1.0	<5.0	<10.0	<10.0	NA*
Chloromethane	NL	<4.0	<4.0	<20.0	<40.0	<40.0	NA*
cis-1,2-Dichloroethene	50	**1.3**	**1.8**	<5.0	<10.0	<10.0	<10.0
cis-1,3-Dichloropropene	NL	<4.0	<4.0	<20.0	<40.0	<40.0	NA*
Dibromochloromethane	10	<1.0	<1.0	<5.0	<10.0	<10.0	NA*
Dibromomethane	NL	<4.0	<4.0	<5.0	<10.0	<10.0	NA*
Dichlorodifluoromethane	1000	<1.0	<1.0	<5.0	<10.0	<10.0	NA*
Dichlorofluoromethane	NL	<1.0	<1.0	<5.0	<10.0	<10.0	NA*
Diethyl ether (Ethyl ether)	1000	<4.0	<4.0	<20.0	<40.0	<40.0	NA*
Ethylbenzene	700	<1.0	<1.0	<5.0	<10.0	<10.0	NA*
Hexachloro-1,3-butadiene	1	<4.0	<4.0	<20.0	<40.0	<40.0	NA*
Isopropylbenzene (Cumene)	300	<1.0	<1.0	<5.0	<10.0	<10.0	NA*
m&p-Xylene	NL	<2.0	<2.0	<10.0	<20.0	<20.0	NA*
Methylene Chloride	5	<4.0	<4.0	<20.0	<40.0	<40.0	NA*
Methyl-tert-butyl ether	70	<1.0	<1.0	<5.0	<10.0	<10.0	NA*
Naphthalene	300	<4.0	<4.0	<20.0	<40.0	<40.0	NA*
n-Butylbenzene	NL	<1.0	<1.0	<5.0	<10.0	<10.0	NA*
n-Propylbenzene	NL	<1.0	<1.0	<5.0	<10.0	<10.0	NA*
o-Xylene	NL	<1.0	<1.0	<5.0	<10.0	<10.0	NA*
p-Isopropyltoluene	NL	<1.0	<1.0	<5.0	<10.0	<10.0	NA*
sec-Butylbenzene	NL	<1.0	<1.0	<5.0	<10.0	<10.0	NA*
Styrene	NL	<1.0	<1.0	<5.0	<10.0	<10.0	NA*
tert-Butylbenzene	NL	<1.0	<1.0	<5.0	<10.0	<10.0	NA*
Tetrachloroethene	5	**124**	**205**	**486**	**1,450**	**875**	**1,340**
Tetrahydrofuran	100	<10.0	<10.0	<50.0	<100	<100	NA*
Toluene	1000	<1.0	<1.0	<5.0	<10.0	<10.0	NA*
trans-1,2-Dichloroethene	100	<1.0	<1.0	<5.0	<10.0	<10.0	<10.0
trans-1,3-Dichloropropene	NL	<4.0	<4.0	<20.0	<40.0	<40.0	NA*
Trichloroethene	5	<1.0	<1.0	<5.0	<10.0	<10.0	<10.0
Trichlorofluoromethane	2000	<1.0	<1.0	<5.0	<10.0	<10.0	NA*
Vinyl chloride	0.2	<0.40	<0.40	<2.0	<4.0	<4.0	<4.0
Xylene (Total)	10000	<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 02/16/12	DPE-6 11/21/11	DPE-6 08/28/11	DPE-6 05/19/11	DPE-6 03/01/11	DPE-6 12/22/10
1,1,1,2-Tetrachloroethane	70	<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
1,1,2,2-Tetrachloroethane	2	<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
1,1,2-Trichlorotrifluoroethane	200000	<1.0	<1.0	<1.0	<1.0	<1.0	**1.5**
1,1-Dichloroethane	70	<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
1,1-Dichloropropene	NL	<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
1,2,3-Trichloropropane	40	<4.0	<4.0	<4.0	<4.0	<4.0	<1.0
1,2,4-Trichlorobenzene	NL	<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
1,2-Dibromo-3-chloropropane	NL	<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
1,2-Dichlorobenzene	600	<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
1,2-Dichloropropane	5	<4.0	<4.0	<4.0	<4.0	<1.0	<1.0
1,3,5-Trimethylbenzene	100	<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
1,3-Dichloropropane	NL	<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
2,2-Dichloropropane	NL	<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
2-Chlorotoluene	NL	<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
4-Methyl-2-pentanone (MIBK)	300	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Acetone	700	<25.0	<25.0	<25.0	<25.0	<25.0	<10.0
Allyl chloride	30	<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
Bromobenzene	NL	<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
Bromodichloromethane	6	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Bromoform	40	<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
Carbon tetrachloride	3	<1.0	<1.0	<1.0	<1.0	<4.0	<4.0
Chlorobenzene	100	<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
Chloroform	30	<1.0	<1.0	<1.0	**1.4**	**1.1**	**1.2**
Chloromethane	NL	<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
cis-1,3-Dichloropropene	NL	<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
Dibromomethane	NL	<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
Dichlorofluoromethane	NL	<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
Ethylbenzene	700	<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	<4.0	<4.0
Isopropylbenzene (Cumene)	300	<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
Methylene Chloride	5	<4.0	<4.0	<4.0	<4.0	**7.3**	<4.0
Methyl-tert-butyl ether	70	<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
n-Butylbenzene	NL	<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
o-Xylene	NL	<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
sec-Butylbenzene	NL	<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
tert-Butylbenzene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Tetrachloroethene	5	**44.8**	**1.9**	**7.7**	**23.4**	**3.9**	**77.1**
Tetrahydrofuran	100	<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
trans-1,2-Dichloroethene	100	<1.0	<4.0	<4.0	<4.0	<1.0	<1.0
trans-1,3-Dichloropropene	NL	<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
Trichlorofluoromethane	2000	<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
Xylene (Total)	10000	<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 08/18/10	DPE-6 05/13/10	DPE-6 02/22/10	DPE-6 11/17/09	DPE-6 09/24/09	DPE-6 12/10/08
1,1,1,2-Tetrachloroethane	70	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
1,1,1-Trichloroethane	9000	<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	NA*
1,1,2-Trichloroethane	3	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
1,1,2-Trichlorotrifluoroethane	200000	<1.0	<1.0	<1.0	<1.0	**3.5**	NA*
1,1-Dichloroethane	70	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
1,1-Dichloroethene	6	<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	NA*
1,2,3-Trichlorobenzene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
1,2,3-Trichloropropane	40	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
1,2,4-Trichlorobenzene	NL	<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	NA*
1,2-Dibromo-3-chloropropane	NL	<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	NA*
1,2-Dichlorobenzene	600	<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	NA*
1,2-Dichloropropane	5	<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	NA*
1,3-Dichlorobenzene	NL	<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	NA*
1,4-Dichlorobenzene	10	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
2,2-Dichloropropane	NL	<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	NA*
2-Chlorotoluene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
4-Chlorotoluene	NL	<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	NA*
Acetone	700	<10.0	<10.0	<10.0	<10.0	<10.0	NA*
Allyl chloride	30	<4.0	<4.0	<4.0	<4.0	<4.0	NA*
Benzene	2	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
Bromobenzene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
Bromochloromethane	NL	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
Bromodichloromethane	6	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
Bromoform	40	<8.0	<8.0	<8.0	<8.0	<8.0	NA*
Bromomethane	10	<4.0	<4.0	<4.0	<4.0	<4.0	NA*
Carbon tetrachloride	3	<4.0	<4.0	<1.0	<4.0	<1.0	NA*
Chlorobenzene	100	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
Chloroethane	300	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
Chloroform	30	**1.0**	**1.1**	**1.6**	**1.6**	<1.0	NA*
Chloromethane	NL	<4.0	<4.0	<4.0	<4.0	<4.0	NA*
cis-1,2-Dichloroethene	50	<1.0	<1.0	<1.0	**1.5**	<1.0	<2.0
cis-1,3-Dichloropropene	NL	<4.0	<4.0	<4.0	<4.0	<4.0	NA*
Dibromochloromethane	10	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
Dibromomethane	NL	<4.0	<4.0	<1.0	<1.0	<1.0	NA*
Dichlorodifluoromethane	1000	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
Dichlorofluoromethane	NL	<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	NA*
Ethylbenzene	700	<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	NA*
Isopropylbenzene (Cumene)	300	<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	NA*
Methylene Chloride	5	<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	NA*
Naphthalene	300	<4.0	<4.0	<4.0	<4.0	<4.0	NA*
n-Butylbenzene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
n-Propylbenzene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
o-Xylene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
p-Isopropyltoluene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
sec-Butylbenzene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
Styrene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
tert-Butylbenzene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
Tetrachloroethene	5	**21.7**	**14.6**	**57.8**	**104**	**79.3**	**188**
Tetrahydrofuran	100	<10.0	<10.0	<10.0	<10.0	<10.0	NA*
Toluene	1000	<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	<2.0
trans-1,3-Dichloropropene	NL	<4.0	<4.0	<4.0	<4.0	<4.0	NA*
Trichloroethene	5	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0
Trichlorofluoromethane	2000	<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	<0.80
Xylene (Total)	10000	<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 02/16/12	DPE-7 11/21/11	DPE-7 08/28/11	DPE-7 05/19/11	DPE-7 03/01/11	DPE-7 12/22/10
1,1,1,2-Tetrachloroethane	70	<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
1,1,2,2-Tetrachloroethane	2	<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
1,1,2-Trichlorotrifluoroethane	200000	<1.0	<1.0	**3.8**	**1.8**	<1.0	**2.2**
1,1-Dichloroethane	70	<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
1,1-Dichloropropene	NL	<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
1,2,3-Trichloropropane	40	<4.0	<4.0	<4.0	<4.0	<4.0	<1.0
1,2,4-Trichlorobenzene	NL	<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
1,2-Dibromo-3-chloropropane	NL	<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
1,2-Dichlorobenzene	600	<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
1,2-Dichloropropane	5	<4.0	<4.0	<4.0	<4.0	<1.0	<1.0
1,3,5-Trimethylbenzene	100	<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
1,3-Dichloropropane	NL	<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
2,2-Dichloropropane	NL	<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
2-Chlorotoluene	NL	<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
4-Methyl-2-pentanone (MIBK)	300	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Acetone	700	<25.0	<25.0	<25.0	<25.0	<25.0	<10.0
Allyl chloride	30	<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
Bromobenzene	NL	<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
Bromodichloromethane	6	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Bromoform	40	<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
Carbon tetrachloride	3	<1.0	<1.0	<1.0	<1.0	<4.0	<4.0
Chlorobenzene	100	<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
Chloroform	30	<1.0	<1.0	**1.2**	**2.3**	**2.3**	<1.0
Chloromethane	NL	<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
cis-1,3-Dichloropropene	NL	<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
Dibromomethane	NL	<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
Dichlorofluoromethane	NL	<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
Ethylbenzene	700	<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	<4.0	<4.0
Isopropylbenzene (Cumene)	300	<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
Methylene Chloride	5	<4.0	<4.0	<4.0	<4.0	**6.6**	<4.0
Methyl-tert-butyl ether	70	<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
n-Butylbenzene	NL	<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
o-Xylene	NL	<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
sec-Butylbenzene	NL	<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
tert-Butylbenzene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Tetrachloroethene	5	**27.8**	<1.0	**26.9**	**15.9**	**7.1**	**23.2**
Tetrahydrofuran	100	<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
trans-1,2-Dichloroethene	100	<1.0	<4.0	<4.0	<4.0	<1.0	<1.0
trans-1,3-Dichloropropene	NL	<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
Trichlorofluoromethane	2000	<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
Xylene (Total)	10000	<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 08/18/10	DPE-7 05/13/10	DPE-7 02/22/10	DPE-7 11/17/09	DPE-7 09/24/09	DPE-7 12/10/08
1,1,1,2-Tetrachloroethane	70	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
1,1,1-Trichloroethane	9000	<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	NA*
1,1,2-Trichloroethane	3	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
1,1,2-Trichlorotrifluoroethane	200000	**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	NA*
1,1-Dichloroethene	6	<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	NA*
1,2,3-Trichlorobenzene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
1,2,3-Trichloropropane	40	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
1,2,4-Trichlorobenzene	NL	<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	NA*
1,2-Dibromo-3-chloropropane	NL	<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	NA*
1,2-Dichlorobenzene	600	<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	NA*
1,2-Dichloropropane	5	<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	NA*
1,3-Dichlorobenzene	NL	<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	NA*
1,4-Dichlorobenzene	10	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
2,2-Dichloropropane	NL	<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	NA*
2-Chlorotoluene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
4-Chlorotoluene	NL	<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	NA*
Acetone	700	<10.0	<10.0	<10.0	<10.0	<10.0	NA*
Allyl chloride	30	<4.0	<4.0	<4.0	<4.0	<4.0	NA*
Benzene	2	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
Bromobenzene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
Bromochloromethane	NL	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
Bromodichloromethane	6	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
Bromoform	40	<8.0	<8.0	<8.0	<8.0	<8.0	NA*
Bromomethane	10	<4.0	<4.0	<4.0	<4.0	<4.0	NA*
Carbon tetrachloride	3	<4.0	<4.0	<1.0	<4.0	<1.0	NA*
Chlorobenzene	100	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
Chloroethane	300	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
Chloroform	30	**1.3**	**1.3**	**1.2**	**1.1**	**1.3**	NA*
Chloromethane	NL	<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
cis-1,3-Dichloropropene	NL	<4.0	<4.0	<4.0	<4.0	<4.0	NA*
Dibromochloromethane	10	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
Dibromomethane	NL	<4.0	<4.0	<1.0	<1.0	<1.0	NA*
Dichlorodifluoromethane	1000	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
Dichlorofluoromethane	NL	<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	NA*
Ethylbenzene	700	<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	NA*
Isopropylbenzene (Cumene)	300	<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	NA*
Methylene Chloride	5	<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	NA*
Naphthalene	300	<4.0	<4.0	<4.0	<4.0	<4.0	NA*
n-Butylbenzene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
n-Propylbenzene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
o-Xylene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
p-Isopropyltoluene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
sec-Butylbenzene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
Styrene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
tert-Butylbenzene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
Tetrachloroethene	5	**189**	**25.7**	**7.3**	**55.2**	**5.2**	**22.3**
Tetrahydrofuran	100	<10.0	<10.0	<10.0	<10.0	<10.0	NA*
Toluene	1000	<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
trans-1,3-Dichloropropene	NL	<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
Trichlorofluoromethane	2000	<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
Xylene (Total)	10000	<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 02/16/12	DPE-8 11/21/11	DPE-8 08/28/11	DPE-8 05/19/11	DPE-8 03/01/11	DPE-8 12/22/10
1,1,1,2-Tetrachloroethane	70	NS	<5.0	<2.0	<5.0	<2.0	<1.0
1,1,1-Trichloroethane	9000	NS	<5.0	<2.0	<5.0	<2.0	<1.0
1,1,2,2-Tetrachloroethane	2	NS	<5.0	<2.0	<5.0	<2.0	<1.0
1,1,2-Trichloroethane	3	NS	<5.0	<2.0	<5.0	<2.0	<1.0
1,1,2-Trichlorotrifluoroethane	200000	NS	**62.0**	**32.4**	**77.9**	**48.7**	**33.5**
1,1-Dichloroethane	70	NS	<5.0	<2.0	<5.0	<2.0	<1.0
1,1-Dichloroethene	6	NS	<5.0	<2.0	<5.0	<2.0	<1.0
1,1-Dichloropropene	NL	NS	<5.0	<2.0	<5.0	<2.0	<1.0
1,2,3-Trichlorobenzene	NL	NS	<5.0	<2.0	<5.0	<2.0	<1.0
1,2,3-Trichloropropane	40	NS	<20.0	<8.0	<20.0	<8.0	<1.0
1,2,4-Trichlorobenzene	NL	NS	<5.0	<2.0	<5.0	<2.0	<1.0
1,2,4-Trimethylbenzene	NL	NS	<5.0	<2.0	<5.0	<2.0	<1.0
1,2-Dibromo-3-chloropropane	NL	NS	<20.0	<8.0	<20.0	<8.0	<4.0
1,2-Dibromoethane (EDB)	.004	NS	<5.0	<2.0	<5.0	<2.0	<1.0
1,2-Dichlorobenzene	600	NS	<5.0	<2.0	<5.0	<2.0	<1.0
1,2-Dichloroethane	4	NS	<5.0	<2.0	<5.0	<2.0	<1.0
1,2-Dichloropropane	5	NS	<20.0	<8.0	<20.0	<2.0	<1.0
1,3,5-Trimethylbenzene	100	NS	<5.0	<2.0	<5.0	<2.0	<1.0
1,3-Dichlorobenzene	NL	NS	<5.0	<2.0	<5.0	<2.0	<1.0
1,3-Dichloropropane	NL	NS	<5.0	<2.0	<5.0	<2.0	<1.0
1,4-Dichlorobenzene	10	NS	<5.0	<2.0	<5.0	<2.0	<1.0
2,2-Dichloropropane	NL	NS	<20.0	<8.0	<20.0	<8.0	<4.0
2-Butanone (MEK)	4000	NS	<20.0	<8.0	<20.0	<8.0	<4.0
2-Chlorotoluene	NL	NS	<5.0	<2.0	<5.0	<2.0	<1.0
4-Chlorotoluene	NL	NS	<5.0	<2.0	<5.0	<2.0	<1.0
4-Methyl-2-pentanone (MIBK)	300	NS	<20.0	<8.0	<20.0	<8.0	<4.0
Acetone	700	NS	<125	<50.0	<125	<50.0	<10.0
Allyl chloride	30	NS	<20.0	<8.0	<20.0	<8.0	<4.0
Benzene	2	NS	<5.0	<2.0	<5.0	<2.0	<1.0
Bromobenzene	NL	NS	<5.0	<2.0	<5.0	<2.0	<1.0
Bromochloromethane	NL	NS	<5.0	<2.0	<5.0	<2.0	<1.0
Bromodichloromethane	6	NS	<5.0	<2.0	<5.0	<2.0	<1.0
Bromoform	40	NS	<20.0	<8.0	<20.0	<16.0	<8.0
Bromomethane	10	NS	<20.0	<8.0	<20.0	<8.0	<4.0
Carbon tetrachloride	3	NS	<5.0	<2.0	<5.0	<8.0	<4.0
Chlorobenzene	100	NS	<5.0	<2.0	<5.0	<2.0	<1.0
Chloroethane	300	NS	<5.0	<2.0	<5.0	<2.0	<1.0
Chloroform	30	NS	<5.0	<2.0	<5.0	<2.0	<1.0
Chloromethane	NL	NS	<20.0	<8.0	<20.0	<8.0	<4.0
cis-1,2-Dichloroethene	50	NS	<5.0	<2.0	<5.0	<2.0	<1.0
cis-1,3-Dichloropropene	NL	NS	<20.0	<8.0	<20.0	<8.0	<4.0
Dibromochloromethane	10	NS	<5.0	<2.0	<5.0	<2.0	<1.0
Dibromomethane	NL	NS	<20.0	<8.0	<20.0	<8.0	<4.0
Dichlorodifluoromethane	1000	NS	<5.0	<2.0	<5.0	<2.0	<1.0
Dichlorofluoromethane	NL	NS	<5.0	<2.0	<5.0	<2.0	<1.0
Diethyl ether (Ethyl ether)	1000	NS	<20.0	<8.0	<20.0	<8.0	<4.0
Ethylbenzene	700	NS	<5.0	<2.0	<5.0	<2.0	<1.0
Hexachloro-1,3-butadiene	1	NS	<25.0	<10.0	<25.0	<8.0	<4.0
Isopropylbenzene (Cumene)	300	NS	<5.0	<2.0	<5.0	<2.0	<1.0
m&p-Xylene	NL	NS	<10.0	<4.0	<10.0	<4.0	<2.0
Methylene Chloride	5	NS	<20.0	<8.0	<20.0	<8.0	<4.0
Methyl-tert-butyl ether	70	NS	<5.0	<2.0	<5.0	<2.0	<1.0
Naphthalene	300	NS	<20.0	<8.0	<20.0	<8.0	<4.0
n-Butylbenzene	NL	NS	<5.0	<2.0	<5.0	<2.0	<1.0
n-Propylbenzene	NL	NS	<5.0	<2.0	<5.0	<2.0	<1.0
o-Xylene	NL	NS	<5.0	<2.0	<5.0	<2.0	<1.0
p-Isopropyltoluene	NL	NS	<5.0	<2.0	<5.0	<2.0	<1.0
sec-Butylbenzene	NL	NS	<5.0	<2.0	<5.0	<2.0	<1.0
Styrene	NL	NS	<5.0	<2.0	<5.0	<2.0	<1.0
tert-Butylbenzene	NL	NS	<5.0	<2.0	<5.0	<2.0	<1.0
Tetrachloroethene	5	NS	**389**	**700**	**698**	**415**	**262**
Tetrahydrofuran	100	NS	<50.0	<20.0	<50.0	<20.0	<10.0
Toluene	1000	NS	<5.0	<2.0	<5.0	<2.0	<1.0
trans-1,2-Dichloroethene	100	NS	<20.0	<8.0	<20.0	<2.0	<1.0
trans-1,3-Dichloropropene	NL	NS	<20.0	<8.0	<20.0	<8.0	<4.0
Trichloroethene	5	NS	<5.0	<2.0	<5.0	<2.0	<1.0
Trichlorofluoromethane	2000	NS	<5.0	<2.0	<5.0	<2.0	<1.0
Vinyl chloride	0.2	NS	<2.0	<0.80	<2.0	<0.80	<0.40
Xylene (Total)	10000	NS	<15.0	<6.0	<15.0	<6.0	<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-8 08/18/10	DPE-8 05/13/10	DPE-8 02/22/10	DPE-8 11/17/09	DPE-8 09/24/09	DPE-8 12/10/08
1,1,1,2-Tetrachloroethane	70	<1.0	<1.0	<1.0	<10.0	<2.0	NA*
1,1,1-Trichloroethane	9000	<1.0	<1.0	<1.0	<10.0	<2.0	NA*
1,1,2,2-Tetrachloroethane	2	<1.0	<1.0	<1.0	<10.0	<2.0	NA*
1,1,2-Trichloroethane	3	<1.0	<1.0	<1.0	<10.0	<2.0	NA*
1,1,2-Trichlorotrifluoroethane	200000	**5.9**	**2.2**	**3.8**	**34.2**	**43.4**	NA*
1,1-Dichloroethane	70	<1.0	<1.0	<1.0	<10.0	<2.0	NA*
1,1-Dichloroethene	6	<1.0	<1.0	<1.0	<10.0	<2.0	<100
1,1-Dichloropropene	NL	<1.0	<1.0	<1.0	<10.0	<2.0	NA*
1,2,3-Trichlorobenzene	NL	<1.0	<1.0	<1.0	<10.0	<2.0	NA*
1,2,3-Trichloropropane	40	<1.0	<1.0	<1.0	<10.0	<2.0	NA*
1,2,4-Trichlorobenzene	NL	<1.0	<1.0	<1.0	<10.0	<2.0	NA*
1,2,4-Trimethylbenzene	NL	<1.0	<1.0	<1.0	<10.0	<2.0	NA*
1,2-Dibromo-3-chloropropane	NL	<4.0	<4.0	<4.0	<40.0	<8.0	NA*
1,2-Dibromoethane (EDB)	.004	<1.0	<1.0	<1.0	<10.0	<2.0	NA*
1,2-Dichlorobenzene	600	<1.0	<1.0	<1.0	<10.0	<2.0	NA*
1,2-Dichloroethane	4	<1.0	<1.0	<1.0	<10.0	<2.0	NA*
1,2-Dichloropropane	5	<1.0	<1.0	<1.0	<10.0	<2.0	NA*
1,3,5-Trimethylbenzene	100	<1.0	<1.0	<1.0	<10.0	<2.0	NA*
1,3-Dichlorobenzene	NL	<1.0	<1.0	<1.0	<10.0	<2.0	NA*
1,3-Dichloropropane	NL	<1.0	<1.0	<1.0	<10.0	<2.0	NA*
1,4-Dichlorobenzene	10	<1.0	<1.0	<1.0	<10.0	<2.0	NA*
2,2-Dichloropropane	NL	<4.0	<4.0	<1.0	<40.0	<2.0	NA*
2-Butanone (MEK)	4000	<4.0	<4.0	<4.0	<40.0	**24.1**	NA*
2-Chlorotoluene	NL	<1.0	<1.0	<1.0	<10.0	<2.0	NA*
4-Chlorotoluene	NL	<1.0	<1.0	<1.0	<10.0	<2.0	NA*
4-Methyl-2-pentanone (MIBK)	300	<4.0	<4.0	<4.0	<40.0	<8.0	NA*
Acetone	700	<10.0	<10.0	**12.9**	<100	<20.0	NA*
Allyl chloride	30	<4.0	<4.0	<4.0	<40.0	<8.0	NA*
Benzene	2	<1.0	<1.0	<1.0	<10.0	<2.0	NA*
Bromobenzene	NL	<1.0	<1.0	<1.0	<10.0	<2.0	NA*
Bromochloromethane	NL	<1.0	<1.0	<1.0	<10.0	<2.0	NA*
Bromodichloromethane	6	<1.0	<1.0	<1.0	<10.0	<2.0	NA*
Bromoform	40	<8.0	<8.0	<8.0	<80.0	<16.0	NA*
Bromomethane	10	<4.0	<4.0	<4.0	<40.0	<8.0	NA*
Carbon tetrachloride	3	<4.0	<4.0	<1.0	<40.0	<2.0	NA*
Chlorobenzene	100	<1.0	<1.0	<1.0	<10.0	<2.0	NA*
Chloroethane	300	<1.0	<1.0	<1.0	<10.0	<2.0	NA*
Chloroform	30	<1.0	<1.0	<1.0	<10.0	<2.0	NA*
Chloromethane	NL	<4.0	<4.0	<4.0	<40.0	<8.0	NA*
cis-1,2-Dichloroethene	50	<1.0	<1.0	<1.0	<10.0	<2.0	<100
cis-1,3-Dichloropropene	NL	<4.0	<4.0	<4.0	<40.0	<8.0	NA*
Dibromochloromethane	10	<1.0	<1.0	<1.0	<10.0	<2.0	NA*
Dibromomethane	NL	<4.0	<4.0	<1.0	<10.0	<2.0	NA*
Dichlorodifluoromethane	1000	<1.0	<1.0	<1.0	<10.0	<2.0	NA*
Dichlorofluoromethane	NL	<1.0	<1.0	<1.0	<10.0	<2.0	NA*
Diethyl ether (Ethyl ether)	1000	<4.0	<4.0	<4.0	<40.0	<8.0	NA*
Ethylbenzene	700	<1.0	<1.0	<1.0	<10.0	<2.0	NA*
Hexachloro-1,3-butadiene	1	<4.0	<4.0	<4.0	<40.0	<8.0	NA*
Isopropylbenzene (Cumene)	300	<1.0	<1.0	<1.0	<10.0	<2.0	NA*
m&p-Xylene	NL	<2.0	<2.0	<2.0	<20.0	<4.0	NA*
Methylene Chloride	5	<4.0	<4.0	<4.0	<40.0	<8.0	NA*
Methyl-tert-butyl ether	70	<1.0	<1.0	<1.0	<10.0	<2.0	NA*
Naphthalene	300	<4.0	<4.0	<4.0	<40.0	<8.0	NA*
n-Butylbenzene	NL	<1.0	<1.0	<1.0	<10.0	<2.0	NA*
n-Propylbenzene	NL	<1.0	<1.0	<1.0	<10.0	<2.0	NA*
o-Xylene	NL	<1.0	<1.0	<1.0	<10.0	<2.0	NA*
p-Isopropyltoluene	NL	<1.0	<1.0	<1.0	<10.0	<2.0	NA*
sec-Butylbenzene	NL	<1.0	<1.0	<1.0	<10.0	<2.0	NA*
Styrene	NL	<1.0	<1.0	<1.0	<10.0	<2.0	NA*
tert-Butylbenzene	NL	<1.0	<1.0	<1.0	<10.0	<2.0	NA*
Tetrachloroethene	5	**131**	**66.9**	**90.3**	**1,480**	**1,850**	**14,200**
Tetrahydrofuran	100	<10.0	<10.0	**18.4**	<100	**46.1**	NA*
Toluene	1000	<1.0	<1.0	<1.0	<10.0	<2.0	NA*
trans-1,2-Dichloroethene	100	<1.0	<1.0	<1.0	<10.0	<2.0	<100
trans-1,3-Dichloropropene	NL	<4.0	<4.0	<4.0	<40.0	<8.0	NA*
Trichloroethene	5	<1.0	<1.0	<1.0	<10.0	<2.0	<100
Trichlorofluoromethane	2000	<1.0	<1.0	<1.0	<10.0	<2.0	NA*
Vinyl chloride	0.2	<0.40	<0.40	<0.40	<4.0	<0.80	<40.0
Xylene (Total)	10000	<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 02/16/12	MW-14 11/21/11	MW-14 08/28/11	MW-14 05/19/11	MW-14 03/01/11	MW-14 11/18/10
1,1,1,2-Tetrachloroethane	70	<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
1,1,2,2-Tetrachloroethane	2	<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
1,1,2-Trichlorotrifluoroethane	200000	<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
1,1-Dichloroethene	6	<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
1,2,3-Trichlorobenzene	NL	<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	<1.0
1,2,4-Trichlorobenzene	NL	<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
1,2-Dibromo-3-chloropropane	NL	<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
1,2-Dichlorobenzene	600	<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
1,2-Dichloropropane	5	<4.0	<4.0	<4.0	<4.0	<1.0	<1.0
1,3,5-Trimethylbenzene	100	<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
1,3-Dichloropropane	NL	<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
2,2-Dichloropropane	NL	<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
2-Chlorotoluene	NL	<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
4-Methyl-2-pentanone (MIBK)	300	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Acetone	700	<25.0	<25.0	<25.0	<25.0	<25.0	<10.0
Allyl chloride	30	<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
Bromobenzene	NL	<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
Bromodichloromethane	6	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Bromoform	40	<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
Carbon tetrachloride	3	<1.0	<1.0	<1.0	<1.0	<4.0	<4.0
Chlorobenzene	100	<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
Chloroform	30	**1.2**	**1.4**	**1.6**	**1.9**	**2.3**	**3.5**
Chloromethane	NL	<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
cis-1,3-Dichloropropene	NL	<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
Dibromomethane	NL	<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
Dichlorofluoromethane	NL	<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
Ethylbenzene	700	<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	<4.0	<4.0
Isopropylbenzene (Cumene)	300	<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
Methylene Chloride	5	<4.0	<4.0	<4.0	<4.0	**7.2**	<4.0
Methyl-tert-butyl ether	70	<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
n-Butylbenzene	NL	<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
o-Xylene	NL	<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
sec-Butylbenzene	NL	<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
tert-Butylbenzene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Tetrachloroethene	5	<1.0	**1.5**	**1.5**	**5.0**	**4.8**	**6.6**
Tetrahydrofuran	100	<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
trans-1,2-Dichloroethene	100	<1.0	<4.0	<4.0	<4.0	<1.0	<1.0
trans-1,3-Dichloropropene	NL	<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
Trichlorofluoromethane	2000	<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
Xylene (Total)	10000	<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 08/18/10	MW-14 05/12/10	MW-14 02/23/10	MW-14 11/16/09	MW-14 10/01/09	MW-14 12/03/08
1,1,1,2-Tetrachloroethane	70	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
1,1,1-Trichloroethane	9000	<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	NA*
1,1,2-Trichloroethane	3	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
1,1,2-Trichlorotrifluoroethane	200000	<1.0	<1.0	<1.0	**1.1**	<1.0	NA*
1,1-Dichloroethane	70	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
1,1-Dichloroethene	6	<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	NA*
1,2,3-Trichlorobenzene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
1,2,3-Trichloropropane	40	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
1,2,4-Trichlorobenzene	NL	<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	NA*
1,2-Dibromo-3-chloropropane	NL	<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	NA*
1,2-Dichlorobenzene	600	<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	NA*
1,2-Dichloropropane	5	<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	NA*
1,3-Dichlorobenzene	NL	<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	NA*
1,4-Dichlorobenzene	10	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
2,2-Dichloropropane	NL	<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	NA*
2-Chlorotoluene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
4-Chlorotoluene	NL	<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	NA*
Acetone	700	<10.0	<10.0	<10.0	<10.0	<10.0	NA*
Allyl chloride	30	<4.0	<4.0	<4.0	<4.0	<4.0	NA*
Benzene	2	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
Bromobenzene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
Bromochloromethane	NL	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
Bromodichloromethane	6	<1.0	**1.1**	<1.0	<1.0	<1.0	NA*
Bromoform	40	<8.0	<8.0	<8.0	<8.0	<8.0	NA*
Bromomethane	10	<4.0	<4.0	<4.0	<4.0	<4.0	NA*
Carbon tetrachloride	3	<4.0	<4.0	<1.0	<4.0	<1.0	NA*
Chlorobenzene	100	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
Chloroethane	300	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
Chloroform	30	**3.0**	**4.1**	**3.2**	**2.7**	**3.7**	NA*
Chloromethane	NL	<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
cis-1,3-Dichloropropene	NL	<4.0	<4.0	<4.0	<4.0	<4.0	NA*
Dibromochloromethane	10	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
Dibromomethane	NL	<4.0	<4.0	<1.0	<1.0	<1.0	NA*
Dichlorodifluoromethane	1000	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
Dichlorofluoromethane	NL	<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	NA*
Ethylbenzene	700	<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	NA*
Isopropylbenzene (Cumene)	300	<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	NA*
Methylene Chloride	5	<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	NA*
Naphthalene	300	<4.0	<4.0	<4.0	<4.0	<4.0	NA*
n-Butylbenzene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
n-Propylbenzene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
o-Xylene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
p-Isopropyltoluene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
sec-Butylbenzene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
Styrene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
tert-Butylbenzene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
Tetrachloroethene	5	**1.8**	**3.1**	**3.0**	**7.1**	**4.2**	**30.6**
Tetrahydrofuran	100	<10.0	<10.0	<10.0	<10.0	<10.0	NA*
Toluene	1000	<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
trans-1,3-Dichloropropene	NL	<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
Trichlorofluoromethane	2000	<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
Xylene (Total)	10000	<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 02/16/12	MW-15 11/21/11	MW-15 08/28/11	MW-15 05/19/11	MW-15 03/01/11	MW-15 11/18/10
1,1,1,2-Tetrachloroethane	70	<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
1,1,2,2-Tetrachloroethane	2	<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
1,1,2-Trichlorotrifluoroethane	200000	<1.0	<1.0	**1.1**	<1.0	<1.0	**2.0**
1,1-Dichloroethane	70	<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
1,1-Dichloropropene	NL	<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
1,2,3-Trichloropropane	40	<4.0	<4.0	<4.0	<4.0	<4.0	<1.0
1,2,4-Trichlorobenzene	NL	<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
1,2-Dibromo-3-chloropropane	NL	<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
1,2-Dichlorobenzene	600	<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
1,2-Dichloropropane	5	<4.0	<4.0	<4.0	<4.0	<1.0	<1.0
1,3,5-Trimethylbenzene	100	<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
1,3-Dichloropropane	NL	<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
2,2-Dichloropropane	NL	<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
2-Chlorotoluene	NL	<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
4-Methyl-2-pentanone (MIBK)	300	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Acetone	700	<25.0	<25.0	<25.0	<25.0	<25.0	<10.0
Allyl chloride	30	<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
Bromobenzene	NL	<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
Bromodichloromethane	6	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Bromoform	40	<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
Carbon tetrachloride	3	<1.0	<1.0	<1.0	<1.0	<4.0	<4.0
Chlorobenzene	100	<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
Chloroform	30	<1.0	<1.0	**1.0**	**2.8**	**1.2**	**1.8**
Chloromethane	NL	<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
cis-1,3-Dichloropropene	NL	<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
Dibromomethane	NL	<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
Dichlorofluoromethane	NL	<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
Ethylbenzene	700	<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	<4.0	<4.0
Isopropylbenzene (Cumene)	300	<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
Methylene Chloride	5	<4.0	<4.0	<4.0	<4.0	**6.4**	<4.0
Methyl-tert-butyl ether	70	<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
n-Butylbenzene	NL	<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
o-Xylene	NL	<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
sec-Butylbenzene	NL	<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
tert-Butylbenzene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Tetrachloroethene	5	<1.0	<1.0	**1.2**	<1.0	<1.0	**3.3**
Tetrahydrofuran	100	<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
trans-1,2-Dichloroethene	100	<1.0	<4.0	<4.0	<4.0	<1.0	<1.0
trans-1,3-Dichloropropene	NL	<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
Trichlorofluoromethane	2000	<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
Xylene (Total)	10000	<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 08/18/10	MW-15 05/12/10	MW-15 02/22/10	MW-15 11/16/09	MW-15 10/01/09	MW-15 12/10/08
1,1,1,2-Tetrachloroethane	70	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
1,1,1-Trichloroethane	9000	<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	NA*
1,1,2-Trichloroethane	3	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
1,1,2-Trichlorotrifluoroethane	200000	<1.0	**1.5**	**3.3**	**6.4**	**6.4**	NA*
1,1-Dichloroethane	70	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
1,1-Dichloroethene	6	<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	NA*
1,2,3-Trichlorobenzene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
1,2,3-Trichloropropane	40	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
1,2,4-Trichlorobenzene	NL	<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	NA*
1,2-Dibromo-3-chloropropane	NL	<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	NA*
1,2-Dichlorobenzene	600	<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	NA*
1,2-Dichloropropane	5	<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	NA*
1,3-Dichlorobenzene	NL	<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	NA*
1,4-Dichlorobenzene	10	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
2,2-Dichloropropane	NL	<4.0	<4.0	<1.0	<4.0	<1.0	NA*
2-Butanone (MEK)	4000	<4.0	<4.0	<4.0	**5.1**	<4.0	NA*
2-Chlorotoluene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
4-Chlorotoluene	NL	<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	NA*
Acetone	700	<10.0	<10.0	<10.0	<10.0	<10.0	NA*
Allyl chloride	30	<4.0	<4.0	<4.0	<4.0	<4.0	NA*
Benzene	2	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
Bromobenzene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
Bromochloromethane	NL	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
Bromodichloromethane	6	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
Bromoform	40	<8.0	<8.0	<8.0	<8.0	<8.0	NA*
Bromomethane	10	<4.0	<4.0	<4.0	<4.0	<4.0	NA*
Carbon tetrachloride	3	<4.0	<4.0	<1.0	<4.0	<1.0	NA*
Chlorobenzene	100	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
Chloroethane	300	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
Chloroform	30	<1.0	**1.3**	**1.4**	**2.2**	**2.2**	NA*
Chloromethane	NL	<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
cis-1,3-Dichloropropene	NL	<4.0	<4.0	<4.0	<4.0	<4.0	NA*
Dibromochloromethane	10	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
Dibromomethane	NL	<4.0	<4.0	<1.0	<1.0	<1.0	NA*
Dichlorodifluoromethane	1000	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
Dichlorofluoromethane	NL	<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	NA*
Ethylbenzene	700	<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	NA*
Isopropylbenzene (Cumene)	300	<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	NA*
Methylene Chloride	5	<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	NA*
Naphthalene	300	<4.0	<4.0	<4.0	<4.0	<4.0	NA*
n-Butylbenzene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
n-Propylbenzene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
o-Xylene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
p-Isopropyltoluene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
sec-Butylbenzene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
Styrene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
tert-Butylbenzene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
Tetrachloroethene	5	**1.3**	**2.8**	**5.7**	**9.5**	**15.7**	**104**
Tetrahydrofuran	100	<10.0	<10.0	<10.0	<10.0	<10.0	NA*
Toluene	1000	<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
trans-1,3-Dichloropropene	NL	<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
Trichlorofluoromethane	2000	<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
Xylene (Total)	10000	<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 02/16/12	MW-16 11/21/11	MW-16 08/28/11	MW-16 05/19/11	MW-16 03/01/11
1,1,1,2-Tetrachloroethane	70	<1.0	<1.0	<2.0	<2.0	<2.0
1,1,1-Trichloroethane	9000	<1.0	<1.0	<2.0	<2.0	<2.0
1,1,2,2-Tetrachloroethane	2	<1.0	<1.0	<2.0	<2.0	<2.0
1,1,2-Trichloroethane	3	<1.0	<1.0	<2.0	<2.0	<2.0
1,1,2-Trichlorotrifluoroethane	200000	<1.0	**3.1**	**19.7**	**43.6**	**23.0**
1,1-Dichloroethane	70	<1.0	<1.0	<2.0	<2.0	<2.0
1,1-Dichloroethene	6	<1.0	<1.0	<2.0	<2.0	<2.0
1,1-Dichloropropene	NL	<1.0	<1.0	<2.0	<2.0	<2.0
1,2,3-Trichlorobenzene	NL	<1.0	<1.0	<2.0	<2.0	<2.0
1,2,3-Trichloropropane	40	<4.0	<4.0	<8.0	<8.0	<8.0
1,2,4-Trichlorobenzene	NL	<1.0	<1.0	<2.0	<2.0	<2.0
1,2,4-Trimethylbenzene	NL	<1.0	<1.0	<2.0	<2.0	<2.0
1,2-Dibromo-3-chloropropane	NL	<4.0	<4.0	<8.0	<8.0	<8.0
1,2-Dibromoethane (EDB)	.004	<1.0	<1.0	<2.0	<2.0	<2.0
1,2-Dichlorobenzene	600	<1.0	<1.0	<2.0	<2.0	<2.0
1,2-Dichloroethane	4	<1.0	<1.0	<2.0	<2.0	<2.0
1,2-Dichloropropane	5	<4.0	<4.0	<8.0	<8.0	<2.0
1,3,5-Trimethylbenzene	100	<1.0	<1.0	<2.0	<2.0	<2.0
1,3-Dichlorobenzene	NL	<1.0	<1.0	<2.0	<2.0	<2.0
1,3-Dichloropropane	NL	<1.0	<1.0	<2.0	<2.0	<2.0
1,4-Dichlorobenzene	10	<1.0	<1.0	<2.0	<2.0	<2.0
2,2-Dichloropropane	NL	<4.0	<4.0	<8.0	<8.0	<8.0
2-Butanone (MEK)	4000	<4.0	<4.0	<8.0	<8.0	<8.0
2-Chlorotoluene	NL	<1.0	<1.0	<2.0	<2.0	<2.0
4-Chlorotoluene	NL	<1.0	<1.0	<2.0	<2.0	<2.0
4-Methyl-2-pentanone (MIBK)	300	<4.0	<4.0	<8.0	<8.0	<8.0
Acetone	700	<25.0	<25.0	<50.0	<50.0	<50.0
Allyl chloride	30	<4.0	<4.0	<8.0	<8.0	<8.0
Benzene	2	<1.0	<1.0	<2.0	<2.0	<2.0
Bromobenzene	NL	<1.0	<1.0	<2.0	<2.0	<2.0
Bromochloromethane	NL	<1.0	<1.0	<2.0	<2.0	<2.0
Bromodichloromethane	6	<1.0	<1.0	<2.0	<2.0	<2.0
Bromoform	40	<4.0	<4.0	<8.0	<8.0	<16.0
Bromomethane	10	<4.0	<4.0	<8.0	<8.0	<20.0
Carbon tetrachloride	3	<1.0	<1.0	<2.0	<2.0	<8.0
Chlorobenzene	100	<1.0	<1.0	<2.0	<2.0	<2.0
Chloroethane	300	<1.0	<1.0	<2.0	<2.0	<2.0
Chloroform	30	<1.0	<1.0	<2.0	<2.0	<2.0
Chloromethane	NL	<4.0	<4.0	<8.0	<8.0	<8.0
cis-1,2-Dichloroethene	50	<1.0	**1.0**	**7.3**	**4.1**	**2.6**
cis-1,3-Dichloropropene	NL	<4.0	<4.0	<8.0	<8.0	<8.0
Dibromochloromethane	10	<1.0	<1.0	<2.0	<2.0	<2.0
Dibromomethane	NL	<4.0	<4.0	<8.0	<8.0	<8.0
Dichlorodifluoromethane	1000	<1.0	<1.0	<2.0	<2.0	<2.0
Dichlorofluoromethane	NL	<1.0	<1.0	<2.0	<2.0	<2.0
Diethyl ether (Ethyl ether)	1000	<4.0	<4.0	<8.0	<8.0	<8.0
Ethylbenzene	700	<1.0	<1.0	<2.0	<2.0	<2.0
Hexachloro-1,3-butadiene	1	<5.0	<5.0	<10.0	<10.0	<8.0
Isopropylbenzene (Cumene)	300	<1.0	<1.0	<2.0	<2.0	<2.0
m&p-Xylene	NL	<2.0	<2.0	<4.0	<4.0	<4.0
Methylene Chloride	5	<4.0	<4.0	<8.0	<8.0	<8.0
Methyl-tert-butyl ether	70	<1.0	<1.0	<2.0	<2.0	<2.0
Naphthalene	300	<4.0	<4.0	<8.0	<8.0	<8.0
n-Butylbenzene	NL	<1.0	<1.0	<2.0	<2.0	<2.0
n-Propylbenzene	NL	<1.0	<1.0	<2.0	<2.0	<2.0
o-Xylene	NL	<1.0	<1.0	<2.0	<2.0	<2.0
p-Isopropyltoluene	NL	<1.0	<1.0	<2.0	<2.0	<2.0
sec-Butylbenzene	NL	<1.0	<1.0	<2.0	<2.0	<2.0
Styrene	NL	<1.0	<1.0	<2.0	<2.0	<2.0
tert-Butylbenzene	NL	<1.0	<1.0	<2.0	<2.0	<2.0
Tetrachloroethene	5	**16.1**	**75.0**	**590**	**1310**	**322**
Tetrahydrofuran	100	<10.0	<10.0	<20.0	<20.0	<20.0
Toluene	1000	<1.0	<1.0	<2.0	<2.0	<2.0
trans-1,2-Dichloroethene	100	<1.0	<4.0	<8.0	<8.0	<2.0
trans-1,3-Dichloropropene	NL	<4.0	<4.0	<8.0	<8.0	<8.0
Trichloroethene	5	<1.0	<1.0	<2.0	2.0	<2.0
Trichlorofluoromethane	2000	<1.0	<1.0	<2.0	<2.0	<2.0
Vinyl chloride	0.2	<0.40	<0.40	<0.80	<0.80	<0.80
Xylene (Total)	10000	<3.0	<3.0	<6.0	<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 11/18/10	MW-16 08/18/10	MW-16 05/12/10	MW-16 02/22/10	MW-16 11/16/09	MW-16 10/01/09	MW-16 12/03/08
1,1,1,2-Tetrachloroethane	70	<5.0	<5.0	<10.0	<50.0	<250	<10.0	NA*
1,1,1-Trichloroethane	9000	<5.0	<5.0	<10.0	<50.0	<250	<10.0	NA*
1,1,2,2-Tetrachloroethane	2	<5.0	<5.0	<10.0	<50.0	<250	<10.0	NA*
1,1,2-Trichloroethane	3	<5.0	<5.0	<10.0	<50.0	<250	<10.0	NA*
1,1,2-Trichlorotrifluoroethane	200000	**127**	**63.8**	**39.3**	**261**	**1,390**	**779**	NA*
1,1-Dichloroethane	70	<5.0	<5.0	<10.0	<50.0	<250	<10.0	NA*
1,1-Dichloroethene	6	<5.0	<5.0	<10.0	<50.0	<250	<10.0	<1.0
1,1-Dichloropropene	NL	<5.0	<5.0	<10.0	<50.0	<250	<10.0	NA*
1,2,3-Trichlorobenzene	NL	<5.0	<5.0	<10.0	<50.0	<250	<10.0	NA*
1,2,3-Trichloropropane	40	<5.0	<5.0	<10.0	<50.0	<250	<10.0	NA*
1,2,4-Trichlorobenzene	NL	<5.0	<5.0	<10.0	<50.0	<250	<10.0	NA*
1,2,4-Trimethylbenzene	NL	<5.0	<5.0	<10.0	<50.0	<250	<10.0	NA*
1,2-Dibromo-3-chloropropane	NL	<20.0	<20.0	<40.0	<200	<1000	<40.0	NA*
1,2-Dibromoethane (EDB)	.004	<5.0	<5.0	<10.0	<50.0	<250	<10.0	NA*
1,2-Dichlorobenzene	600	<5.0	<5.0	<10.0	<50.0	<250	<10.0	NA*
1,2-Dichloroethane	4	<5.0	<5.0	<10.0	<50.0	<250	<10.0	NA*
1,2-Dichloropropane	5	<5.0	<5.0	<10.0	<50.0	<250	<10.0	NA*
1,3,5-Trimethylbenzene	100	<5.0	<5.0	<10.0	<50.0	<250	<10.0	NA*
1,3-Dichlorobenzene	NL	<5.0	<5.0	<10.0	<50.0	<250	<10.0	NA*
1,3-Dichloropropane	NL	<5.0	<5.0	<10.0	<50.0	<250	<10.0	NA*
1,4-Dichlorobenzene	10	<5.0	<5.0	<10.0	<50.0	<250	<10.0	NA*
2,2-Dichloropropane	NL	<20.0	<20.0	<40.0	<200	<1000	<10.0	NA*
2-Butanone (MEK)	4000	<20.0	<20.0	<40.0	<200	<1000	<40.0	NA*
2-Chlorotoluene	NL	<5.0	<5.0	<10.0	<50.0	<250	<10.0	NA*
4-Chlorotoluene	NL	<5.0	<5.0	<10.0	<50.0	<250	<10.0	NA*
4-Methyl-2-pentanone (MIBK)	300	<20.0	<20.0	<40.0	<200	<1000	<40.0	NA*
Acetone	700	<50.0	<50.0	<100	<500	<2500	<100	NA*
Allyl chloride	30	<20.0	<20.0	<40.0	<200	<1000	<40.0	NA*
Benzene	2	<5.0	<5.0	<10.0	<50.0	<250	<10.0	NA*
Bromobenzene	NL	<5.0	<5.0	<10.0	<50.0	<250	<10.0	NA*
Bromochloromethane	NL	<5.0	<5.0	<10.0	<50.0	<250	<10.0	NA*
Bromodichloromethane	6	<5.0	<5.0	<10.0	<50.0	<250	<10.0	NA*
Bromoform	40	<40.0	<40.0	<80.0	<400	<2000	<80.0	NA*
Bromomethane	10	<20.0	<20.0	<40.0	<200	<1000	<40.0	NA*
Carbon tetrachloride	3	<20.0	<20.0	<40.0	<200	<1000	<10.0	NA*
Chlorobenzene	100	<5.0	<5.0	<10.0	<50.0	<250	<10.0	NA*
Chloroethane	300	<5.0	<5.0	<10.0	<50.0	<250	<10.0	NA*
Chloroform	30	<5.0	<5.0	<10.0	<50.0	<250	<10.0	NA*
Chloromethane	NL	<20.0	<20.0	<40.0	<200	<1000	<40.0	NA*
cis-1,2-Dichloroethene	50	**12.6**	<5.0	<10.0	<50.0	<250	**24.0**	**133**
cis-1,3-Dichloropropene	NL	<20.0	<20.0	<40.0	<200	<1000	<40.0	NA*
Dibromochloromethane	10	<5.0	<5.0	<10.0	<50.0	<250	<10.0	NA*
Dibromomethane	NL	<20.0	<20.0	<40.0	<200	<250	<10.0	NA*
Dichlorodifluoromethane	1000	<5.0	<5.0	<10.0	<50.0	<250	<10.0	NA*
Dichlorofluoromethane	NL	<5.0	<5.0	<10.0	<50.0	<250	<10.0	NA*
Diethyl ether (Ethyl ether)	1000	<20.0	<20.0	<40.0	<200	<1000	<40.0	NA*
Ethylbenzene	700	<5.0	<5.0	<10.0	<50.0	<250	<10.0	NA*
Hexachloro-1,3-butadiene	1	<20.0	<20.0	<40.0	<200	<1000	<40.0	NA*
Isopropylbenzene (Cumene)	300	<5.0	<5.0	<10.0	<50.0	<250	<10.0	NA*
m&p-Xylene	NL	<10.0	<10.0	<20.0	<100	<500	<20.0	NA*
Methylene Chloride	5	<20.0	<20.0	<40.0	<200	<1000	<40.0	NA*
Methyl-tert-butyl ether	70	<5.0	<5.0	<10.0	<50.0	<250	<10.0	NA*
Naphthalene	300	<20.0	<20.0	<40.0	<200	<1000	<40.0	NA*
n-Butylbenzene	NL	<5.0	<5.0	<10.0	<50.0	<250	<10.0	NA*
n-Propylbenzene	NL	<5.0	<5.0	<10.0	<50.0	<250	<10.0	NA*
o-Xylene	NL	<5.0	<5.0	<10.0	<50.0	<250	<10.0	NA*
p-Isopropyltoluene	NL	<5.0	<5.0	<10.0	<50.0	<250	<10.0	NA*
sec-Butylbenzene	NL	<5.0	<5.0	<10.0	<50.0	<250	<10.0	NA*
Styrene	NL	<5.0	<5.0	<10.0	<50.0	<250	<10.0	NA*
tert-Butylbenzene	NL	<5.0	<5.0	<10.0	<50.0	<250	<10.0	NA*
Tetrachloroethene	5	**2120**	**696**	**815**	**4,390**	**21,000**	**6,890**	**14,100**
Tetrahydrofuran	100	<50.0	<50.0	<100	<500	<2500	<100	NA*
Toluene	1000	<5.0	<5.0	<10.0	<50.0	<250	<10.0	NA*
trans-1,2-Dichloroethene	100	<5.0	<5.0	<10.0	<50.0	<250	<10.0	<1.0
trans-1,3-Dichloropropene	NL	<20.0	<20.0	<40.0	<200	<1000	<40.0	NA*
Trichloroethene	5	<5.0	<5.0	<10.0	<50.0	<250	<10.0	**35.0**
Trichlorofluoromethane	2000	<5.0	<5.0	<10.0	<50.0	<250	<10.0	NA*
Vinyl chloride	0.2	<2.0	<2.0	<4.0	<20.0	<100	<4.0	<0.40
Xylene (Total)	10000	<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 02/16/12	MW-17 11/21/11	MW-17 08/28/11	MW-17 05/19/11	MW-17 03/01/11	MW-17 11/18/10
1,1,1,2-Tetrachloroethane	70	<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
1,1,2,2-Tetrachloroethane	2	<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
1,1,2-Trichlorotrifluoroethane	200000	**6.6**	**11.5**	**6.5**	**15.8**	**21.6**	**25.1**
1,1-Dichloroethane	70	<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
1,1-Dichloropropene	NL	<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
1,2,3-Trichloropropane	40	<4.0	<4.0	<4.0	<4.0	<4.0	<1.0
1,2,4-Trichlorobenzene	NL	<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
1,2-Dibromo-3-chloropropane	NL	<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
1,2-Dichlorobenzene	600	<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
1,2-Dichloropropane	5	<4.0	<4.0	<4.0	<4.0	<1.0	<1.0
1,3,5-Trimethylbenzene	100	<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
1,3-Dichloropropane	NL	<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
2,2-Dichloropropane	NL	<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
2-Chlorotoluene	NL	<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
4-Methyl-2-pentanone (MIBK)	300	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Acetone	700	<25.0	<25.0	<25.0	<25.0	<25.0	<10.0
Allyl chloride	30	<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
Bromobenzene	NL	<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
Bromodichloromethane	6	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Bromoform	40	<4.0	<4.0	<4.0	<4.0	<8.0	<8.0
Bromomethane	10	<4.0	<4.0	<4.0	<4.0	<10.0	<4.0
Carbon tetrachloride	3	<1.0	<1.0	<1.0	<1.0	<4.0	<4.0
Chlorobenzene	100	<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
Chloroform	30	**1.2**	**1.4**	<1.0	**1.1**	**1.4**	**1.8**
Chloromethane	NL	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
cis-1,2-Dichloroethene	50	<1.0	**1.0**	**1.3**	**1.0**	**1.8**	**2.2**
cis-1,3-Dichloropropene	NL	<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
Dibromomethane	NL	<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
Dichlorofluoromethane	NL	<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
Ethylbenzene	700	<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	<4.0	<4.0
Isopropylbenzene (Cumene)	300	<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
Methylene Chloride	5	<4.0	<4.0	<4.0	<4.0	**6.1**	<4.0
Methyl-tert-butyl ether	70	<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
n-Butylbenzene	NL	<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
o-Xylene	NL	<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
sec-Butylbenzene	NL	<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
tert-Butylbenzene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Tetrachloroethene	5	**47.1**	**106**	**107**	**109**	**145**	**209**
Tetrahydrofuran	100	<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
trans-1,2-Dichloroethene	100	<1.0	<4.0	<4.0	<4.0	<1.0	<1.0
trans-1,3-Dichloropropene	NL	<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
Trichlorofluoromethane	2000	<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
Xylene (Total)	10000	<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 08/18/10	MW-17 05/12/10	MW-17 02/22/10	MW-17 11/16/09	MW-17 10/01/09	MW-17 12/03/08
1,1,1,2-Tetrachloroethane	70	<1.0	<5.0	<5.0	<5.0	<2.0	NA*
1,1,1-Trichloroethane	9000	<1.0	<5.0	<5.0	<5.0	<2.0	NA*
1,1,2,2-Tetrachloroethane	2	<1.0	<5.0	<5.0	<5.0	<2.0	NA*
1,1,2-Trichloroethane	3	<1.0	<5.0	<5.0	<5.0	<2.0	NA*
1,1,2-Trichlorotrifluoroethane	200000	**25.4**	**46.8**	**76.2**	**199**	**249**	NA*
1,1-Dichloroethane	70	<1.0	<5.0	<5.0	<5.0	<2.0	NA*
1,1-Dichloroethene	6	<1.0	<5.0	<5.0	<5.0	<2.0	<5.0
1,1-Dichloropropene	NL	<1.0	<5.0	<5.0	<5.0	<2.0	NA*
1,2,3-Trichlorobenzene	NL	<1.0	<5.0	<5.0	<5.0	<2.0	NA*
1,2,3-Trichloropropane	40	<1.0	<5.0	<5.0	<5.0	<2.0	NA*
1,2,4-Trichlorobenzene	NL	<1.0	<5.0	<5.0	<5.0	<2.0	NA*
1,2,4-Trimethylbenzene	NL	<1.0	<5.0	<5.0	<5.0	<2.0	NA*
1,2-Dibromo-3-chloropropane	NL	<4.0	<20.0	<20.0	<20.0	<8.0	NA*
1,2-Dibromoethane (EDB)	.004	<1.0	<5.0	<5.0	<5.0	<2.0	NA*
1,2-Dichlorobenzene	600	<1.0	<5.0	<5.0	<5.0	<2.0	NA*
1,2-Dichloroethane	4	<1.0	<5.0	<5.0	<5.0	<2.0	NA*
1,2-Dichloropropane	5	<1.0	<5.0	<5.0	<5.0	<2.0	NA*
1,3,5-Trimethylbenzene	100	<1.0	<5.0	<5.0	<5.0	<2.0	NA*
1,3-Dichlorobenzene	NL	<1.0	<5.0	<5.0	<5.0	<2.0	NA*
1,3-Dichloropropane	NL	<1.0	<5.0	<5.0	<5.0	<2.0	NA*
1,4-Dichlorobenzene	10	<1.0	<5.0	<5.0	<5.0	<2.0	NA*
2,2-Dichloropropane	NL	<4.0	<20.0	<20.0	<20.0	<2.0	NA*
2-Butanone (MEK)	4000	<4.0	<20.0	<20.0	<20.0	<8.0	NA*
2-Chlorotoluene	NL	<1.0	<5.0	<5.0	<5.0	<2.0	NA*
4-Chlorotoluene	NL	<1.0	<5.0	<5.0	<5.0	<2.0	NA*
4-Methyl-2-pentanone (MIBK)	300	<4.0	<20.0	<20.0	<20.0	<8.0	NA*
Acetone	700	<10.0	<50.0	<50.0	<50.0	<20.0	NA*
Allyl chloride	30	<4.0	<20.0	<20.0	<20.0	<8.0	NA*
Benzene	2	<1.0	<5.0	<5.0	<5.0	<2.0	NA*
Bromobenzene	NL	<1.0	<5.0	<5.0	<5.0	<2.0	NA*
Bromochloromethane	NL	<1.0	<5.0	<5.0	<5.0	<2.0	NA*
Bromodichloromethane	6	<1.0	<5.0	<5.0	<5.0	<2.0	NA*
Bromoform	40	<8.0	<40.0	<40.0	<40.0	<16.0	NA*
Bromomethane	10	<4.0	<20.0	<20.0	<20.0	<8.0	NA*
Carbon tetrachloride	3	<4.0	<20.0	<20.0	<20.0	<2.0	NA*
Chlorobenzene	100	<1.0	<5.0	<5.0	<5.0	<2.0	NA*
Chloroethane	300	<1.0	<5.0	<5.0	<5.0	<2.0	NA*
Chloroform	30	**2.5**	<5.0	<5.0	<5.0	**2.4**	NA*
Chloromethane	NL	<4.0	<20.0	<20.0	<20.0	<8.0	NA*
cis-1,2-Dichloroethene	50	**2.4**	<5.0	**5.4**	**7.9**	**4.8**	<5.0
cis-1,3-Dichloropropene	NL	<4.0	<20.0	<20.0	<20.0	<8.0	NA*
Dibromochloromethane	10	<1.0	<5.0	<5.0	<5.0	<2.0	NA*
Dibromomethane	NL	<4.0	<20.0	<20.0	<5.0	<2.0	NA*
Dichlorodifluoromethane	1000	<1.0	<5.0	<5.0	<5.0	<2.0	NA*
Dichlorofluoromethane	NL	<1.0	<5.0	<5.0	<5.0	<2.0	NA*
Diethyl ether (Ethyl ether)	1000	<4.0	<20.0	<20.0	<20.0	<8.0	NA*
Ethylbenzene	700	<1.0	<5.0	<5.0	<5.0	<2.0	NA*
Hexachloro-1,3-butadiene	1	<4.0	<20.0	<20.0	<20.0	<8.0	NA*
Isopropylbenzene (Cumene)	300	<1.0	<5.0	<5.0	<5.0	<2.0	NA*
m&p-Xylene	NL	<2.0	<10.0	<10.0	<10.0	<4.0	NA*
Methylene Chloride	5	<4.0	<20.0	<20.0	<20.0	<8.0	NA*
Methyl-tert-butyl ether	70	<1.0	<5.0	<5.0	<5.0	<2.0	NA*
Naphthalene	300	<4.0	<20.0	<20.0	<20.0	<8.0	NA*
n-Butylbenzene	NL	<1.0	<5.0	<5.0	<5.0	<2.0	NA*
n-Propylbenzene	NL	<1.0	<5.0	<5.0	<5.0	<2.0	NA*
o-Xylene	NL	<1.0	<5.0	<5.0	<5.0	<2.0	NA*
p-Isopropyltoluene	NL	<1.0	<5.0	<5.0	<5.0	<2.0	NA*
sec-Butylbenzene	NL	<1.0	<5.0	<5.0	<5.0	<2.0	NA*
Styrene	NL	<1.0	<5.0	<5.0	<5.0	<2.0	NA*
tert-Butylbenzene	NL	<1.0	<5.0	<5.0	<5.0	<2.0	NA*
Tetrachloroethene	5	**174**	**412**	**639**	**1,100**	**803**	**363**
Tetrahydrofuran	100	<10.0	<50.0	<50.0	<50.0	<20.0	NA*
Toluene	1000	<1.0	<5.0	<5.0	<5.0	<2.0	NA*
trans-1,2-Dichloroethene	100	<1.0	<5.0	<5.0	<5.0	<2.0	<5.0
trans-1,3-Dichloropropene	NL	<4.0	<20.0	<20.0	<20.0	<8.0	NA*
Trichloroethene	5	<1.0	<5.0	<5.0	<5.0	<2.0	<5.0
Trichlorofluoromethane	2000	<1.0	<5.0	<5.0	<5.0	<2.0	NA*
Vinyl chloride	0.2	<0.40	<2.0	<2.0	<2.0	<0.80	<2.0
Xylene (Total)	10000	<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 02/16/12	MW-18 11/21/11	MW-18 08/28/11	MW-18 05/19/11	MW-18 03/01/11	MW-18 11/18/10
1,1,1,2-Tetrachloroethane	70	<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
1,1,2,2-Tetrachloroethane	2	<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
1,1,2-Trichlorotrifluoroethane	200000	<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
1,1-Dichloroethene	6	<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
1,2,3-Trichlorobenzene	NL	<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	<1.0
1,2,4-Trichlorobenzene	NL	<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
1,2-Dibromo-3-chloropropane	NL	<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
1,2-Dichlorobenzene	600	<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
1,2-Dichloropropane	5	<4.0	<4.0	<4.0	<4.0	<1.0	<1.0
1,3,5-Trimethylbenzene	100	<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
1,3-Dichloropropane	NL	<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
2,2-Dichloropropane	NL	<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
2-Chlorotoluene	NL	<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
4-Methyl-2-pentanone (MIBK)	300	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Acetone	700	<25.0	<25.0	<25.0	<25.0	<25.0	<10.0
Allyl chloride	30	<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
Bromobenzene	NL	<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
Bromodichloromethane	6	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Bromoform	40	<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
Carbon tetrachloride	3	<1.0	<1.0	<1.0	<1.0	<4.0	<4.0
Chlorobenzene	100	<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
Chloroform	30	<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
cis-1,2-Dichloroethene	50	<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
Dibromochloromethane	10	<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
Dichlorodifluoromethane	1000	<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
Diethyl ether (Ethyl ether)	1000	<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
Hexachloro-1,3-butadiene	1	<5.0	<5.0	<5.0	<5.0	<4.0	<4.0
Isopropylbenzene (Cumene)	300	<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
Methylene Chloride	5	<4.0	<4.0	<4.0	<4.0	**7.2**	<4.0
Methyl-tert-butyl ether	70	<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
n-Butylbenzene	NL	<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
o-Xylene	NL	<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
sec-Butylbenzene	NL	<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
tert-Butylbenzene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Tetrachloroethene	5	**2.9**	**3.6**	**3.6**	**3.6**	**4.8**	**8.6**
Tetrahydrofuran	100	<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
trans-1,2-Dichloroethene	100	<1.0	<4.0	<4.0	<4.0	<1.0	<1.0
trans-1,3-Dichloropropene	NL	<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
Trichlorofluoromethane	2000	<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
Xylene (Total)	10000	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0

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

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

TABLE 10

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

Sample ID / Collected Date and Time	MDH Health Risk Limits 5/09	MW-18 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	NA*
1,1,1-Trichloroethane	9000	<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	NA*
1,1,2-Trichloroethane	3	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
1,1,2-Trichlorotrifluoroethane	200000	<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	NA*
1,1-Dichloroethene	6	<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	NA*
1,2,3-Trichlorobenzene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
1,2,3-Trichloropropane	40	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
1,2,4-Trichlorobenzene	NL	<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	NA*
1,2-Dibromo-3-chloropropane	NL	<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	NA*
1,2-Dichlorobenzene	600	<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	NA*
1,2-Dichloropropane	5	<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	NA*
1,3-Dichlorobenzene	NL	<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	NA*
1,4-Dichlorobenzene	10	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
2,2-Dichloropropane	NL	<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	NA*
2-Chlorotoluene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
4-Chlorotoluene	NL	<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	NA*
Acetone	700	<10.0	<10.0	**12.2**	<10.0	<10.0	NA*
Allyl chloride	30	<4.0	<4.0	<4.0	<4.0	<4.0	NA*
Benzene	2	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
Bromobenzene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
Bromochloromethane	NL	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
Bromodichloromethane	6	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
Bromoform	40	<8.0	<8.0	<8.0	<8.0	<8.0	NA*
Bromomethane	10	<4.0	<4.0	<4.0	<4.0	<4.0	NA*
Carbon tetrachloride	3	<4.0	<4.0	<1.0	<4.0	<1.0	NA*
Chlorobenzene	100	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
Chloroethane	300	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
Chloroform	30	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
Chloromethane	NL	<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	<2.0
cis-1,3-Dichloropropene	NL	<4.0	<4.0	<4.0	<4.0	<4.0	NA*
Dibromochloromethane	10	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
Dibromomethane	NL	<4.0	<4.0	<1.0	<1.0	<1.0	NA*
Dichlorodifluoromethane	1000	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
Dichlorofluoromethane	NL	<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	NA*
Ethylbenzene	700	<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	NA*
Isopropylbenzene (Cumene)	300	<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	NA*
Methylene Chloride	5	<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	NA*
Naphthalene	300	<4.0	<4.0	<4.0	<4.0	<4.0	NA*
n-Butylbenzene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
n-Propylbenzene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
o-Xylene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
p-Isopropyltoluene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
sec-Butylbenzene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
Styrene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
tert-Butylbenzene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
Tetrachloroethene	5	**8.4**	**26.0**	**96.8**	**130**	**250**	**257**
Tetrahydrofuran	100	<10.0	<10.0	<10.0	<10.0	<10.0	NA*
Toluene	1000	<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	<2.0
trans-1,3-Dichloropropene	NL	<4.0	<4.0	<4.0	<4.0	<4.0	NA*
Trichloroethene	5	<1.0	<1.0	**1.2**	**2.1**	**2.6**	<2.0
Trichlorofluoromethane	2000	<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	<0.80
Xylene (Total)	10000	<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

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 02/16/12	MW-19 11/21/11	MW-19 08/28/11	MW-19 05/19/11	MW-19 03/01/11	MW-19 11/18/10
1,1,1,2-Tetrachloroethane	70	<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
1,1,2,2-Tetrachloroethane	2	<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
1,1,2-Trichlorotrifluoroethane	200000	<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
1,1-Dichloroethene	6	<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
1,2,3-Trichlorobenzene	NL	<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	<1.0
1,2,4-Trichlorobenzene	NL	<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
1,2-Dibromo-3-chloropropane	NL	<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
1,2-Dichlorobenzene	600	<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
1,2-Dichloropropane	5	<4.0	<4.0	<4.0	<4.0	<1.0	<1.0
1,3,5-Trimethylbenzene	100	<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
1,3-Dichloropropane	NL	<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
2,2-Dichloropropane	NL	<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
2-Chlorotoluene	NL	<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
4-Methyl-2-pentanone (MIBK)	300	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Acetone	700	<25.0	<25.0	<25.0	<25.0	<25.0	<10.0
Allyl chloride	30	<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
Bromobenzene	NL	<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
Bromodichloromethane	6	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Bromoform	40	<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
Carbon tetrachloride	3	<1.0	<1.0	<1.0	<1.0	<4.0	<4.0
Chlorobenzene	100	<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
Chloroform	30	<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
cis-1,2-Dichloroethene	50	<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
Dibromochloromethane	10	<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
Dichlorodifluoromethane	1000	<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
Diethyl ether (Ethyl ether)	1000	<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
Hexachloro-1,3-butadiene	1	<5.0	<5.0	<5.0	<5.0	<4.0	<4.0
Isopropylbenzene (Cumene)	300	<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
Methylene Chloride	5	<4.0	<4.0	<4.0	<4.0	**5.2**	<4.0
Methyl-tert-butyl ether	70	<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
n-Butylbenzene	NL	<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
o-Xylene	NL	<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
sec-Butylbenzene	NL	<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
tert-Butylbenzene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Tetrachloroethene	5	**2.2**	**2.7**	**2.9**	**4.7**	**4.8**	**4.8**
Tetrahydrofuran	100	<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
trans-1,2-Dichloroethene	100	<1.0	<4.0	<4.0	<4.0	<1.0	<1.0
trans-1,3-Dichloropropene	NL	<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
Trichlorofluoromethane	2000	<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
Xylene (Total)	10000	<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 08/18/10	MW-19 05/12/10	MW-19 02/23/10	MW-19 11/16/09	MW-19 09/24/09	MW-19 12/03/08
1,1,1,2-Tetrachloroethane	70	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
1,1,1-Trichloroethane	9000	<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	NA*
1,1,2-Trichloroethane	3	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
1,1,2-Trichlorotrifluoroethane	200000	<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	NA*
1,1-Dichloroethene	6	<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	NA*
1,2,3-Trichlorobenzene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
1,2,3-Trichloropropane	40	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
1,2,4-Trichlorobenzene	NL	<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	NA*
1,2-Dibromo-3-chloropropane	NL	<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	NA*
1,2-Dichlorobenzene	600	<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	NA*
1,2-Dichloropropane	5	<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	NA*
1,3-Dichlorobenzene	NL	<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	NA*
1,4-Dichlorobenzene	10	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
2,2-Dichloropropane	NL	<4.0	<4.0	<1.0	<4.0	<1.0	NA*
2-Butanone (MEK)	4000	<4.0	<4.0	<4.0	<4.0	**5.5**	NA*
2-Chlorotoluene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
4-Chlorotoluene	NL	<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	NA*
Acetone	700	<10.0	<10.0	<10.0	<10.0	<10.0	NA*
Allyl chloride	30	<4.0	<4.0	<4.0	<4.0	<4.0	NA*
Benzene	2	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
Bromobenzene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
Bromochloromethane	NL	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
Bromodichloromethane	6	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
Bromoform	40	<8.0	<8.0	<8.0	<8.0	<8.0	NA*
Bromomethane	10	<4.0	<4.0	<4.0	<4.0	<4.0	NA*
Carbon tetrachloride	3	<4.0	<4.0	<1.0	<4.0	<1.0	NA*
Chlorobenzene	100	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
Chloroethane	300	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
Chloroform	30	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
Chloromethane	NL	<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
cis-1,3-Dichloropropene	NL	<4.0	<4.0	<4.0	<4.0	<4.0	NA*
Dibromochloromethane	10	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
Dibromomethane	NL	<4.0	<4.0	<1.0	<1.0	<1.0	NA*
Dichlorodifluoromethane	1000	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
Dichlorofluoromethane	NL	<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	NA*
Ethylbenzene	700	<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	NA*
Isopropylbenzene (Cumene)	300	<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	NA*
Methylene Chloride	5	<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	NA*
Naphthalene	300	<4.0	<4.0	<4.0	<4.0	<4.0	NA*
n-Butylbenzene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
n-Propylbenzene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
o-Xylene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
p-Isopropyltoluene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
sec-Butylbenzene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
Styrene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
tert-Butylbenzene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
Tetrachloroethene	5	**4.2**	**7.2**	**12.9**	**13.6**	**17.4**	**2.4**
Tetrahydrofuran	100	<10.0	<10.0	<10.0	<10.0	<10.0	NA*
Toluene	1000	<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
trans-1,3-Dichloropropene	NL	<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
Trichlorofluoromethane	2000	<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
Xylene (Total)	10000	<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 02/16/12	MW-20 11/21/11	MW-20 08/28/11	MW-20 05/19/11	MW-20 03/01/11	MW-20 11/18/10
1,1,1,2-Tetrachloroethane	70	<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
1,1,2,2-Tetrachloroethane	2	<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
1,1,2-Trichlorotrifluoroethane	200000	**2.1**	**2.5**	<1.0	**2.3**	**8.6**	**2.7**
1,1-Dichloroethane	70	<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
1,1-Dichloropropene	NL	<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
1,2,3-Trichloropropane	40	<4.0	<4.0	<4.0	<4.0	<4.0	<1.0
1,2,4-Trichlorobenzene	NL	<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
1,2-Dibromo-3-chloropropane	NL	<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
1,2-Dichlorobenzene	600	<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
1,2-Dichloropropane	5	<4.0	<4.0	<4.0	<4.0	<1.0	<1.0
1,3,5-Trimethylbenzene	100	<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
1,3-Dichloropropane	NL	<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
2,2-Dichloropropane	NL	<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
2-Chlorotoluene	NL	<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
4-Methyl-2-pentanone (MIBK)	300	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Acetone	700	<25.0	<25.0	<25.0	<25.0	<25.0	<10.0
Allyl chloride	30	<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
Bromobenzene	NL	<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
Bromodichloromethane	6	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Bromoform	40	<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
Carbon tetrachloride	3	<1.0	<1.0	<1.0	<1.0	<4.0	<4.0
Chlorobenzene	100	<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
Chloroform	30	<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
cis-1,2-Dichloroethene	50	<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
Dibromochloromethane	10	<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
Dichlorodifluoromethane	1000	<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
Diethyl ether (Ethyl ether)	1000	<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
Hexachloro-1,3-butadiene	1	<5.0	<5.0	<5.0	<5.0	<4.0	<4.0
Isopropylbenzene (Cumene)	300	<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
Methylene Chloride	5	<4.0	<4.0	<4.0	<4.0	**5.2**	<4.0
Methyl-tert-butyl ether	70	<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
n-Butylbenzene	NL	<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
o-Xylene	NL	<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
sec-Butylbenzene	NL	<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
tert-Butylbenzene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Tetrachloroethene	5	**41.8**	**32.5**	**12.2**	**16.8**	**211**	**50.9**
Tetrahydrofuran	100	<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
trans-1,2-Dichloroethene	100	<1.0	<4.0	<4.0	<4.0	<1.0	<1.0
trans-1,3-Dichloropropene	NL	<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
Trichlorofluoromethane	2000	<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
Xylene (Total)	10000	<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 08/18/10	MW-20 05/12/10	MW-20 02/23/10	MW-20 11/16/09	MW-20 10/01/09	MW-20 12/10/08
1,1,1,2-Tetrachloroethane	70	<1.0	<2.0	<2.0	<2.0	<1.0	NA*
1,1,1-Trichloroethane	9000	<1.0	<2.0	<2.0	<2.0	<1.0	NA*
1,1,2,2-Tetrachloroethane	2	<1.0	<2.0	<2.0	<2.0	<1.0	NA*
1,1,2-Trichloroethane	3	<1.0	<2.0	<2.0	<2.0	<1.0	NA*
1,1,2-Trichlorotrifluoroethane	200000	**2.8**	**11.2**	**20.9**	**37.4**	**33.5**	NA*
1,1-Dichloroethane	70	<1.0	<2.0	<2.0	<2.0	<1.0	NA*
1,1-Dichloroethene	6	<1.0	<2.0	<2.0	<2.0	<1.0	<5.0
1,1-Dichloropropene	NL	<1.0	<2.0	<2.0	<2.0	<1.0	NA*
1,2,3-Trichlorobenzene	NL	<1.0	<2.0	<2.0	<2.0	<1.0	NA*
1,2,3-Trichloropropane	40	<1.0	<2.0	<2.0	<2.0	<1.0	NA*
1,2,4-Trichlorobenzene	NL	<1.0	<2.0	<2.0	<2.0	<1.0	NA*
1,2,4-Trimethylbenzene	NL	<1.0	<2.0	<2.0	<2.0	<1.0	NA*
1,2-Dibromo-3-chloropropane	NL	<4.0	<8.0	<8.0	<8.0	<4.0	NA*
1,2-Dibromoethane (EDB)	.004	<1.0	<2.0	<2.0	<2.0	<1.0	NA*
1,2-Dichlorobenzene	600	<1.0	<2.0	<2.0	<2.0	<1.0	NA*
1,2-Dichloroethane	4	<1.0	<2.0	<2.0	<2.0	<1.0	NA*
1,2-Dichloropropane	5	<1.0	<2.0	<2.0	<2.0	<1.0	NA*
1,3,5-Trimethylbenzene	100	<1.0	<2.0	<2.0	<2.0	<1.0	NA*
1,3-Dichlorobenzene	NL	<1.0	<2.0	<2.0	<2.0	<1.0	NA*
1,3-Dichloropropane	NL	<1.0	<2.0	<2.0	<2.0	<1.0	NA*
1,4-Dichlorobenzene	10	<1.0	<2.0	<2.0	<2.0	<1.0	NA*
2,2-Dichloropropane	NL	<4.0	<8.0	<2.0	<8.0	<1.0	NA*
2-Butanone (MEK)	4000	<4.0	<8.0	<8.0	<8.0	<4.0	NA*
2-Chlorotoluene	NL	<1.0	<2.0	<2.0	<2.0	<1.0	NA*
4-Chlorotoluene	NL	<1.0	<2.0	<2.0	<2.0	<1.0	NA*
4-Methyl-2-pentanone (MIBK)	300	<4.0	<8.0	<8.0	<8.0	<4.0	NA*
Acetone	700	<10.0	<20.0	<20.0	<20.0	<10.0	NA*
Allyl chloride	30	<4.0	<8.0	<8.0	<8.0	<4.0	NA*
Benzene	2	<1.0	<2.0	<2.0	<2.0	<1.0	NA*
Bromobenzene	NL	<1.0	<2.0	<2.0	<2.0	<1.0	NA*
Bromochloromethane	NL	<1.0	<2.0	<2.0	<2.0	<1.0	NA*
Bromodichloromethane	6	<1.0	<2.0	<2.0	<2.0	<1.0	NA*
Bromoform	40	<8.0	<16.0	<16.0	<16.0	<8.0	NA*
Bromomethane	10	<4.0	<8.0	<8.0	<8.0	<4.0	NA*
Carbon tetrachloride	3	<4.0	<8.0	<2.0	<8.0	<1.0	NA*
Chlorobenzene	100	<1.0	<2.0	<2.0	<2.0	<1.0	NA*
Chloroethane	300	<1.0	<2.0	<2.0	<2.0	<1.0	NA*
Chloroform	30	<1.0	<2.0	<2.0	<2.0	<1.0	NA*
Chloromethane	NL	<4.0	<8.0	**8.6**	<8.0	<4.0	NA*
cis-1,2-Dichloroethene	50	<1.0	<2.0	<2.0	<2.0	<1.0	<5.0
cis-1,3-Dichloropropene	NL	<4.0	<8.0	<8.0	<8.0	<4.0	NA*
Dibromochloromethane	10	<1.0	<2.0	<2.0	<2.0	<1.0	NA*
Dibromomethane	NL	<4.0	<8.0	<2.0	<2.0	<1.0	NA*
Dichlorodifluoromethane	1000	<1.0	<2.0	<2.0	<2.0	<1.0	NA*
Dichlorofluoromethane	NL	<1.0	<2.0	<2.0	<2.0	<1.0	NA*
Diethyl ether (Ethyl ether)	1000	<4.0	<8.0	<8.0	<8.0	<4.0	NA*
Ethylbenzene	700	<1.0	<2.0	<2.0	<2.0	<1.0	NA*
Hexachloro-1,3-butadiene	1	<4.0	<8.0	<8.0	<8.0	<4.0	NA*
Isopropylbenzene (Cumene)	300	<1.0	<2.0	<2.0	<2.0	<1.0	NA*
m&p-Xylene	NL	<2.0	<4.0	<4.0	<4.0	<2.0	NA*
Methylene Chloride	5	<4.0	<8.0	<8.0	<8.0	<4.0	NA*
Methyl-tert-butyl ether	70	<1.0	<2.0	<2.0	<2.0	<1.0	NA*
Naphthalene	300	<4.0	<8.0	<8.0	<8.0	<4.0	NA*
n-Butylbenzene	NL	<1.0	<2.0	<2.0	<2.0	<1.0	NA*
n-Propylbenzene	NL	<1.0	<2.0	<2.0	<2.0	<1.0	NA*
o-Xylene	NL	<1.0	<2.0	<2.0	<2.0	<1.0	NA*
p-Isopropyltoluene	NL	<1.0	<2.0	<2.0	<2.0	<1.0	NA*
sec-Butylbenzene	NL	<1.0	<2.0	<2.0	<2.0	<1.0	NA*
Styrene	NL	<1.0	<2.0	<2.0	<2.0	<1.0	NA*
tert-Butylbenzene	NL	<1.0	<2.0	<2.0	<2.0	<1.0	NA*
Tetrachloroethene	5	**74.7**	**194**	**402**	**307**	**713**	**599**
Tetrahydrofuran	100	<10.0	<20.0	**36.1**	<20.0	<10.0	NA*
Toluene	1000	<1.0	<2.0	<2.0	<2.0	<1.0	NA*
trans-1,2-Dichloroethene	100	<1.0	<2.0	<2.0	<2.0	<1.0	<5.0
trans-1,3-Dichloropropene	NL	<4.0	<8.0	<8.0	<8.0	<4.0	NA*
Trichloroethene	5	<1.0	**2.9**	<2.0	<2.0	<1.0	<5.0
Trichlorofluoromethane	2000	<1.0	<2.0	<2.0	<2.0	<1.0	NA*
Vinyl chloride	0.2	<0.40	<0.80	<0.80	<0.80	<0.40	<2.0
Xylene (Total)	10000	<3.0	<6.0	<6.0	<6.0	<3.0	NA*

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

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

TABLE 11

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

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

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

TABLE 11

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

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

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

TABLE 11

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

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

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

TABLE 11

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

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

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

TABLE 12

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

Monitoring Well	Date Measured	Temp (Deg. C)	Conductivity @ 25 deg. C (uS/cm)	pH	Redox Potential (Eh)	Dissolved Oxygen	Head Space (ppm)
MW-14	12/3/2008	15.1	735	7.41	228	2.6	1.752
MW-14	10/1/2009	18.8	1825	7.84	181	3.6	NR
MW-14	11/16/2009	19.22	1747	6.74	47.5	3.48	NR
MW-14	2/23/2010	18.51	1693	7.54	186	2.8	NR
MW-14	5/12/2010	18.65	1539	7.5	379	5.2	NR
MW-14	8/18/2010	19.16	1088	8.24	285	5.51	NR
MW-14	11/18/2010	19.54	1137	6.95	-42	3.49	NR
MW-14	3/1/2011	18.9	996	6.2	4.3	1.34	NR
MW-14	5/19/2011	19.38	984	7.61	-19.1	2.57	NR
MW-14	8/28/2011	19.5	1711	5.59	148	3.21	NR
MW-14	11/21/2011	19.7	1123	6.92	-14.2	3.99	NR
MW-14	2/15/2012	19.3	1174	7.44	-44.9	4.58	NR
MW-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-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-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-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

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)

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-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-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
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-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-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

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)

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-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-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-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-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

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-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*

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

Attachments

Attachment A

Attachment A - Table 1

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

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

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

Attachment A - Table 2

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

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

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.

Attachment A - Table 3

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

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

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

Attachment A - Table 4

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

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

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-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

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-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

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-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

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-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

* - temporarily operating with DPE-8 because

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)

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-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

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-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

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-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

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-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	17.6	-0.1	-0.1	17.6	-0.1
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

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

Attachment A - Table 7

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

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

Notes:

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

Attachment A - Table 7

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

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

Notes:

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

Attachment A - Table 7

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

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

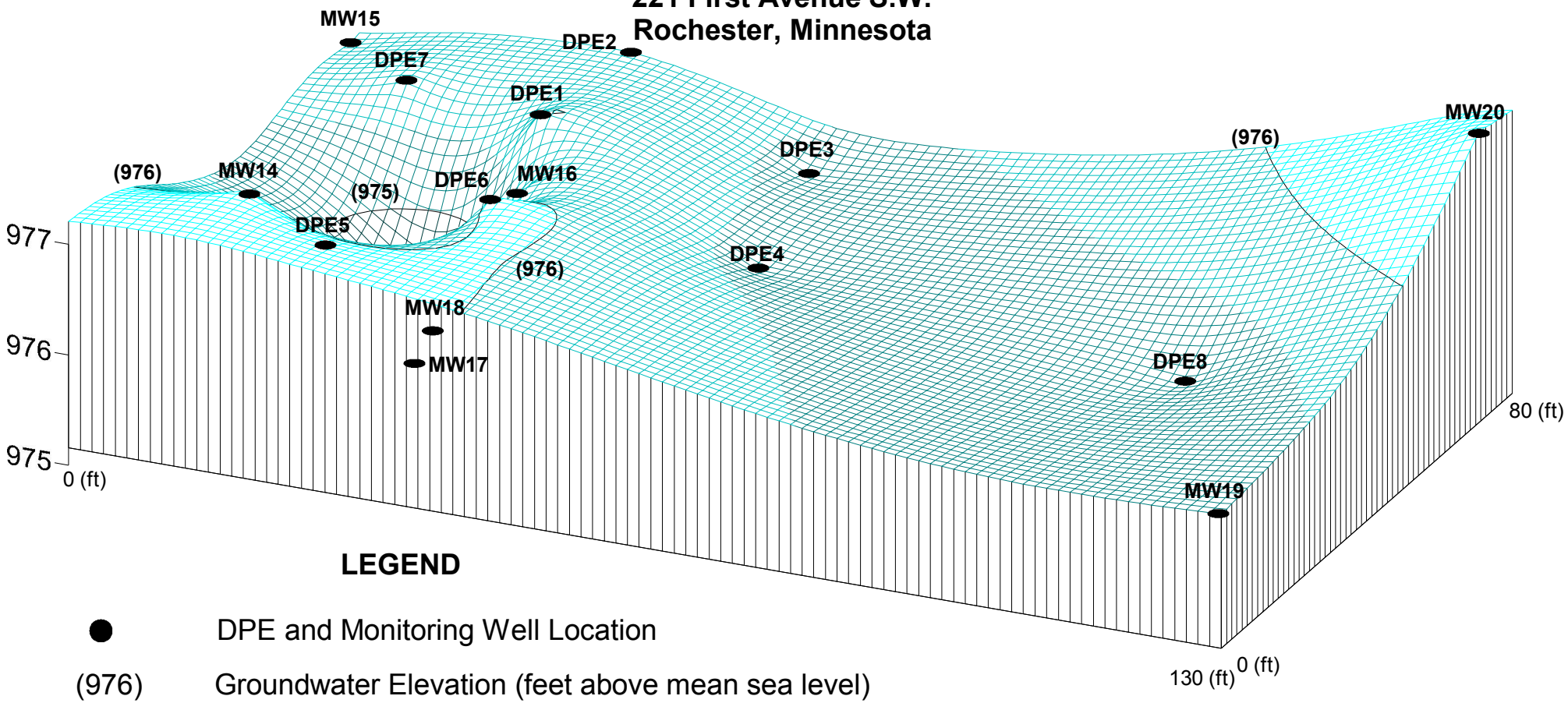
Notes:

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

ATTACHMENT A FIGURE 1A

3D GROUNDWATER FLOW INTERPRETATION
January 20, 2012

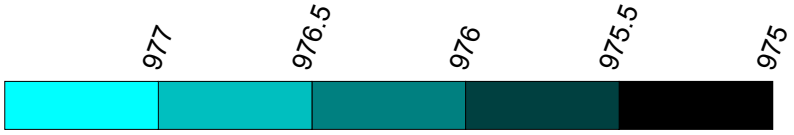
MN Bio Business Center
221 First Avenue S.W.
Rochester, Minnesota



LEGEND

● DPE and Monitoring Well Location

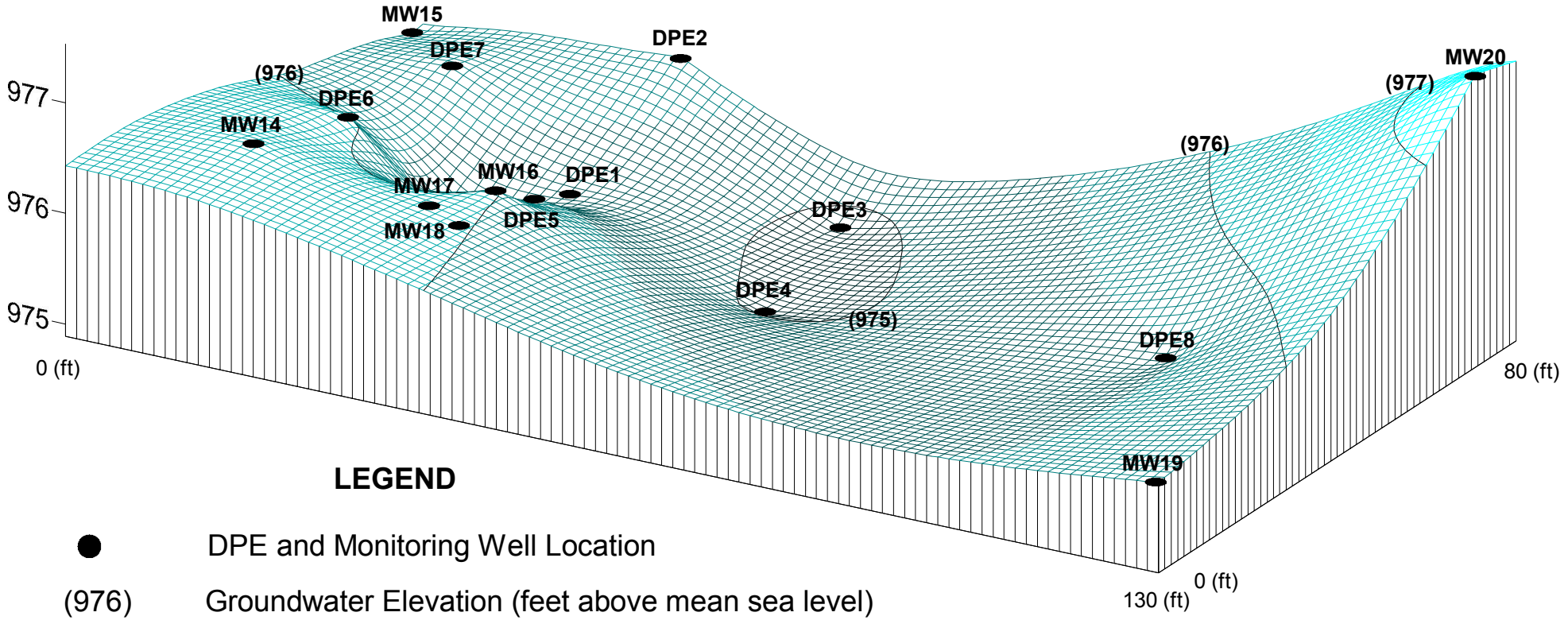
(976) Groundwater Elevation (feet above mean sea level)



ATTACHMENT A FIGURE 1B

3D GROUNDWATER FLOW INTERPRETATION
January 27, 2012

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



LEGEND

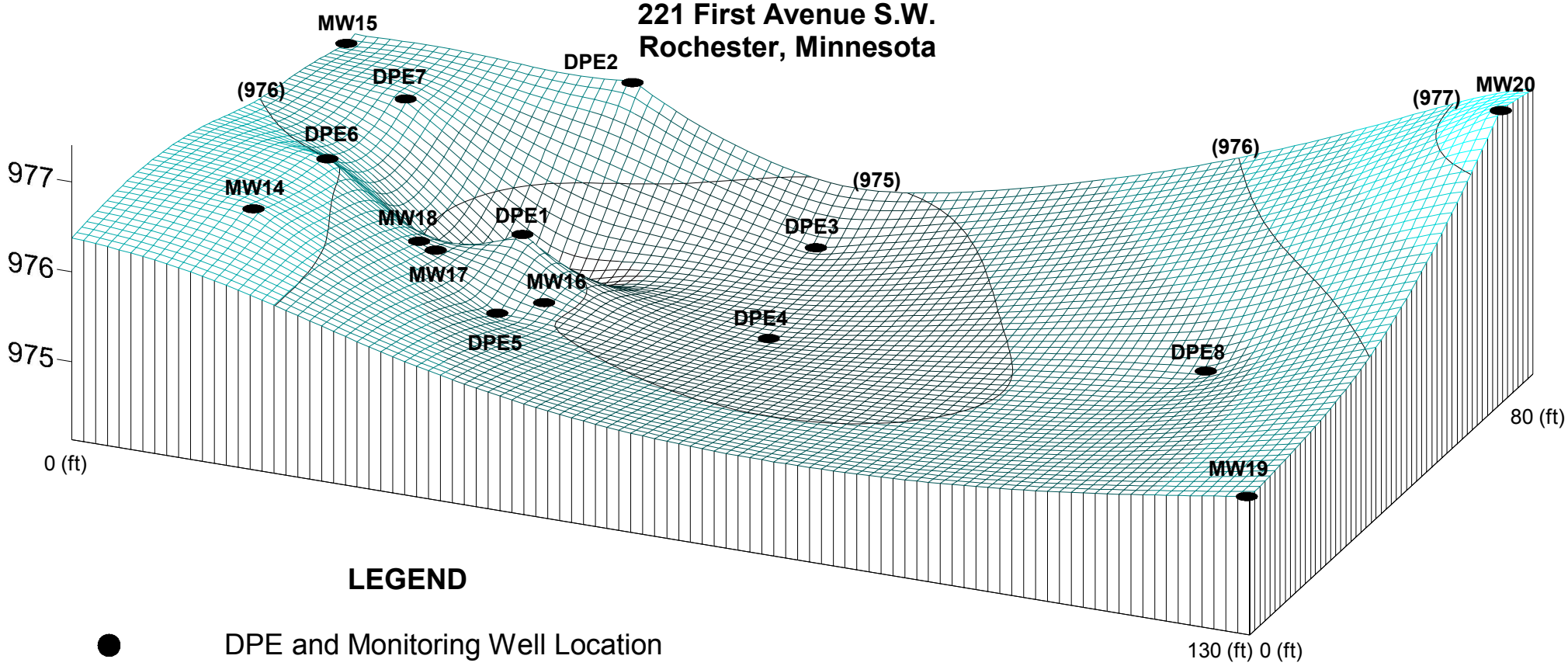
● DPE and Monitoring Well Location

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

ATTACHMENT A FIGURE 1C

3D GROUNDWATER FLOW INTERPRETATION
February 16, 2012

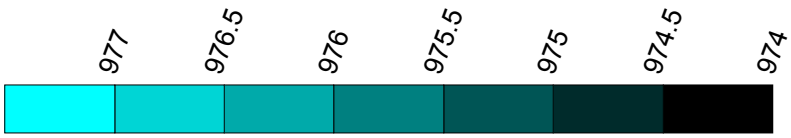
MN Bio Business Center
221 First Avenue S.W.
Rochester, Minnesota



LEGEND

● DPE and Monitoring Well Location

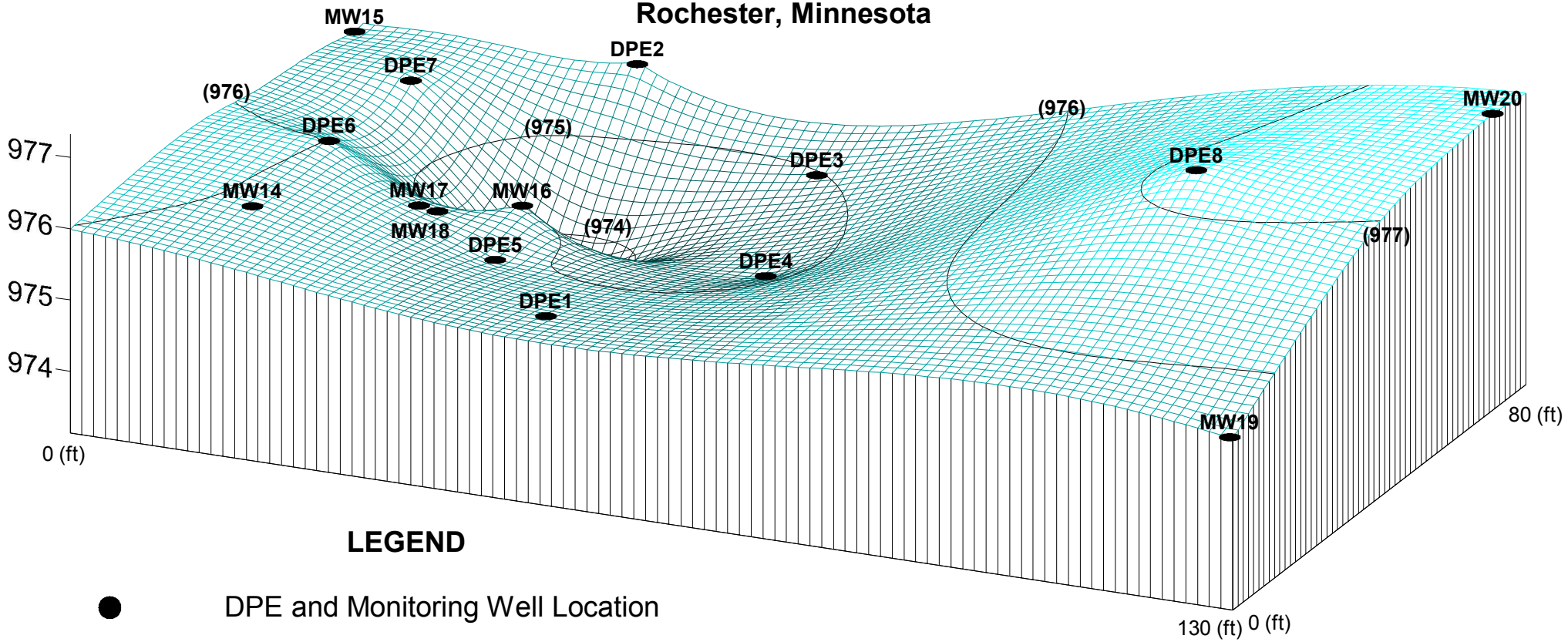
(976) Groundwater Elevation (feet above mean sea level)



ATTACHMENT A FIGURE 1D

3D GROUNDWATER FLOW INTERPRETATION
March 16, 2012

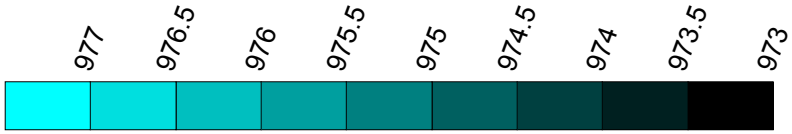
MN Bio Business Center
221 First Avenue S.W.
Rochester, Minnesota



LEGEND

● DPE and Monitoring Well Location

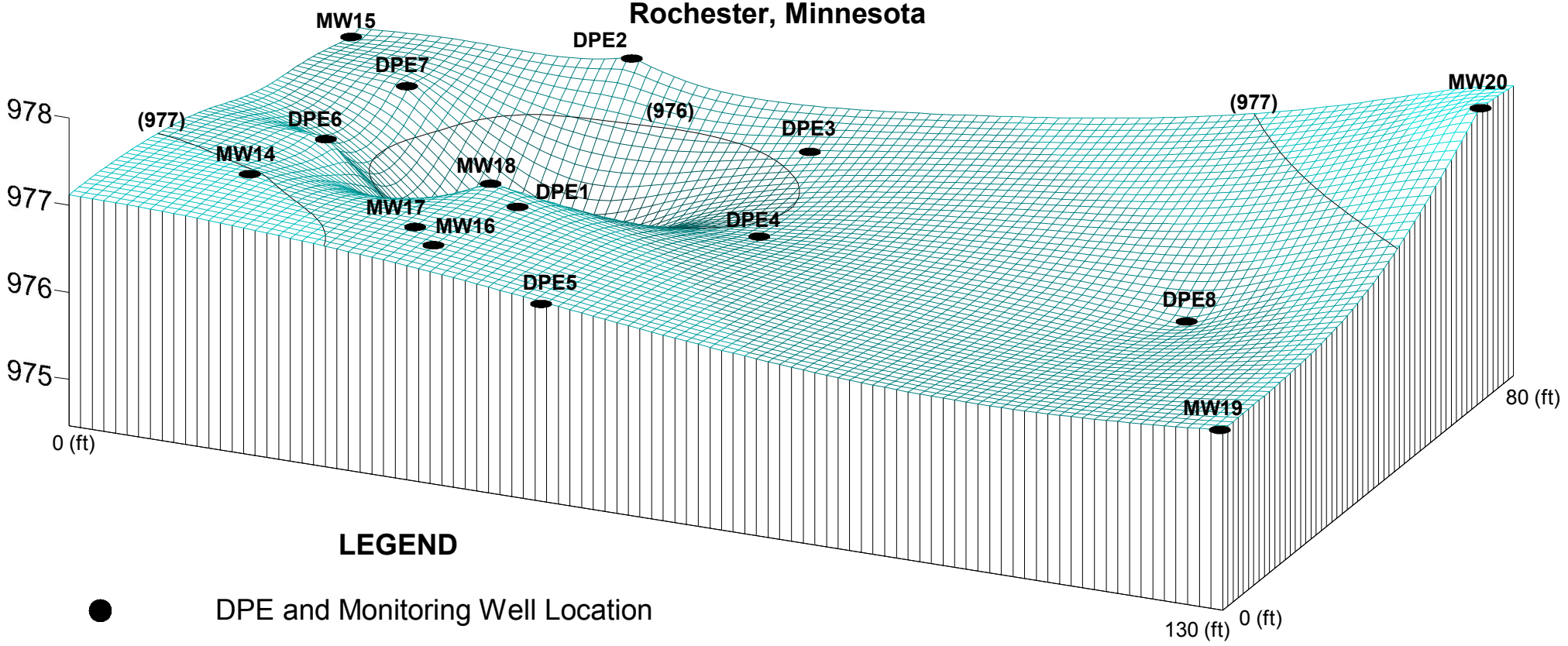
(976) Groundwater Elevation (feet above mean sea level)



ATTACHMENT A FIGURE 1E

3D GROUNDWATER FLOW INTERPRETATION
March 27, 2012

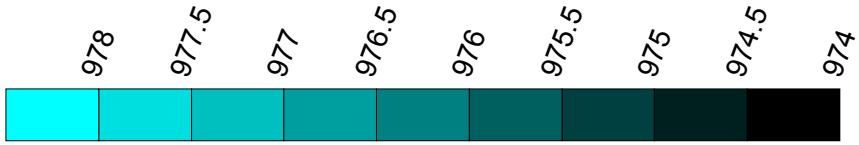
MN Bio Business Center
221 First Avenue S.W.
Rochester, Minnesota



LEGEND

● DPE and Monitoring Well Location

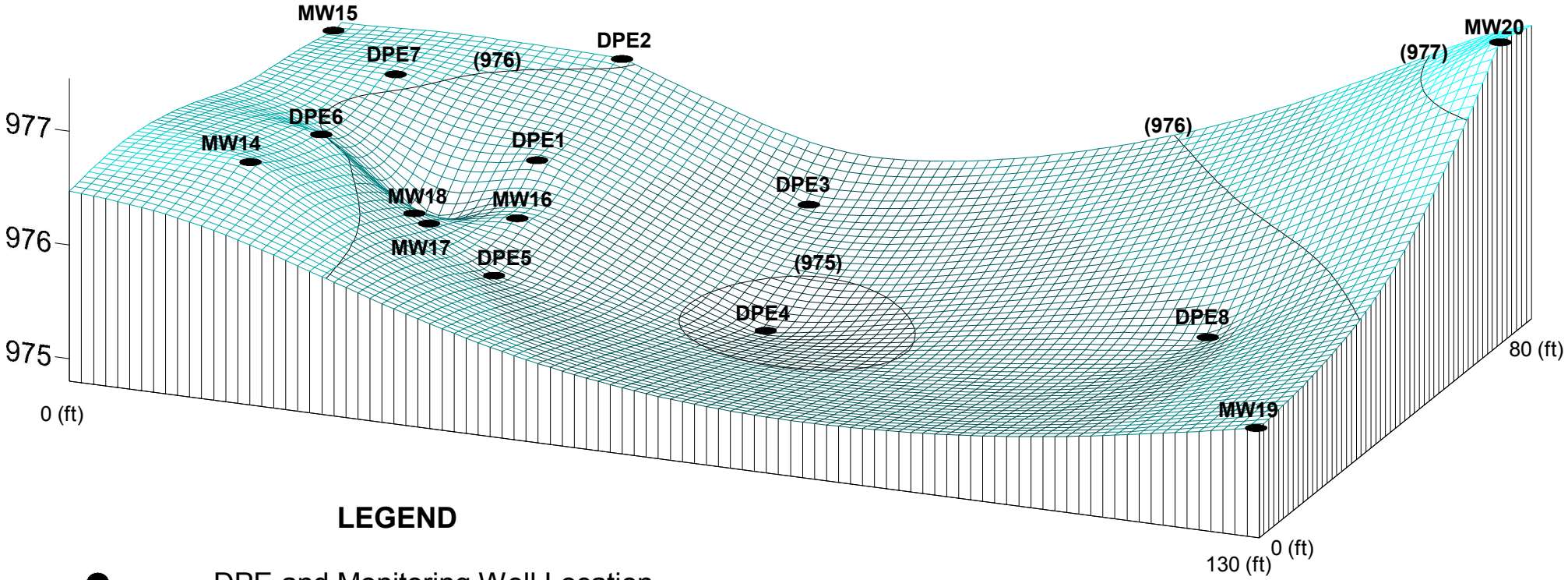
(976) Groundwater Elevation (feet above mean sea level)



ATTACHMENT A FIGURE 1F

3D GROUNDWATER FLOW INTERPRETATION
April 17, 2012

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



LEGEND

● DPE and Monitoring Well Location

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

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: 1/20/12
TIME:
RECORDED BY:

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

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

Yes — three Levels the same room alone - strange - Not boring Not Zombie

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

ANALOG PANEL READINGS #1
DPE PUMP AIR FLOW (SCFM): 44.7
DPE WELL VACUUM (IN. HG): 16.83
DPE PUMP INLET VACUUM (IN. HG): 16.87 68.00
DPE PUMP OUTLET PRESSURE (PSI): 0
DPE PUMP OUTLET TEMP (DEG. F): 201
MS PUMP WATER FLOW (GPM): 12.4

TOTAL PANEL READINGS
DPE VACUUM PUMP (HRS): 16879
MS PUMP (HRS): 1057
MS VACUUM VALVE (HRS): 199
AIR STRIPPER BLOWER (HRS): 7025
AIR STRIPPER PUMP (HRS): 493
DPE AIR FLOW (SCF): 73361000
MS PUMP WATER FLOW (GAL): 725742
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	12.29
MW-15	4	18	14.92
MW-16	10	18	12.73
MW-17	7	25	13.72
MW-18	6	60	14.42
MW-19	1	20	14.76
MW-20	8	16.7	13.71
DPE-1	15	21.9	15.39 ✓
DPE-2	13	20.5	15.94
DPE-3	14	17.1	16.15
DPE-4	12	19.3	16.08
DPE-5	9	18.1	15.39 ✓
DPE-6	5	19.5	15.39 ✓
DPE-7	2	22.2	16.68
DPE-8	11	17.5	16.74
Sump	1	7.74	7.33

FIELD MEASUREMENTS
DPE WELL CASING VACUUM (MM HG): 14.5
PRE-MANIFOLD VACUUM (IN. HG): 14.5
DPE WELL (PRE-MS-1) VACUUM (IN.HG): 14.5
POST-MS-1 VACUUM (IN. HG): 15.6
POST-MS-2 VACUUM (IN. HG): 16.5
DPE PUMP AIR FLOW (SCFM): 50
DPE EXHAUST PID CONC. (PPM): 5.7
DPE PUMP OUTLET PRESSURE (IN. H2O)): 0
DPE PUMP OUTLET TEMP (DEG. F): 196

MS PUMP WATER FLOWRATE (WHILE PUMPING) (GPM): 12.7
MS PUMP WATER PRESSURE (WHILE PUMPING) (PSI): 18
MS PUMP FLOW TOTALIZER READING (GAL): 153493

AS EXHAUST PRESSURE (IN. H20): 9.0
AS DISCHARGE PUMP PRESSURE (WHILE PUMPING) (PSI): 29
AS BLOWER PRESSURE (IN. H20): 8 16
AS EXHAUST PID (PPM): 0

ELEVATOR DRAIN TILE SUMP FLOW TOTALIZER (GAL): 541

OPERATING WATER LEVELS

DPE-1	21.9
DPE-2	20.5
DPE-3	17.0
DPE-4	19.0
DPE-5	18.0
DPE-6	19.6
DPE-7	22.0
DPE-8	17.8

SUMP ROOM PID: ND

BASEMENT PID READINGS: ND

COMMENTS/MAINTENANCE:

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

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

DATE:
TIME:
RECORDED BY:

	PID READINGS	DPE EXHAUST FLOW RATE	DPE PUMP INLET VACUUM	WELL CASING VACUUMS
DPE-1	5.7	51.6	16.79	50
DPE-2	7.2	46.3	16.76	115
DPE-3	16.2	52.3	16.03	98
DPE-4	8.0	51.3	16.41	75
DPE-5	0.0	70.7	15.29	100
DPE-6	0.0	57.8	16.12	90
DPE-7	0.0	57.8	15.9	33
DPE-8	0.6	72.7	15.22	65

Water sample

AS - IN 13:30

AS - EFF 13:35

MAINTENANCE CHECKLIST (Revised 4/13/10)

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

Date: 1/20/12

Field Represenative:

	Check Box	OBSERVATIONS AND/OR DESCRIPTION OF MAINTENANCE PERFORMED
DPE Pump Maintenance		
- Inspect Hoses, Piping and Fittings for Oil Leaks - MONTHLY	✓	
- Check Oil Level (level should show at middle of site glass) - MONTHLY	✓	
- Change Oil - MONTHLY		NO - Blower installed ↓
- Clean Pump Inlet Opening - MONTHLY		
Moisture Separator Maintenance		
- Clean Floats - MONTHLY	✓	Blower installed
- Check Sediment - MONTHLY	✓	
- Remove Sediment - MONTHLY	✓	
- Replace MS#1 Filter (5 micron) - If Pressure Drop Occurs		NA
- Replace MS#2 Filter (1 micron) - If Pressure Drop Occurs		NA
- Transfer Pump (Moyno 34401 1 HP) - Inspect Hoses, Piping and Fittings for Water Leaks - MONTHLY		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		#4 - grease manifold fairly
- Inspect - MONTHLY	✓	
- Clean - AS NEEDED	✓	
- Rebuild - AS NEEDED		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: 1/27/12
TIME:
RECORDED BY:

2009 SYSTEM STARTUP INFORMATION

Startup Date: 6/29/2009 | MS Discharge Totalizer: 68 | Sump Discharge Totalizer: 200

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

CURRENT OPERATING WELL: #2

DPE WELL BLEED VALVE % OPEN: X
DPE PUMP BLEED VALVE % OPEN: X

ANALOG PANEL READINGS 09:00

DPE PUMP AIR FLOW (SCFM): 79.3
DPE WELL VACUUM (IN. HG): 20.10
DPE PUMP INLET VACUUM (IN. HG): 20.52
DPE PUMP OUTLET PRESSURE (PSI): 0.03
DPE PUMP OUTLET TEMP (DEG. F): 245
MS PUMP WATER FLOW (GPM): 12.2

TOTAL PANEL READINGS

DPE VACUUM PUMP (HRS): 17042
MS PUMP (HRS): 1065
MS VACUUM VALVE (HRS): 199
AIR STRIPPER BLOWER (HRS): 7103
AIR STRIPPER PUMP (HRS): 498
DPE AIR FLOW (SCF): 73847000
MS PUMP WATER FLOW (GAL): 731337
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	13.06
MW-15	4	18	15.91
MW-16	10	18	13.88
MW-17	7	25	13.99
MW-18	6	60	14.53
MW-19	1	20	15.43
MW-20	8	16.7	13.95
DPE-1	15	21.9	~~19.19~~ 17.19
DPE-2	13	20.5	~~17.09~~ 16.98
DPE-3	14	17.1	~~16.98~~ 17.6
DPE-4	12	19.3	17.45
DPE-5	9	18.1	16.44
DPE-6	5	19.5	16.29
DPE-7	2	22.2	17.64
DPE-8	11	17.5	17.43
Sump	1	7.74	7.38

FIELD MEASUREMENTS

DPE WELL CASING VACUUM (MM HG): 17.4
PRE-MANIFOLD VACUUM (IN. HG): 17.5
DPE WELL (PRE-MS-1) VACUUM (IN.HG): 18.0
POST-MS-1 VACUUM (IN. HG): 18.5
POST-MS-2 VACUUM (IN. HG): 20.5
DPE PUMP AIR FLOW (SCFM): 30
DPE EXHAUST PID CONC. (PPM): 6.4
DPE PUMP OUTLET PRESSURE (IN. H2O)):
DPE PUMP OUTLET TEMP (DEG. F): 224

MS PUMP WATER FLOWRATE (WHILE PUMPING) (GPM): 12.2
MS PUMP WATER PRESSURE (WHILE PUMPING) (PSI): 17
MS PUMP FLOW TOTALIZER READING (GAL): 159260

AS EXHAUST PRESSURE (IN. H20): 0
AS DISCHARGE PUMP PRESSURE (WHILE PUMPING) (PSI): 25
AS BLOWER PRESSURE (IN. H20): 66
AS EXHAUST PID (PPM): ND

ELEVATOR DRAIN TILE SUMP FLOW TOTALIZER (GAL): 541

OPERATING WATER LEVELS

DPE-1 21.8
DPE-2 ~~17.3~~ 21.0
DPE-3 17.3
DPE-4 19.3
DPE-5 18.1
DPE-6 19.6
DPE-7 22.4
DPE-8 17.4

SUMP ROOM PID: ND

BASEMENT PID READINGS: ND

COMMENTS/MAINTENANCE:

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

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

DATE: 1/27/12
TIME:
RECORDED BY:

	PID READINGS	DPE EXHAUST FLOW RATE	DPE PUMP INLET VACUUM	WELL CASING VACUUMS
DPE-1	12.0	34.3	20.3	40
DPE-2	6.4	29.2	20.19	148
DPE-3	4.2	50.6	17.8	130
DPE-4	0.0	40.9	19.7	120
DPE-5	0.0	~~3~~67.8	~~20.3~~ 15.48	~~40~~ 110
DPE-6	0.0	46.7	10.49	105
DPE-7	0.0	~~0~~52.4	~~16.06~~ 17.66	40
DPE-8	0.0	71	15.06	80

0800 14:00

7-30 — -4

MAINTENANCE CHECKLIST (Revised 4/13/10)

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

Date: 1/27/12

Field Represenative:

	Check Box	OBSERVATIONS AND/OR DESCRIPTION OF MAINTENANCE PERFORMED
DPE Pump Maintenance		
- Inspect Hoses, Piping and Fittings for Oil Leaks - MONTHLY	✓	
- Check Oil Level (level should show at middle of site glass) - MONTHLY	✓	
- Change Oil - MONTHLY	✓	Changed + removed screen Inlet - adjusted air inlet valve
- Clean Pump Inlet Opening - MONTHLY	✓	
		Clock + Date was way off
Moisture Separator Maintenance		
- Clean Floats - MONTHLY	✓	
- Check Sediment - MONTHLY	✓	
- Remove Sediment - MONTHLY	NA	
- Replace MS#1 Filter (5 micron) - If Pressure Drop Occurs		should be done
- 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	NA	extra one down here
- 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		
- Rebuild - AS NEEDED		

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: 2/16/12
TIME:
RECORDED BY:

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

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

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

ANALOG PANEL READINGS

DPE PUMP AIR FLOW (SCFM):	27.5
DPE WELL VACUUM (IN. HG):	21.64
DPE PUMP INLET VACUUM (IN. HG):	22.08
DPE PUMP OUTLET PRESSURE (PSI):	0.02
DPE PUMP OUTLET TEMP (DEG. F):	262
MS PUMP WATER FLOW (GPM):	10.10

#2 / 09:00

TOTAL PANEL READINGS

DPE VACUUM PUMP (HRS):	17520
MS PUMP (HRS):	1090
MS VACUUM VALVE (HRS):	199
AIR STRIPPER BLOWER (HRS):	7329
AIR STRIPPER PUMP (HRS):	510
DPE AIR FLOW (SCF):	75246000
MS PUMP WATER FLOW (GAL):	746725
SUMP PUMP WATER FLOW (GAL):	~~541~~ 610

KB Not panel, Field Reading

Should re-level

FIELD MEASUREMENTS

DPE WELL CASING VACUUM (MM HG):	151
PRE-MANIFOLD VACUUM (IN. HG):	18.5
DPE WELL (PRE-MS-1) VACUUM (IN.HG):	18.0
POST-MS-1 VACUUM (IN. HG):	21
POST-MS-2 VACUUM (IN. HG):	22
DPE PUMP AIR FLOW (SCFM):	30
DPE EXHAUST PID CONC. (PPM):	6.0
DPE PUMP OUTLET PRESSURE (IN. H2O)):	0
DPE PUMP OUTLET TEMP (DEG. F):	235
MS PUMP WATER FLOWRATE (WHILE PUMPING) (GPM):	10.0
MS PUMP WATER PRESSURE (WHILE PUMPING) (PSI):	16
MS PUMP FLOW TOTALIZER READING (GAL):	175164
AS EXHAUST PRESSURE (IN. H20):	9.0
AS DISCHARGE PUMP PRESSURE (WHILE PUMPING) (PSI):	24
AS BLOWER PRESSURE (IN. H20):	16.5
AS EXHAUST PID (PPM):	ND

STATIC WATER LEVELS

		Clean to Dirty Ranking	Well Depth below TOC (FT)	Depth to Water below TOC (FT)
2	MW-14	3	17.5	13.14
3	MW-15	4	18	15.78
7	MW-16	10	18	13.99
5	MW-17	7	25	14.04
4	MW-18	6	60	14.63
1	MW-19	1	20	15.46
6	MW-20	8	16.7	14.08
	DPE-1	15	21.9	18.28
	DPE-2	13	20.5	17.06
	DPE-3	14	17.1	17.90
	DPE-4	12	19.3	17.76
	DPE-5	9	18.1	17.42
	DPE-6	5	19.5	16.28
	DPE-7	2	22.2	17.69
	DPE-8	11	17.5	17.6 - Dry
	Sump	1	7.74	7.44

OPERATING WATER LEVELS

DPE-1	21.7
DPE-2	20.0
DPE-3	17.6
DPE-4	19.2
DPE-5	18.0
DPE-6	19.3
DPE-7	22.1
DPE-8	17.6

SUMP ROOM PID: ND

BASEMENT PID READINGS: ND

COMMENTS/MAINTENANCE:
Need filters

ELEVATOR DRAIN TILE SUMP FLOW TOTALIZER (GAL): 541

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	3.5	30.6 ~~20.7~~	20.65 ~~[illegible]~~	40
DPE-2	6.0	26.7	21.6	151
DPE-3	16.8	43	18.09	147
DPE-4	8.6	37	19.17	128
DPE-5	2.2	59	15.5	110
DPE-6	0.9	37.8	18.68	108
DPE-7	0.3	42.1	18.2	50
DPE-8	0.9	63.6	15.2	80

42.5
42.43

3 gallons - acid

changed oil —

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 ~~16~~ 15, 2012

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:	13.14		19.3	1174	7.44	-44.9	4.58	
Water depth[1]:	4.36							
Well volume (gal):	0.7							
Purge method:	2" Sub							
Sample Method:	Ded Bailer							
Start time:								
Stop time:								
Duration (min.):		Odor:						
Rate, gpm:		Purge appearance:	Cloudy -					
Volume purged:		Sample appearance:						
Duplicate collected?		Comments:	dry .7 gallons					
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 ~~16~~ 15, 2012

Station: Sample time: 17:10

Casing diameter:	2"	Time/ Volume	Temp °C	Cond @ 25	pH	Eh	D.O.	Turb. NTU
Total well depth:	18							
Static water level:	15.78		18.4	841	7.61	-53	4.21	
Water depth[1]:	2.22							
Well volume (gal):	0.3							
Purge method:	2" Sub							
Sample Method:	Ded Bailer							
Start time:								
Stop time:								
Duration (min.):		Odor:						
Rate, gpm:		Purge appearance:	gray - cloudy					
Volume purged:		Sample appearance:						
Duplicate collected?		Comments:	.3 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-16 Date: February ~~16~~ 13, 2012

Station: Sample time: 20:10

Casing diameter:	2"	Time/ Volume	Temp °C	Cond @ 25	pH	Eh	D.O.	Turb. NTU
Total well depth:	18							
Static water level:	13.99		18.9	1492	7.60	-57	4.25	
Water depth[1]:	4.01							
Well volume (gal):	0.65							
Purge method:	2" Sub							
Sample Method:	Ded Bailer							
Start time:								
Stop time:								
Duration (min.):		Odor:						
Rate, gpm:		Purge appearance:	clear					
Volume purged:		Sample appearance:						
Duplicate collected?		Comments:	dry - 5 gallon					
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 ~~16~~ 15, 2012

Station: 25 Sample time: 10:20

Casing diameter:	2"	Time/ Volume	Temp °C	Cond @ 25	pH	Eh	D.O.	Turb. NTU
Total well depth:	25							
Static water level:	14.04		19.04	1349	7.45	-25	0.42	
Water depth[1]:	10.96							
Well volume (gal):	1.8							
Purge method:	2" Sub							
Sample Method:	Del Bailer							
Start time:								
Stop time:								
Duration (min.):		Odor:						
Rate, gpm:		Purge appearance:	cloudy					
Volume purged:		Sample appearance:						
Duplicate collected?		Comments:	~2 gallons					
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 ~~16~~ 15, 2012

Station: Sample time: 17:50

Casing diameter:	2"	Time/ Volume	Temp °C	Cond @ 25	pH	Eh	D.O.	Turb. NTU
Total well depth:	60							
Static water level:	14.63		18.76	1937	7.50	-86	0.71	
Water depth[1]:	45.37							
Well volume (gal):	7.4							
Purge method:	2" Sub							
Sample Method:	Ded Bailer							
Start time:								
Stop time:								
Duration (min.):		Odor:	yes					
Rate, gpm:		Purge appearance:	cloudy					
Volume purged:		Sample appearance:						
Duplicate collected?		Comments:	7 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 ~~16~~ 15, 2012

Station: Sample time: 15:45

Casing diameter:	2"	Time/ Volume	Temp °C	Cond @ 25	pH	Eh	D.O.	Turb. NTU
Total well depth:	20							
Static water level:	15.46		17.33	3772	6.23	19.7	4.23	
Water depth[1]:	4.54							
Well volume (gal):	0.74							
Purge method:	2" sub							
Sample Method:	Peristaltic							
Start time:								
Stop time:								
Duration (min.):		Odor:						
Rate, gpm:		Purge appearance:	Brown					
Volume purged:		Sample appearance:						
Duplicate collected?		Comments: Dry 3/4 gallon						
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 ~~16~~ 15, 2012

Station: Sample time: 19:00

Casing diameter:	2"	Time/ Volume	Temp °C	Cond @ 25	pH	Eh	D.O.	Turb. NTU
Total well depth:	16.7							
Static water level:	14.08		17.95	5192	6.99	-22	4.42	
Water depth[1]:	2.62							
Well volume (gal):	0.42							
Purge method:	2" Sub							
Sample Method:	Bailer							
Start time:								
Stop time:								
Duration (min.):		Odor:						
Rate, gpm:		Purge appearance:	cloudy					
Volume purged:		Sample appearance:						
Duplicate collected?		Comments:						
Sampled by:								
Others present:			Well Condition					
Analysis:	VOC filtered metal ml filter in-line filter others:							
MW:gw monitoring well WS:water supply well SW:surface water SE:sediment other:								

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

Field Information Data Sheet

Landmark Environmental, LLC

Client Name: City of Rochester – Second Quarter Sampling

Project Name: CRC Project Number: CRC-12

Location: Multiple Location Date: February 16, 2012

Station: _____ Sample time: _____

Multiple Sampling Log:		Time/ Volume	Temp °C	Cond @ 25	pH	Eh	D.O.	
Location:								
DPE-1:		06:15	18.14	1381	7.08	-26	5.04	
DPE-2:		06:30	18.6	1931	7.56	-51	2.37	
DPE-3:		07:45	17.92	4634	7.07	-25	4.85	
DPE-4:		08:00	18.20	2692	7.50	-47	4.18	
DPE-5:		08:15	18.19	2280	7.95	-72	5.11	
DPE-6:		08:30	19.07	590	7.90	-69	3.59	
DPE-7:		08:45	19.3	1478	7.50	-48	2.50	
DPE-8:		09:00	1 DRY No Sample					
Rate, gpm:								
Volume purged:								
Duplicate collected?		AS-IN 9:15 AS-OUT 9:30						
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 DATA SHEET 1 of 2 (REVISED 4/13/10)

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

DATE: 3/16/12
TIME: 1100
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):	71.2	30.4 (#4 1st, #1 2nd)
DPE WELL VACUUM (IN. HG):	14.4	20.73
DPE PUMP INLET VACUUM (IN. HG):	14.5	21.03
DPE PUMP OUTLET PRESSURE (PSI):	0.03	0.02
DPE PUMP OUTLET TEMP (DEG. F):	199	242
MS PUMP WATER FLOW (GPM):	12.4	✓

TOTAL PANEL READINGS

DPE VACUUM PUMP (HRS):	18219
MS PUMP (HRS):	1127
MS VACUUM VALVE (HRS):	199
AIR STRIPPER BLOWER (HRS):	7664
AIR STRIPPER PUMP (HRS):	530
DPE AIR FLOW (SCF):	77432000
MS PUMP WATER FLOW (GAL):	757124 ✓
SUMP PUMP WATER FLOW (GAL):	1610

FIELD MEASUREMENTS

DPE WELL CASING VACUUM (MM HG):	12.0	(18.5)
PRE-MANIFOLD VACUUM (IN. HG):	12.0	(18.5)
DPE WELL (PRE-MS-1) VACUUM (IN.HG):	12.5	(18.5)
POST-MS-1 VACUUM (IN. HG):	12.5	(19.0)
POST-MS-2 VACUUM (IN. HG):	14.0	(21)
DPE PUMP AIR FLOW (SCFM):	7.0	(30)
DPE EXHAUST PID CONC. (PPM):	NA	NA
DPE PUMP OUTLET PRESSURE (IN. H2O)):	0	0
DPE PUMP OUTLET TEMP (DEG. F):	185	270

MS PUMP WATER FLOWRATE (WHILE PUMPING) (GPM): 12.5
MS PUMP WATER PRESSURE (WHILE PUMPING) (PSI): 20
MS PUMP FLOW TOTALIZER READING (GAL): 18497-6

AS EXHAUST PRESSURE (IN. H20): 8.0
AS DISCHARGE PUMP PRESSURE (WHILE PUMPING) (PSI): 26
AS BLOWER PRESSURE (IN. H20): 16
AS EXHAUST PID (PPM): NA

Sample

STATIC WATER LEVELS

	Clean to Dirty Ranking	Well Depth below TOC (FT)	Depth to Water below TOC (FT)
MW-14	3	17.5	13.56
MW-15	4	18	13.81
MW-16	10	18	14.14
MW-17	7	25	14.11
MW-18	6	60	14.71
MW-19	1	20	15.59
MW-20	8	16.7	14.26
DPE-1	15	21.9	19.30
DPE-2	13	20.5	17.04
DPE-3	14	17.1	17.51
DPE-4	12	19.3	17.70
DPE-5	9	18.1	17.41
DPE-6	5	19.5	16.40
DPE-7	2	22.2	17.71
DPE-8	11	17.5	17.5
Sump	1	7.74	7.61

OPERATING WATER LEVELS

DPE-1	21.0
DPE-2	20.5
DPE-3	17.2
DPE-4	19.3
DPE-5	18.5
DPE-6	19.4
DPE-7	22.0
DPE-8	17.6

SUMP ROOM PID: NA

BASEMENT PID READINGS: ND

COMMENTS/MAINTENANCE:

541

MAINTENANCE CHECKLIST (Revised 4/13/10)

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

- Rebuild - AS NEEDED

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	NA	23	21.14	48"
DPE-2	NA	30	21.5	130
DPE-3	NA	44	18.2	115
DPE-4	NA	35	19.6	80
DPE-5	NA	52	17.6	80
DPE-6	NA	40	18.9	105
DPE-7	NA	46	17.9	48
DPE-8	NA	66	15.13	80

PID Failure

CAN started @ 11:06

CAN # 1637

FCS # 216

suspended test @ 11:52 - RW1 - Leaking

Restarted @ 12:43

Water @ 11:31, 11:40

MAINTENANCE CHECKLIST (Revised 4/13/10)

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

Date: 3/16/12

Field Represenative:

	Check Box	OBSERVATIONS AND/OR DESCRIPTION OF MAINTENANCE PERFORMED
DPE Pump Maintenance		
- Inspect Hoses, Piping and Fittings for Oil Leaks - MONTHLY		✓
- Check Oil Level (level should show at middle of site glass) - MONTHLY		changed oil (out of qrt)
- Change Oil - MONTHLY		✓
- Clean Pump Inlet Opening - MONTHLY		✓
Moisture Separator Maintenance		
- Clean Floats - MONTHLY		✓
- Check Sediment - MONTHLY		✓
- Remove Sediment - MONTHLY		NA
- Replace MS#1 Filter (5 micron) - If Pressure Drop Occurs		(NEED)
- 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		NA
- Clean Discharge Flow Meter - SEMI-ANNUALLY		- cleaned
Air Stripper Maintenance		
- Clean Air Stripper - ANNUALLY OR AS NEEDED		added acid
- 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		Replaced kit /
- Clean - AS NEEDED		out of parts

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

KMB

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

DATE: 8/27/12
TIME:
RECORDED BY:

2009 SYSTEM STARTUP INFORMATION

Startup Date: 6/29/2009 | MS Discharge Totalizer: 68 | Sump Discharge Totalizer: 200

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

CURRENT OPERATING WELL:

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

ANALOG PANEL READINGS

#1 07:00

DPE PUMP AIR FLOW (SCFM):	29.2
DPE WELL VACUUM (IN. HG):	20.73
DPE PUMP INLET VACUUM (IN. HG):	21.32
DPE PUMP OUTLET PRESSURE (PSI):	0
DPE PUMP OUTLET TEMP (DEG. F):	146
MS PUMP WATER FLOW (GPM):	11.91

TOTAL PANEL READINGS

DPE VACUUM PUMP (HRS):	18443
MS PUMP (HRS):	1142
MS VACUUM VALVE (HRS):	200
AIR STRIPPER BLOWER (HRS):	7767
AIR STRIPPER PUMP (HRS):	535
DPE AIR FLOW (SCF):	78086000
MS PUMP WATER FLOW (GAL):	764672
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	12.46
MW-15	4	18	15.19
MW-16	10	18	13.34
MW-17	7	25	13.59
MW-18	6	60	14.22
MW-19	1	20	14.60
MW-20	8	16.7	13.64
DPE-1	15	21.9	17.95
DPE-2	13	20.5	16.29
DPE-3	14	17.1	16.38
DPE-4	12	19.3	16.29
DPE-5	9	18.1	15.62
DPE-6	5	19.5	15.68
DPE-7	2	22.2	17.08
DPE-8	11	17.5	16.78
Sump	1	7.74	

FIELD MEASUREMENTS

DPE WELL CASING VACUUM (MM HG):	18.5
PRE-MANIFOLD VACUUM (IN. HG):	18.5
DPE WELL (PRE-MS-1) VACUUM (IN.HG):	19.0
POST-MS-1 VACUUM (IN. HG):	19.5
POST-MS-2 VACUUM (IN. HG):	21.0
DPE PUMP AIR FLOW (SCFM):	30
DPE EXHAUST PID CONC. (PPM):	10.5
DPE PUMP OUTLET PRESSURE (IN. H2O)):	0
DPE PUMP OUTLET TEMP (DEG. F):	148
MS PUMP WATER FLOWRATE (WHILE PUMPING) (GPM):	12.0
MS PUMP WATER PRESSURE (WHILE PUMPING) (PSI):	18.0
MS PUMP FLOW TOTALIZER READING (GAL):	192639
AS EXHAUST PRESSURE (IN. H20):	9
AS DISCHARGE PUMP PRESSURE (WHILE PUMPING) (PSI):	25
AS BLOWER PRESSURE (IN. H20):	16
AS EXHAUST PID (PPM):	ND
ELEVATOR DRAIN TILE SUMP FLOW TOTALIZER (GAL):	

OPERATING WATER LEVELS

DPE-1	21.6
DPE-2	20.4
DPE-3	17.2
DPE-4	19.4
DPE-5	18.0
DPE-6	19.6
DPE-7	22.1
DPE-8	17.6

SUMP ROOM PID: ND

BASEMENT PID READINGS: ND

COMMENTS/MAINTENANCE:

MW Working NO access

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	10.5	29.6	20.73	48
DPE-2	14.3	25.5	21.5	150
DPE-3	20.4	41	18.2	125
DPE-4	14.6	35	19.4	120
DPE-5	3.6	58	15.9	110
DPE-6	2.1	36	19.1	100
DPE-7	0.2	48	17.4	28
DPE-8	0.9	64	15.3	78

Increased #4
to 21.4 @ well
to 25.5 scfm
PID 14.1
175 well casing

Adjusted pressure on RW4

14.1 25.5 21.4 175

MAINTENANCE CHECKLIST (Revised 4/13/10)

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

Date: _____

Field Represenative: _____

	Check Box	OBSERVATIONS AND/OR DESCRIPTION OF MAINTENANCE PERFORMED
DPE Pump Maintenance		
- Inspect Hoses, Piping and Fittings for Oil Leaks - MONTHLY	✓	
- Check Oil Level (level should show at middle of site glass) - MONTHLY	✓	
- Change Oil - MONTHLY		yes —
- Clean Pump Inlet Opening - MONTHLY		NA
Moisture Separator Maintenance		
- Clean Floats - MONTHLY		NA
- Check Sediment - MONTHLY		NA
- Remove Sediment - MONTHLY		NA
- Replace MS#1 Filter (5 micron) - If Pressure Drop Occurs		Need
- 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		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		2 Gallons Acid
- Clean Floats - Quarterly		cleaned HL - problem
- Discharge Pump (Meyers CT10 1 HP) - Inspect Hoses, Piping and Fittings for Water Leaks - MONTHLY		NA
- Blower (16N4 TBNA 3 HP) - Inspect Hoses, Piping and Fittings for Leaks - MONTHLY		NA
Solonoid Valve Maintenance		
- Inspect - MONTHLY		NA
- Clean - AS NEEDED		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: 4/17/12
TIME: 1025
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

10:25

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

ANALOG PANEL READINGS
DPE PUMP AIR FLOW (SCFM): 31.3 #4
DPE WELL VACUUM (IN. HG): 19.21
DPE PUMP INLET VACUUM (IN. HG): 19.76
DPE PUMP OUTLET PRESSURE (PSI): 0.02
DPE PUMP OUTLET TEMP (DEG. F): 229
MS PUMP WATER FLOW (GPM): 12.2

TOTAL PANEL READINGS
DPE VACUUM PUMP (HRS): 18964
MS PUMP (HRS): 1201
MS VACUUM VALVE (HRS): 706
AIR STRIPPER BLOWER (HRS): 8019
AIR STRIPPER PUMP (HRS): 549
DPE AIR FLOW (SCF): 79504000
MS PUMP WATER FLOW (GAL): 783562
SUMP PUMP WATER FLOW (GAL): 610

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): 18.0
POST-MS-1 VACUUM (IN. HG): 18.0
POST-MS-2 VACUUM (IN. HG): 19.5
DPE PUMP AIR FLOW (SCFM): 30
DPE EXHAUST PID CONC. (PPM): 13.4
DPE PUMP OUTLET PRESSURE (IN. H2O)): 220
DPE PUMP OUTLET TEMP (DEG. F): 220

MS PUMP WATER FLOWRATE (WHILE PUMPING) (GPM): 12.2
MS PUMP WATER PRESSURE (WHILE PUMPING) (PSI): 21
MS PUMP FLOW TOTALIZER READING (GAL): 210594

AS EXHAUST PRESSURE (IN. H20): 9.5
AS DISCHARGE PUMP PRESSURE (WHILE PUMPING) (PSI): 29
AS BLOWER PRESSURE (IN. H20): 16
AS EXHAUST PID (PPM): ND

ELEVATOR DRAIN TILE SUMP FLOW TOTALIZER (GAL): 541

STATIC WATER LEVELS

	Clean to Dirty Ranking	Well Depth below TOC (FT)	Depth to Water below TOC (FT)
MW-14	3	17.5	13.00
MW-15	4	18	15.49
MW-16	10	18	13.88
MW-17	7	25	13.83
MW-18	6	60	14.26
MW-19	1	20	15.37
MW-20	8	16.7	14.03
DPE-1	15	21.9	16.67
DPE-2	13	20.5	16.76
DPE-3	14	17.1	17.28
DPE-4	12	19.3	17.61
DPE-5	9	18.1	17.08
DPE-6	5	19.5	16.19
DPE-7	2	22.2	17.41
DPE-8	11	17.5	17.49
Sump	1	7.74	7.97

OPERATING WATER LEVELS

DPE-1	21.8
DPE-2	20.6
DPE-3	17.1
DPE-4	19.6
DPE-5	18.3
DPE-6	19.7
DPE-7	22.6
DPE-8	17.9

SUMP ROOM PID: ND

BASEMENT PID READINGS: ND

COMMENTS/MAINTENANCE:

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

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

DATE: 4/17/12
TIME:
RECORDED BY:

	PID READINGS	DPE EXHAUST FLOW RATE	DPE PUMP INLET VACUUM	WELL CASING VACUUMS
DPE-1	11.3	25.5	21.05	48
DPE-2	6.4	21.6	21.69	149
DPE-3	22.5	35.2	18.74	130
DPE-4	~~19.8~~ 13.0	~~31.8~~ 31.5	19.48	130
DPE-5	4.2	46.9	16.6	110
DPE-6	1.7	32.3	19.3	100
DPE-7	0.7	34.3	18.8	49
DPE-8	1.1	55.3	15.62	75

CAN # 1071 RES - FC0254

- 26 @ 09:25

MAINTENANCE CHECKLIST (Revised 4/13/10)

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

Date: 4/17/12

Field Represenative:

	Check Box	OBSERVATIONS AND/OR DESCRIPTION OF MAINTENANCE PERFORMED
DPE Pump Maintenance		
- Inspect Hoses, Piping and Fittings for Oil Leaks - MONTHLY	✓	
- Check Oil Level (level should show at middle of site glass) - MONTHLY	✓	
- Change Oil - MONTHLY		Changed oil
- Clean Pump Inlet Opening - MONTHLY	✓	
Moisture Separator Maintenance		
- Clean Floats - MONTHLY	✓	
- Check Sediment - MONTHLY	✓	None
- Remove Sediment - MONTHLY		NA
- Replace MS#1 Filter (5 micron) - If Pressure Drop Occurs		Shown Replace
- 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		NA
- Clean Discharge Flow Meter - SEMI-ANNUALLY	✓	
Air Stripper Maintenance		
- Clean Air Stripper - ANNUALLY OR AS NEEDED		NA
- Clean Floats - Quarterly	✓	
- Discharge Pump (Meyers CT10 1 HP) - Inspect Hoses, Piping and Fittings for Water Leaks - MONTHLY	✓	
- Blower (16N4 TBNA 3 HP) - Inspect Hoses, Piping and Fittings for Leaks - MONTHLY	✓	Added 1 gallon Acid
Solonoid Valve Maintenance		
- Inspect - MONTHLY	✓	
- Clean - AS NEEDED		NA

Attachment B

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

February 02, 2012

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

RE: Project: CRC - City of Rochester
Pace Project No.: 10181660

Dear Mr. Skramstad:
Enclosed are the analytical results for sample(s) received by the laboratory on January 27, 2012. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

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

Sincerely,

Carolynne Trout

Carolynne Trout

carolynne.trout@pacelabs.com
Project Manager

Enclosures

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CERTIFICATIONS

Project: CRC - City of Rochester
Pace Project No.: 10181660

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
EPA Region 8 Certification #: Pace
Florida/NELAP Certification #: E87605
Georgia Certification #: 959
Idaho Certification #: MN00064
Illinois Certification #: 200011
Iowa Certification #: 368
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 Mexico Certification #: Pace
New York Certification #: 11647
North Carolina Certification #: 530
North Dakota Certification #: R-036
North Dakota Certification #: R-036A
Ohio VAP Certification #: CL101
Oklahoma Certification #: D9921
Oklahoma Certification #: 9507
Oregon Certification #: MN200001
Pennsylvania Certification #: 68-00563
Puerto Rico Certification
Tennessee Certification #: 02818
Texas Certification #: T104704192
Washington Certification #: C754
Wisconsin Certification #: 999407970

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SAMPLE SUMMARY

Project: CRC - City of Rochester
Pace Project No.: 10181660

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10181660001	**DPE-EXHAUST-1250**	Air	01/27/12 14:00	01/27/12 16:47

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SAMPLE ANALYTE COUNT

Project: CRC - City of Rochester
Pace Project No.: 10181660

Lab ID	Sample ID	Method	Analysts	Analytes Reported
10181660001	**DPE-EXHAUST-1250**	TO-15	CJR	61

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ANALYTICAL RESULTS

Project: CRC - City of Rochester
Pace Project No.: 10181660

Sample: DPE-EXHAUST-1250 **Lab ID: 10181660001** Collected: 01/27/12 14:00 Received: 01/27/12 16:47 Matrix: Air

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15							
Acetone	**43.6**	ug/m3	0.92	1.92		01/30/12 14:29	67-64-1	CH
Benzene	**1.4**	ug/m3	0.62	1.92		01/30/12 14:29	71-43-2	
Benzyl chloride	ND	ug/m3	2.0	1.92		01/30/12 14:29	100-44-7	
Bromodichloromethane	ND	ug/m3	2.7	1.92		01/30/12 14:29	75-27-4	
Bromoform	ND	ug/m3	4.0	1.92		01/30/12 14:29	75-25-2	
Bromomethane	ND	ug/m3	1.5	1.92		01/30/12 14:29	74-83-9	
1,3-Butadiene	ND	ug/m3	0.86	1.92		01/30/12 14:29	106-99-0	
2-Butanone (MEK)	**5.2**	ug/m3	1.2	1.92		01/30/12 14:29	78-93-3	
Carbon disulfide	ND	ug/m3	1.2	1.92		01/30/12 14:29	75-15-0	
Carbon tetrachloride	ND	ug/m3	1.2	1.92		01/30/12 14:29	56-23-5	
Chlorobenzene	ND	ug/m3	1.8	1.92		01/30/12 14:29	108-90-7	
Chloroethane	ND	ug/m3	1.0	1.92		01/30/12 14:29	75-00-3	
Chloroform	**10.3**	ug/m3	1.9	1.92		01/30/12 14:29	67-66-3	
Chloromethane	ND	ug/m3	0.81	1.92		01/30/12 14:29	74-87-3	
Cyclohexane	ND	ug/m3	1.3	1.92		01/30/12 14:29	110-82-7	
Dibromochloromethane	ND	ug/m3	3.3	1.92		01/30/12 14:29	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/m3	3.1	1.92		01/30/12 14:29	106-93-4	
1,2-Dichlorobenzene	ND	ug/m3	2.3	1.92		01/30/12 14:29	95-50-1	
1,3-Dichlorobenzene	ND	ug/m3	2.3	1.92		01/30/12 14:29	541-73-1	
1,4-Dichlorobenzene	**5.4**	ug/m3	2.3	1.92		01/30/12 14:29	106-46-7	
Dichlorodifluoromethane	ND	ug/m3	1.9	1.92		01/30/12 14:29	75-71-8	C0,IS
1,1-Dichloroethane	ND	ug/m3	1.6	1.92		01/30/12 14:29	75-34-3	
1,2-Dichloroethane	ND	ug/m3	0.79	1.92		01/30/12 14:29	107-06-2	
1,1-Dichloroethene	ND	ug/m3	1.6	1.92		01/30/12 14:29	75-35-4	
cis-1,2-Dichloroethene	**80.0**	ug/m3	1.6	1.92		01/30/12 14:29	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	1.6	1.92		01/30/12 14:29	156-60-5	
1,2-Dichloropropane	ND	ug/m3	1.8	1.92		01/30/12 14:29	78-87-5	
cis-1,3-Dichloropropene	ND	ug/m3	1.8	1.92		01/30/12 14:29	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/m3	1.8	1.92		01/30/12 14:29	10061-02-6	
Dichlorotetrafluoroethane	ND	ug/m3	2.7	1.92		01/30/12 14:29	76-14-2	
Ethanol	**249**	ug/m3	3.6	1.92		01/30/12 14:29	64-17-5	E
Ethyl acetate	ND	ug/m3	1.4	1.92		01/30/12 14:29	141-78-6	
Ethylbenzene	**3.1**	ug/m3	1.7	1.92		01/30/12 14:29	100-41-4	
4-Ethyltoluene	ND	ug/m3	4.8	1.92		01/30/12 14:29	622-96-8	
n-Heptane	**2.9**	ug/m3	1.6	1.92		01/30/12 14:29	142-82-5	
Hexachloro-1,3-butadiene	ND	ug/m3	4.2	1.92		01/30/12 14:29	87-68-3	
n-Hexane	**6.9**	ug/m3	1.4	1.92		01/30/12 14:29	110-54-3	
2-Hexanone	ND	ug/m3	1.6	1.92		01/30/12 14:29	591-78-6	
Methylene Chloride	ND	ug/m3	1.4	1.92		01/30/12 14:29	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/m3	1.6	1.92		01/30/12 14:29	108-10-1	
Methyl-tert-butyl ether	ND	ug/m3	1.4	1.92		01/30/12 14:29	1634-04-4	
Naphthalene	ND	ug/m3	5.2	1.92		01/30/12 14:29	91-20-3	
2-Propanol	**17.5**	ug/m3	4.8	1.92		01/30/12 14:29	67-63-0	
Propylene	ND	ug/m3	0.67	1.92		01/30/12 14:29	115-07-1	
Styrene	ND	ug/m3	1.7	1.92		01/30/12 14:29	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/m3	1.3	1.92		01/30/12 14:29	79-34-5	
Tetrachloroethene	**29100**	ug/m3	847	1228.8		02/01/12 06:09	127-18-4	A3

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ANALYTICAL RESULTS

Project: CRC - City of Rochester
Pace Project No.: 10181660

Sample: DPE-EXHAUST-1250 **Lab ID: 10181660001** Collected: 01/27/12 14:00 Received: 01/27/12 16:47 Matrix: Air

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15							
Tetrahydrofuran	ND	ug/m3	1.2	1.92		01/30/12 14:29	109-99-9	
Toluene	**7.5**	ug/m3	1.5	1.92		01/30/12 14:29	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/m3	1.9	1.92		01/30/12 14:29	120-82-1	
1,1,1-Trichloroethane	**51.0**	ug/m3	2.1	1.92		01/30/12 14:29	71-55-6	
1,1,2-Trichloroethane	ND	ug/m3	1.1	1.92		01/30/12 14:29	79-00-5	
Trichloroethene	**36.9**	ug/m3	1.1	1.92		01/30/12 14:29	79-01-6	
Trichlorofluoromethane	ND	ug/m3	2.1	1.92		01/30/12 14:29	75-69-4	
1,1,2-Trichlorotrifluoroethane	**56100**	ug/m3	1970	1228.8		02/01/12 06:09	76-13-1	A3
1,2,4-Trimethylbenzene	**5.6**	ug/m3	1.9	1.92		01/30/12 14:29	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/m3	1.9	1.92		01/30/12 14:29	108-67-8	
Vinyl acetate	ND	ug/m3	1.4	1.92		01/30/12 14:29	108-05-4	
Vinyl chloride	ND	ug/m3	0.50	1.92		01/30/12 14:29	75-01-4	
m&p-Xylene	**3.9**	ug/m3	3.4	1.92		01/30/12 14:29	179601-23-1	
o-Xylene	**2.3**	ug/m3	1.7	1.92		01/30/12 14:29	95-47-6	

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QUALITY CONTROL DATA

Project: CRC - City of Rochester
Pace Project No.: 10181660

QC Batch: AIR/14163 Analysis Method: TO-15
QC Batch Method: TO-15 Analysis Description: TO15 MSV AIR Low Level
Associated Lab Samples: 10181660001

METHOD BLANK: 1134368 Matrix: Air
Associated Lab Samples: 10181660001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/m3	ND	1.1	01/30/12 10:29	
1,1,2,2-Tetrachloroethane	ug/m3	ND	0.70	01/30/12 10:29	
1,1,2-Trichloroethane	ug/m3	ND	0.55	01/30/12 10:29	
1,1,2-Trichlorotrifluoroethane	ug/m3	ND	1.6	01/30/12 10:29	
1,1-Dichloroethane	ug/m3	ND	0.82	01/30/12 10:29	
1,1-Dichloroethene	ug/m3	ND	0.81	01/30/12 10:29	
1,2,4-Trichlorobenzene	ug/m3	ND	0.99	01/30/12 10:29	
1,2,4-Trimethylbenzene	ug/m3	ND	1.0	01/30/12 10:29	
1,2-Dibromoethane (EDB)	ug/m3	ND	1.6	01/30/12 10:29	
1,2-Dichlorobenzene	ug/m3	ND	1.2	01/30/12 10:29	
1,2-Dichloroethane	ug/m3	ND	0.41	01/30/12 10:29	
1,2-Dichloropropane	ug/m3	ND	0.94	01/30/12 10:29	
1,3,5-Trimethylbenzene	ug/m3	ND	1.0	01/30/12 10:29	
1,3-Butadiene	ug/m3	ND	0.45	01/30/12 10:29	
1,3-Dichlorobenzene	ug/m3	ND	1.2	01/30/12 10:29	
1,4-Dichlorobenzene	ug/m3	ND	1.2	01/30/12 10:29	
2-Butanone (MEK)	ug/m3	ND	0.60	01/30/12 10:29	
2-Hexanone	ug/m3	ND	0.83	01/30/12 10:29	
2-Propanol	ug/m3	ND	2.5	01/30/12 10:29	
4-Ethyltoluene	ug/m3	ND	2.5	01/30/12 10:29	
4-Methyl-2-pentanone (MIBK)	ug/m3	ND	0.83	01/30/12 10:29	
Acetone	ug/m3	ND	0.48	01/30/12 10:29	
Benzene	ug/m3	ND	0.32	01/30/12 10:29	
Benzyl chloride	ug/m3	ND	1.0	01/30/12 10:29	
Bromodichloromethane	ug/m3	ND	1.4	01/30/12 10:29	
Bromoform	ug/m3	ND	2.1	01/30/12 10:29	
Bromomethane	ug/m3	ND	0.79	01/30/12 10:29	
Carbon disulfide	ug/m3	ND	0.63	01/30/12 10:29	
Carbon tetrachloride	ug/m3	ND	0.64	01/30/12 10:29	
Chlorobenzene	ug/m3	ND	0.94	01/30/12 10:29	
Chloroethane	ug/m3	ND	0.54	01/30/12 10:29	
Chloroform	ug/m3	ND	0.99	01/30/12 10:29	
Chloromethane	ug/m3	ND	0.42	01/30/12 10:29	
cis-1,2-Dichloroethene	ug/m3	ND	0.81	01/30/12 10:29	
cis-1,3-Dichloropropene	ug/m3	ND	0.92	01/30/12 10:29	
Cyclohexane	ug/m3	ND	0.68	01/30/12 10:29	
Dibromochloromethane	ug/m3	ND	1.7	01/30/12 10:29	
Dichlorodifluoromethane	ug/m3	ND	1.0	01/30/12 10:29	
Dichlorotetrafluoroethane	ug/m3	ND	1.4	01/30/12 10:29	
Ethanol	ug/m3	ND	1.9	01/30/12 10:29	
Ethyl acetate	ug/m3	ND	0.73	01/30/12 10:29	
Ethylbenzene	ug/m3	ND	0.88	01/30/12 10:29	
Hexachloro-1,3-butadiene	ug/m3	ND	2.2	01/30/12 10:29	

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QUALITY CONTROL DATA

Project: CRC - City of Rochester
Pace Project No.: 10181660

METHOD BLANK: 1134368 Matrix: Air

Associated Lab Samples: 10181660001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
m&p-Xylene	ug/m3	ND	1.8	01/30/12 10:29	
Methyl-tert-butyl ether	ug/m3	ND	0.73	01/30/12 10:29	
Methylene Chloride	ug/m3	ND	0.71	01/30/12 10:29	
n-Heptane	ug/m3	ND	0.83	01/30/12 10:29	
n-Hexane	ug/m3	ND	0.72	01/30/12 10:29	
Naphthalene	ug/m3	ND	2.7	01/30/12 10:29	
o-Xylene	ug/m3	ND	0.88	01/30/12 10:29	
Propylene	ug/m3	ND	0.35	01/30/12 10:29	
Styrene	ug/m3	ND	0.87	01/30/12 10:29	
Tetrachloroethene	ug/m3	ND	0.69	01/30/12 10:29	
Tetrahydrofuran	ug/m3	ND	0.60	01/30/12 10:29	
Toluene	ug/m3	ND	0.77	01/30/12 10:29	
trans-1,2-Dichloroethene	ug/m3	ND	0.81	01/30/12 10:29	
trans-1,3-Dichloropropene	ug/m3	ND	0.92	01/30/12 10:29	
Trichloroethene	ug/m3	ND	0.55	01/30/12 10:29	
Trichlorofluoromethane	ug/m3	ND	1.1	01/30/12 10:29	
Vinyl acetate	ug/m3	ND	0.71	01/30/12 10:29	
Vinyl chloride	ug/m3	ND	0.26	01/30/12 10:29	

LABORATORY CONTROL SAMPLE: 1134369

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/m3	55.5	66.6	120	72-129	
1,1,2,2-Tetrachloroethane	ug/m3	69.8	78.4	112	73-131	
1,1,2-Trichloroethane	ug/m3	55.5	60.7	109	71-128	
1,1,2-Trichlorotrifluoroethane	ug/m3	77.9	91.8	118	65-132	
1,1-Dichloroethane	ug/m3	41.2	49.1	119	67-132	
1,1-Dichloroethene	ug/m3	40.3	48.9	121	68-134	
1,2,4-Trichlorobenzene	ug/m3	75.5	97.5	129	48-150	
1,2,4-Trimethylbenzene	ug/m3	50	60.1	120	72-127	
1,2-Dibromoethane (EDB)	ug/m3	78.1	86.0	110	75-130	
1,2-Dichlorobenzene	ug/m3	61.2	70.5	115	71-132	
1,2-Dichloroethane	ug/m3	41.2	52.2	127	70-131	
1,2-Dichloropropane	ug/m3	47	53.6	114	73-130	
1,3,5-Trimethylbenzene	ug/m3	50	60.5	121	70-133	
1,3-Butadiene	ug/m3	22.5	25.6	114	69-132	
1,3-Dichlorobenzene	ug/m3	61.2	70.8	116	71-128	
1,4-Dichlorobenzene	ug/m3	61.2	71.4	117	72-131	
2-Butanone (MEK)	ug/m3	30	32.1	107	69-131	
2-Hexanone	ug/m3	41.7	45.3	109	71-134	
2-Propanol	ug/m3	25	31.5	126	72-132	
4-Ethyltoluene	ug/m3	50	58.8	118	71-129	
4-Methyl-2-pentanone (MIBK)	ug/m3	41.7	44.6	107	69-135	
Acetone	ug/m3	24.2	31.9	132	61-139	CH
Benzene	ug/m3	32.5	36.4	112	69-134	

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(612)607-1700

QUALITY CONTROL DATA

Project: CRC - City of Rochester
Pace Project No.: 10181660

LABORATORY CONTROL SAMPLE: 1134369

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Benzyl chloride	ug/m3	52.5	60.2	115	70-129	
Bromodichloromethane	ug/m3	68.2	80.2	118	71-130	
Bromoform	ug/m3	105	116	111	70-130	
Bromomethane	ug/m3	39.5	42.6	108	69-125	
Carbon disulfide	ug/m3	31.7	34.6	109	66-131	
Carbon tetrachloride	ug/m3	64	52.2	82	68-128	
Chlorobenzene	ug/m3	46.8	51.9	111	75-128	
Chloroethane	ug/m3	26.8	28.6	107	66-131	
Chloroform	ug/m3	49.7	58.1	117	68-132	
Chloromethane	ug/m3	21	26.9	128	60-139	
cis-1,2-Dichloroethene	ug/m3	40.3	42.9	106	73-130	
cis-1,3-Dichloropropene	ug/m3	46.2	50.3	109	74-134	
Cyclohexane	ug/m3	35	44.9	128	67-136	
Dibromochloromethane	ug/m3	86.6	96.8	112	69-131	
Dichlorodifluoromethane	ug/m3	50.3	63.1	125	67-131	
Dichlorotetrafluoroethane	ug/m3	71.1	86.8	122	66-130	
Ethanol	ug/m3	19.2	21.3	111	69-131	
Ethyl acetate	ug/m3	36.6	41.7	114	71-131	
Ethylbenzene	ug/m3	44.2	50.2	114	69-139	
Hexachloro-1,3-butadiene	ug/m3	108	208	192	41-150	CH,L3
m&p-Xylene	ug/m3	88.3	107	121	66-137	
Methyl-tert-butyl ether	ug/m3	36.7	43.3	118	70-132	
Methylene Chloride	ug/m3	35.3	44.6	126	73-134	
n-Heptane	ug/m3	41.7	49.5	119	70-134	
n-Hexane	ug/m3	35.8	42.8	119	65-133	
Naphthalene	ug/m3	53.3	70.1	131	57-150	CH
o-Xylene	ug/m3	44.2	51.7	117	69-138	
Propylene	ug/m3	17.5	21.0	120	70-134	
Styrene	ug/m3	43.3	48.0	111	72-132	
Tetrachloroethene	ug/m3	69	77.9	113	70-130	
Tetrahydrofuran	ug/m3	30	32.3	108	74-128	SS
Toluene	ug/m3	38.3	42.1	110	71-132	
trans-1,2-Dichloroethene	ug/m3	40.3	44.4	110	72-128	
trans-1,3-Dichloropropene	ug/m3	46.2	50.4	109	73-130	
Trichloroethene	ug/m3	54.6	59.7	109	72-131	
Trichlorofluoromethane	ug/m3	57.1	72.3	127	66-129	
Vinyl acetate	ug/m3	35.8	43.7	122	71-131	
Vinyl chloride	ug/m3	26	28.5	110	70-131	

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QUALIFIERS

Project: CRC - City of Rochester
Pace Project No.: 10181660

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.

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.

SAMPLE QUALIFIERS

Sample: 10181660001

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

ANALYTE QUALIFIERS

A3	The sample was analyzed by serial dilution.
C0	Result confirmed by second analysis.
CH	The continuing calibration for this compound is outside of Pace Analytical acceptance limits. The results may be biased high.
E	Analyte concentration exceeded the calibration range. The reported result is estimated.
IS	The internal standard recovery associated with this result exceeds the lower control limit. The reported result should be considered an estimated value.
L3	Analyte recovery in the laboratory control sample (LCS) exceeded QC limits. Analyte presence below reporting limits in associated samples. Results unaffected by high bias.
SS	This analyte did not meet the secondary source verification criteria for the initial calibration. The reported result should be considered an estimated value.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: CRC - City of Rochester
Pace Project No.: 10181660

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10181660001	**DPE-EXHAUST-1250**	TO-15	AIR/14163		

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Data File: \\192.168.10.12\chem\10airD.i\013012.b\03015.D
Report Date: 01-Feb-2012 09:10

Pace Analytical Services

TENTATIVELY IDENTIFIED COMPOUNDS

Client Name:
Lab Smp Id: 10181660001
Operator : CJR
Sample Location:
Sample Matrix: AIR
Analysis Type: VOA
Inj Date: 30-JAN-2012 14:29

Client SDG: 013012.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	2.928	2930	J
2.	79-38-9	Ethene, chlorotrifluoro-	3.052	174	NJ
3.		Unknown	3.163	474	J
4.		Unknown	3.267	85.2	J
5.	541-05-9	Cyclotrisiloxane, hexamethy	9.001	7.91	NJ
6.		Unknown	12.740	97.8	J
7.		Unknown	13.103	3.59	J
8.	138-86-3	Limonene	14.011	16.1	NJ
9.		Unknown	14.456	4.17	J
10.		Unknown	14.531	3.40	J

Data File: \\192.168.10.12\chem\10airD.i\013012.b\03015.D
Report Date: 01-Feb-2012 09:10

Pace Analytical Services

TO15 Analysis (UNIX)

Data file : \\192.168.10.12\chem\10airD.i\013012.b\03015.D
Lab Smp Id: 10181660001
Inj Date : 30-JAN-2012 14:29
Operator : CJR Inst ID: 10airD.i
Smp Info :
Misc Info : 14163
Comment : Volatile Organic COMPOUNDS in Air
Method : \\192.168.10.12\chem\10airD.i\013012.b\TO15_011-12.m
Meth Date : 31-Jan-2012 09:02 creindl Quant Type: ISTD
Cal Date : 11-JAN-2012 16:08 Cal File: 01113.D
Als bottle: 15
Dil Factor: 1.92000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Uf * CpndVariable

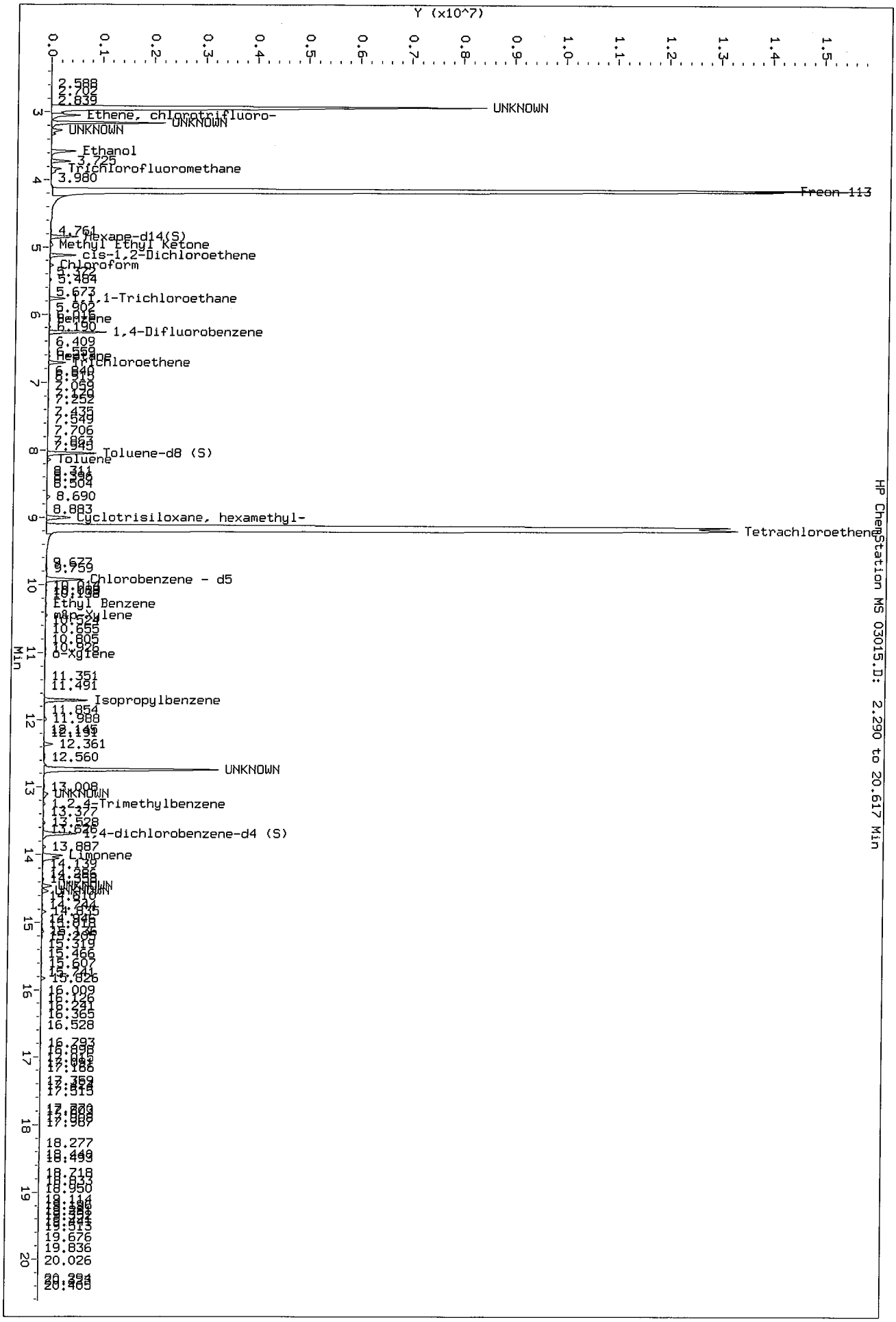
Name	Value	Description
DF	1.920	Dilution Factor
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

	COMPOUND	RT	AREA	AMOUNT
9	Ethanol	3.578	943187	67.731
55	Tetrachloroethene	9.131	71649405	292.159
69	1,2,4-Trimethylbenzene	13.260	86816	0.579
$ 72	1,4-dichlorobenzene-d4	13.698	1599883	9.212

	CONCENTRATIONS				QUANT		
RT	AREA	ON-COL(ppbv)	FINAL(ppbv)	QUAL	LIBRARY	LIB ENTRY	CPND #
Unknown				CAS #:			
2.928	21257890	1526.54103	2930	0		0	9
Ethene, chlorotrifluoro-				CAS #: 79-38-9			
3.052	1258643	90.3838554	174	96	NBS75K.l	64250	9
Unknown				CAS #:			
3.163	3441146	247.110597	474	0		0	9
Unknown				CAS #:			
3.267	617935	44.3742254	85.2	0		0	9

Data File: \\192.168.10.12\chem\10airD.i\013012.b\03015.D
Report Date: 01-Feb-2012 09:10

		CONCENTRATIONS			QUANT		
RT	AREA	ON-COL(ppbv)	FINAL(ppbv)	QUAL	LIBRARY	LIB ENTRY	CPND #
====	====	==========	==========	====	=======	=========	======
Cyclotrisiloxane, hexamethyl-				CAS #: 541-05-9			
9.001	1010478	4.12033823	7.91	91	NBS75K.l	70586	55
Unknown				CAS #:			
12.740	7635155	50.9441090	97.8	0		0	69
Unknown				CAS #:			
13.103	280330	1.87044812	3.59	0		0	69
Limonene				CAS #: 138-86-3			
14.011	1455853	8.38241967	16.1	94	NBS75K.l	65776	72
Unknown				CAS #:			
14.456	377280	2.17227972	4.17	0		0	72
Unknown				CAS #:			
14.531	307502	1.77051394	3.40	0		0	72


Data File: \\192.168.10.12\chem\10airD.i\013012.b\03015.D
Injection Date: 30-JAN-2012 14:29
Instrument: 10airD.i
Client Sample ID:
Y (x10^7)
0.0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1.0
1.1
1.2
1.3
1.4
1.5
2.588
2.707
2.839
UNKNOWN
Ethene, chlorotrifluoro-
UNKNOWN
UNKNOWN
Ethanol
3.725
Trichlorofluoromethane
3.980
Freon 113
4.761
Hexane-d14(S)
Methyl Ethyl Ketone
cis-1,2-Dichloroethene
Chloroform
5.422
5.484
5.673
1,1,1-Trichloroethane
5.902
6.016
Benzene
6.190
1,4-Difluorobenzene
6.409
6.550
Heptane
Trichloroethene
6.848
6.910
7.059
7.170
7.252
7.435
7.549
7.706
7.823
7.943
Toluene-d8 (S)
Toluene
8.311
8.504
8.690
8.883
Cyclotrisiloxane, hexamethyl-
Tetrachloroethene
9.677
9.759
Chlorobenzene - d5
Ethyl Benzene
m&p-xylene
10.655
10.805
o-xylene
11.351
11.491
Isopropylbenzene
11.854
11.988
12.361
12.560
UNKNOWN
13.008
UNKNOWN
1,2,4-Trimethylbenzene
13.377
13.528
1,4-dichlorobenzene-d4 (S)
13.887
Limonene
14.139
14.244
14.845
15.009
15.319
15.466
15.607
15.826
16.009
16.126
16.241
16.365
16.528
16.793
17.359
17.515
17.987
18.277
18.499
18.718
18.950
19.114
19.513
19.676
19.836
20.026
Min
HP ChemStation MS 03015.D: 2.290 to 20.617 Min

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CHAIN-OF-CUSTODY / Analytical Request Document

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

70181660

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

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☐ OTHER_____

SITE LOCATION ☐ GA ☐ IL ☐ IN ☐ MI ☐ NC ☐ OH ☐ SC ☐ WI ☐ OTHER____

Section D Required Client Information

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

Valid Matrix Codes

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

ITEM #	SAMPLE ID	MATRIX CODE	SAMPLE TYPE G=GRAB C=COMP	COLLECTED COMPOSITE START DATE	COLLECTED COMPOSITE START TIME	COLLECTED COMPOSITE END/GRAB DATE	COLLECTED COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	#OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Filtered (Y/N)	Requested Analysis: TO-15	Pace Project Number / Lab I.D.
1	DPE-EXHAUST-1250	A	C	1/27/12	8:00	1/27/12	14:00												X	
2																				
3																				
4																				
5																				
6																				
7																				
8																				
5																				
6																				
7																				
8																				

Additional Comments:

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
				1-27-12	1647	Amb	Y/N	Y/N	Y/N
							Y/N	Y/N	Y/N
							Y/N	Y/N	Y/N
							Y/N	Y/N	Y/N

SAMPLER NAME AND SIGNATURE		Temp in °C	Received on Ice	Custody Sealed Cooler	Samples Intact
PRINT Name of SAMPLER:	Eric Gabrielson				
SIGNATURE of SAMPLER:	DATE Signed (MM / DD / YY): 1/27/12				

Pace Analytical™

AIR Sample Condition Upon Receipt

10181660

Client Name: LANDMARK ENVIRO Project # ~~10181660~~ 1-27-12 (NS)

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☐ Client ☑ Commercial ☐ Pace Other_____

Custody Seal on Cooler/Box Present: ☐ yes ☑ no Seals intact: ☐ yes ☐ no

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

Optional
Proj. Due Date:
Proj. Name:

Tracking #: –

Date and Initials of person examining contents: 1-27-12 (NS)

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

Samples Received: 1CAN 1FC

Canisters		Flow Controllers		Stand Alone G		Tedlar Bags	
Sample Number	Can ID	Sample Number	Can ID	Sample Number	Can ID	Sample Number	Can ID
DPE-Exhaust	1250		0328				

Client Notification/ Resolution: Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: CMT **Date:** 1/30/12

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

A106 Rev.01 (22May2009)

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

February 24, 2012

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

RE: Project: CRC City of Rochester
Pace Project No.: 10183340

Dear Mr. Skramstad:
Enclosed are the analytical results for sample(s) received by the laboratory on February 17, 2012. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

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

Sincerely,

Carol Davy for
Carolynne Trout
carolynne.trout@pacelabs.com
Project Manager

Enclosures

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CERTIFICATIONS

Project: CRC City of Rochester
Pace Project No.: 10183340

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
EPA Region 8 Certification #: Pace
Florida/NELAP Certification #: E87605
Georgia Certification #: 959
Idaho Certification #: MN00064
Illinois Certification #: 200011
Iowa Certification #: 368
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 Mexico Certification #: Pace
New York Certification #: 11647
North Carolina Certification #: 530
North Dakota Certification #: R-036
North Dakota Certification #: R-036A
Ohio VAP Certification #: CL101
Oklahoma Certification #: D9921
Oklahoma Certification #: 9507
Oregon Certification #: MN200001
Pennsylvania Certification #: 68-00563
Puerto Rico Certification
Tennessee Certification #: 02818
Texas Certification #: T104704192
Washington Certification #: C754
Wisconsin Certification #: 999407970

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SAMPLE SUMMARY

Project: CRC City of Rochester
Pace Project No.: 10183340

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10183340001	**DPE-EXHAUST-1289**	Air	02/16/12 11:30	02/17/12 13:11

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SAMPLE ANALYTE COUNT

Project: CRC City of Rochester
Pace Project No.: 10183340

Lab ID	Sample ID	Method	Analysts	Analytes Reported
10183340001	**DPE-EXHAUST-1289**	TO-15	DR1	61

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ANALYTICAL RESULTS

Project: CRC City of Rochester
Pace Project No.: 10183340

Sample: DPE-EXHAUST-1289 **Lab ID: 10183340001** Collected: 02/16/12 11:30 Received: 02/17/12 13:11 Matrix: Air

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15							
Acetone	ND	ug/m3	247	515.2		02/20/12 18:28	67-64-1	
Benzene	ND	ug/m3	167	515.2		02/20/12 18:28	71-43-2	
Benzyl chloride	ND	ug/m3	541	515.2		02/20/12 18:28	100-44-7	
Bromodichloromethane	ND	ug/m3	721	515.2		02/20/12 18:28	75-27-4	
Bromoform	ND	ug/m3	1080	515.2		02/20/12 18:28	75-25-2	
Bromomethane	ND	ug/m3	407	515.2		02/20/12 18:28	74-83-9	
1,3-Butadiene	ND	ug/m3	232	515.2		02/20/12 18:28	106-99-0	
2-Butanone (MEK)	ND	ug/m3	309	515.2		02/20/12 18:28	78-93-3	
Carbon disulfide	ND	ug/m3	325	515.2		02/20/12 18:28	75-15-0	
Carbon tetrachloride	ND	ug/m3	330	515.2		02/20/12 18:28	56-23-5	
Chlorobenzene	ND	ug/m3	484	515.2		02/20/12 18:28	108-90-7	
Chloroethane	ND	ug/m3	278	515.2		02/20/12 18:28	75-00-3	
Chloroform	ND	ug/m3	510	515.2		02/20/12 18:28	67-66-3	
Chloromethane	ND	ug/m3	216	515.2		02/20/12 18:28	74-87-3	
Cyclohexane	ND	ug/m3	350	515.2		02/20/12 18:28	110-82-7	
Dibromochloromethane	ND	ug/m3	876	515.2		02/20/12 18:28	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/m3	824	515.2		02/20/12 18:28	106-93-4	
1,2-Dichlorobenzene	ND	ug/m3	618	515.2		02/20/12 18:28	95-50-1	
1,3-Dichlorobenzene	ND	ug/m3	618	515.2		02/20/12 18:28	541-73-1	
1,4-Dichlorobenzene	ND	ug/m3	618	515.2		02/20/12 18:28	106-46-7	
Dichlorodifluoromethane	ND	ug/m3	515	515.2		02/20/12 18:28	75-71-8	
1,1-Dichloroethane	ND	ug/m3	422	515.2		02/20/12 18:28	75-34-3	
1,2-Dichloroethane	ND	ug/m3	211	515.2		02/20/12 18:28	107-06-2	
1,1-Dichloroethene	ND	ug/m3	417	515.2		02/20/12 18:28	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	417	515.2		02/20/12 18:28	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	417	515.2		02/20/12 18:28	156-60-5	
1,2-Dichloropropane	ND	ug/m3	484	515.2		02/20/12 18:28	78-87-5	
cis-1,3-Dichloropropene	ND	ug/m3	474	515.2		02/20/12 18:28	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/m3	474	515.2		02/20/12 18:28	10061-02-6	
Dichlorotetrafluoroethane	ND	ug/m3	721	515.2		02/20/12 18:28	76-14-2	
Ethanol	ND	ug/m3	979	515.2		02/20/12 18:28	64-17-5	
Ethyl acetate	ND	ug/m3	376	515.2		02/20/12 18:28	141-78-6	
Ethylbenzene	ND	ug/m3	453	515.2		02/20/12 18:28	100-41-4	
4-Ethyltoluene	ND	ug/m3	1290	515.2		02/20/12 18:28	622-96-8	
n-Heptane	ND	ug/m3	428	515.2		02/20/12 18:28	142-82-5	
Hexachloro-1,3-butadiene	ND	ug/m3	1130	515.2		02/20/12 18:28	87-68-3	
n-Hexane	**585**	ug/m3	371	515.2		02/20/12 18:28	110-54-3	
2-Hexanone	ND	ug/m3	428	515.2		02/20/12 18:28	591-78-6	
Methylene Chloride	**1390**	ug/m3	366	515.2		02/20/12 18:28	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/m3	428	515.2		02/20/12 18:28	108-10-1	
Methyl-tert-butyl ether	ND	ug/m3	376	515.2		02/20/12 18:28	1634-04-4	
Naphthalene	ND	ug/m3	1390	515.2		02/20/12 18:28	91-20-3	
2-Propanol	ND	ug/m3	1290	515.2		02/20/12 18:28	67-63-0	
Propylene	ND	ug/m3	180	515.2		02/20/12 18:28	115-07-1	
Styrene	ND	ug/m3	448	515.2		02/20/12 18:28	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/m3	360	515.2		02/20/12 18:28	79-34-5	
Tetrachloroethene	**4440**	ug/m3	355	515.2		02/20/12 18:28	127-18-4	

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ANALYTICAL RESULTS

Project: CRC City of Rochester
Pace Project No.: 10183340

Sample: DPE-EXHAUST-1289 **Lab ID: 10183340001** Collected: 02/16/12 11:30 Received: 02/17/12 13:11 Matrix: Air

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15							
Tetrahydrofuran	ND	ug/m3	309	515.2		02/20/12 18:28	109-99-9	
Toluene	ND	ug/m3	397	515.2		02/20/12 18:28	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/m3	510	515.2		02/20/12 18:28	120-82-1	
1,1,1-Trichloroethane	ND	ug/m3	567	515.2		02/20/12 18:28	71-55-6	
1,1,2-Trichloroethane	ND	ug/m3	283	515.2		02/20/12 18:28	79-00-5	
Trichloroethene	ND	ug/m3	283	515.2		02/20/12 18:28	79-01-6	
Trichlorofluoromethane	ND	ug/m3	567	515.2		02/20/12 18:28	75-69-4	
1,1,2-Trichlorotrifluoroethane	**60400**	ug/m3	824	515.2		02/20/12 18:28	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/m3	515	515.2		02/20/12 18:28	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/m3	515	515.2		02/20/12 18:28	108-67-8	
Vinyl acetate	ND	ug/m3	366	515.2		02/20/12 18:28	108-05-4	
Vinyl chloride	ND	ug/m3	134	515.2		02/20/12 18:28	75-01-4	
m&p-Xylene	ND	ug/m3	907	515.2		02/20/12 18:28	179601-23-1	
o-Xylene	ND	ug/m3	453	515.2		02/20/12 18:28	95-47-6	

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QUALITY CONTROL DATA

Project: CRC City of Rochester
Pace Project No.: 10183340

QC Batch: AIR/14292
QC Batch Method: TO-15
Analysis Method: TO-15
Analysis Description: TO15 MSV AIR Low Level
Associated Lab Samples: 10183340001

METHOD BLANK: 1142618
Matrix: Air
Associated Lab Samples: 10183340001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/m3	ND	1.1	02/20/12 10:44	
1,1,2,2-Tetrachloroethane	ug/m3	ND	0.70	02/20/12 10:44	
1,1,2-Trichloroethane	ug/m3	ND	0.55	02/20/12 10:44	
1,1,2-Trichlorotrifluoroethane	ug/m3	ND	1.6	02/20/12 10:44	
1,1-Dichloroethane	ug/m3	ND	0.82	02/20/12 10:44	
1,1-Dichloroethene	ug/m3	ND	0.81	02/20/12 10:44	
1,2,4-Trichlorobenzene	ug/m3	ND	0.99	02/20/12 10:44	
1,2,4-Trimethylbenzene	ug/m3	ND	1.0	02/20/12 10:44	
1,2-Dibromoethane (EDB)	ug/m3	ND	1.6	02/20/12 10:44	
1,2-Dichlorobenzene	ug/m3	ND	1.2	02/20/12 10:44	
1,2-Dichloroethane	ug/m3	ND	0.41	02/20/12 10:44	
1,2-Dichloropropane	ug/m3	ND	0.94	02/20/12 10:44	
1,3,5-Trimethylbenzene	ug/m3	ND	1.0	02/20/12 10:44	
1,3-Butadiene	ug/m3	ND	0.45	02/20/12 10:44	
1,3-Dichlorobenzene	ug/m3	ND	1.2	02/20/12 10:44	
1,4-Dichlorobenzene	ug/m3	ND	1.2	02/20/12 10:44	
2-Butanone (MEK)	ug/m3	ND	0.60	02/20/12 10:44	
2-Hexanone	ug/m3	ND	0.83	02/20/12 10:44	
2-Propanol	ug/m3	ND	2.5	02/20/12 10:44	
4-Ethyltoluene	ug/m3	ND	2.5	02/20/12 10:44	
4-Methyl-2-pentanone (MIBK)	ug/m3	ND	0.83	02/20/12 10:44	
Acetone	ug/m3	ND	0.48	02/20/12 10:44	
Benzene	ug/m3	ND	0.32	02/20/12 10:44	
Benzyl chloride	ug/m3	ND	1.0	02/20/12 10:44	
Bromodichloromethane	ug/m3	ND	1.4	02/20/12 10:44	
Bromoform	ug/m3	ND	2.1	02/20/12 10:44	
Bromomethane	ug/m3	ND	0.79	02/20/12 10:44	
Carbon disulfide	ug/m3	ND	0.63	02/20/12 10:44	
Carbon tetrachloride	ug/m3	ND	0.64	02/20/12 10:44	
Chlorobenzene	ug/m3	ND	0.94	02/20/12 10:44	
Chloroethane	ug/m3	ND	0.54	02/20/12 10:44	
Chloroform	ug/m3	ND	0.99	02/20/12 10:44	
Chloromethane	ug/m3	ND	0.42	02/20/12 10:44	
cis-1,2-Dichloroethene	ug/m3	ND	0.81	02/20/12 10:44	
cis-1,3-Dichloropropene	ug/m3	ND	0.92	02/20/12 10:44	
Cyclohexane	ug/m3	ND	0.68	02/20/12 10:44	
Dibromochloromethane	ug/m3	ND	1.7	02/20/12 10:44	
Dichlorodifluoromethane	ug/m3	ND	1.0	02/20/12 10:44	
Dichlorotetrafluoroethane	ug/m3	ND	1.4	02/20/12 10:44	
Ethanol	ug/m3	ND	1.9	02/20/12 10:44	
Ethyl acetate	ug/m3	ND	0.73	02/20/12 10:44	
Ethylbenzene	ug/m3	ND	0.88	02/20/12 10:44	
Hexachloro-1,3-butadiene	ug/m3	ND	2.2	02/20/12 10:44	

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QUALITY CONTROL DATA

Project: CRC City of Rochester
Pace Project No.: 10183340

METHOD BLANK: 1142618 Matrix: Air

Associated Lab Samples: 10183340001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
m&p-Xylene	ug/m3	ND	1.8	02/20/12 10:44	
Methyl-tert-butyl ether	ug/m3	ND	0.73	02/20/12 10:44	
Methylene Chloride	ug/m3	ND	0.71	02/20/12 10:44	
n-Heptane	ug/m3	ND	0.83	02/20/12 10:44	
n-Hexane	ug/m3	ND	0.72	02/20/12 10:44	
Naphthalene	ug/m3	ND	2.7	02/20/12 10:44	
o-Xylene	ug/m3	ND	0.88	02/20/12 10:44	
Propylene	ug/m3	ND	0.35	02/20/12 10:44	
Styrene	ug/m3	ND	0.87	02/20/12 10:44	
Tetrachloroethene	ug/m3	ND	0.69	02/20/12 10:44	
Tetrahydrofuran	ug/m3	ND	0.60	02/20/12 10:44	
Toluene	ug/m3	ND	0.77	02/20/12 10:44	
trans-1,2-Dichloroethene	ug/m3	ND	0.81	02/20/12 10:44	
trans-1,3-Dichloropropene	ug/m3	ND	0.92	02/20/12 10:44	
Trichloroethene	ug/m3	ND	0.55	02/20/12 10:44	
Trichlorofluoromethane	ug/m3	ND	1.1	02/20/12 10:44	
Vinyl acetate	ug/m3	ND	0.71	02/20/12 10:44	
Vinyl chloride	ug/m3	ND	0.26	02/20/12 10:44	

LABORATORY CONTROL SAMPLE: 1142619

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/m3	55.5	48.0	87	72-129	
1,1,2,2-Tetrachloroethane	ug/m3	69.8	63.0	90	73-131	
1,1,2-Trichloroethane	ug/m3	55.5	47.3	85	71-128	
1,1,2-Trichlorotrifluoroethane	ug/m3	77.9	65.7	84	65-132	
1,1-Dichloroethane	ug/m3	41.2	34.5	84	67-132	
1,1-Dichloroethene	ug/m3	40.3	37.3	92	68-134	
1,2,4-Trichlorobenzene	ug/m3	75.5	180	239	48-150	CH,L3
1,2,4-Trimethylbenzene	ug/m3	50	42.7	85	72-127	
1,2-Dibromoethane (EDB)	ug/m3	78.1	79.4	102	75-130	
1,2-Dichlorobenzene	ug/m3	61.2	66.6	109	71-132	
1,2-Dichloroethane	ug/m3	41.2	36.4	88	70-131	
1,2-Dichloropropane	ug/m3	47	44.8	95	73-130	
1,3,5-Trimethylbenzene	ug/m3	50	42.5	85	70-133	
1,3-Butadiene	ug/m3	22.5	22.9	102	69-132	
1,3-Dichlorobenzene	ug/m3	61.2	51.4	84	71-128	
1,4-Dichlorobenzene	ug/m3	61.2	55.6	91	72-131	
2-Butanone (MEK)	ug/m3	30	45.2	151	69-131	CH,L1
2-Hexanone	ug/m3	41.7	37.7	90	71-134	
2-Propanol	ug/m3	25	23.5	94	72-132	
4-Ethyltoluene	ug/m3	50	44.3	89	71-129	
4-Methyl-2-pentanone (MIBK)	ug/m3	41.7	39.3	94	69-135	
Acetone	ug/m3	24.2	22.1	91	61-139	
Benzene	ug/m3	32.5	33.0	101	69-134	

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QUALITY CONTROL DATA

Project: CRC City of Rochester
Pace Project No.: 10183340

LABORATORY CONTROL SAMPLE: 1142619

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Benzyl chloride	ug/m3	52.5	48.7	93	70-129	
Bromodichloromethane	ug/m3	68.2	60.1	88	71-130	
Bromoform	ug/m3	105	104	99	70-130	
Bromomethane	ug/m3	39.5	33.0	84	69-125	
Carbon disulfide	ug/m3	31.7	27.8	88	66-131	
Carbon tetrachloride	ug/m3	64	55.8	87	68-128	
Chlorobenzene	ug/m3	46.8	43.2	92	75-128	
Chloroethane	ug/m3	26.8	22.4	84	66-131	
Chloroform	ug/m3	49.7	41.7	84	68-132	
Chloromethane	ug/m3	21	16.7	80	60-139	
cis-1,2-Dichloroethene	ug/m3	40.3	41.9	104	73-130	
cis-1,3-Dichloropropene	ug/m3	46.2	44.7	97	74-134	
Cyclohexane	ug/m3	35	36.2	103	67-136	
Dibromochloromethane	ug/m3	86.6	82.8	96	69-131	
Dichlorodifluoromethane	ug/m3	50.3	38.5	77	67-131	
Dichlorotetrafluoroethane	ug/m3	71.1	60.3	85	66-130	
Ethanol	ug/m3	19.2	16.0	84	69-131	
Ethyl acetate	ug/m3	36.6	36.6	100	71-131	
Ethylbenzene	ug/m3	44.2	38.7	88	69-139	
Hexachloro-1,3-butadiene	ug/m3	108	281	259	41-150	CH,L3
m&p-Xylene	ug/m3	88.3	75.3	85	66-137	
Methyl-tert-butyl ether	ug/m3	36.7	40.2	110	70-132	
Methylene Chloride	ug/m3	35.3	28.7	81	73-134	
n-Heptane	ug/m3	41.7	40.2	96	70-134	
n-Hexane	ug/m3	35.8	42.0	117	65-133	
Naphthalene	ug/m3	53.3	143	269	57-150	CH,L3
o-Xylene	ug/m3	44.2	37.6	85	69-138	
Propylene	ug/m3	17.5	18.4	105	70-134	
Styrene	ug/m3	43.3	37.8	87	72-132	
Tetrachloroethene	ug/m3	69	66.4	96	70-130	
Tetrahydrofuran	ug/m3	30	29.1	97	74-128	
Toluene	ug/m3	38.3	39.6	103	71-132	
trans-1,2-Dichloroethene	ug/m3	40.3	39.0	97	72-128	
trans-1,3-Dichloropropene	ug/m3	46.2	44.0	95	73-130	
Trichloroethene	ug/m3	54.6	53.4	98	72-131	
Trichlorofluoromethane	ug/m3	57.1	46.4	81	66-129	
Vinyl acetate	ug/m3	35.8	36.0	100	71-131	
Vinyl chloride	ug/m3	26	24.7	95	70-131	

SAMPLE DUPLICATE: 1142954

Parameter	Units	10183340001 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	60400	62200	3	25	
1,1-Dichloroethane	ug/m3	ND	ND		25	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: CRC City of Rochester
Pace Project No.: 10183340

SAMPLE DUPLICATE: 1142954

Parameter	Units	10183340001 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	617J		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	1390	1890	31	25	R1
n-Heptane	ug/m3	ND	ND		25	
n-Hexane	ug/m3	585	825	34	25	R1
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	4440	4250	4	25	

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QUALITY CONTROL DATA

Project: CRC City of Rochester
Pace Project No.: 10183340

SAMPLE DUPLICATE: 1142954

Parameter	Units	10183340001 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	

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QUALIFIERS

Project: CRC City of Rochester
Pace Project No.: 10183340

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.

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.

SAMPLE QUALIFIERS

Sample: 10183340001

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

ANALYTE QUALIFIERS

CH	The continuing calibration for this compound is outside of Pace Analytical acceptance limits. The results may be biased high.
L1	Analyte recovery in the laboratory control sample (LCS) was above QC limits. Results may be biased high.
L3	Analyte recovery in the laboratory control sample (LCS) exceeded QC limits. Analyte presence below reporting limits in associated samples. Results unaffected by high bias.
R1	RPD value was outside control limits.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: CRC City of Rochester
Pace Project No.: 10183340

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10183340001	**DPE-EXHAUST-1289**	TO-15	AIR/14292		

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Data File: \\192.168.10.12\chem\10air0.i\022012.b\05123.D
Report Date: 21-Feb-2012 09:53

Pace Analytical Services, Inc.

TENTATIVELY IDENTIFIED COMPOUNDS

Client Name:
Lab Smp Id: 10183340001
Operator : DR1
Sample Location:
Sample Matrix: AIR
Analysis Type: VOA
Inj Date: 20-FEB-2012 18:28

Client SDG: 022012.b

Sample Date:
Sample Point:
Date Received:
Level: LOW

Number TICs found: 3

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

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.		Unknown	3.490	694	J
2.		Unknown	16.063	771	J
3.		Unknown	16.581	845	J

Data File: \\192.168.10.12\chem\10air0.i\022012.b\05123.D
Report Date: 21-Feb-2012 09:53

Pace Analytical Services, Inc.

TO15 Analysis (UNIX)

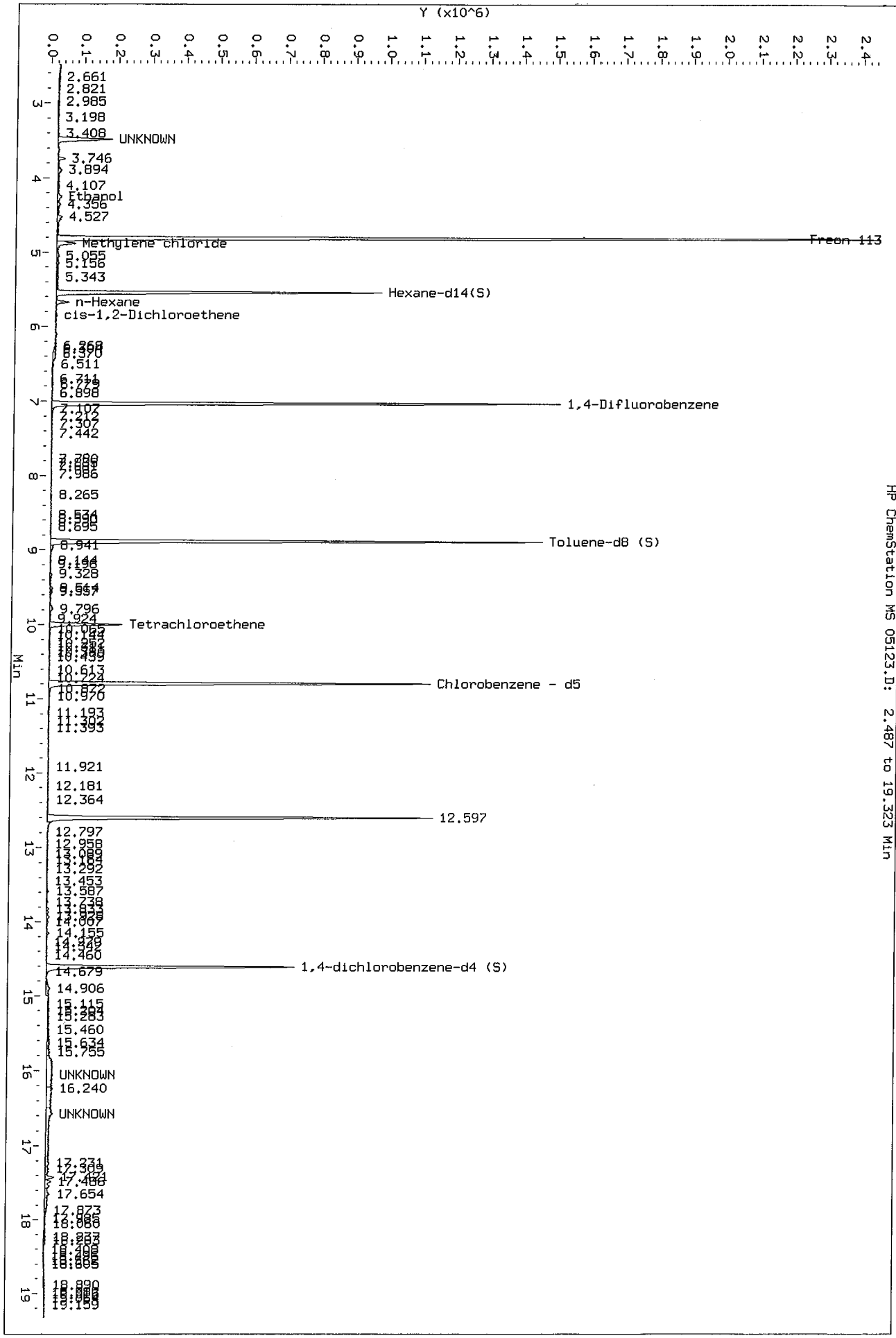
Data file : \\192.168.10.12\chem\10air0.i\022012.b\05123.D
Lab Smp Id: 10183340001
Inj Date : 20-FEB-2012 18:28
Operator : DR1 Inst ID: 10air0.i
Smp Info :
Misc Info : 14292
Comment : Volatile Organic COMPOUNDS in Air
Method : \\192.168.10.12\chem\10air0.i\022012.b\TO15_044-12.m
Meth Date : 20-Feb-2012 08:11 drandall Quant Type: ISTD
Cal Date : 13-FEB-2012 18:42 Cal File: 04416.D
Als bottle: 23
Dil Factor: 515.20000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14
Processing Host: 10AIRPC4

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	515.200	Dilution Factor
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

ISTD	RT	AREA	AMOUNT
* 37 1,4-Difluorobenzene	7.035	2579426	10.000
* 54 Chlorobenzene - d5	10.793	2132039	10.000

		CONCENTRATIONS			QUANT		
RT	AREA	ON-COL(ppbv)	FINAL(ppbv)	QUAL	LIBRARY	LIB ENTRY	CPND #
Unknown				CAS #:			
3.490	347441	1.34696868	694	0		0	37
Unknown				CAS #:			
16.063	319060	1.49649939	771	0		0	54
Unknown				CAS #:			
16.581	349854	1.64093586	845	0		0	54



Data File: \\192.168.10.12\chem\10air0.i\022012.b\05123.D
Injection Date: 20-FEB-2012 18:28
Instrument: 10air0.i
Client Sample ID:

HP ChemStation MS 05123.D: 2.487 to 19.323 Min

Pace Analytical™
www.pacelabs.com

CHAIN-OF-CUSTODY / Analytical Request Document

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

10163340

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
Requested Due Date/TAT: Normal

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 ☐ OTHER_____

SITE LOCATION: ☐ GA ☐ IL ☐ IN ☐ MI ☐ IC ☐ OH ☐ SC ☐ WI ☐ OTHER____

Section D Required Client Information

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

Valid Matrix Codes

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

ITEM #	SAMPLE ID	MATRIX CODE	SAMPLE TYPE G=GRAB C=COMP	COLLECTED COMPOSITE START DATE	COLLECTED COMPOSITE START TIME	COLLECTED COMPOSITE END/GRAB DATE	COLLECTED COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	#OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Filtered (Y/N)	Requested Analysis: TO-15	Pace Project Number / Lab I.D.
1	DPE-EXHAUST-1289	A	C	2/16/12	5:30	2/16/12	11:30												X	057
2																				
3																				
4																				
5																				
6																				
7																				
8																				
5																				
6																				
7																				
8																				

Additional Comments:

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
				2-17-12	1311

SAMPLE CONDITIONS

	Temp in °C	Received on Ice	Custody Sealed Cooler	Samples Intact
	4mp	(Y) N	(Y) N	(Y) N
		Y/N	Y/N	Y/N
		Y/N	Y/N	Y/N
		Y/N	Y/N	Y/N

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Eric Gabrielson

SIGNATURE of SAMPLER: [signature]

DATE Signed (MM / DD / YY): 2/17/12

Pace Analytical

AIR Sample Condition Upon Receipt

Client Name: LANDMARK ENV Project # 10183340

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☐ Client ☑ Commercial ☐ Pace Other_____

Custody Seal on Cooler/Box Present: ☐ yes ☒ no Seals intact: ☐ yes ☐ no

[redacted]

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

Tracking #:_____

Comments:

Date and Initials of person examining contents: 2-17-12 (NS)

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

Samples Received: 1 CAN 1 FC

Canisters		Flow Controllers		Stand Alone G		Tedlar Bags	
Sample Number	Can ID	Sample Number	Can ID	Sample Number	Can ID	Sample Number	Can ID
DPE-ER	1289		0354				

Client Notification/ Resolution: Field Data Required? Y / N

Person Contacted:_____ Date/Time:_____

Comments/ Resolution:_____

Project Manager Review: CMT **Date:** 3/20/12

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

A106 Rev.01 (22May2009)

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

March 26, 2012

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

RE: Project: CRC City of Rochester
Pace Project No.: 10186029

Dear Mr. Skramstad:
Enclosed are the analytical results for sample(s) received by the laboratory on March 19, 2012. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

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

Sincerely,

Diane J. Anderson for
Carolynne Trout
carolynne.trout@pacelabs.com
Project Manager

Enclosures

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CERTIFICATIONS

Project: CRC City of Rochester
Pace Project No.: 10186029

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
EPA Region 8 Certification #: Pace
Florida/NELAP Certification #: E87605
Georgia Certification #: 959
Idaho Certification #: MN00064
Illinois Certification #: 200011
Iowa Certification #: 368
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 Mexico Certification #: Pace
New York Certification #: 11647
North Carolina Certification #: 530
North Dakota Certification #: R-036
North Dakota Certification #: R-036A
Ohio VAP Certification #: CL101
Oklahoma Certification #: D9921
Oklahoma Certification #: 9507
Oregon Certification #: MN200001
Pennsylvania Certification #: 68-00563
Puerto Rico Certification
Tennessee Certification #: 02818
Texas Certification #: T104704192
Washington Certification #: C754
Wisconsin Certification #: 999407970

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(612)607-1700

SAMPLE SUMMARY

Project: CRC City of Rochester
Pace Project No.: 10186029

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10186029001	**DPE-EXHAUST-1637**	Air	03/16/12 17:30	03/19/12 11:15

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SAMPLE ANALYTE COUNT

Project: CRC City of Rochester
Pace Project No.: 10186029

Lab ID	Sample ID	Method	Analysts	Analytes Reported
10186029001	**DPE-EXHAUST-1637**	TO-15	DR1	61

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ANALYTICAL RESULTS

Project: CRC City of Rochester
Pace Project No.: 10186029

Sample: DPE-EXHAUST-1637 **Lab ID: 10186029001** Collected: 03/16/12 17:30 Received: 03/19/12 11:15 Matrix: Air

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15							
Acetone	ND	ug/m3	295	614.4		03/24/12 03:49	67-64-1	
Benzene	ND	ug/m3	200	614.4		03/24/12 03:49	71-43-2	
Benzyl chloride	ND	ug/m3	645	614.4		03/24/12 03:49	100-44-7	
Bromodichloromethane	ND	ug/m3	836	614.4		03/24/12 03:49	75-27-4	
Bromoform	ND	ug/m3	1290	614.4		03/24/12 03:49	75-25-2	
Bromomethane	ND	ug/m3	485	614.4		03/24/12 03:49	74-83-9	
1,3-Butadiene	ND	ug/m3	276	614.4		03/24/12 03:49	106-99-0	
2-Butanone (MEK)	ND	ug/m3	369	614.4		03/24/12 03:49	78-93-3	
Carbon disulfide	ND	ug/m3	387	614.4		03/24/12 03:49	75-15-0	
Carbon tetrachloride	ND	ug/m3	393	614.4		03/24/12 03:49	56-23-5	
Chlorobenzene	ND	ug/m3	578	614.4		03/24/12 03:49	108-90-7	
Chloroethane	ND	ug/m3	332	614.4		03/24/12 03:49	75-00-3	
Chloroform	ND	ug/m3	608	614.4		03/24/12 03:49	67-66-3	
Chloromethane	ND	ug/m3	258	614.4		03/24/12 03:49	74-87-3	
Cyclohexane	ND	ug/m3	418	614.4		03/24/12 03:49	110-82-7	
Dibromochloromethane	ND	ug/m3	1060	614.4		03/24/12 03:49	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/m3	958	614.4		03/24/12 03:49	106-93-4	
1,2-Dichlorobenzene	ND	ug/m3	750	614.4		03/24/12 03:49	95-50-1	
1,3-Dichlorobenzene	ND	ug/m3	750	614.4		03/24/12 03:49	541-73-1	
1,4-Dichlorobenzene	ND	ug/m3	750	614.4		03/24/12 03:49	106-46-7	
Dichlorodifluoromethane	ND	ug/m3	621	614.4		03/24/12 03:49	75-71-8	
1,1-Dichloroethane	ND	ug/m3	504	614.4		03/24/12 03:49	75-34-3	
1,2-Dichloroethane	ND	ug/m3	252	614.4		03/24/12 03:49	107-06-2	
1,1-Dichloroethene	ND	ug/m3	498	614.4		03/24/12 03:49	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	498	614.4		03/24/12 03:49	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	498	614.4		03/24/12 03:49	156-60-5	
1,2-Dichloropropane	ND	ug/m3	578	614.4		03/24/12 03:49	78-87-5	
cis-1,3-Dichloropropene	ND	ug/m3	565	614.4		03/24/12 03:49	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/m3	565	614.4		03/24/12 03:49	10061-02-6	
Dichlorotetrafluoroethane	ND	ug/m3	872	614.4		03/24/12 03:49	76-14-2	
Ethanol	**894**	ug/m3	233	614.4		03/24/12 03:49	64-17-5	
Ethyl acetate	ND	ug/m3	449	614.4		03/24/12 03:49	141-78-6	
Ethylbenzene	ND	ug/m3	541	614.4		03/24/12 03:49	100-41-4	
4-Ethyltoluene	ND	ug/m3	614	614.4		03/24/12 03:49	622-96-8	
n-Heptane	ND	ug/m3	510	614.4		03/24/12 03:49	142-82-5	
Hexachloro-1,3-butadiene	ND	ug/m3	1350	614.4		03/24/12 03:49	87-68-3	
n-Hexane	ND	ug/m3	442	614.4		03/24/12 03:49	110-54-3	
2-Hexanone	ND	ug/m3	510	614.4		03/24/12 03:49	591-78-6	
Methylene Chloride	ND	ug/m3	436	614.4		03/24/12 03:49	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/m3	510	614.4		03/24/12 03:49	108-10-1	
Methyl-tert-butyl ether	ND	ug/m3	449	614.4		03/24/12 03:49	1634-04-4	
Naphthalene	ND	ug/m3	657	614.4		03/24/12 03:49	91-20-3	
2-Propanol	ND	ug/m3	1540	614.4		03/24/12 03:49	67-63-0	
Propylene	ND	ug/m3	215	614.4		03/24/12 03:49	115-07-1	
Styrene	ND	ug/m3	535	614.4		03/24/12 03:49	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/m3	429	614.4		03/24/12 03:49	79-34-5	
Tetrachloroethene	ND	ug/m3	423	614.4		03/24/12 03:49	127-18-4	

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Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: CRC City of Rochester
Pace Project No.: 10186029

Sample: DPE-EXHAUST-1637 **Lab ID: 10186029001** Collected: 03/16/12 17:30 Received: 03/19/12 11:15 Matrix: Air

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15							
Tetrahydrofuran	ND	ug/m3	369	614.4		03/24/12 03:49	109-99-9	
Toluene	ND	ug/m3	473	614.4		03/24/12 03:49	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/m3	608	614.4		03/24/12 03:49	120-82-1	
1,1,1-Trichloroethane	ND	ug/m3	682	614.4		03/24/12 03:49	71-55-6	
1,1,2-Trichloroethane	ND	ug/m3	338	614.4		03/24/12 03:49	79-00-5	
Trichloroethene	ND	ug/m3	338	614.4		03/24/12 03:49	79-01-6	
Trichlorofluoromethane	ND	ug/m3	700	614.4		03/24/12 03:49	75-69-4	
1,1,2-Trichlorotrifluoroethane	**58500**	ug/m3	983	614.4		03/24/12 03:49	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/m3	614	614.4		03/24/12 03:49	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/m3	614	614.4		03/24/12 03:49	108-67-8	
Vinyl acetate	ND	ug/m3	436	614.4		03/24/12 03:49	108-05-4	
Vinyl chloride	ND	ug/m3	160	614.4		03/24/12 03:49	75-01-4	
m&p-Xylene	ND	ug/m3	1080	614.4		03/24/12 03:49	179601-23-1	
o-Xylene	ND	ug/m3	541	614.4		03/24/12 03:49	95-47-6	

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QUALITY CONTROL DATA

Project: CRC City of Rochester
Pace Project No.: 10186029

QC Batch: AIR/14522
QC Batch Method: TO-15
Analysis Method: TO-15
Analysis Description: TO15 MSV AIR Low Level
Associated Lab Samples: 10186029001

METHOD BLANK: 1159980
Matrix: Air
Associated Lab Samples: 10186029001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/m3	ND	1.1	03/23/12 15:55	
1,1,2,2-Tetrachloroethane	ug/m3	ND	0.70	03/23/12 15:55	
1,1,2-Trichloroethane	ug/m3	ND	0.55	03/23/12 15:55	
1,1,2-Trichlorotrifluoroethane	ug/m3	ND	1.6	03/23/12 15:55	
1,1-Dichloroethane	ug/m3	ND	0.82	03/23/12 15:55	
1,1-Dichloroethene	ug/m3	ND	0.81	03/23/12 15:55	
1,2,4-Trichlorobenzene	ug/m3	ND	0.99	03/23/12 15:55	
1,2,4-Trimethylbenzene	ug/m3	ND	1.0	03/23/12 15:55	
1,2-Dibromoethane (EDB)	ug/m3	ND	1.6	03/23/12 15:55	
1,2-Dichlorobenzene	ug/m3	ND	1.2	03/23/12 15:55	
1,2-Dichloroethane	ug/m3	ND	0.41	03/23/12 15:55	
1,2-Dichloropropane	ug/m3	ND	0.94	03/23/12 15:55	
1,3,5-Trimethylbenzene	ug/m3	ND	1.0	03/23/12 15:55	
1,3-Butadiene	ug/m3	ND	0.45	03/23/12 15:55	
1,3-Dichlorobenzene	ug/m3	ND	1.2	03/23/12 15:55	
1,4-Dichlorobenzene	ug/m3	ND	1.2	03/23/12 15:55	
2-Butanone (MEK)	ug/m3	ND	0.60	03/23/12 15:55	
2-Hexanone	ug/m3	ND	0.83	03/23/12 15:55	
2-Propanol	ug/m3	ND	2.5	03/23/12 15:55	
4-Ethyltoluene	ug/m3	ND	1.0	03/23/12 15:55	
4-Methyl-2-pentanone (MIBK)	ug/m3	ND	0.83	03/23/12 15:55	
Acetone	ug/m3	ND	0.48	03/23/12 15:55	
Benzene	ug/m3	ND	0.32	03/23/12 15:55	
Benzyl chloride	ug/m3	ND	1.0	03/23/12 15:55	
Bromodichloromethane	ug/m3	ND	1.4	03/23/12 15:55	
Bromoform	ug/m3	ND	2.1	03/23/12 15:55	
Bromomethane	ug/m3	ND	0.79	03/23/12 15:55	
Carbon disulfide	ug/m3	ND	0.63	03/23/12 15:55	
Carbon tetrachloride	ug/m3	ND	0.64	03/23/12 15:55	
Chlorobenzene	ug/m3	ND	0.94	03/23/12 15:55	
Chloroethane	ug/m3	ND	0.54	03/23/12 15:55	
Chloroform	ug/m3	ND	0.99	03/23/12 15:55	
Chloromethane	ug/m3	ND	0.42	03/23/12 15:55	
cis-1,2-Dichloroethene	ug/m3	ND	0.81	03/23/12 15:55	
cis-1,3-Dichloropropene	ug/m3	ND	0.92	03/23/12 15:55	
Cyclohexane	ug/m3	ND	0.68	03/23/12 15:55	
Dibromochloromethane	ug/m3	ND	1.7	03/23/12 15:55	
Dichlorodifluoromethane	ug/m3	ND	1.0	03/23/12 15:55	
Dichlorotetrafluoroethane	ug/m3	ND	1.4	03/23/12 15:55	
Ethanol	ug/m3	ND	0.38	03/23/12 15:55	
Ethyl acetate	ug/m3	ND	0.73	03/23/12 15:55	
Ethylbenzene	ug/m3	ND	0.88	03/23/12 15:55	
Hexachloro-1,3-butadiene	ug/m3	ND	2.2	03/23/12 15:55	

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QUALITY CONTROL DATA

Project: CRC City of Rochester
Pace Project No.: 10186029

METHOD BLANK: 1159980 Matrix: Air

Associated Lab Samples: 10186029001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
m&p-Xylene	ug/m3	ND	1.8	03/23/12 15:55	
Methyl-tert-butyl ether	ug/m3	ND	0.73	03/23/12 15:55	
Methylene Chloride	ug/m3	ND	0.71	03/23/12 15:55	
n-Heptane	ug/m3	ND	0.83	03/23/12 15:55	
n-Hexane	ug/m3	ND	0.72	03/23/12 15:55	
Naphthalene	ug/m3	ND	1.1	03/23/12 15:55	
o-Xylene	ug/m3	ND	0.88	03/23/12 15:55	
Propylene	ug/m3	ND	0.35	03/23/12 15:55	
Styrene	ug/m3	ND	0.87	03/23/12 15:55	
Tetrachloroethene	ug/m3	ND	0.69	03/23/12 15:55	
Tetrahydrofuran	ug/m3	ND	0.60	03/23/12 15:55	
Toluene	ug/m3	ND	0.77	03/23/12 15:55	
trans-1,2-Dichloroethene	ug/m3	ND	0.81	03/23/12 15:55	
trans-1,3-Dichloropropene	ug/m3	ND	0.92	03/23/12 15:55	
Trichloroethene	ug/m3	ND	0.55	03/23/12 15:55	
Trichlorofluoromethane	ug/m3	ND	1.1	03/23/12 15:55	
Vinyl acetate	ug/m3	ND	0.71	03/23/12 15:55	
Vinyl chloride	ug/m3	ND	0.26	03/23/12 15:55	

LABORATORY CONTROL SAMPLE: 1159981

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/m3	55.5	46.8	84	72-129	
1,1,2,2-Tetrachloroethane	ug/m3	69.8	56.8	81	73-131	
1,1,2-Trichloroethane	ug/m3	55.5	45.2	81	71-128	
1,1,2-Trichlorotrifluoroethane	ug/m3	77.9	65.6	84	65-132	
1,1-Dichloroethane	ug/m3	41.2	35.2	86	67-132	
1,1-Dichloroethene	ug/m3	40.3	33.9	84	68-134	
1,2,4-Trichlorobenzene	ug/m3	75.5	134	178	48-150	CH,L3
1,2,4-Trimethylbenzene	ug/m3	50	41.3	83	72-127	
1,2-Dibromoethane (EDB)	ug/m3	78.1	63.9	82	75-130	
1,2-Dichlorobenzene	ug/m3	61.2	67.4	110	71-132	
1,2-Dichloroethane	ug/m3	41.2	34.7	84	70-131	
1,2-Dichloropropane	ug/m3	47	42.2	90	73-130	
1,3,5-Trimethylbenzene	ug/m3	50	41.3	83	70-133	
1,3-Butadiene	ug/m3	22.5	19.5	87	69-132	
1,3-Dichlorobenzene	ug/m3	61.2	49.8	81	71-128	
1,4-Dichlorobenzene	ug/m3	61.2	49.9	82	72-131	
2-Butanone (MEK)	ug/m3	30	27.1	90	69-131	
2-Hexanone	ug/m3	41.7	37.1	89	71-134	
2-Propanol	ug/m3	25	24.9	100	72-132	
4-Ethyltoluene	ug/m3	50	40.4	81	71-129	
4-Methyl-2-pentanone (MIBK)	ug/m3	41.7	37.3	90	69-135	
Acetone	ug/m3	24.2	27.6	114	61-139	
Benzene	ug/m3	32.5	26.6	82	69-134	

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QUALITY CONTROL DATA

Project: CRC City of Rochester
Pace Project No.: 10186029

LABORATORY CONTROL SAMPLE: 1159981

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Benzyl chloride	ug/m3	52.5	42.9	82	70-129	
Bromodichloromethane	ug/m3	68.2	57.4	84	71-130	
Bromoform	ug/m3	105	77.2	73	70-130	
Bromomethane	ug/m3	39.5	31.7	80	69-125	
Carbon disulfide	ug/m3	31.7	29.8	94	66-131	
Carbon tetrachloride	ug/m3	64	54.2	85	68-128	
Chlorobenzene	ug/m3	46.8	37.8	81	75-128	
Chloroethane	ug/m3	26.8	21.2	79	66-131	
Chloroform	ug/m3	49.7	41.0	83	68-132	
Chloromethane	ug/m3	21	17.2	82	60-139	
cis-1,2-Dichloroethene	ug/m3	40.3	32.7	81	73-130	
cis-1,3-Dichloropropene	ug/m3	46.2	37.0	80	74-134	
Cyclohexane	ug/m3	35	28.3	81	67-136	
Dibromochloromethane	ug/m3	86.6	71.9	83	69-131	
Dichlorodifluoromethane	ug/m3	50.3	42.0	84	67-131	
Dichlorotetrafluoroethane	ug/m3	71.1	58.1	82	66-130	
Ethanol	ug/m3	19.2	16.1	84	69-131	
Ethyl acetate	ug/m3	36.6	27.1	74	71-131	
Ethylbenzene	ug/m3	44.2	36.5	83	69-139	
Hexachloro-1,3-butadiene	ug/m3	108	229	211	41-150	CH,L3
m&p-Xylene	ug/m3	88.3	74.7	85	66-137	
Methyl-tert-butyl ether	ug/m3	36.7	34.8	95	70-132	
Methylene Chloride	ug/m3	35.3	39.2	111	73-134	
n-Heptane	ug/m3	41.7	32.8	79	70-134	
n-Hexane	ug/m3	35.8	41.1	115	65-133	
Naphthalene	ug/m3	53.3	108	203	57-150	CH,L3
o-Xylene	ug/m3	44.2	35.3	80	69-138	
Propylene	ug/m3	17.5	14.1	81	70-134	
Styrene	ug/m3	43.3	36.0	83	72-132	
Tetrachloroethene	ug/m3	69	56.2	81	70-130	
Tetrahydrofuran	ug/m3	30	24.5	82	74-128	
Toluene	ug/m3	38.3	31.6	83	71-132	
trans-1,2-Dichloroethene	ug/m3	40.3	33.6	83	72-128	
trans-1,3-Dichloropropene	ug/m3	46.2	37.8	82	73-130	
Trichloroethene	ug/m3	54.6	45.4	83	72-131	
Trichlorofluoromethane	ug/m3	57.1	49.5	87	66-129	
Vinyl acetate	ug/m3	35.8	26.6	74	71-131	
Vinyl chloride	ug/m3	26	23.5	90	70-131	

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QUALIFIERS

Project: CRC City of Rochester
Pace Project No.: 10186029

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.

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: 10186029001

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

ANALYTE QUALIFIERS

CH	The continuing calibration for this compound is outside of Pace Analytical acceptance limits. The results may be biased high.
L3	Analyte recovery in the laboratory control sample (LCS) exceeded QC limits. Analyte presence below reporting limits in associated samples. Results unaffected by high bias.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: CRC City of Rochester
Pace Project No.: 10186029

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10186029001	**DPE-EXHAUST-1637**	TO-15	AIR/14522		

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CHAIN-OF-CUSTODY / Analytical Request Document

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

10186029

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

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☐ OTHER_____

SITE LOCATION ☐ MA ☐ IL ☐ IN ☐ ☐ ☐ ☐ OH ☐ SC ☐ WI ☐ OTHER_____

Section D **Required** Client Information

SAMPLE ID

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

Samples

Valid Matrix Codes

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

ITEM #	Section D SAMPLE ID	MATRIX CODE	SAMPLE TYPE G=GRAB C=COMP	COLLECTED COMPOSITE START DATE	COLLECTED COMPOSITE START TIME	COLLECTED COMPOSITE END/GRAB DATE	COLLECTED COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	#OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Filtered (Y/N)	Requested Analysis: TO-15	Pace Project Number / Lab I.D.
1	DPE-EXHAUST-1637	A	C	3/16/12	11:06	3/16/12	17:30												X	10186029001
2																				
3																				
4																				
5																				
6																				
7																				
8																				
5																				
6																				
7																				
8																				

Additional Comments:

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
						AMB Y/N Y/N Y/N
						Y/N Y/N Y/N
						Y/N Y/N Y/N
						Y/N Y/N Y/N

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER:

SIGNATURE of SAMPLER: Eric Gabrielson

DATE Signed (MM / DD / YY) 3/18/12

Temp in °C | Received on Ice | Custody Sealed Cooler | Samples Intact

Pace Analytical™	Document Name: Air Sample Condition Upon Recipt	Document Revised: 15Feb2012 Page: 1 of 1
	Document Number: F-MN-A-106-rev.02	Issuing Authority: Pace Minnesota Quality Office

AIR Sample Condition Upon Receipt

Client Name: LANDMARK Project # 10186029

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

Custody Seal on Cooler/Box Present: ☐ yes ☒ no Seals intact: ☐ yes ☐ no

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

Optional: Proj. Due Date: Proj. Name:

Tracking #: _____

Date and Initials of person examining contents: 3-19-12 JK

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

Canisters		Flow Controllers		Stand Alone G	
Sample Number	Can ID	Sample Number	Can ID	Sample Number	Can ID
DPE-EXHAUST	1637		FC0132		

Client Notification/ Resolution: Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: CJW **Date:** 3/20/12

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

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April 25, 2012

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

RE: Project: CRC
Pace Project No.: 10189318

Dear Mr. Skramstad:
Enclosed are the analytical results for sample(s) received by the laboratory on April 19, 2012. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

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

Sincerely,

Shawn Davis for
Carolynne Trout
carolynne.trout@pacelabs.com
Project Manager

Enclosures

Pace Analytical Services, Inc.
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Minneapolis, MN 55414
(612)607-1700

CERTIFICATIONS

Project: CRC
Pace Project No.: 10189318

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
EPA Region 8 Certification #: Pace
Florida/NELAP Certification #: E87605
Georgia Certification #: 959
Idaho Certification #: MN00064
Illinois Certification #: 200011
Iowa Certification #: 368
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 Mexico Certification #: Pace
New York Certification #: 11647
North Carolina Certification #: 530
North Dakota Certification #: R-036
North Dakota Certification #: R-036A
Ohio VAP Certification #: CL101
Oklahoma Certification #: D9921
Oklahoma Certification #: 9507
Oregon Certification #: MN200001
Pennsylvania Certification #: 68-00563
Puerto Rico Certification
Tennessee Certification #: 02818
Texas Certification #: T104704192
Washington Certification #: C754
Wisconsin Certification #: 999407970

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SAMPLE SUMMARY

Project: CRC
Pace Project No.: 10189318

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10189318001	**DPE-EXHAUST-1071**	Air	04/18/12 15:01	04/19/12 11:10

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SAMPLE ANALYTE COUNT

Project: CRC
Pace Project No.: 10189318

Lab ID	Sample ID	Method	Analysts	Analytes Reported
10189318001	**DPE-EXHAUST-1071**	TO-15	CJR	61

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ANALYTICAL RESULTS

Project: CRC
Pace Project No.: 10189318

Sample: DPE-EXHAUST-1071 **Lab ID: 10189318001** Collected: 04/18/12 15:01 Received: 04/19/12 11:10 Matrix: Air

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15							
Acetone	ND	ug/m3	154	321.6		04/23/12 21:43	67-64-1	
Benzene	ND	ug/m3	105	321.6		04/23/12 21:43	71-43-2	
Benzyl chloride	ND	ug/m3	338	321.6		04/23/12 21:43	100-44-7	
Bromodichloromethane	ND	ug/m3	437	321.6		04/23/12 21:43	75-27-4	
Bromoform	ND	ug/m3	675	321.6		04/23/12 21:43	75-25-2	
Bromomethane	ND	ug/m3	254	321.6		04/23/12 21:43	74-83-9	
1,3-Butadiene	ND	ug/m3	145	321.6		04/23/12 21:43	106-99-0	
2-Butanone (MEK)	ND	ug/m3	193	321.6		04/23/12 21:43	78-93-3	
Carbon disulfide	ND	ug/m3	203	321.6		04/23/12 21:43	75-15-0	
Carbon tetrachloride	ND	ug/m3	206	321.6		04/23/12 21:43	56-23-5	
Chlorobenzene	ND	ug/m3	302	321.6		04/23/12 21:43	108-90-7	
Chloroethane	ND	ug/m3	174	321.6		04/23/12 21:43	75-00-3	
Chloroform	ND	ug/m3	318	321.6		04/23/12 21:43	67-66-3	
Chloromethane	ND	ug/m3	135	321.6		04/23/12 21:43	74-87-3	
Cyclohexane	ND	ug/m3	219	321.6		04/23/12 21:43	110-82-7	
Dibromochloromethane	ND	ug/m3	556	321.6		04/23/12 21:43	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/m3	502	321.6		04/23/12 21:43	106-93-4	
1,2-Dichlorobenzene	ND	ug/m3	392	321.6		04/23/12 21:43	95-50-1	
1,3-Dichlorobenzene	ND	ug/m3	392	321.6		04/23/12 21:43	541-73-1	
1,4-Dichlorobenzene	ND	ug/m3	392	321.6		04/23/12 21:43	106-46-7	
Dichlorodifluoromethane	ND	ug/m3	325	321.6		04/23/12 21:43	75-71-8	
1,1-Dichloroethane	ND	ug/m3	264	321.6		04/23/12 21:43	75-34-3	
1,2-Dichloroethane	ND	ug/m3	132	321.6		04/23/12 21:43	107-06-2	
1,1-Dichloroethene	ND	ug/m3	260	321.6		04/23/12 21:43	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	260	321.6		04/23/12 21:43	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	260	321.6		04/23/12 21:43	156-60-5	
1,2-Dichloropropane	ND	ug/m3	302	321.6		04/23/12 21:43	78-87-5	
cis-1,3-Dichloropropene	ND	ug/m3	296	321.6		04/23/12 21:43	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/m3	296	321.6		04/23/12 21:43	10061-02-6	
Dichlorotetrafluoroethane	ND	ug/m3	457	321.6		04/23/12 21:43	76-14-2	
Ethanol	ND	ug/m3	122	321.6		04/23/12 21:43	64-17-5	
Ethyl acetate	ND	ug/m3	235	321.6		04/23/12 21:43	141-78-6	
Ethylbenzene	ND	ug/m3	283	321.6		04/23/12 21:43	100-41-4	
4-Ethyltoluene	ND	ug/m3	322	321.6		04/23/12 21:43	622-96-8	
n-Heptane	ND	ug/m3	267	321.6		04/23/12 21:43	142-82-5	
Hexachloro-1,3-butadiene	ND	ug/m3	708	321.6		04/23/12 21:43	87-68-3	
n-Hexane	ND	ug/m3	232	321.6		04/23/12 21:43	110-54-3	
2-Hexanone	ND	ug/m3	267	321.6		04/23/12 21:43	591-78-6	
Methylene Chloride	ND	ug/m3	228	321.6		04/23/12 21:43	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/m3	267	321.6		04/23/12 21:43	108-10-1	
Methyl-tert-butyl ether	ND	ug/m3	235	321.6		04/23/12 21:43	1634-04-4	
Naphthalene	ND	ug/m3	344	321.6		04/23/12 21:43	91-20-3	
2-Propanol	ND	ug/m3	804	321.6		04/23/12 21:43	67-63-0	
Propylene	ND	ug/m3	113	321.6		04/23/12 21:43	115-07-1	
Styrene	ND	ug/m3	280	321.6		04/23/12 21:43	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/m3	224	321.6		04/23/12 21:43	79-34-5	
Tetrachloroethene	**20600**	ug/m3	222	321.6		04/23/12 21:43	127-18-4	

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ANALYTICAL RESULTS

Project: CRC
Pace Project No.: 10189318

Sample: DPE-EXHAUST-1071 **Lab ID: 10189318001** Collected: 04/18/12 15:01 Received: 04/19/12 11:10 Matrix: Air

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15							
Tetrahydrofuran	ND	ug/m3	193	321.6		04/23/12 21:43	109-99-9	
Toluene	ND	ug/m3	248	321.6		04/23/12 21:43	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/m3	318	321.6		04/23/12 21:43	120-82-1	
1,1,1-Trichloroethane	ND	ug/m3	357	321.6		04/23/12 21:43	71-55-6	
1,1,2-Trichloroethane	ND	ug/m3	177	321.6		04/23/12 21:43	79-00-5	
Trichloroethene	ND	ug/m3	177	321.6		04/23/12 21:43	79-01-6	
Trichlorofluoromethane	ND	ug/m3	367	321.6		04/23/12 21:43	75-69-4	
1,1,2-Trichlorotrifluoroethane	**51200**	ug/m3	515	321.6		04/23/12 21:43	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/m3	321	321.6		04/23/12 21:43	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/m3	321	321.6		04/23/12 21:43	108-67-8	
Vinyl acetate	ND	ug/m3	228	321.6		04/23/12 21:43	108-05-4	
Vinyl chloride	ND	ug/m3	83.6	321.6		04/23/12 21:43	75-01-4	
m&p-Xylene	ND	ug/m3	566	321.6		04/23/12 21:43	179601-23-1	
o-Xylene	ND	ug/m3	283	321.6		04/23/12 21:43	95-47-6	

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

QUALITY CONTROL DATA

Project: CRC
Pace Project No.: 10189318

QC Batch: AIR/14738
QC Batch Method: TO-15
Analysis Method: TO-15
Analysis Description: TO15 MSV AIR Low Level
Associated Lab Samples: 10189318001

METHOD BLANK: 1180468
Matrix: Air
Associated Lab Samples: 10189318001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/m3	ND	1.1	04/23/12 16:46	
1,1,2,2-Tetrachloroethane	ug/m3	ND	0.70	04/23/12 16:46	
1,1,2-Trichloroethane	ug/m3	ND	0.55	04/23/12 16:46	
1,1,2-Trichlorotrifluoroethane	ug/m3	ND	1.6	04/23/12 16:46	
1,1-Dichloroethane	ug/m3	ND	0.82	04/23/12 16:46	
1,1-Dichloroethene	ug/m3	ND	0.81	04/23/12 16:46	
1,2,4-Trichlorobenzene	ug/m3	ND	0.99	04/23/12 16:46	
1,2,4-Trimethylbenzene	ug/m3	ND	1.0	04/23/12 16:46	
1,2-Dibromoethane (EDB)	ug/m3	ND	1.6	04/23/12 16:46	
1,2-Dichlorobenzene	ug/m3	ND	1.2	04/23/12 16:46	
1,2-Dichloroethane	ug/m3	ND	0.41	04/23/12 16:46	
1,2-Dichloropropane	ug/m3	ND	0.94	04/23/12 16:46	
1,3,5-Trimethylbenzene	ug/m3	ND	1.0	04/23/12 16:46	
1,3-Butadiene	ug/m3	ND	0.45	04/23/12 16:46	
1,3-Dichlorobenzene	ug/m3	ND	1.2	04/23/12 16:46	
1,4-Dichlorobenzene	ug/m3	ND	1.2	04/23/12 16:46	
2-Butanone (MEK)	ug/m3	ND	0.60	04/23/12 16:46	
2-Hexanone	ug/m3	ND	0.83	04/23/12 16:46	
2-Propanol	ug/m3	ND	2.5	04/23/12 16:46	
4-Ethyltoluene	ug/m3	ND	1.0	04/23/12 16:46	
4-Methyl-2-pentanone (MIBK)	ug/m3	ND	0.83	04/23/12 16:46	
Acetone	ug/m3	ND	0.48	04/23/12 16:46	
Benzene	ug/m3	ND	0.32	04/23/12 16:46	
Benzyl chloride	ug/m3	ND	1.0	04/23/12 16:46	
Bromodichloromethane	ug/m3	ND	1.4	04/23/12 16:46	
Bromoform	ug/m3	ND	2.1	04/23/12 16:46	
Bromomethane	ug/m3	ND	0.79	04/23/12 16:46	
Carbon disulfide	ug/m3	ND	0.63	04/23/12 16:46	
Carbon tetrachloride	ug/m3	ND	0.64	04/23/12 16:46	
Chlorobenzene	ug/m3	ND	0.94	04/23/12 16:46	
Chloroethane	ug/m3	ND	0.54	04/23/12 16:46	
Chloroform	ug/m3	ND	0.99	04/23/12 16:46	
Chloromethane	ug/m3	ND	0.42	04/23/12 16:46	
cis-1,2-Dichloroethene	ug/m3	ND	0.81	04/23/12 16:46	
cis-1,3-Dichloropropene	ug/m3	ND	0.92	04/23/12 16:46	
Cyclohexane	ug/m3	ND	0.68	04/23/12 16:46	
Dibromochloromethane	ug/m3	ND	1.7	04/23/12 16:46	
Dichlorodifluoromethane	ug/m3	ND	1.0	04/23/12 16:46	
Dichlorotetrafluoroethane	ug/m3	ND	1.4	04/23/12 16:46	
Ethanol	ug/m3	ND	0.38	04/23/12 16:46	
Ethyl acetate	ug/m3	ND	0.73	04/23/12 16:46	
Ethylbenzene	ug/m3	ND	0.88	04/23/12 16:46	
Hexachloro-1,3-butadiene	ug/m3	ND	2.2	04/23/12 16:46	

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(612)607-1700

QUALITY CONTROL DATA

Project: CRC
Pace Project No.: 10189318

METHOD BLANK: 1180468 Matrix: Air

Associated Lab Samples: 10189318001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
m&p-Xylene	ug/m3	ND	1.8	04/23/12 16:46	
Methyl-tert-butyl ether	ug/m3	ND	0.73	04/23/12 16:46	
Methylene Chloride	ug/m3	ND	0.71	04/23/12 16:46	
n-Heptane	ug/m3	ND	0.83	04/23/12 16:46	
n-Hexane	ug/m3	ND	0.72	04/23/12 16:46	
Naphthalene	ug/m3	ND	1.1	04/23/12 16:46	
o-Xylene	ug/m3	ND	0.88	04/23/12 16:46	
Propylene	ug/m3	ND	0.35	04/23/12 16:46	
Styrene	ug/m3	ND	0.87	04/23/12 16:46	
Tetrachloroethene	ug/m3	ND	0.69	04/23/12 16:46	
Tetrahydrofuran	ug/m3	ND	0.60	04/23/12 16:46	
Toluene	ug/m3	ND	0.77	04/23/12 16:46	
trans-1,2-Dichloroethene	ug/m3	ND	0.81	04/23/12 16:46	
trans-1,3-Dichloropropene	ug/m3	ND	0.92	04/23/12 16:46	
Trichloroethene	ug/m3	ND	0.55	04/23/12 16:46	
Trichlorofluoromethane	ug/m3	ND	1.1	04/23/12 16:46	
Vinyl acetate	ug/m3	ND	0.71	04/23/12 16:46	
Vinyl chloride	ug/m3	ND	0.26	04/23/12 16:46	

LABORATORY CONTROL SAMPLE: 1180469

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/m3	55.5	42.8	77	72-129	
1,1,2,2-Tetrachloroethane	ug/m3	69.8	68.3	98	73-131	
1,1,2-Trichloroethane	ug/m3	55.5	47.3	85	71-128	
1,1,2-Trichlorotrifluoroethane	ug/m3	77.9	57.0	73	65-132	
1,1-Dichloroethane	ug/m3	41.2	32.4	79	67-132	
1,1-Dichloroethene	ug/m3	40.3	31.7	79	68-134	
1,2,4-Trichlorobenzene	ug/m3	75.5	104	138	48-150	
1,2,4-Trimethylbenzene	ug/m3	50	45.4	91	72-127	
1,2-Dibromoethane (EDB)	ug/m3	78.1	69.4	89	75-130	
1,2-Dichlorobenzene	ug/m3	61.2	55.0	90	71-132	
1,2-Dichloroethane	ug/m3	41.2	32.3	79	70-131	
1,2-Dichloropropane	ug/m3	47	43.3	92	73-130	
1,3,5-Trimethylbenzene	ug/m3	50	49.8	100	70-133	
1,3-Butadiene	ug/m3	22.5	20.3	90	69-132	
1,3-Dichlorobenzene	ug/m3	61.2	65.0	106	71-128	
1,4-Dichlorobenzene	ug/m3	61.2	57.6	94	72-131	
2-Butanone (MEK)	ug/m3	30	28.9	96	69-131	
2-Hexanone	ug/m3	41.7	39.4	95	71-134	
2-Propanol	ug/m3	25	18.1	72	72-132	
4-Ethyltoluene	ug/m3	50	45.1	90	71-129	
4-Methyl-2-pentanone (MIBK)	ug/m3	41.7	39.4	95	69-135	
Acetone	ug/m3	24.2	20.9	87	61-139	
Benzene	ug/m3	32.5	29.4	91	69-134	

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QUALITY CONTROL DATA

Project: CRC
Pace Project No.: 10189318

LABORATORY CONTROL SAMPLE: 1180469

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Benzyl chloride	ug/m3	52.5	53.7	102	70-129	
Bromodichloromethane	ug/m3	68.2	60.5	89	71-130	
Bromoform	ug/m3	105	97.6	93	70-130	
Bromomethane	ug/m3	39.5	33.7	85	69-125	SS
Carbon disulfide	ug/m3	31.7	26.5	84	66-131	SS
Carbon tetrachloride	ug/m3	64	51.7	81	68-128	
Chlorobenzene	ug/m3	46.8	40.6	87	75-128	
Chloroethane	ug/m3	26.8	23.4	87	66-131	SS
Chloroform	ug/m3	49.7	40.3	81	68-132	
Chloromethane	ug/m3	21	16.2	77	60-139	
cis-1,2-Dichloroethene	ug/m3	40.3	36.7	91	73-130	
cis-1,3-Dichloropropene	ug/m3	46.2	47.8	104	74-134	
Cyclohexane	ug/m3	35	31.9	91	67-136	
Dibromochloromethane	ug/m3	86.6	81.9	95	69-131	
Dichlorodifluoromethane	ug/m3	50.3	36.2	72	67-131	
Dichlorotetrafluoroethane	ug/m3	71.1	54.8	77	66-130	
Ethanol	ug/m3	19.2	17.0	89	69-131	SS
Ethyl acetate	ug/m3	36.6	32.8	90	71-131	
Ethylbenzene	ug/m3	44.2	41.2	93	69-139	
Hexachloro-1,3-butadiene	ug/m3	108	120	111	41-150	
m&p-Xylene	ug/m3	88.3	77.7	88	66-137	
Methyl-tert-butyl ether	ug/m3	36.7	29.9	82	70-132	
Methylene Chloride	ug/m3	35.3	34.6	98	73-134	
n-Heptane	ug/m3	41.7	36.6	88	70-134	
n-Hexane	ug/m3	35.8	24.6	69	65-133	
Naphthalene	ug/m3	53.3	76.3	143	57-150	
o-Xylene	ug/m3	44.2	40.7	92	69-138	
Propylene	ug/m3	17.5	15.6	89	70-134	
Styrene	ug/m3	43.3	45.9	106	72-132	
Tetrachloroethene	ug/m3	69	58.7	85	70-130	
Tetrahydrofuran	ug/m3	30	28.8	96	74-128	
Toluene	ug/m3	38.3	32.2	84	71-132	
trans-1,2-Dichloroethene	ug/m3	40.3	35.3	88	72-128	
trans-1,3-Dichloropropene	ug/m3	46.2	42.9	93	73-130	
Trichloroethene	ug/m3	54.6	48.0	88	72-131	
Trichlorofluoromethane	ug/m3	57.1	40.0	70	66-129	
Vinyl acetate	ug/m3	35.8	29.7	83	71-131	
Vinyl chloride	ug/m3	26	23.2	89	70-131	

SAMPLE DUPLICATE: 1180860

Parameter	Units	10189138002 Result	Dup Result	RPD	Max RPD	Qualifiers
1,1,1-Trichloroethane	ug/m3	ND	1.3J		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
Pace Project No.: 10189318

SAMPLE DUPLICATE: 1180860

Parameter	Units	10189138002 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	36.3	34.7	5	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	6.5	6.3	2	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	2.4	2.4	.2	25	
2-Hexanone	ug/m3	ND	ND		25	
2-Propanol	ug/m3	37.3	10.8	110	25	R1
4-Ethyltoluene	ug/m3	9.6	8.7	10	25	
4-Methyl-2-pentanone (MIBK)	ug/m3	ND	ND		25	
Acetone	ug/m3	17.6	15.1	15	25	
Benzene	ug/m3	1.6	1.5	5	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	1.4	1.5	10	25	SS
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	2.4	2.0	16	25	
Dichlorotetrafluoroethane	ug/m3	ND	ND		25	
Ethanol	ug/m3	8.3	7.5	10	25	SS
Ethyl acetate	ug/m3	ND	ND		25	
Ethylbenzene	ug/m3	10.1	9.5	7	25	
Hexachloro-1,3-butadiene	ug/m3	ND	ND		25	
m&p-Xylene	ug/m3	41.5	39.8	4	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	3.2	3.1	2	25	
Naphthalene	ug/m3	28.9	21.5	29	25	R1
o-Xylene	ug/m3	17.4	16.6	5	25	
Propylene	ug/m3	4.2	3.0	31	25	R1
Styrene	ug/m3	ND	ND		25	
Tetrachloroethene	ug/m3	108	107	1	25	

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QUALITY CONTROL DATA

Project: CRC
Pace Project No.: 10189318

SAMPLE DUPLICATE: 1180860

Parameter	Units	10189138002 Result	Dup Result	RPD	Max RPD	Qualifiers
Tetrahydrofuran	ug/m3	ND	ND		25	
Toluene	ug/m3	21.9	21.7	.6	25	
trans-1,2-Dichloroethene	ug/m3	ND	ND		25	
trans-1,3-Dichloropropene	ug/m3	ND	ND		25	
Trichloroethene	ug/m3	1.5	1.3	15	25	
Trichlorofluoromethane	ug/m3	ND	1.4J		25	
Vinyl acetate	ug/m3	ND	ND		25	
Vinyl chloride	ug/m3	ND	ND		25	

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QUALIFIERS

Project: CRC
Pace Project No.: 10189318

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.

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: 10189318001

[1] This result is reported from a serial dilution

ANALYTE QUALIFIERS

R1 RPD value was outside control limits.

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

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Minneapolis, MN 55414
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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: CRC
Pace Project No.: 10189318

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10189318001	**DPE-EXHAUST-1071**	TO-15	AIR/14738		

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CHAIN-OF-CUSTODY / Analytical Request Document

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

10189318

10189318

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

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER

☐ UST ☐ RCRA ☐ THER_____

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

Valid Matrix Codes

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

ITEM #	Section D Required Client Information SAMPLE ID (A-Z, 0-9 / ,-) One Character per box. Samples IDs MUST BE UNIQUE	MATRIX CODE	SAMPLE TYPE G=GRAB C=COMP	COLLECTED COMPOSITE START DATE	COLLECTED COMPOSITE START TIME	COLLECTED COMPOSITE END/GRAB DATE	COLLECTED COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	#OF CONTAINERS	Preservatives Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Filtered (Y/N)	Requested Analysis TO-15	Pace Project Number Lab I.D.
1	DPE-EXHAUST-1071	A	C	4/18/12	9:29	4/18/12	15:01												X	10189318001
2																				
3																				
4																				
5																				
6																				
7																				
8																				

Additional Comments:

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
			[signature] VAN	4-19-12	11:30

SAMPLE CONDITIONS

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

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Eric Gabrielson

SIGNATURE of SAMPLER: [signature]

DATE Signed (MM / DD / YY): 4/19/12

Pace Analytical	Document Name: Air Sample Condition Upon Recipt	Document Revised: 12Apr2012 Page: 1 of 1
	Document Number: F-MN-A-106-rev.03	Issuing Authority: Pace Minnesota Quality Office

AIR Sample Condition Upon Receipt

Client Name: LANDMARK Project #: 10189318

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

Custody Seal on Cooler/Box Present: ☐ yes ☒ no Seals intact: ☐ yes ☐ no

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

Optional
Proj. Due Date:
Proj. Name:

Temperature (TO17 and TO13 samples only): _____
Temp should be above freezing to 6°C

Tracking #: _____

Date and Initials of person examining contents: 4-19-12 JK

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

Canisters		Flow Controllers		Stand Alone G	
Sample Number	Can ID	Sample Number	Can ID	Sample Number	Can ID
DPE-EXHAUST	1071		FC0254		

Client Notification/ Resolution:

Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: AF1 Date: 4/19/12

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

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

February 24, 2012

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

RE: Project: CRC City of Rochester
Pace Project No.: 10183331

Dear Mr. Skramstad:
Enclosed are the analytical results for sample(s) received by the laboratory on February 17, 2012. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

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

Sincerely,

Carolynne Trout

Carolynne Trout

carolynne.trout@pacelabs.com
Project Manager

Enclosures

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CERTIFICATIONS

Project: CRC City of Rochester
Pace Project No.: 10183331

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
EPA Region 8 Certification #: Pace
Florida/NELAP Certification #: E87605
Georgia Certification #: 959
Idaho Certification #: MN00064
Illinois Certification #: 200011
Iowa Certification #: 368
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 Mexico Certification #: Pace
New York Certification #: 11647
North Carolina Certification #: 530
North Dakota Certification #: R-036
North Dakota Certification #: R-036A
Ohio VAP Certification #: CL101
Oklahoma Certification #: D9921
Oklahoma Certification #: 9507
Oregon Certification #: MN200001
Pennsylvania Certification #: 68-00563
Puerto Rico Certification
Tennessee Certification #: 02818
Texas Certification #: T104704192
Washington Certification #: C754
Wisconsin Certification #: 999407970

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SAMPLE SUMMARY

Project: CRC City of Rochester
Pace Project No.: 10183331

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10183331001	**DPE-1**	Water	02/16/12 06:15	02/17/12 13:11
10183331002	**DPE-2**	Water	02/16/12 06:30	02/17/12 13:11
10183331003	**DPE-3**	Water	02/16/12 07:45	02/17/12 13:11
10183331004	**DPE-4**	Water	02/16/12 08:00	02/17/12 13:11
10183331005	**DPE-5**	Water	02/16/12 08:15	02/17/12 13:11
10183331006	**DPE-6**	Water	02/16/12 08:30	02/17/12 13:11
10183331007	**DPE-7**	Water	02/16/12 08:45	02/17/12 13:11
10183331008	**MW-14**	Water	02/15/12 16:20	02/17/12 13:11
10183331009	**MW-15**	Water	02/15/12 17:10	02/17/12 13:11
10183331010	**MW-16**	Water	02/15/12 20:10	02/17/12 13:11
10183331011	**MW-17**	Water	02/15/12 18:20	02/17/12 13:11
10183331012	**MW-18**	Water	02/15/12 17:50	02/17/12 13:11
10183331013	**MW-19**	Water	02/15/12 15:45	02/17/12 13:11
10183331014	**MW-20**	Water	02/15/12 19:00	02/17/12 13:11
10183331015	**Trip Blank**	Water	02/15/12 00:00	02/17/12 13:11

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SAMPLE ANALYTE COUNT

Project: CRC City of Rochester
Pace Project No.: 10183331

Lab ID	Sample ID	Method	Analysts	Analytes Reported
10183331001	**DPE-1**	EPA 8260	SE	73
10183331002	**DPE-2**	EPA 8260	SE	73
10183331003	**DPE-3**	EPA 8260	SE	73
10183331004	**DPE-4**	EPA 8260	SE	73
10183331005	**DPE-5**	EPA 8260	SE	73
10183331006	**DPE-6**	EPA 8260	SE	73
10183331007	**DPE-7**	EPA 8260	SE	73
10183331008	**MW-14**	EPA 8260	SE	73
10183331009	**MW-15**	EPA 8260	SE	73
10183331010	**MW-16**	EPA 8260	SE	73
10183331011	**MW-17**	EPA 8260	SE	73
10183331012	**MW-18**	EPA 8260	SE	73
10183331013	**MW-19**	EPA 8260	SE	73
10183331014	**MW-20**	EPA 8260	SE	73
10183331015	**Trip Blank**	EPA 8260	SE	73

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ANALYTICAL RESULTS

Project: CRC City of Rochester
Pace Project No.: 10183331

Sample: DPE-1 **Lab ID: 10183331001** Collected: 02/16/12 06:15 Received: 02/17/12 13:11 Matrix: Water

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

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ANALYTICAL RESULTS

Project: CRC City of Rochester
Pace Project No.: 10183331

Sample: DPE-1 **Lab ID: 10183331001** Collected: 02/16/12 06:15 Received: 02/17/12 13:11 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		02/20/12 20:25	91-20-3	
n-Propylbenzene	ND	ug/L	1.0	1		02/20/12 20:25	103-65-1	
Styrene	ND	ug/L	1.0	1		02/20/12 20:25	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		02/20/12 20:25	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		02/20/12 20:25	79-34-5	
Tetrachloroethene	**26.4**	ug/L	1.0	1		02/20/12 20:25	127-18-4	
Tetrahydrofuran	ND	ug/L	10.0	1		02/20/12 20:25	109-99-9	
Toluene	ND	ug/L	1.0	1		02/20/12 20:25	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		02/20/12 20:25	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		02/20/12 20:25	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		02/20/12 20:25	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		02/20/12 20:25	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		02/20/12 20:25	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		02/20/12 20:25	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	4.0	1		02/20/12 20:25	96-18-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/L	1.0	1		02/20/12 20:25	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1		02/20/12 20:25	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1		02/20/12 20:25	108-67-8	
Vinyl chloride	ND	ug/L	0.40	1		02/20/12 20:25	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		02/20/12 20:25	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		02/20/12 20:25	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		02/20/12 20:25	95-47-6	
Surrogates								
Dibromofluoromethane (S)	102	%	75-125	1		02/20/12 20:25	1868-53-7	
1,2-Dichloroethane-d4 (S)	98	%	75-125	1		02/20/12 20:25	17060-07-0	
Toluene-d8 (S)	111	%	75-125	1		02/20/12 20:25	2037-26-5	
4-Bromofluorobenzene (S)	96	%	75-125	1		02/20/12 20:25	460-00-4	

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ANALYTICAL RESULTS

Project: CRC City of Rochester
Pace Project No.: 10183331

Sample: DPE-2 **Lab ID: 10183331002** Collected: 02/16/12 06:30 Received: 02/17/12 13:11 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 VOC	Analytical Method: EPA 8260							
Acetone	ND	ug/L	125	5		02/22/12 19:45	67-64-1	
Allyl chloride	ND	ug/L	20.0	5		02/22/12 19:45	107-05-1	
Benzene	ND	ug/L	5.0	5		02/22/12 19:45	71-43-2	
Bromobenzene	ND	ug/L	5.0	5		02/22/12 19:45	108-86-1	
Bromochloromethane	ND	ug/L	5.0	5		02/22/12 19:45	74-97-5	
Bromodichloromethane	ND	ug/L	5.0	5		02/22/12 19:45	75-27-4	
Bromoform	ND	ug/L	20.0	5		02/22/12 19:45	75-25-2	
Bromomethane	ND	ug/L	20.0	5		02/22/12 19:45	74-83-9	
2-Butanone (MEK)	ND	ug/L	20.0	5		02/22/12 19:45	78-93-3	
n-Butylbenzene	ND	ug/L	5.0	5		02/22/12 19:45	104-51-8	
sec-Butylbenzene	ND	ug/L	5.0	5		02/22/12 19:45	135-98-8	
tert-Butylbenzene	ND	ug/L	5.0	5		02/22/12 19:45	98-06-6	
Carbon tetrachloride	ND	ug/L	5.0	5		02/22/12 19:45	56-23-5	
Chlorobenzene	ND	ug/L	5.0	5		02/22/12 19:45	108-90-7	
Chloroethane	ND	ug/L	5.0	5		02/22/12 19:45	75-00-3	
Chloroform	ND	ug/L	5.0	5		02/22/12 19:45	67-66-3	
Chloromethane	ND	ug/L	20.0	5		02/22/12 19:45	74-87-3	
2-Chlorotoluene	ND	ug/L	5.0	5		02/22/12 19:45	95-49-8	
4-Chlorotoluene	ND	ug/L	5.0	5		02/22/12 19:45	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	20.0	5		02/22/12 19:45	96-12-8	
Dibromochloromethane	ND	ug/L	5.0	5		02/22/12 19:45	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	5		02/22/12 19:45	106-93-4	
Dibromomethane	ND	ug/L	20.0	5		02/22/12 19:45	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	5		02/22/12 19:45	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	5		02/22/12 19:45	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	5		02/22/12 19:45	106-46-7	
Dichlorodifluoromethane	ND	ug/L	5.0	5		02/22/12 19:45	75-71-8	
1,1-Dichloroethane	ND	ug/L	5.0	5		02/22/12 19:45	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	5		02/22/12 19:45	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	5		02/22/12 19:45	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	5		02/22/12 19:45	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	5		02/22/12 19:45	156-60-5	
Dichlorofluoromethane	ND	ug/L	5.0	5		02/22/12 19:45	75-43-4	
1,2-Dichloropropane	ND	ug/L	20.0	5		02/22/12 19:45	78-87-5	
1,3-Dichloropropane	ND	ug/L	5.0	5		02/22/12 19:45	142-28-9	
2,2-Dichloropropane	ND	ug/L	20.0	5		02/22/12 19:45	594-20-7	
1,1-Dichloropropene	ND	ug/L	5.0	5		02/22/12 19:45	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	20.0	5		02/22/12 19:45	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	20.0	5		02/22/12 19:45	10061-02-6	
Diethyl ether (Ethyl ether)	ND	ug/L	20.0	5		02/22/12 19:45	60-29-7	
Ethylbenzene	ND	ug/L	5.0	5		02/22/12 19:45	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	25.0	5		02/22/12 19:45	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	5.0	5		02/22/12 19:45	98-82-8	
p-Isopropyltoluene	ND	ug/L	5.0	5		02/22/12 19:45	99-87-6	
Methylene Chloride	ND	ug/L	20.0	5		02/22/12 19:45	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	20.0	5		02/22/12 19:45	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	5.0	5		02/22/12 19:45	1634-04-4	

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ANALYTICAL RESULTS

Project: CRC City of Rochester
Pace Project No.: 10183331

Sample: DPE-2 **Lab ID: 10183331002** Collected: 02/16/12 06:30 Received: 02/17/12 13:11 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 VOC	Analytical Method: EPA 8260							
Naphthalene	ND	ug/L	20.0	5		02/22/12 19:45	91-20-3	
n-Propylbenzene	ND	ug/L	5.0	5		02/22/12 19:45	103-65-1	
Styrene	ND	ug/L	5.0	5		02/22/12 19:45	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	5		02/22/12 19:45	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	5		02/22/12 19:45	79-34-5	
Tetrachloroethene	**511**	ug/L	5.0	5		02/22/12 19:45	127-18-4	
Tetrahydrofuran	ND	ug/L	50.0	5		02/22/12 19:45	109-99-9	
Toluene	ND	ug/L	5.0	5		02/22/12 19:45	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	5.0	5		02/22/12 19:45	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	5		02/22/12 19:45	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	5.0	5		02/22/12 19:45	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	5		02/22/12 19:45	79-00-5	
Trichloroethene	ND	ug/L	5.0	5		02/22/12 19:45	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	5		02/22/12 19:45	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	20.0	5		02/22/12 19:45	96-18-4	
1,1,2-Trichlorotrifluoroethane	**41.5**	ug/L	5.0	5		02/22/12 19:45	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/L	5.0	5		02/22/12 19:45	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	5.0	5		02/22/12 19:45	108-67-8	
Vinyl chloride	ND	ug/L	2.0	5		02/22/12 19:45	75-01-4	
Xylene (Total)	ND	ug/L	15.0	5		02/22/12 19:45	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	5		02/22/12 19:45	179601-23-1	
o-Xylene	ND	ug/L	5.0	5		02/22/12 19:45	95-47-6	
Surrogates								
Dibromofluoromethane (S)	101	%	75-125	5		02/22/12 19:45	1868-53-7	
1,2-Dichloroethane-d4 (S)	96	%	75-125	5		02/22/12 19:45	17060-07-0	
Toluene-d8 (S)	101	%	75-125	5		02/22/12 19:45	2037-26-5	
4-Bromofluorobenzene (S)	95	%	75-125	5		02/22/12 19:45	460-00-4	

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ANALYTICAL RESULTS

Project: CRC City of Rochester
Pace Project No.: 10183331

Sample: DPE-3 **Lab ID: 10183331003** Collected: 02/16/12 07:45 Received: 02/17/12 13:11 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 VOC	Analytical Method: EPA 8260							
Acetone	ND	ug/L	250	10		02/23/12 18:21	67-64-1	
Allyl chloride	ND	ug/L	40.0	10		02/23/12 18:21	107-05-1	
Benzene	ND	ug/L	10.0	10		02/23/12 18:21	71-43-2	
Bromobenzene	ND	ug/L	10.0	10		02/23/12 18:21	108-86-1	
Bromochloromethane	ND	ug/L	10.0	10		02/23/12 18:21	74-97-5	
Bromodichloromethane	ND	ug/L	10.0	10		02/23/12 18:21	75-27-4	
Bromoform	ND	ug/L	40.0	10		02/23/12 18:21	75-25-2	
Bromomethane	ND	ug/L	40.0	10		02/23/12 18:21	74-83-9	
2-Butanone (MEK)	ND	ug/L	40.0	10		02/23/12 18:21	78-93-3	
n-Butylbenzene	ND	ug/L	10.0	10		02/23/12 18:21	104-51-8	
sec-Butylbenzene	ND	ug/L	10.0	10		02/23/12 18:21	135-98-8	
tert-Butylbenzene	ND	ug/L	10.0	10		02/23/12 18:21	98-06-6	
Carbon tetrachloride	ND	ug/L	10.0	10		02/23/12 18:21	56-23-5	
Chlorobenzene	ND	ug/L	10.0	10		02/23/12 18:21	108-90-7	
Chloroethane	ND	ug/L	10.0	10		02/23/12 18:21	75-00-3	
Chloroform	ND	ug/L	10.0	10		02/23/12 18:21	67-66-3	
Chloromethane	ND	ug/L	40.0	10		02/23/12 18:21	74-87-3	
2-Chlorotoluene	ND	ug/L	10.0	10		02/23/12 18:21	95-49-8	
4-Chlorotoluene	ND	ug/L	10.0	10		02/23/12 18:21	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	40.0	10		02/23/12 18:21	96-12-8	
Dibromochloromethane	ND	ug/L	10.0	10		02/23/12 18:21	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	10.0	10		02/23/12 18:21	106-93-4	
Dibromomethane	ND	ug/L	40.0	10		02/23/12 18:21	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	10.0	10		02/23/12 18:21	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	10.0	10		02/23/12 18:21	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	10.0	10		02/23/12 18:21	106-46-7	
Dichlorodifluoromethane	ND	ug/L	10.0	10		02/23/12 18:21	75-71-8	
1,1-Dichloroethane	ND	ug/L	10.0	10		02/23/12 18:21	75-34-3	
1,2-Dichloroethane	ND	ug/L	10.0	10		02/23/12 18:21	107-06-2	
1,1-Dichloroethene	ND	ug/L	10.0	10		02/23/12 18:21	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	10.0	10		02/23/12 18:21	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	10.0	10		02/23/12 18:21	156-60-5	
Dichlorofluoromethane	ND	ug/L	10.0	10		02/23/12 18:21	75-43-4	
1,2-Dichloropropane	ND	ug/L	40.0	10		02/23/12 18:21	78-87-5	
1,3-Dichloropropane	ND	ug/L	10.0	10		02/23/12 18:21	142-28-9	
2,2-Dichloropropane	ND	ug/L	40.0	10		02/23/12 18:21	594-20-7	
1,1-Dichloropropene	ND	ug/L	10.0	10		02/23/12 18:21	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	40.0	10		02/23/12 18:21	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	40.0	10		02/23/12 18:21	10061-02-6	
Diethyl ether (Ethyl ether)	ND	ug/L	40.0	10		02/23/12 18:21	60-29-7	
Ethylbenzene	ND	ug/L	10.0	10		02/23/12 18:21	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	50.0	10		02/23/12 18:21	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	10.0	10		02/23/12 18:21	98-82-8	
p-Isopropyltoluene	ND	ug/L	10.0	10		02/23/12 18:21	99-87-6	
Methylene Chloride	ND	ug/L	40.0	10		02/23/12 18:21	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	40.0	10		02/23/12 18:21	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	10.0	10		02/23/12 18:21	1634-04-4	

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ANALYTICAL RESULTS

Project: CRC City of Rochester
Pace Project No.: 10183331

Sample: DPE-3 **Lab ID: 10183331003** Collected: 02/16/12 07:45 Received: 02/17/12 13:11 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 VOC	Analytical Method: EPA 8260							
Naphthalene	ND	ug/L	40.0	10		02/23/12 18:21	91-20-3	
n-Propylbenzene	ND	ug/L	10.0	10		02/23/12 18:21	103-65-1	
Styrene	ND	ug/L	10.0	10		02/23/12 18:21	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	10.0	10		02/23/12 18:21	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	10.0	10		02/23/12 18:21	79-34-5	
Tetrachloroethene	**1010**	ug/L	20.0	20		02/22/12 19:32	127-18-4	
Tetrahydrofuran	ND	ug/L	100	10		02/23/12 18:21	109-99-9	
Toluene	ND	ug/L	10.0	10		02/23/12 18:21	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	10.0	10		02/23/12 18:21	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	10.0	10		02/23/12 18:21	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	10.0	10		02/23/12 18:21	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	10.0	10		02/23/12 18:21	79-00-5	
Trichloroethene	ND	ug/L	10.0	10		02/23/12 18:21	79-01-6	
Trichlorofluoromethane	ND	ug/L	10.0	10		02/23/12 18:21	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	40.0	10		02/23/12 18:21	96-18-4	
1,1,2-Trichlorotrifluoroethane	**251**	ug/L	10.0	10		02/23/12 18:21	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/L	10.0	10		02/23/12 18:21	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	10.0	10		02/23/12 18:21	108-67-8	
Vinyl chloride	ND	ug/L	4.0	10		02/23/12 18:21	75-01-4	
Xylene (Total)	ND	ug/L	30.0	10		02/23/12 18:21	1330-20-7	
m&p-Xylene	ND	ug/L	20.0	10		02/23/12 18:21	179601-23-1	
o-Xylene	ND	ug/L	10.0	10		02/23/12 18:21	95-47-6	
Surrogates								
Dibromofluoromethane (S)	101	%	75-125	10		02/23/12 18:21	1868-53-7	
1,2-Dichloroethane-d4 (S)	95	%	75-125	10		02/23/12 18:21	17060-07-0	
Toluene-d8 (S)	98	%	75-125	10		02/23/12 18:21	2037-26-5	
4-Bromofluorobenzene (S)	99	%	75-125	10		02/23/12 18:21	460-00-4	

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ANALYTICAL RESULTS

Project: CRC City of Rochester
Pace Project No.: 10183331

Sample: DPE-4 **Lab ID: 10183331004** Collected: 02/16/12 08:00 Received: 02/17/12 13:11 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 VOC	Analytical Method: EPA 8260							
Acetone	ND	ug/L	125	5		02/21/12 00:07	67-64-1	
Allyl chloride	ND	ug/L	20.0	5		02/21/12 00:07	107-05-1	
Benzene	ND	ug/L	5.0	5		02/21/12 00:07	71-43-2	
Bromobenzene	ND	ug/L	5.0	5		02/21/12 00:07	108-86-1	
Bromochloromethane	ND	ug/L	5.0	5		02/21/12 00:07	74-97-5	
Bromodichloromethane	ND	ug/L	5.0	5		02/21/12 00:07	75-27-4	
Bromoform	ND	ug/L	20.0	5		02/21/12 00:07	75-25-2	
Bromomethane	ND	ug/L	20.0	5		02/21/12 00:07	74-83-9	
2-Butanone (MEK)	ND	ug/L	20.0	5		02/21/12 00:07	78-93-3	
n-Butylbenzene	ND	ug/L	5.0	5		02/21/12 00:07	104-51-8	
sec-Butylbenzene	ND	ug/L	5.0	5		02/21/12 00:07	135-98-8	
tert-Butylbenzene	ND	ug/L	5.0	5		02/21/12 00:07	98-06-6	
Carbon tetrachloride	ND	ug/L	5.0	5		02/21/12 00:07	56-23-5	
Chlorobenzene	ND	ug/L	5.0	5		02/21/12 00:07	108-90-7	
Chloroethane	ND	ug/L	5.0	5		02/21/12 00:07	75-00-3	
Chloroform	ND	ug/L	5.0	5		02/21/12 00:07	67-66-3	
Chloromethane	ND	ug/L	20.0	5		02/21/12 00:07	74-87-3	
2-Chlorotoluene	ND	ug/L	5.0	5		02/21/12 00:07	95-49-8	
4-Chlorotoluene	ND	ug/L	5.0	5		02/21/12 00:07	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	20.0	5		02/21/12 00:07	96-12-8	
Dibromochloromethane	ND	ug/L	5.0	5		02/21/12 00:07	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	5		02/21/12 00:07	106-93-4	
Dibromomethane	ND	ug/L	20.0	5		02/21/12 00:07	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	5		02/21/12 00:07	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	5		02/21/12 00:07	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	5		02/21/12 00:07	106-46-7	
Dichlorodifluoromethane	ND	ug/L	5.0	5		02/21/12 00:07	75-71-8	
1,1-Dichloroethane	ND	ug/L	5.0	5		02/21/12 00:07	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	5		02/21/12 00:07	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	5		02/21/12 00:07	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	5		02/21/12 00:07	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	5		02/21/12 00:07	156-60-5	
Dichlorofluoromethane	ND	ug/L	5.0	5		02/21/12 00:07	75-43-4	
1,2-Dichloropropane	ND	ug/L	20.0	5		02/21/12 00:07	78-87-5	
1,3-Dichloropropane	ND	ug/L	5.0	5		02/21/12 00:07	142-28-9	
2,2-Dichloropropane	ND	ug/L	20.0	5		02/21/12 00:07	594-20-7	
1,1-Dichloropropene	ND	ug/L	5.0	5		02/21/12 00:07	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	20.0	5		02/21/12 00:07	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	20.0	5		02/21/12 00:07	10061-02-6	
Diethyl ether (Ethyl ether)	ND	ug/L	20.0	5		02/21/12 00:07	60-29-7	
Ethylbenzene	ND	ug/L	5.0	5		02/21/12 00:07	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	25.0	5		02/21/12 00:07	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	5.0	5		02/21/12 00:07	98-82-8	
p-Isopropyltoluene	ND	ug/L	5.0	5		02/21/12 00:07	99-87-6	
Methylene Chloride	ND	ug/L	20.0	5		02/21/12 00:07	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	20.0	5		02/21/12 00:07	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	5.0	5		02/21/12 00:07	1634-04-4	

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ANALYTICAL RESULTS

Project: CRC City of Rochester
Pace Project No.: 10183331

Sample: DPE-4 **Lab ID: 10183331004** Collected: 02/16/12 08:00 Received: 02/17/12 13:11 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 VOC	Analytical Method: EPA 8260							
Naphthalene	ND	ug/L	20.0	5		02/21/12 00:07	91-20-3	
n-Propylbenzene	ND	ug/L	5.0	5		02/21/12 00:07	103-65-1	
Styrene	ND	ug/L	5.0	5		02/21/12 00:07	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	5		02/21/12 00:07	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	5		02/21/12 00:07	79-34-5	
Tetrachloroethene	**830**	ug/L	5.0	5		02/21/12 00:07	127-18-4	
Tetrahydrofuran	ND	ug/L	50.0	5		02/21/12 00:07	109-99-9	
Toluene	ND	ug/L	5.0	5		02/21/12 00:07	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	5.0	5		02/21/12 00:07	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	5		02/21/12 00:07	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	5.0	5		02/21/12 00:07	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	5		02/21/12 00:07	79-00-5	
Trichloroethene	ND	ug/L	5.0	5		02/21/12 00:07	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	5		02/21/12 00:07	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	20.0	5		02/21/12 00:07	96-18-4	
1,1,2-Trichlorotrifluoroethane	**54.4**	ug/L	5.0	5		02/21/12 00:07	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/L	5.0	5		02/21/12 00:07	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	5.0	5		02/21/12 00:07	108-67-8	
Vinyl chloride	ND	ug/L	2.0	5		02/21/12 00:07	75-01-4	
Xylene (Total)	ND	ug/L	15.0	5		02/21/12 00:07	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	5		02/21/12 00:07	179601-23-1	
o-Xylene	ND	ug/L	5.0	5		02/21/12 00:07	95-47-6	
Surrogates								
Dibromofluoromethane (S)	100	%	75-125	5		02/21/12 00:07	1868-53-7	
1,2-Dichloroethane-d4 (S)	99	%	75-125	5		02/21/12 00:07	17060-07-0	
Toluene-d8 (S)	112	%	75-125	5		02/21/12 00:07	2037-26-5	
4-Bromofluorobenzene (S)	96	%	75-125	5		02/21/12 00:07	460-00-4	

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ANALYTICAL RESULTS

Project: CRC City of Rochester
Pace Project No.: 10183331

Sample: DPE-5 **Lab ID: 10183331005** Collected: 02/16/12 08:15 Received: 02/17/12 13:11 Matrix: Water

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

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ANALYTICAL RESULTS

Project: CRC City of Rochester
Pace Project No.: 10183331

Sample: DPE-5 **Lab ID: 10183331005** Collected: 02/16/12 08:15 Received: 02/17/12 13:11 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		02/20/12 20:38	91-20-3	
n-Propylbenzene	ND	ug/L	1.0	1		02/20/12 20:38	103-65-1	
Styrene	ND	ug/L	1.0	1		02/20/12 20:38	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		02/20/12 20:38	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		02/20/12 20:38	79-34-5	
Tetrachloroethene	**69.5**	ug/L	1.0	1		02/20/12 20:38	127-18-4	
Tetrahydrofuran	ND	ug/L	10.0	1		02/20/12 20:38	109-99-9	
Toluene	ND	ug/L	1.0	1		02/20/12 20:38	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		02/20/12 20:38	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		02/20/12 20:38	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		02/20/12 20:38	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		02/20/12 20:38	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		02/20/12 20:38	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		02/20/12 20:38	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	4.0	1		02/20/12 20:38	96-18-4	
1,1,2-Trichlorotrifluoroethane	**2.2**	ug/L	1.0	1		02/20/12 20:38	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1		02/20/12 20:38	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1		02/20/12 20:38	108-67-8	
Vinyl chloride	ND	ug/L	0.40	1		02/20/12 20:38	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		02/20/12 20:38	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		02/20/12 20:38	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		02/20/12 20:38	95-47-6	
Surrogates								
Dibromofluoromethane (S)	91	%	75-125	1		02/20/12 20:38	1868-53-7	
1,2-Dichloroethane-d4 (S)	95	%	75-125	1		02/20/12 20:38	17060-07-0	
Toluene-d8 (S)	81	%	75-125	1		02/20/12 20:38	2037-26-5	
4-Bromofluorobenzene (S)	103	%	75-125	1		02/20/12 20:38	460-00-4	

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ANALYTICAL RESULTS

Project: CRC City of Rochester
Pace Project No.: 10183331

Sample: DPE-6 **Lab ID: 10183331006** Collected: 02/16/12 08:30 Received: 02/17/12 13:11 Matrix: Water

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

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ANALYTICAL RESULTS

Project: CRC City of Rochester
Pace Project No.: 10183331

Sample: DPE-6 **Lab ID: 10183331006** Collected: 02/16/12 08:30 Received: 02/17/12 13:11 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		02/20/12 21:04	91-20-3	
n-Propylbenzene	ND	ug/L	1.0	1		02/20/12 21:04	103-65-1	
Styrene	ND	ug/L	1.0	1		02/20/12 21:04	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		02/20/12 21:04	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		02/20/12 21:04	79-34-5	
Tetrachloroethene	**44.8**	ug/L	1.0	1		02/20/12 21:04	127-18-4	
Tetrahydrofuran	ND	ug/L	10.0	1		02/20/12 21:04	109-99-9	
Toluene	ND	ug/L	1.0	1		02/20/12 21:04	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		02/20/12 21:04	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		02/20/12 21:04	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		02/20/12 21:04	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		02/20/12 21:04	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		02/20/12 21:04	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		02/20/12 21:04	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	4.0	1		02/20/12 21:04	96-18-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/L	1.0	1		02/20/12 21:04	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1		02/20/12 21:04	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1		02/20/12 21:04	108-67-8	
Vinyl chloride	ND	ug/L	0.40	1		02/20/12 21:04	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		02/20/12 21:04	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		02/20/12 21:04	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		02/20/12 21:04	95-47-6	
Surrogates								
Dibromofluoromethane (S)	101	%	75-125	1		02/20/12 21:04	1868-53-7	
1,2-Dichloroethane-d4 (S)	99	%	75-125	1		02/20/12 21:04	17060-07-0	
Toluene-d8 (S)	95	%	75-125	1		02/20/12 21:04	2037-26-5	
4-Bromofluorobenzene (S)	115	%	75-125	1		02/20/12 21:04	460-00-4	

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ANALYTICAL RESULTS

Project: CRC City of Rochester
Pace Project No.: 10183331

Sample: DPE-7 **Lab ID: 10183331007** Collected: 02/16/12 08:45 Received: 02/17/12 13:11 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 VOC	Analytical Method: EPA 8260							
Acetone	ND	ug/L	25.0	1		02/20/12 21:17	67-64-1	
Allyl chloride	ND	ug/L	4.0	1		02/20/12 21:17	107-05-1	
Benzene	ND	ug/L	1.0	1		02/20/12 21:17	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		02/20/12 21:17	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		02/20/12 21:17	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		02/20/12 21:17	75-27-4	
Bromoform	ND	ug/L	4.0	1		02/20/12 21:17	75-25-2	
Bromomethane	ND	ug/L	4.0	1		02/20/12 21:17	74-83-9	
2-Butanone (MEK)	ND	ug/L	4.0	1		02/20/12 21:17	78-93-3	
n-Butylbenzene	ND	ug/L	1.0	1		02/20/12 21:17	104-51-8	
sec-Butylbenzene	ND	ug/L	1.0	1		02/20/12 21:17	135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	1		02/20/12 21:17	98-06-6	
Carbon tetrachloride	ND	ug/L	1.0	1		02/20/12 21:17	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		02/20/12 21:17	108-90-7	
Chloroethane	ND	ug/L	1.0	1		02/20/12 21:17	75-00-3	
Chloroform	ND	ug/L	1.0	1		02/20/12 21:17	67-66-3	
Chloromethane	ND	ug/L	4.0	1		02/20/12 21:17	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		02/20/12 21:17	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		02/20/12 21:17	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	4.0	1		02/20/12 21:17	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		02/20/12 21:17	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		02/20/12 21:17	106-93-4	
Dibromomethane	ND	ug/L	4.0	1		02/20/12 21:17	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		02/20/12 21:17	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		02/20/12 21:17	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		02/20/12 21:17	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		02/20/12 21:17	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		02/20/12 21:17	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		02/20/12 21:17	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		02/20/12 21:17	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		02/20/12 21:17	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		02/20/12 21:17	156-60-5	
Dichlorofluoromethane	ND	ug/L	1.0	1		02/20/12 21:17	75-43-4	
1,2-Dichloropropane	ND	ug/L	4.0	1		02/20/12 21:17	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		02/20/12 21:17	142-28-9	
2,2-Dichloropropane	ND	ug/L	4.0	1		02/20/12 21:17	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		02/20/12 21:17	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	4.0	1		02/20/12 21:17	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	4.0	1		02/20/12 21:17	10061-02-6	
Diethyl ether (Ethyl ether)	ND	ug/L	4.0	1		02/20/12 21:17	60-29-7	
Ethylbenzene	ND	ug/L	1.0	1		02/20/12 21:17	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	5.0	1		02/20/12 21:17	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		02/20/12 21:17	98-82-8	
p-Isopropyltoluene	ND	ug/L	1.0	1		02/20/12 21:17	99-87-6	
Methylene Chloride	ND	ug/L	4.0	1		02/20/12 21:17	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	4.0	1		02/20/12 21:17	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		02/20/12 21:17	1634-04-4	

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ANALYTICAL RESULTS

Project: CRC City of Rochester
Pace Project No.: 10183331

Sample: DPE-7 **Lab ID: 10183331007** Collected: 02/16/12 08:45 Received: 02/17/12 13:11 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		02/20/12 21:17	91-20-3	
n-Propylbenzene	ND	ug/L	1.0	1		02/20/12 21:17	103-65-1	
Styrene	ND	ug/L	1.0	1		02/20/12 21:17	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		02/20/12 21:17	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		02/20/12 21:17	79-34-5	
Tetrachloroethene	**27.8**	ug/L	1.0	1		02/20/12 21:17	127-18-4	
Tetrahydrofuran	ND	ug/L	10.0	1		02/20/12 21:17	109-99-9	
Toluene	ND	ug/L	1.0	1		02/20/12 21:17	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		02/20/12 21:17	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		02/20/12 21:17	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		02/20/12 21:17	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		02/20/12 21:17	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		02/20/12 21:17	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		02/20/12 21:17	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	4.0	1		02/20/12 21:17	96-18-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/L	1.0	1		02/20/12 21:17	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1		02/20/12 21:17	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1		02/20/12 21:17	108-67-8	
Vinyl chloride	ND	ug/L	0.40	1		02/20/12 21:17	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		02/20/12 21:17	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		02/20/12 21:17	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		02/20/12 21:17	95-47-6	
Surrogates								
Dibromofluoromethane (S)	100	%	75-125	1		02/20/12 21:17	1868-53-7	
1,2-Dichloroethane-d4 (S)	98	%	75-125	1		02/20/12 21:17	17060-07-0	
Toluene-d8 (S)	92	%	75-125	1		02/20/12 21:17	2037-26-5	
4-Bromofluorobenzene (S)	101	%	75-125	1		02/20/12 21:17	460-00-4	

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ANALYTICAL RESULTS

Project: CRC City of Rochester
Pace Project No.: 10183331

Sample: MW-14 **Lab ID: 10183331008** Collected: 02/15/12 16:20 Received: 02/17/12 13:11 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 VOC	Analytical Method: EPA 8260							
Acetone	ND	ug/L	25.0	1		02/20/12 21:30	67-64-1	
Allyl chloride	ND	ug/L	4.0	1		02/20/12 21:30	107-05-1	
Benzene	ND	ug/L	1.0	1		02/20/12 21:30	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		02/20/12 21:30	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		02/20/12 21:30	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		02/20/12 21:30	75-27-4	
Bromoform	ND	ug/L	4.0	1		02/20/12 21:30	75-25-2	
Bromomethane	ND	ug/L	4.0	1		02/20/12 21:30	74-83-9	
2-Butanone (MEK)	ND	ug/L	4.0	1		02/20/12 21:30	78-93-3	
n-Butylbenzene	ND	ug/L	1.0	1		02/20/12 21:30	104-51-8	
sec-Butylbenzene	ND	ug/L	1.0	1		02/20/12 21:30	135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	1		02/20/12 21:30	98-06-6	
Carbon tetrachloride	ND	ug/L	1.0	1		02/20/12 21:30	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		02/20/12 21:30	108-90-7	
Chloroethane	ND	ug/L	1.0	1		02/20/12 21:30	75-00-3	
Chloroform	**1.2**	ug/L	1.0	1		02/20/12 21:30	67-66-3	
Chloromethane	ND	ug/L	4.0	1		02/20/12 21:30	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		02/20/12 21:30	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		02/20/12 21:30	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	4.0	1		02/20/12 21:30	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		02/20/12 21:30	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		02/20/12 21:30	106-93-4	
Dibromomethane	ND	ug/L	4.0	1		02/20/12 21:30	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		02/20/12 21:30	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		02/20/12 21:30	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		02/20/12 21:30	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		02/20/12 21:30	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		02/20/12 21:30	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		02/20/12 21:30	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		02/20/12 21:30	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		02/20/12 21:30	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		02/20/12 21:30	156-60-5	
Dichlorofluoromethane	ND	ug/L	1.0	1		02/20/12 21:30	75-43-4	
1,2-Dichloropropane	ND	ug/L	4.0	1		02/20/12 21:30	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		02/20/12 21:30	142-28-9	
2,2-Dichloropropane	ND	ug/L	4.0	1		02/20/12 21:30	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		02/20/12 21:30	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	4.0	1		02/20/12 21:30	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	4.0	1		02/20/12 21:30	10061-02-6	
Diethyl ether (Ethyl ether)	ND	ug/L	4.0	1		02/20/12 21:30	60-29-7	
Ethylbenzene	ND	ug/L	1.0	1		02/20/12 21:30	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	5.0	1		02/20/12 21:30	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		02/20/12 21:30	98-82-8	
p-Isopropyltoluene	ND	ug/L	1.0	1		02/20/12 21:30	99-87-6	
Methylene Chloride	ND	ug/L	4.0	1		02/20/12 21:30	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	4.0	1		02/20/12 21:30	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		02/20/12 21:30	1634-04-4	

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ANALYTICAL RESULTS

Project: CRC City of Rochester
Pace Project No.: 10183331

Sample: MW-14 **Lab ID: 10183331008** Collected: 02/15/12 16:20 Received: 02/17/12 13:11 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		02/20/12 21:30	91-20-3	
n-Propylbenzene	ND	ug/L	1.0	1		02/20/12 21:30	103-65-1	
Styrene	ND	ug/L	1.0	1		02/20/12 21:30	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		02/20/12 21:30	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		02/20/12 21:30	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		02/20/12 21:30	127-18-4	
Tetrahydrofuran	ND	ug/L	10.0	1		02/20/12 21:30	109-99-9	
Toluene	ND	ug/L	1.0	1		02/20/12 21:30	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		02/20/12 21:30	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		02/20/12 21:30	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		02/20/12 21:30	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		02/20/12 21:30	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		02/20/12 21:30	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		02/20/12 21:30	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	4.0	1		02/20/12 21:30	96-18-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/L	1.0	1		02/20/12 21:30	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1		02/20/12 21:30	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1		02/20/12 21:30	108-67-8	
Vinyl chloride	ND	ug/L	0.40	1		02/20/12 21:30	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		02/20/12 21:30	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		02/20/12 21:30	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		02/20/12 21:30	95-47-6	
Surrogates								
Dibromofluoromethane (S)	105	%	75-125	1		02/20/12 21:30	1868-53-7	
1,2-Dichloroethane-d4 (S)	103	%	75-125	1		02/20/12 21:30	17060-07-0	
Toluene-d8 (S)	94	%	75-125	1		02/20/12 21:30	2037-26-5	
4-Bromofluorobenzene (S)	100	%	75-125	1		02/20/12 21:30	460-00-4	

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ANALYTICAL RESULTS

Project: CRC City of Rochester
Pace Project No.: 10183331

Sample: MW-15 **Lab ID: 10183331009** Collected: 02/15/12 17:10 Received: 02/17/12 13:11 Matrix: Water

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

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ANALYTICAL RESULTS

Project: CRC City of Rochester
Pace Project No.: 10183331

Sample: MW-15 **Lab ID: 10183331009** Collected: 02/15/12 17:10 Received: 02/17/12 13:11 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		02/20/12 21:43	91-20-3	
n-Propylbenzene	ND	ug/L	1.0	1		02/20/12 21:43	103-65-1	
Styrene	ND	ug/L	1.0	1		02/20/12 21:43	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		02/20/12 21:43	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		02/20/12 21:43	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		02/20/12 21:43	127-18-4	
Tetrahydrofuran	ND	ug/L	10.0	1		02/20/12 21:43	109-99-9	
Toluene	ND	ug/L	1.0	1		02/20/12 21:43	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		02/20/12 21:43	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		02/20/12 21:43	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		02/20/12 21:43	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		02/20/12 21:43	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		02/20/12 21:43	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		02/20/12 21:43	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	4.0	1		02/20/12 21:43	96-18-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/L	1.0	1		02/20/12 21:43	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1		02/20/12 21:43	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1		02/20/12 21:43	108-67-8	
Vinyl chloride	ND	ug/L	0.40	1		02/20/12 21:43	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		02/20/12 21:43	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		02/20/12 21:43	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		02/20/12 21:43	95-47-6	
Surrogates								
Dibromofluoromethane (S)	93	%	75-125	1		02/20/12 21:43	1868-53-7	
1,2-Dichloroethane-d4 (S)	104	%	75-125	1		02/20/12 21:43	17060-07-0	
Toluene-d8 (S)	111	%	75-125	1		02/20/12 21:43	2037-26-5	
4-Bromofluorobenzene (S)	105	%	75-125	1		02/20/12 21:43	460-00-4	

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ANALYTICAL RESULTS

Project: CRC City of Rochester
Pace Project No.: 10183331

Sample: MW-16 **Lab ID: 10183331010** Collected: 02/15/12 20:10 Received: 02/17/12 13:11 Matrix: Water

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

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ANALYTICAL RESULTS

Project: CRC City of Rochester
Pace Project No.: 10183331

Sample: MW-16 **Lab ID: 10183331010** Collected: 02/15/12 20:10 Received: 02/17/12 13:11 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		02/20/12 21:56	91-20-3	
n-Propylbenzene	ND	ug/L	1.0	1		02/20/12 21:56	103-65-1	
Styrene	ND	ug/L	1.0	1		02/20/12 21:56	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		02/20/12 21:56	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		02/20/12 21:56	79-34-5	
Tetrachloroethene	**16.1**	ug/L	1.0	1		02/20/12 21:56	127-18-4	
Tetrahydrofuran	ND	ug/L	10.0	1		02/20/12 21:56	109-99-9	
Toluene	ND	ug/L	1.0	1		02/20/12 21:56	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		02/20/12 21:56	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		02/20/12 21:56	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		02/20/12 21:56	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		02/20/12 21:56	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		02/20/12 21:56	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		02/20/12 21:56	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	4.0	1		02/20/12 21:56	96-18-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/L	1.0	1		02/20/12 21:56	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1		02/20/12 21:56	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1		02/20/12 21:56	108-67-8	
Vinyl chloride	ND	ug/L	0.40	1		02/20/12 21:56	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		02/20/12 21:56	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		02/20/12 21:56	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		02/20/12 21:56	95-47-6	
Surrogates								
Dibromofluoromethane (S)	112	%	75-125	1		02/20/12 21:56	1868-53-7	
1,2-Dichloroethane-d4 (S)	97	%	75-125	1		02/20/12 21:56	17060-07-0	
Toluene-d8 (S)	85	%	75-125	1		02/20/12 21:56	2037-26-5	
4-Bromofluorobenzene (S)	89	%	75-125	1		02/20/12 21:56	460-00-4	

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ANALYTICAL RESULTS

Project: CRC City of Rochester
Pace Project No.: 10183331

Sample: MW-17 **Lab ID: 10183331011** Collected: 02/15/12 18:20 Received: 02/17/12 13:11 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 VOC	Analytical Method: EPA 8260							
Acetone	ND	ug/L	25.0	1		02/20/12 22:10	67-64-1	
Allyl chloride	ND	ug/L	4.0	1		02/20/12 22:10	107-05-1	
Benzene	ND	ug/L	1.0	1		02/20/12 22:10	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		02/20/12 22:10	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		02/20/12 22:10	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		02/20/12 22:10	75-27-4	
Bromoform	ND	ug/L	4.0	1		02/20/12 22:10	75-25-2	
Bromomethane	ND	ug/L	4.0	1		02/20/12 22:10	74-83-9	
2-Butanone (MEK)	ND	ug/L	4.0	1		02/20/12 22:10	78-93-3	
n-Butylbenzene	ND	ug/L	1.0	1		02/20/12 22:10	104-51-8	
sec-Butylbenzene	ND	ug/L	1.0	1		02/20/12 22:10	135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	1		02/20/12 22:10	98-06-6	
Carbon tetrachloride	ND	ug/L	1.0	1		02/20/12 22:10	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		02/20/12 22:10	108-90-7	
Chloroethane	ND	ug/L	1.0	1		02/20/12 22:10	75-00-3	
Chloroform	**1.2**	ug/L	1.0	1		02/20/12 22:10	67-66-3	
Chloromethane	ND	ug/L	4.0	1		02/20/12 22:10	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		02/20/12 22:10	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		02/20/12 22:10	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	4.0	1		02/20/12 22:10	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		02/20/12 22:10	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		02/20/12 22:10	106-93-4	
Dibromomethane	ND	ug/L	4.0	1		02/20/12 22:10	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		02/20/12 22:10	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		02/20/12 22:10	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		02/20/12 22:10	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		02/20/12 22:10	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		02/20/12 22:10	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		02/20/12 22:10	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		02/20/12 22:10	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		02/20/12 22:10	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		02/20/12 22:10	156-60-5	
Dichlorofluoromethane	ND	ug/L	1.0	1		02/20/12 22:10	75-43-4	
1,2-Dichloropropane	ND	ug/L	4.0	1		02/20/12 22:10	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		02/20/12 22:10	142-28-9	
2,2-Dichloropropane	ND	ug/L	4.0	1		02/20/12 22:10	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		02/20/12 22:10	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	4.0	1		02/20/12 22:10	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	4.0	1		02/20/12 22:10	10061-02-6	
Diethyl ether (Ethyl ether)	ND	ug/L	4.0	1		02/20/12 22:10	60-29-7	
Ethylbenzene	ND	ug/L	1.0	1		02/20/12 22:10	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	5.0	1		02/20/12 22:10	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		02/20/12 22:10	98-82-8	
p-Isopropyltoluene	ND	ug/L	1.0	1		02/20/12 22:10	99-87-6	
Methylene Chloride	ND	ug/L	4.0	1		02/20/12 22:10	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	4.0	1		02/20/12 22:10	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		02/20/12 22:10	1634-04-4	

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ANALYTICAL RESULTS

Project: CRC City of Rochester
Pace Project No.: 10183331

Sample: MW-17 **Lab ID: 10183331011** Collected: 02/15/12 18:20 Received: 02/17/12 13:11 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		02/20/12 22:10	91-20-3	
n-Propylbenzene	ND	ug/L	1.0	1		02/20/12 22:10	103-65-1	
Styrene	ND	ug/L	1.0	1		02/20/12 22:10	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		02/20/12 22:10	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		02/20/12 22:10	79-34-5	
Tetrachloroethene	**47.1**	ug/L	1.0	1		02/20/12 22:10	127-18-4	
Tetrahydrofuran	ND	ug/L	10.0	1		02/20/12 22:10	109-99-9	
Toluene	ND	ug/L	1.0	1		02/20/12 22:10	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		02/20/12 22:10	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		02/20/12 22:10	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		02/20/12 22:10	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		02/20/12 22:10	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		02/20/12 22:10	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		02/20/12 22:10	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	4.0	1		02/20/12 22:10	96-18-4	
1,1,2-Trichlorotrifluoroethane	**6.6**	ug/L	1.0	1		02/20/12 22:10	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1		02/20/12 22:10	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1		02/20/12 22:10	108-67-8	
Vinyl chloride	ND	ug/L	0.40	1		02/20/12 22:10	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		02/20/12 22:10	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		02/20/12 22:10	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		02/20/12 22:10	95-47-6	
Surrogates								
Dibromofluoromethane (S)	99	%	75-125	1		02/20/12 22:10	1868-53-7	
1,2-Dichloroethane-d4 (S)	100	%	75-125	1		02/20/12 22:10	17060-07-0	
Toluene-d8 (S)	93	%	75-125	1		02/20/12 22:10	2037-26-5	
4-Bromofluorobenzene (S)	115	%	75-125	1		02/20/12 22:10	460-00-4	

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ANALYTICAL RESULTS

Project: CRC City of Rochester
Pace Project No.: 10183331

Sample: MW-18 **Lab ID: 10183331012** Collected: 02/15/12 17:50 Received: 02/17/12 13:11 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 VOC	Analytical Method: EPA 8260							
Acetone	ND	ug/L	25.0	1		02/20/12 22:23	67-64-1	
Allyl chloride	ND	ug/L	4.0	1		02/20/12 22:23	107-05-1	
Benzene	ND	ug/L	1.0	1		02/20/12 22:23	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		02/20/12 22:23	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		02/20/12 22:23	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		02/20/12 22:23	75-27-4	
Bromoform	ND	ug/L	4.0	1		02/20/12 22:23	75-25-2	
Bromomethane	ND	ug/L	4.0	1		02/20/12 22:23	74-83-9	
2-Butanone (MEK)	ND	ug/L	4.0	1		02/20/12 22:23	78-93-3	
n-Butylbenzene	ND	ug/L	1.0	1		02/20/12 22:23	104-51-8	
sec-Butylbenzene	ND	ug/L	1.0	1		02/20/12 22:23	135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	1		02/20/12 22:23	98-06-6	
Carbon tetrachloride	ND	ug/L	1.0	1		02/20/12 22:23	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		02/20/12 22:23	108-90-7	
Chloroethane	ND	ug/L	1.0	1		02/20/12 22:23	75-00-3	
Chloroform	ND	ug/L	1.0	1		02/20/12 22:23	67-66-3	
Chloromethane	ND	ug/L	4.0	1		02/20/12 22:23	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		02/20/12 22:23	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		02/20/12 22:23	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	4.0	1		02/20/12 22:23	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		02/20/12 22:23	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		02/20/12 22:23	106-93-4	
Dibromomethane	ND	ug/L	4.0	1		02/20/12 22:23	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		02/20/12 22:23	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		02/20/12 22:23	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		02/20/12 22:23	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		02/20/12 22:23	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		02/20/12 22:23	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		02/20/12 22:23	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		02/20/12 22:23	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		02/20/12 22:23	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		02/20/12 22:23	156-60-5	
Dichlorofluoromethane	ND	ug/L	1.0	1		02/20/12 22:23	75-43-4	
1,2-Dichloropropane	ND	ug/L	4.0	1		02/20/12 22:23	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		02/20/12 22:23	142-28-9	
2,2-Dichloropropane	ND	ug/L	4.0	1		02/20/12 22:23	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		02/20/12 22:23	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	4.0	1		02/20/12 22:23	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	4.0	1		02/20/12 22:23	10061-02-6	
Diethyl ether (Ethyl ether)	ND	ug/L	4.0	1		02/20/12 22:23	60-29-7	
Ethylbenzene	ND	ug/L	1.0	1		02/20/12 22:23	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	5.0	1		02/20/12 22:23	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		02/20/12 22:23	98-82-8	
p-Isopropyltoluene	ND	ug/L	1.0	1		02/20/12 22:23	99-87-6	
Methylene Chloride	ND	ug/L	4.0	1		02/20/12 22:23	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	4.0	1		02/20/12 22:23	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		02/20/12 22:23	1634-04-4	

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ANALYTICAL RESULTS

Project: CRC City of Rochester
Pace Project No.: 10183331

Sample: MW-18 **Lab ID: 10183331012** Collected: 02/15/12 17:50 Received: 02/17/12 13:11 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		02/20/12 22:23	91-20-3	
n-Propylbenzene	ND	ug/L	1.0	1		02/20/12 22:23	103-65-1	
Styrene	ND	ug/L	1.0	1		02/20/12 22:23	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		02/20/12 22:23	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		02/20/12 22:23	79-34-5	
Tetrachloroethene	**2.9**	ug/L	1.0	1		02/20/12 22:23	127-18-4	
Tetrahydrofuran	ND	ug/L	10.0	1		02/20/12 22:23	109-99-9	
Toluene	ND	ug/L	1.0	1		02/20/12 22:23	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		02/20/12 22:23	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		02/20/12 22:23	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		02/20/12 22:23	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		02/20/12 22:23	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		02/20/12 22:23	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		02/20/12 22:23	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	4.0	1		02/20/12 22:23	96-18-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/L	1.0	1		02/20/12 22:23	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1		02/20/12 22:23	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1		02/20/12 22:23	108-67-8	
Vinyl chloride	ND	ug/L	0.40	1		02/20/12 22:23	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		02/20/12 22:23	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		02/20/12 22:23	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		02/20/12 22:23	95-47-6	
Surrogates								
Dibromofluoromethane (S)	100	%	75-125	1		02/20/12 22:23	1868-53-7	
1,2-Dichloroethane-d4 (S)	98	%	75-125	1		02/20/12 22:23	17060-07-0	
Toluene-d8 (S)	102	%	75-125	1		02/20/12 22:23	2037-26-5	
4-Bromofluorobenzene (S)	96	%	75-125	1		02/20/12 22:23	460-00-4	

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ANALYTICAL RESULTS

Project: CRC City of Rochester
Pace Project No.: 10183331

Sample: MW-19 **Lab ID: 10183331013** Collected: 02/15/12 15:45 Received: 02/17/12 13:11 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 VOC	Analytical Method: EPA 8260							
Acetone	ND	ug/L	25.0	1		02/20/12 22:36	67-64-1	
Allyl chloride	ND	ug/L	4.0	1		02/20/12 22:36	107-05-1	
Benzene	ND	ug/L	1.0	1		02/20/12 22:36	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		02/20/12 22:36	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		02/20/12 22:36	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		02/20/12 22:36	75-27-4	
Bromoform	ND	ug/L	4.0	1		02/20/12 22:36	75-25-2	
Bromomethane	ND	ug/L	4.0	1		02/20/12 22:36	74-83-9	
2-Butanone (MEK)	ND	ug/L	4.0	1		02/20/12 22:36	78-93-3	
n-Butylbenzene	ND	ug/L	1.0	1		02/20/12 22:36	104-51-8	
sec-Butylbenzene	ND	ug/L	1.0	1		02/20/12 22:36	135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	1		02/20/12 22:36	98-06-6	
Carbon tetrachloride	ND	ug/L	1.0	1		02/20/12 22:36	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		02/20/12 22:36	108-90-7	
Chloroethane	ND	ug/L	1.0	1		02/20/12 22:36	75-00-3	
Chloroform	ND	ug/L	1.0	1		02/20/12 22:36	67-66-3	
Chloromethane	ND	ug/L	4.0	1		02/20/12 22:36	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		02/20/12 22:36	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		02/20/12 22:36	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	4.0	1		02/20/12 22:36	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		02/20/12 22:36	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		02/20/12 22:36	106-93-4	
Dibromomethane	ND	ug/L	4.0	1		02/20/12 22:36	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		02/20/12 22:36	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		02/20/12 22:36	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		02/20/12 22:36	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		02/20/12 22:36	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		02/20/12 22:36	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		02/20/12 22:36	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		02/20/12 22:36	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		02/20/12 22:36	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		02/20/12 22:36	156-60-5	
Dichlorofluoromethane	ND	ug/L	1.0	1		02/20/12 22:36	75-43-4	
1,2-Dichloropropane	ND	ug/L	4.0	1		02/20/12 22:36	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		02/20/12 22:36	142-28-9	
2,2-Dichloropropane	ND	ug/L	4.0	1		02/20/12 22:36	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		02/20/12 22:36	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	4.0	1		02/20/12 22:36	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	4.0	1		02/20/12 22:36	10061-02-6	
Diethyl ether (Ethyl ether)	ND	ug/L	4.0	1		02/20/12 22:36	60-29-7	
Ethylbenzene	ND	ug/L	1.0	1		02/20/12 22:36	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	5.0	1		02/20/12 22:36	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		02/20/12 22:36	98-82-8	
p-Isopropyltoluene	ND	ug/L	1.0	1		02/20/12 22:36	99-87-6	
Methylene Chloride	ND	ug/L	4.0	1		02/20/12 22:36	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	4.0	1		02/20/12 22:36	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		02/20/12 22:36	1634-04-4	

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ANALYTICAL RESULTS

Project: CRC City of Rochester
Pace Project No.: 10183331

Sample: MW-19 **Lab ID: 10183331013** Collected: 02/15/12 15:45 Received: 02/17/12 13:11 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		02/20/12 22:36	91-20-3	
n-Propylbenzene	ND	ug/L	1.0	1		02/20/12 22:36	103-65-1	
Styrene	ND	ug/L	1.0	1		02/20/12 22:36	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		02/20/12 22:36	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		02/20/12 22:36	79-34-5	
Tetrachloroethene	**2.2**	ug/L	1.0	1		02/20/12 22:36	127-18-4	
Tetrahydrofuran	ND	ug/L	10.0	1		02/20/12 22:36	109-99-9	
Toluene	ND	ug/L	1.0	1		02/20/12 22:36	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		02/20/12 22:36	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		02/20/12 22:36	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		02/20/12 22:36	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		02/20/12 22:36	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		02/20/12 22:36	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		02/20/12 22:36	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	4.0	1		02/20/12 22:36	96-18-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/L	1.0	1		02/20/12 22:36	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1		02/20/12 22:36	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1		02/20/12 22:36	108-67-8	
Vinyl chloride	ND	ug/L	0.40	1		02/20/12 22:36	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		02/20/12 22:36	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		02/20/12 22:36	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		02/20/12 22:36	95-47-6	
Surrogates								
Dibromofluoromethane (S)	92	%	75-125	1		02/20/12 22:36	1868-53-7	HS
1,2-Dichloroethane-d4 (S)	99	%	75-125	1		02/20/12 22:36	17060-07-0	
Toluene-d8 (S)	102	%	75-125	1		02/20/12 22:36	2037-26-5	
4-Bromofluorobenzene (S)	81	%	75-125	1		02/20/12 22:36	460-00-4	

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ANALYTICAL RESULTS

Project: CRC City of Rochester
Pace Project No.: 10183331

Sample: MW-20 **Lab ID: 10183331014** Collected: 02/15/12 19:00 Received: 02/17/12 13:11 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 VOC	Analytical Method: EPA 8260							
Acetone	ND	ug/L	25.0	1		02/20/12 22:49	67-64-1	
Allyl chloride	ND	ug/L	4.0	1		02/20/12 22:49	107-05-1	
Benzene	ND	ug/L	1.0	1		02/20/12 22:49	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		02/20/12 22:49	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		02/20/12 22:49	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		02/20/12 22:49	75-27-4	
Bromoform	ND	ug/L	4.0	1		02/20/12 22:49	75-25-2	
Bromomethane	ND	ug/L	4.0	1		02/20/12 22:49	74-83-9	
2-Butanone (MEK)	ND	ug/L	4.0	1		02/20/12 22:49	78-93-3	
n-Butylbenzene	ND	ug/L	1.0	1		02/20/12 22:49	104-51-8	
sec-Butylbenzene	ND	ug/L	1.0	1		02/20/12 22:49	135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	1		02/20/12 22:49	98-06-6	
Carbon tetrachloride	ND	ug/L	1.0	1		02/20/12 22:49	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		02/20/12 22:49	108-90-7	
Chloroethane	ND	ug/L	1.0	1		02/20/12 22:49	75-00-3	
Chloroform	ND	ug/L	1.0	1		02/20/12 22:49	67-66-3	
Chloromethane	ND	ug/L	4.0	1		02/20/12 22:49	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		02/20/12 22:49	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		02/20/12 22:49	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	4.0	1		02/20/12 22:49	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		02/20/12 22:49	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		02/20/12 22:49	106-93-4	
Dibromomethane	ND	ug/L	4.0	1		02/20/12 22:49	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		02/20/12 22:49	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		02/20/12 22:49	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		02/20/12 22:49	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		02/20/12 22:49	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		02/20/12 22:49	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		02/20/12 22:49	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		02/20/12 22:49	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		02/20/12 22:49	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		02/20/12 22:49	156-60-5	
Dichlorofluoromethane	ND	ug/L	1.0	1		02/20/12 22:49	75-43-4	
1,2-Dichloropropane	ND	ug/L	4.0	1		02/20/12 22:49	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		02/20/12 22:49	142-28-9	
2,2-Dichloropropane	ND	ug/L	4.0	1		02/20/12 22:49	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		02/20/12 22:49	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	4.0	1		02/20/12 22:49	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	4.0	1		02/20/12 22:49	10061-02-6	
Diethyl ether (Ethyl ether)	ND	ug/L	4.0	1		02/20/12 22:49	60-29-7	
Ethylbenzene	ND	ug/L	1.0	1		02/20/12 22:49	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	5.0	1		02/20/12 22:49	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		02/20/12 22:49	98-82-8	
p-Isopropyltoluene	ND	ug/L	1.0	1		02/20/12 22:49	99-87-6	
Methylene Chloride	ND	ug/L	4.0	1		02/20/12 22:49	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	4.0	1		02/20/12 22:49	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		02/20/12 22:49	1634-04-4	

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ANALYTICAL RESULTS

Project: CRC City of Rochester
Pace Project No.: 10183331

Sample: MW-20 **Lab ID: 10183331014** Collected: 02/15/12 19:00 Received: 02/17/12 13:11 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		02/20/12 22:49	91-20-3	
n-Propylbenzene	ND	ug/L	1.0	1		02/20/12 22:49	103-65-1	
Styrene	ND	ug/L	1.0	1		02/20/12 22:49	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		02/20/12 22:49	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		02/20/12 22:49	79-34-5	
Tetrachloroethene	**41.8**	ug/L	1.0	1		02/20/12 22:49	127-18-4	
Tetrahydrofuran	ND	ug/L	10.0	1		02/20/12 22:49	109-99-9	
Toluene	ND	ug/L	1.0	1		02/20/12 22:49	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		02/20/12 22:49	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		02/20/12 22:49	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		02/20/12 22:49	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		02/20/12 22:49	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		02/20/12 22:49	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		02/20/12 22:49	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	4.0	1		02/20/12 22:49	96-18-4	
1,1,2-Trichlorotrifluoroethane	**2.1**	ug/L	1.0	1		02/20/12 22:49	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1		02/20/12 22:49	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1		02/20/12 22:49	108-67-8	
Vinyl chloride	ND	ug/L	0.40	1		02/20/12 22:49	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		02/20/12 22:49	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		02/20/12 22:49	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		02/20/12 22:49	95-47-6	
Surrogates								
Dibromofluoromethane (S)	99	%	75-125	1		02/20/12 22:49	1868-53-7	
1,2-Dichloroethane-d4 (S)	99	%	75-125	1		02/20/12 22:49	17060-07-0	
Toluene-d8 (S)	110	%	75-125	1		02/20/12 22:49	2037-26-5	
4-Bromofluorobenzene (S)	88	%	75-125	1		02/20/12 22:49	460-00-4	

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ANALYTICAL RESULTS

Project: CRC City of Rochester
Pace Project No.: 10183331

Sample: Trip Blank **Lab ID: 10183331015** Collected: 02/15/12 00:00 Received: 02/17/12 13:11 Matrix: Water

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

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ANALYTICAL RESULTS

Project: CRC City of Rochester
Pace Project No.: 10183331

Sample: Trip Blank **Lab ID: 10183331015** Collected: 02/15/12 00:00 Received: 02/17/12 13:11 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		02/20/12 20:12	91-20-3	
n-Propylbenzene	ND	ug/L	1.0	1		02/20/12 20:12	103-65-1	
Styrene	ND	ug/L	1.0	1		02/20/12 20:12	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		02/20/12 20:12	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		02/20/12 20:12	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		02/20/12 20:12	127-18-4	
Tetrahydrofuran	ND	ug/L	10.0	1		02/20/12 20:12	109-99-9	
Toluene	ND	ug/L	1.0	1		02/20/12 20:12	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		02/20/12 20:12	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		02/20/12 20:12	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		02/20/12 20:12	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		02/20/12 20:12	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		02/20/12 20:12	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		02/20/12 20:12	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	4.0	1		02/20/12 20:12	96-18-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/L	1.0	1		02/20/12 20:12	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1		02/20/12 20:12	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1		02/20/12 20:12	108-67-8	
Vinyl chloride	ND	ug/L	0.40	1		02/20/12 20:12	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		02/20/12 20:12	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		02/20/12 20:12	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		02/20/12 20:12	95-47-6	
Surrogates								
Dibromofluoromethane (S)	99	%	75-125	1		02/20/12 20:12	1868-53-7	
1,2-Dichloroethane-d4 (S)	98	%	75-125	1		02/20/12 20:12	17060-07-0	
Toluene-d8 (S)	107	%	75-125	1		02/20/12 20:12	2037-26-5	
4-Bromofluorobenzene (S)	93	%	75-125	1		02/20/12 20:12	460-00-4	

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QUALITY CONTROL DATA

Project: CRC City of Rochester
Pace Project No.: 10183331

QC Batch: MSV/19293 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV 465 W
Associated Lab Samples: 10183331001, 10183331004, 10183331005, 10183331006, 10183331007, 10183331008, 10183331009, 10183331010, 10183331011, 10183331012, 10183331013, 10183331014, 10183331015

METHOD BLANK: 1142731 Matrix: Water
Associated Lab Samples: 10183331001, 10183331004, 10183331005, 10183331006, 10183331007, 10183331008, 10183331009, 10183331010, 10183331011, 10183331012, 10183331013, 10183331014, 10183331015

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	1.0	02/20/12 19:59	
1,1,1-Trichloroethane	ug/L	ND	1.0	02/20/12 19:59	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	02/20/12 19:59	
1,1,2-Trichloroethane	ug/L	ND	1.0	02/20/12 19:59	
1,1,2-Trichlorotrifluoroethane	ug/L	ND	1.0	02/20/12 19:59	
1,1-Dichloroethane	ug/L	ND	1.0	02/20/12 19:59	
1,1-Dichloroethene	ug/L	ND	1.0	02/20/12 19:59	
1,1-Dichloropropene	ug/L	ND	1.0	02/20/12 19:59	
1,2,3-Trichlorobenzene	ug/L	ND	1.0	02/20/12 19:59	
1,2,3-Trichloropropane	ug/L	ND	4.0	02/20/12 19:59	
1,2,4-Trichlorobenzene	ug/L	ND	1.0	02/20/12 19:59	
1,2,4-Trimethylbenzene	ug/L	ND	1.0	02/20/12 19:59	
1,2-Dibromo-3-chloropropane	ug/L	ND	4.0	02/20/12 19:59	
1,2-Dibromoethane (EDB)	ug/L	ND	1.0	02/20/12 19:59	
1,2-Dichlorobenzene	ug/L	ND	1.0	02/20/12 19:59	
1,2-Dichloroethane	ug/L	ND	1.0	02/20/12 19:59	
1,2-Dichloropropane	ug/L	ND	4.0	02/20/12 19:59	
1,3,5-Trimethylbenzene	ug/L	ND	1.0	02/20/12 19:59	
1,3-Dichlorobenzene	ug/L	ND	1.0	02/20/12 19:59	
1,3-Dichloropropane	ug/L	ND	1.0	02/20/12 19:59	
1,4-Dichlorobenzene	ug/L	ND	1.0	02/20/12 19:59	
2,2-Dichloropropane	ug/L	ND	4.0	02/20/12 19:59	
2-Butanone (MEK)	ug/L	ND	4.0	02/20/12 19:59	
2-Chlorotoluene	ug/L	ND	1.0	02/20/12 19:59	
4-Chlorotoluene	ug/L	ND	1.0	02/20/12 19:59	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	4.0	02/20/12 19:59	
Acetone	ug/L	ND	25.0	02/20/12 19:59	
Allyl chloride	ug/L	ND	4.0	02/20/12 19:59	
Benzene	ug/L	ND	1.0	02/20/12 19:59	
Bromobenzene	ug/L	ND	1.0	02/20/12 19:59	
Bromochloromethane	ug/L	ND	1.0	02/20/12 19:59	
Bromodichloromethane	ug/L	ND	1.0	02/20/12 19:59	
Bromoform	ug/L	ND	4.0	02/20/12 19:59	
Bromomethane	ug/L	ND	4.0	02/20/12 19:59	
Carbon tetrachloride	ug/L	ND	1.0	02/20/12 19:59	
Chlorobenzene	ug/L	ND	1.0	02/20/12 19:59	
Chloroethane	ug/L	ND	1.0	02/20/12 19:59	
Chloroform	ug/L	ND	1.0	02/20/12 19:59	
Chloromethane	ug/L	ND	4.0	02/20/12 19:59	
cis-1,2-Dichloroethene	ug/L	ND	1.0	02/20/12 19:59	
cis-1,3-Dichloropropene	ug/L	ND	4.0	02/20/12 19:59	

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QUALITY CONTROL DATA

Project: CRC City of Rochester
Pace Project No.: 10183331

METHOD BLANK: 1142731 Matrix: Water

Associated Lab Samples: 10183331001, 10183331004, 10183331005, 10183331006, 10183331007, 10183331008, 10183331009, 10183331010, 10183331011, 10183331012, 10183331013, 10183331014, 10183331015

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Dibromochloromethane	ug/L	ND	1.0	02/20/12 19:59	
Dibromomethane	ug/L	ND	4.0	02/20/12 19:59	
Dichlorodifluoromethane	ug/L	ND	1.0	02/20/12 19:59	
Dichlorofluoromethane	ug/L	ND	1.0	02/20/12 19:59	
Diethyl ether (Ethyl ether)	ug/L	ND	4.0	02/20/12 19:59	
Ethylbenzene	ug/L	ND	1.0	02/20/12 19:59	
Hexachloro-1,3-butadiene	ug/L	ND	5.0	02/20/12 19:59	
Isopropylbenzene (Cumene)	ug/L	ND	1.0	02/20/12 19:59	
m&p-Xylene	ug/L	ND	2.0	02/20/12 19:59	
Methyl-tert-butyl ether	ug/L	ND	1.0	02/20/12 19:59	
Methylene Chloride	ug/L	ND	4.0	02/20/12 19:59	
n-Butylbenzene	ug/L	ND	1.0	02/20/12 19:59	
n-Propylbenzene	ug/L	ND	1.0	02/20/12 19:59	
Naphthalene	ug/L	ND	4.0	02/20/12 19:59	
o-Xylene	ug/L	ND	1.0	02/20/12 19:59	
p-Isopropyltoluene	ug/L	ND	1.0	02/20/12 19:59	
sec-Butylbenzene	ug/L	ND	1.0	02/20/12 19:59	
Styrene	ug/L	ND	1.0	02/20/12 19:59	
tert-Butylbenzene	ug/L	ND	1.0	02/20/12 19:59	
Tetrachloroethene	ug/L	ND	1.0	02/20/12 19:59	
Tetrahydrofuran	ug/L	ND	10.0	02/20/12 19:59	
Toluene	ug/L	ND	1.0	02/20/12 19:59	
trans-1,2-Dichloroethene	ug/L	ND	1.0	02/20/12 19:59	
trans-1,3-Dichloropropene	ug/L	ND	4.0	02/20/12 19:59	
Trichloroethene	ug/L	ND	1.0	02/20/12 19:59	
Trichlorofluoromethane	ug/L	ND	1.0	02/20/12 19:59	
Vinyl chloride	ug/L	ND	0.40	02/20/12 19:59	
Xylene (Total)	ug/L	ND	3.0	02/20/12 19:59	
1,2-Dichloroethane-d4 (S)	%	98	75-125	02/20/12 19:59	
4-Bromofluorobenzene (S)	%	97	75-125	02/20/12 19:59	
Dibromofluoromethane (S)	%	101	75-125	02/20/12 19:59	
Toluene-d8 (S)	%	109	75-125	02/20/12 19:59	

LABORATORY CONTROL SAMPLE: 1142732

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	52.6	105	75-125	
1,1,1-Trichloroethane	ug/L	50	53.3	107	73-128	
1,1,2,2-Tetrachloroethane	ug/L	50	39.1	78	75-125	
1,1,2-Trichloroethane	ug/L	50	57.3	115	75-125	
1,1,2-Trichlorotrifluoroethane	ug/L	50	45.3	91	63-125	
1,1-Dichloroethane	ug/L	50	51.9	104	72-126	
1,1-Dichloroethene	ug/L	50	49.8	100	73-129	
1,1-Dichloropropene	ug/L	50	49.8	100	72-128	

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QUALITY CONTROL DATA

Project: CRC City of Rochester
Pace Project No.: 10183331

LABORATORY CONTROL SAMPLE: 1142732

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,3-Trichlorobenzene	ug/L	50	41.6	83	73-125	
1,2,3-Trichloropropane	ug/L	50	41.0	82	75-125	
1,2,4-Trichlorobenzene	ug/L	50	43.2	86	74-125	
1,2,4-Trimethylbenzene	ug/L	50	43.2	86	75-126	
1,2-Dibromo-3-chloropropane	ug/L	50	44.4	89	75-125	
1,2-Dibromoethane (EDB)	ug/L	50	57.8	116	75-125	
1,2-Dichlorobenzene	ug/L	50	40.6	81	75-125	
1,2-Dichloroethane	ug/L	50	55.3	111	75-132	
1,2-Dichloropropane	ug/L	50	49.2	98	75-125	
1,3,5-Trimethylbenzene	ug/L	50	39.7	79	75-126	
1,3-Dichlorobenzene	ug/L	50	46.6	93	75-125	
1,3-Dichloropropane	ug/L	50	58.2	116	75-125	
1,4-Dichlorobenzene	ug/L	50	46.2	92	75-125	
2,2-Dichloropropane	ug/L	50	51.4	103	72-133	
2-Butanone (MEK)	ug/L	50	48.6	97	52-138	
2-Chlorotoluene	ug/L	50	39.2	78	74-125	
4-Chlorotoluene	ug/L	50	38.8	78	75-125	
4-Methyl-2-pentanone (MIBK)	ug/L	50	57.3	115	75-125	
Acetone	ug/L	125	129	103	30-150	
Allyl chloride	ug/L	50	50.5	101	75-132	
Benzene	ug/L	50	49.4	99	75-132	
Bromobenzene	ug/L	50	40.1	80	75-125	
Bromochloromethane	ug/L	50	51.6	103	75-126	
Bromodichloromethane	ug/L	50	52.7	105	75-125	
Bromoform	ug/L	50	54.8	110	75-125	
Bromomethane	ug/L	50	45.4	91	52-150	
Carbon tetrachloride	ug/L	50	54.3	109	73-132	
Chlorobenzene	ug/L	50	48.4	97	75-125	
Chloroethane	ug/L	50	50.7	101	75-143	
Chloroform	ug/L	50	50.8	102	75-128	
Chloromethane	ug/L	50	45.8	92	56-136	
cis-1,2-Dichloroethene	ug/L	50	51.7	103	75-125	
cis-1,3-Dichloropropene	ug/L	50	59.9	120	75-125	
Dibromochloromethane	ug/L	50	60.2	120	75-125	
Dibromomethane	ug/L	50	50.7	101	75-125	
Dichlorodifluoromethane	ug/L	50	50.5	101	50-137	
Dichlorofluoromethane	ug/L	50	47.9	96	68-133	
Diethyl ether (Ethyl ether)	ug/L	50	55.1	110	75-125	
Ethylbenzene	ug/L	50	46.7	93	75-125	
Hexachloro-1,3-butadiene	ug/L	25	21.5	86	57-132	
Isopropylbenzene (Cumene)	ug/L	50	48.5	97	75-125	
m&p-Xylene	ug/L	100	92.7	93	75-125	
Methyl-tert-butyl ether	ug/L	50	50.7	101	74-130	
Methylene Chloride	ug/L	50	48.4	97	62-127	
n-Butylbenzene	ug/L	50	42.0	84	68-128	
n-Propylbenzene	ug/L	50	38.7	77	74-125	
Naphthalene	ug/L	50	42.7	85	75-125	
o-Xylene	ug/L	50	46.9	94	75-125	

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QUALITY CONTROL DATA

Project: CRC City of Rochester
Pace Project No.: 10183331

LABORATORY CONTROL SAMPLE: 1142732

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
p-Isopropyltoluene	ug/L	50	47.1	94	75-125	
sec-Butylbenzene	ug/L	50	47.6	95	71-125	
Styrene	ug/L	50	49.6	99	75-125	
tert-Butylbenzene	ug/L	50	38.8	78	73-125	
Tetrachloroethene	ug/L	50	55.7	111	75-125	
Tetrahydrofuran	ug/L	500	483	97	75-128	
Toluene	ug/L	50	55.7	111	75-125	
trans-1,2-Dichloroethene	ug/L	50	50.8	102	75-125	
trans-1,3-Dichloropropene	ug/L	50	59.5	119	75-125	
Trichloroethene	ug/L	50	51.6	103	75-125	
Trichlorofluoromethane	ug/L	50	50.1	100	64-139	
Vinyl chloride	ug/L	50	53.3	107	75-150	
Xylene (Total)	ug/L	150	140	93	75-125	
1,2-Dichloroethane-d4 (S)	%			95	75-125	
4-Bromofluorobenzene (S)	%			85	75-125	
Dibromofluoromethane (S)	%			98	75-125	
Toluene-d8 (S)	%			111	75-125	

MATRIX SPIKE SAMPLE: 1142889

Parameter	Units	10183331001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	50	51.9	104	75-125	
1,1,1-Trichloroethane	ug/L	ND	50	51.4	103	75-145	
1,1,2,2-Tetrachloroethane	ug/L	ND	50	39.3	79	75-125	
1,1,2-Trichloroethane	ug/L	ND	50	50.4	101	75-125	
1,1,2-Trichlorotrifluoroethane	ug/L	ND	50	60.9	120	75-150	
1,1-Dichloroethane	ug/L	ND	50	46.9	94	75-139	
1,1-Dichloroethene	ug/L	ND	50	49.4	99	75-148	
1,1-Dichloropropene	ug/L	ND	50	53.5	107	75-148	
1,2,3-Trichlorobenzene	ug/L	ND	50	41.5	83	75-127	
1,2,3-Trichloropropane	ug/L	ND	50	42.3	85	75-125	
1,2,4-Trichlorobenzene	ug/L	ND	50	43.5	87	75-126	
1,2,4-Trimethylbenzene	ug/L	ND	50	47.3	95	75-135	
1,2-Dibromo-3-chloropropane	ug/L	ND	50	54.2	108	75-125	
1,2-Dibromoethane (EDB)	ug/L	ND	50	48.0	96	75-125	
1,2-Dichlorobenzene	ug/L	ND	50	50.7	101	75-125	
1,2-Dichloroethane	ug/L	ND	50	46.2	92	75-139	
1,2-Dichloropropane	ug/L	ND	50	61.9	124	75-131	
1,3,5-Trimethylbenzene	ug/L	ND	50	41.2	82	75-134	
1,3-Dichlorobenzene	ug/L	ND	50	45.3	91	75-125	
1,3-Dichloropropane	ug/L	ND	50	46.9	94	75-127	
1,4-Dichlorobenzene	ug/L	ND	50	48.7	97	75-125	
2,2-Dichloropropane	ug/L	ND	50	50.2	100	75-150	
2-Butanone (MEK)	ug/L	ND	50	46.5	93	50-138	
2-Chlorotoluene	ug/L	ND	50	40.5	81	75-134	
4-Chlorotoluene	ug/L	ND	50	47.7	95	75-130	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	50	53.5	107	75-125	

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QUALITY CONTROL DATA

Project: CRC City of Rochester
Pace Project No.: 10183331

MATRIX SPIKE SAMPLE: 1142889

Parameter	Units	10183331001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Acetone	ug/L	ND	125	126	101	30-142	
Allyl chloride	ug/L	ND	50	48.8	98	75-146	
Benzene	ug/L	ND	50	54.3	109	75-146	
Bromobenzene	ug/L	ND	50	41.8	84	75-125	
Bromochloromethane	ug/L	ND	50	50.3	101	75-129	
Bromodichloromethane	ug/L	ND	50	62.2	124	75-130	
Bromoform	ug/L	ND	50	54.3	109	75-125	
Bromomethane	ug/L	ND	50	52.1	104	52-150	
Carbon tetrachloride	ug/L	ND	50	54.3	109	75-150	
Chlorobenzene	ug/L	ND	50	47.5	95	75-127	
Chloroethane	ug/L	ND	50	47.7	95	75-146	
Chloroform	ug/L	ND	50	47.6	95	75-137	
Chloromethane	ug/L	ND	50	49.3	99	64-150	
cis-1,2-Dichloroethene	ug/L	ND	50	48.1	96	75-139	
cis-1,3-Dichloropropene	ug/L	ND	50	62.2	124	75-129	
Dibromochloromethane	ug/L	ND	50	51.0	102	75-125	
Dibromomethane	ug/L	ND	50	60.8	122	75-126	
Dichlorodifluoromethane	ug/L	ND	50	72.6	145	75-150	
Dichlorofluoromethane	ug/L	ND	50	45.1	90	75-143	
Diethyl ether (Ethyl ether)	ug/L	ND	50	48.7	97	71-133	
Ethylbenzene	ug/L	ND	50	47.1	94	75-132	
Hexachloro-1,3-butadiene	ug/L	ND	25	22.5	90	62-147	
Isopropylbenzene (Cumene)	ug/L	ND	50	49.5	99	75-135	
m&p-Xylene	ug/L	ND	100	94.0	94	75-131	
Methyl-tert-butyl ether	ug/L	ND	50	46.0	92	71-137	
Methylene Chloride	ug/L	ND	50	44.7	89	57-134	
n-Butylbenzene	ug/L	ND	50	54.3	109	74-139	
n-Propylbenzene	ug/L	ND	50	41.3	83	75-137	
Naphthalene	ug/L	ND	50	42.6	85	75-129	
o-Xylene	ug/L	ND	50	47.7	95	75-128	
p-Isopropyltoluene	ug/L	ND	50	47.7	95	75-135	
sec-Butylbenzene	ug/L	ND	50	49.4	99	75-137	
Styrene	ug/L	ND	50	49.3	99	75-126	
tert-Butylbenzene	ug/L	ND	50	47.4	95	75-133	
Tetrachloroethene	ug/L	26.4	50	71.0	89	75-138	
Tetrahydrofuran	ug/L	ND	500	421	84	74-128	
Toluene	ug/L	ND	50	56.4	113	75-131	
trans-1,2-Dichloroethene	ug/L	ND	50	48.1	96	75-140	
trans-1,3-Dichloropropene	ug/L	ND	50	59.4	119	75-129	
Trichloroethene	ug/L	ND	50	53.7	107	75-132	
Trichlorofluoromethane	ug/L	ND	50	54.7	109	75-150	
Vinyl chloride	ug/L	ND	50	60.8	122	75-150	
Xylene (Total)	ug/L	ND	150	142	94	75-129	
1,2-Dichloroethane-d4 (S)	%				94	75-125	
4-Bromofluorobenzene (S)	%				90	75-125	
Dibromofluoromethane (S)	%				90	75-125	
Toluene-d8 (S)	%				111	75-125	

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QUALITY CONTROL DATA

Project: CRC City of Rochester
Pace Project No.: 10183331

SAMPLE DUPLICATE: 1142890

Parameter	Units	10183331005 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	2.2	1.7	29	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	.37J		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	

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QUALITY CONTROL DATA

Project: CRC City of Rochester
Pace Project No.: 10183331

SAMPLE DUPLICATE: 1142890

Parameter	Units	10183331005 Result	Dup Result	RPD	Max RPD	Qualifiers
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	69.5	64.7	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)	%	95	96	.9		
4-Bromofluorobenzene (S)	%	103	97	6		
Dibromofluoromethane (S)	%	91	100	10		
Toluene-d8 (S)	%	81	94	15		

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QUALITY CONTROL DATA

Project: CRC City of Rochester
Pace Project No.: 10183331

QC Batch: MSV/19299 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV 465 W
Associated Lab Samples: 10183331003

METHOD BLANK: 1143330 Matrix: Water
Associated Lab Samples: 10183331003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	1.0	02/23/12 11:00	
1,1,1-Trichloroethane	ug/L	ND	1.0	02/23/12 11:00	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	02/23/12 11:00	
1,1,2-Trichloroethane	ug/L	ND	1.0	02/23/12 11:00	
1,1,2-Trichlorotrifluoroethane	ug/L	ND	1.0	02/23/12 11:00	
1,1-Dichloroethane	ug/L	ND	1.0	02/23/12 11:00	
1,1-Dichloroethene	ug/L	ND	1.0	02/23/12 11:00	
1,1-Dichloropropene	ug/L	ND	1.0	02/23/12 11:00	
1,2,3-Trichlorobenzene	ug/L	ND	1.0	02/23/12 11:00	
1,2,3-Trichloropropane	ug/L	ND	4.0	02/23/12 11:00	
1,2,4-Trichlorobenzene	ug/L	ND	1.0	02/23/12 11:00	
1,2,4-Trimethylbenzene	ug/L	ND	1.0	02/23/12 11:00	
1,2-Dibromo-3-chloropropane	ug/L	ND	4.0	02/23/12 11:00	
1,2-Dibromoethane (EDB)	ug/L	ND	1.0	02/23/12 11:00	
1,2-Dichlorobenzene	ug/L	ND	1.0	02/23/12 11:00	
1,2-Dichloroethane	ug/L	ND	1.0	02/23/12 11:00	
1,2-Dichloropropane	ug/L	ND	4.0	02/23/12 11:00	
1,3,5-Trimethylbenzene	ug/L	ND	1.0	02/23/12 11:00	
1,3-Dichlorobenzene	ug/L	ND	1.0	02/23/12 11:00	
1,3-Dichloropropane	ug/L	ND	1.0	02/23/12 11:00	
1,4-Dichlorobenzene	ug/L	ND	1.0	02/23/12 11:00	
2,2-Dichloropropane	ug/L	ND	4.0	02/23/12 11:00	
2-Butanone (MEK)	ug/L	ND	4.0	02/23/12 11:00	
2-Chlorotoluene	ug/L	ND	1.0	02/23/12 11:00	
4-Chlorotoluene	ug/L	ND	1.0	02/23/12 11:00	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	4.0	02/23/12 11:00	
Acetone	ug/L	ND	25.0	02/23/12 11:00	
Allyl chloride	ug/L	ND	4.0	02/23/12 11:00	
Benzene	ug/L	ND	1.0	02/23/12 11:00	
Bromobenzene	ug/L	ND	1.0	02/23/12 11:00	
Bromochloromethane	ug/L	ND	1.0	02/23/12 11:00	
Bromodichloromethane	ug/L	ND	1.0	02/23/12 11:00	
Bromoform	ug/L	ND	4.0	02/23/12 11:00	
Bromomethane	ug/L	ND	4.0	02/23/12 11:00	
Carbon tetrachloride	ug/L	ND	1.0	02/23/12 11:00	
Chlorobenzene	ug/L	ND	1.0	02/23/12 11:00	
Chloroethane	ug/L	ND	1.0	02/23/12 11:00	
Chloroform	ug/L	ND	1.0	02/23/12 11:00	
Chloromethane	ug/L	ND	4.0	02/23/12 11:00	
cis-1,2-Dichloroethene	ug/L	ND	1.0	02/23/12 11:00	
cis-1,3-Dichloropropene	ug/L	ND	4.0	02/23/12 11:00	
Dibromochloromethane	ug/L	ND	1.0	02/23/12 11:00	
Dibromomethane	ug/L	ND	4.0	02/23/12 11:00	

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QUALITY CONTROL DATA

Project: CRC City of Rochester
Pace Project No.: 10183331

METHOD BLANK: 1143330 Matrix: Water

Associated Lab Samples: 10183331003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Dichlorodifluoromethane	ug/L	ND	1.0	02/23/12 11:00	
Dichlorofluoromethane	ug/L	ND	1.0	02/23/12 11:00	
Diethyl ether (Ethyl ether)	ug/L	ND	4.0	02/23/12 11:00	
Ethylbenzene	ug/L	ND	1.0	02/23/12 11:00	
Hexachloro-1,3-butadiene	ug/L	ND	5.0	02/23/12 11:00	
Isopropylbenzene (Cumene)	ug/L	ND	1.0	02/23/12 11:00	
m&p-Xylene	ug/L	ND	2.0	02/23/12 11:00	
Methyl-tert-butyl ether	ug/L	ND	1.0	02/23/12 11:00	
Methylene Chloride	ug/L	ND	4.0	02/23/12 11:00	
n-Butylbenzene	ug/L	ND	1.0	02/23/12 11:00	
n-Propylbenzene	ug/L	ND	1.0	02/23/12 11:00	
Naphthalene	ug/L	ND	4.0	02/23/12 11:00	
o-Xylene	ug/L	ND	1.0	02/23/12 11:00	
p-Isopropyltoluene	ug/L	ND	1.0	02/23/12 11:00	
sec-Butylbenzene	ug/L	ND	1.0	02/23/12 11:00	
Styrene	ug/L	ND	1.0	02/23/12 11:00	
tert-Butylbenzene	ug/L	ND	1.0	02/23/12 11:00	
Tetrachloroethene	ug/L	ND	1.0	02/23/12 11:00	
Tetrahydrofuran	ug/L	ND	10.0	02/23/12 11:00	
Toluene	ug/L	ND	1.0	02/23/12 11:00	
trans-1,2-Dichloroethene	ug/L	ND	1.0	02/23/12 11:00	
trans-1,3-Dichloropropene	ug/L	ND	4.0	02/23/12 11:00	
Trichloroethene	ug/L	ND	1.0	02/23/12 11:00	
Trichlorofluoromethane	ug/L	ND	1.0	02/23/12 11:00	
Vinyl chloride	ug/L	ND	0.40	02/23/12 11:00	
Xylene (Total)	ug/L	ND	3.0	02/23/12 11:00	
1,2-Dichloroethane-d4 (S)	%	97	75-125	02/23/12 11:00	
4-Bromofluorobenzene (S)	%	99	75-125	02/23/12 11:00	
Dibromofluoromethane (S)	%	101	75-125	02/23/12 11:00	
Toluene-d8 (S)	%	100	75-125	02/23/12 11:00	

LABORATORY CONTROL SAMPLE: 1143331

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	48.1	96	75-125	
1,1,1-Trichloroethane	ug/L	50	51.9	104	73-128	
1,1,2,2-Tetrachloroethane	ug/L	50	53.5	107	75-125	
1,1,2-Trichloroethane	ug/L	50	53.2	106	75-125	
1,1,2-Trichlorotrifluoroethane	ug/L	50	41.0	82	63-125	
1,1-Dichloroethane	ug/L	50	51.5	103	72-126	
1,1-Dichloroethene	ug/L	50	51.9	104	73-129	
1,1-Dichloropropene	ug/L	50	53.1	106	72-128	
1,2,3-Trichlorobenzene	ug/L	50	50.9	102	73-125	
1,2,3-Trichloropropane	ug/L	50	50.6	101	75-125	
1,2,4-Trichlorobenzene	ug/L	50	51.0	102	74-125	

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QUALITY CONTROL DATA

Project: CRC City of Rochester
Pace Project No.: 10183331

LABORATORY CONTROL SAMPLE: 1143331

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,4-Trimethylbenzene	ug/L	50	50.2	100	75-126	
1,2-Dibromo-3-chloropropane	ug/L	50	48.4	97	75-125	
1,2-Dibromoethane (EDB)	ug/L	50	51.1	102	75-125	
1,2-Dichlorobenzene	ug/L	50	49.1	98	75-125	
1,2-Dichloroethane	ug/L	50	50.4	101	75-132	
1,2-Dichloropropane	ug/L	50	52.3	105	75-125	
1,3,5-Trimethylbenzene	ug/L	50	50.8	102	75-126	
1,3-Dichlorobenzene	ug/L	50	51.0	102	75-125	
1,3-Dichloropropane	ug/L	50	51.1	102	75-125	
1,4-Dichlorobenzene	ug/L	50	48.5	97	75-125	
2,2-Dichloropropane	ug/L	50	52.3	105	72-133	
2-Butanone (MEK)	ug/L	50	50.3	101	52-138	
2-Chlorotoluene	ug/L	50	50.0	100	74-125	
4-Chlorotoluene	ug/L	50	50.0	100	75-125	
4-Methyl-2-pentanone (MIBK)	ug/L	50	51.7	103	75-125	
Acetone	ug/L	125	138	110	30-150	
Allyl chloride	ug/L	50	57.2	114	75-132	
Benzene	ug/L	50	52.7	105	75-132	
Bromobenzene	ug/L	50	50.3	101	75-125	
Bromochloromethane	ug/L	50	52.2	104	75-126	
Bromodichloromethane	ug/L	50	50.7	101	75-125	
Bromoform	ug/L	50	51.6	103	75-125	
Bromomethane	ug/L	50	53.9	108	52-150	
Carbon tetrachloride	ug/L	50	49.6	99	73-132	
Chlorobenzene	ug/L	50	50.5	101	75-125	
Chloroethane	ug/L	50	48.2	96	75-143	
Chloroform	ug/L	50	52.2	104	75-128	
Chloromethane	ug/L	50	51.6	103	56-136	
cis-1,2-Dichloroethene	ug/L	50	52.8	106	75-125	
cis-1,3-Dichloropropene	ug/L	50	51.9	104	75-125	
Dibromochloromethane	ug/L	50	49.0	98	75-125	
Dibromomethane	ug/L	50	52.2	104	75-125	
Dichlorodifluoromethane	ug/L	50	37.9	76	50-137	
Dichlorofluoromethane	ug/L	50	48.8	98	68-133	
Diethyl ether (Ethyl ether)	ug/L	50	51.1	102	75-125	
Ethylbenzene	ug/L	50	49.3	99	75-125	
Hexachloro-1,3-butadiene	ug/L	25	25.2	101	57-132	
Isopropylbenzene (Cumene)	ug/L	50	49.0	98	75-125	
m&p-Xylene	ug/L	100	103	103	75-125	
Methyl-tert-butyl ether	ug/L	50	52.1	104	74-130	
Methylene Chloride	ug/L	50	51.1	102	62-127	
n-Butylbenzene	ug/L	50	51.8	104	68-128	
n-Propylbenzene	ug/L	50	50.7	101	74-125	
Naphthalene	ug/L	50	50.6	101	75-125	
o-Xylene	ug/L	50	49.8	100	75-125	
p-Isopropyltoluene	ug/L	50	51.0	102	75-125	
sec-Butylbenzene	ug/L	50	51.2	102	71-125	
Styrene	ug/L	50	52.1	104	75-125	

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QUALITY CONTROL DATA

Project: CRC City of Rochester
Pace Project No.: 10183331

LABORATORY CONTROL SAMPLE: 1143331

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
tert-Butylbenzene	ug/L	50	49.6	99	73-125	
Tetrachloroethene	ug/L	50	49.9	100	75-125	
Tetrahydrofuran	ug/L	500	540	108	75-128	
Toluene	ug/L	50	50.3	101	75-125	
trans-1,2-Dichloroethene	ug/L	50	51.7	103	75-125	
trans-1,3-Dichloropropene	ug/L	50	52.1	104	75-125	
Trichloroethene	ug/L	50	51.4	103	75-125	
Trichlorofluoromethane	ug/L	50	42.8	86	64-139	
Vinyl chloride	ug/L	50	51.6	103	75-150	
Xylene (Total)	ug/L	150	153	102	75-125	
1,2-Dichloroethane-d4 (S)	%			93	75-125	
4-Bromofluorobenzene (S)	%			101	75-125	
Dibromofluoromethane (S)	%			98	75-125	
Toluene-d8 (S)	%			101	75-125	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1143348 1143349

Parameter	Units	10183364002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1,1,2-Tetrachloroethane	ug/L	ND	2500	2500	2280	2440	91	98	75-125	7	30	
1,1,1-Trichloroethane	ug/L	ND	2500	2500	2410	2630	96	105	75-145	9	30	
1,1,2,2-Tetrachloroethane	ug/L	ND	2500	2500	2670	2730	107	109	75-125	2	30	
1,1,2-Trichloroethane	ug/L	ND	2500	2500	2710	2700	108	108	75-125	.4	30	
1,1,2-Trichlorotrifluoroethane	ug/L	ND	2500	2500	2240	2430	90	97	75-150	8	30	
1,1-Dichloroethane	ug/L	ND	2500	2500	2540	2660	101	106	75-139	5	30	
1,1-Dichloroethene	ug/L	ND	2500	2500	2530	2520	101	101	75-148	.5	30	
1,1-Dichloropropene	ug/L	ND	2500	2500	2580	2740	103	109	75-148	6	30	
1,2,3-Trichlorobenzene	ug/L	ND	2500	2500	2470	2560	99	102	75-127	4	30	
1,2,3-Trichloropropane	ug/L	ND	2500	2500	2570	2540	103	102	75-125	1	30	
1,2,4-Trichlorobenzene	ug/L	ND	2500	2500	2570	2590	103	103	75-126	.6	30	
1,2,4-Trimethylbenzene	ug/L	925	2500	2500	3410	3440	99	101	75-135	1	30	
1,2-Dibromo-3-chloropropane	ug/L	ND	2500	2500	2370	2530	95	101	75-125	7	30	
1,2-Dibromoethane (EDB)	ug/L	94.6	2500	2500	2660	2710	103	105	75-125	2	30	
1,2-Dichlorobenzene	ug/L	ND	2500	2500	2480	2550	99	102	75-125	3	30	
1,2-Dichloroethane	ug/L	222	2500	2500	2710	2800	100	103	75-139	3	30	
1,2-Dichloropropane	ug/L	ND	2500	2500	2540	2740	102	109	75-131	7	30	
1,3,5-Trimethylbenzene	ug/L	214	2500	2500	2680	2740	99	101	75-134	2	30	
1,3-Dichlorobenzene	ug/L	ND	2500	2500	2500	2640	100	106	75-125	5	30	
1,3-Dichloropropane	ug/L	ND	2500	2500	2560	2640	102	106	75-127	3	30	
1,4-Dichlorobenzene	ug/L	ND	2500	2500	2440	2450	98	98	75-125	.6	30	
2,2-Dichloropropane	ug/L	ND	2500	2500	2410	2710	97	108	75-150	11	30	
2-Butanone (MEK)	ug/L	ND	2500	2500	2580	2670	103	107	50-138	3	30	
2-Chlorotoluene	ug/L	ND	2500	2500	2510	2590	100	104	75-134	3	30	
4-Chlorotoluene	ug/L	ND	2500	2500	2480	2580	99	103	75-130	4	30	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	2500	2500	2620	2690	105	108	75-125	3	30	
Acetone	ug/L	ND	6250	6250	7360	7090	118	113	30-142	4	30	
Allyl chloride	ug/L	ND	2500	2500	2780	2960	111	118	75-146	6	30	

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QUALITY CONTROL DATA

Project: CRC City of Rochester
Pace Project No.: 10183331

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1143348 1143349

Parameter	Units	10183364002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Benzene	ug/L	7540	2500	2500	9690	9960	86	97	75-146	3	30	
Bromobenzene	ug/L	ND	2500	2500	2550	2570	102	103	75-125	1	30	
Bromochloromethane	ug/L	ND	2500	2500	2620	2660	105	106	75-129	1	30	
Bromodichloromethane	ug/L	ND	2500	2500	2500	2640	100	105	75-130	5	30	
Bromoform	ug/L	ND	2500	2500	2480	2570	99	103	75-125	4	30	
Bromomethane	ug/L	ND	2500	2500	2320	2650	93	106	52-150	13	30	
Carbon tetrachloride	ug/L	ND	2500	2500	2330	2600	93	104	75-150	11	30	
Chlorobenzene	ug/L	ND	2500	2500	2460	2580	98	103	75-127	5	30	
Chloroethane	ug/L	ND	2500	2500	2260	2310	90	92	75-146	2	30	
Chloroform	ug/L	ND	2500	2500	2550	2670	102	107	75-137	5	30	
Chloromethane	ug/L	ND	2500	2500	2530	2640	101	106	64-150	4	30	
cis-1,2-Dichloroethene	ug/L	ND	2500	2500	2760	2850	110	114	75-139	3	30	
cis-1,3-Dichloropropene	ug/L	ND	2500	2500	2540	2680	102	107	75-129	5	30	
Dibromochloromethane	ug/L	ND	2500	2500	2390	2430	96	97	75-125	1	30	
Dibromomethane	ug/L	ND	2500	2500	2570	2670	103	107	75-126	4	30	
Dichlorodifluoromethane	ug/L	ND	2500	2500	2170	2380	87	95	75-150	9	30	
Dichlorofluoromethane	ug/L	ND	2500	2500	2350	2440	94	98	75-143	4	30	
Diethyl ether (Ethyl ether)	ug/L	ND	2500	2500	2670	2810	107	113	71-133	5	30	
Ethylbenzene	ug/L	960	2500	2500	3360	3480	96	101	75-132	4	30	
Hexachloro-1,3-butadiene	ug/L	ND	1250	1250	1110	1230	89	99	62-147	11	30	
Isopropylbenzene (Cumene)	ug/L	ND	2500	2500	2380	2560	94	101	75-135	7	30	
m&p-Xylene	ug/L	4790	5000	5000	9350	9610	91	96	75-131	3	30	
Methyl-tert-butyl ether	ug/L	ND	2500	2500	2730	2750	108	108	71-137	.9	30	
Methylene Chloride	ug/L	ND	2500	2500	2620	2720	105	109	57-134	4	30	
n-Butylbenzene	ug/L	ND	2500	2500	2550	2650	102	106	74-139	4	30	
n-Propylbenzene	ug/L	ND	2500	2500	2540	2650	100	104	75-137	4	30	
Naphthalene	ug/L	257	2500	2500	2840	2920	103	107	75-129	3	30	
o-Xylene	ug/L	2400	2500	2500	4660	4790	91	96	75-128	3	30	
p-Isopropyltoluene	ug/L	ND	2500	2500	2500	2560	100	102	75-135	2	30	
sec-Butylbenzene	ug/L	ND	2500	2500	2480	2560	99	102	75-137	3	30	
Styrene	ug/L	ND	2500	2500	2470	2610	98	104	75-126	5	30	
tert-Butylbenzene	ug/L	ND	2500	2500	2420	2530	97	101	75-133	4	30	
Tetrachloroethene	ug/L	ND	2500	2500	2400	2500	96	100	75-138	4	30	
Tetrahydrofuran	ug/L	ND	25000	25000	27200	28500	109	114	74-128	5	30	
Toluene	ug/L	10900	2500	2500	13100	13300	87	98	75-131	2	30	E
trans-1,2-Dichloroethene	ug/L	ND	2500	2500	2380	2640	95	106	75-140	11	30	
trans-1,3-Dichloropropene	ug/L	ND	2500	2500	2520	2620	101	105	75-129	4	30	
Trichloroethene	ug/L	ND	2500	2500	2430	2590	97	103	75-132	6	30	
Trichlorofluoromethane	ug/L	ND	2500	2500	2050	2230	82	89	75-150	8	30	
Vinyl chloride	ug/L	ND	2500	2500	2520	2700	101	108	75-150	7	30	
Xylene (Total)	ug/L	7190	7500	7500	14000	14400	91	96	75-129	3	30	
1,2-Dichloroethane-d4 (S)	%						96	100	75-125			
4-Bromofluorobenzene (S)	%						103	99	75-125			
Dibromofluoromethane (S)	%						99	100	75-125			
Toluene-d8 (S)	%						100	100	75-125			

REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: CRC City of Rochester
Pace Project No.: 10183331

QC Batch: MSV/19317 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV 465 W
Associated Lab Samples: 10183331002

METHOD BLANK: 1145185 Matrix: Water
Associated Lab Samples: 10183331002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	1.0	02/22/12 19:06	
1,1,1-Trichloroethane	ug/L	ND	1.0	02/22/12 19:06	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	02/22/12 19:06	
1,1,2-Trichloroethane	ug/L	ND	1.0	02/22/12 19:06	
1,1,2-Trichlorotrifluoroethane	ug/L	ND	1.0	02/22/12 19:06	
1,1-Dichloroethane	ug/L	ND	1.0	02/22/12 19:06	
1,1-Dichloroethene	ug/L	ND	1.0	02/22/12 19:06	
1,1-Dichloropropene	ug/L	ND	1.0	02/22/12 19:06	
1,2,3-Trichlorobenzene	ug/L	ND	1.0	02/22/12 19:06	
1,2,3-Trichloropropane	ug/L	ND	4.0	02/22/12 19:06	
1,2,4-Trichlorobenzene	ug/L	ND	1.0	02/22/12 19:06	
1,2,4-Trimethylbenzene	ug/L	ND	1.0	02/22/12 19:06	
1,2-Dibromo-3-chloropropane	ug/L	ND	4.0	02/22/12 19:06	
1,2-Dibromoethane (EDB)	ug/L	ND	1.0	02/22/12 19:06	
1,2-Dichlorobenzene	ug/L	ND	1.0	02/22/12 19:06	
1,2-Dichloroethane	ug/L	ND	1.0	02/22/12 19:06	
1,2-Dichloropropane	ug/L	ND	4.0	02/22/12 19:06	
1,3,5-Trimethylbenzene	ug/L	ND	1.0	02/22/12 19:06	
1,3-Dichlorobenzene	ug/L	ND	1.0	02/22/12 19:06	
1,3-Dichloropropane	ug/L	ND	1.0	02/22/12 19:06	
1,4-Dichlorobenzene	ug/L	ND	1.0	02/22/12 19:06	
2,2-Dichloropropane	ug/L	ND	4.0	02/22/12 19:06	
2-Butanone (MEK)	ug/L	ND	4.0	02/22/12 19:06	
2-Chlorotoluene	ug/L	ND	1.0	02/22/12 19:06	
4-Chlorotoluene	ug/L	ND	1.0	02/22/12 19:06	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	4.0	02/22/12 19:06	
Acetone	ug/L	ND	25.0	02/22/12 19:06	
Allyl chloride	ug/L	ND	4.0	02/22/12 19:06	
Benzene	ug/L	ND	1.0	02/22/12 19:06	
Bromobenzene	ug/L	ND	1.0	02/22/12 19:06	
Bromochloromethane	ug/L	ND	1.0	02/22/12 19:06	
Bromodichloromethane	ug/L	ND	1.0	02/22/12 19:06	
Bromoform	ug/L	ND	4.0	02/22/12 19:06	
Bromomethane	ug/L	ND	4.0	02/22/12 19:06	
Carbon tetrachloride	ug/L	ND	1.0	02/22/12 19:06	
Chlorobenzene	ug/L	ND	1.0	02/22/12 19:06	
Chloroethane	ug/L	ND	1.0	02/22/12 19:06	
Chloroform	ug/L	ND	1.0	02/22/12 19:06	
Chloromethane	ug/L	ND	4.0	02/22/12 19:06	
cis-1,2-Dichloroethene	ug/L	ND	1.0	02/22/12 19:06	
cis-1,3-Dichloropropene	ug/L	ND	4.0	02/22/12 19:06	
Dibromochloromethane	ug/L	ND	1.0	02/22/12 19:06	
Dibromomethane	ug/L	ND	4.0	02/22/12 19:06	

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QUALITY CONTROL DATA

Project: CRC City of Rochester
Pace Project No.: 10183331

METHOD BLANK: 1145185 Matrix: Water

Associated Lab Samples: 10183331002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Dichlorodifluoromethane	ug/L	ND	1.0	02/22/12 19:06	
Dichlorofluoromethane	ug/L	ND	1.0	02/22/12 19:06	
Diethyl ether (Ethyl ether)	ug/L	ND	4.0	02/22/12 19:06	
Ethylbenzene	ug/L	ND	1.0	02/22/12 19:06	
Hexachloro-1,3-butadiene	ug/L	ND	5.0	02/22/12 19:06	
Isopropylbenzene (Cumene)	ug/L	ND	1.0	02/22/12 19:06	
m&p-Xylene	ug/L	ND	2.0	02/22/12 19:06	
Methyl-tert-butyl ether	ug/L	ND	1.0	02/22/12 19:06	
Methylene Chloride	ug/L	ND	4.0	02/22/12 19:06	
n-Butylbenzene	ug/L	ND	1.0	02/22/12 19:06	
n-Propylbenzene	ug/L	ND	1.0	02/22/12 19:06	
Naphthalene	ug/L	ND	4.0	02/22/12 19:06	
o-Xylene	ug/L	ND	1.0	02/22/12 19:06	
p-Isopropyltoluene	ug/L	ND	1.0	02/22/12 19:06	
sec-Butylbenzene	ug/L	ND	1.0	02/22/12 19:06	
Styrene	ug/L	ND	1.0	02/22/12 19:06	
tert-Butylbenzene	ug/L	ND	1.0	02/22/12 19:06	
Tetrachloroethene	ug/L	ND	1.0	02/22/12 19:06	
Tetrahydrofuran	ug/L	ND	10.0	02/22/12 19:06	
Toluene	ug/L	ND	1.0	02/22/12 19:06	
trans-1,2-Dichloroethene	ug/L	ND	1.0	02/22/12 19:06	
trans-1,3-Dichloropropene	ug/L	ND	4.0	02/22/12 19:06	
Trichloroethene	ug/L	ND	1.0	02/22/12 19:06	
Trichlorofluoromethane	ug/L	ND	1.0	02/22/12 19:06	
Vinyl chloride	ug/L	ND	0.40	02/22/12 19:06	
Xylene (Total)	ug/L	ND	3.0	02/22/12 19:06	
1,2-Dichloroethane-d4 (S)	%	96	75-125	02/22/12 19:06	
4-Bromofluorobenzene (S)	%	98	75-125	02/22/12 19:06	
Dibromofluoromethane (S)	%	100	75-125	02/22/12 19:06	
Toluene-d8 (S)	%	99	75-125	02/22/12 19:06	

LABORATORY CONTROL SAMPLE & LCSD: 1145186 1145187

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	54.7	52.7	109	105	75-125	4	20	
1,1,1-Trichloroethane	ug/L	50	52.8	49.6	106	99	73-128	6	20	
1,1,2,2-Tetrachloroethane	ug/L	50	57.4	52.4	115	105	75-125	9	20	
1,1,2-Trichloroethane	ug/L	50	56.7	53.4	113	107	75-125	6	20	
1,1,2-Trichlorotrifluoroethane	ug/L	50	45.4	42.4	91	85	63-125	7	20	
1,1-Dichloroethane	ug/L	50	50.4	47.5	101	95	72-126	6	20	
1,1-Dichloroethene	ug/L	50	54.7	54.3	109	109	73-129	.6	20	
1,1-Dichloropropene	ug/L	50	54.6	51.4	109	103	72-128	6	20	
1,2,3-Trichlorobenzene	ug/L	50	57.1	52.1	114	104	73-125	9	20	
1,2,3-Trichloropropane	ug/L	50	54.2	50.6	108	101	75-125	7	20	
1,2,4-Trichlorobenzene	ug/L	50	55.9	51.7	112	103	74-125	8	20	

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QUALITY CONTROL DATA

Project: CRC City of Rochester
Pace Project No.: 10183331

LABORATORY CONTROL SAMPLE & LCSD: 1145186 1145187

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,2,4-Trimethylbenzene	ug/L	50	56.3	52.1	113	104	75-126	8	20	
1,2-Dibromo-3-chloropropane	ug/L	50	53.8	51.4	108	103	75-125	5	20	
1,2-Dibromoethane (EDB)	ug/L	50	55.6	53.5	111	107	75-125	4	20	
1,2-Dichlorobenzene	ug/L	50	54.5	51.1	109	102	75-125	6	20	
1,2-Dichloroethane	ug/L	50	55.3	52.7	111	105	75-132	5	20	
1,2-Dichloropropane	ug/L	50	55.5	54.3	111	109	75-125	2	20	
1,3,5-Trimethylbenzene	ug/L	50	55.6	51.5	111	103	75-126	8	20	
1,3-Dichlorobenzene	ug/L	50	56.1	50.7	112	101	75-125	10	20	
1,3-Dichloropropane	ug/L	50	53.5	53.0	107	106	75-125	1	20	
1,4-Dichlorobenzene	ug/L	50	54.1	50.0	108	100	75-125	8	20	
2,2-Dichloropropane	ug/L	50	51.7	50.5	103	101	72-133	2	20	
2-Butanone (MEK)	ug/L	50	54.0	51.3	108	103	52-138	5	20	
2-Chlorotoluene	ug/L	50	56.4	52.1	113	104	74-125	8	20	
4-Chlorotoluene	ug/L	50	58.3	52.3	117	105	75-125	11	20	
4-Methyl-2-pentanone (MIBK)	ug/L	50	58.4	55.3	117	111	75-125	6	20	
Acetone	ug/L	125	131	134	104	107	30-150	2	20	
Allyl chloride	ug/L	50	57.5	55.1	115	110	75-132	4	20	
Benzene	ug/L	50	56.1	53.2	112	106	75-132	5	20	
Bromobenzene	ug/L	50	56.3	51.0	113	102	75-125	10	20	
Bromochloromethane	ug/L	50	56.1	54.0	112	108	75-126	4	20	
Bromodichloromethane	ug/L	50	54.1	52.8	108	106	75-125	2	20	
Bromoform	ug/L	50	53.6	52.8	107	106	75-125	1	20	
Bromomethane	ug/L	50	56.1	52.1	112	104	52-150	7	20	
Carbon tetrachloride	ug/L	50	55.1	51.9	110	104	73-132	6	20	
Chlorobenzene	ug/L	50	57.1	54.8	114	110	75-125	4	20	
Chloroethane	ug/L	50	50.3	44.3	101	89	75-143	13	20	
Chloroform	ug/L	50	58.2	54.1	116	108	75-128	7	20	
Chloromethane	ug/L	50	53.7	48.1	107	96	56-136	11	20	
cis-1,2-Dichloroethene	ug/L	50	58.5	54.3	117	109	75-125	7	20	
cis-1,3-Dichloropropene	ug/L	50	54.0	52.3	108	105	75-125	3	20	
Dibromochloromethane	ug/L	50	51.8	50.7	104	101	75-125	2	20	
Dibromomethane	ug/L	50	57.0	53.5	114	107	75-125	6	20	
Dichlorodifluoromethane	ug/L	50	37.9	35.0	76	70	50-137	8	20	
Dichlorofluoromethane	ug/L	50	66.5	61.6	133	123	68-133	8	20	
Diethyl ether (Ethyl ether)	ug/L	50	57.8	55.6	116	111	75-125	4	20	
Ethylbenzene	ug/L	50	55.0	51.1	110	102	75-125	7	20	
Hexachloro-1,3-butadiene	ug/L	25	28.3	24.2	113	97	57-132	16	20	
Isopropylbenzene (Cumene)	ug/L	50	54.3	51.0	109	102	75-125	6	20	
m&p-Xylene	ug/L	100	113	106	113	106	75-125	7	20	
Methyl-tert-butyl ether	ug/L	50	55.2	52.0	110	104	74-130	6	20	
Methylene Chloride	ug/L	50	56.1	52.9	112	106	62-127	6	20	
n-Butylbenzene	ug/L	50	56.8	52.1	114	104	68-128	8	20	
n-Propylbenzene	ug/L	50	55.3	50.8	111	102	74-125	9	20	
Naphthalene	ug/L	50	54.6	52.6	109	105	75-125	4	20	
o-Xylene	ug/L	50	54.2	51.7	108	103	75-125	5	20	
p-Isopropyltoluene	ug/L	50	57.5	52.7	115	105	75-125	9	20	
sec-Butylbenzene	ug/L	50	55.3	50.8	111	102	71-125	8	20	
Styrene	ug/L	50	55.8	53.8	112	108	75-125	4	20	

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QUALITY CONTROL DATA

Project: CRC City of Rochester
Pace Project No.: 10183331

LABORATORY CONTROL SAMPLE & LCSD: 1145186 1145187

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
tert-Butylbenzene	ug/L	50	55.1	50.2	110	100	73-125	9	20	
Tetrachloroethene	ug/L	50	55.3	50.7	111	101	75-125	9	20	
Tetrahydrofuran	ug/L	500	578	552	116	110	75-128	5	20	
Toluene	ug/L	50	53.6	50.1	107	100	75-125	7	20	
trans-1,2-Dichloroethene	ug/L	50	53.8	50.3	108	101	75-125	7	20	
trans-1,3-Dichloropropene	ug/L	50	55.3	53.1	111	106	75-125	4	20	
Trichloroethene	ug/L	50	56.6	54.3	113	109	75-125	4	20	
Trichlorofluoromethane	ug/L	50	49.8	47.0	100	94	64-139	6	20	
Vinyl chloride	ug/L	50	56.8	52.2	114	104	75-150	8	20	
Xylene (Total)	ug/L	150	167	157	112	105	75-125	6	20	
1,2-Dichloroethane-d4 (S)	%				102	101	75-125			
4-Bromofluorobenzene (S)	%				101	99	75-125			
Dibromofluoromethane (S)	%				99	99	75-125			
Toluene-d8 (S)	%				101	100	75-125			

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QUALIFIERS

Project: CRC City of Rochester
Pace Project No.: 10183331

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.

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.

BATCH QUALIFIERS

Batch: MSV/19317

[M5]	A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

ANALYTE QUALIFIERS

E	Analyte concentration exceeded the calibration range. The reported result is estimated.
HS	Results are from sample aliquot taken from VOA vial with headspace (air bubble greater than 6 mm diameter).

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: CRC City of Rochester
Pace Project No.: 10183331

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10183331001	**DPE-1**	EPA 8260	MSV/19293		
10183331002	**DPE-2**	EPA 8260	MSV/19317		
10183331003	**DPE-3**	EPA 8260	MSV/19299		
10183331004	**DPE-4**	EPA 8260	MSV/19293		
10183331005	**DPE-5**	EPA 8260	MSV/19293		
10183331006	**DPE-6**	EPA 8260	MSV/19293		
10183331007	**DPE-7**	EPA 8260	MSV/19293		
10183331008	**MW-14**	EPA 8260	MSV/19293		
10183331009	**MW-15**	EPA 8260	MSV/19293		
10183331010	**MW-16**	EPA 8260	MSV/19293		
10183331011	**MW-17**	EPA 8260	MSV/19293		
10183331012	**MW-18**	EPA 8260	MSV/19293		
10183331013	**MW-19**	EPA 8260	MSV/19293		
10183331014	**MW-20**	EPA 8260	MSV/19293		
10183331015	**Trip Blank**	EPA 8260	MSV/19293		

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CHAIN-OF-CUSTODY / Analytical Request Document

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

1018331

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

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER

☐ UST ☐ RCRA ☐ THER_____

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

Section D **Required** Client Information

SAMPLE ID

One Character per box.

(A-Z, 0-9 / ,-)

Samples IDs MUST BE UNIQUE

Valid Matrix Codes

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

ITEM #	Section D SAMPLE ID	MATRIX CODE	SAMPLE TYPE G=GRAB C=COMP	COLLECTED COMPOSITE START DATE	COLLECTED COMPOSITE START TIME	COLLECTED COMPOSITE END/GRAB DATE	COLLECTED COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	#OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Filtered (Y/N)	Requested Analysis: EPA 8260 VOCs	Pace Project Number / Lab I.D.
1																				
2																				
3	DPE-1	W	G	2/16/12	6:15				3										X	001
4	DPE-2	W	G	2/16/12	6:30				3										X	002
5	DPE-3	W	G	2/16/12	7:45				3										X	003
6	DPE-4	W	G	2/16/12	8:00				3										X	004
7	DPE-5	W	G	2/16/12	8:15				3										X	005
8	DPE-6	W	G	2/16/12	8:30				3										X	006
5	DPE-7	W	G	2/16/12	8:45				3										X	007
6																				
7																				
8																				

Additional Comments:

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
			PACE	2/17/12	1311

SAMPLE CONDITIONS

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

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER:

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

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1120

CHAIN-OF-CUSTODY / Analytical Request Document

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

10183331

~~10183329~~ 2-17

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

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER

☐ UST ☐ RCRA ☐ OTHER_____

SITE LOCATION ☐ MA ☐ _ ☐ NY ☐ ☐ ☐ OH ☐ SC ☐ VI ☐ OTHER____

Section D **Required** Client Information

SAMPLE ID

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

Valid Matrix Codes

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

ITEM #	SAMPLE ID	MATRIX CODE	SAMPLE TYPE G=GRAB C=COMP	COLLECTED COMPOSITE START DATE	COLLECTED COMPOSITE START TIME	COLLECTED COMPOSITE END/GRAB DATE	COLLECTED COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	#OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Requested Analysis: EPA 8260 VOCs	Pace Project Number Lab I.D.
1	MW-14	W	G	5/19/11	16:20				3									X	008
2	MW-15	W	G	5/19/11	17:10				3									X	009
3	MW-16	W	G	5/19/11	20:10				3									X	010
4	MW-17	W	G	5/19/11	18:20				3									X	011
5	MW-18	W	G	5/19/11	17:50				3									X	012
6	MW-19	W	G	5/19/11	15:45				3									X	013
7	MW-20	W	G	5/19/11	19:00				3									X	014
8																			Trip Blank 015
5																			
6																			
7																			
8																			

Additional Comments:

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
			[signature] PACE	2/17/12	1311

SAMPLE CONDITIONS

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

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Eric Gabrielson

SIGNATURE of SAMPLER: [signature] DATE Signed (MM / DD / YY): 2/17/12

Pace Analytical®	Document Name: **Sample Condition Upon Receipt Form**	Revised Date: 02Jun2011 Page 1 of 1
	Document Number: **F-L-213 Rev.01**	Issuing Authority: Pace Minnesota Quality Office

Sample Condition Upon Receipt

Client Name: ~~LANDMARK ENVIORMENTAL~~ Project # ~~10163329~~ 10163331 2-17

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

Tracking #: 5PC0749 03 0HIZ 2507

Optional: Proj. Due Date: Proj. Name:

Custody Seal on Cooler/Box Present: ☐ yes ☑ no Seals intact: ☐ yes ☑ no

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

Thermometer Used ~~80544042~~ or 80512447 Type of Ice: ☑ Wet ☐ Blue ☐ None ☐ Samples on ice, cooling process has begun

Cooler Temperature 3.8 Biological Tissue is Frozen: Yes No

Temp should be above freezing to 6°C

Date and initials of person examining contents: ~~KS~~ 2/17/12

		Comments:
Chain of Custody Present:	☑Yes ☐No ☐N/A	1.
Chain of Custody Filled Out:	☑Yes ☐No ☐N/A	2.
Chain of Custody Relinquished:	☐Yes ☑No ☐N/A	3.
Sampler Name & Signature on COC:	☑Yes ☐No ☐N/A	4.
Samples Arrived within Hold Time:	☑Yes ☐No ☐N/A	5.
Short Hold Time Analysis (<72hr):	☐Yes ☑No ☐N/A	6.
Rush Turn Around Time Requested:	☐Yes ☑No ☐N/A	7.
Sufficient Volume:	☑Yes ☐No ☐N/A	8.
Correct Containers Used:	☑Yes ☐No ☐N/A	9.
-Pace Containers Used:	☑Yes ☐No ☐N/A	
Containers Intact:	☑Yes ☐No ☐N/A	10. 4 UNUSED VIALS
Filtered volume received for Dissolved tests	☐Yes ☑No ☐N/A	11.
Sample Labels match COC:	~~2-17~~ ~~☐Yes~~ ~~☒No~~ ☐N/A	12. Date wrong Samples list date as 2-15-12 COC lists 5.19.11
-Includes date/time/ID/Analysis Matrix:	WT	
All containers needing acid/base preservation have been checked. Noncompliance are noted in 13.	☐Yes ☐No ☐N/A	13. ☐ HNO3 ☐ H2SO4 ☐ NaOH ☐ HCl
All containers needing preservation are found to be in compliance with EPA recommendation.	☐Yes ☐No ☐N/A	Samp #
Exceptions: VOA Coliform, TOC, Oil and Grease, WI-DRO (water)	☑Yes ☐No	Initial when completed ☑ Lot # of added preservative
Samples checked for dechlorination:	☐Yes ☐No ☑N/A	14.
Headspace in VOA Vials (>6mm):	☐Yes ☑No ☐N/A	15.
Trip Blank Present:	☑Yes ☐No ☐N/A	16.
Trip Blank Custody Seals Present	☑Yes ☐No ☐N/A	
Pace Trip Blank Lot # (if purchased):	011212-1 (1SET)	

Client Notification/ Resolution: Field Data Required? Y / N

Person Contacted: E. Gabrielson (Email) Date/Time: 2-17-12 16:50

Comments/ Resolution: date wrong on pg. 2 of COC.

Project Manager Review: Shawna Davis **Date:** 2-17-12

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

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

February 21, 2012

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

RE: Project: CRC City of Rochester - Rev
Pace Project No.: 10181134

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

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

Sincerely,

Carolynne Trout

Carolynne Trout

carolynne.trout@pacelabs.com
Project Manager

Enclosures

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CERTIFICATIONS

Project: CRC City of Rochester - Rev
Pace Project No.: 10181134

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
EPA Region 8 Certification #: Pace
Florida/NELAP Certification #: E87605
Georgia Certification #: 959
Idaho Certification #: MN00064
Illinois Certification #: 200011
Iowa Certification #: 368
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 Mexico Certification #: Pace
New York Certification #: 11647
North Carolina Certification #: 530
North Dakota Certification #: R-036
North Dakota Certification #: R-036A
Ohio VAP Certification #: CL101
Oklahoma Certification #: D9921
Oklahoma Certification #: 9507
Oregon Certification #: MN200001
Pennsylvania Certification #: 68-00563
Puerto Rico Certification
Tennessee Certification #: 02818
Texas Certification #: T104704192
Washington Certification #: C754
Wisconsin Certification #: 999407970

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(612)607-1700

SAMPLE SUMMARY

Project: CRC City of Rochester - Rev
Pace Project No.: 10181134

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10181134001	**AS-Influent**	Water	01/20/12 13:00	01/20/12 17:54
10181134002	**AS-Effluent**	Water	01/20/12 13:35	01/20/12 17:54

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(612)607-1700

SAMPLE ANALYTE COUNT

Project: CRC City of Rochester - Rev
Pace Project No.: 10181134

Lab ID	Sample ID	Method	Analysts	Analytes Reported
10181134001	**AS-Influent**	EPA 624	SE	83
10181134002	**AS-Effluent**	EPA 624	SE	81

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ANALYTICAL RESULTS

Project: CRC City of Rochester - Rev
Pace Project No.: 10181134

Sample: AS-Influent **Lab ID: 10181134001** Collected: 01/20/12 13:00 Received: 01/20/12 17:54 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		01/30/12 10:58	67-64-1	
Acrolein	ND	ug/L	10.0	1		01/30/12 10:58	107-02-8	
Acrylonitrile	ND	ug/L	10.0	1		01/30/12 10:58	107-13-1	
Allyl chloride	ND	ug/L	4.0	1		01/30/12 10:58	107-05-1	
Benzene	ND	ug/L	1.0	1		01/30/12 10:58	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		01/30/12 10:58	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		01/30/12 10:58	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		01/30/12 10:58	75-27-4	
Bromoform	ND	ug/L	4.0	1		01/30/12 10:58	75-25-2	
Bromomethane	ND	ug/L	4.0	1		01/30/12 10:58	74-83-9	
2-Butanone (MEK)	**8.8**	ug/L	4.0	1		01/30/12 10:58	78-93-3	
n-Butylbenzene	ND	ug/L	1.0	1		01/30/12 10:58	104-51-8	
sec-Butylbenzene	ND	ug/L	1.0	1		01/30/12 10:58	135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	1		01/30/12 10:58	98-06-6	
Carbon disulfide	ND	ug/L	1.0	1		01/30/12 10:58	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	1		01/30/12 10:58	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		01/30/12 10:58	108-90-7	
Chloroethane	ND	ug/L	1.0	1		01/30/12 10:58	75-00-3	
2-Chloroethylvinyl ether	ND	ug/L	10.0	1		01/30/12 10:58	110-75-8	
Chloroform	ND	ug/L	1.0	1		01/30/12 10:58	67-66-3	
Chloromethane	**9.4**	ug/L	4.0	1		01/30/12 10:58	74-87-3	
Chloroprene	ND	ug/L	1.0	1		01/30/12 10:58	126-99-8	
2-Chlorotoluene	ND	ug/L	1.0	1		01/30/12 10:58	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		01/30/12 10:58	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	4.0	1		01/30/12 10:58	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		01/30/12 10:58	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		01/30/12 10:58	106-93-4	
Dibromomethane	ND	ug/L	4.0	1		01/30/12 10:58	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		01/30/12 10:58	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		01/30/12 10:58	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		01/30/12 10:58	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		01/30/12 10:58	75-71-8	L2
1,1-Dichloroethane	ND	ug/L	1.0	1		01/30/12 10:58	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		01/30/12 10:58	107-06-2	
1,2-Dichloroethene (Total)	ND	ug/L	2.0	1		01/30/12 10:58	540-59-0	
1,1-Dichloroethene	ND	ug/L	1.0	1		01/30/12 10:58	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		01/30/12 10:58	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		01/30/12 10:58	156-60-5	
Dichlorofluoromethane	ND	ug/L	1.0	1		01/30/12 10:58	75-43-4	
1,2-Dichloropropane	ND	ug/L	4.0	1		01/30/12 10:58	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		01/30/12 10:58	142-28-9	
2,2-Dichloropropane	ND	ug/L	4.0	1		01/30/12 10:58	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		01/30/12 10:58	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	4.0	1		01/30/12 10:58	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	4.0	1		01/30/12 10:58	10061-02-6	
Diethyl ether (Ethyl ether)	ND	ug/L	4.0	1		01/30/12 10:58	60-29-7	
Ethylbenzene	ND	ug/L	1.0	1		01/30/12 10:58	100-41-4	

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Minneapolis, MN 55414
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ANALYTICAL RESULTS

Project: CRC City of Rochester - Rev
Pace Project No.: 10181134

Sample: AS-Influent **Lab ID: 10181134001** Collected: 01/20/12 13:00 Received: 01/20/12 17:54 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		01/30/12 10:58	87-68-3	
2-Hexanone	ND	ug/L	4.0	1		01/30/12 10:58	591-78-6	
Iodomethane	ND	ug/L	4.0	1		01/30/12 10:58	74-88-4	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		01/30/12 10:58	98-82-8	
p-Isopropyltoluene	ND	ug/L	1.0	1		01/30/12 10:58	99-87-6	
Methylene Chloride	ND	ug/L	10.0	1		01/30/12 10:58	75-09-2	
2-Methylnaphthalene	ND	ug/L	5.0	1		01/30/12 10:58	91-57-6	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	4.0	1		01/30/12 10:58	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		01/30/12 10:58	1634-04-4	
Naphthalene	ND	ug/L	4.0	1		01/30/12 10:58	91-20-3	
n-Propylbenzene	ND	ug/L	1.0	1		01/30/12 10:58	103-65-1	
Styrene	ND	ug/L	1.0	1		01/30/12 10:58	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		01/30/12 10:58	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		01/30/12 10:58	79-34-5	
Tetrachloroethene	**149**	ug/L	1.0	1		01/30/12 10:58	127-18-4	
Tetrahydrofuran	ND	ug/L	10.0	1		01/30/12 10:58	109-99-9	
Toluene	ND	ug/L	1.0	1		01/30/12 10:58	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		01/30/12 10:58	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		01/30/12 10:58	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		01/30/12 10:58	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		01/30/12 10:58	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		01/30/12 10:58	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		01/30/12 10:58	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	4.0	1		01/30/12 10:58	96-18-4	
1,1,2-Trichlorotrifluoroethane	**2.9**	ug/L	1.0	1		01/30/12 10:58	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1		01/30/12 10:58	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1		01/30/12 10:58	108-67-8	
Vinyl acetate	ND	ug/L	10.0	1		01/30/12 10:58	108-05-4	
Vinyl chloride	ND	ug/L	0.40	1		01/30/12 10:58	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		01/30/12 10:58	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		01/30/12 10:58	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		01/30/12 10:58	95-47-6	
Surrogates								
Dibromofluoromethane (S)	100	%	75-125	1		01/30/12 10:58	1868-53-7	
1,2-Dichloroethane-d4 (S)	102	%	75-125	1		01/30/12 10:58	17060-07-0	
Toluene-d8 (S)	96	%	75-125	1		01/30/12 10:58	2037-26-5	
4-Bromofluorobenzene (S)	100	%	75-125	1		01/30/12 10:58	460-00-4	

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

ANALYTICAL RESULTS

Project: CRC City of Rochester - Rev
Pace Project No.: 10181134

Sample: AS-Effluent **Lab ID: 10181134002** Collected: 01/20/12 13:35 Received: 01/20/12 17:54 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		01/30/12 10:19	67-64-1	
Allyl chloride	ND	ug/L	4.0	1		01/30/12 10:19	107-05-1	
Benzene	ND	ug/L	1.0	1		01/30/12 10:19	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		01/30/12 10:19	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		01/30/12 10:19	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		01/30/12 10:19	75-27-4	
Bromoform	ND	ug/L	4.0	1		01/30/12 10:19	75-25-2	
Bromomethane	ND	ug/L	4.0	1		01/30/12 10:19	74-83-9	
2-Butanone (MEK)	ND	ug/L	4.0	1		01/30/12 10:19	78-93-3	
n-Butylbenzene	ND	ug/L	1.0	1		01/30/12 10:19	104-51-8	
sec-Butylbenzene	ND	ug/L	1.0	1		01/30/12 10:19	135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	1		01/30/12 10:19	98-06-6	
Carbon disulfide	ND	ug/L	1.0	1		01/30/12 10:19	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	1		01/30/12 10:19	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		01/30/12 10:19	108-90-7	
Chloroethane	ND	ug/L	1.0	1		01/30/12 10:19	75-00-3	
2-Chloroethylvinyl ether	ND	ug/L	10.0	1		01/30/12 10:19	110-75-8	M1
Chloroform	ND	ug/L	1.0	1		01/30/12 10:19	67-66-3	
Chloromethane	**7.8**	ug/L	4.0	1		01/30/12 10:19	74-87-3	
Chloroprene	ND	ug/L	1.0	1		01/30/12 10:19	126-99-8	
2-Chlorotoluene	ND	ug/L	1.0	1		01/30/12 10:19	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		01/30/12 10:19	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	4.0	1		01/30/12 10:19	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		01/30/12 10:19	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		01/30/12 10:19	106-93-4	
Dibromomethane	ND	ug/L	4.0	1		01/30/12 10:19	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		01/30/12 10:19	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		01/30/12 10:19	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		01/30/12 10:19	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		01/30/12 10:19	75-71-8	L2
1,1-Dichloroethane	ND	ug/L	1.0	1		01/30/12 10:19	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		01/30/12 10:19	107-06-2	
1,2-Dichloroethene (Total)	ND	ug/L	2.0	1		01/30/12 10:19	540-59-0	
1,1-Dichloroethene	ND	ug/L	1.0	1		01/30/12 10:19	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		01/30/12 10:19	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		01/30/12 10:19	156-60-5	
Dichlorofluoromethane	ND	ug/L	1.0	1		01/30/12 10:19	75-43-4	
1,2-Dichloropropane	ND	ug/L	4.0	1		01/30/12 10:19	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		01/30/12 10:19	142-28-9	
2,2-Dichloropropane	ND	ug/L	4.0	1		01/30/12 10:19	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		01/30/12 10:19	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	4.0	1		01/30/12 10:19	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	4.0	1		01/30/12 10:19	10061-02-6	
Diethyl ether (Ethyl ether)	ND	ug/L	4.0	1		01/30/12 10:19	60-29-7	
Ethylbenzene	ND	ug/L	1.0	1		01/30/12 10:19	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	5.0	1		01/30/12 10:19	87-68-3	
2-Hexanone	ND	ug/L	4.0	1		01/30/12 10:19	591-78-6	

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ANALYTICAL RESULTS

Project: CRC City of Rochester - Rev
Pace Project No.: 10181134

Sample: AS-Effluent **Lab ID: 10181134002** Collected: 01/20/12 13:35 Received: 01/20/12 17:54 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
624 MSV	Analytical Method: EPA 624							
Iodomethane	ND	ug/L	4.0	1		01/30/12 10:19	74-88-4	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		01/30/12 10:19	98-82-8	
p-Isopropyltoluene	ND	ug/L	1.0	1		01/30/12 10:19	99-87-6	
Methylene Chloride	ND	ug/L	10.0	1		01/30/12 10:19	75-09-2	
2-Methylnaphthalene	ND	ug/L	5.0	1		01/30/12 10:19	91-57-6	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	4.0	1		01/30/12 10:19	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		01/30/12 10:19	1634-04-4	
Naphthalene	ND	ug/L	4.0	1		01/30/12 10:19	91-20-3	
n-Propylbenzene	ND	ug/L	1.0	1		01/30/12 10:19	103-65-1	
Styrene	ND	ug/L	1.0	1		01/30/12 10:19	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		01/30/12 10:19	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		01/30/12 10:19	79-34-5	
Tetrachloroethene	**45.1**	ug/L	1.0	1		01/30/12 10:19	127-18-4	
Tetrahydrofuran	ND	ug/L	10.0	1		01/30/12 10:19	109-99-9	
Toluene	ND	ug/L	1.0	1		01/30/12 10:19	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		01/30/12 10:19	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		01/30/12 10:19	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		01/30/12 10:19	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		01/30/12 10:19	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		01/30/12 10:19	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		01/30/12 10:19	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	4.0	1		01/30/12 10:19	96-18-4	
1,1,2-Trichlorotrifluoroethane	**6.4**	ug/L	1.0	1		01/30/12 10:19	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1		01/30/12 10:19	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1		01/30/12 10:19	108-67-8	
Vinyl acetate	ND	ug/L	10.0	1		01/30/12 10:19	108-05-4	
Vinyl chloride	ND	ug/L	0.40	1		01/30/12 10:19	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		01/30/12 10:19	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		01/30/12 10:19	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		01/30/12 10:19	95-47-6	
Surrogates								
Dibromofluoromethane (S)	100	%	75-125	1		01/30/12 10:19	1868-53-7	
1,2-Dichloroethane-d4 (S)	103	%	75-125	1		01/30/12 10:19	17060-07-0	
Toluene-d8 (S)	97	%	75-125	1		01/30/12 10:19	2037-26-5	
4-Bromofluorobenzene (S)	100	%	75-125	1		01/30/12 10:19	460-00-4	

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QUALITY CONTROL DATA

Project: CRC City of Rochester - Rev
Pace Project No.: 10181134

QC Batch: MSV/19167 Analysis Method: EPA 624
QC Batch Method: EPA 624 Analysis Description: 624 MSV
Associated Lab Samples: 10181134001, 10181134002

METHOD BLANK: 1133389 Matrix: Water
Associated Lab Samples: 10181134001, 10181134002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	1.0	01/30/12 09:53	
1,1,1-Trichloroethane	ug/L	ND	1.0	01/30/12 09:53	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	01/30/12 09:53	
1,1,2-Trichloroethane	ug/L	ND	1.0	01/30/12 09:53	
1,1,2-Trichlorotrifluoroethane	ug/L	ND	1.0	01/30/12 09:53	
1,1-Dichloroethane	ug/L	ND	1.0	01/30/12 09:53	
1,1-Dichloroethene	ug/L	ND	1.0	01/30/12 09:53	
1,1-Dichloropropene	ug/L	ND	1.0	01/30/12 09:53	
1,2,3-Trichlorobenzene	ug/L	ND	1.0	01/30/12 09:53	
1,2,3-Trichloropropane	ug/L	ND	4.0	01/30/12 09:53	
1,2,4-Trichlorobenzene	ug/L	ND	1.0	01/30/12 09:53	
1,2,4-Trimethylbenzene	ug/L	ND	1.0	01/30/12 09:53	
1,2-Dibromo-3-chloropropane	ug/L	ND	4.0	01/30/12 09:53	
1,2-Dibromoethane (EDB)	ug/L	ND	1.0	01/30/12 09:53	
1,2-Dichlorobenzene	ug/L	ND	1.0	01/30/12 09:53	
1,2-Dichloroethane	ug/L	ND	1.0	01/30/12 09:53	
1,2-Dichloropropane	ug/L	ND	4.0	01/30/12 09:53	
1,3,5-Trimethylbenzene	ug/L	ND	1.0	01/30/12 09:53	
1,3-Dichlorobenzene	ug/L	ND	1.0	01/30/12 09:53	
1,3-Dichloropropane	ug/L	ND	1.0	01/30/12 09:53	
1,4-Dichlorobenzene	ug/L	ND	1.0	01/30/12 09:53	
2,2-Dichloropropane	ug/L	ND	4.0	01/30/12 09:53	
2-Butanone (MEK)	ug/L	ND	4.0	01/30/12 09:53	
2-Chloroethylvinyl ether	ug/L	ND	10.0	01/30/12 09:53	
2-Chlorotoluene	ug/L	ND	1.0	01/30/12 09:53	
4-Chlorotoluene	ug/L	ND	1.0	01/30/12 09:53	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	4.0	01/30/12 09:53	
Acetone	ug/L	ND	25.0	01/30/12 09:53	
Acrolein	ug/L	ND	10.0	01/30/12 09:53	
Acrylonitrile	ug/L	ND	10.0	01/30/12 09:53	
Allyl chloride	ug/L	ND	4.0	01/30/12 09:53	
Benzene	ug/L	ND	1.0	01/30/12 09:53	
Bromobenzene	ug/L	ND	1.0	01/30/12 09:53	
Bromochloromethane	ug/L	ND	1.0	01/30/12 09:53	
Bromodichloromethane	ug/L	ND	1.0	01/30/12 09:53	
Bromoform	ug/L	ND	4.0	01/30/12 09:53	
Bromomethane	ug/L	ND	4.0	01/30/12 09:53	
Carbon tetrachloride	ug/L	ND	1.0	01/30/12 09:53	
Chlorobenzene	ug/L	ND	1.0	01/30/12 09:53	
Chloroethane	ug/L	ND	1.0	01/30/12 09:53	
Chloroform	ug/L	ND	1.0	01/30/12 09:53	
Chloromethane	ug/L	ND	4.0	01/30/12 09:53	
cis-1,2-Dichloroethene	ug/L	ND	1.0	01/30/12 09:53	

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QUALITY CONTROL DATA

Project: CRC City of Rochester - Rev
Pace Project No.: 10181134

METHOD BLANK: 1133389 Matrix: Water

Associated Lab Samples: 10181134001, 10181134002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
cis-1,3-Dichloropropene	ug/L	ND	4.0	01/30/12 09:53	
Dibromochloromethane	ug/L	ND	1.0	01/30/12 09:53	
Dibromomethane	ug/L	ND	4.0	01/30/12 09:53	
Dichlorodifluoromethane	ug/L	ND	1.0	01/30/12 09:53	
Dichlorofluoromethane	ug/L	ND	1.0	01/30/12 09:53	
Diethyl ether (Ethyl ether)	ug/L	ND	4.0	01/30/12 09:53	
Ethylbenzene	ug/L	ND	1.0	01/30/12 09:53	
Hexachloro-1,3-butadiene	ug/L	ND	5.0	01/30/12 09:53	
Isopropylbenzene (Cumene)	ug/L	ND	1.0	01/30/12 09:53	
m&p-Xylene	ug/L	ND	2.0	01/30/12 09:53	
Methyl-tert-butyl ether	ug/L	ND	1.0	01/30/12 09:53	
Methylene Chloride	ug/L	ND	10.0	01/30/12 09:53	
n-Butylbenzene	ug/L	ND	1.0	01/30/12 09:53	
n-Propylbenzene	ug/L	ND	1.0	01/30/12 09:53	
Naphthalene	ug/L	ND	4.0	01/30/12 09:53	
o-Xylene	ug/L	ND	1.0	01/30/12 09:53	
p-Isopropyltoluene	ug/L	ND	1.0	01/30/12 09:53	
sec-Butylbenzene	ug/L	ND	1.0	01/30/12 09:53	
Styrene	ug/L	ND	1.0	01/30/12 09:53	
tert-Butylbenzene	ug/L	ND	1.0	01/30/12 09:53	
Tetrachloroethene	ug/L	ND	1.0	01/30/12 09:53	
Tetrahydrofuran	ug/L	ND	10.0	01/30/12 09:53	
Toluene	ug/L	ND	1.0	01/30/12 09:53	
trans-1,2-Dichloroethene	ug/L	ND	1.0	01/30/12 09:53	
trans-1,3-Dichloropropene	ug/L	ND	4.0	01/30/12 09:53	
Trichloroethene	ug/L	ND	1.0	01/30/12 09:53	
Trichlorofluoromethane	ug/L	ND	1.0	01/30/12 09:53	
Vinyl chloride	ug/L	ND	0.40	01/30/12 09:53	
Xylene (Total)	ug/L	ND	3.0	01/30/12 09:53	
1,2-Dichloroethane-d4 (S)	%	101	75-125	01/30/12 09:53	
4-Bromofluorobenzene (S)	%	100	75-125	01/30/12 09:53	
Dibromofluoromethane (S)	%	100	75-125	01/30/12 09:53	
Toluene-d8 (S)	%	97	75-125	01/30/12 09:53	

LABORATORY CONTROL SAMPLE: 1133390

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	51.0	102	75-125	
1,1,1-Trichloroethane	ug/L	50	55.2	110	75-129	
1,1,2,2-Tetrachloroethane	ug/L	50	52.6	105	69-126	
1,1,2-Trichloroethane	ug/L	50	52.5	105	75-125	
1,1,2-Trichlorotrifluoroethane	ug/L	50	38.8	78	70-127	
1,1-Dichloroethane	ug/L	50	54.0	108	75-128	
1,1-Dichloroethene	ug/L	50	51.6	103	72-130	
1,1-Dichloropropene	ug/L	50	53.0	106	75-130	

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QUALITY CONTROL DATA

Project: CRC City of Rochester - Rev
Pace Project No.: 10181134

LABORATORY CONTROL SAMPLE: 1133390

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,3-Trichlorobenzene	ug/L	50	49.7	99	75-125	
1,2,3-Trichloropropane	ug/L	50	51.2	102	75-125	
1,2,4-Trichlorobenzene	ug/L	50	50.3	101	75-126	
1,2,4-Trimethylbenzene	ug/L	50	50.2	100	75-125	
1,2-Dibromo-3-chloropropane	ug/L	50	51.5	103	72-125	
1,2-Dibromoethane (EDB)	ug/L	50	53.7	107	75-125	
1,2-Dichlorobenzene	ug/L	50	49.1	98	75-125	
1,2-Dichloroethane	ug/L	50	55.0	110	75-125	
1,2-Dichloropropane	ug/L	50	51.7	103	75-125	
1,3,5-Trimethylbenzene	ug/L	50	50.1	100	75-125	
1,3-Dichlorobenzene	ug/L	50	50.0	100	75-125	
1,3-Dichloropropane	ug/L	50	53.2	106	75-125	
1,4-Dichlorobenzene	ug/L	50	50.6	101	75-125	
2,2-Dichloropropane	ug/L	50	47.6	95	75-133	
2-Butanone (MEK)	ug/L	50	51.3	103	62-132	
2-Chloroethylvinyl ether	ug/L	125	115	92	75-125	
2-Chlorotoluene	ug/L	50	51.9	104	74-126	
4-Chlorotoluene	ug/L	50	50.4	101	75-126	
4-Methyl-2-pentanone (MIBK)	ug/L	50	52.4	105	73-125	
Acetone	ug/L	125	148	118	35-150	
Acrolein	ug/L	500	409	82	62-143	
Acrylonitrile	ug/L	500	515	103	75-125	
Allyl chloride	ug/L	50	54.3	109	71-139	
Benzene	ug/L	50	51.9	104	74-126	
Bromobenzene	ug/L	50	51.2	102	75-125	
Bromochloromethane	ug/L	50	54.7	109	75-125	
Bromodichloromethane	ug/L	50	54.0	108	75-125	
Bromoform	ug/L	50	58.2	116	75-126	
Bromomethane	ug/L	50	37.9	76	59-146	
Carbon tetrachloride	ug/L	50	53.9	108	72-133	
Chlorobenzene	ug/L	50	50.7	101	75-125	
Chloroethane	ug/L	50	51.9	104	73-138	
Chloroform	ug/L	50	53.7	107	75-125	
Chloromethane	ug/L	50	44.2	88	68-129	
cis-1,2-Dichloroethene	ug/L	50	53.6	107	75-125	
cis-1,3-Dichloropropene	ug/L	50	52.0	104	75-125	
Dibromochloromethane	ug/L	50	55.5	111	75-125	
Dibromomethane	ug/L	50	54.2	108	75-125	
Dichlorodifluoromethane	ug/L	50	31.0	62	75-150	L0
Dichlorofluoromethane	ug/L	50	54.4	109	75-128	
Diethyl ether (Ethyl ether)	ug/L	50	50.3	101	75-125	
Ethylbenzene	ug/L	50	51.5	103	75-125	
Hexachloro-1,3-butadiene	ug/L	25	24.4	97	61-133	
Isopropylbenzene (Cumene)	ug/L	50	51.1	102	75-125	
m&p-Xylene	ug/L	100	105	105	75-125	
Methyl-tert-butyl ether	ug/L	50	53.0	106	75-125	
Methylene Chloride	ug/L	50	52.4	105	75-125	
n-Butylbenzene	ug/L	50	51.0	102	72-130	

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QUALITY CONTROL DATA

Project: CRC City of Rochester - Rev
Pace Project No.: 10181134

LABORATORY CONTROL SAMPLE: 1133390

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
n-Propylbenzene	ug/L	50	52.1	104	74-129	
Naphthalene	ug/L	50	48.9	98	75-125	
o-Xylene	ug/L	50	51.2	102	75-125	
p-Isopropyltoluene	ug/L	50	50.0	100	73-130	
sec-Butylbenzene	ug/L	50	50.2	100	71-131	
Styrene	ug/L	50	50.9	102	75-125	
tert-Butylbenzene	ug/L	50	50.3	101	73-129	
Tetrachloroethene	ug/L	50	51.5	103	74-127	
Tetrahydrofuran	ug/L	500	513	103	71-127	
Toluene	ug/L	50	50.7	101	75-125	
trans-1,2-Dichloroethene	ug/L	50	53.5	107	74-127	
trans-1,3-Dichloropropene	ug/L	50	51.0	102	75-125	
Trichloroethene	ug/L	50	53.0	106	75-125	
Trichlorofluoromethane	ug/L	50	46.9	94	75-150	
Vinyl chloride	ug/L	50	47.9	96	75-132	
Xylene (Total)	ug/L	150	156	104	75-125	
1,2-Dichloroethane-d4 (S)	%			100	75-125	
4-Bromofluorobenzene (S)	%			100	75-125	
Dibromofluoromethane (S)	%			101	75-125	
Toluene-d8 (S)	%			97	75-125	

MATRIX SPIKE SAMPLE: 1133624

Parameter	Units	10181134002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	50	55.1	110	75-126	
1,1,1-Trichloroethane	ug/L	ND	50	61.6	123	75-141	
1,1,2,2-Tetrachloroethane	ug/L	ND	50	56.0	112	68-129	
1,1,2-Trichloroethane	ug/L	ND	50	56.0	112	75-125	
1,1,2-Trichlorotrifluoroethane	ug/L	6.4	50	71.0	129	75-150	
1,1-Dichloroethane	ug/L	ND	50	58.0	116	75-139	
1,1-Dichloroethene	ug/L	ND	50	58.9	118	75-147	
1,1-Dichloropropene	ug/L	ND	50	60.0	120	75-150	
1,2,3-Trichlorobenzene	ug/L	ND	50	52.9	106	75-125	
1,2,3-Trichloropropane	ug/L	ND	50	53.3	107	71-125	
1,2,4-Trichlorobenzene	ug/L	ND	50	53.4	107	75-127	
1,2,4-Trimethylbenzene	ug/L	ND	50	53.7	107	74-133	
1,2-Dibromo-3-chloropropane	ug/L	ND	50	55.3	111	69-125	
1,2-Dibromoethane (EDB)	ug/L	ND	50	56.9	114	75-125	
1,2-Dichlorobenzene	ug/L	ND	50	51.7	103	75-125	
1,2-Dichloroethane	ug/L	ND	50	58.5	117	75-130	
1,2-Dichloropropane	ug/L	ND	50	54.5	109	75-129	
1,3,5-Trimethylbenzene	ug/L	ND	50	54.1	108	72-135	
1,3-Dichlorobenzene	ug/L	ND	50	53.6	107	75-125	
1,3-Dichloropropane	ug/L	ND	50	55.8	112	75-125	
1,4-Dichlorobenzene	ug/L	ND	50	53.6	107	75-125	
2,2-Dichloropropane	ug/L	ND	50	54.0	108	75-150	
2-Butanone (MEK)	ug/L	ND	50	51.2	101	56-126	

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QUALITY CONTROL DATA

Project: CRC City of Rochester - Rev
Pace Project No.: 10181134

MATRIX SPIKE SAMPLE: 1133624

Parameter	Units	10181134002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
2-Chloroethylvinyl ether	ug/L	ND	125	12.5	10	30-125	M1
2-Chlorotoluene	ug/L	ND	50	55.0	110	75-130	
4-Chlorotoluene	ug/L	ND	50	54.6	109	75-127	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	50	53.3	107	69-128	
Acetone	ug/L	ND	125	143	115	32-129	
Acrolein	ug/L	ND	500	395	79	44-150	
Acrylonitrile	ug/L	ND	500	524	105	70-130	
Allyl chloride	ug/L	ND	50	60.0	120	61-150	
Benzene	ug/L	ND	50	55.8	112	75-135	
Bromobenzene	ug/L	ND	50	54.5	109	75-125	
Bromochloromethane	ug/L	ND	50	58.0	116	75-128	
Bromodichloromethane	ug/L	ND	50	56.8	114	75-127	
Bromoform	ug/L	ND	50	61.6	123	76-125	
Bromomethane	ug/L	ND	50	45.7	91	64-150	
Carbon tetrachloride	ug/L	ND	50	63.2	126	75-148	
Chlorobenzene	ug/L	ND	50	54.2	108	75-125	
Chloroethane	ug/L	ND	50	52.8	106	75-146	
Chloroform	ug/L	ND	50	57.9	116	75-131	
Chloromethane	ug/L	7.8	50	55.4	95	73-141	
cis-1,2-Dichloroethene	ug/L	ND	50	56.9	114	75-136	
cis-1,3-Dichloropropene	ug/L	ND	50	54.9	110	75-130	
Dibromochloromethane	ug/L	ND	50	59.2	118	75-125	
Dibromomethane	ug/L	ND	50	56.7	113	75-125	
Dichlorodifluoromethane	ug/L	ND	50	48.9	98	75-150	
Dichlorofluoromethane	ug/L	ND	50	60.2	120	75-140	
Diethyl ether (Ethyl ether)	ug/L	ND	50	54.7	109	75-129	
Ethylbenzene	ug/L	ND	50	54.9	110	75-129	
Hexachloro-1,3-butadiene	ug/L	ND	25	27.6	110	72-139	
Isopropylbenzene (Cumene)	ug/L	ND	50	55.3	111	75-131	
m&p-Xylene	ug/L	ND	100	113	113	75-129	
Methyl-tert-butyl ether	ug/L	ND	50	56.0	112	75-131	
Methylene Chloride	ug/L	ND	50	54.6	109	74-125	
n-Butylbenzene	ug/L	ND	50	55.1	110	75-138	
n-Propylbenzene	ug/L	ND	50	56.1	112	75-134	
Naphthalene	ug/L	ND	50	51.5	103	75-125	
o-Xylene	ug/L	ND	50	55.1	110	75-128	
p-Isopropyltoluene	ug/L	ND	50	54.3	109	75-136	
sec-Butylbenzene	ug/L	ND	50	55.5	111	75-135	
Styrene	ug/L	ND	50	54.4	109	59-144	
tert-Butylbenzene	ug/L	ND	50	54.6	109	75-133	
Tetrachloroethene	ug/L	45.1	50	105	119	75-136	
Tetrahydrofuran	ug/L	ND	500	518	104	64-134	
Toluene	ug/L	ND	50	54.8	110	75-127	
trans-1,2-Dichloroethene	ug/L	ND	50	59.1	118	75-142	
trans-1,3-Dichloropropene	ug/L	ND	50	54.9	110	74-129	
Trichloroethene	ug/L	ND	50	56.9	114	75-136	
Trichlorofluoromethane	ug/L	ND	50	58.5	117	75-150	
Vinyl chloride	ug/L	ND	50	53.6	107	75-150	

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QUALITY CONTROL DATA

Project: CRC City of Rochester - Rev
Pace Project No.: 10181134

MATRIX SPIKE SAMPLE: 1133624

Parameter	Units	10181134002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Xylene (Total)	ug/L	ND	150	168	112	75-128	
1,2-Dichloroethane-d4 (S)	%				100	75-125	
4-Bromofluorobenzene (S)	%				101	75-125	
Dibromofluoromethane (S)	%				100	75-125	
Toluene-d8 (S)	%				98	75-125	

SAMPLE DUPLICATE: 1133625

Parameter	Units	10181498001 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	ND		30	
2,2-Dichloropropane	ug/L	ND	ND		30	
2-Butanone (MEK)	ug/L	ND	ND		30	
2-Chloroethylvinyl ether	ug/L	ND	ND		30	
2-Chlorotoluene	ug/L	ND	ND		30	
4-Chlorotoluene	ug/L	ND	ND		30	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	ND		30	
Acetone	ug/L	ND	ND		30	
Acrolein	ug/L	ND	ND		30	
Acrylonitrile	ug/L	ND	ND		30	
Allyl chloride	ug/L	ND	ND		30	
Benzene	ug/L	ND	ND		30	
Bromobenzene	ug/L	ND	ND		30	
Bromochloromethane	ug/L	ND	ND		30	
Bromodichloromethane	ug/L	ND	ND		30	
Bromoform	ug/L	ND	ND		30	
Bromomethane	ug/L	ND	ND		30	
Carbon tetrachloride	ug/L	ND	ND		30	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: CRC City of Rochester - Rev
Pace Project No.: 10181134

SAMPLE DUPLICATE: 1133625

Parameter	Units	10181498001 Result	Dup Result	RPD	Max RPD	Qualifiers
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	
m&p-Xylene	ug/L		ND		30	
Methyl-tert-butyl ether	ug/L	1.2	1.1	3	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		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	9.8J		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)	%	103	104	2		
4-Bromofluorobenzene (S)	%	101	98	3		
Dibromofluoromethane (S)	%	100	101	1		
Toluene-d8 (S)	%	95	96	.8		

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QUALIFIERS

Project: CRC City of Rochester - Rev
Pace Project No.: 10181134

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.

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.

WORKORDER QUALIFIERS

WO: 10181134

[1]	Samples were received outside of the recommended temperature range of 0-6 degrees Celsius. The samples were received from the field on ice, indicating the cool down process had begun.

ANALYTE QUALIFIERS

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

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: CRC City of Rochester - Rev
Pace Project No.: 10181134

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10181134001	**AS-Influent**	EPA 624	MSV/19167		
10181134002	**AS-Effluent**	EPA 624	MSV/19167		

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1123

CHAIN-OF-CUSTODY / Analytical Request Document

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

1014 1134

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
Requested Due Date/TAT: Normal	

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 ☐ OTHER_____

SITE LOCATION ☐ GA ☐ IL ☐ IN ☐ MI ☐ NC ☐ OH ☐ SC ☐ WI ☐ OTHER____

Section D Required Client Information

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

Valid Matrix Codes

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

ITEM #	SAMPLE ID	MATRIX CODE	SAMPLE TYPE G=GRAB C=COMP	COLLECTED COMPOSITE START DATE	COLLECTED COMPOSITE START TIME	COLLECTED COMPOSITE END/GRAB DATE	COLLECTED COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	#OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analyses Requested: EPA 624	Filtered (Y/N)	Pace Project Number / Lab I.D.
1	AS-Influent	W	G	1/20/12	13:00				3									X		001
2	AS-Effluent	W	G	1/20/12	13:35				3									X		002
3																				
4																				
5																				
6																				
7																				
8																				
5																				
6																				
7																				
8																				

Additional Comments:

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
	1/20/12			1-20-12	1754

SAMPLE CONDITIONS

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

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Eric Gabrielson

SIGNATURE of SAMPLER:

DATE Signed (MM / DD / YY): 1/20/12

F:\PROJECTS\Crc-City of Rochester\Analytical Reports\coc 1-20-12 system.XLS

E-File,(ALLQ020rev.3,31Mar05), 13Jun2005

Pace Analytical®	Document Name: **Sample Condition Upon Receipt Form**	Revised Date: 02Jun2011
	Document Number: **F-L-213 Rev.01**	Page 1 of 1
		Issuing Authority: Pace Minnesota Quality Office

Sample Condition Upon Receipt

Client Name: Landmark **Project #** 10181134

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

Tracking #: _____

Optional: Proj. Due Date: Proj. Name:

Custody Seal on Cooler/Box Present: ☐ yes ☒ no Seals intact: ☐ yes ☒ no

Packing Material: ☐ Bubble Wrap ☒ Bubble Bags ☐ None ☐ Other _____ Temp Blank: Yes ____ No X

Thermometer Used 80344042 or 80512447 **Type of Ice:** (Wet) Blue None ☒ Samples on ice, cooling process has begun

Cooler Temperature 10.3 **Biological Tissue is Frozen:** Yes No

Temp should be above freezing to 6°C **Comments:**

Date and initials of person examining contents: JE 1/20/12

Chain of Custody Present:	☒Yes ☐No ☐N/A	1.
Chain of Custody Filled Out:	☒Yes ☐No ☐N/A	2.
Chain of Custody Relinquished:	☒Yes ☐No ☐N/A	3.
Sampler Name & Signature on COC:	☒Yes ☐No ☐N/A	4.
Samples Arrived within Hold Time:	☒Yes ☐No ☐N/A	5.
Short Hold Time Analysis (<72hr):	☐Yes ☒No ☐N/A	6.
Rush Turn Around Time Requested:	☐Yes ☒No ☐N/A	7.
Sufficient Volume:	☒Yes ☐No ☐N/A	8.
Correct Containers Used:	☒Yes ☐No ☐N/A	9.
-Pace Containers Used:	☒Yes ☐No ☐N/A	
Containers Intact:	☒Yes ☐No ☐N/A	10.
Filtered volume received for Dissolved tests	☐Yes ☒No ☐N/A	11.
Sample Labels match COC: -Includes date/time/ID/Analysis Matrix: WT	☒Yes ☐No ☐N/A	12.
All containers needing acid/base preservation have been checked. Noncompliance are noted in 13.	☐Yes ☐No ☒N/A	13. ☐ HNO3 ☐ H2SO4 ☐ NaOH ☐ HCl Samp #
All containers needing preservation are found to be in compliance with EPA recommendation.	☐Yes ☐No ☒N/A	
Exceptions: VOA,Coliform, TOC, Oil and Grease, WI-DRO (water)	☐Yes ☒No	Initial when completed / Lot # of added preservative
Samples checked for dechlorination:	☐Yes ☒No ☐N/A	14.
Headspace in VOA Vials (>6mm):	☐Yes ☒No ☐N/A	15.
Trip Blank Present:	☐Yes ☒No ☐N/A	16.
Trip Blank Custody Seals Present	☐Yes ☒No ☐N/A	
Pace Trip Blank Lot # (if purchased): _____		

Client Notification/ Resolution: Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: Temp ok, Received Same day as Sampled

Project Manager Review: Shawn V Davis **Date:** 1-20-12

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

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(612)607-1700

February 21, 2012

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

RE: Project: City of Rochester - Rev
Pace Project No.: 10181659

Dear Mr. Skramstad:
Enclosed are the analytical results for sample(s) received by the laboratory on January 27, 2012. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

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

Sincerely,

Carolynne Trout

Carolynne Trout

carolynne.trout@pacelabs.com
Project Manager

Enclosures

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CERTIFICATIONS

Project: City of Rochester - Rev
Pace Project No.: 10181659

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
EPA Region 8 Certification #: Pace
Florida/NELAP Certification #: E87605
Georgia Certification #: 959
Idaho Certification #: MN00064
Illinois Certification #: 200011
Iowa Certification #: 368
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 Mexico Certification #: Pace
New York Certification #: 11647
North Carolina Certification #: 530
North Dakota Certification #: R-036
North Dakota Certification #: R-036A
Ohio VAP Certification #: CL101
Oklahoma Certification #: D9921
Oklahoma Certification #: 9507
Oregon Certification #: MN200001
Pennsylvania Certification #: 68-00563
Puerto Rico Certification
Tennessee Certification #: 02818
Texas Certification #: T104704192
Washington Certification #: C754
Wisconsin Certification #: 999407970

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SAMPLE SUMMARY

Project: City of Rochester - Rev
Pace Project No.: 10181659

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10181659001	**AS- Influent**	Water	01/27/12 09:30	01/27/12 16:47
10181659002	**AS- Effluent**	Water	01/27/12 09:35	01/27/12 16:47

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SAMPLE ANALYTE COUNT

Project: City of Rochester - Rev
Pace Project No.: 10181659

Lab ID	Sample ID	Method	Analysts	Analytes Reported
10181659001	**AS- Influent**	EPA 624	SE	83
10181659002	**AS- Effluent**	EPA 624	SE	83

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

ANALYTICAL RESULTS

Project: City of Rochester - Rev
Pace Project No.: 10181659

Sample: AS- Influent **Lab ID: 10181659001** Collected: 01/27/12 09:30 Received: 01/27/12 16:47 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		01/30/12 11:11	67-64-1	
Acrolein	ND	ug/L	10.0	1		01/30/12 11:11	107-02-8	
Acrylonitrile	ND	ug/L	10.0	1		01/30/12 11:11	107-13-1	
Allyl chloride	ND	ug/L	4.0	1		01/30/12 11:11	107-05-1	
Benzene	ND	ug/L	1.0	1		01/30/12 11:11	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		01/30/12 11:11	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		01/30/12 11:11	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		01/30/12 11:11	75-27-4	
Bromoform	ND	ug/L	4.0	1		01/30/12 11:11	75-25-2	
Bromomethane	ND	ug/L	4.0	1		01/30/12 11:11	74-83-9	
2-Butanone (MEK)	ND	ug/L	4.0	1		01/30/12 11:11	78-93-3	
n-Butylbenzene	ND	ug/L	1.0	1		01/30/12 11:11	104-51-8	
sec-Butylbenzene	ND	ug/L	1.0	1		01/30/12 11:11	135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	1		01/30/12 11:11	98-06-6	
Carbon disulfide	ND	ug/L	1.0	1		01/30/12 11:11	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	1		01/30/12 11:11	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		01/30/12 11:11	108-90-7	
Chloroethane	ND	ug/L	1.0	1		01/30/12 11:11	75-00-3	
2-Chloroethylvinyl ether	ND	ug/L	10.0	1		01/30/12 11:11	110-75-8	
Chloroform	ND	ug/L	1.0	1		01/30/12 11:11	67-66-3	
Chloromethane	ND	ug/L	4.0	1		01/30/12 11:11	74-87-3	
Chloroprene	ND	ug/L	1.0	1		01/30/12 11:11	126-99-8	
2-Chlorotoluene	ND	ug/L	1.0	1		01/30/12 11:11	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		01/30/12 11:11	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	4.0	1		01/30/12 11:11	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		01/30/12 11:11	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		01/30/12 11:11	106-93-4	
Dibromomethane	ND	ug/L	4.0	1		01/30/12 11:11	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		01/30/12 11:11	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		01/30/12 11:11	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		01/30/12 11:11	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		01/30/12 11:11	75-71-8	L2
1,1-Dichloroethane	ND	ug/L	1.0	1		01/30/12 11:11	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		01/30/12 11:11	107-06-2	
1,2-Dichloroethene (Total)	ND	ug/L	2.0	1		01/30/12 11:11	540-59-0	
1,1-Dichloroethene	ND	ug/L	1.0	1		01/30/12 11:11	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		01/30/12 11:11	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		01/30/12 11:11	156-60-5	
Dichlorofluoromethane	ND	ug/L	1.0	1		01/30/12 11:11	75-43-4	
1,2-Dichloropropane	ND	ug/L	4.0	1		01/30/12 11:11	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		01/30/12 11:11	142-28-9	
2,2-Dichloropropane	ND	ug/L	4.0	1		01/30/12 11:11	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		01/30/12 11:11	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	4.0	1		01/30/12 11:11	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	4.0	1		01/30/12 11:11	10061-02-6	
Diethyl ether (Ethyl ether)	ND	ug/L	4.0	1		01/30/12 11:11	60-29-7	
Ethylbenzene	ND	ug/L	1.0	1		01/30/12 11:11	100-41-4	

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ANALYTICAL RESULTS

Project: City of Rochester - Rev
Pace Project No.: 10181659

Sample: AS- Influent **Lab ID: 10181659001** Collected: 01/27/12 09:30 Received: 01/27/12 16:47 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		01/30/12 11:11	87-68-3	
2-Hexanone	ND	ug/L	4.0	1		01/30/12 11:11	591-78-6	
Iodomethane	ND	ug/L	4.0	1		01/30/12 11:11	74-88-4	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		01/30/12 11:11	98-82-8	
p-Isopropyltoluene	ND	ug/L	1.0	1		01/30/12 11:11	99-87-6	
Methylene Chloride	ND	ug/L	10.0	1		01/30/12 11:11	75-09-2	
2-Methylnaphthalene	ND	ug/L	5.0	1		01/30/12 11:11	91-57-6	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	4.0	1		01/30/12 11:11	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		01/30/12 11:11	1634-04-4	
Naphthalene	ND	ug/L	4.0	1		01/30/12 11:11	91-20-3	
n-Propylbenzene	ND	ug/L	1.0	1		01/30/12 11:11	103-65-1	
Styrene	ND	ug/L	1.0	1		01/30/12 11:11	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		01/30/12 11:11	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		01/30/12 11:11	79-34-5	
Tetrachloroethene	**76.3**	ug/L	1.0	1		01/30/12 11:11	127-18-4	
Tetrahydrofuran	ND	ug/L	10.0	1		01/30/12 11:11	109-99-9	
Toluene	ND	ug/L	1.0	1		01/30/12 11:11	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		01/30/12 11:11	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		01/30/12 11:11	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		01/30/12 11:11	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		01/30/12 11:11	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		01/30/12 11:11	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		01/30/12 11:11	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	4.0	1		01/30/12 11:11	96-18-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/L	1.0	1		01/30/12 11:11	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1		01/30/12 11:11	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1		01/30/12 11:11	108-67-8	
Vinyl acetate	ND	ug/L	10.0	1		01/30/12 11:11	108-05-4	
Vinyl chloride	ND	ug/L	0.40	1		01/30/12 11:11	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		01/30/12 11:11	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		01/30/12 11:11	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		01/30/12 11:11	95-47-6	
Surrogates								
Dibromofluoromethane (S)	100	%	75-125	1		01/30/12 11:11	1868-53-7	
1,2-Dichloroethane-d4 (S)	103	%	75-125	1		01/30/12 11:11	17060-07-0	
Toluene-d8 (S)	96	%	75-125	1		01/30/12 11:11	2037-26-5	
4-Bromofluorobenzene (S)	99	%	75-125	1		01/30/12 11:11	460-00-4	

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ANALYTICAL RESULTS

Project: City of Rochester - Rev
Pace Project No.: 10181659

Sample: AS- Effluent **Lab ID: 10181659002** Collected: 01/27/12 09:35 Received: 01/27/12 16:47 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		01/30/12 11:24	67-64-1	
Acrolein	ND	ug/L	10.0	1		01/30/12 11:24	107-02-8	
Acrylonitrile	ND	ug/L	10.0	1		01/30/12 11:24	107-13-1	
Allyl chloride	ND	ug/L	4.0	1		01/30/12 11:24	107-05-1	
Benzene	ND	ug/L	1.0	1		01/30/12 11:24	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		01/30/12 11:24	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		01/30/12 11:24	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		01/30/12 11:24	75-27-4	
Bromoform	ND	ug/L	4.0	1		01/30/12 11:24	75-25-2	
Bromomethane	ND	ug/L	4.0	1		01/30/12 11:24	74-83-9	
2-Butanone (MEK)	ND	ug/L	4.0	1		01/30/12 11:24	78-93-3	
n-Butylbenzene	ND	ug/L	1.0	1		01/30/12 11:24	104-51-8	
sec-Butylbenzene	ND	ug/L	1.0	1		01/30/12 11:24	135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	1		01/30/12 11:24	98-06-6	
Carbon disulfide	ND	ug/L	1.0	1		01/30/12 11:24	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	1		01/30/12 11:24	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		01/30/12 11:24	108-90-7	
Chloroethane	ND	ug/L	1.0	1		01/30/12 11:24	75-00-3	
2-Chloroethylvinyl ether	ND	ug/L	10.0	1		01/30/12 11:24	110-75-8	
Chloroform	ND	ug/L	1.0	1		01/30/12 11:24	67-66-3	
Chloromethane	ND	ug/L	4.0	1		01/30/12 11:24	74-87-3	
Chloroprene	ND	ug/L	1.0	1		01/30/12 11:24	126-99-8	
2-Chlorotoluene	ND	ug/L	1.0	1		01/30/12 11:24	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		01/30/12 11:24	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	4.0	1		01/30/12 11:24	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		01/30/12 11:24	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		01/30/12 11:24	106-93-4	
Dibromomethane	ND	ug/L	4.0	1		01/30/12 11:24	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		01/30/12 11:24	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		01/30/12 11:24	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		01/30/12 11:24	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		01/30/12 11:24	75-71-8	L2
1,1-Dichloroethane	ND	ug/L	1.0	1		01/30/12 11:24	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		01/30/12 11:24	107-06-2	
1,2-Dichloroethene (Total)	ND	ug/L	2.0	1		01/30/12 11:24	540-59-0	
1,1-Dichloroethene	ND	ug/L	1.0	1		01/30/12 11:24	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		01/30/12 11:24	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		01/30/12 11:24	156-60-5	
Dichlorofluoromethane	ND	ug/L	1.0	1		01/30/12 11:24	75-43-4	
1,2-Dichloropropane	ND	ug/L	4.0	1		01/30/12 11:24	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		01/30/12 11:24	142-28-9	
2,2-Dichloropropane	ND	ug/L	4.0	1		01/30/12 11:24	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		01/30/12 11:24	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	4.0	1		01/30/12 11:24	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	4.0	1		01/30/12 11:24	10061-02-6	
Diethyl ether (Ethyl ether)	ND	ug/L	4.0	1		01/30/12 11:24	60-29-7	
Ethylbenzene	ND	ug/L	1.0	1		01/30/12 11:24	100-41-4	

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ANALYTICAL RESULTS

Project: City of Rochester - Rev
Pace Project No.: 10181659

Sample: AS- Effluent **Lab ID: 10181659002** Collected: 01/27/12 09:35 Received: 01/27/12 16:47 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		01/30/12 11:24	87-68-3	
2-Hexanone	ND	ug/L	4.0	1		01/30/12 11:24	591-78-6	
Iodomethane	ND	ug/L	4.0	1		01/30/12 11:24	74-88-4	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		01/30/12 11:24	98-82-8	
p-Isopropyltoluene	ND	ug/L	1.0	1		01/30/12 11:24	99-87-6	
Methylene Chloride	ND	ug/L	10.0	1		01/30/12 11:24	75-09-2	
2-Methylnaphthalene	ND	ug/L	5.0	1		01/30/12 11:24	91-57-6	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	4.0	1		01/30/12 11:24	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		01/30/12 11:24	1634-04-4	
Naphthalene	ND	ug/L	4.0	1		01/30/12 11:24	91-20-3	
n-Propylbenzene	ND	ug/L	1.0	1		01/30/12 11:24	103-65-1	
Styrene	ND	ug/L	1.0	1		01/30/12 11:24	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		01/30/12 11:24	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		01/30/12 11:24	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		01/30/12 11:24	127-18-4	
Tetrahydrofuran	ND	ug/L	10.0	1		01/30/12 11:24	109-99-9	
Toluene	ND	ug/L	1.0	1		01/30/12 11:24	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		01/30/12 11:24	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		01/30/12 11:24	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		01/30/12 11:24	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		01/30/12 11:24	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		01/30/12 11:24	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		01/30/12 11:24	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	4.0	1		01/30/12 11:24	96-18-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/L	1.0	1		01/30/12 11:24	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1		01/30/12 11:24	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1		01/30/12 11:24	108-67-8	
Vinyl acetate	ND	ug/L	10.0	1		01/30/12 11:24	108-05-4	
Vinyl chloride	ND	ug/L	0.40	1		01/30/12 11:24	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		01/30/12 11:24	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		01/30/12 11:24	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		01/30/12 11:24	95-47-6	
Surrogates								
Dibromofluoromethane (S)	100	%	75-125	1		01/30/12 11:24	1868-53-7	
1,2-Dichloroethane-d4 (S)	103	%	75-125	1		01/30/12 11:24	17060-07-0	
Toluene-d8 (S)	97	%	75-125	1		01/30/12 11:24	2037-26-5	
4-Bromofluorobenzene (S)	99	%	75-125	1		01/30/12 11:24	460-00-4	

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QUALITY CONTROL DATA

Project: City of Rochester - Rev
Pace Project No.: 10181659

QC Batch: MSV/19167 Analysis Method: EPA 624
QC Batch Method: EPA 624 Analysis Description: 624 MSV
Associated Lab Samples: 10181659001, 10181659002

METHOD BLANK: 1133389 Matrix: Water
Associated Lab Samples: 10181659001, 10181659002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	1.0	01/30/12 09:53	
1,1,1-Trichloroethane	ug/L	ND	1.0	01/30/12 09:53	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	01/30/12 09:53	
1,1,2-Trichloroethane	ug/L	ND	1.0	01/30/12 09:53	
1,1,2-Trichlorotrifluoroethane	ug/L	ND	1.0	01/30/12 09:53	
1,1-Dichloroethane	ug/L	ND	1.0	01/30/12 09:53	
1,1-Dichloroethene	ug/L	ND	1.0	01/30/12 09:53	
1,1-Dichloropropene	ug/L	ND	1.0	01/30/12 09:53	
1,2,3-Trichlorobenzene	ug/L	ND	1.0	01/30/12 09:53	
1,2,3-Trichloropropane	ug/L	ND	4.0	01/30/12 09:53	
1,2,4-Trichlorobenzene	ug/L	ND	1.0	01/30/12 09:53	
1,2,4-Trimethylbenzene	ug/L	ND	1.0	01/30/12 09:53	
1,2-Dibromo-3-chloropropane	ug/L	ND	4.0	01/30/12 09:53	
1,2-Dibromoethane (EDB)	ug/L	ND	1.0	01/30/12 09:53	
1,2-Dichlorobenzene	ug/L	ND	1.0	01/30/12 09:53	
1,2-Dichloroethane	ug/L	ND	1.0	01/30/12 09:53	
1,2-Dichloropropane	ug/L	ND	4.0	01/30/12 09:53	
1,3,5-Trimethylbenzene	ug/L	ND	1.0	01/30/12 09:53	
1,3-Dichlorobenzene	ug/L	ND	1.0	01/30/12 09:53	
1,3-Dichloropropane	ug/L	ND	1.0	01/30/12 09:53	
1,4-Dichlorobenzene	ug/L	ND	1.0	01/30/12 09:53	
2,2-Dichloropropane	ug/L	ND	4.0	01/30/12 09:53	
2-Butanone (MEK)	ug/L	ND	4.0	01/30/12 09:53	
2-Chloroethylvinyl ether	ug/L	ND	10.0	01/30/12 09:53	
2-Chlorotoluene	ug/L	ND	1.0	01/30/12 09:53	
4-Chlorotoluene	ug/L	ND	1.0	01/30/12 09:53	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	4.0	01/30/12 09:53	
Acetone	ug/L	ND	25.0	01/30/12 09:53	
Acrolein	ug/L	ND	10.0	01/30/12 09:53	
Acrylonitrile	ug/L	ND	10.0	01/30/12 09:53	
Allyl chloride	ug/L	ND	4.0	01/30/12 09:53	
Benzene	ug/L	ND	1.0	01/30/12 09:53	
Bromobenzene	ug/L	ND	1.0	01/30/12 09:53	
Bromochloromethane	ug/L	ND	1.0	01/30/12 09:53	
Bromodichloromethane	ug/L	ND	1.0	01/30/12 09:53	
Bromoform	ug/L	ND	4.0	01/30/12 09:53	
Bromomethane	ug/L	ND	4.0	01/30/12 09:53	
Carbon tetrachloride	ug/L	ND	1.0	01/30/12 09:53	
Chlorobenzene	ug/L	ND	1.0	01/30/12 09:53	
Chloroethane	ug/L	ND	1.0	01/30/12 09:53	
Chloroform	ug/L	ND	1.0	01/30/12 09:53	
Chloromethane	ug/L	ND	4.0	01/30/12 09:53	
cis-1,2-Dichloroethene	ug/L	ND	1.0	01/30/12 09:53	

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QUALITY CONTROL DATA

Project: City of Rochester - Rev
Pace Project No.: 10181659

METHOD BLANK: 1133389 Matrix: Water

Associated Lab Samples: 10181659001, 10181659002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
cis-1,3-Dichloropropene	ug/L	ND	4.0	01/30/12 09:53	
Dibromochloromethane	ug/L	ND	1.0	01/30/12 09:53	
Dibromomethane	ug/L	ND	4.0	01/30/12 09:53	
Dichlorodifluoromethane	ug/L	ND	1.0	01/30/12 09:53	
Dichlorofluoromethane	ug/L	ND	1.0	01/30/12 09:53	
Diethyl ether (Ethyl ether)	ug/L	ND	4.0	01/30/12 09:53	
Ethylbenzene	ug/L	ND	1.0	01/30/12 09:53	
Hexachloro-1,3-butadiene	ug/L	ND	5.0	01/30/12 09:53	
Isopropylbenzene (Cumene)	ug/L	ND	1.0	01/30/12 09:53	
m&p-Xylene	ug/L	ND	2.0	01/30/12 09:53	
Methyl-tert-butyl ether	ug/L	ND	1.0	01/30/12 09:53	
Methylene Chloride	ug/L	ND	10.0	01/30/12 09:53	
n-Butylbenzene	ug/L	ND	1.0	01/30/12 09:53	
n-Propylbenzene	ug/L	ND	1.0	01/30/12 09:53	
Naphthalene	ug/L	ND	4.0	01/30/12 09:53	
o-Xylene	ug/L	ND	1.0	01/30/12 09:53	
p-Isopropyltoluene	ug/L	ND	1.0	01/30/12 09:53	
sec-Butylbenzene	ug/L	ND	1.0	01/30/12 09:53	
Styrene	ug/L	ND	1.0	01/30/12 09:53	
tert-Butylbenzene	ug/L	ND	1.0	01/30/12 09:53	
Tetrachloroethene	ug/L	ND	1.0	01/30/12 09:53	
Tetrahydrofuran	ug/L	ND	10.0	01/30/12 09:53	
Toluene	ug/L	ND	1.0	01/30/12 09:53	
trans-1,2-Dichloroethene	ug/L	ND	1.0	01/30/12 09:53	
trans-1,3-Dichloropropene	ug/L	ND	4.0	01/30/12 09:53	
Trichloroethene	ug/L	ND	1.0	01/30/12 09:53	
Trichlorofluoromethane	ug/L	ND	1.0	01/30/12 09:53	
Vinyl chloride	ug/L	ND	0.40	01/30/12 09:53	
Xylene (Total)	ug/L	ND	3.0	01/30/12 09:53	
1,2-Dichloroethane-d4 (S)	%	101	75-125	01/30/12 09:53	
4-Bromofluorobenzene (S)	%	100	75-125	01/30/12 09:53	
Dibromofluoromethane (S)	%	100	75-125	01/30/12 09:53	
Toluene-d8 (S)	%	97	75-125	01/30/12 09:53	

LABORATORY CONTROL SAMPLE: 1133390

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	51.0	102	75-125	
1,1,1-Trichloroethane	ug/L	50	55.2	110	75-129	
1,1,2,2-Tetrachloroethane	ug/L	50	52.6	105	69-126	
1,1,2-Trichloroethane	ug/L	50	52.5	105	75-125	
1,1,2-Trichlorotrifluoroethane	ug/L	50	38.8	78	70-127	
1,1-Dichloroethane	ug/L	50	54.0	108	75-128	
1,1-Dichloroethene	ug/L	50	51.6	103	72-130	
1,1-Dichloropropene	ug/L	50	53.0	106	75-130	

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QUALITY CONTROL DATA

Project: City of Rochester - Rev
Pace Project No.: 10181659

LABORATORY CONTROL SAMPLE: 1133390

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,3-Trichlorobenzene	ug/L	50	49.7	99	75-125	
1,2,3-Trichloropropane	ug/L	50	51.2	102	75-125	
1,2,4-Trichlorobenzene	ug/L	50	50.3	101	75-126	
1,2,4-Trimethylbenzene	ug/L	50	50.2	100	75-125	
1,2-Dibromo-3-chloropropane	ug/L	50	51.5	103	72-125	
1,2-Dibromoethane (EDB)	ug/L	50	53.7	107	75-125	
1,2-Dichlorobenzene	ug/L	50	49.1	98	75-125	
1,2-Dichloroethane	ug/L	50	55.0	110	75-125	
1,2-Dichloropropane	ug/L	50	51.7	103	75-125	
1,3,5-Trimethylbenzene	ug/L	50	50.1	100	75-125	
1,3-Dichlorobenzene	ug/L	50	50.0	100	75-125	
1,3-Dichloropropane	ug/L	50	53.2	106	75-125	
1,4-Dichlorobenzene	ug/L	50	50.6	101	75-125	
2,2-Dichloropropane	ug/L	50	47.6	95	75-133	
2-Butanone (MEK)	ug/L	50	51.3	103	62-132	
2-Chloroethylvinyl ether	ug/L	125	115	92	75-125	
2-Chlorotoluene	ug/L	50	51.9	104	74-126	
4-Chlorotoluene	ug/L	50	50.4	101	75-126	
4-Methyl-2-pentanone (MIBK)	ug/L	50	52.4	105	73-125	
Acetone	ug/L	125	148	118	35-150	
Acrolein	ug/L	500	409	82	62-143	
Acrylonitrile	ug/L	500	515	103	75-125	
Allyl chloride	ug/L	50	54.3	109	71-139	
Benzene	ug/L	50	51.9	104	74-126	
Bromobenzene	ug/L	50	51.2	102	75-125	
Bromochloromethane	ug/L	50	54.7	109	75-125	
Bromodichloromethane	ug/L	50	54.0	108	75-125	
Bromoform	ug/L	50	58.2	116	75-126	
Bromomethane	ug/L	50	37.9	76	59-146	
Carbon tetrachloride	ug/L	50	53.9	108	72-133	
Chlorobenzene	ug/L	50	50.7	101	75-125	
Chloroethane	ug/L	50	51.9	104	73-138	
Chloroform	ug/L	50	53.7	107	75-125	
Chloromethane	ug/L	50	44.2	88	68-129	
cis-1,2-Dichloroethene	ug/L	50	53.6	107	75-125	
cis-1,3-Dichloropropene	ug/L	50	52.0	104	75-125	
Dibromochloromethane	ug/L	50	55.5	111	75-125	
Dibromomethane	ug/L	50	54.2	108	75-125	
Dichlorodifluoromethane	ug/L	50	31.0	62	75-150	L0
Dichlorofluoromethane	ug/L	50	54.4	109	75-128	
Diethyl ether (Ethyl ether)	ug/L	50	50.3	101	75-125	
Ethylbenzene	ug/L	50	51.5	103	75-125	
Hexachloro-1,3-butadiene	ug/L	25	24.4	97	61-133	
Isopropylbenzene (Cumene)	ug/L	50	51.1	102	75-125	
m&p-Xylene	ug/L	100	105	105	75-125	
Methyl-tert-butyl ether	ug/L	50	53.0	106	75-125	
Methylene Chloride	ug/L	50	52.4	105	75-125	
n-Butylbenzene	ug/L	50	51.0	102	72-130	

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QUALITY CONTROL DATA

Project: City of Rochester - Rev
Pace Project No.: 10181659

LABORATORY CONTROL SAMPLE: 1133390

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
n-Propylbenzene	ug/L	50	52.1	104	74-129	
Naphthalene	ug/L	50	48.9	98	75-125	
o-Xylene	ug/L	50	51.2	102	75-125	
p-Isopropyltoluene	ug/L	50	50.0	100	73-130	
sec-Butylbenzene	ug/L	50	50.2	100	71-131	
Styrene	ug/L	50	50.9	102	75-125	
tert-Butylbenzene	ug/L	50	50.3	101	73-129	
Tetrachloroethene	ug/L	50	51.5	103	74-127	
Tetrahydrofuran	ug/L	500	513	103	71-127	
Toluene	ug/L	50	50.7	101	75-125	
trans-1,2-Dichloroethene	ug/L	50	53.5	107	74-127	
trans-1,3-Dichloropropene	ug/L	50	51.0	102	75-125	
Trichloroethene	ug/L	50	53.0	106	75-125	
Trichlorofluoromethane	ug/L	50	46.9	94	75-150	
Vinyl chloride	ug/L	50	47.9	96	75-132	
Xylene (Total)	ug/L	150	156	104	75-125	
1,2-Dichloroethane-d4 (S)	%			100	75-125	
4-Bromofluorobenzene (S)	%			100	75-125	
Dibromofluoromethane (S)	%			101	75-125	
Toluene-d8 (S)	%			97	75-125	

MATRIX SPIKE SAMPLE: 1133624

Parameter	Units	10181134002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	50	55.1	110	75-126	
1,1,1-Trichloroethane	ug/L	ND	50	61.6	123	75-141	
1,1,2,2-Tetrachloroethane	ug/L	ND	50	56.0	112	68-129	
1,1,2-Trichloroethane	ug/L	ND	50	56.0	112	75-125	
1,1,2-Trichlorotrifluoroethane	ug/L	6.4	50	71.0	129	75-150	
1,1-Dichloroethane	ug/L	ND	50	58.0	116	75-139	
1,1-Dichloroethene	ug/L	ND	50	58.9	118	75-147	
1,1-Dichloropropene	ug/L	ND	50	60.0	120	75-150	
1,2,3-Trichlorobenzene	ug/L	ND	50	52.9	106	75-125	
1,2,3-Trichloropropane	ug/L	ND	50	53.3	107	71-125	
1,2,4-Trichlorobenzene	ug/L	ND	50	53.4	107	75-127	
1,2,4-Trimethylbenzene	ug/L	ND	50	53.7	107	74-133	
1,2-Dibromo-3-chloropropane	ug/L	ND	50	55.3	111	69-125	
1,2-Dibromoethane (EDB)	ug/L	ND	50	56.9	114	75-125	
1,2-Dichlorobenzene	ug/L	ND	50	51.7	103	75-125	
1,2-Dichloroethane	ug/L	ND	50	58.5	117	75-130	
1,2-Dichloropropane	ug/L	ND	50	54.5	109	75-129	
1,3,5-Trimethylbenzene	ug/L	ND	50	54.1	108	72-135	
1,3-Dichlorobenzene	ug/L	ND	50	53.6	107	75-125	
1,3-Dichloropropane	ug/L	ND	50	55.8	112	75-125	
1,4-Dichlorobenzene	ug/L	ND	50	53.6	107	75-125	
2,2-Dichloropropane	ug/L	ND	50	54.0	108	75-150	
2-Butanone (MEK)	ug/L	ND	50	51.2	101	56-126	

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QUALITY CONTROL DATA

Project: City of Rochester - Rev
Pace Project No.: 10181659

MATRIX SPIKE SAMPLE: 1133624

Parameter	Units	10181134002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
2-Chloroethylvinyl ether	ug/L	ND	125	12.5	10	30-125	M1
2-Chlorotoluene	ug/L	ND	50	55.0	110	75-130	
4-Chlorotoluene	ug/L	ND	50	54.6	109	75-127	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	50	53.3	107	69-128	
Acetone	ug/L	ND	125	143	115	32-129	
Acrolein	ug/L	ND	500	395	79	44-150	
Acrylonitrile	ug/L	ND	500	524	105	70-130	
Allyl chloride	ug/L	ND	50	60.0	120	61-150	
Benzene	ug/L	ND	50	55.8	112	75-135	
Bromobenzene	ug/L	ND	50	54.5	109	75-125	
Bromochloromethane	ug/L	ND	50	58.0	116	75-128	
Bromodichloromethane	ug/L	ND	50	56.8	114	75-127	
Bromoform	ug/L	ND	50	61.6	123	76-125	
Bromomethane	ug/L	ND	50	45.7	91	64-150	
Carbon tetrachloride	ug/L	ND	50	63.2	126	75-148	
Chlorobenzene	ug/L	ND	50	54.2	108	75-125	
Chloroethane	ug/L	ND	50	52.8	106	75-146	
Chloroform	ug/L	ND	50	57.9	116	75-131	
Chloromethane	ug/L	7.8	50	55.4	95	73-141	
cis-1,2-Dichloroethene	ug/L	ND	50	56.9	114	75-136	
cis-1,3-Dichloropropene	ug/L	ND	50	54.9	110	75-130	
Dibromochloromethane	ug/L	ND	50	59.2	118	75-125	
Dibromomethane	ug/L	ND	50	56.7	113	75-125	
Dichlorodifluoromethane	ug/L	ND	50	48.9	98	75-150	
Dichlorofluoromethane	ug/L	ND	50	60.2	120	75-140	
Diethyl ether (Ethyl ether)	ug/L	ND	50	54.7	109	75-129	
Ethylbenzene	ug/L	ND	50	54.9	110	75-129	
Hexachloro-1,3-butadiene	ug/L	ND	25	27.6	110	72-139	
Isopropylbenzene (Cumene)	ug/L	ND	50	55.3	111	75-131	
m&p-Xylene	ug/L	ND	100	113	113	75-129	
Methyl-tert-butyl ether	ug/L	ND	50	56.0	112	75-131	
Methylene Chloride	ug/L	ND	50	54.6	109	74-125	
n-Butylbenzene	ug/L	ND	50	55.1	110	75-138	
n-Propylbenzene	ug/L	ND	50	56.1	112	75-134	
Naphthalene	ug/L	ND	50	51.5	103	75-125	
o-Xylene	ug/L	ND	50	55.1	110	75-128	
p-Isopropyltoluene	ug/L	ND	50	54.3	109	75-136	
sec-Butylbenzene	ug/L	ND	50	55.5	111	75-135	
Styrene	ug/L	ND	50	54.4	109	59-144	
tert-Butylbenzene	ug/L	ND	50	54.6	109	75-133	
Tetrachloroethene	ug/L	45.1	50	105	119	75-136	
Tetrahydrofuran	ug/L	ND	500	518	104	64-134	
Toluene	ug/L	ND	50	54.8	110	75-127	
trans-1,2-Dichloroethene	ug/L	ND	50	59.1	118	75-142	
trans-1,3-Dichloropropene	ug/L	ND	50	54.9	110	74-129	
Trichloroethene	ug/L	ND	50	56.9	114	75-136	
Trichlorofluoromethane	ug/L	ND	50	58.5	117	75-150	
Vinyl chloride	ug/L	ND	50	53.6	107	75-150	

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QUALITY CONTROL DATA

Project: City of Rochester - Rev
Pace Project No.: 10181659

MATRIX SPIKE SAMPLE: 1133624

Parameter	Units	10181134002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Xylene (Total)	ug/L	ND	150	168	112	75-128	
1,2-Dichloroethane-d4 (S)	%				100	75-125	
4-Bromofluorobenzene (S)	%				101	75-125	
Dibromofluoromethane (S)	%				100	75-125	
Toluene-d8 (S)	%				98	75-125	

SAMPLE DUPLICATE: 1133625

Parameter	Units	10181498001 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	ND		30	
2,2-Dichloropropane	ug/L	ND	ND		30	
2-Butanone (MEK)	ug/L	ND	ND		30	
2-Chloroethylvinyl ether	ug/L	ND	ND		30	
2-Chlorotoluene	ug/L	ND	ND		30	
4-Chlorotoluene	ug/L	ND	ND		30	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	ND		30	
Acetone	ug/L	ND	ND		30	
Acrolein	ug/L	ND	ND		30	
Acrylonitrile	ug/L	ND	ND		30	
Allyl chloride	ug/L	ND	ND		30	
Benzene	ug/L	ND	ND		30	
Bromobenzene	ug/L	ND	ND		30	
Bromochloromethane	ug/L	ND	ND		30	
Bromodichloromethane	ug/L	ND	ND		30	
Bromoform	ug/L	ND	ND		30	
Bromomethane	ug/L	ND	ND		30	
Carbon tetrachloride	ug/L	ND	ND		30	

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QUALITY CONTROL DATA

Project: City of Rochester - Rev
Pace Project No.: 10181659

SAMPLE DUPLICATE: 1133625

Parameter	Units	10181498001 Result	Dup Result	RPD	Max RPD	Qualifiers
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	
m&p-Xylene	ug/L		ND		30	
Methyl-tert-butyl ether	ug/L	1.2	1.1	3	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		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	9.8J		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)	%	103	104	2		
4-Bromofluorobenzene (S)	%	101	98	3		
Dibromofluoromethane (S)	%	100	101	1		
Toluene-d8 (S)	%	95	96	.8		

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QUALIFIERS

Project: City of Rochester - Rev
Pace Project No.: 10181659

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.

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.

ANALYTE QUALIFIERS

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

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: City of Rochester - Rev
Pace Project No.: 10181659

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10181659001	**AS- Influent**	EPA 624	MSV/19167		
10181659002	**AS- Effluent**	EPA 624	MSV/19167		

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CHAIN-OF-CUSTODY / Analytical Request Document

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

10181659

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

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☐ OTHER_____

SITE LOCATION ☐ GA ☐ IL ☐ IN ☐ MI ☐ NC ☐ OH ☐ SC ☐ WI ☐ OTHER____

Section D Required Client Information

SAMPLE ID

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

Valid Matrix Codes

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

ITEM #	SAMPLE ID	MATRIX CODE	SAMPLE TYPE G=GRAB C=COMP	COLLECTED COMPOSITE START DATE	COLLECTED COMPOSITE START TIME	COLLECTED COMPOSITE END/GRAB DATE	COLLECTED COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	#OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Filtered (Y/N)	Requested Analysis: EPA 624	Pace Project Number / Lab I.D.
1	AS-Influent	W	G	1/27/12	9:30				3										X	10181659001
2	AS-Effluent	W	G	1/27/12	9:35				3										X	002
3																				
4																				
5																				
6																				
7																				
8																				
5																				
6																				
7																				
8																				

Additional Comments:

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
			L Lepin/Pace	1/27/12	1647

SAMPLE CONDITIONS

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

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Eric Gabrielson

SIGNATURE of SAMPLER: [signature] DATE Signed (MM / DD / YY): 1/27/12

Pace Analytical®	Document Name: **Sample Condition Upon Receipt Form**	Revised Date: 02Jun2011 Page 1 of 1
	Document Number: **F-L-213 Rev.01**	Issuing Authority: Pace Minnesota Quality Office

Sample Condition Upon Receipt

Client Name: Landmark **Project #** 10181659

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

Tracking #: _____

Optional: Proj. Due Date: Proj. Name:

Custody Seal on Cooler/Box Present: ☐ yes ☑ no Seals intact: ☐ yes ☑ no

Packing Material: ☐ Bubble Wrap ☑ Bubble Bags ☐ None ☐ Other _____ Temp Blank: Yes ____ No ✓

Thermometer Used 80344042 or 80512447 **Type of Ice:** Wet Blue None ☐ Samples on ice, cooling process has begun

Cooler Temperature 4.1 **Biological Tissue is Frozen:** Yes No

Temp should be above freezing to 6°C **Comments:**

Date and Initials of person examining contents: 1/27/12 LC

Chain of Custody Present:	☑Yes ☐No ☐N/A	1.
Chain of Custody Filled Out:	☑Yes ☐No ☐N/A	2.
Chain of Custody Relinquished:	☐Yes ☑No ☐N/A	3.
Sampler Name & Signature on COC:	☑Yes ☐No ☐N/A	4.
Samples Arrived within Hold Time:	☑Yes ☐No ☐N/A	5.
Short Hold Time Analysis (<72hr):	☐Yes ☑No ☐N/A	6.
Rush Turn Around Time Requested:	☐Yes ☑No ☐N/A	7.
Sufficient Volume:	☑Yes ☐No ☐N/A	8.
Correct Containers Used:	☑Yes ☐No ☐N/A	9.
-Pace Containers Used:	☑Yes ☐No ☐N/A	
Containers Intact:	☑Yes ☐No ☐N/A	10.
Filtered volume received for Dissolved tests	☐Yes ☐No ☑N/A	11.
Sample Labels match COC:	☑Yes ☐No ☐N/A	12.
-Includes date/time/ID/Analysis Matrix: WT		
All containers needing acid/base preservation have been checked. Noncompliance are noted in 13.	☐Yes ☐No ☐N/A	13. ☐ HNO3 ☐ H2SO4 ☐ NaOH ☐ HCl Samp #
All containers needing preservation are found to be in compliance with EPA recommendation.	☐Yes ☐No ☑N/A	
Exceptions: VOA, Coliform, TOC, Oil and Grease, WI-DRO (water)	☐Yes ☐No	Initial when completed LC / Lot # of added preservative
Samples checked for dechlorination:	☐Yes ☐No ☑N/A	14.
Headspace in VOA Vials (>6mm):	☐Yes ☐No ☑N/A	15.
Trip Blank Present:	☐Yes ☐No ☐N/A	16.
Trip Blank Custody Seals Present	☐Yes ☐No ☐N/A	
Pace Trip Blank Lot # (if purchased): _____		

Client Notification/ Resolution: Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: _____ **Date:** 1/30/12

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

Pace Analytical Services, Inc.
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(612)607-1700

February 24, 2012

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

RE: Project: CRC City of Rochester
Pace Project No.: 10183332

Dear Mr. Skramstad:
Enclosed are the analytical results for sample(s) received by the laboratory on February 17, 2012. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

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

Sincerely,

Carol Davy for
Carolynne Trout
carolynne.trout@pacelabs.com
Project Manager

Enclosures

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CERTIFICATIONS

Project: CRC City of Rochester
Pace Project No.: 10183332

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
EPA Region 8 Certification #: Pace
Florida/NELAP Certification #: E87605
Georgia Certification #: 959
Idaho Certification #: MN00064
Illinois Certification #: 200011
Iowa Certification #: 368
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 Mexico Certification #: Pace
New York Certification #: 11647
North Carolina Certification #: 530
North Dakota Certification #: R-036
North Dakota Certification #: R-036A
Ohio VAP Certification #: CL101
Oklahoma Certification #: D9921
Oklahoma Certification #: 9507
Oregon Certification #: MN200001
Pennsylvania Certification #: 68-00563
Puerto Rico Certification
Tennessee Certification #: 02818
Texas Certification #: T104704192
Washington Certification #: C754
Wisconsin Certification #: 999407970

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SAMPLE SUMMARY

Project: CRC City of Rochester
Pace Project No.: 10183332

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10183332001	**AS-Influent**	Water	02/16/12 09:15	02/17/12 13:11
10183332002	**AS-Effluent**	Water	02/16/12 09:30	02/17/12 13:11

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SAMPLE ANALYTE COUNT

Project: CRC City of Rochester
Pace Project No.: 10183332

Lab ID	Sample ID	Method	Analysts	Analytes Reported
10183332001	**AS-Influent**	EPA 624	SE	83
10183332002	**AS-Effluent**	EPA 624	SE	83

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ANALYTICAL RESULTS

Project: CRC City of Rochester
Pace Project No.: 10183332

Sample: AS-Influent **Lab ID: 10183332001** Collected: 02/16/12 09:15 Received: 02/17/12 13:11 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		02/21/12 10:11	67-64-1	
Acrolein	ND	ug/L	10.0	1		02/21/12 10:11	107-02-8	
Acrylonitrile	ND	ug/L	10.0	1		02/21/12 10:11	107-13-1	
Allyl chloride	ND	ug/L	4.0	1		02/21/12 10:11	107-05-1	
Benzene	ND	ug/L	1.0	1		02/21/12 10:11	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		02/21/12 10:11	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		02/21/12 10:11	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		02/21/12 10:11	75-27-4	
Bromoform	ND	ug/L	4.0	1		02/21/12 10:11	75-25-2	L3,M0
Bromomethane	ND	ug/L	4.0	1		02/21/12 10:11	74-83-9	
2-Butanone (MEK)	ND	ug/L	4.0	1		02/21/12 10:11	78-93-3	
n-Butylbenzene	ND	ug/L	1.0	1		02/21/12 10:11	104-51-8	
sec-Butylbenzene	ND	ug/L	1.0	1		02/21/12 10:11	135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	1		02/21/12 10:11	98-06-6	
Carbon disulfide	ND	ug/L	1.0	1		02/21/12 10:11	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	1		02/21/12 10:11	56-23-5	M1
Chlorobenzene	ND	ug/L	1.0	1		02/21/12 10:11	108-90-7	
Chloroethane	ND	ug/L	1.0	1		02/21/12 10:11	75-00-3	
2-Chloroethylvinyl ether	ND	ug/L	10.0	1		02/21/12 10:11	110-75-8	L3,M0
Chloroform	ND	ug/L	1.0	1		02/21/12 10:11	67-66-3	
Chloromethane	ND	ug/L	4.0	1		02/21/12 10:11	74-87-3	
Chloroprene	ND	ug/L	1.0	1		02/21/12 10:11	126-99-8	
2-Chlorotoluene	ND	ug/L	1.0	1		02/21/12 10:11	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		02/21/12 10:11	106-43-4	L2
1,2-Dibromo-3-chloropropane	ND	ug/L	4.0	1		02/21/12 10:11	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		02/21/12 10:11	124-48-1	M1
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		02/21/12 10:11	106-93-4	
Dibromomethane	ND	ug/L	4.0	1		02/21/12 10:11	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		02/21/12 10:11	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		02/21/12 10:11	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		02/21/12 10:11	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		02/21/12 10:11	75-71-8	M1
1,1-Dichloroethane	ND	ug/L	1.0	1		02/21/12 10:11	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		02/21/12 10:11	107-06-2	
1,2-Dichloroethene (Total)	ND	ug/L	2.0	1		02/21/12 10:11	540-59-0	
1,1-Dichloroethene	ND	ug/L	1.0	1		02/21/12 10:11	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		02/21/12 10:11	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		02/21/12 10:11	156-60-5	
Dichlorofluoromethane	ND	ug/L	1.0	1		02/21/12 10:11	75-43-4	
1,2-Dichloropropane	ND	ug/L	4.0	1		02/21/12 10:11	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		02/21/12 10:11	142-28-9	
2,2-Dichloropropane	ND	ug/L	4.0	1		02/21/12 10:11	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		02/21/12 10:11	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	4.0	1		02/21/12 10:11	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	4.0	1		02/21/12 10:11	10061-02-6	
Diethyl ether (Ethyl ether)	ND	ug/L	4.0	1		02/21/12 10:11	60-29-7	
Ethylbenzene	ND	ug/L	1.0	1		02/21/12 10:11	100-41-4	

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ANALYTICAL RESULTS

Project: CRC City of Rochester
Pace Project No.: 10183332

Sample: AS-Influent **Lab ID: 10183332001** Collected: 02/16/12 09:15 Received: 02/17/12 13:11 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		02/21/12 10:11	87-68-3	
2-Hexanone	ND	ug/L	4.0	1		02/21/12 10:11	591-78-6	
Iodomethane	ND	ug/L	4.0	1		02/21/12 10:11	74-88-4	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		02/21/12 10:11	98-82-8	
p-Isopropyltoluene	ND	ug/L	1.0	1		02/21/12 10:11	99-87-6	
Methylene Chloride	ND	ug/L	10.0	1		02/21/12 10:11	75-09-2	
2-Methylnaphthalene	ND	ug/L	5.0	1		02/21/12 10:11	91-57-6	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	4.0	1		02/21/12 10:11	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		02/21/12 10:11	1634-04-4	
Naphthalene	ND	ug/L	4.0	1		02/21/12 10:11	91-20-3	
n-Propylbenzene	ND	ug/L	1.0	1		02/21/12 10:11	103-65-1	
Styrene	ND	ug/L	1.0	1		02/21/12 10:11	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		02/21/12 10:11	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		02/21/12 10:11	79-34-5	
Tetrachloroethene	**51.8**	ug/L	1.0	1		02/21/12 10:11	127-18-4	
Tetrahydrofuran	ND	ug/L	10.0	1		02/21/12 10:11	109-99-9	
Toluene	ND	ug/L	1.0	1		02/21/12 10:11	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		02/21/12 10:11	87-61-6	M1
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		02/21/12 10:11	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		02/21/12 10:11	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		02/21/12 10:11	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		02/21/12 10:11	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		02/21/12 10:11	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	4.0	1		02/21/12 10:11	96-18-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/L	1.0	1		02/21/12 10:11	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1		02/21/12 10:11	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1		02/21/12 10:11	108-67-8	
Vinyl acetate	ND	ug/L	10.0	1		02/21/12 10:11	108-05-4	
Vinyl chloride	ND	ug/L	0.40	1		02/21/12 10:11	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		02/21/12 10:11	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		02/21/12 10:11	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		02/21/12 10:11	95-47-6	
Surrogates								
Dibromofluoromethane (S)	100	%	75-125	1		02/21/12 10:11	1868-53-7	
1,2-Dichloroethane-d4 (S)	99	%	75-125	1		02/21/12 10:11	17060-07-0	
Toluene-d8 (S)	76	%	75-125	1		02/21/12 10:11	2037-26-5	
4-Bromofluorobenzene (S)	97	%	75-125	1		02/21/12 10:11	460-00-4	

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ANALYTICAL RESULTS

Project: CRC City of Rochester
Pace Project No.: 10183332

Sample: AS-Effluent **Lab ID: 10183332002** Collected: 02/16/12 09:30 Received: 02/17/12 13:11 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		02/21/12 10:37	67-64-1	
Acrolein	ND	ug/L	10.0	1		02/21/12 10:37	107-02-8	
Acrylonitrile	ND	ug/L	10.0	1		02/21/12 10:37	107-13-1	
Allyl chloride	ND	ug/L	4.0	1		02/21/12 10:37	107-05-1	
Benzene	ND	ug/L	1.0	1		02/21/12 10:37	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		02/21/12 10:37	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		02/21/12 10:37	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		02/21/12 10:37	75-27-4	
Bromoform	ND	ug/L	4.0	1		02/21/12 10:37	75-25-2	L3
Bromomethane	ND	ug/L	4.0	1		02/21/12 10:37	74-83-9	
2-Butanone (MEK)	ND	ug/L	4.0	1		02/21/12 10:37	78-93-3	
n-Butylbenzene	ND	ug/L	1.0	1		02/21/12 10:37	104-51-8	
sec-Butylbenzene	ND	ug/L	1.0	1		02/21/12 10:37	135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	1		02/21/12 10:37	98-06-6	
Carbon disulfide	ND	ug/L	1.0	1		02/21/12 10:37	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	1		02/21/12 10:37	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		02/21/12 10:37	108-90-7	
Chloroethane	ND	ug/L	1.0	1		02/21/12 10:37	75-00-3	
2-Chloroethylvinyl ether	ND	ug/L	10.0	1		02/21/12 10:37	110-75-8	L3
Chloroform	ND	ug/L	1.0	1		02/21/12 10:37	67-66-3	
Chloromethane	ND	ug/L	4.0	1		02/21/12 10:37	74-87-3	
Chloroprene	ND	ug/L	1.0	1		02/21/12 10:37	126-99-8	
2-Chlorotoluene	ND	ug/L	1.0	1		02/21/12 10:37	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		02/21/12 10:37	106-43-4	L2
1,2-Dibromo-3-chloropropane	ND	ug/L	4.0	1		02/21/12 10:37	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		02/21/12 10:37	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		02/21/12 10:37	106-93-4	
Dibromomethane	ND	ug/L	4.0	1		02/21/12 10:37	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		02/21/12 10:37	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		02/21/12 10:37	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		02/21/12 10:37	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		02/21/12 10:37	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		02/21/12 10:37	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		02/21/12 10:37	107-06-2	
1,2-Dichloroethene (Total)	ND	ug/L	2.0	1		02/21/12 10:37	540-59-0	
1,1-Dichloroethene	ND	ug/L	1.0	1		02/21/12 10:37	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		02/21/12 10:37	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		02/21/12 10:37	156-60-5	
Dichlorofluoromethane	ND	ug/L	1.0	1		02/21/12 10:37	75-43-4	
1,2-Dichloropropane	ND	ug/L	4.0	1		02/21/12 10:37	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		02/21/12 10:37	142-28-9	
2,2-Dichloropropane	ND	ug/L	4.0	1		02/21/12 10:37	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		02/21/12 10:37	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	4.0	1		02/21/12 10:37	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	4.0	1		02/21/12 10:37	10061-02-6	
Diethyl ether (Ethyl ether)	ND	ug/L	4.0	1		02/21/12 10:37	60-29-7	
Ethylbenzene	ND	ug/L	1.0	1		02/21/12 10:37	100-41-4	

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ANALYTICAL RESULTS

Project: CRC City of Rochester
Pace Project No.: 10183332

Sample: AS-Effluent **Lab ID: 10183332002** Collected: 02/16/12 09:30 Received: 02/17/12 13:11 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		02/21/12 10:37	87-68-3	
2-Hexanone	ND	ug/L	4.0	1		02/21/12 10:37	591-78-6	
Iodomethane	ND	ug/L	4.0	1		02/21/12 10:37	74-88-4	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		02/21/12 10:37	98-82-8	
p-Isopropyltoluene	ND	ug/L	1.0	1		02/21/12 10:37	99-87-6	
Methylene Chloride	ND	ug/L	10.0	1		02/21/12 10:37	75-09-2	
2-Methylnaphthalene	ND	ug/L	5.0	1		02/21/12 10:37	91-57-6	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	4.0	1		02/21/12 10:37	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		02/21/12 10:37	1634-04-4	
Naphthalene	ND	ug/L	4.0	1		02/21/12 10:37	91-20-3	
n-Propylbenzene	ND	ug/L	1.0	1		02/21/12 10:37	103-65-1	
Styrene	ND	ug/L	1.0	1		02/21/12 10:37	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		02/21/12 10:37	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		02/21/12 10:37	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		02/21/12 10:37	127-18-4	
Tetrahydrofuran	ND	ug/L	10.0	1		02/21/12 10:37	109-99-9	
Toluene	ND	ug/L	1.0	1		02/21/12 10:37	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		02/21/12 10:37	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		02/21/12 10:37	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		02/21/12 10:37	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		02/21/12 10:37	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		02/21/12 10:37	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		02/21/12 10:37	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	4.0	1		02/21/12 10:37	96-18-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/L	1.0	1		02/21/12 10:37	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1		02/21/12 10:37	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1		02/21/12 10:37	108-67-8	
Vinyl acetate	ND	ug/L	10.0	1		02/21/12 10:37	108-05-4	
Vinyl chloride	ND	ug/L	0.40	1		02/21/12 10:37	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		02/21/12 10:37	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		02/21/12 10:37	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		02/21/12 10:37	95-47-6	
Surrogates								
Dibromofluoromethane (S)	93	%	75-125	1		02/21/12 10:37	1868-53-7	
1,2-Dichloroethane-d4 (S)	97	%	75-125	1		02/21/12 10:37	17060-07-0	
Toluene-d8 (S)	76	%	75-125	1		02/21/12 10:37	2037-26-5	
4-Bromofluorobenzene (S)	97	%	75-125	1		02/21/12 10:37	460-00-4	

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QUALITY CONTROL DATA

Project: CRC City of Rochester
Pace Project No.: 10183332

QC Batch: MSV/19295 Analysis Method: EPA 624
QC Batch Method: EPA 624 Analysis Description: 624 MSV
Associated Lab Samples: 10183332001, 10183332002

METHOD BLANK: 1142915 Matrix: Water
Associated Lab Samples: 10183332001, 10183332002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	1.0	02/21/12 09:31	
1,1,1-Trichloroethane	ug/L	ND	1.0	02/21/12 09:31	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	02/21/12 09:31	
1,1,2-Trichloroethane	ug/L	ND	1.0	02/21/12 09:31	
1,1,2-Trichlorotrifluoroethane	ug/L	ND	1.0	02/21/12 09:31	
1,1-Dichloroethane	ug/L	ND	1.0	02/21/12 09:31	
1,1-Dichloroethene	ug/L	ND	1.0	02/21/12 09:31	
1,1-Dichloropropene	ug/L	ND	1.0	02/21/12 09:31	
1,2,3-Trichlorobenzene	ug/L	ND	1.0	02/21/12 09:31	
1,2,3-Trichloropropane	ug/L	ND	4.0	02/21/12 09:31	
1,2,4-Trichlorobenzene	ug/L	ND	1.0	02/21/12 09:31	
1,2,4-Trimethylbenzene	ug/L	ND	1.0	02/21/12 09:31	
1,2-Dibromo-3-chloropropane	ug/L	ND	4.0	02/21/12 09:31	
1,2-Dibromoethane (EDB)	ug/L	ND	1.0	02/21/12 09:31	
1,2-Dichlorobenzene	ug/L	ND	1.0	02/21/12 09:31	
1,2-Dichloroethane	ug/L	ND	1.0	02/21/12 09:31	
1,2-Dichloroethene (Total)	ug/L	ND	2.0	02/21/12 09:31	
1,2-Dichloropropane	ug/L	ND	4.0	02/21/12 09:31	
1,3,5-Trimethylbenzene	ug/L	ND	1.0	02/21/12 09:31	
1,3-Dichlorobenzene	ug/L	ND	1.0	02/21/12 09:31	
1,3-Dichloropropane	ug/L	ND	1.0	02/21/12 09:31	
1,4-Dichlorobenzene	ug/L	ND	1.0	02/21/12 09:31	
2,2-Dichloropropane	ug/L	ND	4.0	02/21/12 09:31	
2-Butanone (MEK)	ug/L	ND	4.0	02/21/12 09:31	
2-Chloroethylvinyl ether	ug/L	ND	10.0	02/21/12 09:31	
2-Chlorotoluene	ug/L	ND	1.0	02/21/12 09:31	
2-Hexanone	ug/L	ND	4.0	02/21/12 09:31	
2-Methylnaphthalene	ug/L	ND	5.0	02/21/12 09:31	
4-Chlorotoluene	ug/L	ND	1.0	02/21/12 09:31	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	4.0	02/21/12 09:31	
Acetone	ug/L	ND	25.0	02/21/12 09:31	
Acrolein	ug/L	ND	10.0	02/21/12 09:31	
Acrylonitrile	ug/L	ND	10.0	02/21/12 09:31	
Allyl chloride	ug/L	ND	4.0	02/21/12 09:31	
Benzene	ug/L	ND	1.0	02/21/12 09:31	
Bromobenzene	ug/L	ND	1.0	02/21/12 09:31	
Bromochloromethane	ug/L	ND	1.0	02/21/12 09:31	
Bromodichloromethane	ug/L	ND	1.0	02/21/12 09:31	
Bromoform	ug/L	ND	4.0	02/21/12 09:31	
Bromomethane	ug/L	ND	4.0	02/21/12 09:31	
Carbon disulfide	ug/L	ND	1.0	02/21/12 09:31	
Carbon tetrachloride	ug/L	ND	1.0	02/21/12 09:31	
Chlorobenzene	ug/L	ND	1.0	02/21/12 09:31	

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QUALITY CONTROL DATA

Project: CRC City of Rochester
Pace Project No.: 10183332

METHOD BLANK: 1142915 Matrix: Water

Associated Lab Samples: 10183332001, 10183332002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloroethane	ug/L	ND	1.0	02/21/12 09:31	
Chloroform	ug/L	ND	1.0	02/21/12 09:31	
Chloromethane	ug/L	ND	4.0	02/21/12 09:31	
Chloroprene	ug/L	ND	1.0	02/21/12 09:31	
cis-1,2-Dichloroethene	ug/L	ND	1.0	02/21/12 09:31	
cis-1,3-Dichloropropene	ug/L	ND	4.0	02/21/12 09:31	
Dibromochloromethane	ug/L	ND	1.0	02/21/12 09:31	
Dibromomethane	ug/L	ND	4.0	02/21/12 09:31	
Dichlorodifluoromethane	ug/L	ND	1.0	02/21/12 09:31	
Dichlorofluoromethane	ug/L	ND	1.0	02/21/12 09:31	
Diethyl ether (Ethyl ether)	ug/L	ND	4.0	02/21/12 09:31	
Ethylbenzene	ug/L	ND	1.0	02/21/12 09:31	
Hexachloro-1,3-butadiene	ug/L	ND	5.0	02/21/12 09:31	
Iodomethane	ug/L	ND	4.0	02/21/12 09:31	
Isopropylbenzene (Cumene)	ug/L	ND	1.0	02/21/12 09:31	
m&p-Xylene	ug/L	ND	2.0	02/21/12 09:31	
Methyl-tert-butyl ether	ug/L	ND	1.0	02/21/12 09:31	
Methylene Chloride	ug/L	ND	10.0	02/21/12 09:31	
n-Butylbenzene	ug/L	ND	1.0	02/21/12 09:31	
n-Propylbenzene	ug/L	ND	1.0	02/21/12 09:31	
Naphthalene	ug/L	ND	4.0	02/21/12 09:31	
o-Xylene	ug/L	ND	1.0	02/21/12 09:31	
p-Isopropyltoluene	ug/L	ND	1.0	02/21/12 09:31	
sec-Butylbenzene	ug/L	ND	1.0	02/21/12 09:31	
Styrene	ug/L	ND	1.0	02/21/12 09:31	
tert-Butylbenzene	ug/L	ND	1.0	02/21/12 09:31	
Tetrachloroethene	ug/L	ND	1.0	02/21/12 09:31	
Tetrahydrofuran	ug/L	ND	10.0	02/21/12 09:31	
Toluene	ug/L	ND	1.0	02/21/12 09:31	
trans-1,2-Dichloroethene	ug/L	ND	1.0	02/21/12 09:31	
trans-1,3-Dichloropropene	ug/L	ND	4.0	02/21/12 09:31	
Trichloroethene	ug/L	ND	1.0	02/21/12 09:31	
Trichlorofluoromethane	ug/L	ND	1.0	02/21/12 09:31	
Vinyl acetate	ug/L	ND	10.0	02/21/12 09:31	
Vinyl chloride	ug/L	ND	0.40	02/21/12 09:31	
Xylene (Total)	ug/L	ND	3.0	02/21/12 09:31	
1,2-Dichloroethane-d4 (S)	%	101	75-125	02/21/12 09:31	
4-Bromofluorobenzene (S)	%	84	75-125	02/21/12 09:31	
Dibromofluoromethane (S)	%	92	75-125	02/21/12 09:31	
Toluene-d8 (S)	%	87	75-125	02/21/12 09:31	

LABORATORY CONTROL SAMPLE: 1142916

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	48.0	96	75-125	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: CRC City of Rochester
Pace Project No.: 10183332

LABORATORY CONTROL SAMPLE: 1142916

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	47.2	94	75-129	
1,1,2,2-Tetrachloroethane	ug/L	50	47.1	94	69-126	
1,1,2-Trichloroethane	ug/L	50	43.3	87	75-125	
1,1,2-Trichlorotrifluoroethane	ug/L	50	38.4	77	70-127	
1,1-Dichloroethane	ug/L	50	44.0	88	75-128	
1,1-Dichloroethene	ug/L	50	43.5	87	72-130	
1,1-Dichloropropene	ug/L	50	43.0	86	75-130	
1,2,3-Trichlorobenzene	ug/L	50	48.5	97	75-125	
1,2,3-Trichloropropane	ug/L	50	42.6	85	75-125	
1,2,4-Trichlorobenzene	ug/L	50	41.5	83	75-126	
1,2,4-Trimethylbenzene	ug/L	50	37.8	76	75-125	
1,2-Dibromo-3-chloropropane	ug/L	50	47.1	94	72-125	
1,2-Dibromoethane (EDB)	ug/L	50	47.2	94	75-125	
1,2-Dichlorobenzene	ug/L	50	39.7	79	75-125	
1,2-Dichloroethane	ug/L	50	47.1	94	75-125	
1,2-Dichloroethene (Total)	ug/L	100	101	101	75-125	
1,2-Dichloropropane	ug/L	50	43.3	87	75-125	
1,3,5-Trimethylbenzene	ug/L	50	37.9	76	75-125	
1,3-Dichlorobenzene	ug/L	50	39.2	78	75-125	
1,3-Dichloropropane	ug/L	50	44.2	88	75-125	
1,4-Dichlorobenzene	ug/L	50	39.6	79	75-125	
2,2-Dichloropropane	ug/L	50	47.9	96	75-133	
2-Butanone (MEK)	ug/L	50	43.0	86	62-132	
2-Chloroethylvinyl ether	ug/L	125	183	147	75-125	L0
2-Chlorotoluene	ug/L	50	37.7	75	74-126	
2-Hexanone	ug/L	50	43.0	86	74-125	
2-Methylnaphthalene	ug/L	25	25.0	100	63-126	
4-Chlorotoluene	ug/L	50	36.6	73	75-126	L0
4-Methyl-2-pentanone (MIBK)	ug/L	50	53.4	107	73-125	
Acetone	ug/L	125	121	97	35-150	
Acrolein	ug/L	500	411	82	62-143	
Acrylonitrile	ug/L	500	455	91	75-125	
Allyl chloride	ug/L	50	45.0	90	71-139	
Benzene	ug/L	50	42.8	86	74-126	
Bromobenzene	ug/L	50	44.4	89	75-125	
Bromochloromethane	ug/L	50	47.1	94	75-125	
Bromodichloromethane	ug/L	50	47.8	96	75-125	
Bromoform	ug/L	50	63.8	128	75-126	L0
Bromomethane	ug/L	50	42.9	86	59-146	
Carbon disulfide	ug/L	50	43.3	87	66-133	
Carbon tetrachloride	ug/L	50	48.2	96	72-133	
Chlorobenzene	ug/L	50	41.3	83	75-125	
Chloroethane	ug/L	50	44.0	88	73-138	
Chloroform	ug/L	50	44.9	90	75-125	
Chloromethane	ug/L	50	37.8	76	68-129	
Chloroprene	ug/L	50	43.8	88	68-133	
cis-1,2-Dichloroethene	ug/L	50	45.5	91	75-125	
cis-1,3-Dichloropropene	ug/L	50	56.9	114	75-125	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: CRC City of Rochester
Pace Project No.: 10183332

LABORATORY CONTROL SAMPLE: 1142916

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Dibromochloromethane	ug/L	50	49.5	99	75-125	
Dibromomethane	ug/L	50	46.8	94	75-125	
Dichlorodifluoromethane	ug/L	50	40.1	80	75-150	
Dichlorofluoromethane	ug/L	50	42.3	85	75-128	
Diethyl ether (Ethyl ether)	ug/L	50	40.8	82	75-125	
Ethylbenzene	ug/L	50	40.2	80	75-125	
Hexachloro-1,3-butadiene	ug/L	25	21.6	86	61-133	
Iodomethane	ug/L	50	35.0	70	55-149	
Isopropylbenzene (Cumene)	ug/L	50	50.1	100	75-125	
m&p-Xylene	ug/L	100	80.4	80	75-125	
Methyl-tert-butyl ether	ug/L	50	46.5	93	75-125	
Methylene Chloride	ug/L	50	43.3	87	75-125	
n-Butylbenzene	ug/L	50	39.1	78	72-130	
n-Propylbenzene	ug/L	50	41.7	83	74-129	
Naphthalene	ug/L	50	41.7	83	75-125	
o-Xylene	ug/L	50	41.3	83	75-125	
p-Isopropyltoluene	ug/L	50	38.5	77	73-130	
sec-Butylbenzene	ug/L	50	37.6	75	71-131	
Styrene	ug/L	50	50.1	100	75-125	
tert-Butylbenzene	ug/L	50	36.8	74	73-129	
Tetrachloroethene	ug/L	50	46.8	94	74-127	
Tetrahydrofuran	ug/L	500	438	88	71-127	
Toluene	ug/L	50	48.1	96	75-125	
trans-1,2-Dichloroethene	ug/L	50	44.1	88	74-127	
trans-1,3-Dichloropropene	ug/L	50	55.2	110	75-125	
Trichloroethene	ug/L	50	48.2	96	75-125	
Trichlorofluoromethane	ug/L	50	43.8	88	75-150	
Vinyl acetate	ug/L	50	46.3	93	75-128	
Vinyl chloride	ug/L	50	40.9	82	75-132	
Xylene (Total)	ug/L	150	122	81	75-125	
1,2-Dichloroethane-d4 (S)	%			94	75-125	
4-Bromofluorobenzene (S)	%			118	75-125	
Dibromofluoromethane (S)	%			99	75-125	
Toluene-d8 (S)	%			114	75-125	

MATRIX SPIKE SAMPLE: 1142950

Parameter	Units	10183332001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	50	55.0	110	75-126	
1,1,1-Trichloroethane	ug/L	ND	50	63.0	126	75-141	
1,1,2,2-Tetrachloroethane	ug/L	ND	50	41.3	83	68-129	
1,1,2-Trichloroethane	ug/L	ND	50	53.0	106	75-125	
1,1,2-Trichlorotrifluoroethane	ug/L	ND	50	72.3	144	75-150	
1,1-Dichloroethane	ug/L	ND	50	53.3	107	75-139	
1,1-Dichloroethene	ug/L	ND	50	56.2	112	75-147	
1,1-Dichloropropene	ug/L	ND	50	55.9	112	75-150	
1,2,3-Trichlorobenzene	ug/L	ND	50	36.7	73	75-125	M1

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Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA

Project: CRC City of Rochester
Pace Project No.: 10183332

MATRIX SPIKE SAMPLE: 1142950

Parameter	Units	10183332001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,2,3-Trichloropropane	ug/L	ND	50	46.5	93	71-125	
1,2,4-Trichlorobenzene	ug/L	ND	50	39.3	79	75-127	
1,2,4-Trimethylbenzene	ug/L	ND	50	46.3	93	74-133	
1,2-Dibromo-3-chloropropane	ug/L	ND	50	48.8	98	69-125	
1,2-Dibromoethane (EDB)	ug/L	ND	50	50.9	102	75-125	
1,2-Dichlorobenzene	ug/L	ND	50	46.5	93	75-125	
1,2-Dichloroethane	ug/L	ND	50	53.6	107	75-130	
1,2-Dichloroethene (Total)	ug/L	ND	100	108	107	70-130	
1,2-Dichloropropane	ug/L	ND	50	54.4	109	75-129	
1,3,5-Trimethylbenzene	ug/L	ND	50	46.4	93	72-135	
1,3-Dichlorobenzene	ug/L	ND	50	46.0	92	75-125	
1,3-Dichloropropane	ug/L	ND	50	50.7	101	75-125	
1,4-Dichlorobenzene	ug/L	ND	50	46.3	93	75-125	
2,2-Dichloropropane	ug/L	ND	50	62.8	126	75-150	
2-Butanone (MEK)	ug/L	ND	50	44.2	88	56-126	
2-Chloroethylvinyl ether	ug/L	ND	125	16.6	13	30-125	M0
2-Chlorotoluene	ug/L	ND	50	46.4	93	75-130	
2-Hexanone	ug/L	ND	50	42.6	85	68-125	
2-Methylnaphthalene	ug/L	ND	25	19.6	78	60-130	
4-Chlorotoluene	ug/L	ND	50	43.7	87	75-127	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	50	44.3	89	69-128	
Acetone	ug/L	ND	125	129	103	32-129	
Acrolein	ug/L	ND	500	440	88	44-150	
Acrylonitrile	ug/L	ND	500	470	94	70-130	
Allyl chloride	ug/L	ND	50	56.9	114	61-150	
Benzene	ug/L	ND	50	52.1	104	75-135	
Bromobenzene	ug/L	ND	50	42.9	86	75-125	
Bromochloromethane	ug/L	ND	50	56.7	113	75-128	
Bromodichloromethane	ug/L	ND	50	55.8	112	75-127	
Bromoform	ug/L	ND	50	65.6	131	76-125	M0
Bromomethane	ug/L	ND	50	60.2	120	64-150	
Carbon disulfide	ug/L	ND	50	55.9	112	51-150	
Carbon tetrachloride	ug/L	ND	50	75.6	151	75-148	M1
Chlorobenzene	ug/L	ND	50	49.2	98	75-125	
Chloroethane	ug/L	ND	50	59.3	119	75-146	
Chloroform	ug/L	ND	50	64.2	128	75-131	
Chloromethane	ug/L	ND	50	51.0	102	73-141	
Chloroprene	ug/L	ND	50	56.0	112	63-150	
cis-1,2-Dichloroethene	ug/L	ND	50	53.7	106	75-136	
cis-1,3-Dichloropropene	ug/L	ND	50	43.1	86	75-130	
Dibromochloromethane	ug/L	ND	50	64.7	129	75-125	M1
Dibromomethane	ug/L	ND	50	53.7	107	75-125	
Dichlorodifluoromethane	ug/L	ND	50	83.5	167	75-150	M1
Dichlorofluoromethane	ug/L	ND	50	53.7	107	75-140	
Diethyl ether (Ethyl ether)	ug/L	ND	50	48.4	97	75-129	
Ethylbenzene	ug/L	ND	50	48.6	97	75-129	
Hexachloro-1,3-butadiene	ug/L	ND	25	21.6	86	72-139	
Iodomethane	ug/L	ND	50	50.5	101	64-150	

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(612)607-1700

QUALITY CONTROL DATA

Project: CRC City of Rochester
Pace Project No.: 10183332

MATRIX SPIKE SAMPLE: 1142950

Parameter	Units	10183332001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Isopropylbenzene (Cumene)	ug/L	ND	50	59.8	120	75-131	
m&p-Xylene	ug/L	ND	100	96.6	97	75-129	
Methyl-tert-butyl ether	ug/L	ND	50	51.3	103	75-131	
Methylene Chloride	ug/L	ND	50	50.5	101	74-125	
n-Butylbenzene	ug/L	ND	50	51.9	104	75-138	
n-Propylbenzene	ug/L	ND	50	43.7	87	75-134	
Naphthalene	ug/L	ND	50	37.5	75	75-125	
o-Xylene	ug/L	ND	50	48.7	97	75-128	
p-Isopropyltoluene	ug/L	ND	50	48.4	97	75-136	
sec-Butylbenzene	ug/L	ND	50	48.7	97	75-135	
Styrene	ug/L	ND	50	58.2	116	59-144	
tert-Butylbenzene	ug/L	ND	50	41.6	83	75-133	
Tetrachloroethene	ug/L	51.8	50	104	104	75-136	
Tetrahydrofuran	ug/L	ND	500	544	109	64-134	
Toluene	ug/L	ND	50	49.2	98	75-127	
trans-1,2-Dichloroethene	ug/L	ND	50	54.9	110	75-142	
trans-1,3-Dichloropropene	ug/L	ND	50	54.2	108	74-129	
Trichloroethene	ug/L	ND	50	54.5	109	75-136	
Trichlorofluoromethane	ug/L	ND	50	67.6	135	75-150	
Vinyl acetate	ug/L	ND	50	50.3	101	58-145	
Vinyl chloride	ug/L	ND	50	59.2	118	75-150	
Xylene (Total)	ug/L	ND	150	145	97	75-128	
1,2-Dichloroethane-d4 (S)	%				96	75-125	
4-Bromofluorobenzene (S)	%				98	75-125	
Dibromofluoromethane (S)	%				111	75-125	
Toluene-d8 (S)	%				95	75-125	

SAMPLE DUPLICATE: 1142951

Parameter	Units	10183332002 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-Dichloroethene (Total)	ug/L	ND	ND		30	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: CRC City of Rochester
Pace Project No.: 10183332

SAMPLE DUPLICATE: 1142951

Parameter	Units	10183332002 Result	Dup Result	RPD	Max RPD	Qualifiers
1,2-Dichloropropane	ug/L	ND	ND		30	
1,3,5-Trimethylbenzene	ug/L	ND	ND		30	
1,3-Dichlorobenzene	ug/L	ND	ND		30	
1,3-Dichloropropane	ug/L	ND	ND		30	
1,4-Dichlorobenzene	ug/L	ND	ND		30	
2,2-Dichloropropane	ug/L	ND	ND		30	
2-Butanone (MEK)	ug/L	ND	ND		30	
2-Chloroethylvinyl ether	ug/L	ND	ND		30	
2-Chlorotoluene	ug/L	ND	ND		30	
2-Hexanone	ug/L	ND	ND		30	
2-Methylnaphthalene	ug/L	ND	ND		30	
4-Chlorotoluene	ug/L	ND	ND		30	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	ND		30	
Acetone	ug/L	ND	ND		30	
Acrolein	ug/L	ND	ND		30	
Acrylonitrile	ug/L	ND	ND		30	
Allyl chloride	ug/L	ND	ND		30	
Benzene	ug/L	ND	ND		30	
Bromobenzene	ug/L	ND	ND		30	
Bromochloromethane	ug/L	ND	ND		30	
Bromodichloromethane	ug/L	ND	ND		30	
Bromoform	ug/L	ND	ND		30	
Bromomethane	ug/L	ND	ND		30	
Carbon disulfide	ug/L	ND	ND		30	
Carbon tetrachloride	ug/L	ND	ND		30	
Chlorobenzene	ug/L	ND	ND		30	
Chloroethane	ug/L	ND	ND		30	
Chloroform	ug/L	ND	ND		30	
Chloromethane	ug/L	ND	ND		30	
Chloroprene	ug/L	ND	ND		30	
cis-1,2-Dichloroethene	ug/L	ND	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	
Isopropylbenzene (Cumene)	ug/L	ND	ND		30	
m&p-Xylene	ug/L	ND	ND		30	
Methyl-tert-butyl ether	ug/L	ND	ND		30	
Methylene Chloride	ug/L	ND	ND		30	
n-Butylbenzene	ug/L	ND	ND		30	
n-Propylbenzene	ug/L	ND	ND		30	
Naphthalene	ug/L	ND	ND		30	
o-Xylene	ug/L	ND	ND		30	

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QUALITY CONTROL DATA

Project: CRC City of Rochester
Pace Project No.: 10183332

SAMPLE DUPLICATE: 1142951

Parameter	Units	10183332002 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	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 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)	%	97	101	4		
4-Bromofluorobenzene (S)	%	97	105	8		
Dibromofluoromethane (S)	%	93	104	11		
Toluene-d8 (S)	%	76	74	4		S0

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QUALIFIERS

Project: CRC City of Rochester
Pace Project No.: 10183332

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.

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.

ANALYTE QUALIFIERS

L0	Analyte recovery in the laboratory control sample (LCS) was outside QC limits.
L2	Analyte recovery in the laboratory control sample (LCS) was below QC limits. Results may be biased low.
L3	Analyte recovery in the laboratory control sample (LCS) exceeded QC limits. Analyte presence below reporting limits in associated samples. Results unaffected by high bias.
M0	Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.
M1	Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
S0	Surrogate recovery outside laboratory control limits.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: CRC City of Rochester
Pace Project No.: 10183332

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10183332001	**AS-Influent**	EPA 624	MSV/19295		
10183332002	**AS-Effluent**	EPA 624	MSV/19295		

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CHAIN-OF-CUSTODY / Analytical Request Document

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

10163332

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

REGULATORY AGENCY

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

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

Section D Required Client Information

SAMPLE ID

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

Samples

Valid Matrix Codes

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

ITEM #	Sample ID	MATRIX CODE	SAMPLE TYPE G=GRAB C=COMP	COLLECTED Composite Start DATE	Composite Start TIME	Composite End/Grab DATE	Composite End/Grab TIME	SAMPLE TEMP AT COLLECTION	#OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Filtered (Y/N)	Requested Analysis: EPA 624	Pace Project Number / Lab I.D.
1	AS-Influent	W	G	2/16/12	9:15				3										X	
2	AS-Effluent	W	G	2/16/12	9:30				3										X	
3																				
4																				
5																				
6																				
7																				
8																				
5																				
6																				
7																				
8																				

Additional Comments:

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
			FACE	2/17/12	1311

SAMPLE CONDITIONS

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

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER:

SIGNATURE of SAMPLER: Eric Gabrielson DATE Signed (MM / DD / YY): 2/17/12

Pace Analytical®	Document Name: Sample Condition Upon Receipt Form	Revised Date: 02Jun2011 Page 1 of 1
	Document Number: F-L-213 Rev.01	Issuing Authority: Pace Minnesota Quality Office

Sample Condition Upon Receipt

Client Name: LANDMARK ENVIRONMENTAL **Project #** 10183332

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

Tracking #: 5P00749 03 DH12 2507

Optional: Proj. Due Date: Proj. Name:

Custody Seal on Cooler/Box Present: ☐ yes ☑ no Seals intact: ☐ yes ☑ no

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

Thermometer Used ~~80344042~~ or 80512447 **Type of Ice:** (Wet) Blue None ☐ Samples on ice, cooling process has begun

Cooler Temperature 3.8 **Biological Tissue is Frozen:** Yes No

Temp should be above freezing to 6°C

Date and Initials of person examining contents: B 2/17/12

Comments:

Chain of Custody Present:	☑Yes	☐No	☐N/A
Chain of Custody Filled Out:	☑Yes	☐No	☐N/A
Chain of Custody Relinquished:	☐Yes	☑No	☐N/A
Sampler Name & Signature on COC:	☑Yes	☐No	☐N/A
Samples Arrived within Hold Time:	☑Yes	☐No	☐N/A
Short Hold Time Analysis (<72hr):	☐Yes	☑No	☐N/A
Rush Turn Around Time Requested:	☐Yes	☑No	☐N/A
Sufficient Volume:	☑Yes	☐No	☐N/A
Correct Containers Used:	☑Yes	☐No	☐N/A
-Pace Containers Used:	☑Yes	☐No	☐N/A
Containers Intact:	☑Yes	☐No	☐N/A
Filtered volume received for Dissolved tests	☐Yes	☑No	☐N/A
Sample Labels match COC:	☑Yes	☐No	☐N/A
-Includes date/time/ID/Analysis Matrix: WT			
All containers needing acid/base preservation have been checked. Noncompliance are noted in 13.	☐Yes	☐No	☑N/A
All containers needing preservation are found to be in compliance with EPA recommendation.	☐Yes	☐No	☑N/A
Exceptions: VOA, Coliform, TOC, Oil and Grease, WI-DRO (water)	☑Yes	☐No	
Samples checked for dechlorination:	☐Yes	☐No	☑N/A
Headspace in VOA Vials (>6mm):	☐Yes	☑No	☐N/A
Trip Blank Present:	☑Yes	☐No	☐N/A
Trip Blank Custody Seals Present	☑Yes	☐No	☐N/A
Pace Trip Blank Lot # (if purchased): 011212-1 (1 SET)			

1.
2.
3.
4. SIGNED NOT PRINTED
5.
6.
7.
8.
9.
-Pace Containers Used: 9 UNUSED VIALS
10.
11.
12.
13. ☐ HNO3 ☐ H2SO4 ☐ NaOH ☐ HCl
Samp #
Initial when completed B Lot # of added preservative
14.
15.
16. TB's logged in w/ project 10183331. Projects arrived together

Client Notification/ Resolution: Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: _____ **Date:** 2/20/12

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

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1700 Elm Street - Suite 200
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(612)607-1700

March 26, 2012

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

RE: Project: CRC CITY OF ROCHESTER
Pace Project No.: 10186032

Dear Mr. Skramstad:
Enclosed are the analytical results for sample(s) received by the laboratory on March 19, 2012. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

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

Sincerely,

Diane J. Anderson for
Carolynne Trout
carolynne.trout@pacelabs.com
Project Manager

Enclosures

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CERTIFICATIONS

Project: CRC CITY OF ROCHESTER
Pace Project No.: 10186032

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
EPA Region 8 Certification #: Pace
Florida/NELAP Certification #: E87605
Georgia Certification #: 959
Idaho Certification #: MN00064
Illinois Certification #: 200011
Iowa Certification #: 368
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 Mexico Certification #: Pace
New York Certification #: 11647
North Carolina Certification #: 530
North Dakota Certification #: R-036
North Dakota Certification #: R-036A
Ohio VAP Certification #: CL101
Oklahoma Certification #: D9921
Oklahoma Certification #: 9507
Oregon Certification #: MN200001
Pennsylvania Certification #: 68-00563
Puerto Rico Certification
Tennessee Certification #: 02818
Texas Certification #: T104704192
Washington Certification #: C754
Wisconsin Certification #: 999407970

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SAMPLE SUMMARY

Project: CRC CITY OF ROCHESTER
Pace Project No.: 10186032

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10186032001	**AS-INFLUENT**	Water	03/16/12 11:31	03/19/12 11:18
10186032002	**AS-EFFLUENT**	Water	03/16/12 11:40	03/19/12 11:18
10186032003	**TRIP BLANK**	Water		03/19/12 11:18

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SAMPLE ANALYTE COUNT

Project: CRC CITY OF ROCHESTER
Pace Project No.: 10186032

Lab ID	Sample ID	Method	Analysts	Analytes Reported
10186032001	**AS-INFLUENT**	EPA 624	SE	74
10186032002	**AS-EFFLUENT**	EPA 624	SE	74
10186032003	**TRIP BLANK**	EPA 624	SE	74

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ANALYTICAL RESULTS

Project: CRC CITY OF ROCHESTER
Pace Project No.: 10186032

Sample: AS-INFLUENT **Lab ID: 10186032001** Collected: 03/16/12 11:31 Received: 03/19/12 11:18 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		03/23/12 10:31	67-64-1	
Allyl chloride	ND	ug/L	4.0	1		03/23/12 10:31	107-05-1	
Benzene	ND	ug/L	1.0	1		03/23/12 10:31	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		03/23/12 10:31	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		03/23/12 10:31	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		03/23/12 10:31	75-27-4	
Bromoform	ND	ug/L	4.0	1		03/23/12 10:31	75-25-2	
Bromomethane	ND	ug/L	4.0	1		03/23/12 10:31	74-83-9	
2-Butanone (MEK)	ND	ug/L	4.0	1		03/23/12 10:31	78-93-3	
n-Butylbenzene	ND	ug/L	1.0	1		03/23/12 10:31	104-51-8	
sec-Butylbenzene	ND	ug/L	1.0	1		03/23/12 10:31	135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	1		03/23/12 10:31	98-06-6	
Carbon tetrachloride	ND	ug/L	1.0	1		03/23/12 10:31	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		03/23/12 10:31	108-90-7	
Chloroethane	ND	ug/L	1.0	1		03/23/12 10:31	75-00-3	
2-Chloroethylvinyl ether	ND	ug/L	10.0	1		03/23/12 10:31	110-75-8	M1
Chloroform	ND	ug/L	1.0	1		03/23/12 10:31	67-66-3	
Chloromethane	**4.0**	ug/L	4.0	1		03/23/12 10:31	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		03/23/12 10:31	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		03/23/12 10:31	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	4.0	1		03/23/12 10:31	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		03/23/12 10:31	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		03/23/12 10:31	106-93-4	
Dibromomethane	ND	ug/L	4.0	1		03/23/12 10:31	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		03/23/12 10:31	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		03/23/12 10:31	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		03/23/12 10:31	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		03/23/12 10:31	75-71-8	L2
1,1-Dichloroethane	ND	ug/L	1.0	1		03/23/12 10:31	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		03/23/12 10:31	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		03/23/12 10:31	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		03/23/12 10:31	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		03/23/12 10:31	156-60-5	
Dichlorofluoromethane	ND	ug/L	1.0	1		03/23/12 10:31	75-43-4	
1,2-Dichloropropane	ND	ug/L	4.0	1		03/23/12 10:31	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		03/23/12 10:31	142-28-9	
2,2-Dichloropropane	ND	ug/L	4.0	1		03/23/12 10:31	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		03/23/12 10:31	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	4.0	1		03/23/12 10:31	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	4.0	1		03/23/12 10:31	10061-02-6	
Diethyl ether (Ethyl ether)	ND	ug/L	4.0	1		03/23/12 10:31	60-29-7	
Ethylbenzene	ND	ug/L	1.0	1		03/23/12 10:31	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	5.0	1		03/23/12 10:31	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		03/23/12 10:31	98-82-8	
p-Isopropyltoluene	ND	ug/L	1.0	1		03/23/12 10:31	99-87-6	
Methylene Chloride	ND	ug/L	4.0	1		03/23/12 10:31	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	4.0	1		03/23/12 10:31	108-10-1	

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ANALYTICAL RESULTS

Project: CRC CITY OF ROCHESTER
Pace Project No.: 10186032

Sample: AS-INFLUENT **Lab ID: 10186032001** Collected: 03/16/12 11:31 Received: 03/19/12 11:18 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		03/23/12 10:31	1634-04-4	
Naphthalene	ND	ug/L	4.0	1		03/23/12 10:31	91-20-3	
n-Propylbenzene	ND	ug/L	1.0	1		03/23/12 10:31	103-65-1	
Styrene	ND	ug/L	1.0	1		03/23/12 10:31	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		03/23/12 10:31	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		03/23/12 10:31	79-34-5	
Tetrachloroethene	**86.5**	ug/L	1.0	1		03/23/12 10:31	127-18-4	M1
Tetrahydrofuran	ND	ug/L	10.0	1		03/23/12 10:31	109-99-9	
Toluene	ND	ug/L	1.0	1		03/23/12 10:31	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		03/23/12 10:31	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		03/23/12 10:31	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		03/23/12 10:31	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		03/23/12 10:31	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		03/23/12 10:31	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		03/23/12 10:31	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	4.0	1		03/23/12 10:31	96-18-4	
1,1,2-Trichlorotrifluoroethane	**1.2**	ug/L	1.0	1		03/23/12 10:31	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1		03/23/12 10:31	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1		03/23/12 10:31	108-67-8	
Vinyl chloride	ND	ug/L	0.40	1		03/23/12 10:31	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		03/23/12 10:31	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		03/23/12 10:31	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		03/23/12 10:31	95-47-6	
Surrogates								
Dibromofluoromethane (S)	104	%	75-125	1		03/23/12 10:31	1868-53-7	
1,2-Dichloroethane-d4 (S)	106	%	75-125	1		03/23/12 10:31	17060-07-0	
Toluene-d8 (S)	100	%	75-125	1		03/23/12 10:31	2037-26-5	
4-Bromofluorobenzene (S)	102	%	75-125	1		03/23/12 10:31	460-00-4	

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ANALYTICAL RESULTS

Project: CRC CITY OF ROCHESTER
Pace Project No.: 10186032

Sample: AS-EFFLUENT **Lab ID: 10186032002** Collected: 03/16/12 11:40 Received: 03/19/12 11:18 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		03/23/12 10:46	67-64-1	
Allyl chloride	ND	ug/L	4.0	1		03/23/12 10:46	107-05-1	
Benzene	ND	ug/L	1.0	1		03/23/12 10:46	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		03/23/12 10:46	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		03/23/12 10:46	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		03/23/12 10:46	75-27-4	
Bromoform	ND	ug/L	4.0	1		03/23/12 10:46	75-25-2	
Bromomethane	ND	ug/L	4.0	1		03/23/12 10:46	74-83-9	
2-Butanone (MEK)	ND	ug/L	4.0	1		03/23/12 10:46	78-93-3	
n-Butylbenzene	ND	ug/L	1.0	1		03/23/12 10:46	104-51-8	
sec-Butylbenzene	ND	ug/L	1.0	1		03/23/12 10:46	135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	1		03/23/12 10:46	98-06-6	
Carbon tetrachloride	ND	ug/L	1.0	1		03/23/12 10:46	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		03/23/12 10:46	108-90-7	
Chloroethane	ND	ug/L	1.0	1		03/23/12 10:46	75-00-3	
2-Chloroethylvinyl ether	ND	ug/L	10.0	1		03/23/12 10:46	110-75-8	
Chloroform	ND	ug/L	1.0	1		03/23/12 10:46	67-66-3	
Chloromethane	ND	ug/L	4.0	1		03/23/12 10:46	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		03/23/12 10:46	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		03/23/12 10:46	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	4.0	1		03/23/12 10:46	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		03/23/12 10:46	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		03/23/12 10:46	106-93-4	
Dibromomethane	ND	ug/L	4.0	1		03/23/12 10:46	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		03/23/12 10:46	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		03/23/12 10:46	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		03/23/12 10:46	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		03/23/12 10:46	75-71-8	L2
1,1-Dichloroethane	ND	ug/L	1.0	1		03/23/12 10:46	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		03/23/12 10:46	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		03/23/12 10:46	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		03/23/12 10:46	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		03/23/12 10:46	156-60-5	
Dichlorofluoromethane	ND	ug/L	1.0	1		03/23/12 10:46	75-43-4	
1,2-Dichloropropane	ND	ug/L	4.0	1		03/23/12 10:46	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		03/23/12 10:46	142-28-9	
2,2-Dichloropropane	ND	ug/L	4.0	1		03/23/12 10:46	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		03/23/12 10:46	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	4.0	1		03/23/12 10:46	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	4.0	1		03/23/12 10:46	10061-02-6	
Diethyl ether (Ethyl ether)	ND	ug/L	4.0	1		03/23/12 10:46	60-29-7	
Ethylbenzene	ND	ug/L	1.0	1		03/23/12 10:46	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	5.0	1		03/23/12 10:46	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		03/23/12 10:46	98-82-8	
p-Isopropyltoluene	ND	ug/L	1.0	1		03/23/12 10:46	99-87-6	
Methylene Chloride	ND	ug/L	4.0	1		03/23/12 10:46	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	4.0	1		03/23/12 10:46	108-10-1	

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ANALYTICAL RESULTS

Project: CRC CITY OF ROCHESTER
Pace Project No.: 10186032

Sample: AS-EFFLUENT **Lab ID: 10186032002** Collected: 03/16/12 11:40 Received: 03/19/12 11:18 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		03/23/12 10:46	1634-04-4	
Naphthalene	ND	ug/L	4.0	1		03/23/12 10:46	91-20-3	
n-Propylbenzene	ND	ug/L	1.0	1		03/23/12 10:46	103-65-1	
Styrene	ND	ug/L	1.0	1		03/23/12 10:46	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		03/23/12 10:46	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		03/23/12 10:46	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		03/23/12 10:46	127-18-4	
Tetrahydrofuran	ND	ug/L	10.0	1		03/23/12 10:46	109-99-9	
Toluene	ND	ug/L	1.0	1		03/23/12 10:46	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		03/23/12 10:46	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		03/23/12 10:46	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		03/23/12 10:46	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		03/23/12 10:46	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		03/23/12 10:46	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		03/23/12 10:46	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	4.0	1		03/23/12 10:46	96-18-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/L	1.0	1		03/23/12 10:46	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1		03/23/12 10:46	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1		03/23/12 10:46	108-67-8	
Vinyl chloride	ND	ug/L	0.40	1		03/23/12 10:46	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		03/23/12 10:46	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		03/23/12 10:46	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		03/23/12 10:46	95-47-6	
Surrogates								
Dibromofluoromethane (S)	102	%	75-125	1		03/23/12 10:46	1868-53-7	
1,2-Dichloroethane-d4 (S)	106	%	75-125	1		03/23/12 10:46	17060-07-0	
Toluene-d8 (S)	99	%	75-125	1		03/23/12 10:46	2037-26-5	
4-Bromofluorobenzene (S)	100	%	75-125	1		03/23/12 10:46	460-00-4	

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ANALYTICAL RESULTS

Project: CRC CITY OF ROCHESTER
Pace Project No.: 10186032

Sample: TRIP BLANK **Lab ID: 10186032003** Collected: Received: 03/19/12 11:18 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		03/23/12 10:17	67-64-1	
Allyl chloride	ND	ug/L	4.0	1		03/23/12 10:17	107-05-1	
Benzene	ND	ug/L	1.0	1		03/23/12 10:17	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		03/23/12 10:17	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		03/23/12 10:17	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		03/23/12 10:17	75-27-4	
Bromoform	ND	ug/L	4.0	1		03/23/12 10:17	75-25-2	
Bromomethane	ND	ug/L	4.0	1		03/23/12 10:17	74-83-9	
2-Butanone (MEK)	ND	ug/L	4.0	1		03/23/12 10:17	78-93-3	
n-Butylbenzene	ND	ug/L	1.0	1		03/23/12 10:17	104-51-8	
sec-Butylbenzene	ND	ug/L	1.0	1		03/23/12 10:17	135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	1		03/23/12 10:17	98-06-6	
Carbon tetrachloride	ND	ug/L	1.0	1		03/23/12 10:17	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		03/23/12 10:17	108-90-7	
Chloroethane	ND	ug/L	1.0	1		03/23/12 10:17	75-00-3	
2-Chloroethylvinyl ether	ND	ug/L	10.0	1		03/23/12 10:17	110-75-8	
Chloroform	ND	ug/L	1.0	1		03/23/12 10:17	67-66-3	
Chloromethane	ND	ug/L	4.0	1		03/23/12 10:17	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		03/23/12 10:17	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		03/23/12 10:17	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	4.0	1		03/23/12 10:17	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		03/23/12 10:17	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		03/23/12 10:17	106-93-4	
Dibromomethane	ND	ug/L	4.0	1		03/23/12 10:17	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		03/23/12 10:17	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		03/23/12 10:17	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		03/23/12 10:17	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		03/23/12 10:17	75-71-8	L2
1,1-Dichloroethane	ND	ug/L	1.0	1		03/23/12 10:17	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		03/23/12 10:17	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		03/23/12 10:17	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		03/23/12 10:17	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		03/23/12 10:17	156-60-5	
Dichlorofluoromethane	ND	ug/L	1.0	1		03/23/12 10:17	75-43-4	
1,2-Dichloropropane	ND	ug/L	4.0	1		03/23/12 10:17	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		03/23/12 10:17	142-28-9	
2,2-Dichloropropane	ND	ug/L	4.0	1		03/23/12 10:17	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		03/23/12 10:17	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	4.0	1		03/23/12 10:17	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	4.0	1		03/23/12 10:17	10061-02-6	
Diethyl ether (Ethyl ether)	ND	ug/L	4.0	1		03/23/12 10:17	60-29-7	
Ethylbenzene	ND	ug/L	1.0	1		03/23/12 10:17	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	5.0	1		03/23/12 10:17	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		03/23/12 10:17	98-82-8	
p-Isopropyltoluene	ND	ug/L	1.0	1		03/23/12 10:17	99-87-6	
Methylene Chloride	ND	ug/L	4.0	1		03/23/12 10:17	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	4.0	1		03/23/12 10:17	108-10-1	

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ANALYTICAL RESULTS

Project: CRC CITY OF ROCHESTER
Pace Project No.: 10186032

Sample: TRIP BLANK **Lab ID: 10186032003** Collected: Received: 03/19/12 11:18 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		03/23/12 10:17	1634-04-4	
Naphthalene	ND	ug/L	4.0	1		03/23/12 10:17	91-20-3	
n-Propylbenzene	ND	ug/L	1.0	1		03/23/12 10:17	103-65-1	
Styrene	ND	ug/L	1.0	1		03/23/12 10:17	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		03/23/12 10:17	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		03/23/12 10:17	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		03/23/12 10:17	127-18-4	
Tetrahydrofuran	ND	ug/L	10.0	1		03/23/12 10:17	109-99-9	
Toluene	ND	ug/L	1.0	1		03/23/12 10:17	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		03/23/12 10:17	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		03/23/12 10:17	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		03/23/12 10:17	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		03/23/12 10:17	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		03/23/12 10:17	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		03/23/12 10:17	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	4.0	1		03/23/12 10:17	96-18-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/L	1.0	1		03/23/12 10:17	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1		03/23/12 10:17	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1		03/23/12 10:17	108-67-8	
Vinyl chloride	ND	ug/L	0.40	1		03/23/12 10:17	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		03/23/12 10:17	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		03/23/12 10:17	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		03/23/12 10:17	95-47-6	
Surrogates								
Dibromofluoromethane (S)	102	%	75-125	1		03/23/12 10:17	1868-53-7	
1,2-Dichloroethane-d4 (S)	105	%	75-125	1		03/23/12 10:17	17060-07-0	
Toluene-d8 (S)	101	%	75-125	1		03/23/12 10:17	2037-26-5	
4-Bromofluorobenzene (S)	101	%	75-125	1		03/23/12 10:17	460-00-4	

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QUALITY CONTROL DATA

Project: CRC CITY OF ROCHESTER
Pace Project No.: 10186032

QC Batch: MSV/19535 Analysis Method: EPA 624
QC Batch Method: EPA 624 Analysis Description: 624 MSV
Associated Lab Samples: 10186032001, 10186032002, 10186032003

METHOD BLANK: 1159673 Matrix: Water
Associated Lab Samples: 10186032001, 10186032002, 10186032003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	1.0	03/23/12 10:02	
1,1,1-Trichloroethane	ug/L	ND	1.0	03/23/12 10:02	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	03/23/12 10:02	
1,1,2-Trichloroethane	ug/L	ND	1.0	03/23/12 10:02	
1,1,2-Trichlorotrifluoroethane	ug/L	ND	1.0	03/23/12 10:02	
1,1-Dichloroethane	ug/L	ND	1.0	03/23/12 10:02	
1,1-Dichloroethene	ug/L	ND	1.0	03/23/12 10:02	
1,1-Dichloropropene	ug/L	ND	1.0	03/23/12 10:02	
1,2,3-Trichlorobenzene	ug/L	ND	1.0	03/23/12 10:02	
1,2,3-Trichloropropane	ug/L	ND	4.0	03/23/12 10:02	
1,2,4-Trichlorobenzene	ug/L	ND	1.0	03/23/12 10:02	
1,2,4-Trimethylbenzene	ug/L	ND	1.0	03/23/12 10:02	
1,2-Dibromo-3-chloropropane	ug/L	ND	4.0	03/23/12 10:02	
1,2-Dibromoethane (EDB)	ug/L	ND	1.0	03/23/12 10:02	
1,2-Dichlorobenzene	ug/L	ND	1.0	03/23/12 10:02	
1,2-Dichloroethane	ug/L	ND	1.0	03/23/12 10:02	
1,2-Dichloropropane	ug/L	ND	4.0	03/23/12 10:02	
1,3,5-Trimethylbenzene	ug/L	ND	1.0	03/23/12 10:02	
1,3-Dichlorobenzene	ug/L	ND	1.0	03/23/12 10:02	
1,3-Dichloropropane	ug/L	ND	1.0	03/23/12 10:02	
1,4-Dichlorobenzene	ug/L	ND	1.0	03/23/12 10:02	
2,2-Dichloropropane	ug/L	ND	4.0	03/23/12 10:02	
2-Butanone (MEK)	ug/L	ND	4.0	03/23/12 10:02	
2-Chloroethylvinyl ether	ug/L	ND	10.0	03/23/12 10:02	
2-Chlorotoluene	ug/L	ND	1.0	03/23/12 10:02	
4-Chlorotoluene	ug/L	ND	1.0	03/23/12 10:02	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	4.0	03/23/12 10:02	
Acetone	ug/L	ND	25.0	03/23/12 10:02	
Allyl chloride	ug/L	ND	4.0	03/23/12 10:02	
Benzene	ug/L	ND	1.0	03/23/12 10:02	
Bromobenzene	ug/L	ND	1.0	03/23/12 10:02	
Bromochloromethane	ug/L	ND	1.0	03/23/12 10:02	
Bromodichloromethane	ug/L	ND	1.0	03/23/12 10:02	
Bromoform	ug/L	ND	4.0	03/23/12 10:02	
Bromomethane	ug/L	ND	4.0	03/23/12 10:02	
Carbon tetrachloride	ug/L	ND	1.0	03/23/12 10:02	
Chlorobenzene	ug/L	ND	1.0	03/23/12 10:02	
Chloroethane	ug/L	ND	1.0	03/23/12 10:02	
Chloroform	ug/L	ND	1.0	03/23/12 10:02	
Chloromethane	ug/L	ND	4.0	03/23/12 10:02	
cis-1,2-Dichloroethene	ug/L	ND	1.0	03/23/12 10:02	
cis-1,3-Dichloropropene	ug/L	ND	4.0	03/23/12 10:02	
Dibromochloromethane	ug/L	ND	1.0	03/23/12 10:02	

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QUALITY CONTROL DATA

Project: CRC CITY OF ROCHESTER
Pace Project No.: 10186032

METHOD BLANK: 1159673 Matrix: Water

Associated Lab Samples: 10186032001, 10186032002, 10186032003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Dibromomethane	ug/L	ND	4.0	03/23/12 10:02	
Dichlorodifluoromethane	ug/L	ND	1.0	03/23/12 10:02	
Dichlorofluoromethane	ug/L	ND	1.0	03/23/12 10:02	
Diethyl ether (Ethyl ether)	ug/L	ND	4.0	03/23/12 10:02	
Ethylbenzene	ug/L	ND	1.0	03/23/12 10:02	
Hexachloro-1,3-butadiene	ug/L	ND	5.0	03/23/12 10:02	
Isopropylbenzene (Cumene)	ug/L	ND	1.0	03/23/12 10:02	
m&p-Xylene	ug/L	ND	2.0	03/23/12 10:02	
Methyl-tert-butyl ether	ug/L	ND	1.0	03/23/12 10:02	
Methylene Chloride	ug/L	ND	4.0	03/23/12 10:02	
n-Butylbenzene	ug/L	ND	1.0	03/23/12 10:02	
n-Propylbenzene	ug/L	ND	1.0	03/23/12 10:02	
Naphthalene	ug/L	ND	4.0	03/23/12 10:02	
o-Xylene	ug/L	ND	1.0	03/23/12 10:02	
p-Isopropyltoluene	ug/L	ND	1.0	03/23/12 10:02	
sec-Butylbenzene	ug/L	ND	1.0	03/23/12 10:02	
Styrene	ug/L	ND	1.0	03/23/12 10:02	
tert-Butylbenzene	ug/L	ND	1.0	03/23/12 10:02	
Tetrachloroethene	ug/L	ND	1.0	03/23/12 10:02	
Tetrahydrofuran	ug/L	ND	10.0	03/23/12 10:02	
Toluene	ug/L	ND	1.0	03/23/12 10:02	
trans-1,2-Dichloroethene	ug/L	ND	1.0	03/23/12 10:02	
trans-1,3-Dichloropropene	ug/L	ND	4.0	03/23/12 10:02	
Trichloroethene	ug/L	ND	1.0	03/23/12 10:02	
Trichlorofluoromethane	ug/L	ND	1.0	03/23/12 10:02	
Vinyl chloride	ug/L	ND	0.40	03/23/12 10:02	
Xylene (Total)	ug/L	ND	3.0	03/23/12 10:02	
1,2-Dichloroethane-d4 (S)	%	107	75-125	03/23/12 10:02	
4-Bromofluorobenzene (S)	%	102	75-125	03/23/12 10:02	
Dibromofluoromethane (S)	%	103	75-125	03/23/12 10:02	
Toluene-d8 (S)	%	102	75-125	03/23/12 10:02	

LABORATORY CONTROL SAMPLE: 1159674

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	47.4	95	75-125	
1,1,1-Trichloroethane	ug/L	50	46.5	93	75-129	
1,1,2,2-Tetrachloroethane	ug/L	50	48.7	97	69-126	
1,1,2-Trichloroethane	ug/L	50	49.2	98	75-125	
1,1,2-Trichlorotrifluoroethane	ug/L	50	38.7	77	70-127	
1,1-Dichloroethane	ug/L	50	48.2	96	75-128	
1,1-Dichloroethene	ug/L	50	46.4	93	72-130	
1,1-Dichloropropene	ug/L	50	45.6	91	75-130	
1,2,3-Trichlorobenzene	ug/L	50	45.3	91	75-125	
1,2,3-Trichloropropane	ug/L	50	48.3	97	75-125	

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QUALITY CONTROL DATA

Project: CRC CITY OF ROCHESTER
Pace Project No.: 10186032

LABORATORY CONTROL SAMPLE: 1159674

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,4-Trichlorobenzene	ug/L	50	45.3	91	75-126	
1,2,4-Trimethylbenzene	ug/L	50	44.4	89	75-125	
1,2-Dibromo-3-chloropropane	ug/L	50	45.5	91	72-125	
1,2-Dibromoethane (EDB)	ug/L	50	48.6	97	75-125	
1,2-Dichlorobenzene	ug/L	50	44.8	90	75-125	
1,2-Dichloroethane	ug/L	50	48.9	98	75-125	
1,2-Dichloropropane	ug/L	50	48.1	96	75-125	
1,3,5-Trimethylbenzene	ug/L	50	44.2	88	75-125	
1,3-Dichlorobenzene	ug/L	50	44.0	88	75-125	
1,3-Dichloropropane	ug/L	50	49.0	98	75-125	
1,4-Dichlorobenzene	ug/L	50	44.4	89	75-125	
2,2-Dichloropropane	ug/L	50	47.9	96	75-133	
2-Butanone (MEK)	ug/L	50	41.0	82	62-132	
2-Chloroethylvinyl ether	ug/L	125	94.0	75	75-125	
2-Chlorotoluene	ug/L	50	43.9	88	74-126	
4-Chlorotoluene	ug/L	50	44.3	89	75-126	
4-Methyl-2-pentanone (MIBK)	ug/L	50	48.8	98	73-125	
Acetone	ug/L	125	116	93	35-150	
Allyl chloride	ug/L	50	46.7	93	71-139	
Benzene	ug/L	50	46.1	92	74-126	
Bromobenzene	ug/L	50	45.8	92	75-125	
Bromochloromethane	ug/L	50	50.1	100	75-125	
Bromodichloromethane	ug/L	50	48.5	97	75-125	
Bromoform	ug/L	50	48.1	96	75-126	
Bromomethane	ug/L	50	37.2	74	59-146	
Carbon tetrachloride	ug/L	50	46.3	93	72-133	
Chlorobenzene	ug/L	50	45.0	90	75-125	
Chloroethane	ug/L	50	46.6	93	73-138	
Chloroform	ug/L	50	47.6	95	75-125	
Chloromethane	ug/L	50	39.8	80	68-129	
cis-1,2-Dichloroethene	ug/L	50	46.9	94	75-125	
cis-1,3-Dichloropropene	ug/L	50	49.5	99	75-125	
Dibromochloromethane	ug/L	50	45.2	90	75-125	
Dibromomethane	ug/L	50	49.3	99	75-125	
Dichlorodifluoromethane	ug/L	50	35.2	70	75-150	L0
Dichlorofluoromethane	ug/L	50	47.7	95	75-128	
Diethyl ether (Ethyl ether)	ug/L	50	51.0	102	75-125	
Ethylbenzene	ug/L	50	44.9	90	75-125	
Hexachloro-1,3-butadiene	ug/L	25	22.8	91	61-133	
Isopropylbenzene (Cumene)	ug/L	50	44.6	89	75-125	
m&p-Xylene	ug/L	100	90.1	90	75-125	
Methyl-tert-butyl ether	ug/L	50	50.0	100	75-125	
Methylene Chloride	ug/L	50	45.9	92	75-125	
n-Butylbenzene	ug/L	50	44.5	89	72-130	
n-Propylbenzene	ug/L	50	44.1	88	74-129	
Naphthalene	ug/L	50	45.3	91	75-125	
o-Xylene	ug/L	50	44.6	89	75-125	
p-Isopropyltoluene	ug/L	50	44.0	88	73-130	

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QUALITY CONTROL DATA

Project: CRC CITY OF ROCHESTER
Pace Project No.: 10186032

LABORATORY CONTROL SAMPLE: 1159674

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
sec-Butylbenzene	ug/L	50	44.0	88	71-131	
Styrene	ug/L	50	46.7	93	75-125	
tert-Butylbenzene	ug/L	50	43.7	87	73-129	
Tetrachloroethene	ug/L	50	43.7	87	74-127	
Tetrahydrofuran	ug/L	500	432	86	71-127	
Toluene	ug/L	50	46.7	93	75-125	
trans-1,2-Dichloroethene	ug/L	50	45.9	92	74-127	
trans-1,3-Dichloropropene	ug/L	50	49.7	99	75-125	
Trichloroethene	ug/L	50	44.6	89	75-125	
Trichlorofluoromethane	ug/L	50	43.0	86	75-150	
Vinyl chloride	ug/L	50	45.4	91	75-132	
Xylene (Total)	ug/L	150	135	90	75-125	
1,2-Dichloroethane-d4 (S)	%			101	75-125	
4-Bromofluorobenzene (S)	%			100	75-125	
Dibromofluoromethane (S)	%			102	75-125	
Toluene-d8 (S)	%			102	75-125	

MATRIX SPIKE SAMPLE: 1159694

Parameter	Units	10186032001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	50	50.5	101	75-126	
1,1,1-Trichloroethane	ug/L	ND	50	56.0	112	75-141	
1,1,2,2-Tetrachloroethane	ug/L	ND	50	48.8	98	68-129	
1,1,2-Trichloroethane	ug/L	ND	50	50.2	100	75-125	
1,1,2-Trichlorotrifluoroethane	ug/L	1.2	50	59.7	117	75-150	
1,1-Dichloroethane	ug/L	ND	50	55.4	111	75-139	
1,1-Dichloroethene	ug/L	ND	50	57.9	116	75-147	
1,1-Dichloropropene	ug/L	ND	50	56.6	113	75-150	
1,2,3-Trichlorobenzene	ug/L	ND	50	46.4	93	75-125	
1,2,3-Trichloropropane	ug/L	ND	50	49.4	99	71-125	
1,2,4-Trichlorobenzene	ug/L	ND	50	47.4	95	75-127	
1,2,4-Trimethylbenzene	ug/L	ND	50	49.9	100	74-133	
1,2-Dibromo-3-chloropropane	ug/L	ND	50	43.9	88	69-125	
1,2-Dibromoethane (EDB)	ug/L	ND	50	49.8	100	75-125	
1,2-Dichlorobenzene	ug/L	ND	50	48.5	97	75-125	
1,2-Dichloroethane	ug/L	ND	50	52.3	105	75-130	
1,2-Dichloropropane	ug/L	ND	50	51.6	103	75-129	
1,3,5-Trimethylbenzene	ug/L	ND	50	50.0	100	72-135	
1,3-Dichlorobenzene	ug/L	ND	50	49.1	98	75-125	
1,3-Dichloropropane	ug/L	ND	50	49.6	99	75-125	
1,4-Dichlorobenzene	ug/L	ND	50	48.2	96	75-125	
2,2-Dichloropropane	ug/L	ND	50	58.3	117	75-150	
2-Butanone (MEK)	ug/L	ND	50	38.0	76	56-126	
2-Chloroethylvinyl ether	ug/L	ND	125	19.8	16	30-125	M1
2-Chlorotoluene	ug/L	ND	50	50.5	101	75-130	
4-Chlorotoluene	ug/L	ND	50	50.3	101	75-127	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	50	47.3	95	69-128	

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QUALITY CONTROL DATA

Project: CRC CITY OF ROCHESTER
Pace Project No.: 10186032

MATRIX SPIKE SAMPLE: 1159694

Parameter	Units	10186032001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Acetone	ug/L	ND	125	127	102	32-129	
Allyl chloride	ug/L	ND	50	55.6	111	61-150	
Benzene	ug/L	ND	50	52.9	106	75-135	
Bromobenzene	ug/L	ND	50	49.4	99	75-125	
Bromochloromethane	ug/L	ND	50	53.6	107	75-128	
Bromodichloromethane	ug/L	ND	50	52.4	105	75-127	
Bromoform	ug/L	ND	50	47.9	96	76-125	
Bromomethane	ug/L	ND	50	47.0	94	64-150	
Carbon tetrachloride	ug/L	ND	50	58.1	116	75-148	
Chlorobenzene	ug/L	ND	50	49.4	99	75-125	
Chloroethane	ug/L	ND	50	56.7	113	75-146	
Chloroform	ug/L	ND	50	54.6	109	75-131	
Chloromethane	ug/L	4.0	50	62.2	116	73-141	
cis-1,2-Dichloroethene	ug/L	ND	50	53.7	107	75-136	
cis-1,3-Dichloropropene	ug/L	ND	50	51.6	103	75-130	
Dibromochloromethane	ug/L	ND	50	46.5	93	75-125	
Dibromomethane	ug/L	ND	50	50.7	101	75-125	
Dichlorodifluoromethane	ug/L	ND	50	55.3	111	75-150	
Dichlorofluoromethane	ug/L	ND	50	56.6	113	75-140	
Diethyl ether (Ethyl ether)	ug/L	ND	50	52.8	106	75-129	
Ethylbenzene	ug/L	ND	50	50.3	101	75-129	
Hexachloro-1,3-butadiene	ug/L	ND	25	25.9	103	72-139	
Isopropylbenzene (Cumene)	ug/L	ND	50	51.1	102	75-131	
m&p-Xylene	ug/L	ND	100	100	100	75-129	
Methyl-tert-butyl ether	ug/L	ND	50	52.3	105	75-131	
Methylene Chloride	ug/L	ND	50	50.3	101	74-125	
n-Butylbenzene	ug/L	ND	50	52.5	105	75-138	
n-Propylbenzene	ug/L	ND	50	51.8	104	75-134	
Naphthalene	ug/L	ND	50	45.9	92	75-125	
o-Xylene	ug/L	ND	50	49.2	98	75-128	
p-Isopropyltoluene	ug/L	ND	50	51.1	102	75-136	
sec-Butylbenzene	ug/L	ND	50	51.6	103	75-135	
Styrene	ug/L	ND	50	50.3	101	59-144	
tert-Butylbenzene	ug/L	ND	50	51.0	102	75-133	
Tetrachloroethene	ug/L	86.5	50	118	63	75-136	M1
Tetrahydrofuran	ug/L	ND	500	404	81	64-134	
Toluene	ug/L	ND	50	51.5	103	75-127	
trans-1,2-Dichloroethene	ug/L	ND	50	55.0	110	75-142	
trans-1,3-Dichloropropene	ug/L	ND	50	51.9	104	74-129	
Trichloroethene	ug/L	ND	50	50.9	102	75-136	
Trichlorofluoromethane	ug/L	ND	50	60.0	120	75-150	
Vinyl chloride	ug/L	ND	50	58.5	117	75-150	
Xylene (Total)	ug/L	ND	150	150	100	75-128	
1,2-Dichloroethane-d4 (S)	%				104	75-125	
4-Bromofluorobenzene (S)	%				101	75-125	
Dibromofluoromethane (S)	%				103	75-125	
Toluene-d8 (S)	%				101	75-125	

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QUALITY CONTROL DATA

Project: CRC CITY OF ROCHESTER
Pace Project No.: 10186032

SAMPLE DUPLICATE: 1159695

Parameter	Units	10186032002 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	ND		30	
2,2-Dichloropropane	ug/L	ND	ND		30	
2-Butanone (MEK)	ug/L	ND	ND		30	
2-Chloroethylvinyl ether	ug/L	ND	ND		30	
2-Chlorotoluene	ug/L	ND	ND		30	
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	

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QUALITY CONTROL DATA

Project: CRC CITY OF ROCHESTER
Pace Project No.: 10186032

SAMPLE DUPLICATE: 1159695

Parameter	Units	10186032002 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	1.0		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)	%	106	107	1		
4-Bromofluorobenzene (S)	%	100	101	.9		
Dibromofluoromethane (S)	%	102	103	1		
Toluene-d8 (S)	%	99	99	.3		

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QUALIFIERS

Project: CRC CITY OF ROCHESTER
Pace Project No.: 10186032

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.

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

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

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

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

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

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: CRC CITY OF ROCHESTER
Pace Project No.: 10186032

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10186032001	**AS-INFLUENT**	EPA 624	MSV/19535		
10186032002	**AS-EFFLUENT**	EPA 624	MSV/19535		
10186032003	**TRIP BLANK**	EPA 624	MSV/19535		

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1124

CHAIN-OF-CUSTODY / Analytical Request Document

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

10186032

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

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER

☐ UST ☐ RCRA ☐ THER_____

SITE LOCATION ☐ BA ☐ _ ☐ NJ ☐ ☐ ☐ OH ☐ SC ☐ VI ☐ THER____

Filtered (Y/N)

Requested Ana

EPA 624

Pace Project Number Lab I.D.

Section D **Required** Client Information

SAMPLE ID

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

Samples

Valid Matrix Codes

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

ITEM #	Samples	MATRIX CODE	SAMPLE TYPE G=GRAB C=COMP	COLLECTED COMPOSITE START DATE	COLLECTED COMPOSITE START TIME	COLLECTED COMPOSITE END/GRAB DATE	COLLECTED COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	#OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	EPA 624	Pace Project Number Lab I.D.
1	AS-Influent	W	G	3/16/12	11:31				3									X	001
2	AS-Effluent	W	G	3/16/12	11:40				3									X	002
3																			003
4																			
5																			
6																			
7																			
8																			
5																			
6																			
7																			
8																			

Additional Comments:

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
				3/19/12	1118

SAMPLE CONDITIONS

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

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER:

SIGNATURE of SAMPLER: Eric Gabrielson

DATE Signed (MM / DD / YY): 3/19/12

Pace Analytical®	Document Name: **Sample Condition Upon Receipt Form**	Revised Date: 15Feb2012 Page 1 of 1
	Document Number: **F-MN-L-213-rev.02**	Issuing Authority: Pace Minnesota Quality Office

Sample Condition Upon Receipt

Client Name: Landmark Project # 10196032

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

Tracking #: _____

Optional: Proj. Due Date: Proj. Name:

Custody Seal on Cooler/Box Present: ☐ yes ☒ no Seals intact: ☐ yes ☒ no

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☐ None ☐ Other _____ Temp Blank: Yes ____ No ____

Thermometer Used 80344042 or 80512447 **Type of Ice:** Wet Blue None ☐ Samples on ice, cooling process has begun

Cooler Temperature _____ **Biological Tissue is Frozen:** Yes No

Temp should be above freezing to 6°C

Date and Initials of person examining contents: _____

		Comments:
Chain of Custody Present:	☑Yes ☐No ☐N/A	1.
Chain of Custody Filled Out:	☑Yes ☐No ☐N/A	2.
Chain of Custody Relinquished:	☐Yes ☒No ☐N/A	3.
Sampler Name & Signature on COC:	☑Yes ☐No ☐N/A	4.
Samples Arrived within Hold Time:	☑Yes ☐No ☐N/A	5.
Short Hold Time Analysis (<72hr):	☐Yes ☒No ☐N/A	6.
Rush Turn Around Time Requested:	☐Yes ☒No ☐N/A	7.
Sufficient Volume:	☑Yes ☐No ☐N/A	8.
Correct Containers Used:	☑Yes ☐No ☐N/A	9.
-Pace Containers Used:	☑Yes ☐No ☐N/A	
Containers Intact:	☑Yes ☐No ☐N/A	10.
Filtered volume received for Dissolved tests	☐Yes ☒No ☐N/A	11.
Sample Labels match COC:	☑Yes ☐No ☐N/A	12.
-Includes date/time/ID/Analysis Matrix: WT		
All containers needing acid/base preservation have been checked. Noncompliance are noted in 13.	☐Yes ☐No ☒N/A	13. ☐ HNO3 ☐ H2SO4 ☐ NaOH ☐ HCl Samp #
All containers needing preservation are found to be in compliance with EPA recommendation. (HNO3, H2SO4, HCL<2; NaOH >12)	☐Yes ☐No ☒N/A	
Exceptions: VOA, Coliform, TOC, Oil and Grease, WI-DRO (water)	☑Yes ☐No	Initial when completed JB 3-19-12 Lot # of added preservative
Headspace in VOA Vials (>6mm):	☐Yes ☒No ☐N/A	14.
Trip Blank Present:	☑Yes ☐No ☐N/A	15. +Trip Blanks have headspace
Trip Blank Custody Seals Present	☑Yes ☐No ☐N/A	
Pace Trip Blank Lot # (if purchased): 612312-3		

Client Notification/ Resolution: Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: _____ **Date:** 3/20/12

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

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April 24, 2012

Eric Gabrielson
Landmark Environmental
2042 West 98th St.
Minneapolis, MN 55431

RE: Project: CRC CITY OF ROCHESTER
Pace Project No.: 10189408

Dear Eric Gabrielson:
Enclosed are the analytical results for sample(s) received by the laboratory on April 19, 2012. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

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

Sincerely,

Shawn Davis for
Carolynne Trout
carolynne.trout@pacelabs.com
Project Manager

Enclosures

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CERTIFICATIONS

Project: CRC CITY OF ROCHESTER
Pace Project No.: 10189408

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
EPA Region 8 Certification #: Pace
Florida/NELAP Certification #: E87605
Georgia Certification #: 959
Idaho Certification #: MN00064
Illinois Certification #: 200011
Iowa Certification #: 368
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 Mexico Certification #: Pace
New York Certification #: 11647
North Carolina Certification #: 530
North Dakota Certification #: R-036
North Dakota Certification #: R-036A
Ohio VAP Certification #: CL101
Oklahoma Certification #: D9921
Oklahoma Certification #: 9507
Oregon Certification #: MN200001
Pennsylvania Certification #: 68-00563
Puerto Rico Certification
Tennessee Certification #: 02818
Texas Certification #: T104704192
Washington Certification #: C754
Wisconsin Certification #: 999407970

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SAMPLE SUMMARY

Project: CRC CITY OF ROCHESTER
Pace Project No.: 10189408

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10189408001	**AS - INFLUENT**	Water	04/18/12 09:20	04/19/12 11:10
10189408002	**AS - EFFLUENT**	Water	04/18/12 09:25	04/19/12 11:10

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SAMPLE ANALYTE COUNT

Project: CRC CITY OF ROCHESTER
Pace Project No.: 10189408

Lab ID	Sample ID	Method	Analysts	Analytes Reported
10189408001	**AS - INFLUENT**	EPA 624	ECB	83
10189408002	**AS - EFFLUENT**	EPA 624	ECB	83

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ANALYTICAL RESULTS

Project: CRC CITY OF ROCHESTER
Pace Project No.: 10189408

Sample: AS - INFLUENT **Lab ID: 10189408001** Collected: 04/18/12 09:20 Received: 04/19/12 11:10 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		04/20/12 12:34	67-64-1	
Acrolein	ND	ug/L	10.0	1		04/20/12 12:34	107-02-8	
Acrylonitrile	ND	ug/L	10.0	1		04/20/12 12:34	107-13-1	
Allyl chloride	ND	ug/L	4.0	1		04/20/12 12:34	107-05-1	
Benzene	ND	ug/L	1.0	1		04/20/12 12:34	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		04/20/12 12:34	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		04/20/12 12:34	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		04/20/12 12:34	75-27-4	
Bromoform	ND	ug/L	4.0	1		04/20/12 12:34	75-25-2	
Bromomethane	ND	ug/L	4.0	1		04/20/12 12:34	74-83-9	
2-Butanone (MEK)	ND	ug/L	4.0	1		04/20/12 12:34	78-93-3	
n-Butylbenzene	ND	ug/L	1.0	1		04/20/12 12:34	104-51-8	
sec-Butylbenzene	ND	ug/L	1.0	1		04/20/12 12:34	135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	1		04/20/12 12:34	98-06-6	
Carbon disulfide	ND	ug/L	1.0	1		04/20/12 12:34	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	1		04/20/12 12:34	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		04/20/12 12:34	108-90-7	
Chloroethane	ND	ug/L	1.0	1		04/20/12 12:34	75-00-3	
2-Chloroethylvinyl ether	ND	ug/L	10.0	1		04/20/12 12:34	110-75-8	L3
Chloroform	ND	ug/L	1.0	1		04/20/12 12:34	67-66-3	
Chloromethane	ND	ug/L	4.0	1		04/20/12 12:34	74-87-3	
Chloroprene	ND	ug/L	1.0	1		04/20/12 12:34	126-99-8	
2-Chlorotoluene	ND	ug/L	1.0	1		04/20/12 12:34	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		04/20/12 12:34	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	4.0	1		04/20/12 12:34	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		04/20/12 12:34	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		04/20/12 12:34	106-93-4	
Dibromomethane	ND	ug/L	4.0	1		04/20/12 12:34	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		04/20/12 12:34	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		04/20/12 12:34	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		04/20/12 12:34	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		04/20/12 12:34	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		04/20/12 12:34	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		04/20/12 12:34	107-06-2	
1,2-Dichloroethene (Total)	ND	ug/L	2.0	1		04/20/12 12:34	540-59-0	
1,1-Dichloroethene	ND	ug/L	1.0	1		04/20/12 12:34	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		04/20/12 12:34	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		04/20/12 12:34	156-60-5	
Dichlorofluoromethane	ND	ug/L	1.0	1		04/20/12 12:34	75-43-4	
1,2-Dichloropropane	ND	ug/L	4.0	1		04/20/12 12:34	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		04/20/12 12:34	142-28-9	
2,2-Dichloropropane	ND	ug/L	4.0	1		04/20/12 12:34	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		04/20/12 12:34	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	4.0	1		04/20/12 12:34	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	4.0	1		04/20/12 12:34	10061-02-6	
Diethyl ether (Ethyl ether)	ND	ug/L	4.0	1		04/20/12 12:34	60-29-7	
Ethylbenzene	ND	ug/L	1.0	1		04/20/12 12:34	100-41-4	

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ANALYTICAL RESULTS

Project: CRC CITY OF ROCHESTER
Pace Project No.: 10189408

Sample: AS - INFLUENT **Lab ID: 10189408001** Collected: 04/18/12 09:20 Received: 04/19/12 11:10 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		04/20/12 12:34	87-68-3	
2-Hexanone	ND	ug/L	4.0	1		04/20/12 12:34	591-78-6	
Iodomethane	ND	ug/L	4.0	1		04/20/12 12:34	74-88-4	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		04/20/12 12:34	98-82-8	
p-Isopropyltoluene	ND	ug/L	1.0	1		04/20/12 12:34	99-87-6	
Methylene Chloride	ND	ug/L	4.0	1		04/20/12 12:34	75-09-2	
2-Methylnaphthalene	ND	ug/L	5.0	1		04/20/12 12:34	91-57-6	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	4.0	1		04/20/12 12:34	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		04/20/12 12:34	1634-04-4	
Naphthalene	ND	ug/L	4.0	1		04/20/12 12:34	91-20-3	
n-Propylbenzene	ND	ug/L	1.0	1		04/20/12 12:34	103-65-1	
Styrene	ND	ug/L	1.0	1		04/20/12 12:34	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		04/20/12 12:34	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		04/20/12 12:34	79-34-5	
Tetrachloroethene	**39.6**	ug/L	1.0	1		04/20/12 12:34	127-18-4	
Tetrahydrofuran	ND	ug/L	10.0	1		04/20/12 12:34	109-99-9	
Toluene	ND	ug/L	1.0	1		04/20/12 12:34	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		04/20/12 12:34	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		04/20/12 12:34	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		04/20/12 12:34	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		04/20/12 12:34	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		04/20/12 12:34	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		04/20/12 12:34	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	4.0	1		04/20/12 12:34	96-18-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/L	1.0	1		04/20/12 12:34	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1		04/20/12 12:34	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1		04/20/12 12:34	108-67-8	
Vinyl acetate	ND	ug/L	10.0	1		04/20/12 12:34	108-05-4	
Vinyl chloride	ND	ug/L	0.40	1		04/20/12 12:34	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		04/20/12 12:34	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		04/20/12 12:34	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		04/20/12 12:34	95-47-6	
Surrogates								
Dibromofluoromethane (S)	100	%	75-125	1		04/20/12 12:34	1868-53-7	
1,2-Dichloroethane-d4 (S)	100	%	75-125	1		04/20/12 12:34	17060-07-0	
Toluene-d8 (S)	98	%	75-125	1		04/20/12 12:34	2037-26-5	
4-Bromofluorobenzene (S)	98	%	75-125	1		04/20/12 12:34	460-00-4	

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ANALYTICAL RESULTS

Project: CRC CITY OF ROCHESTER
Pace Project No.: 10189408

Sample: AS - EFFLUENT **Lab ID: 10189408002** Collected: 04/18/12 09:25 Received: 04/19/12 11:10 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		04/20/12 12:48	67-64-1	
Acrolein	ND	ug/L	10.0	1		04/20/12 12:48	107-02-8	
Acrylonitrile	ND	ug/L	10.0	1		04/20/12 12:48	107-13-1	
Allyl chloride	ND	ug/L	4.0	1		04/20/12 12:48	107-05-1	
Benzene	ND	ug/L	1.0	1		04/20/12 12:48	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		04/20/12 12:48	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		04/20/12 12:48	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		04/20/12 12:48	75-27-4	
Bromoform	ND	ug/L	4.0	1		04/20/12 12:48	75-25-2	
Bromomethane	ND	ug/L	4.0	1		04/20/12 12:48	74-83-9	
2-Butanone (MEK)	ND	ug/L	4.0	1		04/20/12 12:48	78-93-3	
n-Butylbenzene	ND	ug/L	1.0	1		04/20/12 12:48	104-51-8	
sec-Butylbenzene	ND	ug/L	1.0	1		04/20/12 12:48	135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	1		04/20/12 12:48	98-06-6	
Carbon disulfide	ND	ug/L	1.0	1		04/20/12 12:48	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	1		04/20/12 12:48	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		04/20/12 12:48	108-90-7	
Chloroethane	ND	ug/L	1.0	1		04/20/12 12:48	75-00-3	
2-Chloroethylvinyl ether	ND	ug/L	10.0	1		04/20/12 12:48	110-75-8	L3
Chloroform	ND	ug/L	1.0	1		04/20/12 12:48	67-66-3	
Chloromethane	ND	ug/L	4.0	1		04/20/12 12:48	74-87-3	
Chloroprene	ND	ug/L	1.0	1		04/20/12 12:48	126-99-8	
2-Chlorotoluene	ND	ug/L	1.0	1		04/20/12 12:48	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		04/20/12 12:48	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	4.0	1		04/20/12 12:48	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		04/20/12 12:48	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		04/20/12 12:48	106-93-4	
Dibromomethane	ND	ug/L	4.0	1		04/20/12 12:48	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		04/20/12 12:48	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		04/20/12 12:48	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		04/20/12 12:48	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		04/20/12 12:48	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		04/20/12 12:48	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		04/20/12 12:48	107-06-2	
1,2-Dichloroethene (Total)	ND	ug/L	2.0	1		04/20/12 12:48	540-59-0	
1,1-Dichloroethene	ND	ug/L	1.0	1		04/20/12 12:48	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		04/20/12 12:48	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		04/20/12 12:48	156-60-5	
Dichlorofluoromethane	ND	ug/L	1.0	1		04/20/12 12:48	75-43-4	
1,2-Dichloropropane	ND	ug/L	4.0	1		04/20/12 12:48	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		04/20/12 12:48	142-28-9	
2,2-Dichloropropane	ND	ug/L	4.0	1		04/20/12 12:48	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		04/20/12 12:48	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	4.0	1		04/20/12 12:48	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	4.0	1		04/20/12 12:48	10061-02-6	
Diethyl ether (Ethyl ether)	ND	ug/L	4.0	1		04/20/12 12:48	60-29-7	
Ethylbenzene	ND	ug/L	1.0	1		04/20/12 12:48	100-41-4	

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ANALYTICAL RESULTS

Project: CRC CITY OF ROCHESTER
Pace Project No.: 10189408

Sample: AS - EFFLUENT **Lab ID: 10189408002** Collected: 04/18/12 09:25 Received: 04/19/12 11:10 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		04/20/12 12:48	87-68-3	
2-Hexanone	ND	ug/L	4.0	1		04/20/12 12:48	591-78-6	
Iodomethane	ND	ug/L	4.0	1		04/20/12 12:48	74-88-4	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		04/20/12 12:48	98-82-8	
p-Isopropyltoluene	ND	ug/L	1.0	1		04/20/12 12:48	99-87-6	
Methylene Chloride	ND	ug/L	4.0	1		04/20/12 12:48	75-09-2	
2-Methylnaphthalene	ND	ug/L	5.0	1		04/20/12 12:48	91-57-6	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	4.0	1		04/20/12 12:48	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		04/20/12 12:48	1634-04-4	
Naphthalene	ND	ug/L	4.0	1		04/20/12 12:48	91-20-3	
n-Propylbenzene	ND	ug/L	1.0	1		04/20/12 12:48	103-65-1	
Styrene	ND	ug/L	1.0	1		04/20/12 12:48	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		04/20/12 12:48	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		04/20/12 12:48	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		04/20/12 12:48	127-18-4	
Tetrahydrofuran	ND	ug/L	10.0	1		04/20/12 12:48	109-99-9	
Toluene	ND	ug/L	1.0	1		04/20/12 12:48	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		04/20/12 12:48	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		04/20/12 12:48	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		04/20/12 12:48	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		04/20/12 12:48	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		04/20/12 12:48	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		04/20/12 12:48	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	4.0	1		04/20/12 12:48	96-18-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/L	1.0	1		04/20/12 12:48	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1		04/20/12 12:48	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1		04/20/12 12:48	108-67-8	
Vinyl acetate	ND	ug/L	10.0	1		04/20/12 12:48	108-05-4	
Vinyl chloride	ND	ug/L	0.40	1		04/20/12 12:48	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		04/20/12 12:48	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		04/20/12 12:48	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		04/20/12 12:48	95-47-6	
Surrogates								
Dibromofluoromethane (S)	98	%	75-125	1		04/20/12 12:48	1868-53-7	
1,2-Dichloroethane-d4 (S)	100	%	75-125	1		04/20/12 12:48	17060-07-0	
Toluene-d8 (S)	99	%	75-125	1		04/20/12 12:48	2037-26-5	
4-Bromofluorobenzene (S)	98	%	75-125	1		04/20/12 12:48	460-00-4	

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QUALITY CONTROL DATA

Project: CRC CITY OF ROCHESTER
Pace Project No.: 10189408

QC Batch: MSV/19918 Analysis Method: EPA 624
QC Batch Method: EPA 624 Analysis Description: 624 MSV
Associated Lab Samples: 10189408001, 10189408002

METHOD BLANK: 1177773 Matrix: Water
Associated Lab Samples: 10189408001, 10189408002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	1.0	04/20/12 09:26	
1,1,1-Trichloroethane	ug/L	ND	1.0	04/20/12 09:26	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	04/20/12 09:26	
1,1,2-Trichloroethane	ug/L	ND	1.0	04/20/12 09:26	
1,1,2-Trichlorotrifluoroethane	ug/L	ND	1.0	04/20/12 09:26	
1,1-Dichloroethane	ug/L	ND	1.0	04/20/12 09:26	
1,1-Dichloroethene	ug/L	ND	1.0	04/20/12 09:26	
1,1-Dichloropropene	ug/L	ND	1.0	04/20/12 09:26	
1,2,3-Trichlorobenzene	ug/L	ND	1.0	04/20/12 09:26	
1,2,3-Trichloropropane	ug/L	ND	4.0	04/20/12 09:26	
1,2,4-Trichlorobenzene	ug/L	ND	1.0	04/20/12 09:26	
1,2,4-Trimethylbenzene	ug/L	ND	1.0	04/20/12 09:26	
1,2-Dibromo-3-chloropropane	ug/L	ND	4.0	04/20/12 09:26	
1,2-Dibromoethane (EDB)	ug/L	ND	1.0	04/20/12 09:26	
1,2-Dichlorobenzene	ug/L	ND	1.0	04/20/12 09:26	
1,2-Dichloroethane	ug/L	ND	1.0	04/20/12 09:26	
1,2-Dichloroethene (Total)	ug/L	ND	2.0	04/20/12 09:26	
1,2-Dichloropropane	ug/L	ND	4.0	04/20/12 09:26	
1,3,5-Trimethylbenzene	ug/L	ND	1.0	04/20/12 09:26	
1,3-Dichlorobenzene	ug/L	ND	1.0	04/20/12 09:26	
1,3-Dichloropropane	ug/L	ND	1.0	04/20/12 09:26	
1,4-Dichlorobenzene	ug/L	ND	1.0	04/20/12 09:26	
2,2-Dichloropropane	ug/L	ND	4.0	04/20/12 09:26	
2-Butanone (MEK)	ug/L	ND	4.0	04/20/12 09:26	
2-Chloroethylvinyl ether	ug/L	ND	10.0	04/20/12 09:26	
2-Chlorotoluene	ug/L	ND	1.0	04/20/12 09:26	
2-Hexanone	ug/L	ND	4.0	04/20/12 09:26	
2-Methylnaphthalene	ug/L	ND	5.0	04/20/12 09:26	
4-Chlorotoluene	ug/L	ND	1.0	04/20/12 09:26	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	4.0	04/20/12 09:26	
Acetone	ug/L	ND	25.0	04/20/12 09:26	
Acrolein	ug/L	ND	10.0	04/20/12 09:26	
Acrylonitrile	ug/L	ND	10.0	04/20/12 09:26	
Allyl chloride	ug/L	ND	4.0	04/20/12 09:26	
Benzene	ug/L	ND	1.0	04/20/12 09:26	
Bromobenzene	ug/L	ND	1.0	04/20/12 09:26	
Bromochloromethane	ug/L	ND	1.0	04/20/12 09:26	
Bromodichloromethane	ug/L	ND	1.0	04/20/12 09:26	
Bromoform	ug/L	ND	4.0	04/20/12 09:26	
Bromomethane	ug/L	ND	4.0	04/20/12 09:26	
Carbon disulfide	ug/L	ND	1.0	04/20/12 09:26	
Carbon tetrachloride	ug/L	ND	1.0	04/20/12 09:26	
Chlorobenzene	ug/L	ND	1.0	04/20/12 09:26	

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QUALITY CONTROL DATA

Project: CRC CITY OF ROCHESTER
Pace Project No.: 10189408

METHOD BLANK: 1177773 Matrix: Water

Associated Lab Samples: 10189408001, 10189408002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloroethane	ug/L	ND	1.0	04/20/12 09:26	
Chloroform	ug/L	ND	1.0	04/20/12 09:26	
Chloromethane	ug/L	ND	4.0	04/20/12 09:26	
Chloroprene	ug/L	ND	1.0	04/20/12 09:26	
cis-1,2-Dichloroethene	ug/L	ND	1.0	04/20/12 09:26	
cis-1,3-Dichloropropene	ug/L	ND	4.0	04/20/12 09:26	
Dibromochloromethane	ug/L	ND	1.0	04/20/12 09:26	
Dibromomethane	ug/L	ND	4.0	04/20/12 09:26	
Dichlorodifluoromethane	ug/L	ND	1.0	04/20/12 09:26	
Dichlorofluoromethane	ug/L	ND	1.0	04/20/12 09:26	
Diethyl ether (Ethyl ether)	ug/L	ND	4.0	04/20/12 09:26	
Ethylbenzene	ug/L	ND	1.0	04/20/12 09:26	
Hexachloro-1,3-butadiene	ug/L	ND	5.0	04/20/12 09:26	
Iodomethane	ug/L	ND	4.0	04/20/12 09:26	
Isopropylbenzene (Cumene)	ug/L	ND	1.0	04/20/12 09:26	
m&p-Xylene	ug/L	ND	2.0	04/20/12 09:26	
Methyl-tert-butyl ether	ug/L	ND	1.0	04/20/12 09:26	
Methylene Chloride	ug/L	ND	4.0	04/20/12 09:26	
n-Butylbenzene	ug/L	ND	1.0	04/20/12 09:26	
n-Propylbenzene	ug/L	ND	1.0	04/20/12 09:26	
Naphthalene	ug/L	ND	4.0	04/20/12 09:26	
o-Xylene	ug/L	ND	1.0	04/20/12 09:26	
p-Isopropyltoluene	ug/L	ND	1.0	04/20/12 09:26	
sec-Butylbenzene	ug/L	ND	1.0	04/20/12 09:26	
Styrene	ug/L	ND	1.0	04/20/12 09:26	
tert-Butylbenzene	ug/L	ND	1.0	04/20/12 09:26	
Tetrachloroethene	ug/L	ND	1.0	04/20/12 09:26	
Tetrahydrofuran	ug/L	ND	10.0	04/20/12 09:26	
Toluene	ug/L	ND	1.0	04/20/12 09:26	
trans-1,2-Dichloroethene	ug/L	ND	1.0	04/20/12 09:26	
trans-1,3-Dichloropropene	ug/L	ND	4.0	04/20/12 09:26	
Trichloroethene	ug/L	ND	1.0	04/20/12 09:26	
Trichlorofluoromethane	ug/L	ND	1.0	04/20/12 09:26	
Vinyl acetate	ug/L	ND	10.0	04/20/12 09:26	
Vinyl chloride	ug/L	ND	0.40	04/20/12 09:26	
Xylene (Total)	ug/L	ND	3.0	04/20/12 09:26	
1,2-Dichloroethane-d4 (S)	%	99	75-125	04/20/12 09:26	
4-Bromofluorobenzene (S)	%	99	75-125	04/20/12 09:26	
Dibromofluoromethane (S)	%	99	75-125	04/20/12 09:26	
Toluene-d8 (S)	%	98	75-125	04/20/12 09:26	

LABORATORY CONTROL SAMPLE: 1177774

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	53.8	108	75-125	

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QUALITY CONTROL DATA

Project: CRC CITY OF ROCHESTER
Pace Project No.: 10189408

LABORATORY CONTROL SAMPLE: 1177774

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	54.0	108	75-129	
1,1,2,2-Tetrachloroethane	ug/L	50	47.0	94	69-126	
1,1,2-Trichloroethane	ug/L	50	49.6	99	75-125	
1,1,2-Trichlorotrifluoroethane	ug/L	50	54.4	109	70-127	
1,1-Dichloroethane	ug/L	50	52.9	106	75-128	
1,1-Dichloroethene	ug/L	50	53.8	108	72-130	
1,1-Dichloropropene	ug/L	50	52.9	106	75-130	
1,2,3-Trichlorobenzene	ug/L	50	50.4	101	75-125	
1,2,3-Trichloropropane	ug/L	50	48.0	96	75-125	
1,2,4-Trichlorobenzene	ug/L	50	53.0	106	75-126	
1,2,4-Trimethylbenzene	ug/L	50	52.0	104	75-125	
1,2-Dibromo-3-chloropropane	ug/L	50	45.4	91	72-125	
1,2-Dibromoethane (EDB)	ug/L	50	50.2	100	75-125	
1,2-Dichlorobenzene	ug/L	50	51.5	103	75-125	
1,2-Dichloroethane	ug/L	50	51.8	104	75-125	
1,2-Dichloroethene (Total)	ug/L	100	101	101	75-125	
1,2-Dichloropropane	ug/L	50	51.5	103	75-125	
1,3,5-Trimethylbenzene	ug/L	50	52.9	106	75-125	
1,3-Dichlorobenzene	ug/L	50	52.0	104	75-125	
1,3-Dichloropropane	ug/L	50	50.2	100	75-125	
1,4-Dichlorobenzene	ug/L	50	52.3	105	75-125	
2,2-Dichloropropane	ug/L	50	54.5	109	75-133	
2-Butanone (MEK)	ug/L	50	42.7	85	62-132	
2-Chloroethylvinyl ether	ug/L	125	303	242	75-125	CH,E,L0
2-Chlorotoluene	ug/L	50	51.7	103	74-126	
2-Hexanone	ug/L	50	45.2	90	74-125	
2-Methylnaphthalene	ug/L	25	22.5	90	63-126	
4-Chlorotoluene	ug/L	50	51.5	103	75-126	
4-Methyl-2-pentanone (MIBK)	ug/L	50	45.0	90	73-125	
Acetone	ug/L	125	122	97	35-150	
Acrolein	ug/L	500	480	96	62-143	
Acrylonitrile	ug/L	500	480	96	75-125	
Allyl chloride	ug/L	50	50.6	101	71-139	
Benzene	ug/L	50	51.8	104	74-126	
Bromobenzene	ug/L	50	51.2	102	75-125	
Bromochloromethane	ug/L	50	51.7	103	75-125	
Bromodichloromethane	ug/L	50	52.9	106	75-125	
Bromoform	ug/L	50	46.8	94	75-126	
Bromomethane	ug/L	50	34.0	68	59-146	
Carbon disulfide	ug/L	50	51.1	102	66-133	
Carbon tetrachloride	ug/L	50	55.4	111	72-133	
Chlorobenzene	ug/L	50	53.0	106	75-125	
Chloroethane	ug/L	50	50.7	101	73-138	
Chloroform	ug/L	50	53.0	106	75-125	
Chloromethane	ug/L	50	40.0	80	68-129	
Chloroprene	ug/L	50	53.5	107	68-133	
cis-1,2-Dichloroethene	ug/L	50	52.6	105	75-125	
cis-1,3-Dichloropropene	ug/L	50	49.3	99	75-125	

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QUALITY CONTROL DATA

Project: CRC CITY OF ROCHESTER
Pace Project No.: 10189408

LABORATORY CONTROL SAMPLE: 1177774

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Dibromochloromethane	ug/L	50	50.5	101	75-125	
Dibromomethane	ug/L	50	51.6	103	75-125	
Dichlorodifluoromethane	ug/L	50	47.4	95	75-150	
Dichlorofluoromethane	ug/L	50	52.6	105	75-128	
Diethyl ether (Ethyl ether)	ug/L	50	48.8	98	75-125	
Ethylbenzene	ug/L	50	53.1	106	75-125	
Hexachloro-1,3-butadiene	ug/L	25	28.2	113	61-133	
Iodomethane	ug/L	50	33.1	66	55-149	
Isopropylbenzene (Cumene)	ug/L	50	54.5	109	75-125	
m&p-Xylene	ug/L	100	105	105	75-125	
Methyl-tert-butyl ether	ug/L	50	50.3	101	75-125	
Methylene Chloride	ug/L	50	51.9	104	75-125	
n-Butylbenzene	ug/L	50	55.7	111	72-130	
n-Propylbenzene	ug/L	50	53.2	106	74-129	
Naphthalene	ug/L	50	47.8	96	75-125	
o-Xylene	ug/L	50	52.7	105	75-125	
p-Isopropyltoluene	ug/L	50	54.1	108	73-130	
sec-Butylbenzene	ug/L	50	54.8	110	71-131	
Styrene	ug/L	50	52.5	105	75-125	
tert-Butylbenzene	ug/L	50	53.3	107	73-129	
Tetrachloroethene	ug/L	50	54.5	109	74-127	
Tetrahydrofuran	ug/L	500	450	90	71-127	
Toluene	ug/L	50	52.8	106	75-125	
trans-1,2-Dichloroethene	ug/L	50	52.7	105	74-127	
trans-1,3-Dichloropropene	ug/L	50	48.5	97	75-125	
Trichloroethene	ug/L	50	53.6	107	75-125	
Trichlorofluoromethane	ug/L	50	53.5	107	75-150	
Vinyl acetate	ug/L	50	47.0	94	75-128	
Vinyl chloride	ug/L	50	51.0	102	75-132	
Xylene (Total)	ug/L	150	158	105	75-125	
1,2-Dichloroethane-d4 (S)	%			99	75-125	
4-Bromofluorobenzene (S)	%			97	75-125	
Dibromofluoromethane (S)	%			101	75-125	
Toluene-d8 (S)	%			99	75-125	

MATRIX SPIKE SAMPLE: 1177775

Parameter	Units	10188757001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	50	54.9	110	75-126	
1,1,1-Trichloroethane	ug/L	ND	50	59.9	120	75-141	
1,1,2,2-Tetrachloroethane	ug/L	ND	50	50.7	101	68-129	
1,1,2-Trichloroethane	ug/L	ND	50	51.1	102	75-125	
1,1,2-Trichlorotrifluoroethane	ug/L	ND	50	66.1	132	75-150	
1,1-Dichloroethane	ug/L	ND	50	56.8	114	75-139	
1,1-Dichloroethene	ug/L	ND	50	60.8	122	75-147	
1,1-Dichloropropene	ug/L	ND	50	59.4	119	75-150	
1,2,3-Trichlorobenzene	ug/L	ND	50	52.7	105	75-125	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: CRC CITY OF ROCHESTER
Pace Project No.: 10189408

MATRIX SPIKE SAMPLE: 1177775

Parameter	Units	10188757001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,2,3-Trichloropropane	ug/L	ND	50	52.6	105	71-125	
1,2,4-Trichlorobenzene	ug/L	ND	50	55.2	110	75-127	
1,2,4-Trimethylbenzene	ug/L	ND	50	53.9	108	74-133	
1,2-Dibromo-3-chloropropane	ug/L	ND	50	49.4	99	69-125	
1,2-Dibromoethane (EDB)	ug/L	ND	50	51.5	103	75-125	
1,2-Dichlorobenzene	ug/L	ND	50	53.0	106	75-125	
1,2-Dichloroethane	ug/L	ND	50	54.2	108	75-130	
1,2-Dichloroethene (Total)	ug/L	ND	100	106	106	70-130	
1,2-Dichloropropane	ug/L	ND	50	54.1	108	75-129	
1,3,5-Trimethylbenzene	ug/L	ND	50	54.6	109	72-135	
1,3-Dichlorobenzene	ug/L	ND	50	52.9	106	75-125	
1,3-Dichloropropane	ug/L	ND	50	51.6	103	75-125	
1,4-Dichlorobenzene	ug/L	ND	50	54.0	108	75-125	
2,2-Dichloropropane	ug/L	ND	50	58.2	116	75-150	
2-Butanone (MEK)	ug/L	ND	50	46.0	92	56-126	
2-Chloroethylvinyl ether	ug/L	ND	125	14.2	11	30-125	CH,M0
2-Chlorotoluene	ug/L	ND	50	53.4	107	75-130	
2-Hexanone	ug/L	ND	50	45.7	91	68-125	
2-Methylnaphthalene	ug/L	ND	25	23.8	95	60-130	
4-Chlorotoluene	ug/L	ND	50	53.9	108	75-127	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	50	47.9	96	69-128	
Acetone	ug/L	ND	125	131	105	32-129	
Acrolein	ug/L	ND	500	513	103	44-150	
Acrylonitrile	ug/L	ND	500	516	103	70-130	
Allyl chloride	ug/L	ND	50	55.0	110	61-150	
Benzene	ug/L	ND	50	55.7	111	75-135	
Bromobenzene	ug/L	ND	50	54.1	108	75-125	
Bromochloromethane	ug/L	ND	50	53.6	107	75-128	
Bromodichloromethane	ug/L	ND	50	54.1	108	75-127	
Bromoform	ug/L	ND	50	49.6	99	76-125	
Bromomethane	ug/L	ND	50	37.1	74	64-150	
Carbon disulfide	ug/L	ND	50	57.0	114	51-150	
Carbon tetrachloride	ug/L	ND	50	62.2	124	75-148	
Chlorobenzene	ug/L	ND	50	54.3	109	75-125	
Chloroethane	ug/L	ND	50	51.1	102	75-146	
Chloroform	ug/L	ND	50	56.1	112	75-131	
Chloromethane	ug/L	ND	50	44.7	89	73-141	
Chloroprene	ug/L	ND	50	60.1	120	63-150	
cis-1,2-Dichloroethene	ug/L	ND	50	56.0	112	75-136	
cis-1,3-Dichloropropene	ug/L	ND	50	51.5	103	75-130	
Dibromochloromethane	ug/L	ND	50	52.1	104	75-125	
Dibromomethane	ug/L	ND	50	54.2	108	75-125	
Dichlorodifluoromethane	ug/L	ND	50	53.9	108	75-150	
Dichlorofluoromethane	ug/L	ND	50	57.2	114	75-140	
Diethyl ether (Ethyl ether)	ug/L	ND	50	51.0	102	75-129	
Ethylbenzene	ug/L	ND	50	54.8	110	75-129	
Hexachloro-1,3-butadiene	ug/L	ND	25	32.8	131	72-139	
Iodomethane	ug/L	ND	50	38.1	76	64-150	

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QUALITY CONTROL DATA

Project: CRC CITY OF ROCHESTER
Pace Project No.: 10189408

MATRIX SPIKE SAMPLE: 1177775

Parameter	Units	10188757001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Isopropylbenzene (Cumene)	ug/L	ND	50	55.5	111	75-131	
m&p-Xylene	ug/L	ND	100	108	108	75-129	
Methyl-tert-butyl ether	ug/L	ND	50	52.5	105	75-131	
Methylene Chloride	ug/L	ND	50	53.5	107	74-125	
n-Butylbenzene	ug/L	ND	50	57.8	116	75-138	
n-Propylbenzene	ug/L	ND	50	56.1	112	75-134	
Naphthalene	ug/L	ND	50	50.3	101	75-125	
o-Xylene	ug/L	ND	50	53.8	108	75-128	
p-Isopropyltoluene	ug/L	ND	50	56.3	113	75-136	
sec-Butylbenzene	ug/L	ND	50	57.4	115	75-135	
Styrene	ug/L	ND	50	53.2	106	59-144	
tert-Butylbenzene	ug/L	ND	50	55.9	112	75-133	
Tetrachloroethene	ug/L	ND	50	58.4	117	75-136	
Tetrahydrofuran	ug/L	ND	500	488	98	64-134	
Toluene	ug/L	ND	50	54.9	110	75-127	
trans-1,2-Dichloroethene	ug/L	ND	50	58.3	117	75-142	
trans-1,3-Dichloropropene	ug/L	ND	50	50.1	100	74-129	
Trichloroethene	ug/L	ND	50	56.9	114	75-136	
Trichlorofluoromethane	ug/L	ND	50	57.7	115	75-150	
Vinyl acetate	ug/L	ND	50	49.1	98	58-145	
Vinyl chloride	ug/L	ND	50	53.8	108	75-150	
Xylene (Total)	ug/L	ND	150	162	108	75-128	
1,2-Dichloroethane-d4 (S)	%				98	75-125	
4-Bromofluorobenzene (S)	%				99	75-125	
Dibromofluoromethane (S)	%				101	75-125	
Toluene-d8 (S)	%				99	75-125	

SAMPLE DUPLICATE: 1177776

Parameter	Units	10188758001 Result	Dup Result	RPD	Max RPD	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L		ND		30	
1,1,1-Trichloroethane	ug/L		ND		30	
1,1,2,2-Tetrachloroethane	ug/L		ND		30	
1,1,2-Trichloroethane	ug/L		ND		30	
1,1,2-Trichlorotrifluoroethane	ug/L		ND		30	
1,1-Dichloroethane	ug/L		1.1	1	30	
1,1-Dichloroethene	ug/L		ND		30	
1,1-Dichloropropene	ug/L		ND		30	
1,2,3-Trichlorobenzene	ug/L		ND		30	
1,2,3-Trichloropropane	ug/L		ND		30	
1,2,4-Trichlorobenzene	ug/L		ND		30	
1,2,4-Trimethylbenzene	ug/L		ND		30	
1,2-Dibromo-3-chloropropane	ug/L		ND		30	
1,2-Dibromoethane (EDB)	ug/L		ND		30	
1,2-Dichlorobenzene	ug/L		ND		30	
1,2-Dichloroethane	ug/L		ND		30	
1,2-Dichloroethene (Total)	ug/L		1.5J	6	30	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: CRC CITY OF ROCHESTER
Pace Project No.: 10189408

SAMPLE DUPLICATE: 1177776

Parameter	Units	10188758001 Result	Dup Result	RPD	Max RPD	Qualifiers
1,2-Dichloropropane	ug/L		ND		30	
1,3,5-Trimethylbenzene	ug/L		ND		30	
1,3-Dichlorobenzene	ug/L		ND		30	
1,3-Dichloropropane	ug/L		ND		30	
1,4-Dichlorobenzene	ug/L		ND		30	
2,2-Dichloropropane	ug/L		ND		30	
2-Butanone (MEK)	ug/L		ND		30	
2-Chloroethylvinyl ether	ug/L		ND		30	
2-Chlorotoluene	ug/L		ND		30	
2-Hexanone	ug/L		ND		30	
2-Methylnaphthalene	ug/L		ND		30	
4-Chlorotoluene	ug/L		ND		30	
4-Methyl-2-pentanone (MIBK)	ug/L		ND		30	
Acetone	ug/L		ND		30	
Acrolein	ug/L		ND		30	
Acrylonitrile	ug/L		ND		30	
Allyl chloride	ug/L		ND		30	
Benzene	ug/L		ND		30	
Bromobenzene	ug/L		ND		30	
Bromochloromethane	ug/L		ND		30	
Bromodichloromethane	ug/L		ND		30	
Bromoform	ug/L		ND		30	
Bromomethane	ug/L		ND		30	
Carbon disulfide	ug/L		ND		30	
Carbon tetrachloride	ug/L		ND		30	
Chlorobenzene	ug/L		ND		30	
Chloroethane	ug/L		ND		30	
Chloroform	ug/L		ND		30	
Chloromethane	ug/L		ND		30	
Chloroprene	ug/L		ND		30	
cis-1,2-Dichloroethene	ug/L	1.6	1.5	6	30	
cis-1,3-Dichloropropene	ug/L		ND		30	
Dibromochloromethane	ug/L		ND		30	
Dibromomethane	ug/L		ND		30	
Dichlorodifluoromethane	ug/L		ND		30	
Dichlorofluoromethane	ug/L		ND		30	
Diethyl ether (Ethyl ether)	ug/L		ND		30	
Ethylbenzene	ug/L		ND		30	
Hexachloro-1,3-butadiene	ug/L		ND		30	
Iodomethane	ug/L		ND		30	
Isopropylbenzene (Cumene)	ug/L		ND		30	
m&p-Xylene	ug/L		ND		30	
Methyl-tert-butyl ether	ug/L		ND		30	
Methylene Chloride	ug/L		ND		30	
n-Butylbenzene	ug/L		ND		30	
n-Propylbenzene	ug/L		ND		30	
Naphthalene	ug/L		ND		30	
o-Xylene	ug/L		ND		30	

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QUALITY CONTROL DATA

Project: CRC CITY OF ROCHESTER
Pace Project No.: 10189408

SAMPLE DUPLICATE: 1177776

Parameter	Units	10188758001 Result	Dup Result	RPD	Max RPD	Qualifiers
p-Isopropyltoluene	ug/L		ND		30	
sec-Butylbenzene	ug/L		ND		30	
Styrene	ug/L		ND		30	
tert-Butylbenzene	ug/L		ND		30	
Tetrachloroethene	ug/L		ND		30	
Tetrahydrofuran	ug/L		ND		30	
Toluene	ug/L		ND		30	
trans-1,2-Dichloroethene	ug/L		ND		30	
trans-1,3-Dichloropropene	ug/L		ND		30	
Trichloroethene	ug/L		ND		30	
Trichlorofluoromethane	ug/L		ND		30	
Vinyl acetate	ug/L		ND		30	
Vinyl chloride	ug/L		2.9	.8	30	
Xylene (Total)	ug/L		ND	0	30	
1,2-Dichloroethane-d4 (S)	%	100	100	.4		
4-Bromofluorobenzene (S)	%	99	98	.3		
Dibromofluoromethane (S)	%	100	100	.8		
Toluene-d8 (S)	%	98	98	.4		

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QUALIFIERS

Project: CRC CITY OF ROCHESTER
Pace Project No.: 10189408

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.

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

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

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TNI - The NELAC Institute.

ANALYTE QUALIFIERS

CH	The continuing calibration for this compound is outside of Pace Analytical acceptance limits. The results may be biased high.
E	Analyte concentration exceeded the calibration range. The reported result is estimated.
L0	Analyte recovery in the laboratory control sample (LCS) was outside QC limits.
L3	Analyte recovery in the laboratory control sample (LCS) exceeded QC limits. Analyte presence below reporting limits in associated samples. Results unaffected by high bias.
M0	Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: CRC CITY OF ROCHESTER
Pace Project No.: 10189408

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10189408001	**AS - INFLUENT**	EPA 624	MSV/19918		
10189408002	**AS - EFFLUENT**	EPA 624	MSV/19918		

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CHAIN-OF-CUSTODY / Analytical Request Document

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

10189408

10189408

Page: 1 of 1

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

REGULATORY AGENCY

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

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

Section D Required Client Information

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

Valid Matrix Codes

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

ITEM #	Sample ID	MATRIX CODE	SAMPLE TYPE G=GRAB C=COMP	COLLECTED COMPOSITE START DATE	COLLECTED COMPOSITE START TIME	COLLECTED COMPOSITE END/GRAB DATE	COLLECTED COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	#OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Requested Analysis: EPA 624	Pace Project Number / Lab I.D.
1	AS-Influent	W	G	4/18/12	9:20				3									X	001
2	AS-Effluent	W	G	4/18/12	9:25				3									X	002
3																			
4																			
5																			
6																			
7																			
8																			
5																			
6																			
7																			
8																			

Additional Comments:

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
			Pace	4/19/12	0945
			Pace	4/19/12	1110

SAMPLE CONDITIONS

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

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Eric Gabrielson

SIGNATURE of SAMPLER:

DATE Signed (MM / DD / YY): 4/19/12

19 of 20

Pace Analytical®	Document Name: **Sample Condition Upon Receipt Form**	Revised Date: 15Feb2012 Page 1 of 1
	Document Number: **F-MN-L-213-rev.02**	Issuing Authority: Pace Minnesota Quality Office

Sample Condition Upon Receipt

Client Name: Landmark Project # 10189408

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

Tracking #: _____

Optional: Proj. Due Date: Proj. Name:

Custody Seal on Cooler/Box Present: ☐ yes ☒ no Seals intact: ☐ yes ☒ no

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☒ None ☐ Other _____ Temp Blank: Yes ____ No ☒

Thermometer Used 80344042 or 80512447 **Type of Ice:** Wet Blue None ☐ Samples on ice, cooling process has begun

Cooler Temperature 7.8 **Biological Tissue is Frozen:** Yes No

Temp should be above freezing to 6°C

Comments:

Date and Initials of person examining contents: 4/19/12 BLA

Chain of Custody Present:	☒Yes ☐No ☐N/A	1.
Chain of Custody Filled Out:	☒Yes ☐No ☐N/A	2.
Chain of Custody Relinquished:	☐Yes ☒No ☐N/A	3.
Sampler Name & Signature on COC:	☒Yes ☐No ☐N/A	4.
Samples Arrived within Hold Time:	☒Yes ☐No ☐N/A	5.
Short Hold Time Analysis (<72hr):	☐Yes ☒No ☐N/A	6.
Rush Turn Around Time Requested:	☐Yes ☒No ☐N/A	7.
Sufficient Volume:	☒Yes ☐No ☐N/A	8.
Correct Containers Used:	☒Yes ☐No ☐N/A	9.
-Pace Containers Used:	☒Yes ☐No ☐N/A	
Containers Intact:	☒Yes ☐No ☐N/A	10.
Filtered volume received for Dissolved tests	☐Yes ☐No ☒N/A	11.
Sample Labels match COC: -Includes date/time/ID/Analysis Matrix: WT	☒Yes ☐No ☐N/A	12.
All containers needing acid/base preservation have been checked. Noncompliance are noted in 13.	☐Yes ☐No ☒N/A	13. ☐ HNO3 ☐ H2SO4 ☐ NaOH ☐ HCl Samp #
All containers needing preservation are found to be in compliance with EPA recommendation. (HNO3, H2SO4, HCL<2; NaOH >12)	☐Yes ☐No ☒N/A	
Exceptions: VOA Coliform, TOC, Oil and Grease, WI-DRO (water)	☒Yes ☐No	Initial when completed BLA / Lot # of added preservative
Headspace in VOA Vials (>6mm):	☒Yes ☐No ☐N/A	14. 002 2of3
Trip Blank Present:	☐Yes ☒No ☐N/A	15.
Trip Blank Custody Seals Present	☐Yes ☐No ☒N/A	
Pace Trip Blank Lot # (if purchased): _____		

Client Notification/ Resolution: Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: _____ **Date:** 4/20/12

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

Attachment C

Minnesota Pollution Control Agency

Petroleum Remediation Program Air Emissions Screening Spreadsheet

Soil Vapor Extraction (SVE) and/or Air Stripper (AS) Data Input Worksheet

Doc Type: Corrective Action Design

MPCA Leak ID: MN BIO BUSINESS CENTER	**Enter SVE Standard Parameters**		**Enter AS Standard Parameters**		
Sample Date: 01/27/2012	Distance to Nearest Receptor (feet):	33	Distance to Nearest Receptor (feet):	33	
Person Completing Worksheet: KAB	SVE Stack Height (feet):	26.2	Air Stripper Stack Height (feet):	26.2	
Notes: Use this area to provide comments regarding the sampling event, input parameters, etc.	SVE Stack Flow Rate (SCFM[1]):	40	Air Stripper Influent Flow Rate (L/s):	0.035	
	Enter SVE Modeling Parameters (if applicable)		**Enter AS Modeling Parameters (if applicable)**		
	SVE Stack Diameter (inches):		AS Stack Diameter (inches):		
	SVE Stack Exit Velocity[2] (feet per second):		AS Stack Exit Velocity[2] (feet per second):		
	SVE Stack Exit Temperature (°F):		AS Stack Exit Temperature (°F):		
	SVE Annual Dispersion Factor ((µg/m^3)/g/s)	Contact MPCA	AS Annual Dispersion Factor ((µg/m^3)/g/s)	Contact MPCA	
	SVE 1-hr Dispersion Factor ((µg/m^3)/g/s)	Contact MPCA	AS 1-hr Dispersion Factor ((µg/m^3)/g/s)	Contact MPCA	

Chemical Name	CAS #	SVE Emission Concentration (µg/m^3)	SVE Emission Rate (µg/sec)	AS Influent Groundwater Concentration (µg/L)	AS Effluent Groundwater Concentration (µg/L)	Removal Factor (dimension-less)	AS Emission Rate (µg/sec)
Acetone	67-64-1	44	1				
Benzene	71-43-2	1	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	5	0				
Carbon disulfide	75-15-0						
Carbon tetrachloride	56-23-5						
Chlorobenzene	108-90-7						
Chloroethane (Ethyl chloride)	75-00-3						
Chloroform	67-66-3	10	0				
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	5	0				
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	80	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	249	5				
Ethyl acetate	141-78-6						
Ethylbenzene	100-41-4	3	0				
4-Ethyltoluene	622-96-8						
n-Heptane	142-82-5	3	0				
Hexachloro-1,3-butadiene	87-68-3						
n-Hexane	110-54-3	7	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	18	0				

Minnesota Pollution Control Agency

Petroleum Remediation Program Air Emissions Screening Spreadsheet

Soil Vapor Extraction (SVE) and/or Air Stripper (AS) Data Input Worksheet

Doc Type: Corrective Action Design

MPCA Leak ID: MN BIO BUSINESS CENTER	**Enter SVE Standard Parameters**		**Enter AS Standard Parameters**		
Sample Date: 01/27/2012	Distance to Nearest Receptor (feet):	33	Distance to Nearest Receptor (feet):	33	
Person Completing Worksheet: KAB	SVE Stack Height (feet):	26.2	Air Stripper Stack Height (feet):	26.2	
Notes: Use this area to provide comments regarding the sampling event, input parameters, etc.	SVE Stack Flow Rate (SCFM[1]):	40	Air Stripper Influent Flow Rate (L/s):	0.035	
	Enter SVE Modeling Parameters (if applicable)		**Enter AS Modeling Parameters (if applicable)**		
	SVE Stack Diameter (inches):		AS Stack Diameter (inches):		
	SVE Stack Exit Velocity[2] (feet per second):		AS Stack Exit Velocity[2] (feet per second):		
	SVE Stack Exit Temperature (°F):		AS Stack Exit Temperature (°F):		
	SVE Annual Dispersion Factor ((µg/m^3)/g/s)	Contact MPCA	AS Annual Dispersion Factor ((µg/m^3)/g/s)	Contact MPCA	
	SVE 1-hr Dispersion Factor ((µg/m^3)/g/s)	Contact MPCA	AS 1-hr Dispersion Factor ((µg/m^3)/g/s)	Contact MPCA	

Chemical Name	CAS #	SVE Emission Concentration (µg/m^3)	SVE Emission Rate (µg/sec)	AS Influent Groundwater Concentration (µg/L)	AS Effluent Groundwater Concentration (µg/L)	Removal Factor (dimension-less)	AS Emission Rate (µg/sec)
Propylene (methylethylene or propene)	115-07-1						
Styrene	100-42-5						
1,1,2,2-Tetrachloroethane	79-34-5						
Tetrachloroethylene (PCE)	127-18-4	29,100	548	76	0	1.00	3
Tetrahydrofuran	109-99-9						
Toluene (Methylbenzene)	108-88-3	8	0				
1,2,4-Trichlorobenzene	120-82-1						
1,1,1-Trichloroethane (Methyl chloroform)	71-55-6	51	1				
1,1,2-Trichloroethane	79-00-5						
Trichloroethylene (TCE)	79-01-6	37	1				
Trichlorofluoromethane (Freon 11)	75-69-4						
Trichlorotrifluoroethane (Freon 113)	76-13-1	56,100	1,056				
1,2,4-Trimethylbenzene	95-63-6	6	0				
1,3,5-Trimethylbenzene	108-67-8						
Vinyl acetate	108-05-4						
Vinyl chloride	75-01-4						
m&p-Xylene	108-38-3	4	0				
o-Xylene	95-47-6	2	0				

[1]SCFM = standard cubic feet per minute based on a standard temperature of 77° F (25° C, 298.15 K) and a standard pressure of 1 atmosphere (14.7 pounds per square inch, 29.92 inches of mercury, 760 millimeters of mercury).

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

Minnesota Pollution Control Agency

Petroleum Remediation Program Air Emissions Screening Spreadsheet

Soil Vapor Extraction and/or Air Stripper Risk Evaluation Worksheet

Doc Type: Corrective Action Design

MPCA Leak ID: MN BIO BUSINESS CENTER
Sample Date: 01/27/2012
Person Completing Worksheet: KAB

Chemical Name	CAS #	Acute Mixtures Evaluation				Chronic Noncancer Mixtures Evaluation									Excess Lifetime Cancer Risk (guideline value = 1E-5)
		Acute Hazard Quotient	CNS	IRRIT	REPRO	Chronic Noncancer Hazard Quotient	CNS	CV/BLD	IMMUN	KIDN	LIVER/GI	REPRO	RESP	WHOLE BODY	
Acetone	67-64-1	0.0	0.0			0.0	0.0								
Benzene	71-43-2	0.0			0.0	0.0		0.0	0.0						9E-11
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	0.0		0.0		0.0						0.0			
Carbon disulfide	75-15-0														
Carbon tetrachloride	56-23-5														
Chlorobenzene	108-90-7														
Chloroethane (Ethyl chloride)	75-00-3														
Chloroform	67-66-3	0.0			0.0	0.0					0.0	0.0			
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	0.0		0.0		0.0							0.0		
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	0.0			0.0	0.0				0.0					2E-10
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	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								4E-07
Tetrahydrofuran	109-99-9														

Minnesota Pollution Control Agency

Petroleum Remediation Program Air Emissions Screening Spreadsheet

Soil Vapor Extraction and/or Air Stripper Risk Evaluation Worksheet

Doc Type: Corrective Action Design

MPCA Leak ID: MN BIO BUSINESS CENTER
Sample Date: 01/27/2012
Person Completing Worksheet: KAB

Chemical Name	CAS #	Acute Mixtures Evaluation				Chronic Noncancer Mixtures Evaluation									Excess Lifetime Cancer Risk (guideline value = 1E-5)
		Acute Hazard Quotient	CNS	IRRIT	REPRO	Chronic Noncancer Hazard Quotient	CNS	CV/BLD	IMMUN	KIDN	LIVER/GI	REPRO	RESP	WHOLE BODY	
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	0.0	0.0			0.0	0.0								
1,1,2-Trichloroethane	79-00-5														
Trichloroethylene (TCE)	79-01-6	0.0			0.0	0.0	0.0								4E-09
Trichlorofluoromethane (Freon 11)	75-69-4														
Trichlorotrifluoroethane (Freon 113)	76-13-1					0.0								0.0	
1,2,4-Trimethylbenzene	95-63-6					0.0		0.0							
1,3,5-Trimethylbenzene	108-67-8														
Vinyl acetate	108-05-4														
Vinyl chloride	75-01-4														
m&p-Xylene**	108-38-3	0.0	0.0	0.0		0.0	0.0								
o-Xylene**	95-47-6	0.0	0.0	0.0		0.0	0.0								
Hazard Index:			0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.5E-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

Minnesota Pollution Control Agency

Petroleum Remediation Program Air Emissions Screening Spreadsheet

Soil Vapor Extraction (SVE) and/or Air Stripper (AS) Data Input Worksheet

Doc Type: Corrective Action Design

MPCA Leak ID: MN BIO BUSINESS CENTER	**Enter SVE Standard Parameters**		**Enter AS Standard Parameters**		
Sample Date:02/16/2012	Distance to Nearest Receptor (feet):	33	Distance to Nearest Receptor (feet):	33	
Person Completing Worksheet: KAB	SVE Stack Height (feet):	26.2	Air Stripper Stack Height (feet):	26.2	
Notes: Use this area to provide comments regarding the sampling event, input parameters, etc.	SVE Stack Flow Rate (SCFM[1]):	35	Air Stripper Influent Flow Rate (L/s):	0.035	
	Enter SVE Modeling Parameters (if applicable)		**Enter AS Modeling Parameters (if applicable)**		
	SVE Stack Diameter (inches):		AS Stack Diameter (inches):		
	SVE Stack Exit Velocity[2] (feet per second):		AS Stack Exit Velocity[2] (feet per second):		
	SVE Stack Exit Temperature (°F):		AS Stack Exit Temperature (°F):		
	SVE Annual Dispersion Factor ((µg/m^3)/g/s)	Contact MPCA	AS Annual Dispersion Factor ((µg/m^3)/g/s)	Contact MPCA	
	SVE 1-hr Dispersion Factor ((µg/m^3)/g/s)	Contact MPCA	AS 1-hr Dispersion Factor ((µg/m^3)/g/s)	Contact MPCA	

Chemical Name	CAS #	SVE Emission Concentration (µg/m^3)	SVE Emission Rate (µg/sec)	AS Influent Groundwater Concentration (µg/L)	AS Effluent Groundwater Concentration (µg/L)	Removal Factor (dimension-less)	AS Emission Rate (µg/sec)
Acetone	67-64-1						
Benzene	71-43-2						
Benzyl chloride	100-44-7						
Bromodichloromethane	75-27-4						
Bromoform	75-25-2						
Bromomethane (Methyl bromide)	74-83-9						
1,3-Butadiene	106-99-0						
2-Butanone (Methyl ethyl ketone, MEK)	78-93-3						
Carbon disulfide	75-15-0						
Carbon tetrachloride	56-23-5						
Chlorobenzene	108-90-7						
Chloroethane (Ethyl chloride)	75-00-3						
Chloroform	67-66-3						
Chloromethane (Methyl chloride)	74-87-3						
Cyclohexane	110-82-7						
Dibromochloromethane	124-48-1						
1,2-Dibromoethane (Ethylene dibromide, EDB)	106-93-4						
1,2-Dichlorobenzene	95-50-1						
1,3-Dichlorobenzene	541-73-1						
1,4-Dichlorobenzene	106-46-7						
1,1-Dichloroethane	75-34-3						
1,2-Dichloroethane (DCA)	107-06-2						
1,1-Dichloroethene (DCE)	75-35-4						
cis-1,2-Dichloroethene	156-59-2						
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	585	10				
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	1,390	23				
Methyl-tert-butyl ether (MTBE)	1634-04-4						
Naphthalene	91-20-3						
2-Propanol (Isopropyl alcohol)	67-63-0						

Minnesota Pollution Control Agency

Petroleum Remediation Program Air Emissions Screening Spreadsheet

Soil Vapor Extraction (SVE) and/or Air Stripper (AS) Data Input Worksheet

Doc Type: Corrective Action Design

MPCA Leak ID: MN BIO BUSINESS CENTER	**Enter SVE Standard Parameters**		**Enter AS Standard Parameters**		
Sample Date:02/16/2012	Distance to Nearest Receptor (feet):	33	Distance to Nearest Receptor (feet):	33	
Person Completing Worksheet: KAB	SVE Stack Height (feet):	26.2	Air Stripper Stack Height (feet):	26.2	
Notes: Use this area to provide comments regarding the sampling event, input parameters, etc.	SVE Stack Flow Rate (SCFM[1]):	35	Air Stripper Influent Flow Rate (L/s):	0.035	
	Enter SVE Modeling Parameters (if applicable)		**Enter AS Modeling Parameters (if applicable)**		
	SVE Stack Diameter (inches):		AS Stack Diameter (inches):		
	SVE Stack Exit Velocity[2] (feet per second):		AS Stack Exit Velocity[2] (feet per second):		
	SVE Stack Exit Temperature (°F):		AS Stack Exit Temperature (°F):		
	SVE Annual Dispersion Factor ((µg/m^3)/g/s)	Contact MPCA	AS Annual Dispersion Factor ((µg/m^3)/g/s)	Contact MPCA	
	SVE 1-hr Dispersion Factor ((µg/m^3)/g/s)	Contact MPCA	AS 1-hr Dispersion Factor ((µg/m^3)/g/s)	Contact MPCA	

Chemical Name	CAS #	SVE Emission Concentration (µg/m^3)	SVE Emission Rate (µg/sec)	AS Influent Groundwater Concentration (µg/L)	AS Effluent Groundwater Concentration (µg/L)	Removal Factor (dimension-less)	AS Emission Rate (µg/sec)
Propylene (methylethylene or propene)	115-07-1						
Styrene	100-42-5						
1,1,2,2-Tetrachloroethane	79-34-5						
Tetrachloroethylene (PCE)	127-18-4	4,440	74	52	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	60,400	1,003				
1,2,4-Trimethylbenzene	95-63-6						
1,3,5-Trimethylbenzene	108-67-8						
Vinyl acetate	108-05-4						
Vinyl chloride	75-01-4						
m&p-Xylene	108-38-3						
o-Xylene	95-47-6						

[1]SCFM = standard cubic feet per minute based on a standard temperature of 77° F (25° C, 298.15 K) and a standard pressure of 1 atmosphere (14.7 pounds per square inch, 29.92 inches of mercury, 760 millimeters of mercury).

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

Minnesota Pollution Control Agency

Petroleum Remediation Program Air Emissions Screening Spreadsheet

Soil Vapor Extraction and/or Air Stripper Risk Evaluation Worksheet

Doc Type: Corrective Action Design

MPCA Leak ID: MN BIO BUSINESS CENTER
Sample Date:02/16/2012
Person Completing Worksheet: KAB

Chemical Name	CAS #	Acute Mixtures Evaluation				Chronic Noncancer Mixtures Evaluation									Excess Lifetime Cancer Risk (guideline value = 1E-5)
		Acute Hazard Quotient	CNS	IRRIT	REPRO	Chronic Noncancer Hazard Quotient	CNS	CV/BLD	IMMUN	KIDN	LIVER/GI	REPRO	RESP	WHOLE BODY	
Acetone	67-64-1														
Benzene	71-43-2														
Benzyl chloride	100-44-7														
Bromodichloromethane	75-27-4														
Bromoform	75-25-2														
Bromomethane (Methyl bromide)	74-83-9														
1,3-Butadiene	106-99-0														
2-Butanone (Methyl ethyl ketone, MEK)	78-93-3														
Carbon disulfide	75-15-0														
Carbon tetrachloride	56-23-5														
Chlorobenzene	108-90-7														
Chloroethane (Ethyl chloride)	75-00-3														
Chloroform	67-66-3														
Chloromethane (Methyl chloride)	74-87-3														
Cyclohexane	110-82-7														
Dibromochloromethane	124-48-1														
1,2-Dibromoethane (Ethylene dibromide, EDB)	106-93-4														
1,2-Dichlorobenzene	95-50-1														
1,3-Dichlorobenzene	541-73-1														
1,4-Dichlorobenzene	106-46-7														
1,1-Dichloroethane	75-34-3														
1,2-Dichloroethane (DCA)	107-06-2														
1,1-Dichloroethene (DCE)	75-35-4														
cis-1,2-Dichloroethene	156-59-2														
trans-1,2-Dichloroethene	156-60-5														
Dichlorodifluoromethane (Freon 12)	75-71-8														
1,2-Dichloropropane	78-87-5														
cis-1,3-Dichloropropene*	10061-01-5														
trans-1,3-Dichloropropene*	10061-02-6														
Dichlorotetrafluoroethane (Freon 114)	76-14-2														
Ethanol	64-17-5														
Ethyl acetate	141-78-6														
Ethylbenzene	100-41-4														
4-Ethyltoluene	622-96-8														
n-Heptane	142-82-5														
Hexachloro-1,3-butadiene	87-68-3														
n-Hexane	110-54-3					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							2E-08
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								6E-08
Tetrahydrofuran	109-99-9														

Minnesota Pollution Control Agency

Petroleum Remediation Program Air Emissions Screening Spreadsheet

Soil Vapor Extraction and/or Air Stripper Risk Evaluation Worksheet

Doc Type: Corrective Action Design

MPCA Leak ID: MN BIO BUSINESS CENTER
Sample Date:02/16/2012
Person Completing Worksheet: KAB

Chemical Name	CAS #	Acute Mixtures Evaluation				Chronic Noncancer Mixtures Evaluation									Excess Lifetime Cancer Risk (guideline value = 1E-5)
		Acute Hazard Quotient	CNS	IRRIT	REPRO	Chronic Noncancer Hazard Quotient	CNS	CV/BLD	IMMUN	KIDN	LIVER/GI	REPRO	RESP	WHOLE BODY	
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		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.9E-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

Minnesota Pollution Control Agency

Petroleum Remediation Program Air Emissions Screening Spreadsheet

Soil Vapor Extraction (SVE) and/or Air Stripper (AS) Data Input Worksheet

Doc Type: Corrective Action Design

MPCA Leak ID: MN BIO BUSINESS CENTER	**Enter SVE Standard Parameters**		**Enter AS Standard Parameters**		
Sample Date: 03/16/2012	Distance to Nearest Receptor (feet):	33	Distance to Nearest Receptor (feet):	33	
Person Completing Worksheet: KAB	SVE Stack Height (feet):	26.2	Air Stripper Stack Height (feet):	26.2	
Notes: Use this area to provide comments regarding the sampling event, input parameters, etc.	SVE Stack Flow Rate (SCFM[1]):	34	Air Stripper Influent Flow Rate (L/s):	0.007	
	Enter SVE Modeling Parameters (if applicable)		**Enter AS Modeling Parameters (if applicable)**		
	SVE Stack Diameter (inches):		AS Stack Diameter (inches):		
	SVE Stack Exit Velocity[2] (feet per second):		AS Stack Exit Velocity[2] (feet per second):		
	SVE Stack Exit Temperature (°F):		AS Stack Exit Temperature (°F):		
	SVE Annual Dispersion Factor ((µg/m^3)/g/s)	Contact MPCA	AS Annual Dispersion Factor ((µg/m^3)/g/s)	Contact MPCA	
	SVE 1-hr Dispersion Factor ((µg/m^3)/g/s)	Contact MPCA	AS 1-hr Dispersion Factor ((µg/m^3)/g/s)	Contact MPCA	

Chemical Name	CAS #	SVE Emission Concentration (µg/m^3)	SVE Emission Rate (µg/sec)	AS Influent Groundwater Concentration (µg/L)	AS Effluent Groundwater Concentration (µg/L)	Removal Factor (dimension-less)	AS Emission Rate (µg/sec)
Acetone	67-64-1						
Benzene	71-43-2						
Benzyl chloride	100-44-7						
Bromodichloromethane	75-27-4						
Bromoform	75-25-2						
Bromomethane (Methyl bromide)	74-83-9						
1,3-Butadiene	106-99-0						
2-Butanone (Methyl ethyl ketone, MEK)	78-93-3						
Carbon disulfide	75-15-0						
Carbon tetrachloride	56-23-5						
Chlorobenzene	108-90-7						
Chloroethane (Ethyl chloride)	75-00-3						
Chloroform	67-66-3						
Chloromethane (Methyl chloride)	74-87-3			4	0	1.00	0
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	894	14				
Ethyl acetate	141-78-6						
Ethylbenzene	100-41-4						
4-Ethyltoluene	622-96-8						
n-Heptane	142-82-5						
Hexachloro-1,3-butadiene	87-68-3						
n-Hexane	110-54-3						
2-Hexanone (Methyl butyl ketone)	591-78-6						
4-Methyl-2-pentanone (Methyl isobutyl ketone, MIBK)	108-10-1						
Methylene chloride (Dichloromethane)	75-09-2						
Methyl-tert-butyl ether (MTBE)	1634-04-4						
Naphthalene	91-20-3						
2-Propanol (Isopropyl alcohol)	67-63-0						

Minnesota Pollution Control Agency

Petroleum Remediation Program Air Emissions Screening Spreadsheet

Soil Vapor Extraction (SVE) and/or Air Stripper (AS) Data Input Worksheet

Doc Type: Corrective Action Design

MPCA Leak ID: MN BIO BUSINESS CENTER	**Enter SVE Standard Parameters**		**Enter AS Standard Parameters**		
Sample Date: 03/16/2012	Distance to Nearest Receptor (feet):	33	Distance to Nearest Receptor (feet):	33	
Person Completing Worksheet: KAB	SVE Stack Height (feet):	26.2	Air Stripper Stack Height (feet):	26.2	
Notes: Use this area to provide comments regarding the sampling event, input parameters, etc.	SVE Stack Flow Rate (SCFM[1]):	34	Air Stripper Influent Flow Rate (L/s):	0.007	
	Enter SVE Modeling Parameters (if applicable)		**Enter AS Modeling Parameters (if applicable)**		
	SVE Stack Diameter (inches):		AS Stack Diameter (inches):		
	SVE Stack Exit Velocity[2] (feet per second):		AS Stack Exit Velocity[2] (feet per second):		
	SVE Stack Exit Temperature (°F):		AS Stack Exit Temperature (°F):		
	SVE Annual Dispersion Factor ((µg/m^3)/g/s)	Contact MPCA	AS Annual Dispersion Factor ((µg/m^3)/g/s)	Contact MPCA	
	SVE 1-hr Dispersion Factor ((µg/m^3)/g/s)	Contact MPCA	AS 1-hr Dispersion Factor ((µg/m^3)/g/s)	Contact MPCA	

Chemical Name	CAS #	SVE Emission Concentration (µg/m^3)	SVE Emission Rate (µg/sec)	AS Influent Groundwater Concentration (µg/L)	AS Effluent Groundwater Concentration (µg/L)	Removal Factor (dimension-less)	AS Emission Rate (µg/sec)
Propylene (methylethylene or propene)	115-07-1						
Styrene	100-42-5						
1,1,2,2-Tetrachloroethane	79-34-5						
Tetrachloroethylene (PCE)	127-18-4			87	0	1.00	1
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	58,500	939	1	0	1.00	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						

[1]SCFM = standard cubic feet per minute based on a standard temperature of 77° F (25° C, 298.15 K) and a standard pressure of 1 atmosphere (14.7 pounds per square inch, 29.92 inches of mercury, 760 millimeters of mercury).

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

Minnesota Pollution Control Agency

Petroleum Remediation Program Air Emissions Screening Spreadsheet

Soil Vapor Extraction and/or Air Stripper Risk Evaluation Worksheet

Doc Type: Corrective Action Design

MPCA Leak ID: MN BIO BUSINESS CENTER
Sample Date: 03/16/2012
Person Completing Worksheet: KAB

Chemical Name	CAS #	Acute Mixtures Evaluation				Chronic Noncancer Mixtures Evaluation									Excess Lifetime Cancer Risk (guideline value = 1E-5)
		Acute Hazard Quotient	CNS	IRRIT	REPRO	Chronic Noncancer Hazard Quotient	CNS	CV/BLD	IMMUN	KIDN	LIVER/GI	REPRO	RESP	WHOLE BODY	
Acetone	67-64-1														
Benzene	71-43-2														
Benzyl chloride	100-44-7														
Bromodichloromethane	75-27-4														
Bromoform	75-25-2														
Bromomethane (Methyl bromide)	74-83-9														
1,3-Butadiene	106-99-0														
2-Butanone (Methyl ethyl ketone, MEK)	78-93-3														
Carbon disulfide	75-15-0														
Carbon tetrachloride	56-23-5														
Chlorobenzene	108-90-7														
Chloroethane (Ethyl chloride)	75-00-3														
Chloroform	67-66-3														
Chloromethane (Methyl chloride)	74-87-3	0.0	0.0			0.0	0.0								
Cyclohexane	110-82-7														
Dibromochloromethane	124-48-1														
1,2-Dibromoethane (Ethylene dibromide, EDB)	106-93-4														
1,2-Dichlorobenzene	95-50-1														
1,3-Dichlorobenzene	541-73-1														
1,4-Dichlorobenzene	106-46-7														
1,1-Dichloroethane	75-34-3														
1,2-Dichloroethane (DCA)	107-06-2														
1,1-Dichloroethene (DCE)	75-35-4														
cis-1,2-Dichloroethene	156-59-2														
trans-1,2-Dichloroethene	156-60-5														
Dichlorodifluoromethane (Freon 12)	75-71-8														
1,2-Dichloropropane	78-87-5														
cis-1,3-Dichloropropene*	10061-01-5														
trans-1,3-Dichloropropene*	10061-02-6														
Dichlorotetrafluoroethane (Freon 114)	76-14-2														
Ethanol	64-17-5	0.0		0.0		0.0							0.0		
Ethyl acetate	141-78-6														
Ethylbenzene	100-41-4														
4-Ethyltoluene	622-96-8														
n-Heptane	142-82-5														
Hexachloro-1,3-butadiene	87-68-3														
n-Hexane	110-54-3														
2-Hexanone (Methyl butyl ketone)	591-78-6														
4-Methyl-2-pentanone (Methyl isobutyl ketone, MIBK)	108-10-1														
Methylene chloride (Dichloromethane)	75-09-2														
Methyl-tert-butyl ether (MTBE)	1634-04-4														
Naphthalene	91-20-3														
2-Propanol (Isopropyl alcohol)	67-63-0														
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								5E-10
Tetrahydrofuran	109-99-9														

Minnesota Pollution Control Agency

Petroleum Remediation Program Air Emissions Screening Spreadsheet

Soil Vapor Extraction and/or Air Stripper Risk Evaluation Worksheet

Doc Type: Corrective Action Design

MPCA Leak ID: MN BIO BUSINESS CENTER
Sample Date: 03/16/2012
Person Completing Worksheet: KAB

Chemical Name	CAS #	Acute Mixtures Evaluation				Chronic Noncancer Mixtures Evaluation									Excess Lifetime Cancer Risk (guideline value = 1E-5)
		Acute Hazard Quotient	CNS	IRRIT	REPRO	Chronic Noncancer Hazard Quotient	CNS	CV/BLD	IMMUN	KIDN	LIVER/GI	REPRO	RESP	WHOLE BODY	
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		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.9E-10

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

Minnesota Pollution Control Agency

Petroleum Remediation Program Air Emissions Screening Spreadsheet

Soil Vapor Extraction (SVE) and/or Air Stripper (AS) Data Input Worksheet

Doc Type: Corrective Action Design

MPCA Leak ID: MN BIO BUSINESS CENTER	**Enter SVE Standard Parameters**		**Enter AS Standard Parameters**		
Sample Date: 04/17/2012	Distance to Nearest Receptor (feet):	33	Distance to Nearest Receptor (feet):	33	
Person Completing Worksheet: KAB	SVE Stack Height (feet):	26.2	Air Stripper Stack Height (feet):	26.2	
Notes: Use this area to provide comments regarding the sampling event, input parameters, etc.	SVE Stack Flow Rate (SCFM[1]):	29	Air Stripper Influent Flow Rate (L/s):	0.036	
	Enter SVE Modeling Parameters (if applicable)		**Enter AS Modeling Parameters (if applicable)**		
	SVE Stack Diameter (inches):		AS Stack Diameter (inches):		
	SVE Stack Exit Velocity[2] (feet per second):		AS Stack Exit Velocity[2] (feet per second):		
	SVE Stack Exit Temperature (°F):		AS Stack Exit Temperature (°F):		
	SVE Annual Dispersion Factor ((µg/m^3)/g/s)	Contact MPCA	AS Annual Dispersion Factor ((µg/m^3)/g/s)	Contact MPCA	
	SVE 1-hr Dispersion Factor ((µg/m^3)/g/s)	Contact MPCA	AS 1-hr Dispersion Factor ((µg/m^3)/g/s)	Contact MPCA	

Chemical Name	CAS #	SVE Emission Concentration (µg/m^3)	SVE Emission Rate (µg/sec)	AS Influent Groundwater Concentration (µg/L)	AS Effluent Groundwater Concentration (µg/L)	Removal Factor (dimension-less)	AS Emission Rate (µg/sec)
Acetone	67-64-1						
Benzene	71-43-2						
Benzyl chloride	100-44-7						
Bromodichloromethane	75-27-4						
Bromoform	75-25-2						
Bromomethane (Methyl bromide)	74-83-9						
1,3-Butadiene	106-99-0						
2-Butanone (Methyl ethyl ketone, MEK)	78-93-3						
Carbon disulfide	75-15-0						
Carbon tetrachloride	56-23-5						
Chlorobenzene	108-90-7						
Chloroethane (Ethyl chloride)	75-00-3						
Chloroform	67-66-3						
Chloromethane (Methyl chloride)	74-87-3						
Cyclohexane	110-82-7						
Dibromochloromethane	124-48-1						
1,2-Dibromoethane (Ethylene dibromide, EDB)	106-93-4						
1,2-Dichlorobenzene	95-50-1						
1,3-Dichlorobenzene	541-73-1						
1,4-Dichlorobenzene	106-46-7						
1,1-Dichloroethane	75-34-3						
1,2-Dichloroethane (DCA)	107-06-2						
1,1-Dichloroethene (DCE)	75-35-4						
cis-1,2-Dichloroethene	156-59-2						
trans-1,2-Dichloroethene	156-60-5						
Dichlorodifluoromethane (Freon 12)	75-71-8						
1,2-Dichloropropane	78-87-5						
cis-1,3-Dichloropropene	10061-01-5						
trans-1,3-Dichloropropene	10061-02-6						
Dichlorotetrafluoroethane (Freon 114)	76-14-2						
Ethanol	64-17-5						
Ethyl acetate	141-78-6						
Ethylbenzene	100-41-4						
4-Ethyltoluene	622-96-8						
n-Heptane	142-82-5						
Hexachloro-1,3-butadiene	87-68-3						
n-Hexane	110-54-3						
2-Hexanone (Methyl butyl ketone)	591-78-6						
4-Methyl-2-pentanone (Methyl isobutyl ketone, MIBK)	108-10-1						
Methylene chloride (Dichloromethane)	75-09-2						
Methyl-tert-butyl ether (MTBE)	1634-04-4						
Naphthalene	91-20-3						
2-Propanol (Isopropyl alcohol)	67-63-0						

Minnesota Pollution Control Agency

Petroleum Remediation Program Air Emissions Screening Spreadsheet

Soil Vapor Extraction (SVE) and/or Air Stripper (AS) Data Input Worksheet

Doc Type: Corrective Action Design

MPCA Leak ID: MN BIO BUSINESS CENTER	**Enter SVE Standard Parameters**		**Enter AS Standard Parameters**		
Sample Date: 04/17/2012	Distance to Nearest Receptor (feet):	33	Distance to Nearest Receptor (feet):	33	
Person Completing Worksheet: KAB	SVE Stack Height (feet):	26.2	Air Stripper Stack Height (feet):	26.2	
Notes: Use this area to provide comments regarding the sampling event, input parameters, etc.	SVE Stack Flow Rate (SCFM[1]):	29	Air Stripper Influent Flow Rate (L/s):	0.036	
	Enter SVE Modeling Parameters (if applicable)		**Enter AS Modeling Parameters (if applicable)**		
	SVE Stack Diameter (inches):		AS Stack Diameter (inches):		
	SVE Stack Exit Velocity[2] (feet per second):		AS Stack Exit Velocity[2] (feet per second):		
	SVE Stack Exit Temperature (°F):		AS Stack Exit Temperature (°F):		
	SVE Annual Dispersion Factor ((µg/m^3)/g/s)	Contact MPCA	AS Annual Dispersion Factor ((µg/m^3)/g/s)	Contact MPCA	
	SVE 1-hr Dispersion Factor ((µg/m^3)/g/s)	Contact MPCA	AS 1-hr Dispersion Factor ((µg/m^3)/g/s)	Contact MPCA	

Chemical Name	CAS #	SVE Emission Concentration (µg/m^3)	SVE Emission Rate (µg/sec)	AS Influent Groundwater Concentration (µg/L)	AS Effluent Groundwater Concentration (µg/L)	Removal Factor (dimension-less)	AS Emission Rate (µg/sec)
Propylene (methylethylene or propene)	115-07-1						
Styrene	100-42-5						
1,1,2,2-Tetrachloroethane	79-34-5						
Tetrachloroethylene (PCE)	127-18-4	20,600	284	37	0	1.00	1
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	51,200	706				
1,2,4-Trimethylbenzene	95-63-6						
1,3,5-Trimethylbenzene	108-67-8						
Vinyl acetate	108-05-4						
Vinyl chloride	75-01-4						
m&p-Xylene	108-38-3						
o-Xylene	95-47-6						

[1]SCFM = standard cubic feet per minute based on a standard temperature of 77° F (25° C, 298.15 K) and a standard pressure of 1 atmosphere (14.7 pounds per square inch, 29.92 inches of mercury, 760 millimeters of mercury).

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

Minnesota Pollution Control Agency

Petroleum Remediation Program Air Emissions Screening Spreadsheet

Soil Vapor Extraction and/or Air Stripper Risk Evaluation Worksheet

Doc Type: Corrective Action Design

MPCA Leak ID: MN BIO BUSINESS CENTER
Sample Date: 04/17/2012
Person Completing Worksheet: KAB

Chemical Name	CAS #	Acute Mixtures Evaluation				Chronic Noncancer Mixtures Evaluation									Excess Lifetime Cancer Risk (guideline value = 1E-5)
		Acute Hazard Quotient	CNS	IRRIT	REPRO	Chronic Noncancer Hazard Quotient	CNS	CV/BLD	IMMUN	KIDN	LIVER/GI	REPRO	RESP	WHOLE BODY	
Acetone	67-64-1														
Benzene	71-43-2														
Benzyl chloride	100-44-7														
Bromodichloromethane	75-27-4														
Bromoform	75-25-2														
Bromomethane (Methyl bromide)	74-83-9														
1,3-Butadiene	106-99-0														
2-Butanone (Methyl ethyl ketone, MEK)	78-93-3														
Carbon disulfide	75-15-0														
Carbon tetrachloride	56-23-5														
Chlorobenzene	108-90-7														
Chloroethane (Ethyl chloride)	75-00-3														
Chloroform	67-66-3														
Chloromethane (Methyl chloride)	74-87-3														
Cyclohexane	110-82-7														
Dibromochloromethane	124-48-1														
1,2-Dibromoethane (Ethylene dibromide, EDB)	106-93-4														
1,2-Dichlorobenzene	95-50-1														
1,3-Dichlorobenzene	541-73-1														
1,4-Dichlorobenzene	106-46-7														
1,1-Dichloroethane	75-34-3														
1,2-Dichloroethane (DCA)	107-06-2														
1,1-Dichloroethene (DCE)	75-35-4														
cis-1,2-Dichloroethene	156-59-2														
trans-1,2-Dichloroethene	156-60-5														
Dichlorodifluoromethane (Freon 12)	75-71-8														
1,2-Dichloropropane	78-87-5														
cis-1,3-Dichloropropene*	10061-01-5														
trans-1,3-Dichloropropene*	10061-02-6														
Dichlorotetrafluoroethane (Freon 114)	76-14-2														
Ethanol	64-17-5														
Ethyl acetate	141-78-6														
Ethylbenzene	100-41-4														
4-Ethyltoluene	622-96-8														
n-Heptane	142-82-5														
Hexachloro-1,3-butadiene	87-68-3														
n-Hexane	110-54-3														
2-Hexanone (Methyl butyl ketone)	591-78-6														
4-Methyl-2-pentanone (Methyl isobutyl ketone, MIBK)	108-10-1														
Methylene chloride (Dichloromethane)	75-09-2														
Methyl-tert-butyl ether (MTBE)	1634-04-4														
Naphthalene	91-20-3														
2-Propanol (Isopropyl alcohol)	67-63-0														
Propylene (methylethylene or propene)	115-07-1														
Styrene	100-42-5														
1,1,2,2-Tetrachloroethane	79-34-5														
Tetrachloroethylene (PCE)	127-18-4	0.0	0.0	0.0		0.0	0.0								2E-07
Tetrahydrofuran	109-99-9														

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		Acute Hazard Quotient	CNS	IRRIT	REPRO	Chronic Noncancer Hazard Quotient	CNS	CV/BLD	IMMUN	KIDN	LIVER/GI	REPRO	RESP	WHOLE BODY	
Toluene (Methylbenzene)	108-88-3														
1,2,4-Trichlorobenzene	120-82-1														
1,1,1-Trichloroethane (Methyl chloroform)	71-55-6														
1,1,2-Trichloroethane	79-00-5														
Trichloroethylene (TCE)	79-01-6														
Trichlorofluoromethane (Freon 11)	75-69-4														
Trichlorotrifluoroethane (Freon 113)	76-13-1					0.0								0.0	
1,2,4-Trimethylbenzene	95-63-6														
1,3,5-Trimethylbenzene	108-67-8														
Vinyl acetate	108-05-4														
Vinyl chloride	75-01-4														
m&p-Xylene**	108-38-3														
o-Xylene**	95-47-6														
Hazard Index:			0.0	0.0	0.0		0.0	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