

November 18, 2011

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 July 25, 2011 through October 27, 2011, as well as quarterly groundwater monitoring data from samples collected on August 28, 2011.

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 and takes 6 hours to complete one full cycle. On September 8, 2011, the DPE system operational configuration was switched to focus on DPE-1, DPE-2, DPE-3, and DPE-4, based on DPE well perchloroethene (PCE) analytical results and photo-ionization detector readings from the August 28, 2011, monitoring event. During one full 6-hour cycle, DPE-1, DPE-2, DPE-3, and DPE-4 each operate for 85 minutes before switching to the next well, while DPE-5, DPE-6, DPE-7, and DPE-8 each operate for 5 minutes before switching to the next well. DPE-5, DPE-6, DPE-7, and DPE-8 were kept in the 6 hour cycle to help prevent the solenoid valves from deteriorating if left off for a long period of time. 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 October 27, 2011, 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 11,328 ug/m^3 , a decrease of 99.9 percent (See Figures 4A and 4B, and Tables 2 and 3). PCE concentrations decreased from 11,600,000 ug/m^3 to 180 ug/m^3 , a decrease of 99.9 percent from the baseline concentration (See Figures 4A and 4B, and Tables 2 and 3). The PCE concentrations from the July 25, August 28, September 29 and October 27, 2011, 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 8,324 ug/m^3 on August 28, 2011, to 106,710 ug/m^3 on September 29, 2011. However, on October 27, 2011, after another month of system operation at DPE-1, DPE-2, DPE-3, and DPE-4, total VOC concentration decreased to 11,328 ug/m^3 . PCE concentrations increased from 0 ug/m^3 on August 28, 2011, to 3,420 ug/m^3 on September 29, 2011, as a result of switching the DPE system operational configuration. On October 27, 2011, the PCE concentration decreased to 180 ug/m^3 .

The DPE system removed 22.3 pounds of total VOCs, including 0.7 pounds from PCE, from July 25, 2011, through October 27, 2011 (see Figure 5 and Table 2). Through October 27, 2011, the DPE system has removed a total of 3,389 pounds of total VOCs and 2,634 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 July 25, 2011, through October 27, 2011, 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 was 0.54 pounds on October 27, 2011. 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 July 25 through October 27, 2011 (see Figures 6, 7, 8A, 8B, 8C, 8D and 8E). The elevated groundwater elevation at DPE-1 on August 28, 2011, appears to be a data outlier when compared to the elevation data collected at all of the other wells during this sampling event. The increase in groundwater elevations observed on October 18, 2011, was from the system being shut down from October 2 through 18, 2011. The system was shut down during this period while a replacement tri-level float switch was being built for moisture separator MS-1. The

replacement float switch assemble was reinstalled on October 18, 2011, and the system was restarted. 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 August 28, 2011. After approximately two years of DPE system operation, the PCE concentrations have decreased at all of the monitoring and DPE wells, except for DPE-7 and MW-19. However, the concentrations at these two locations was low when the DPE system operation started, and the concentration of PCE has only increased from 22.3 to 26.7 micrograms per liter (ug/L) at DPE-7, and from 2.4 to 2.9 ug/L at MW-19 (see Figure 9 and Table 9). The PCE concentration at MW-19 is still below 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 is listed as follows: MW-14 (95.1%), MW-15 (98.8%), MW-16 (95.8%), MW-17 (70.5%), MW-18 (98.6%), MW-20 (98%), DPE-1 (99.8%), DPE-2 (94.6%), DPE-3 (97.2%), DPE-4 (97.8%), DPE-5 (100%), DPE-6 (95.9%), and DPE-8 (95.1%). Increased concentrations of PCE, when compared to the May 2011 groundwater data were observed at MW-15, DPE-1, DPE-2, DPE-3, DPE-4, DPE-7 and DPE-8. Figure 10 shows the iso-concentration contour map for PCE during the August 28, 2011, 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 October, 27, 2011, the DPE system removed 3,389 pounds of total VOCs, including 2,634 pounds of PCE from the subsurface.
- When comparing the October 27, 2011, concentrations to the baseline emissions data from April 9, 2009, the total VOC and PCE concentrations have decreased 99.9 percent.

- The DPE system removed 22.3 pounds of total VOCs, including 0.7 pounds of PCE from July 25, 2011, through October, 27, 2011.
- Contaminant removal from the DPE system has decreased compared to the first 15 months of DPE system operation. During the past 12 months, the DPE system has removed an average of 5.9 pounds of total VOCs per month and 0.6 pounds of PCE per month.
- 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. However, after approximately 34 days of system operations, the total VOC and PCE concentrations and mass removal decreased to levels observed prior to switching the operational configuration.
- During this reporting period, the site specific emissions rates for PCE were below the MPCA's PR Program acute and chronic emissions criteria.
- Although seasonal fluctuations and DPE system shutdown periods have contributed to increases in the groundwater elevations, sequential operation of all DPE system wells has effectively lowered the water table at the Property. 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 appear to be decreasing at a faster rate than previously observed.
- DPE system operation has effectively decreased the concentrations of PCE in the groundwater at the following wells: MW-14 (95.1%), MW-15 (98.8%), MW-16 (95.8%), MW-17 (70.5%), MW-18 (98.6%), MW-20 (98%), DPE-1 (99.8%), DPE-2 (94.6%), DPE-3 (97.2%), DPE-4 (97.8%), DPE-5 (100%), DPE-6 (95.9%), and DPE-8 (95.1%).

Recommendations

Landmark recommends continued operation of the DPE system 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. If the current operational configuration continues to lower the groundwater elevations at a faster rate, it may be possible to expose potential subsurface contamination closer to the bottom of the wells. Monthly system operational, analytical, and fluid level data will be collected to better evaluate the system's effectiveness at accomplishing remedial goals, and to make adjustments as necessary to increase effectiveness. This data will be carefully monitored and analyzed, and system adjustments will be made to maintain efficient mass recovery. DPE system emissions rates will continue to be evaluated to ensure the MPCA's acute and chronic risk criteria are not exceeded. Groundwater monitoring will continue on a quarterly basis to assist in evaluating the effect of the DPE system on VOC concentrations in the groundwater. The monthly DPE system

operational results and the groundwater monitoring results will continue to be submitted to the MPCA on a quarterly basis.

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,

A handwritten signature in black ink, appearing to read "Jason D. Skramstad". The signature is fluid and cursive, with the first letters of the first and last names being capitalized and prominent.

Jason D. Skramstad, P.E.

Cc: Terry Spaeth, City of Rochester

F:\PROJECTS\Crc\Monthly System Reports\2011\120 DPE GW Quarterly Report

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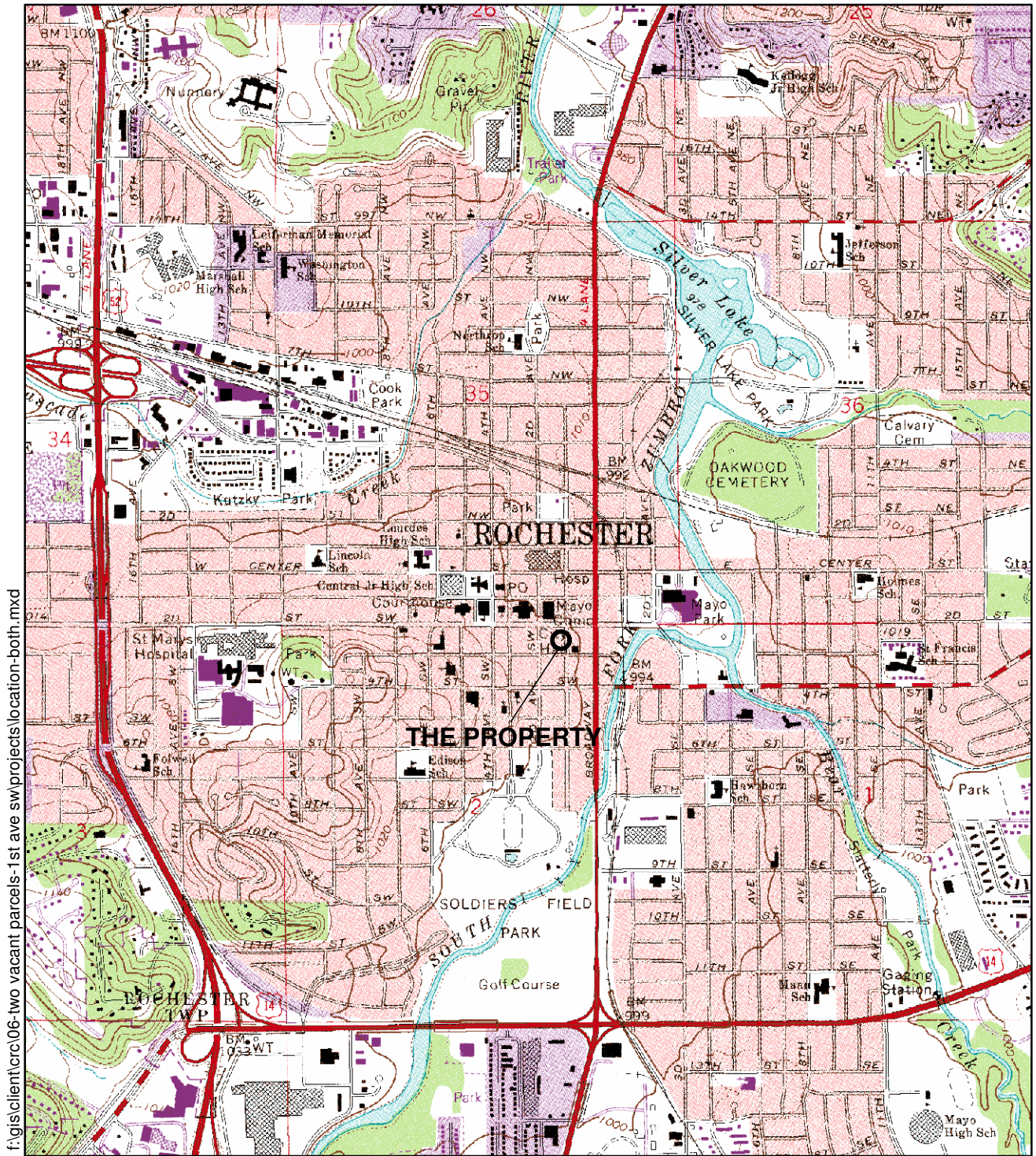
Attachment B

Analytical Results for Air, Groundwater and Wastewater from July 2011 to October 2011

Attachment C

PRP Worksheets from July 2011 to October 2011

Figures



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

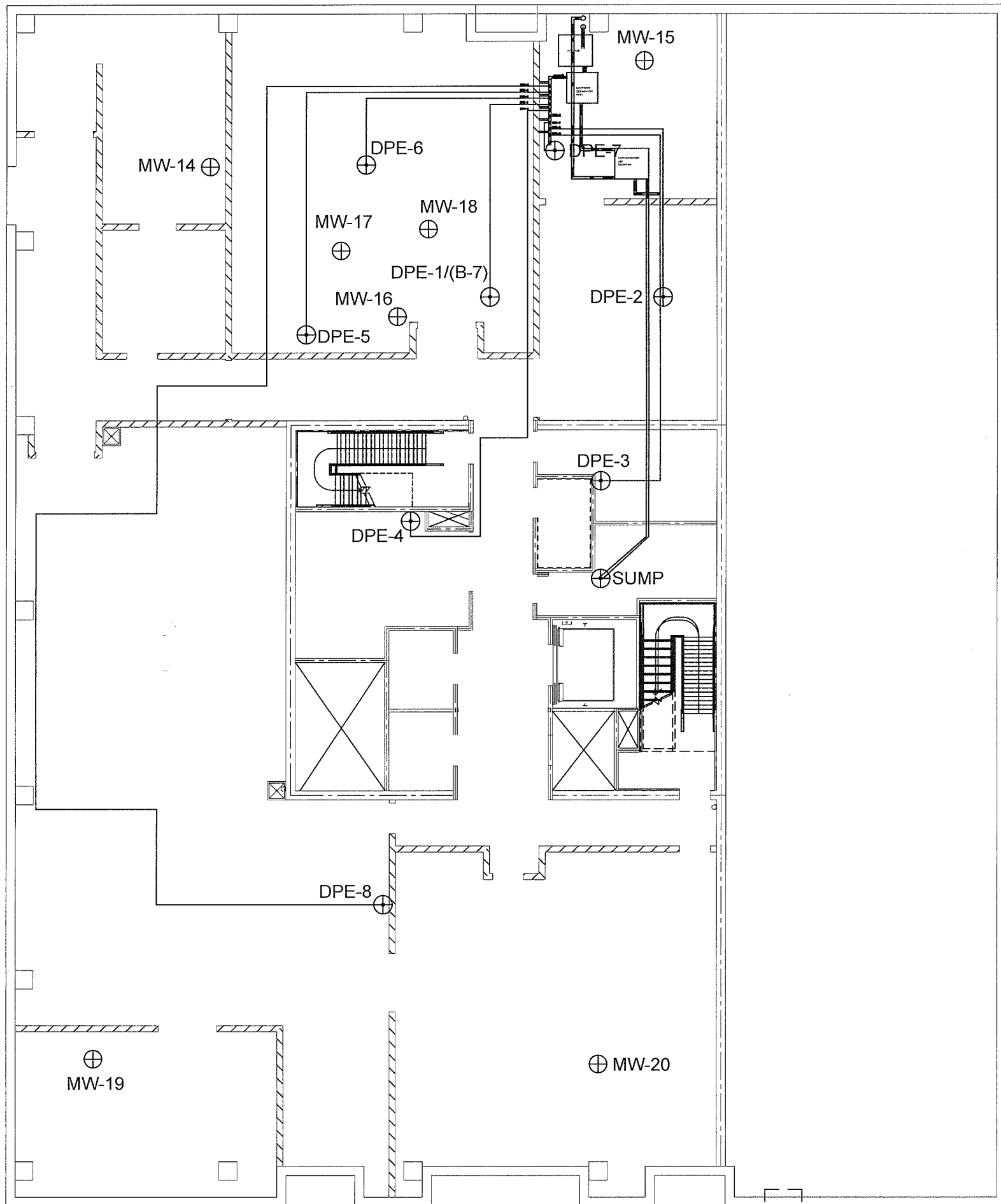
Source: Rochester, Minnesota Topographic Quadrangle, 7.5-Minute Series



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



20 feet
SCALE

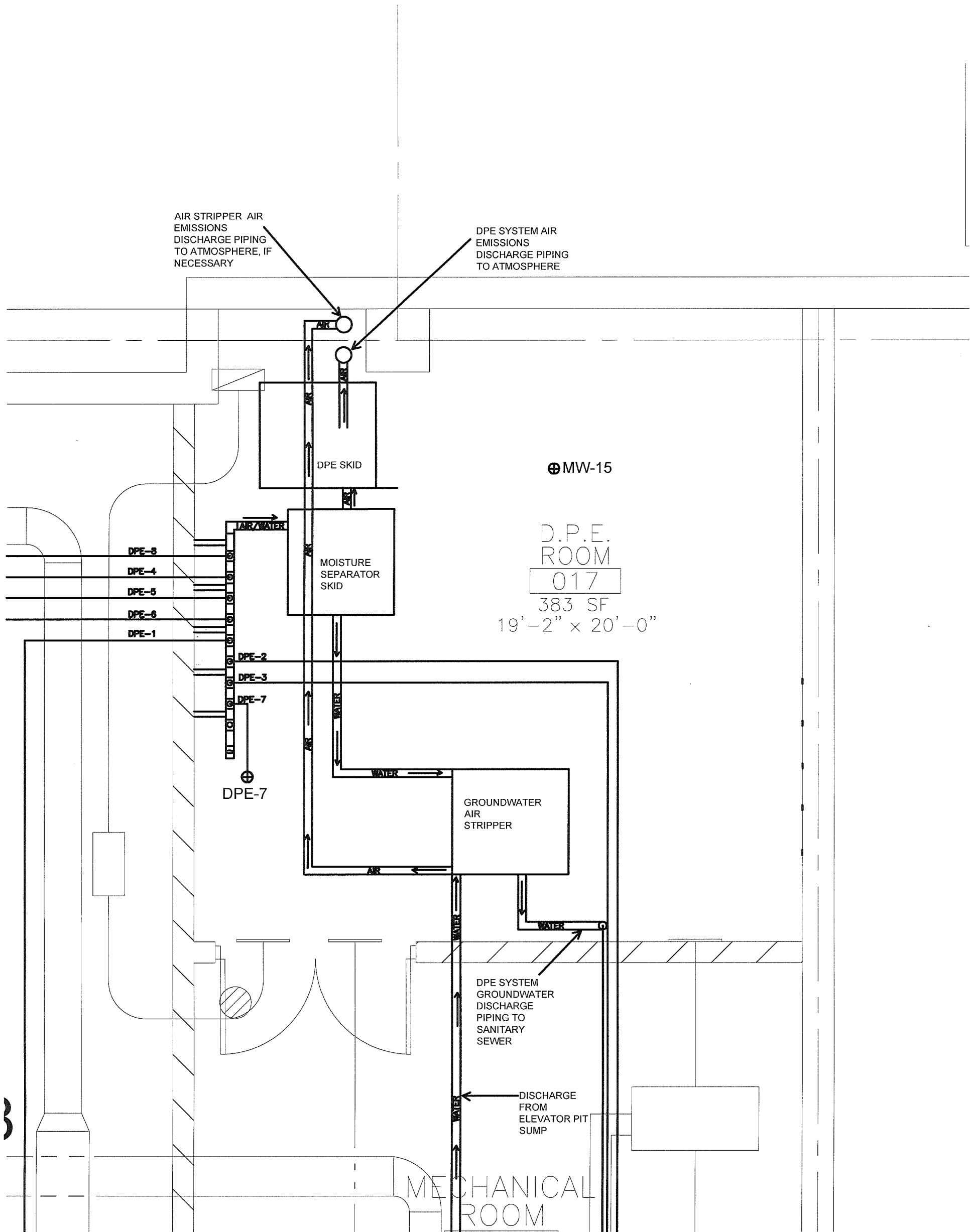
BASEDRAWINGS PROVIDED BY HGA
F:/Projects/CRC/CAD/Groundwater Data/20090128 Well Locations.dwg

Rev	Date	By	Description

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

**FIGURE 2
DPE SYSTEM LAYOUT**
221 FIRST AVENUE S.W.
ROCHESTER, MINNESOTA

Landmark Project Number: CRC			
Drawn: JDS	Checked: JDS	Designed: JDS	
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NOTES:

1. Air emissions generated from the DPE system shall be discharge to the atmosphere after treatment. Emissions treatment system piping shall be installed above the basement slab consist of 4-inch SCH 80 PVC pipe.
2. Groundwater generated from the DPE system shall be discharged to the sanitary sewer after treatment by an air stripper. Groundwater treatment system piping shall be installed above the basement slab consist of 2-inch SCH 80 PVC pipe.
3. The groundwater and air emissions treatment systems piping shall be installed and pressure tested as described in the technical specifications and proposed drawings.
4. The groundwater and air emissions treatment systems piping shall be installed as shown on the proposed drawings.
5. DPE and air stripper air emissions each have a dedicated 4-inch diameter galvanized steel riser pipe extending from the DPE Room to the building's second level ceiling, where the piping will exit through the west wall of the building to the atmosphere.

LEGEND

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



1 in = 3 ft
APPROXIMATE SCALE

BASEDRAWINGS PROVIDED BY HGA
F:/Projects/CRC/CAD/basement planview/20070829 DPE System/20090423 DPE Room.dwg

Rev	Date	By	Description
1	9-19-2008	JDS	RFP-1 FINAL REVISION
2	4-23-09	JDS	GWTS & Emissions TMT

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2042 West 98th Street
Bloomington, MN 55431

**FIGURE 3
DPE ROOM LAYOUT**
219 AND 223 FIRST AVENUE S.W.
ROCHESTER, MINNESOTA

Landmark Project Number: CRC		
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FIGURE 4A

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

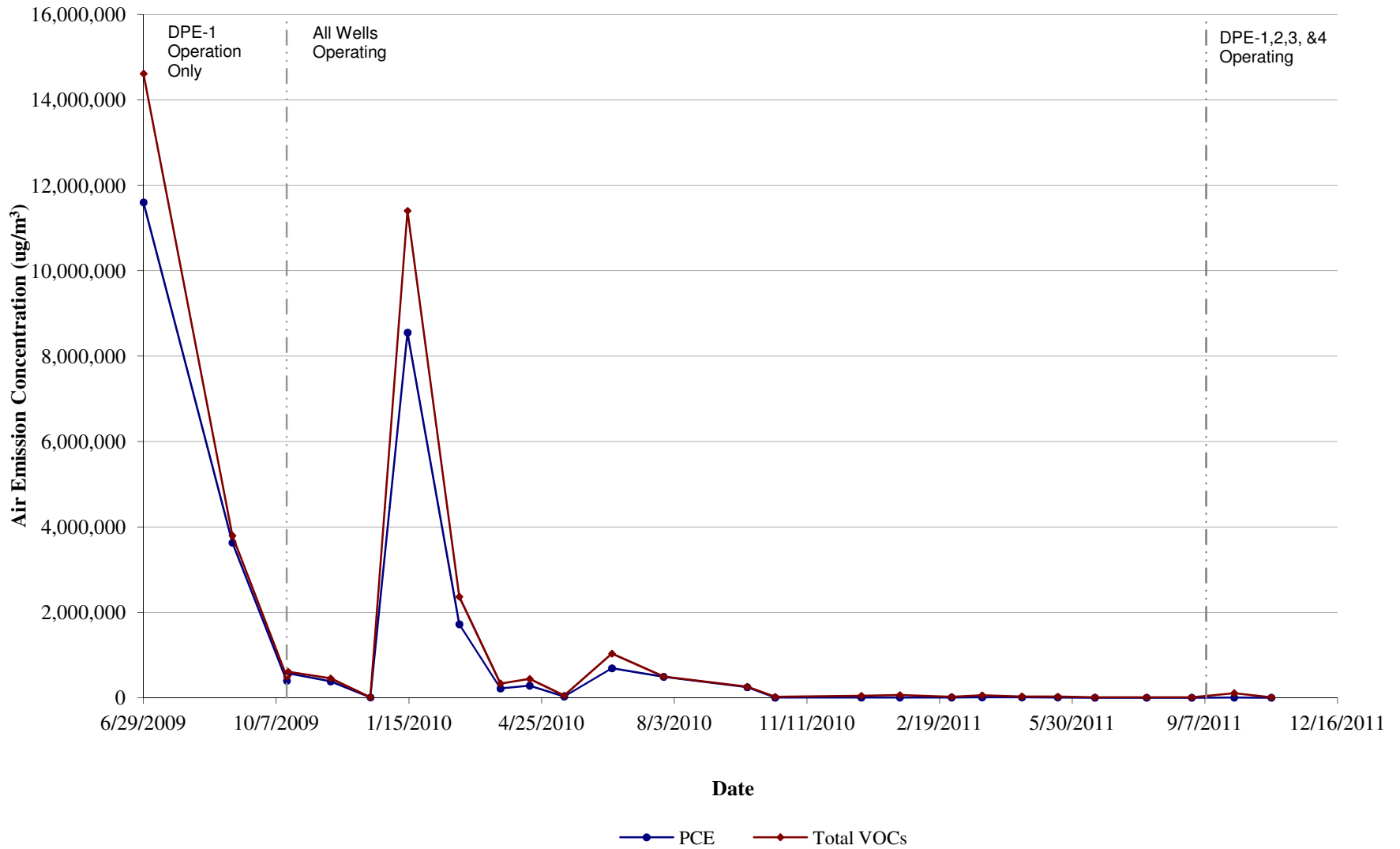


FIGURE 4B

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

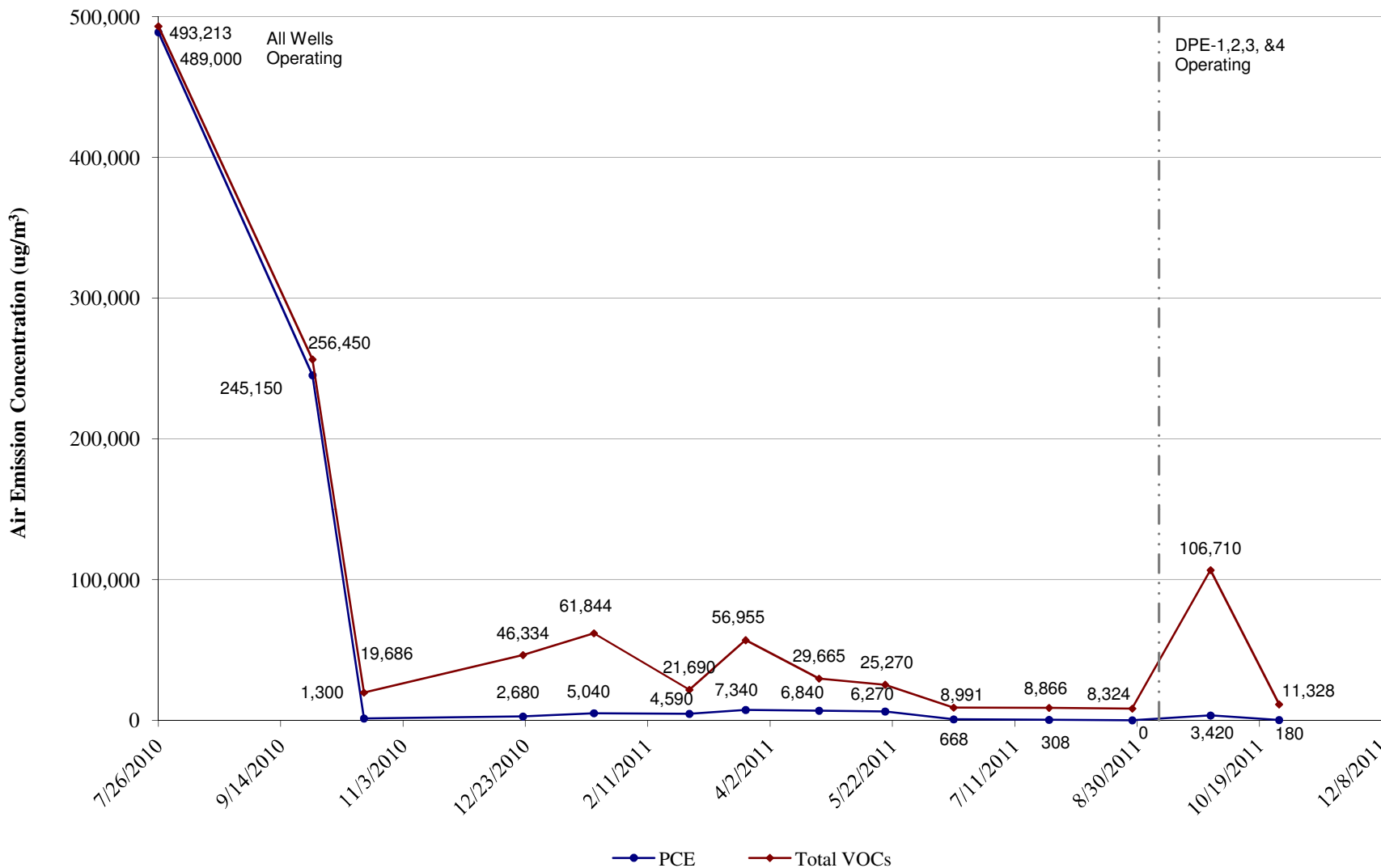


FIGURE 5

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

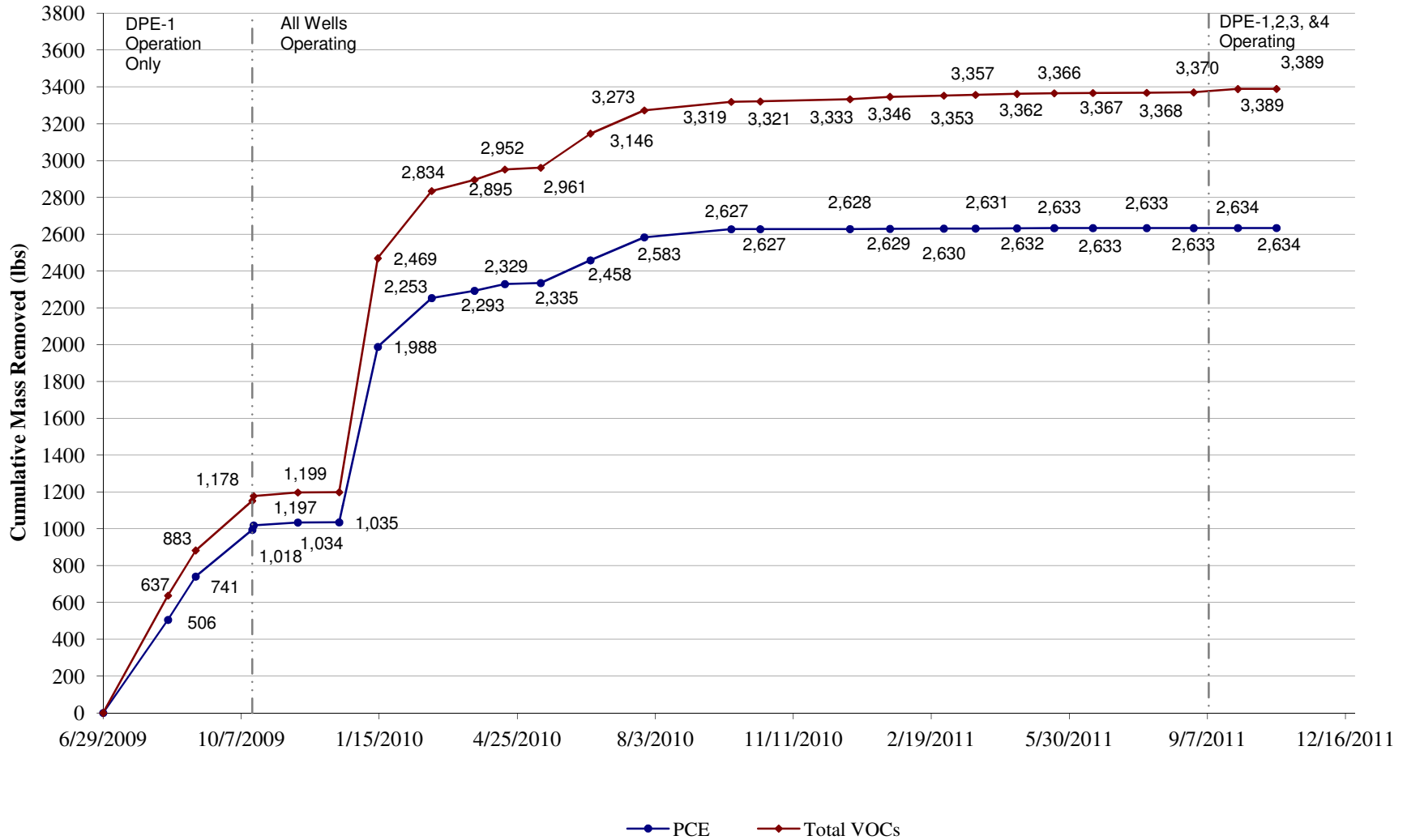


FIGURE 6

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

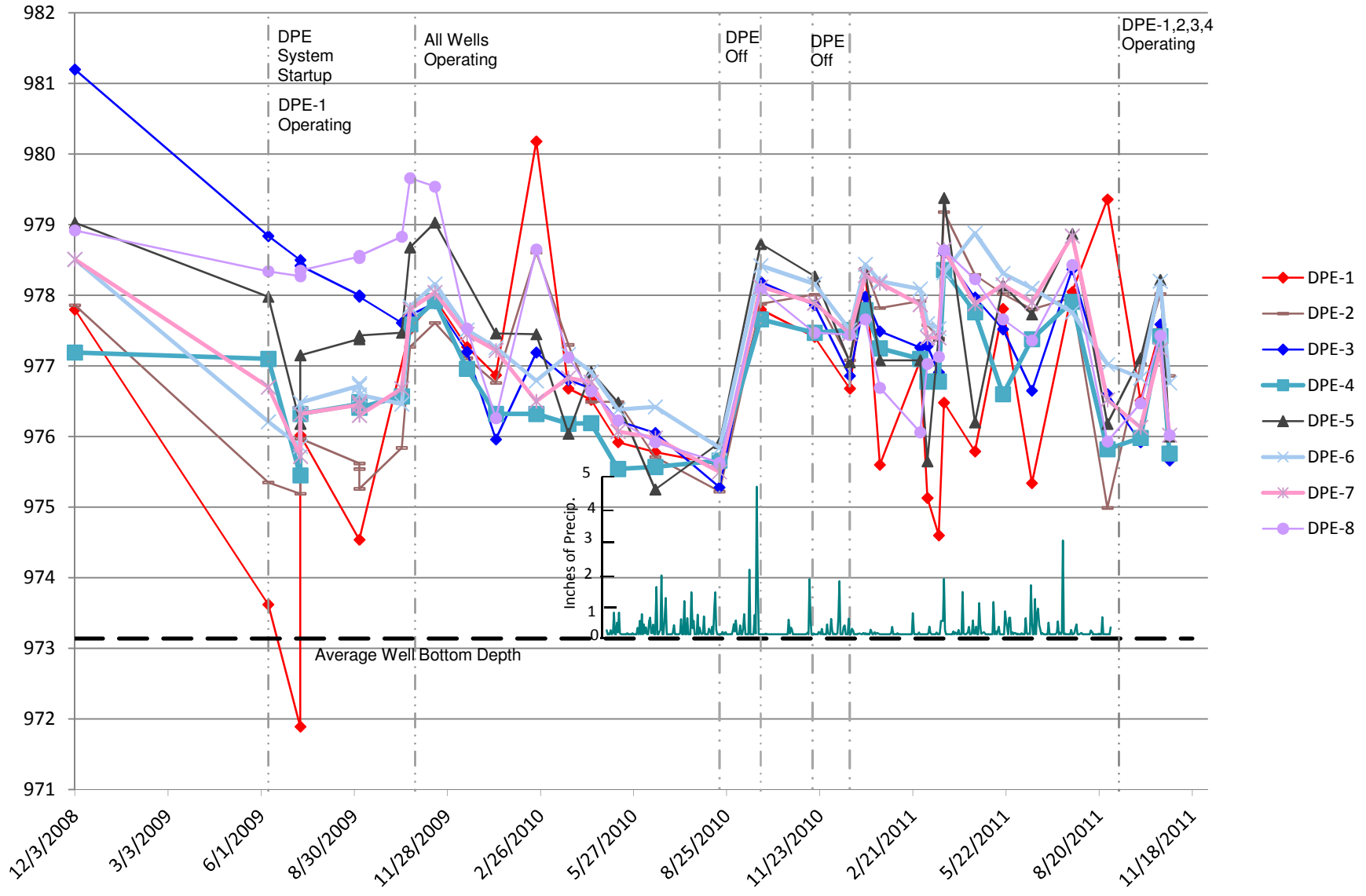
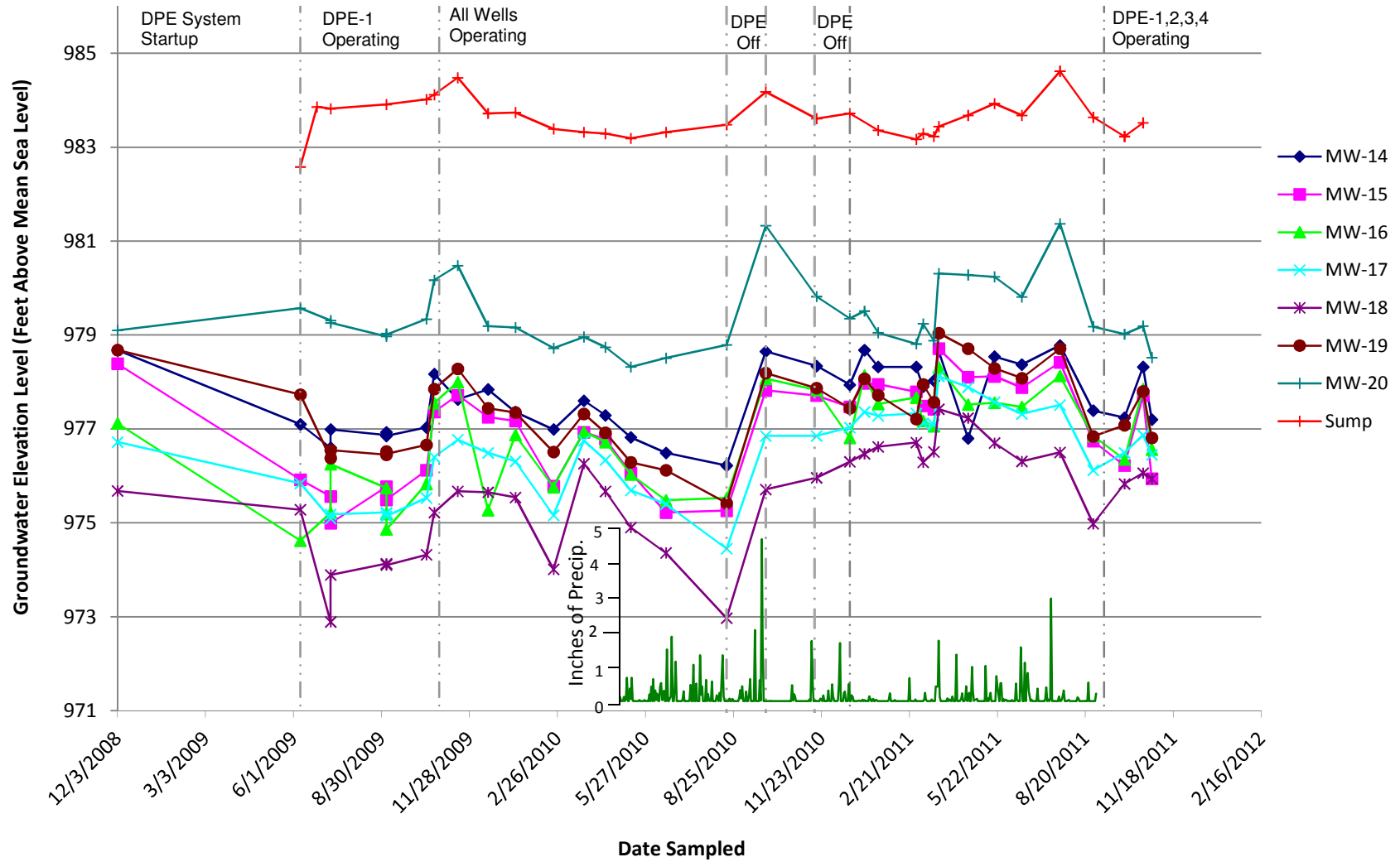
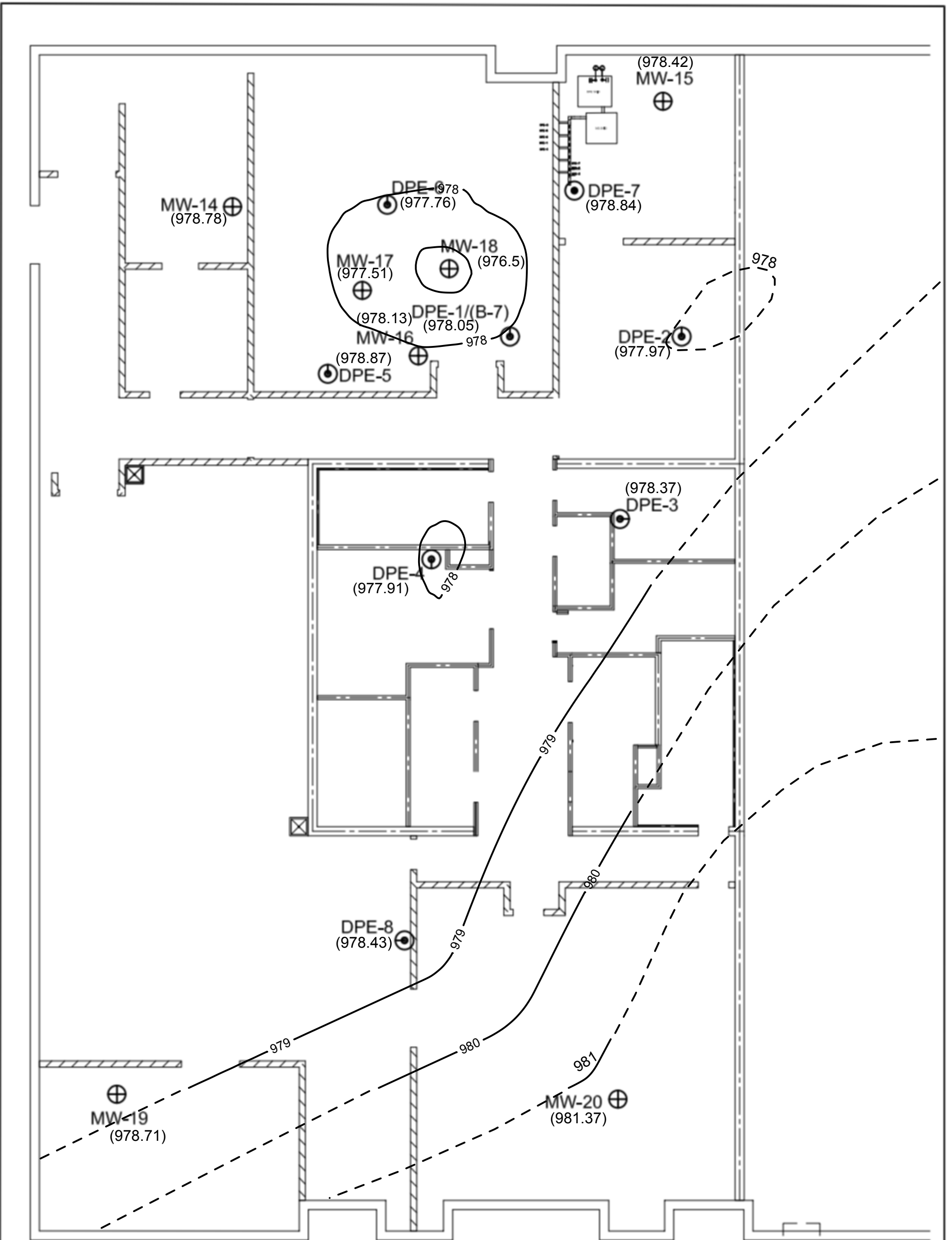


FIGURE 7

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





LEGEND

- ⊙ DPE Well Location
- ⊕ Monitoring Well Location

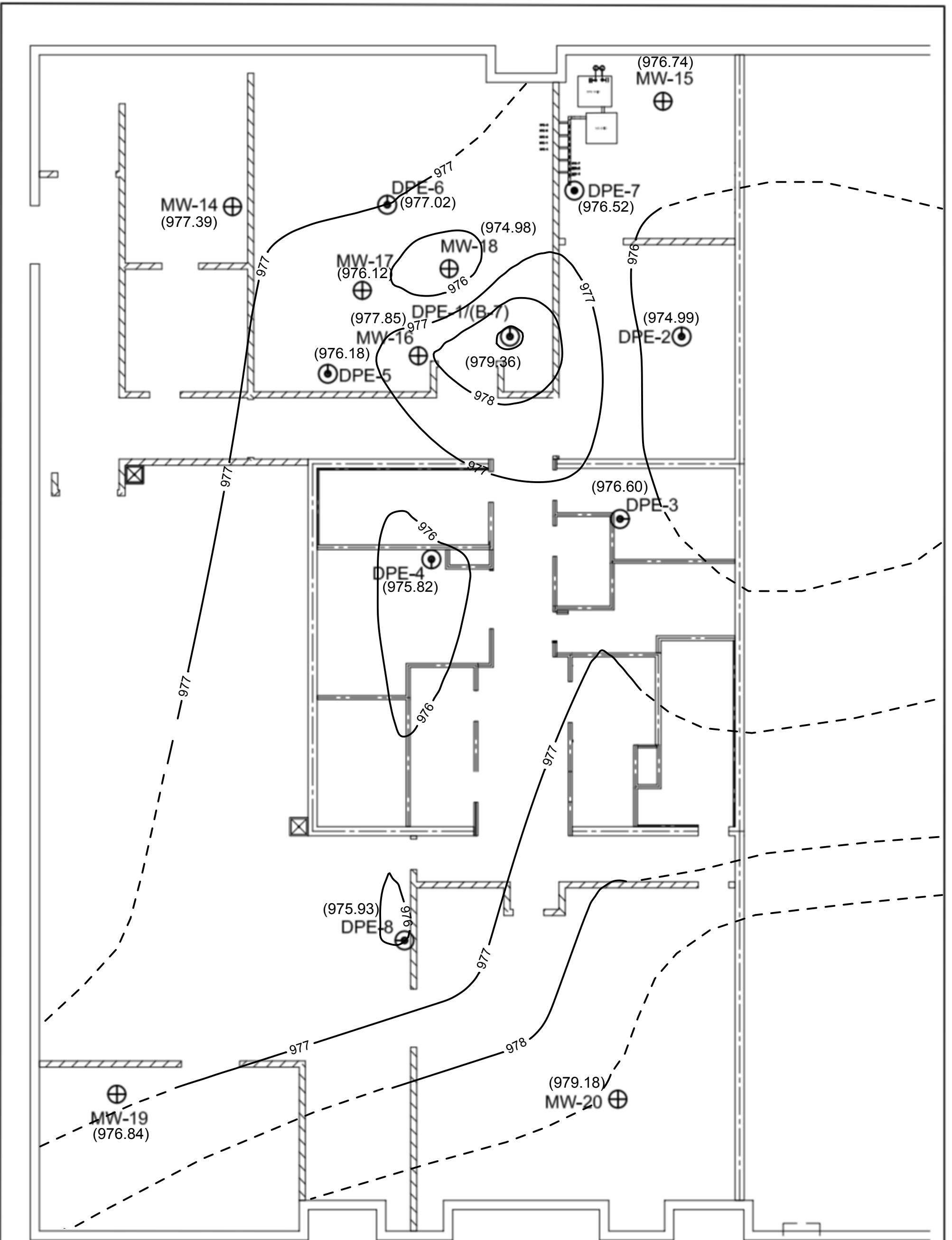
(976.92) Groundwater Elevation (feet above mean sea level)



10 feet
SCALE

BASE DRAWING PROVIDED BY HGA

Rev	Date	By	Description	LANDMARK ENVIRONMENTAL, LLC 2042 West 98th Street Bloomington, MN 55431	FIGURE 8A GROUNDWATER FLOW INTERPRETATION- JULY 2011 221 FIRST AVENUE S.W. ROCHESTER, MINNESOTA	Landmark Project Number: CRC			
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LEGEND

- ⊙ DPE Well Location
- ⊕ Monitoring Well Location

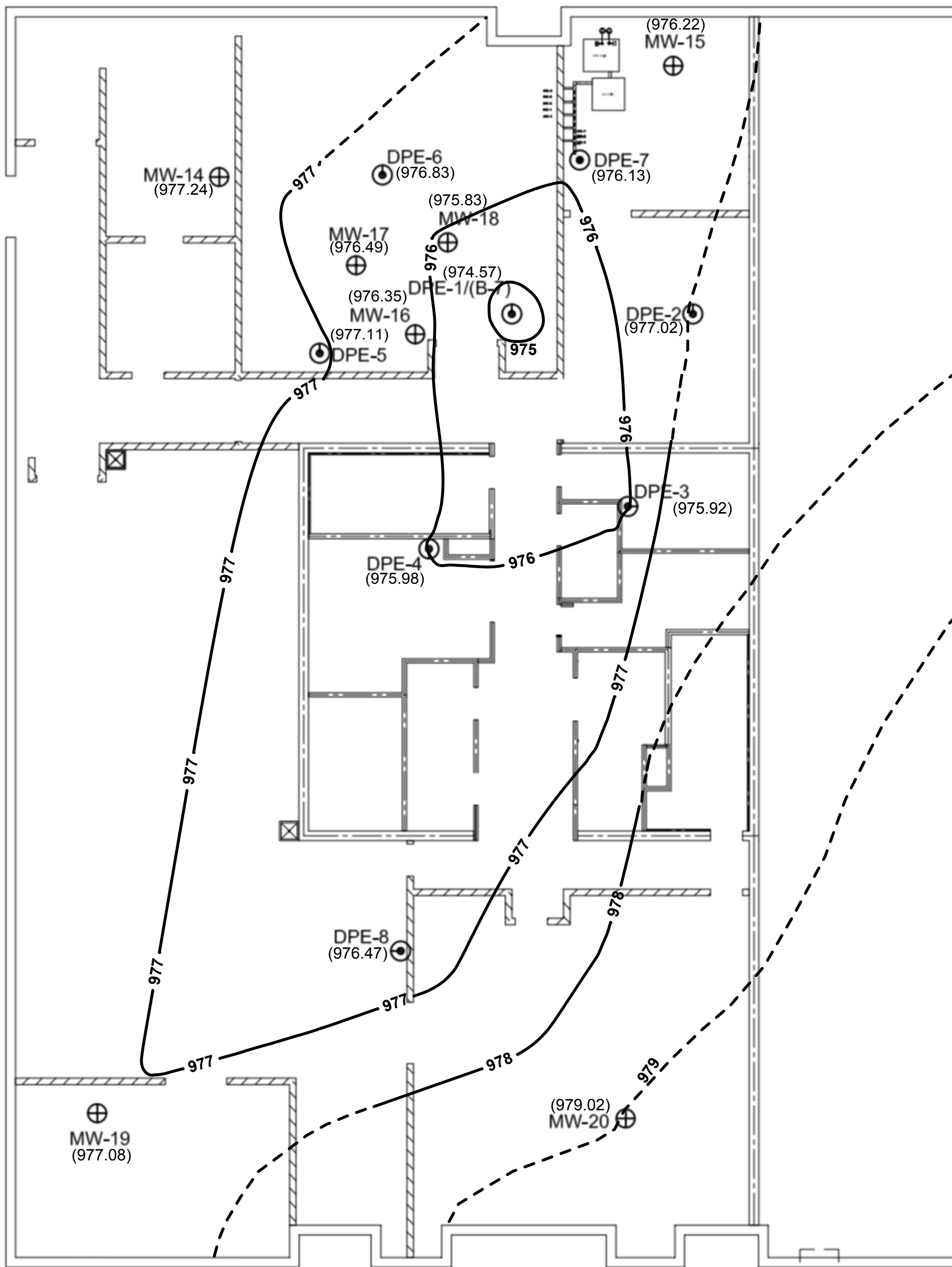
(976.92) Groundwater Elevation (feet above mean sea level)



10 feet
SCALE

BASE DRAWING PROVIDED BY HGA

Rev	Date	By	Description	LANDMARK ENVIRONMENTAL, LLC 2042 West 98th Street Bloomington, MN 55431	FIGURE 8B GROUNDWATER FLOW INTERPRETATION- AUGUST 2011 221 FIRST AVENUE S.W. ROCHESTER, MINNESOTA	Landmark Project Number: CRC		
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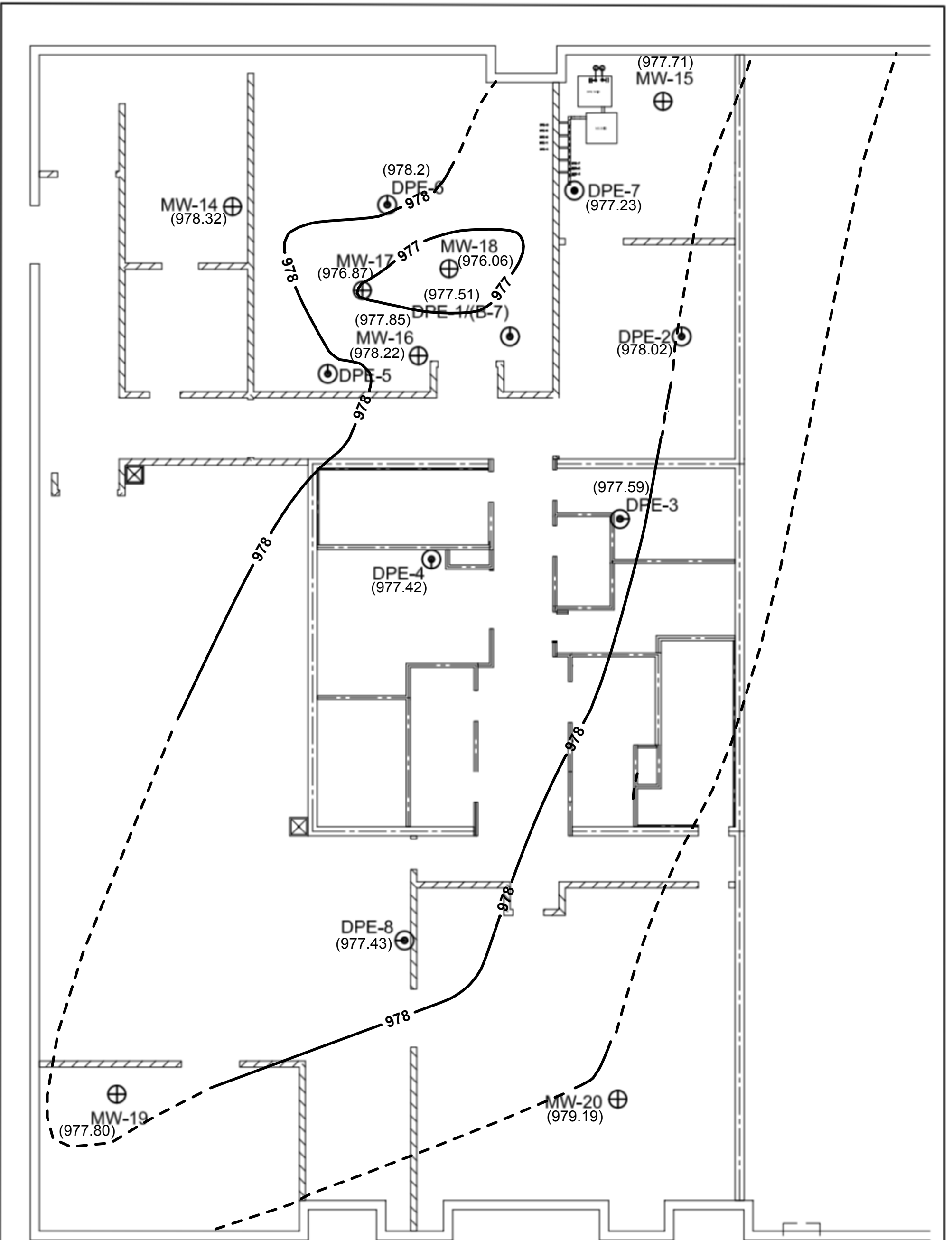
- ⊙ DPE Well Location
- ⊕ Monitoring Well Location
- (976.92) Groundwater Elevation (feet above mean sea level)



10 feet
SCALE

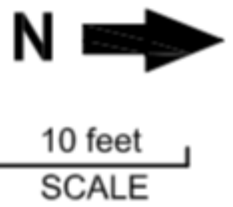
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Rev	Date	By	Description	LANDMARK ENVIRONMENTAL, LLC 2042 West 98th Street Bloomington, MN 55431		FIGURE 8C GROUNDWATER FLOW INTERPRETATION- September 2011 221 FIRST AVENUE S.W. ROCHESTER, MINNESOTA		Landmark Project Number: CRC		
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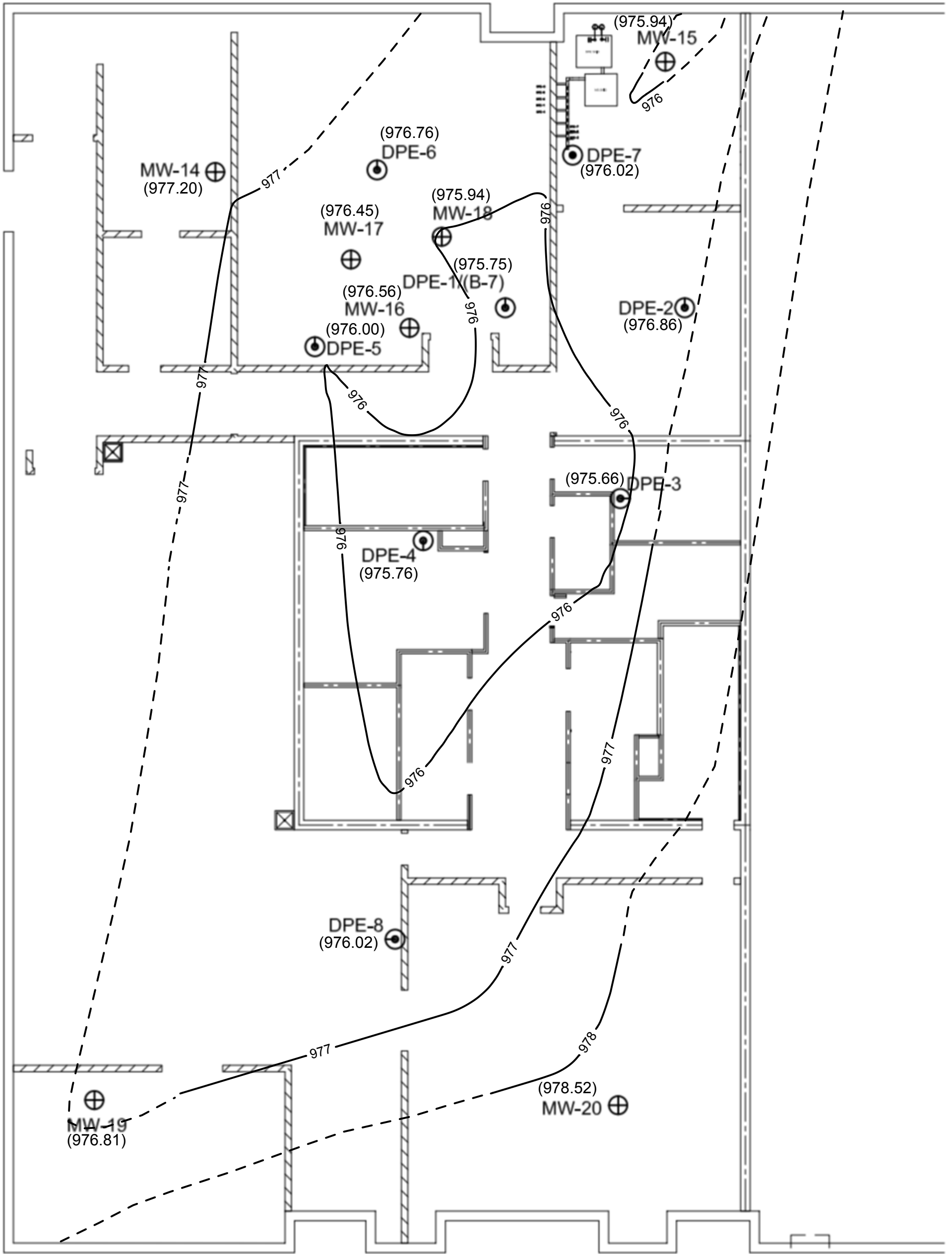
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- ⊙ DPE Well Location
- ⊕ Monitoring Well Location
- (976.92) Groundwater Elevation (feet above mean sea level)



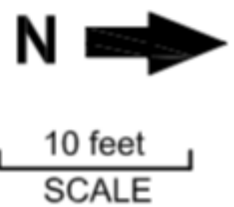
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LEGEND

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

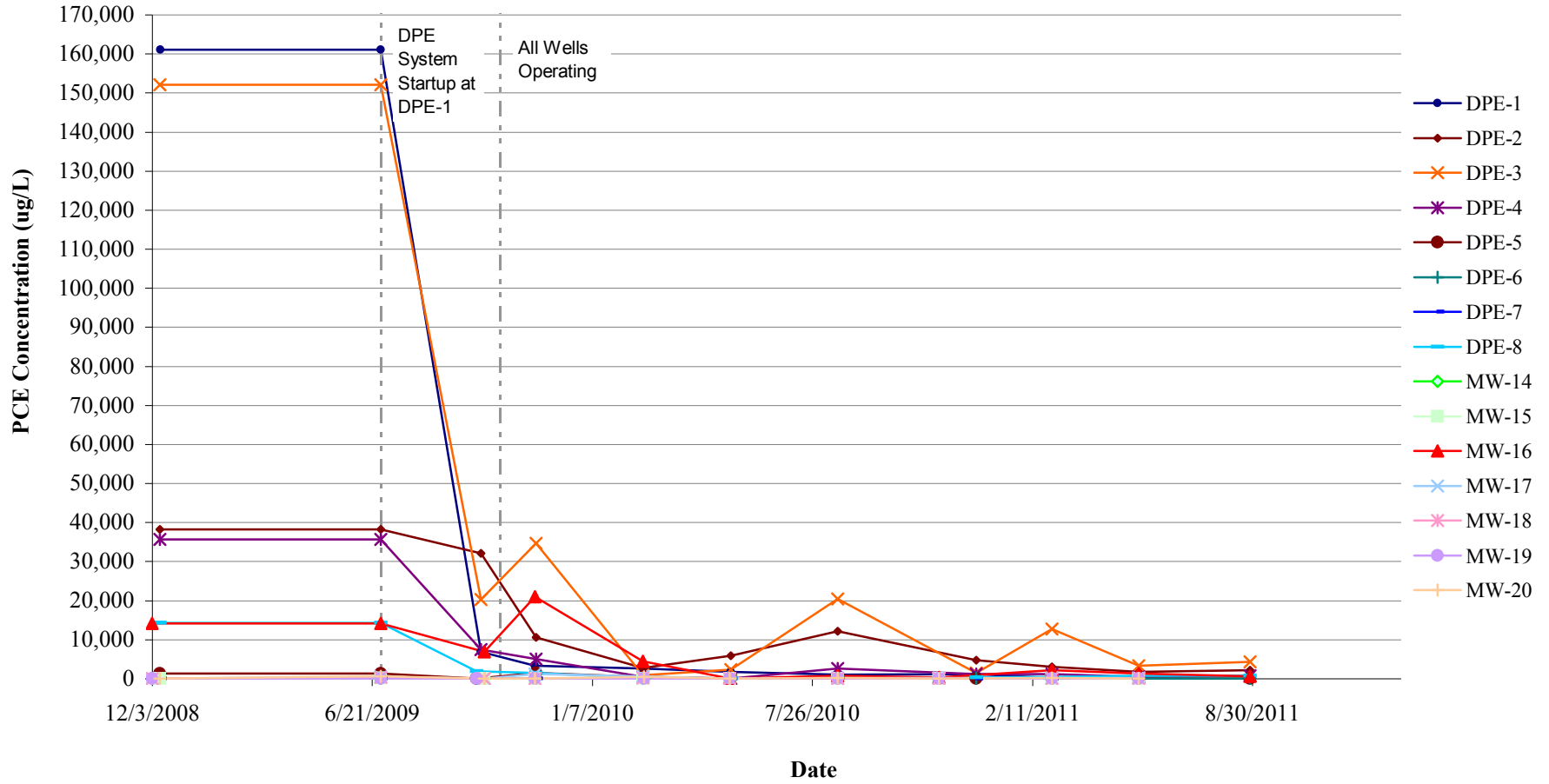


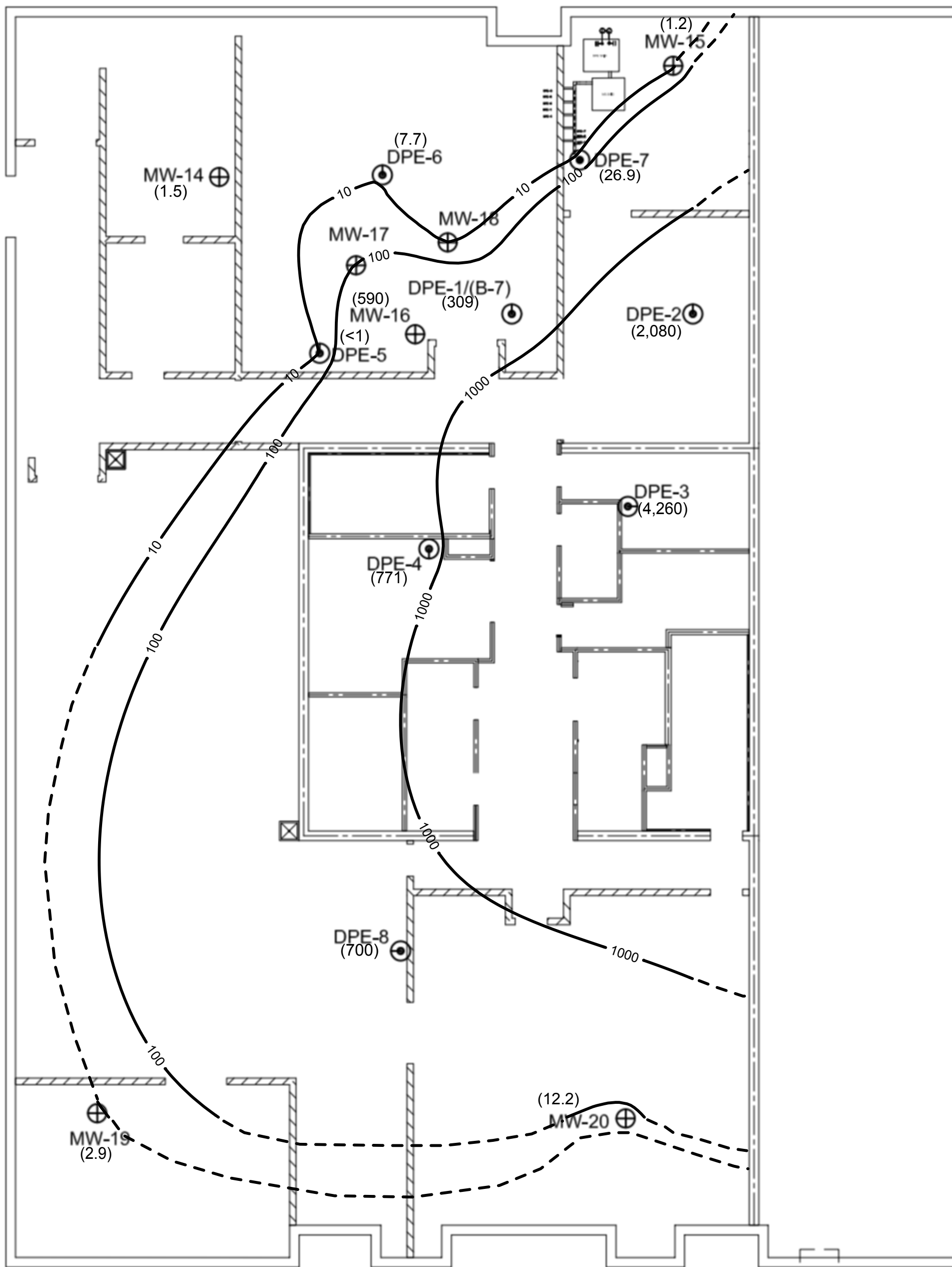
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Rev	Date	By	Description	LANDMARK ENVIRONMENTAL, LLC 2042 West 98th Street Bloomington, MN 55431	FIGURE 8E GROUNDWATER FLOW INTERPRETATION- October 27, 2011 221 FIRST AVENUE S.W. ROCHESTER, MINNESOTA	Landmark Project Number: CRC			
						Drawn: KAB	Checked: JDS	Designed: JDS	
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FIGURE 9

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





LEGEND

- ⊙ DPE Well Location
- ⊕ Monitoring Well Location
- (4.2) PCE Groundwater Concentration (micrograms per liter)

LEGEND

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



10 feet
SCALE

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2042 West 98th Street
Bloomington, MN 55431

FIGURE 10
SHALLOW PCE GROUNDWATER
CONCENTRATION INTERPRETATION
August 2011
221 FIRST AVENUE S.W.
ROCHESTER, MINNESOTA

Landmark Project Number: CRC		
Drawn: KAB	Checked: JDS	Designed: JDS
Scale: .	Date: 7/15/2011	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 while operating on DPE-3. Kept system operating on DPE-1. Sampled groundwater discharge.
18-Jul-09	NA	No	DPE Pump Motor Fault	On/Off	
20-Jul-09	NA	NA	DPE Pump Motor Fault	Off	Received a call from Paramark stating the DPE was off and there was about 1 quart of oil leaking from the DPE pump.
22-Jul-09	NA	NA	DPE Pump Motor Fault	Off	Landmark onsite to troubleshoot DPE system shut down and determine the source of the oil leak.
24-Jul-09	NA	NA	DPE Pump Motor Fault	Off	Landmark and PLC onsite to remove DPE pump and deliver to John Henry Foster for Repair.

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
11-Aug-09	NA	NA	DPE Pump Motor Fault	Off/On	Landmark and PLC onsite to reinstall repaired DPE pump and restart the system. Landmark installed thermometer to monitor the ambient and max temperature in the DPE room in two different locations. Landmark swept, vacuumed, and mopped the floor several times to prevent dust from passing through the vacuum relief valve and clogging the pump inlet screen. PLC fixed the sensophone. PLC and Landmark checked flow rate readings with blower curve. DPE system was restarted.
14-Aug-09	13:17	Y	DPE Pump High Inlet Vacuum	On/Off/On	Paramark opened all of the individual DPE well bleed valves and restarted the system.
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.

TABLE 1

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

Date	Approximate Time	Sensophone Call Received?	Alarm Condition	DPE System Status	Comments
16-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.

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
5-Nov-09	11:16	Y	Hi Vacuum and Hi Inlet Vacuum	On/Off	System shut down from high inlet vacuum while operating at DPE-8.
	11:36	NA	Hi Vacuum and Hi Inlet Vacuum	Off/On	System restarted remotely by Landmark. DPE-8 interval replaced by DPE-1 until Landmark is on site to modify the DPE-8's well head. Large pressure drop observed between VT1 and VT2. With Paramark's assistance, Landmark was able to determine the pressure drop was from a plugged DPE pump inlet screen.
	13:00	NA	NA	On/Off	Large pressure drop observed between VT1 and VT2 while Landmark checked the system remotely. With Paramark's assistance, Landmark was able to determine the pressure drop was from a plugged DPE pump inlet screen. System shut down by Landmark until screen could be cleaned.
6-Nov-09	NA	NA	NA	Off/On	Landmark onsite to install new inlet screen on DPE pump, tighten air stripper rods, inspect and clean inside of DPE-1 and DPE-3 aluminum solenoid valves, and restart the system.
7-Nov-09	20:15	Y	Hi Vacuum and Hi Inlet Vacuum	On/Off	System shut down from high inlet vacuum while operating at DPE-4.
9-Nov-09	10:58	NA	Hi Vacuum and Hi Inlet Vacuum	Off/On	Landmark restarted the system remotely and adjusted the high vacuum alarm setpoints to 25 in. Hg.
15-Nov-09	6:27	Y	MS High Level	On/Off	
11/16/2009 and 11/17/09	NA	NA	MS High Level	Off/On	Landmark on site to conduct monthly monitoring and sampling event and quarterly groundwater monitoring event . Removed sediment from moisture separator, and modified DPE-8 well head, and cleaned pump inlet screen.
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.

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
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 sensophone sound alarm, and remove sediment from the primary moisture separator (MS1).

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
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.

TABLE 1

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

Date	Approximate Time	Sensophone Call Received?	Alarm Condition	DPE System Status	Comments
16-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.

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
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.

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
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 new transfer pump stator as well as cleaned floats..

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
28-Aug-11	11:00	NA	NA	On	Landmark onsite to conduct monthly monitoring and sampling event . Landmark also changed oil at 14,962 hours and installed new transfer pump stator as well as rebuilt DPE-1 solenoid valve.
8-Sep-11	15:18	NA	NA	On	Landmark changed the operational configuration to focus operation on DPE-1, DPE_2, DPE-3, and DPE-4.
29-Sep-11	11:40	NA	NA	On	Landmark onsite to conduct monthly monitoring and sampling event as well as quarterly groundwater sampling event . Landmark also changed oil at 15,722 hours and installed new moisture separator filters (both 1 micron).
2-Oct-11	14:11	Y	Air Stripper High High Level	On/Off	
4-Oct-11	10:46	NA	NA	Off	Landmark onsite to troubleshoot system alarm. Air stripper floats cleaned. Landmark cleaned moisture separator floats at MS-1 and noticed the bottom float was causing the transfer pump to operate continuously. Hunt Electric onsite to troubleshoot MS-1 float issues and confirmed the bottom reed of the tri-level float assembly was causing electrical connection in any float position. Hunt checked wiring from the tri-level assembly to the panel and found no issues.
11-Oct-11	12:28	NA	NA	Off	Landmark onsite replace the tri-level float switch for MS-1 and replace the transfer pump stator. The low float on the tri-level switch was 1/2-inch lower than previous switch and was allowing air through the transfer pump, preventing the low float from shutting down the transfer pump. The tri-level switch was returned to PLC to be rebuilt. Therefore the system could not be restarted.
18-Oct-11	10:00	NA	NA	Off/On	Landmark onsite to install a new float switch assembly for MS-1. System restarted.
27-Oct-11	8:00	NA	NA	On	Landmark onsite to conduct monthly monitoring and sampling event . Landmark also changed oil at 16,013 hours.

NA: Not Applicable.

Y: Yes.

N: No.

TABLE 2

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

Monitoring Period		DPE Well(s) Operating	DPE Pump Hours	Hours Per Period	Total Flow Rate (scfm)	Total VOCs			PCE		
Start Date	End Date					Concentration (ug/m ³)	Pounds Per Period	Cumulative pounds	Concentration (ug/m ³)	Pounds Per Period	Cumulative Pounds
---	6/29/2009	---	0	0	0	0	0	0	0	0	0
6/29/2009 ³	8/15/2009 ¹	DPE-1	478.5	478.5	24.3	14,613,880	636.97	636.97	11,600,000	505.61	505.61
8/15/2009	9/4/2009 ²	DPE-1	957	478.5	36.1	3,795,092	245.74	882.71	3,630,000	235.05	740.66
9/4/2009	---	DPE-1	1428	471	36.1	3,795,092	241.89	1,124.60	3,630,000	231.37	972.02
---	10/15/2009 ⁴	DPE-1	1899	471	31.6	494,779	27.60	1,152.21	396,000	22.09	994.12
10/16/2009 ⁵	---	All Wells	1899	231	48.9	608,840	25.78	1,177.99	571,000	24.18	1018.30
---	11/17/2009 ⁵	All Wells	2361	231	48.9	453,479	19.20	1,197.19	381,000	16.13	1034.43
11/17/2009	12/17/2009 ⁵	All Wells	2960	599	48.9	12,510	1.37	1,198.56	6,790	0.75	1035.17
12/17/2009	1/14/2010 ⁵	All Wells	3568	608	48.9	11,403,200	1270.88	2,469.45	8,550,000	952.89	1988.07
1/14/2010	2/22/2010 ⁶	All Wells	4161	593	69.4	2,364,821	364.82	2,834.27	1,720,000	265.34	2253.41
2/22/2010	3/25/2010 ⁷	All Wells	4868	707	69.4	331,284	60.93	2,895.20	215,000	39.54	2292.96
3/25/2010	4/16/2010	All Wells	5308	440	77.9	438,730	56.37	2,951.57	282,000	36.23	2329.19
4/16/2010	5/12/2010	All Wells	5908	600	86.9	50,553	9.88	2,961.45	27,900	5.45	2334.64
5/12/2010	6/17/2010	All Wells	6768	860	55.6	1,032,070	184.99	3,146.44	689,000	123.50	2458.14
6/17/2010	7/26/2010	All Wells	7671	903	75.6	493,213	126.21	3,272.65	489,000	125.14	2583.28
7/26/2010	9/27/2010 ⁸	All Wells	8222	551	86.8	256,450	45.98	3,318.63	245,150	43.95	2627.23
9/27/2010	10/18/2010	All Wells	8662	440	77.4	19,686	2.51	3,321.14	1,300	0.17	2627.39
10/18/2010	12/22/2010	All Wells	9378	716	94.1	46,334	11.70	3,332.84	2,680	0.68	2628.07
12/22/2010	1/20/2011	All Wells	10034	656	88.0	61,844	13.38	3,346.23	5,040	1.09	2629.16
1/20/2011	2/28/2011	All Wells	10969	935	83.1	21,690	6.32	3,352.55	4,590	1.34	2630.50
2/28/2011	3/23/2011	All Wells	11277	308	64.8	56,955	4.26	3,356.80	7,340	0.55	2631.05
3/23/2011	4/22/2011	All Wells	11995	718	65.8	29,665	5.25	3,362.05	6,840	1.21	2632.26
4/22/2011	5/19/2011	All Wells	12645	650	61.3	25,270	3.77	3,365.82	6,270	0.94	2633.19
5/19/2011	6/16/2011	All Wells	13314	669	56.4	8,991	1.27	3,367.10	668	0.09	2633.29
6/16/2011	7/25/2011	All Wells	14169	855	59.5	8,866	1.69	3,368.79	308	0.06	2633.35
7/25/2011	8/28/2011	All Wells	14962	793	68.7	8,324	1.70	3,370.49	0	0.00	2633.35
8/28/2011	9/29/2011	DPE-1, 2, 3, & 4	15722	760	59.9	106,710	18.21	3,388.70	3,420	0.58	2633.93
9/29/2011	10/27/2011	DPE-1, 2, 3, & 4	16013	291	52.3	11,328	0.65	3,389.34	180	0.01	2633.94

Notes:

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

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-1,2,3 & 4	DPE-EXHAUST 1214 DPE-1,2,3 & 4	DPE-EXHAUST 0260 All DPE Wells	DPE-EXHAUST 1571 All DPE Wells	DPE EXHAUST 0727 All DPE Wells	DPE EXHAUST 0416 All DPE Wells
Wells Operating						
Sample Collection Method	6-hr Composite	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	5/19/2011
1,1,1-Trichloroethane	<14	<33.9	<41.4	<39.6	<33.9	<280
1,1,1,2-Tetrachloroethane	<17	<21.5	<26.2	<25.1	<21.5	<178
1,1,2-Trichloroethane	<14	<16.9	<20.7	<19.8	<16.9	<140
1,1,2-Trichlorotrifluoroethane	11,000	103,000	8,150	8,250	8,050	19,000
1,1-Dichloroethane	<10	<25.3	<30.8	<29.5	<25.3	<209
1,1-Dichloroethene	<10	<24.9	<30.5	<29.2	<24.9	<206
1,2,4-Trichlorobenzene	<18	<30.5	<37.2	<35.6	<30.5	<252
1,2,4-Trimethylbenzene	<4.9	50.5	<37.6	<36.0	<30.8	<254
1,2-Dibromoethane (EDB)	<19	<49.3	<60.2	<57.6	<49.3	<407
1,2-Dichlorobenzene	<15	<37.0	<45.1	<43.2	<37.0	<305
1,2-Dichloroethane	<10	<12.6	<15.4	<14.8	<12.6	<104
1,2-Dichloropropane	<12	<29.0	<35.3	<33.8	<29.0	<239
1,3,5-Trimethylbenzene	<4.9	<30.8	<37.6	<36.0	<30.8	<254
1,3-Butadiene	<5.5	<13.9	<16.9	<16.2	<13.9	<114
1,3-Dichlorobenzene	<15	<37.0	<45.1	<43.2	<37.0	<305
1,4-Dichlorobenzene	<15	<37.0	<45.1	<43.2	<37.0	<305
2-Butanone (MEK)	11	80.1	<22.6	27.1	<18.5	<153
2-Hexanone	<10	<25.6	<31.2	<29.9	<25.6	<211
2-Propanol	16	<77.0	<94.0	<90.0	<77.0	<636
4-Ethyltoluene	<12	<77.0	<94.0	<90.0	<77.0	<636
4-Methyl-2-pentanone (MIBK)	<10	<25.6	<31.2	<29.9	<25.6	<211
Acetone	25	58.3	53.1	83.1	72.5	<122
Benzene	<3.2	<10.0	<12.2	<11.7	<10.0	<82.7
Benzyl chloride	<13	<32.3	<39.5	<37.8	<32.3	<267
Bromodichloromethane	<17	<43.1	<52.6	<50.4	<43.1	<356
Bromoform	<26	<64.7	<79.0	<75.6	<64.7	<534
Bromomethane	<9.5	<24.3	<29.7	<28.4	<24.3	<201
Carbon disulfide	<8.0	<19.4	<23.7	<22.7	<19.4	<160
Carbon tetrachloride	<16	<19.7	<24.1	<23.0	<19.7	<163
Chlorobenzene	<12	<29.0	<35.3	<33.8	<29.0	<239
Chloroethane	<6.5	<16.6	<20.3	<19.4	<16.6	<137
Chloroform	<12	<30.5	<37.2	<35.6	<30.5	<252
Chloromethane	<5.0	<12.9	<15.8	<15.1	<12.9	<107
cis-1,2-Dichloroethene	<10	49.1	<30.5	<29.2	<24.9	<206
cis-1,3-Dichloropropene	<12	<28.3	<34.6	<33.1	<28.3	<234
Cyclohexane	<8.5	<20.9	<25.6	<24.5	<20.9	<173
Dibromochloromethane	<22	<52.4	<63.9	<61.2	<52.4	<432
Dichlorodifluoromethane	<12	<30.8	<37.6	<36.0	<30.8	<254
Dichlorotetrafluoroethane	<18	<43.1	<52.6	<50.4	<43.1	<356
Ethanol	81	<58.5	121	198	201	<483
Ethyl acetate	<9.0	<22.5	<27.4	<26.3	<22.5	<186
Ethylbenzene	<4.4	<27.1	<33.1	<31.7	<27.1	<224
Hexachloro-1,3-butadiene	<26	<67.8	<82.7	<79.2	<67.8	<560
m&p-Xylene	<8.5	<54.2	<66.2	<63.4	<54.2	<448
Methylene Chloride	15	<21.9	<26.7	<25.6	<21.9	<181
Methyl-tert-butyl ether	<9.0	<22.5	<27.4	<26.3	<22.5	<186
Naphthalene	<13	<83.2	<102	<97.2	<83.2	<687
n-Heptane	<10	<25.6	<31.2	<29.9	<25.6	<211
n-Hexane	<9.0	<22.2	<27.1	<25.9	<22.2	<183
o-Xylene	<4.4	<27.1	<33.1	<31.7	<27.1	<224
Propylene	<4.3	<10.8	<13.2	<12.6	<10.8	<89.0
Styrene	<10	<26.8	<32.7	<31.3	<26.8	<221
Tetrachloroethene	180	3420	<25.9	308	668	6,270
Tetrahydrofuran	<7.5	<18.5	<22.6	<21.6	<18.5	<153
Toluene	<3.8	29.6	<29.0	<27.7	<23.7	<196
trans-1,2-Dichloroethene	<10	<24.9	<30.5	<29.2	<24.9	<206
trans-1,3-Dichloropropene	<12	<28.3	<34.6	<33.1	<28.3	<234
Trichloroethene	<14	22.2	<20.7	<19.8	<16.9	<140
Trichlorofluoromethane	<14	<33.9	<41.4	<39.6	<33.9	<280
Vinyl acetate	<9.0	<21.9	<26.7	<25.6	<21.9	<181
Vinyl chloride	<6.5	<8.0	<9.8	<9.4	<8.0	<66.1
TOTAL VOCs	11,328	106,710	8,324	8,866	8,991	25,270

1. Flow Congroller 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 0514	DPE EXHAUST 1186	DPE EXHAUST 0798	DPE EXHAUST 1513	DPE EXHAUST 0224	DPE EXHAUST 0965
Wells Operating	All DPE Wells	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	6-hr Composite
Collected Date	4/22/2011	3/23/2011	2/28/2011	1/20/2011	12/23/2010	10/18/2010
1,1,1-Trichloroethane	<36.5	<39.6	<140	20.8	45.6	<146
1,1,2,2-Tetrachloroethane	<46.5	<50.4	<88.8	<2.2	<46.5	<186
1,1,2-Trichloroethane	<36.5	<39.6	<70.0	<1.7	<36.5	<146
1,1,2-Trichlorotrifluoroethane	22,600	49,100	17,100	56,200	42,700	16,300
1,1-Dichloroethane	<27.2	<29.5	<104	<1.3	<27.2	<109
1,1-Dichloroethene	<26.9	<29.2	<103	<1.3	<26.9	<108
1,2,4-Trichlorobenzene	<32.9	<35.6	<126	<1.6	<32.9	<131
1,2,4-Trimethylbenzene	<33.2	<36.0	<127	3.3	<33.2	153
1,2-Dibromoethane (EDB)	<53.1	<57.6	<204	<2.5	<53.1	<212
1,2-Dichlorobenzene	<39.8	<43.2	<153	<1.9	<39.8	<159
1,2-Dichloroethane	<27.2	<29.5	<52.2	<1.3	<27.2	<109
1,2-Dichloropropane	<31.2	<33.8	<120	<1.5	<31.2	<125
1,3,5-Trimethylbenzene	<33.2	<36.0	<127	<1.6	<33.2	<133
1,3-Butadiene	<14.9	<16.2	<57.2	<0.72	<14.9	<59.8
1,3-Dichlorobenzene	<39.8	<43.2	<153	<1.9	<39.8	<159
1,4-Dichlorobenzene	<39.8	<43.2	<153	<1.9	<39.8	<159
2-Butanone (MEK)	<19.9	<21.6	<76.3	41.4	26.9	1,120
2-Hexanone	<27.6	<29.9	<106	<1.3	<27.6	<110
2-Propanol	<83.0	<90.0	<318	21.9	<83.0	484
4-Ethyltoluene	<83.0	<90.0	<318	<4.0	<83.0	<332
4-Methyl-2-pentanone (MIBK)	<27.6	<29.9	<106	8.3	<27.6	<110
Acetone	88.4	25.4	<61.1	29.0	78.0	227
Benzene	<21.6	<23.4	<41.3	<1.0	<21.6	<86.3
Benzyl chloride	<34.9	<37.8	<134	<1.7	<34.9	<139
Bromodichloromethane	<46.5	<50.4	<178	<2.2	<46.5	<186
Bromoform	<69.7	<75.6	<267	<3.3	<69.7	<279
Bromomethane	<26.2	<28.4	<100	<1.3	<26.2	<105
Carbon disulfide	<20.9	<22.7	<80.1	<1.0	<20.9	<83.7
Carbon tetrachloride	<43.2	<46.8	<81.4	<2.1	<43.2	<173
Chlorobenzene	<31.2	<33.8	<120	<1.5	<31.2	<125
Chloroethane	<17.9	<19.4	<68.7	<0.86	<17.9	<71.7
Chloroform	<32.9	<35.6	<126	4.9	<32.9	<131
Chloromethane	<13.9	<15.1	<53.4	<0.67	<13.9	<55.8
cis-1,2-Dichloroethene	<26.9	<29.2	<103	36.3	77.3	<108
cis-1,3-Dichloropropene	<30.5	<33.1	<117	<1.5	<30.5	<122
Cyclohexane	<22.6	<24.5	<86.5	<1.1	<22.6	<90.3
Dibromochloromethane	<56.4	<61.2	<216	<2.7	<56.4	<226
Dichlorodifluoromethane	<33.2	<36.0	<127	<1.6	<33.2	<133
Dichlorotetrafluoroethane	<46.5	<50.4	<178	<2.2	<46.5	<186
Ethanol	137	139	<242	286	726	<252
Ethyl acetate	<24.2	<26.3	<92.9	3.4	<24.2	<96.9
Ethylbenzene	<29.2	<31.7	<112	2.0	<29.2	<117
Hexachloro-1,3-butadiene	<73.0	<79.2	<280	<3.5	<73.0	<292
m&p-Xylene	<58.4	<63.4	<224	6.9	<58.4	<234
Methylene Chloride	<23.6	310	<90.3	101	<23.6	<94.3
Methyl-tert-butyl ether	<24.2	<26.3	<92.9	<1.2	<24.2	<96.9
Naphthalene	<89.6	<97.2	<343	<4.3	<89.6	<359
n-Heptane	<27.6	<29.9	<106	<1.3	<27.6	<110
n-Hexane	<23.9	40.9	<91.6	<1.1	<23.9	<95.6
o-Xylene	<29.2	<31.7	<112	5.8	<29.2	<117
Propylene	<11.6	<12.6	<44.5	<0.56	<11.6	<46.5
Styrene	<28.9	<31.3	<111	<1.4	<28.9	<116
Tetrachloroethene	6,840	7,340	4,590	5,040	2,680	1,300
Tetrahydrofuran	<19.9	<21.6	<76.3	6.3	<19.9	<79.7
Toluene	<25.6	<27.7	<97.9	12.3	<25.6	102
trans-1,2-Dichloroethene	<26.9	<29.2	<103	<1.3	<26.9	<108
trans-1,3-Dichloropropene	<30.5	<33.1	<117	<1.5	<30.5	<122
Trichloroethene	<36.5	<39.6	<70.0	14.8	<36.5	<146
Trichlorofluoromethane	<36.5	<39.6	<140	<1.7	<36.5	<146
Vinyl acetate	<23.6	<25.6	<90.3	<1.1	<23.6	<94.3
Vinyl chloride	<17.3	<18.7	<33.1	<0.83	<17.3	<69.1
TOTAL VOCs	29,665	56,955	21,690	61,844	46,334	19,686

1. Flow Congroller 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 0096	DPE EXHAUST 764	DPE EXHAUST 1248	DPE EXHAUST 764	DPE EXHAUST 726	DPE EXHAUST 1316
Wells Operating	All DPE Wells	All DPE Wells	All DPE Wells	All DPE Wells	All DPE Wells	All DPE Wells
Sample Collection Method	1/2-hr Composite ¹	6-hr Composite	6-hr Composite	6-hr Composite	6-hr Composite	6-hr Composite
Collected Date	9/27/2010	7/26/2010	6/17/2010	5/12/2010	4/16/2010	3/25/2010
1,1,1-Trichloroethane	<2.3	<79.2	<760	12.9	ND	30.7
1,1,1,2,2-Tetrachloroethane	<3.0	<101	<968	<2.7	ND	<2.5
1,1,2-Trichloroethane	<2.3	<79.2	<760	<2.1	ND	<2.0
1,1,2-Trichlorotrifluoroethane	9.2	3,720	342,000	21,900	153,000	115,000
1,1-Dichloroethane	<1.7	<59.0	<567	<1.6	ND	<1.5
1,1-Dichloroethene	<1.7	<58.3	<560	<1.6	ND	3.0
1,2,4-Trichlorobenzene	<2.1	<71.3	<684	<1.9	ND	<1.8
1,2,4-Trimethylbenzene	<5.3	<180	<1730	<4.8	ND	12.8
1,2-Dibromoethane (EDB)	<3.4	<115	<1110	<3.1	ND	<2.9
1,2-Dichlorobenzene	<2.6	<86.4	<829	5.5	ND	<2.2
1,2-Dichloroethane	<1.7	<59.0	<567	<1.6	ND	<1.5
1,2-Dichloropropane	<2.0	<67.7	<650	2.5	ND	<1.7
1,3,5-Trimethylbenzene	<5.3	<180	<1730	<4.8	ND	<4.5
1,3-Butadiene	<0.96	<32.4	<311	<0.87	ND	<0.81
1,3-Dichlorobenzene	<2.6	<86.4	<829	<2.3	ND	<2.2
1,4-Dichlorobenzene	<2.6	<86.4	<829	3.7	ND	<2.2
2-Butanone (MEK)	12.1	<43.2	<415	18.0	ND	44.2
2-Hexanone	<1.8	<59.8	<574	<1.6	ND	<1.5
2-Propanol	9.6	<180	<1730	7.9	ND	19.0
4-Ethyltoluene	<5.3	<180	<1730	<4.8	ND	<4.5
4-Methyl-2-pentanone (MIBK)	<1.8	<59.8	<574	<1.6	ND	<1.5
Acetone	53.9	74.8	<332	509	ND	163
Benzene	<1.4	<46.8	<449	<1.3	ND	<1.2
Benzyl chloride	<2.2	<1210	<726	<2.0	ND	<1.9
Bromodichloromethane	<3.0	<101	<968	<2.7	ND	<2.5
Bromoform	<4.5	<151	<1450	<4.1	ND	<3.8
Bromomethane	<1.7	<56.9	<546	<1.5	ND	<1.4
Carbon disulfide	<1.3	<45.4	<435	7.7	ND	1.3
Carbon tetrachloride	<2.8	<93.6	<899	<2.5	ND	<2.3
Chlorobenzene	<2.0	<67.7	<650	3.1	ND	<1.7
Chloroethane	<1.2	<38.9	<373	<1.0	ND	<0.97
Chloroform	<2.1	<71.3	<684	4.9	ND	11.3
Chloromethane	1.2	<30.2	<290	9.6	ND	<0.76
cis-1,2-Dichloroethene	<1.7	272	1,070	33.6	ND	80.2
cis-1,3-Dichloropropene	<2.0	<66.2	<636	<1.8	ND	<1.7
Cyclohexane	<1.4	<49.0	<470	3.7	ND	2.2
Dibromochloromethane	<3.6	<122	<1180	<3.3	ND	<3.1
Dichlorodifluoromethane	2.6	<72.0	<691	4.1	ND	11.0
Dichlorotetrafluoroethane	<3.0	<101	<968	<2.7	ND	<2.5
Ethanol	48.3	<2190	<1310	67.3	ND	26.1
Ethyl acetate	<1.6	<52.6	<505	<1.4	ND	<1.3
Ethylbenzene	<1.9	<63.4	<608	<1.7	ND	118
Hexachloro-1,3-butadiene	<4.7	<158	<1520	<4.2	ND	<4.0
m&p-Xylene	<3.7	<127	<1220	5.1	ND	456
Methylene Chloride	294	<51.1	<491	<1.4	ND	<1.3
Methyl-tert-butyl ether	<1.6	<52.6	<505	<1.4	ND	<1.3
Naphthalene	<5.8	<194	<1870	<5.2	ND	<4.9
n-Heptane	<1.8	<59.8	<574	2.0	ND	2.7
n-Hexane	45.9	<51.8	<498	<1.4	ND	4.7
o-Xylene	<1.9	<63.4	<608	1.8	ND	159
Propylene	1.3	<25.2	<242	<0.68	ND	<0.63
Styrene	<1.9	<62.6	<601	<1.7	ND	<1.6
Tetrachloroethene	6.5	489,000	689,000	27,900	282,000	215,000
Tetrahydrofuran	<1.3	45.3	<415	15.0	ND	58.0
Toluene	21.2	<55.4	<532	8.0	ND	28.4
trans-1,2-Dichloroethene	<1.7	<58.3	<560	<1.6	ND	<1.5
trans-1,3-Dichloropropene	<2.0	<66.2	<636	<1.8	ND	<1.7
Trichloroethene	42.3	101	<760	24.5	3,730	43.7
Trichlorofluoromethane	<2.3	<79.2	<760	<2.1	ND	<2.0
Vinyl acetate	<1.5	<51.1	<491	3.0	ND	8.9
Vinyl chloride	<1.1	<37.4	<359	<1.0	ND	<0.94
TOTAL VOCs	548	493,213	1,032,070	50,553	438,730	331,284

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 1037	DPE OUTLET 1042	DPE-OUTLET 0903	DPE-OUTLET 1254	DPE-EFFLUENT 519	DPE-EFFLUENT 253
Wells Operating	All DPE Wells	All DPE Wells	All DPE Wells	All DPE Wells	All DPE Wells	DPE-1
Sample Collection Method	6-hr Composite	6-hr Composite	6-hr Composite	6-hr Composite	6-hr Composite	Grab
Collected Date	2/22/2010	1/14/2010	12/17/2009	11/17/2009	10/16/2009	10/15/2009
1,1,1-Trichloroethane	61	ND	23.9	ND	81.7	4.2
1,1,2,2-Tetrachloroethane	ND	ND	ND	ND	<2.2	<2.1
1,1,2-Trichloroethane	ND	ND	ND	ND	<1.7	<1.6
1,1,2-Trichlorotrifluoroethane	644,000	2,720,000	4,440	72,100	172	97,900
1,1-Dichloroethane	ND	ND	ND	ND	<1.3	<1.2
1,1-Dichloroethene	7.66	ND	ND	ND	13.9	<1.2
1,2,4-Trichlorobenzene	ND	ND	ND	ND	<1.5	<1.5
1,2,4-Trimethylbenzene	ND	ND	ND	ND	<3.8	<3.7
1,2-Dibromoethane (EDB)	ND	ND	ND	ND	<2.5	<2.4
1,2-Dichlorobenzene	ND	ND	ND	ND	<1.8	<1.8
1,2-Dichloroethane	ND	ND	ND	ND	<1.3	<1.2
1,2-Dichloropropane	7.05	ND	ND	ND	<1.4	<1.4
1,3,5-Trimethylbenzene	ND	ND	ND	ND	<3.8	<3.7
1,3-Butadiene	ND	ND	ND	ND	<0.69	<0.67
1,3-Dichlorobenzene	ND	ND	ND	ND	<1.8	<1.8
1,4-Dichlorobenzene	ND	ND	ND	ND	<1.8	<1.8
2-Butanone (MEK)	12.9	ND	ND	ND	12.2	<0.89
2-Hexanone	ND	ND	ND	ND	<1.3	<1.2
2-Propanol	NA	NA	NA	NA	4.9	<3.7
4-Ethyltoluene	ND	ND	ND	ND	<3.8	<3.7
4-Methyl-2-pentanone (MIBK)	ND	ND	ND	ND	<1.3	<1.2
Acetone	84.5	76,800	126	116	37,000	501
Benzene	ND	ND	16.2	ND	1.1	1.5
Benzyl chloride	NA	NA	NA	NA	NA	NA
Bromodichloromethane	ND	ND	ND	ND	<2.2	<2.1
Bromoform	ND	ND	ND	ND	<3.2	<3.1
Bromomethane	ND	ND	ND	ND	<1.2	<1.2
Carbon disulfide	ND	ND	ND	ND	<0.97	<0.93
Carbon tetrachloride	ND	ND	ND	ND	<2.0	<1.9
Chlorobenzene	ND	ND	ND	ND	<1.4	<1.4
Chloroethane	ND	ND	ND	ND	<0.83	<0.80
Chloroform	15.4	ND	ND	ND	25.8	<1.5
Chloromethane	ND	ND	ND	ND	<0.65	<0.62
cis-1,2-Dichloroethene	198	ND	47.2	118	257	21.5
cis-1,3-Dichloropropene	ND	ND	ND	ND	<1.4	<1.4
Cyclohexane	14.3	ND	766	ND	<1.0	<1.0
Dibromochloromethane	ND	ND	ND	ND	<2.6	<2.5
Dichlorodifluoromethane	ND	ND	ND	ND	<1.5	2.8
Dichlorotetrafluoroethane	ND	ND	ND	ND	<2.2	<2.1
Ethanol	NA	NA	NA	NA	8.9	8.4
Ethyl acetate	ND	ND	ND	ND	<1.1	<1.1
Ethylbenzene	ND	ND	ND	ND	7.9	<1.3
Hexachloro-1,3-butadiene	ND	ND	ND	ND	<3.4	<3.3
m&p-Xylene	ND	ND	ND	ND	25.0	2.6
Methylene Chloride	ND	ND	270	ND	<1.1	276
Methyl-tert-butyl ether	ND	ND	ND	ND	<1.1	<1.1
Naphthalene	NA	NA	NA	NA	5.6	<4.0
n-Heptane	ND	ND	ND	ND	<1.3	<1.2
n-Hexane	135	ND	ND	ND	2.1	35.4
o-Xylene	ND	ND	ND	ND	7.5	<1.3
Propylene	ND	ND	ND	ND	<0.54	<0.52
Styrene	ND	ND	ND	ND	<1.3	<1.3
Tetrachloroethene	1,720,000	8,550,000	6,790	381,000	571,000	396,000
Tetrahydrofuran	45.6	56,400	ND	145	36.2	<0.89
Toluene	124	ND	9.58	ND	17.6	10.3
trans-1,2-Dichloroethene	ND	ND	ND	ND	<1.2	<1.2
trans-1,3-Dichloropropene	ND	ND	ND	ND	<1.4	<1.4
Trichloroethene	116	ND	21.3	ND	153	13.6
Trichlorofluoromethane	ND	ND	ND	ND	<1.7	1.7
Vinyl acetate	ND	ND	ND	ND	7.4	<1.1
Vinyl chloride	ND	ND	ND	ND	<0.80	<0.77
TOTAL VOCs	2,364,821	11,403,200	12,510	453,479	608,840	494,779

1. Flow Congroller 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 - EFFLUENT 0680	DPE EXHAUST 842
Wells Operating	DPE-1	DPE-1
Sample Collection Method	Grab	Grab
Collected Date	9/4/2009	4/9/2009
1,1,1-Trichloroethane	127	4,450
1,1,1,2,2-Tetrachloroethane	<2.1	<2480
1,1,2-Trichloroethane	<1.6	<1950
1,1,2-Trichlorotrifluoroethane	153,000	2,940,000
1,1-Dichloroethane	<1.2	<1450
1,1-Dichloroethene	15.0	<1440
1,2,4-Trichlorobenzene	<1.5	<1760
1,2,4-Trimethylbenzene	10.2	<4440
1,2-Dibromoethane (EDB)	<2.4	<2840
1,2-Dichlorobenzene	<1.8	<2130
1,2-Dichloroethane	<1.2	<1450
1,2-Dichloropropane	<1.4	<1670
1,3,5-Trimethylbenzene	5.0	<4440
1,3-Butadiene	<0.67	<798
1,3-Dichlorobenzene	6.0	<2130
1,4-Dichlorobenzene	8.6	<2130
2-Butanone (MEK)	15.8	<1060
2-Hexanone	<1.2	<1470
2-Propanol	<3.7	<4440
4-Ethyltoluene	6.0	<4440
4-Methyl-2-pentanone (MIBK)	<1.2	<1470
Acetone	7,510	<852
Benzene	2.3	<1150
Benzyl chloride	NA	NA
Bromodichloromethane	<2.1	<2480
Bromoform	<3.1	<3730
Bromomethane	<1.2	<1400
Carbon disulfide	5.9	<1120
Carbon tetrachloride	<1.9	<2310
Chlorobenzene	<1.4	<1670
Chloroethane	<0.80	<958
Chloroform	21.5	<1760
Chloromethane	<0.62	<745
cis-1,2-Dichloroethene	2,620	36,300
cis-1,3-Dichloropropene	<1.4	<1630
Cyclohexane	3.5	<1210
Dibromochloromethane	<2.5	<3020
Dichlorodifluoromethane	<1.5	2,230
Dichlorotetrafluoroethane	<2.1	3,400
Ethanol	5.7	<3370
Ethyl acetate	<1.1	<1300
Ethylbenzene	<1.3	<1560
Hexachloro-1,3-butadiene	<3.3	<3900
m&p-Xylene	14.2	<3120
Methylene Chloride	<1.1	<1260
Methyl-tert-butyl ether	<1.1	<1300
Naphthalene	4.2	10,100
n-Heptane	2.6	<1470
n-Hexane	3.4	<1280
o-Xylene	4.8	<1560
Propylene	<0.52	<621
Styrene	<1.3	<1540
Tetrachloroethane	3,630,000	11,600,000
Tetrahydrofuran	31.1	<1060
Toluene	14.4	<1370
trans-1,2-Dichloroethene	4.2	<1440
trans-1,3-Dichloropropene	<1.4	<1630
Trichloroethene	1,640	17,400
Trichlorofluoromethane	2.2	<1950
Vinyl acetate	8.7	<1260
Vinyl chloride	<0.77	<923
TOTAL VOCs	3,795,077	14,603,780

1. Flow Congroller 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

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

Notes:

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

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	AS-Influent	AS-Effluent
Collected Date	10/27/2011	10/27/2011	9/29/2011	9/29/2011	8/28/2011	8/28/2011	7/25/2011	7/25/2011	6/16/2011	6/16/2011
1,1,1,2-Tetrachloroethane	<1.0	<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	<1.0
1,1,2,2-Tetrachloroethane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1,2-Trichloroethane	<1.0	<1.0	<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	<1.0	<1.0
1,1-Dichloroethane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1-Dichloroethene	<1.0	<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	<1.0
1,2,3-Trichlorobenzene	<1.0	<1.0	<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	<4.0	<4.0
1,2,4-Trichlorobenzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2,4-Trimethylbenzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-Dibromo-3-chloropropane	<4.0	<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	<1.0
1,2-Dichlorobenzene	<1.0	<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	<1.0
1,2-Dichloropropane	<4.0	<4.0	<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	<1.0	<1.0
1,3-Dichlorobenzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,3-Dichloropropane	<1.0	<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	<1.0
2,2-Dichloropropane	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
2-Butanone (MEK)	<4.0	<4.0	<4.0	6.5	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
2-Chloroethylvinyl ether	<10.0	<10.0	<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	<1.0	<1.0
2-Hexanone	<4.0	<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	<5.0
4-Chlorotoluene	<1.0	<1.0	<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	<4.0	<4.0
Acetone	<25.0	<25.0	<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	<10.0	<10.0
Acrylonitrile	<10.0	<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	<4.0
Benzene	<1.0	<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	<1.0
Bromochloromethane	<1.0	<1.0	<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	<1.0	<1.0
Bromoform	<4.0	<4.0	<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	<4.0	<4.0
Carbon disulfide	<1.0	<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	<1.0	<1.0	<1.0	<1.0	<1.0
Chlorobenzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Chloroethane	<1.0	<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	<1.0
Chloromethane	<4.0	<4.0	<4.0	<4.0	<4.0	4.9	<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	<1.0	<1.0
cis-1,2-Dichloroethene	<1.0	<1.0	<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	<4.0	<4.0
Dibromochloromethane	<1.0	<1.0	<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	<4.0	<4.0
Dichlorodifluoromethane	<1.0	<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	<1.0
Diethyl ether (Ethyl ether)	<4.0	<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	<1.0
Hexachloro-1,3-butadiene	<5.0	<5.0	<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	<4.0	<4.0
Isopropylbenzene (Cumene)	<1.0	<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	<2.0
Methylene Chloride	<10.0	<10.0	<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	<1.0
Naphthalene	<4.0	<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	<1.0
n-Propylbenzene	<1.0	<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	<1.0
p-Isopropyltoluene	<1.0	<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	<1.0
Styrene	<1.0	<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	<1.0
Tetrachloroethene	40.3	<1.0	45.1	<1.0	50.7	<1.0	37.0	<1.0	42.8	<1.0
Tetrahydrofuran	<10.0	<10.0	<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	<1.0	<1.0
trans-1,2-Dichloroethene	<4.0	<4.0	<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	<4.0	<4.0
Trichloroethene	<1.0	<1.0	<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	<1.0	<1.0
Vinyl acetate	<10.0	<10.0	<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	<0.40	<0.40
Xylene (Total)	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0
Total VOC Concentration	40.3	0	45.1	6.5	50.7	4.9	37	0	42.8	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	AS-Influent	AS-Effluent	AS-Influent	AS-Effluent
Collected Date	5/19/2011	5/19/2011	4/22/2011	4/22/2011	3/23/2011	3/23/2011	3/1/2011	3/1/2011	1/20/2011	1/20/2011	12/23/2010	12/23/2010
1,1,1,2-Tetrachloroethane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<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	<1.0	<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	<1.0	<1.0	<1.0
1,1,2-Trichloroethane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1,2-Trichlorotrifluoroethane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	2.3	<1.0	<1.0	<1.0	3.0	<1.0
1,1-Dichloroethane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<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	<1.0	<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	<1.0	<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	<1.0	<1.0	<1.0
1,2,3-Trichloropropane	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<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	<1.0	<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	<1.0	<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	<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	<1.0	<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	<1.0	<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	<1.0	<1.0	<1.0
1,2-Dichloropropane	<4.0	<4.0	<4.0	<4.0	<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	<1.0	<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	<1.0	<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	<1.0	<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	<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	<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	<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	<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	<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	<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	<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	<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	<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	<25.0	<25.0	<10.0	11.1
Acrolein	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<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	<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	<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	<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	<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	<1.0	<1.0	<1.0
Bromodichloromethane	<1.0	<1.0	<1.0	<1.0	<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	<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	<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	<1.0	<1.0	<1.0
Carbon tetrachloride	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Chlorobenzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<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	<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	<1.0	<1.0	<1.0
Chloromethane	<4.0	<4.0	<4.0	<4.0	35.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Chloroprene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<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	<1.0	<1.0	1.8	<1.0
cis-1,3-Dichloropropene	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<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	<1.0	<1.0	<1.0
Dibromomethane	<4.0	<4.0	<4.0	<4.0	<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	<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	<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	<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	<1.0	<1.0	<1.0
Hexachloro-1,3-butadiene	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Iodomethane	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<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	<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	<2.0	<2.0	<2.0
Methylene Chloride	<4.0	<4.0	<4.0	<4.0	<4.0	6.8	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Methyl-tert-butyl ether	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<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	<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	<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	<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	<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	<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	<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	<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	<1.0	<1.0	<1.0
Tetrachloroethane	21.8	<1.0	41.3	<1.0	7.6	<1.0	127	<1.0	51.8	<1.0	168	<1.0
Tetrahydrofuran	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<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	<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	<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	<4.0	<4.0	<4.0	<4.0
Trichloroethane	<1.0	<1.0	<1.0	<1.0	<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	<1.0	<1.0	<1.0	<1.0
Vinyl acetate	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0
Vinyl chloride	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<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	<3.0	<3.0	<3.0
Total VOC Concentration	21.8	0	41.3	0	42.6	6.8	130.6	0	51.8	0	172.8	11.1

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

1: Initial sampling event to determine if groundwater treatment was necessary.
2: Increase in VOCs was from PVC glue and cement from construction of the DPE system and air stripper.
3: Increase in VOCs was from PVC glue and cement from installation of the secondary demister moisture separator.

TABLE 6
GROUNDWATER DISCHARGE ANALYTICAL RESULTS
(micrograms per liter)
MN Bio Business Center
221 1st Avenue SW
Rochester, MN

Sample ID	AS-Influent	AS-Effluent	AS-Influent	AS-Effluent	AS-Influent	AS-Effluent	AS-Influent	AS-Effluent	AS-Influent	AS-Effluent ²	AS-Influent	AS-Effluent ³
Collected Date	10/19/2010	10/19/2010	7/26/2010	7/26/2010	6/17/2010	6/17/2010	5/12/2010	5/12/2010	4/16/2010	4/16/2010	3/25/2010	3/25/2010
1,1,1,2-Tetrachloroethane	<1.0	<1.0	<1.0	<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	<1.0	<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	<1.0	<1.0	<1.0
1,1,2-Trichloroethane	<1.0	<1.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
1,1,2-Trichlorotrifluoroethane	1.9	<1.0	<1.0	<1.0	2.6	<1.0	2.5	<1.0	1.4	<1.0	1.0	<1.0
1,1-Dichloroethane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<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	<1.0	<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	<1.0	<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	<1.0	<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	<1.0	<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	<1.0	<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	<1.0	<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	<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	<1.0	<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	<1.0	<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	<1.0	<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	<1.0	<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	<1.0	<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	<1.0	<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	<1.0	<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	<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	<4.0	<4.0	<4.0	<4.0
2-Butanone (MEK)	4.5	5.6	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	4.9	4.9	7.5
2-Chloroethylvinyl ether	<10.0	<10.0	<10.0	<10.0	<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	<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	<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	<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	<1.0	<1.0	<1.0
4-Methyl-2-pentanone (MIBK)	<4.0	<4.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Acetone	<10.0	<10.0	<10.0	<10.0	<10.0	13.3	<10.0	<10.0	<10.0	29.3	11.2	29.8
Acrolein	<10.0	<10.0	<40.0	<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	<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	<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	<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	<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	<1.0	<1.0	<1.0
Bromodichloromethane	<1.0	<1.0	<4.0	<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	<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	<4.0	37.3	38.0
Carbon disulfide	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Carbon tetrachloride	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<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	<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	<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	<1.0	<1.0	<1.0
Chloromethane	<4.0	<4.0	<4.0	<4.0	7.2	8.7	<4.0	<4.0	10.7	491	380	644
Chloroprene	<1.0	<1.0	<1.0	<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	1.5	<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	<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	<1.0	<1.0	<1.0
Dibromomethane	<4.0	<4.0	<1.0	<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	<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	<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	<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	<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	<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	<4.0	17.3	18.9
Isopropylbenzene (Cumene)	<1.0	<1.0	<1.0	<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	<2.0	<2.0	3.4
Methylene Chloride	<4.0	<4.0	<4.0	<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	<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	<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	<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	<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	<1.0	<1.0	1.6
p-Isopropyltoluene	<1.0	<1.0	<1.0	<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	<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	<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	<1.0	<1.0	<1.0
Tetrachloroethene	204	<1.0	<1.0	40.6	108	2.4	63.4	<1.0	48.6	<1.0	55.5	<1.0
Tetrahydrofuran	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	20.3
Toluene	<1.0	<1.0	<1.0	<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	<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	<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	<1.0	<1.0	<1.0
Trichlorofluoromethane	<1.0	<1.0	<4.0	<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	<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	<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	<3.0	<3.0	4.9
Total VOC Concentration	210.4	5.6	0	40.6	119.3	15.7	65.9	0	60.7	525.2	507.2	763.5

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-IN Vial 2	AS-Effluent	AS-INFLUENT	AS-EFFLUENT	AS-Influent	AS-Effluent
Collected Date	2/22/2010	2/22/2010	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	<1.0	<1.0
1,1,1-Trichloroethane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<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	<1.0	<1.0
1,1,2-Trichloroethane	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
1,1,2-Trichlorotrifluoroethane	2.1	<1.0	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	<1.0	<1.0
1,1-Dichloroethene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1-Dichloropropene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2,3-Trichlorobenzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2,3-Trichloropropane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2,4-Trichlorobenzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2,4-Trimethylbenzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<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	<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	<1.0	<1.0
1,2-Dichlorobenzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-Dichloroethane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-Dichloropropane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,3,5-Trimethylbenzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,3-Dichlorobenzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,3-Dichloropropane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,4-Dichlorobenzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
2,2-Dichloropropane	<4.0	<4.0	<1.0	<1.0	<1.0	<1.0	<1.0	<4.0	<4.0	<4.0	<4.0
2-Butanone (MEK)	<4.0	<4.0	7.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	5.4	<4.0
2-Chloroethylvinyl ether	<10.0	<10.0	<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	<1.0	<1.0
2-Hexanone	<4.0	<4.0	<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	<5.0	<5.0
4-Chlorotoluene	<1.0	<1.0	<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	<5.0	<5.0
Acetone	<10.0	<10.0	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	<40.0	<40.0
Acrylonitrile	<10.0	<10.0	<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	<4.0	<4.0
Benzene	<1.0	<1.0	<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	<1.0	<1.0
Bromochloromethane	<1.0	<1.0	<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	<4.0	<4.0
Bromoform	<8.0	<8.0	<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	<4.0	<4.0
Carbon disulfide	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Carbon tetrachloride	<4.0	<4.0	<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	<1.0	<1.0
Chloroethane	<1.0	<1.0	<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	<1.0	<1.0
Chloromethane	<4.0	<4.0	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	<1.0	<1.0
cis-1,2-Dichloroethene	1.3	<1.0	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	<4.0	<4.0
Dibromochloromethane	<1.0	<1.0	<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	<1.0	<1.0
Dichlorodifluoromethane	<1.0	<1.0	<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	<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	<4.0	<4.0
Ethylbenzene	<1.0	<1.0	<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	<4.0	<4.0
Iodomethane	<4.0	<4.0	<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	<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	<2.0	<2.0
Methylene Chloride	<4.0	<4.0	<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	<1.0	<1.0
Naphthalene	<4.0	<4.0	<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	<1.0	<1.0
n-Propylbenzene	<1.0	<1.0	<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	<1.0	<1.0
p-Isopropyltoluene	<1.0	<1.0	<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	<1.0	<1.0
Styrene	<1.0	<1.0	<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	<1.0	<1.0
Tetrachloroethane	69.6	<1.0	157	<1.0	<1.0	<1.0	22.7	30.7	<1.0	214	<1.0
Tetrahydrofuran	<10.0	15.7	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	<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	<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	<4.0	<4.0
Trichloroethene	<1.0	<1.0	<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	<4.0	<4.0
Vinyl acetate	<20.0	<20.0	<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	<0.40	<0.40
Xylene (Total)	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0
Total VOC Concentration	73	15.7	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.

- Initial sampling event to determine if groundwater treatment was necessary.
- Increase in VOCs was from PVC glue and cement from construction of the DPE system and air stripper.
- 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
Tetrachloroethane	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-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

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	6/17/2010	991.50	16.28	975.22	DPE System on all wells
MW-15	8/18/2010	991.50	16.24	975.26	DPE System on all wells
MW-15	9/27/2010	991.50	13.68	977.82	DPE System on all wells
MW-15	11/18/2010	991.50	13.79	977.71	DPE System not operating
MW-15	12/22/2010	991.50	14.03	977.47	DPE System restarted
MW-15	1/6/2011	991.50	13.53	977.97	DPE System on all wells
MW-15	1/20/2011	991.50	13.55	977.95	DPE System on all wells
MW-15	2/28/2011	991.50	13.71	977.79	DPE System on all wells
MW-15	3/7/2011	991.50	14.01	977.49	DPE System on all wells
MW-15	3/18/2011	991.50	14.08	977.42	DPE System on all wells
MW-15	3/23/2011	991.50	12.79	978.71	DPE System on all wells
MW-15	4/22/2011	991.50	13.40	978.10	DPE System on all wells
MW-15	5/19/2011	991.50	13.38	978.12	DPE System on all wells
MW-15	6/16/2011	991.50	13.62	977.88	DPE System on all wells
MW-15	7/25/2011	991.50	13.08	978.42	DPE System on all wells
MW-15	8/28/2011	991.50	14.76	976.74	DPE System on all wells
MW-15	9/29/2011	991.50	15.28	976.22	DPE-1,2,3,4
MW-15	10/18/2011	991.50	13.79	977.71	DPE-1,2,3,4
MW-15	10/27/2011	991.50	15.56	975.94	DPE-1,2,3,4
MW-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

TABLE 7

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

Well ID	Date Measured	Top of Casing Elevation ^{1,2}	Depth to Groundwater (feet)	Groundwater Elevation ³	System Status
MW-17	12/3/2008	989.53	12.81	976.72	pre-system installation
MW-17	6/8/2009	989.53	13.69	975.84	pre-system startup
MW-17	7/9/2009	989.53	14.44	975.09	DPE system on DPE-1
MW-17	7/9/2009	989.53	14.35	975.18	DPE system temporarily off
MW-17	9/4/2009	989.53	14.31	975.22	DPE system on
MW-17	9/4/2009	989.53	14.33	975.20	DPE system on after replacing inlet screen
MW-17	9/4/2009	989.53	14.39	975.14	DPE system on after replacing inlet filter
MW-17	10/15/2009	989.53	14.00	975.53	DPE system on DPE-1
MW-17	10/23/2009	989.53	13.13	976.40	DPE system off
MW-17	11/16/2009	989.53	12.76	976.77	DPE System on all wells
MW-17	12/17/2009	989.53	13.04	976.49	DPE System on all wells
MW-17	1/14/2010	989.53	13.22	976.31	DPE System on all wells
MW-17	2/22/2010	989.53	14.37	975.16	DPE System on all wells
MW-17	3/25/2010	989.53	12.78	976.75	DPE System on all wells
MW-17	4/16/2010	989.53	13.19	976.34	DPE System on all wells
MW-17	5/12/2010	989.53	13.84	975.69	DPE System on all wells
MW-17	6/17/2010	989.53	14.13	975.40	DPE System on all wells
MW-17	8/18/2010	989.53	15.08	974.45	DPE System on all wells
MW-17	9/27/2010	989.53	12.68	976.85	DPE System on all wells
MW-17	11/18/2010	989.53	12.68	976.85	DPE System not operating
MW-17	12/22/2010	989.53	12.50	977.03	DPE System restarted
MW-17	1/6/2011	989.53	12.17	977.36	DPE System on all wells
MW-17	1/20/2011	989.53	12.25	977.28	DPE System on all wells
MW-17	2/28/2011	989.53	12.20	977.33	DPE System on all wells
MW-17	3/7/2011	989.53	12.41	977.12	DPE System on all wells
MW-17	3/18/2011	989.53	12.44	977.09	DPE System on all wells
MW-17	3/23/2011	989.53	11.41	978.12	DPE System on all wells
MW-17	4/22/2011	989.53	11.64	977.89	DPE System on all wells
MW-17	5/19/2011	989.53	11.96	977.57	DPE System on all wells
MW-17	6/16/2011	989.53	12.21	977.32	DPE System on all wells
MW-17	7/25/2011	989.53	12.02	977.51	DPE System on all wells
MW-17	8/28/2011	989.53	13.41	976.12	DPE System on all wells
MW-17	9/29/2011	989.53	13.04	976.49	DPE-1,2,3,4
MW-17	10/18/2011	989.53	12.66	976.87	DPE-1,2,3,4
MW-17	10/27/2011	989.53	13.08	976.45	DPE-1,2,3,4
MW-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

TABLE 7

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

Well ID	Date Measured	Top of Casing Elevation ^{1,2}	Depth to Groundwater (feet)	Groundwater Elevation ³	System Status
MW-18	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-19	12/3/2008	991.13	12.45	978.68	pre-system installation
MW-19	6/8/2009	991.13	13.40	977.73	pre-system startup
MW-19	7/9/2009	991.13	14.75	976.38	DPE system on DPE-1
MW-19	7/9/2009	991.13	14.58	976.55	DPE system temporarily off
MW-19	9/4/2009	991.13	14.68	976.45	DPE system on
MW-19	9/4/2009	991.13	14.61	976.52	DPE system on after replacing inlet screen
MW-19	9/4/2009	991.13	14.66	976.47	DPE system on after replacing inlet filter
MW-19	10/15/2009	991.13	14.47	976.66	DPE system on DPE-1
MW-19	10/23/2009	991.13	13.28	977.85	DPE system off
MW-19	11/16/2009	991.13	12.85	978.28	DPE System on all wells
MW-19	12/17/2009	991.13	13.69	977.44	DPE System on all wells
MW-19	1/14/2010	991.13	13.78	977.35	DPE System on all wells
MW-19	2/22/2010	991.13	14.62	976.51	DPE System on all wells
MW-19	3/25/2010	991.13	13.81	977.32	DPE System on all wells
MW-19	4/16/2010	991.13	14.21	976.92	DPE System on all wells
MW-19	5/12/2010	991.13	14.84	976.29	DPE System on all wells
MW-19	6/17/2010	991.13	15.01	976.12	DPE System on all wells
MW-19	8/18/2010	991.13	15.71	975.42	DPE System on all wells
MW-19	9/27/2010	991.13	12.94	978.19	DPE System on all wells
MW-19	11/18/2010	991.13	13.26	977.87	DPE System not operating
MW-19	12/22/2010	991.13	13.69	977.44	DPE System restarted
MW-19	1/6/2011	991.13	13.06	978.07	DPE System on all wells
MW-19	1/20/2011	991.13	13.41	977.72	DPE System on all wells
MW-19	2/28/2011	991.13	13.92	977.21	DPE System on all wells
MW-19	3/7/2011	991.13	13.18	977.95	DPE System on all wells
MW-19	3/18/2011	991.13	13.56	977.57	DPE System on all wells
MW-19	3/23/2011	991.13	12.09	979.04	DPE System on all wells
MW-19	4/22/2011	991.13	12.42	978.71	DPE System on all wells
MW-19	5/19/2011	991.13	12.84	978.29	DPE System on all wells
MW-19	6/16/2011	991.13	13.05	978.08	DPE System on all wells
MW-19	7/25/2011	991.13	12.42	978.71	DPE System on all wells
MW-19	8/28/2011	991.13	14.29	976.84	DPE System on all wells
MW-19	9/29/2011	991.13	14.05	977.08	DPE-1,2,3,4
MW-19	10/18/2011	991.13	13.33	977.80	DPE-1,2,3,4
MW-19	10/27/2011	991.13	14.32	976.81	DPE-1,2,3,4

TABLE 7

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

Well ID	Date Measured	Top of Casing Elevation ^{1,2}	Depth to Groundwater (feet)	Groundwater Elevation ³	System Status
MW-20	12/3/2008	991.50	12.40	979.10	pre-system installation
MW-20	6/8/2009	991.50	11.93	979.57	pre-system startup
MW-20	7/9/2009	991.50	12.19	979.31	DPE system on DPE-1
MW-20	7/9/2009	991.50	12.24	979.26	DPE system temporarily off
MW-20	9/4/2009	991.50	12.53	978.97	DPE system on
MW-20	9/4/2009	991.50	12.47	979.03	DPE system on after replacing inlet screen
MW-20	9/4/2009	991.50	12.49	979.01	DPE system on after replacing inlet filter
MW-20	10/15/2009	991.50	12.16	979.34	DPE system on DPE-1
MW-20	10/23/2009	991.50	11.33	980.17	DPE system off
MW-20	11/16/2009	991.50	11.02	980.48	DPE System on all wells
MW-20	12/17/2009	991.50	12.31	979.19	DPE System on all wells
MW-20	1/14/2010	991.50	12.34	979.16	DPE System on all wells
MW-20	2/22/2010	991.50	12.78	978.72	DPE System on all wells
MW-20	3/25/2010	991.50	12.54	978.96	DPE System on all wells
MW-20	4/16/2010	991.50	12.76	978.74	DPE System on all wells
MW-20	5/12/2010	991.50	13.18	978.32	DPE System on all wells
MW-20	6/17/2010	991.50	12.99	978.51	DPE System on all wells
MW-20	8/18/2010	991.50	12.71	978.79	DPE System on all wells
MW-20	9/27/2010	991.50	10.17	981.33	DPE System on all wells
MW-20	11/18/2010	991.50	11.68	979.82	DPE System not operating
MW-20	12/22/2010	991.50	12.15	979.35	DPE System restarted
MW-20	1/6/2011	991.50	11.99	979.51	DPE System on all wells
MW-20	1/20/2011	991.50	12.45	979.05	DPE System on all wells
MW-20	2/28/2011	991.50	12.69	978.81	DPE System on all wells
MW-20	3/7/2011	991.50	12.26	979.24	DPE System on all wells
MW-20	3/18/2011	991.50	12.62	978.88	DPE System on all wells
MW-20	3/23/2011	991.50	11.19	980.31	DPE System on all wells
MW-20	4/22/2011	991.50	11.22	980.28	DPE System on all wells
MW-20	5/19/2011	991.50	11.26	980.24	DPE System on all wells
MW-20	6/16/2011	991.50	11.69	979.81	DPE System on all wells
MW-20	7/25/2011	991.50	10.13	981.37	DPE System on all wells
MW-20	8/28/2011	991.50	12.32	979.18	DPE System on all wells
MW-20	9/29/2011	991.50	12.48	979.02	DPE-1,2,3,4
MW-20	10/18/2011	991.50	12.31	979.19	DPE-1,2,3,4
MW-20	10/27/2011	991.50	12.98	978.52	DPE-1,2,3,4
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

TABLE 7

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

Well ID	Date Measured	Top of Casing Elevation ^{1,2}	Depth to Groundwater (feet)	Groundwater Elevation ³	System Status
DPE-1	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-2	12/3/2008	991.46	13.60	977.86	pre-system installation
DPE-2	6/8/2009	992.80	17.45	975.35	pre-system startup
DPE-2	7/9/2009	992.80	17.61	975.19	DPE system on DPE-1
DPE-2	7/9/2009	992.80	16.83	975.97	DPE system temporarily off
DPE-2	9/4/2009	992.80	17.18	975.62	DPE system on DPE-1
DPE-2	9/4/2009	992.80	17.26	975.54	DPE-1 on after replacing inlet screen
DPE-2	9/4/2009	992.80	17.54	975.26	DPE-1 on after replacing inlet filter
DPE-2	10/15/2009	992.80	16.96	975.84	DPE system on DPE-1
DPE-2	10/23/2009	992.80	15.53	977.27	DPE system off
DPE-2	11/16/2009	992.80	15.19	977.61	DPE System on all wells
DPE-2	12/17/2009	992.80	15.69	977.11	DPE System on all wells
DPE-2	1/14/2010	992.80	16.04	976.76	DPE System on all wells
DPE-2	2/22/2010	992.80	14.19	978.61	DPE System on all wells
DPE-2	3/25/2010	992.80	15.50	977.30	DPE System on all wells
DPE-2	4/16/2010	992.80	16.31	976.49	DPE System on all wells
DPE-2	5/12/2010	992.80	16.31	976.49	DPE System on all wells
DPE-2	6/17/2010	992.80	17.09	975.71	DPE System on all wells
DPE-2	8/18/2010	992.80	17.58	975.22	DPE System on all wells
DPE-2	9/27/2010	992.80	14.92	977.88	DPE System on all wells
DPE-2	11/18/2010	992.80	14.79	978.01	DPE System not operating
DPE-2	12/22/2010	992.80	15.72	977.08	DPE System restarted
DPE-2	1/6/2011	992.80	14.42	978.38	DPE System on all wells
DPE-2	1/20/2011	992.80	14.98	977.82	DPE System on all wells
DPE-2	2/28/2011	992.80	14.88	977.92	DPE System on all wells
DPE-2	3/7/2011	992.80	15.22	977.58	DPE System on all wells
DPE-2	3/18/2011	992.80	15.41	977.39	DPE System on all wells
DPE-2	3/23/2011	992.80	13.62	979.18	DPE System on all wells
DPE-2	4/22/2011	992.80	14.51	978.29	DPE System on all wells
DPE-2	5/19/2011	992.80	14.78	978.02	DPE System on all wells
DPE-2	6/16/2011	992.80	15.00	977.80	DPE System on all wells
DPE-2	7/25/2011	992.80	14.83	977.97	DPE System on all wells
DPE-2	8/28/2011	992.80	17.81	974.99	DPE System on all wells
DPE-2	9/29/2011	992.80	15.78	977.02	DPE-1,2,3,4
DPE-2	10/18/2011	992.80	14.78	978.02	DPE-1,2,3,4
DPE-2	10/27/2011	992.80	15.94	976.86	DPE-1,2,3,4

TABLE 7

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

Well ID	Date Measured	Top of Casing Elevation ^{1,2}	Depth to Groundwater (feet)	Groundwater Elevation ³	System Status
DPE-3	12/3/2008	991.50	10.30	981.20	pre-system installation
DPE-3	6/8/2009	992.48	13.64	978.84	pre-system startup
DPE-3	7/9/2009	992.48	13.98	978.50	DPE system on DPE-1
DPE-3	7/9/2009	992.48	14.06	978.42	DPE system temporarily off
DPE-3	9/4/2009	992.48	14.48	978.00	DPE system on DPE-1
DPE-3	9/4/2009	992.48	14.49	977.99	DPE-1 on after replacing inlet screen
DPE-3	9/4/2009	992.48	14.50	977.98	DPE-1 on after replacing inlet filter
DPE-3	10/15/2009	992.48	14.87	977.61	DPE system on DPE-1
DPE-3	10/23/2009	992.48	14.76	977.72	DPE system off
DPE-3	11/16/2009	992.48	14.59	977.89	DPE System on all wells
DPE-3	12/17/2009	992.48	15.28	977.20	DPE System on all wells
DPE-3	1/14/2010	992.48	16.52	975.96	DPE System on all wells
DPE-3	2/22/2010	992.48	15.29	977.19	DPE System on all wells
DPE-3	3/25/2010	992.48	15.68	976.80	DPE System on all wells
DPE-3	4/16/2010	992.48	15.80	976.68	DPE System on all wells
DPE-3	5/12/2010	992.48	16.26	976.22	DPE System on all wells
DPE-3	6/17/2010	992.48	16.43	976.05	DPE System on all wells
DPE-3	8/18/2010	992.48	17.20	975.28	DPE System on all wells
DPE-3	9/27/2010	992.48	14.29	978.19	DPE System on all wells
DPE-3	11/18/2010	992.48	14.62	977.86	DPE System not operating
DPE-3	12/22/2010	992.48	15.62	976.86	DPE System restarted
DPE-3	1/6/2011	992.48	14.50	977.98	DPE System on all wells
DPE-3	1/20/2011	992.48	14.99	977.49	DPE System on all wells
DPE-3	2/28/2011	992.48	15.22	977.26	DPE System on all wells
DPE-3	3/7/2011	992.48	15.20	977.28	DPE System on all wells
DPE-3	3/18/2011	992.48	15.57	976.91	DPE System on all wells
DPE-3	3/23/2011	992.48	13.88	978.60	DPE System on all wells
DPE-3	4/22/2011	992.48	14.51	977.97	DPE System on all wells
DPE-3	5/19/2011	992.48	14.96	977.52	DPE System on all wells
DPE-3	6/16/2011	992.48	15.83	976.65	DPE System on all wells
DPE-3	7/25/2011	992.48	14.11	978.37	DPE System on all wells
DPE-3	8/28/2011	992.48	15.88	976.60	DPE System on all wells
DPE-3	9/29/2011	992.48	16.56	975.92	DPE-1,2,3,4
DPE-3	10/18/2011	992.48	14.89	977.59	DPE-1,2,3,4
DPE-3	10/27/2011	992.48	16.82	975.66	DPE-1,2,3,4
DPE-4	12/3/2008	991.39	14.20	977.19	pre-system installation
DPE-4	6/8/2009	992.40	15.30	977.10	pre-system startup
DPE-4	7/9/2009	992.40	16.95	975.45	DPE system on DPE-1
DPE-4	7/9/2009	992.40	16.08	976.32	DPE system temporarily off
DPE-4	9/4/2009	992.40	15.94	976.46	DPE system on DPE-1
DPE-4	9/4/2009	992.40	15.91	976.49	DPE-1 on after replacing inlet screen
DPE-4	9/4/2009	992.40	15.99	976.41	DPE-1 on after replacing inlet filter
DPE-4	10/15/2009	992.40	15.83	976.57	DPE system on DPE-1
DPE-4	10/23/2009	992.40	14.81	977.59	DPE system off
DPE-4	11/16/2009	992.40	14.48	977.92	DPE System on all wells
DPE-4	12/17/2009	992.40	15.44	976.96	DPE System on all wells
DPE-4	1/14/2010	992.40	16.08	976.32	DPE System on all wells
DPE-4	2/22/2010	992.40	16.08	976.32	DPE System on all wells
DPE-4	3/25/2010	992.40	16.22	976.18	DPE System on all wells
DPE-4	4/16/2010	992.40	16.21	976.19	DPE System on all wells
DPE-4	5/12/2010	992.40	16.86	975.54	DPE System on all wells
DPE-4	6/17/2010	992.40	16.83	975.57	DPE System on all wells
DPE-4	8/18/2010	992.40	16.74	975.66	DPE System on all wells
DPE-4	9/27/2010	992.40	14.74	977.66	DPE System on all wells
DPE-4	11/18/2010	992.40	14.93	977.47	DPE System not operating
DPE-4	12/22/2010	992.40	14.89	977.51	DPE System restarted

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	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-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-6	12/3/2008	991.44	12.93	978.51	pre-system installation
DPE-6	6/8/2009	992.40	16.19	976.21	pre-system startup
DPE-6	7/9/2009	992.40	16.54	975.86	DPE system on DPE-1

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	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-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

TABLE 7

GROUNDWATER ELEVATIONS
MN Bio Business Center
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Rochester, Minnesota

Well ID	Date Measured	Top of Casing Elevation ^{1,2}	Depth to Groundwater (feet)	Groundwater Elevation ³	System Status
DPE-7	3/7/2011	993.48	16.08	977.40	DPE System on all wells
DPE-7	3/18/2011	993.48	16.08	977.40	DPE System on all wells
DPE-7	3/23/2011	993.48	14.83	978.65	DPE System on all wells
DPE-7	4/22/2011	993.48	15.60	977.88	DPE System on all wells
DPE-7	5/19/2011	993.48	15.33	978.15	DPE System on all wells
DPE-7	6/16/2011	993.48	15.58	977.90	DPE System on all wells
DPE-7	7/25/2011	993.48	14.64	978.84	DPE System on all wells
DPE-7	8/28/2011	993.48	16.96	976.52	DPE System on all wells
DPE-7	9/29/2011	993.48	17.35	976.13	DPE-1,2,3,4
DPE-7	10/18/2011	993.48	16.25	977.23	DPE-1,2,3,4
DPE-7	10/27/2011	993.48	17.46	976.02	DPE-1,2,3,4
DPE-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
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

TABLE 7

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

Well ID	Date Measured	Top of Casing Elevation ^{1,2}	Depth to Groundwater (feet)	Groundwater Elevation ³	System Status
Elevator Draintile Sump	9/4/2009	990.20	6.29	983.91	DPE system on DPE-1
Elevator Draintile Sump	10/15/2009	990.20	6.18	984.02	DPE system on DPE-1
Elevator Draintile Sump	10/23/2009	990.20	6.08	984.12	DPE system off
Elevator Draintile Sump	11/16/2009	990.20	5.72	984.48	DPE System on all wells
Elevator Draintile Sump	12/17/2009	990.20	6.48	983.72	DPE System on all wells
Elevator Draintile Sump	1/14/2010	990.20	6.46	983.74	DPE System on all wells
Elevator Draintile Sump	2/22/2010	990.20	6.81	983.39	DPE System on all wells
Elevator Draintile Sump	3/25/2010	990.20	6.88	983.32	DPE System on all wells
Elevator Draintile Sump	4/16/2010	990.20	6.91	983.29	DPE System on all wells
Elevator Draintile Sump	5/12/2010	990.20	7.01	983.19	DPE System on all wells
Elevator Draintile Sump	6/17/2010	990.20	6.88	983.32	DPE System on all wells
Elevator Draintile Sump	8/18/2010	990.20	6.72	983.48	DPE System on all wells
Elevator Draintile Sump	9/27/2010	990.20	6.02	984.18	DPE System on all wells
Elevator Draintile Sump	11/18/2010	990.20	6.59	983.61	DPE System not operating
Elevator Draintile Sump	12/22/2010	990.20	6.48	983.72	DPE System restarted
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

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	3/7/2011	990.20	6.91	983.29	DPE System on all wells
Elevator Draintile Sump	3/18/2011	990.20	6.97	983.23	DPE System on all wells
Elevator Draintile Sump	3/23/2011	990.20	6.76	983.44	DPE System on all wells
Elevator Draintile Sump	4/22/2011	990.20	6.52	983.68	DPE System on all wells
Elevator Draintile Sump	5/19/2011	990.20	6.27	983.93	DPE System on all wells
Elevator Draintile Sump	6/16/2011	990.20	6.52	983.68	DPE System on all wells
Elevator Draintile Sump	7/25/2011	990.20	5.58	984.62	DPE System on all wells
Elevator Draintile Sump	8/28/2011	990.20	6.56	983.64	DPE System on all wells
Elevator Draintile Sump	9/29/2011	990.20	6.97	983.23	DPE-1,2,3,4
Elevator Draintile Sump	10/18/2011	990.20	6.68	983.52	DPE-1,2,3,4
Elevator Draintile Sump	10/27/2011	990.20	7.01	983.19	DPE-1,2,3,4

Notes:

NR: Not Recorded

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

TABLE 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	
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	
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	
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	

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	
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	
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	
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	

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	
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	
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	
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	-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
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	
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	
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	

TABLE 10

GROUNDWATER ANALYTICAL RESULTS (ug/L)

MN Bio Business Center

221 1st Avenue SW

Rochester, Minnesota

Sample ID	MDH Health Risk Limits 5/09	DPE-1 8/28/2011	DPE-1 5/19/2011	DPE-1 03/01/11	DPE-1 12/22/10	DPE-1 08/18/10	DPE-1 05/13/10	DPE-1 02/22/10	DPE-1 11/16/09	DPE-1 09/28/09	DPE-1 12/10/08	DPE-1 8/7/2008
1,1,1,2-Tetrachloroethane	70	<1.0	<1.0	<1.0	<5.0	<5.0	<1.0	<25.0	<25.0	<50.0	NA*	<250
1,1,1-Trichloroethane	9000	<1.0	<1.0	<1.0	<5.0	<5.0	<1.0	<25.0	<25.0	<50.0	NA*	<250
1,1,2,2-Tetrachloroethane	2	<1.0	<1.0	<1.0	<5.0	<5.0	<1.0	<25.0	<25.0	<50.0	NA*	<250
1,1,2-Trichloroethane	3	<1.0	<1.0	<1.0	<5.0	<5.0	<1.0	<25.0	<25.0	<50.0	NA*	<250
1,1,2-Trichlorotrifluoroethane	200000	9.5	13.3	3.2	37.8	66.4	148	190	215	912	NA*	11,300
1,1-Dichloroethane	70	<1.0	<1.0	<1.0	<5.0	<5.0	<1.0	<25.0	<25.0	<50.0	NA*	<250
1,1-Dichloroethene	6	<1.0	<1.0	<1.0	<5.0	<5.0	<1.0	<25.0	<25.0	<50.0	<2000	<250
1,1-Dichloropropene	NL	<1.0	<1.0	<1.0	<5.0	<5.0	<1.0	<25.0	<25.0	<50.0	NA*	<250
1,2,3-Trichlorobenzene	NL	<1.0	<1.0	<1.0	<5.0	<5.0	<1.0	<25.0	<25.0	<50.0	NA*	<250
1,2,3-Trichloropropane	40	<4.0	<4.0	<4.0	<5.0	<5.0	<1.0	<25.0	<25.0	<50.0	NA*	<250
1,2,4-Trichlorobenzene	NL	<1.0	<1.0	<1.0	<5.0	<5.0	<1.0	<25.0	<25.0	<50.0	NA*	<250
1,2,4-Trimethylbenzene	NL	<1.0	<1.0	<1.0	<5.0	<5.0	<1.0	<25.0	<25.0	<50.0	NA*	<250
1,2-Dibromo-3-chloropropane	NL	<4.0	<4.0	<4.0	<20.0	<20.0	<4.0	<100	<100	<200	NA*	<1000
1,2-Dibromoethane (EDB)	.004	<1.0	<1.0	<1.0	<5.0	<5.0	<1.0	<25.0	<25.0	<50.0	NA*	<250
1,2-Dichlorobenzene	600	<1.0	<1.0	<1.0	<5.0	<5.0	<1.0	<25.0	<25.0	<50.0	NA*	<250
1,2-Dichloroethane	4	<1.0	<1.0	<1.0	<5.0	<5.0	<1.0	<25.0	<25.0	<50.0	NA*	<250
1,2-Dichloropropane	5	<4.0	<4.0	<1.0	<5.0	<5.0	<1.0	<25.0	<25.0	<50.0	NA*	<250
1,3,5-Trimethylbenzene	100	<1.0	<1.0	<1.0	<5.0	<5.0	<1.0	<25.0	<25.0	<50.0	NA*	<250
1,3-Dichlorobenzene	NL	<1.0	<1.0	<1.0	<5.0	<5.0	<1.0	<25.0	<25.0	<50.0	NA*	<250
1,3-Dichloropropane	NL	<1.0	<1.0	<1.0	<5.0	<5.0	<1.0	<25.0	<25.0	<50.0	NA*	<250
1,4-Dichlorobenzene	10	<1.0	<1.0	<1.0	<5.0	<5.0	<1.0	<25.0	<25.0	<50.0	NA*	<250
2,2-Dichloropropane	NL	<4.0	<4.0	<4.0	<20.0	<20.0	<4.0	<100	<100	<50.0	NA*	<250
2-Butanone (MEK)	4000	<4.0	<4.0	<4.0	<20.0	<20.0	<4.0	<100	<100	<200	NA*	<1000
2-Chlorotoluene	NL	<1.0	<1.0	<1.0	<5.0	<5.0	<1.0	<25.0	<25.0	<50.0	NA*	<250
4-Chlorotoluene	NL	<1.0	<1.0	<1.0	<5.0	<5.0	<1.0	<25.0	<25.0	<50.0	NA*	<250
4-Methyl-2-pentanone (MIBK)	300	<4.0	<4.0	<4.0	<20.0	<20.0	<4.0	<100	<100	<200	NA*	<1000
Acetone	700	<25.0	<25.0	<25.0	<50.0	<50.0	<10.0	<250	<250	<500	NA*	<2500
Allyl chloride	30	<4.0	<4.0	<4.0	<20.0	<20.0	<4.0	<100	<100	<200	NA*	<1000
Benzene	2	<1.0	<1.0	<1.0	<5.0	<5.0	<1.0	<25.0	<25.0	<50.0	NA*	<250
Bromobenzene	NL	<1.0	<1.0	<1.0	<5.0	<5.0	<1.0	<25.0	<25.0	<50.0	NA*	<250
Bromochloromethane	NL	<1.0	<1.0	<1.0	<5.0	<5.0	<1.0	<25.0	<25.0	<50.0	NA*	<250
Bromodichloromethane	6	<1.0	<1.0	<1.0	<5.0	<5.0	<1.0	<25.0	<25.0	<50.0	NA*	<250
Bromoform	40	<4.0	<4.0	<8.0	<40.0	<40.0	<8.0	<200	<200	<400	NA*	<2000
Bromomethane	10	<4.0	<4.0	<10.0	<20.0	<20.0	<4.0	<100	<100	<200	NA*	<1000
Carbon tetrachloride	3	<1.0	<1.0	<4.0	<20.0	<20.0	<4.0	<25.0	<100	<50.0	NA*	<250
Chlorobenzene	100	<1.0	<1.0	<1.0	<5.0	<5.0	<1.0	<25.0	<25.0	<50.0	NA*	<250
Chloroethane	300	<1.0	<1.0	<1.0	<5.0	<5.0	<1.0	<25.0	<25.0	<50.0	NA*	<250
Chloroform	30	<1.0	<1.0	<1.0	<5.0	<5.0	2.6	<25.0	<25.0	<50.0	NA*	<250
Chloromethane	NL	<4.0	<4.0	<4.0	<20.0	<20.0	<4.0	<100	<100	<200	NA*	<250
cis-1,2-Dichloroethene	50	2.9	1.3	<1.0	11.5	<5.0	8.7	<25.0	<25.0	<50.0	<2000	3,250
cis-1,3-Dichloropropene	NL	<4.0	<4.0	<4.0	<20.0	<20.0	<4.0	<100	<100	<200	NA*	<1000
Dibromochloromethane	10	<1.0	<1.0	<1.0	<5.0	<5.0	<1.0	<25.0	<25.0	<50.0	NA*	<250
Dibromomethane	NL	<4.0	<4.0	<4.0	<20.0	<20.0	<4.0	<25.0	<25.0	<50.0	NA*	<250
Dichlorodifluoromethane	1000	<1.0	<1.0	<1.0	<5.0	<5.0	<1.0	<25.0	<25.0	<50.0	NA*	<250
Dichlorofluoromethane	NL	<1.0	<1.0	<1.0	<5.0	<5.0	<1.0	<25.0	<25.0	<50.0	NA*	<250
Diethyl ether (Ethyl ether)	1000	<4.0	<4.0	<4.0	<20.0	<20.0	<4.0	<100	<100	<200	NA*	<1000
Ethylbenzene	700	<1.0	<1.0	<1.0	<5.0	<5.0	<1.0	<25.0	<25.0	<50.0	NA*	<250
Hexachloro-1,3-butadiene	1	<5.0	<5.0	<4.0	<20.0	<20.0	<4.0	<100	<100	<200	NA*	<1000
Isopropylbenzene (Cumene)	300	<1.0	<1.0	<1.0	<5.0	<5.0	<1.0	<25.0	<25.0	<50.0	NA*	<250
m&p-Xylene	NL	<2.0	<2.0	<2.0	<10.0	<10.0	<2.0	<50.0	<50.0	<100	NA*	<500
Methylene Chloride	5	<4.0	<4.0	<4.0	<20.0	<20.0	<4.0	<100	<100	<200	NA*	<1000
Methyl-tert-butyl ether	70	<1.0	<1.0	<1.0	<5.0	<5.0	<1.0	<25.0	<25.0	<50.0	NA*	<250
Naphthalene	300	<4.0	<4.0	<4.0	<20.0	<20.0	<4.0	<100	<100	<200	NA*	<1000
n-Butylbenzene	NL	<1.0	<1.0	<1.0	<5.0	<5.0	<1.0	<25.0	<25.0	<50.0	NA*	<250
n-Propylbenzene	NL	<1.0	<1.0	<1.0	<5.0	<5.0	<1.0	<25.0	<25.0	<50.0	NA*	<250
o-Xylene	NL	<1.0	<1.0	<1.0	<5.0	<5.0	<1.0	<25.0	<25.0	<50.0	NA*	<250
p-Isopropyltoluene	NL	<1.0	<1.0	<1.0	<5.0	<5.0	<1.0	<25.0	<25.0	<50.0	NA*	<250
sec-Butylbenzene	NL	<1.0	<1.0	<1.0	<5.0	<5.0	<1.0	<25.0	<25.0	<50.0	NA*	<250
Styrene	NL	<1.0	<1.0	<1.0	<5.0	<5.0	<1.0	<25.0	<25.0	<50.0	NA*	<250
tert-Butylbenzene	NL	<1.0	<1.0	<1.0	<5.0	<5.0	<1.0	<25.0	<25.0	<50.0	NA*	<250
Tetrachloroethene	5	309	185	101	1190	965	1,700	2,610	3,330	6,820	161,000	157,000
Tetrahydrofuran	100	<10.0	<10.0	<10.0	<50.0	<50.0	<10.0	<250	<250	<500	NA*	<2500
Toluene	1000	<1.0	<1.0	<1.0	<5.0	<5.0	<1.0	<25.0	<25.0	<50.0	NA*	<250
trans-1,2-Dichloroethene	100	<4.0	<4.0	<1.0	<5.0	<5.0	<1.0	<25.0	<25.0	<50.0	<2000	<250
trans-1,3-Dichloropropene	NL	<4.0	<4.0	<4.0	<20.0	<20.0	<4.0	<100	<100	<200	NA*	<1000
Trichloroethene	5	<1.0	<1.0	<1.0	<5.0	<5.0	2.3	<25.0	<25.0	<50.0	<2000	563
Trichlorofluoromethane	2000	<1.0	<1.0	<1.0	<5.0	<5.0	<1.0	<25.0	<25.0	<50.0	NA*	<250
Vinyl chloride	0.2	<0.40	<0.40	<0.40	<2.0	<2.0	<0.40	<10.0	<10.0	<20.0	<800	<100
Xylene (Total)	10000	<3.0	<3.0	<3.0	<15.0	<15.0	<3.0	<75.0	<75.0	<150	NA*	<750

Notes:

NL: No Limit
NA*: Not Analyzed

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

TABLE 10

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

Sample ID	MDH Health Risk Limits 5/09	DPE-2 08/28/11	DPE-2 05/19/11	DPE-2 03/01/11	DPE-2 12/22/10	DPE-2 08/18/10	DPE-2 05/13/10	DPE-2 02/22/10	DPE-2 11/17/2009	DPE-2 09/28/09	DPE-2 12/10/08
1,1,1,2-Tetrachloroethane	70	<10.0	<1.0	<25.0	<50.0	<50.0	<1.0	<20.0	<100	<250	NA*
1,1,1-Trichloroethane	9000	<10.0	<1.0	<25.0	<50.0	<50.0	2.9	<20.0	<100	<250	NA*
1,1,2,2-Tetrachloroethane	2	<10.0	<1.0	<25.0	<50.0	<50.0	<1.0	<20.0	<100	<250	NA*
1,1,2-Trichloroethane	3	<10.0	<1.0	<25.0	<50.0	<50.0	<1.0	<20.0	<100	<250	NA*
1,1,2-Trichlorotrifluoroethane	200000	212	199	<25.0	356	997	673	305	1,270	1,620	NA*
1,1-Dichloroethane	70	<10.0	<1.0	<25.0	<50.0	<50.0	<1.0	<20.0	<100	<250	NA*
1,1-Dichloroethene	6	<10.0	<1.0	<25.0	<50.0	<50.0	<1.0	<20.0	<100	<250	<500
1,1-Dichloropropene	NL	<10.0	<1.0	<25.0	<50.0	<50.0	<1.0	<20.0	<100	<250	NA*
1,2,3-Trichlorobenzene	NL	<10.0	<1.0	<25.0	<50.0	<50.0	<1.0	<20.0	<100	<250	NA*
1,2,3-Trichloropropane	40	<40.0	<4.0	<100	<50.0	<50.0	<1.0	<20.0	<100	<250	NA*
1,2,4-Trichlorobenzene	NL	<10.0	<1.0	<25.0	<50.0	<50.0	<1.0	<20.0	<100	<250	NA*
1,2,4-Trimethylbenzene	NL	<10.0	<1.0	<25.0	<50.0	<50.0	<1.0	<20.0	<100	<250	NA*
1,2-Dibromo-3-chloropropane	NL	<40.0	<4.0	<100	<200	<200	<4.0	<80.0	<400	<1000	NA*
1,2-Dibromoethane (EDB)	.004	<10.0	<1.0	<25.0	<50.0	<50.0	<1.0	<20.0	<100	<250	NA*
1,2-Dichlorobenzene	600	<10.0	<1.0	<25.0	<50.0	<50.0	<1.0	<20.0	<100	<250	NA*
1,2-Dichloroethane	4	<10.0	<1.0	<25.0	<50.0	<50.0	<1.0	<20.0	<100	<250	NA*
1,2-Dichloropropane	5	<40.0	<4.0	<25.0	<50.0	<50.0	1.3	<20.0	<100	<250	NA*
1,3,5-Trimethylbenzene	100	<10.0	<1.0	<25.0	<50.0	<50.0	<1.0	<20.0	<100	<250	NA*
1,3-Dichlorobenzene	NL	<10.0	<1.0	<25.0	<50.0	<50.0	<1.0	<20.0	<100	<250	NA*
1,3-Dichloropropane	NL	<10.0	<1.0	<25.0	<50.0	<50.0	<1.0	<20.0	<100	<250	NA*
1,4-Dichlorobenzene	10	<10.0	<1.0	<25.0	<50.0	<50.0	<1.0	<20.0	<100	<250	NA*
2,2-Dichloropropane	NL	<40.0	<4.0	<100	<200	<200	<4.0	<20.0	<400	<250	NA*
2-Butanone (MEK)	4000	<40.0	<4.0	<100	<200	<200	<4.0	<80.0	<400	<1000	NA*
2-Chlorotoluene	NL	<10.0	<1.0	<25.0	<50.0	<50.0	<1.0	<20.0	<100	<250	NA*
4-Chlorotoluene	NL	<10.0	<1.0	<25.0	<50.0	<50.0	<1.0	<20.0	<100	<250	NA*
4-Methyl-2-pentanone (MIBK)	300	<40.0	<4.0	<100	<200	<200	<4.0	<80.0	<400	<1000	NA*
Acetone	700	<25.0	<25.0	<625	<500	<500	<10.0	<200	<1000	<2500	NA*
Allyl chloride	30	<40.0	<4.0	<100	<200	<200	<4.0	<80.0	<400	<1000	NA*
Benzene	2	<10.0	<1.0	<25.0	<50.0	<50.0	<1.0	<20.0	<100	<250	NA*
Bromobenzene	NL	<10.0	<1.0	<25.0	<50.0	<50.0	<1.0	<20.0	<100	<250	NA*
Bromochloromethane	NL	<10.0	<1.0	<25.0	<50.0	<50.0	<1.0	<20.0	<100	<250	NA*
Bromodichloromethane	6	<10.0	<1.0	<25.0	<50.0	<50.0	<1.0	<20.0	<100	<250	NA*
Bromoform	40	<40.0	<4.0	<200	<400	<400	<8.0	<160	<800	<2000	NA*
Bromomethane	10	<40.0	<4.0	<250	<200	<200	<4.0	<80.0	<400	<1000	NA*
Carbon tetrachloride	3	<10.0	<1.0	<100	<200	<200	<4.0	<20.0	<400	<250	NA*
Chlorobenzene	100	<10.0	<1.0	<25.0	<50.0	<50.0	<1.0	<20.0	<100	<250	NA*
Chloroethane	300	<10.0	<1.0	<25.0	<50.0	<50.0	<1.0	<20.0	<100	<250	NA*
Chloroform	30	<10.0	3.1	<25.0	<50.0	<50.0	3.7	<20.0	<100	<250	NA*
Chloromethane	NL	<40.0	<4.0	<100	<200	<200	<4.0	<80.0	<400	<1000	NA*
cis-1,2-Dichloroethene	50	<10.0	5.5	<25.0	<50.0	<50.0	25.8	<20.0	<100	<250	<500
cis-1,3-Dichloropropene	NL	<40.0	<4.0	<100	<200	<200	<4.0	<80.0	<400	<1000	NA*
Dibromochloromethane	10	<10.0	<1.0	<25.0	<50.0	<50.0	<1.0	<20.0	<100	<250	NA*
Dibromomethane	NL	<40.0	<4.0	<100	<200	<200	<4.0	<20.0	<100	<250	NA*
Dichlorodifluoromethane	1000	<10.0	<1.0	<25.0	<50.0	<50.0	<1.0	<20.0	<100	<250	NA*
Dichlorofluoromethane	NL	<10.0	<1.0	<25.0	<50.0	<50.0	<1.0	<20.0	<100	<250	NA*
Diethyl ether (Ethyl ether)	1000	<40.0	<4.0	<100	<200	<200	<4.0	<80.0	<400	<1000	NA*
Ethylbenzene	700	<10.0	<1.0	<25.0	<50.0	<50.0	<1.0	<20.0	<100	<250	NA*
Hexachloro-1,3-butadiene	1	<50.0	<5.0	<100	<200	<200	<4.0	<80.0	<400	<1000	NA*
Isopropylbenzene (Cumene)	300	<10.0	<1.0	<25.0	<50.0	<50.0	<1.0	<20.0	<100	<250	NA*
m&p-Xylene	NL	<20.0	<2.0	<50.0	<100	<100	<2.0	<40.0	<200	<500	NA*
Methylene Chloride	5	<40.0	<4.0	<100	<200	<200	<4.0	<80.0	<400	<1000	NA*
Methyl-tert-butyl ether	70	<10.0	<1.0	<25.0	<50.0	<50.0	<1.0	<20.0	<100	<250	NA*
Naphthalene	300	<40.0	<4.0	<100	<200	<200	<4.0	<80.0	<400	<1000	NA*
n-Butylbenzene	NL	<10.0	<1.0	<25.0	<50.0	<50.0	<1.0	<20.0	<100	<250	NA*
n-Propylbenzene	NL	<10.0	<1.0	<25.0	<50.0	<50.0	<1.0	<20.0	<100	<250	NA*
o-Xylene	NL	<10.0	<1.0	<25.0	<50.0	<50.0	<1.0	<20.0	<100	<250	NA*
p-Isopropyltoluene	NL	<10.0	<1.0	<25.0	<50.0	<50.0	<1.0	<20.0	<100	<250	NA*
sec-Butylbenzene	NL	<10.0	<1.0	<25.0	<50.0	<50.0	<1.0	<20.0	<100	<250	NA*
Styrene	NL	<10.0	<1.0	<25.0	<50.0	<50.0	<1.0	<20.0	<100	<250	NA*
tert-Butylbenzene	NL	<10.0	<1.0	<25.0	<50.0	<50.0	<1.0	<20.0	<100	<250	NA*
Tetrachloroethene	5	2080	1680	2,990	4,690	12,100	5,800	2,710	10,600	32,000	38,200
Tetrahydrofuran	100	<10.0	<10.0	<250	<500	<500	<10.0	<200	<1000	<2500	NA*
Toluene	1000	<10.0	<1.0	<25.0	<50.0	<50.0	<1.0	<20.0	<100	<250	NA*
trans-1,2-Dichloroethene	100	<40.0	<4.0	<25.0	<50.0	<50.0	<1.0	<20.0	<100	<250	<500
trans-1,3-Dichloropropene	NL	<40.0	<4.0	<100	<200	<200	<4.0	<80.0	<400	<1000	NA*
Trichloroethene	5	<10.0	2.2	<25.0	<50.0	<50.0	7.5	<20.0	<100	<250	<500
Trichlorofluoromethane	2000	<10.0	<1.0	<25.0	<50.0	<50.0	<1.0	<20.0	<100	<250	NA*
Vinyl chloride	0.2	<4.0	<0.40	<10.0	<20.0	<20.0	<0.40	<8.0	<40.0	<100	<200
Xylene (Total)	10000	<30.0	<3.0	<75.0	<150	<150	<3.0	<60.0	<300	<750	NA*

Notes:

NL: No Limit

NA*: Not Analyzed

1,620 Parameter detected above laboratory reporting limit

5.2 Parameter detected above MDH Health Risk Limit

TABLE 10

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

Sample ID	MDH Health Risk Limits 5/09	DPE-3 08/28/11	DPE-3 05/19/11	DPE-3 03/01/11	DPE-3 12/22/10	DPE-3 08/18/10	DPE-3 05/13/10	DPE-3 02/22/10	DPE-3 11/17/09	DPE-3 09/28/09	DPE-3 12/10/08
1,1,1,2-Tetrachloroethane	70	<25.0	<20.0	<10.0	<10.0	<20.0	<1.0	<10.0	<200	<200	NA*
1,1,1-Trichloroethane	9000	<25.0	<20.0	<10.0	<10.0	<20.0	<1.0	<10.0	<200	<200	NA*
1,1,2,2-Tetrachloroethane	2	<25.0	<20.0	<10.0	<10.0	<20.0	<1.0	<10.0	<200	<200	NA*
1,1,2-Trichloroethane	3	<25.0	<20.0	<10.0	<10.0	<20.0	<1.0	<10.0	<200	<200	NA*
1,1,2-Trichlorotrifluoroethane	200000	348	343	1030	78.8	2,260	49.5	67.1	1,920	843	NA*
1,1-Dichloroethane	70	<25.0	<20.0	<10.0	<10.0	<20.0	<1.0	<10.0	<200	<200	NA*
1,1-Dichloroethene	6	<25.0	<20.0	<10.0	<10.0	<20.0	<1.0	<10.0	<200	<200	<500
1,1-Dichloropropene	NL	<25.0	<20.0	<10.0	<10.0	<20.0	<1.0	<10.0	<200	<200	NA*
1,2,3-Trichlorobenzene	NL	<25.0	<20.0	<10.0	<10.0	<20.0	<1.0	<10.0	<200	<200	NA*
1,2,3-Trichloropropane	40	<100	<80.0	<40.0	<10.0	<20.0	<1.0	<10.0	<200	<200	NA*
1,2,4-Trichlorobenzene	NL	<25.0	<20.0	<10.0	<10.0	<20.0	<1.0	<10.0	<200	<200	NA*
1,2,4-Trimethylbenzene	NL	<25.0	<20.0	<10.0	<10.0	<20.0	<1.0	<10.0	<200	<200	NA*
1,2-Dibromo-3-chloropropane	NL	<100	<80.0	<40.0	<40.0	<80.0	<4.0	<40.0	<800	<800	NA*
1,2-Dibromoethane (EDB)	.004	<25.0	<20.0	<10.0	<10.0	<20.0	<1.0	<10.0	<200	<200	NA*
1,2-Dichlorobenzene	600	<25.0	<20.0	<10.0	<10.0	<20.0	<1.0	<10.0	<200	<200	NA*
1,2-Dichloroethane	4	<25.0	<20.0	<10.0	<10.0	<20.0	<1.0	<10.0	<200	<200	NA*
1,2-Dichloropropane	5	<100	<80.0	<10.0	<10.0	<20.0	<1.0	<10.0	<200	<200	NA*
1,3,5-Trimethylbenzene	100	<25.0	<20.0	<10.0	<10.0	<20.0	<1.0	<10.0	<200	<200	NA*
1,3-Dichlorobenzene	NL	<25.0	<20.0	<10.0	<10.0	<20.0	<1.0	<10.0	<200	<200	NA*
1,3-Dichloropropane	NL	<25.0	<20.0	<10.0	<10.0	<20.0	<1.0	<10.0	<200	<200	NA*
1,4-Dichlorobenzene	10	<25.0	<20.0	<10.0	<10.0	<20.0	<1.0	<10.0	<200	<200	NA*
2,2-Dichloropropane	NL	<100	<80.0	<40.0	<40.0	<80.0	<4.0	<10.0	<800	<200	NA*
2-Butanone (MEK)	4000	<100	<80.0	<40.0	<40.0	<80.0	<4.0	<40.0	<800	<800	NA*
2-Chlorotoluene	NL	<25.0	<20.0	<10.0	<10.0	<20.0	<1.0	<10.0	<200	<200	NA*
4-Chlorotoluene	NL	<25.0	<20.0	<10.0	<10.0	<20.0	<1.0	<10.0	<200	<200	NA*
4-Methyl-2-pentanone (MIBK)	300	<100	<80.0	<40.0	<40.0	<80.0	<4.0	<40.0	<800	<800	NA*
Acetone	700	<625	<500	<250	<100	<200	<10.0	<100	<2000	<2000	NA*
Allyl chloride	30	<100	<80.0	<40.0	<40.0	<80.0	<4.0	<40.0	<800	<800	NA*
Benzene	2	<25.0	<20.0	<10.0	<10.0	<20.0	<1.0	<10.0	<200	<200	NA*
Bromobenzene	NL	<25.0	<20.0	<10.0	<10.0	<20.0	<1.0	<10.0	<200	<200	NA*
Bromochloromethane	NL	<25.0	<20.0	<10.0	<10.0	<20.0	<1.0	<10.0	<200	<200	NA*
Bromodichloromethane	6	<25.0	<20.0	<10.0	<10.0	<20.0	<1.0	<10.0	<200	<200	NA*
Bromoform	40	<100	<80.0	<80.0	<80.0	<160	<8.0	<80.0	<1600	<1600	NA*
Bromomethane	10	<100	<80.0	<40.0	<40.0	<80.0	<4.0	<40.0	<800	<800	NA*
Carbon tetrachloride	3	<25.0	<20.0	<40.0	<40.0	<80.0	<4.0	<10.0	<800	<200	NA*
Chlorobenzene	100	<25.0	<20.0	<10.0	<10.0	<20.0	<1.0	<10.0	<200	<200	NA*
Chloroethane	300	<25.0	<20.0	<10.0	<10.0	<20.0	<1.0	<10.0	<200	<200	NA*
Chloroform	30	<25.0	<20.0	<10.0	<10.0	<20.0	<1.0	<10.0	<200	<200	NA*
Chloromethane	NL	<100	<80.0	<40.0	<40.0	<80.0	<4.0	<40.0	<800	<800	NA*
cis-1,2-Dichloroethene	50	<25.0	<20.0	19.6	<10.0	59.2	2.6	<10.0	<200	<200	1,090
cis-1,3-Dichloropropene	NL	<100	<80.0	<40.0	<40.0	<80.0	<4.0	<40.0	<800	<800	NA*
Dibromochloromethane	10	<25.0	<20.0	<10.0	<10.0	<20.0	<1.0	<10.0	<200	<200	NA*
Dibromomethane	NL	<100	<80.0	<40.0	<40.0	<80.0	<4.0	<10.0	<200	<200	NA*
Dichlorodifluoromethane	1000	<25.0	<20.0	<10.0	<10.0	<20.0	<1.0	<10.0	<200	<200	NA*
Dichlorofluoromethane	NL	<25.0	<20.0	<10.0	<10.0	<20.0	<1.0	<10.0	<200	<200	NA*
Diethyl ether (Ethyl ether)	1000	<100	<80.0	<40.0	<40.0	<80.0	<4.0	<40.0	<800	<800	NA*
Ethylbenzene	700	<25.0	<20.0	<10.0	<10.0	<20.0	<1.0	<10.0	<200	<200	NA*
Hexachloro-1,3-butadiene	1	<125	<100	<40.0	<40.0	<80.0	<4.0	<40.0	<800	<800	NA*
Isopropylbenzene (Cumene)	300	<25.0	<20.0	<10.0	<10.0	<20.0	<1.0	<10.0	<200	<200	NA*
m&p-Xylene	NL	<50.0	<40.0	<20.0	<20.0	<40.0	<2.0	<20.0	<400	<400	NA*
Methylene Chloride	5	<100	<80.0	<40.0	<40.0	<80.0	<4.0	<40.0	<800	<800	NA*
Methyl-tert-butyl ether	70	<25.0	<20.0	<10.0	<10.0	<20.0	<1.0	<10.0	<200	<200	NA*
Naphthalene	300	<100	<80.0	<40.0	<40.0	<80.0	<4.0	<40.0	<800	<800	NA*
n-Butylbenzene	NL	<25.0	<20.0	<10.0	<10.0	<20.0	<1.0	<10.0	<200	<200	NA*
n-Propylbenzene	NL	<25.0	<20.0	<10.0	<10.0	<20.0	<1.0	<10.0	<200	<200	NA*
o-Xylene	NL	<25.0	<20.0	<10.0	<10.0	<20.0	<1.0	<10.0	<200	<200	NA*
p-Isopropyltoluene	NL	<25.0	<20.0	<10.0	<10.0	<20.0	<1.0	<10.0	<200	<200	NA*
sec-Butylbenzene	NL	<25.0	<20.0	<10.0	<10.0	<20.0	<1.0	<10.0	<200	<200	NA*
Styrene	NL	<25.0	<20.0	<10.0	<10.0	<20.0	<1.0	<10.0	<200	<200	NA*
tert-Butylbenzene	NL	<25.0	<20.0	<10.0	<10.0	<20.0	<1.0	<10.0	<200	<200	NA*
Tetrachloroethene	5	4260	3220	12,700	1,450	20,400	2,240	806	34,600	20,300	152,000
Tetrahydrofuran	100	<25.0	<20.0	<100	<100	<200	10.9	<100	<2000	<2000	NA*
Toluene	1000	<25.0	<20.0	<10.0	<10.0	<20.0	<1.0	<10.0	<200	<200	NA*
trans-1,2-Dichloroethene	100	<100	<80.0	<10.0	<10.0	<20.0	<1.0	<10.0	<200	<200	<500
trans-1,3-Dichloropropene	NL	<100	<80.0	<40.0	<40.0	<80.0	<4.0	<40.0	<800	<800	NA*
Trichloroethene	5	<25.0	<20.0	12.3	<10.0	22.8	<1.0	<10.0	<200	<200	<500
Trichlorofluoromethane	2000	<25.0	<20.0	<10.0	<10.0	<20.0	<1.0	<10.0	<200	<200	NA*
Vinyl chloride	0.2	<10.0	<8.0	<4.0	<4.0	<8.0	<0.40	<4.0	<80.0	<80.0	<200
Xylene (Total)	10000	<75.0	<60.0	<30.0	<30.0	<60.0	<3.0	<30.0	<600	<600	NA*

Notes:

NL: No Limit

NA*: Not Analyzed

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

TABLE 10

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

Sample ID	MDH Health Risk Limits 5/09	DPE-4 08/28/11	DPE-4 05/19/11	DPE-4 03/01/11	DPE-4 12/22/10	DPE-4 08/18/10	DPE-4 05/13/10	DPE-4 02/22/10	DPE-4 11/17/09	DPE-4 09/28/09	DPE-4 12/10/08
1,1,1,2-Tetrachloroethane	70	<5.0	<2.0	<10.0	<10.0	<5.0	<1.0	<5.0	<50.0	<50.0	NA*
1,1,1-Trichloroethane	9000	<5.0	<2.0	<10.0	<10.0	<5.0	<1.0	<5.0	<50.0	<50.0	NA*
1,1,2,2-Tetrachloroethane	2	<5.0	<2.0	<10.0	<10.0	<5.0	<1.0	<5.0	<50.0	<50.0	NA*
1,1,2-Trichloroethane	3	<5.0	<2.0	<10.0	<10.0	<5.0	<1.0	<5.0	<50.0	<50.0	NA*
1,1,2-Trichlorotrifluoroethane	200000	93.8	60.2	127	39.4	181	48.1	41.9	464	339	NA*
1,1-Dichloroethane	70	<5.0	<2.0	<10.0	<10.0	<5.0	<1.0	<5.0	<50.0	<50.0	NA*
1,1-Dichloroethene	6	<5.0	<2.0	<10.0	<10.0	<5.0	<1.0	<5.0	<50.0	<50.0	<500
1,1-Dichloropropene	NL	<5.0	<2.0	<10.0	<10.0	<5.0	<1.0	<5.0	<50.0	<50.0	NA*
1,2,3-Trichlorobenzene	NL	<5.0	<2.0	<10.0	<10.0	<5.0	<1.0	<5.0	<50.0	<50.0	NA*
1,2,3-Trichloropropane	40	<20.0	<8.0	<40.0	<10.0	<5.0	<1.0	<5.0	<50.0	<50.0	NA*
1,2,4-Trichlorobenzene	NL	<5.0	<2.0	<10.0	<10.0	<5.0	<1.0	<5.0	<50.0	<50.0	NA*
1,2,4-Trimethylbenzene	NL	<5.0	<2.0	<10.0	<10.0	<5.0	<1.0	<5.0	<50.0	<50.0	NA*
1,2-Dibromo-3-chloropropane	NL	<20.0	<8.0	<40.0	<40.0	<20.0	<4.0	<20.0	<200	<200	NA*
1,2-Dibromoethane (EDB)	.004	<5.0	<2.0	<10.0	<10.0	<5.0	<1.0	<5.0	<50.0	<50.0	NA*
1,2-Dichlorobenzene	600	<5.0	<2.0	<10.0	<10.0	<5.0	<1.0	<5.0	<50.0	<50.0	NA*
1,2-Dichloroethane	4	<5.0	<2.0	<10.0	<10.0	<5.0	<1.0	<5.0	<50.0	<50.0	NA*
1,2-Dichloropropene	5	<20.0	<8.0	<10.0	<10.0	<5.0	<1.0	<5.0	<50.0	<50.0	NA*
1,3,5-Trimethylbenzene	100	<5.0	<2.0	<10.0	<10.0	<5.0	<1.0	<5.0	<50.0	<50.0	NA*
1,3-Dichlorobenzene	NL	<5.0	<2.0	<10.0	<10.0	<5.0	<1.0	<5.0	<50.0	<50.0	NA*
1,3-Dichloropropane	NL	<5.0	<2.0	<10.0	<10.0	<5.0	<1.0	<5.0	<50.0	<50.0	NA*
1,4-Dichlorobenzene	10	<5.0	<2.0	<10.0	<10.0	<5.0	<1.0	<5.0	<50.0	<50.0	NA*
2,2-Dichloropropane	NL	<20.0	<8.0	<40.0	<40.0	<20.0	<4.0	<5.0	<200	<50.0	NA*
2-Butanone (MEK)	4000	<20.0	<8.0	<40.0	<40.0	<20.0	<4.0	<20.0	<200	<200	NA*
2-Chlorotoluene	NL	<5.0	<2.0	<10.0	<10.0	<5.0	<1.0	<5.0	<50.0	<50.0	NA*
4-Chlorotoluene	NL	<5.0	<2.0	<10.0	<10.0	<5.0	<1.0	<5.0	<50.0	<50.0	NA*
4-Methyl-2-pentanone (MIBK)	300	<20.0	<8.0	<40.0	<40.0	<20.0	<4.0	<20.0	<200	<200	NA*
Acetone	700	<125	<50.0	<250	<100	<50.0	<10.0	<50.0	<500	<500	NA*
Allyl chloride	30	<20.0	<8.0	<40.0	<40.0	<20.0	<4.0	<20.0	<200	<200	NA*
Benzene	2	<5.0	<2.0	<10.0	<10.0	<5.0	<1.0	<5.0	<50.0	<50.0	NA*
Bromobenzene	NL	<5.0	<2.0	<10.0	<10.0	<5.0	<1.0	<5.0	<50.0	<50.0	NA*
Bromochloromethane	NL	<5.0	<2.0	<10.0	<10.0	<5.0	<1.0	<5.0	<50.0	<50.0	NA*
Bromodichloromethane	6	<5.0	<2.0	<10.0	<10.0	<5.0	<1.0	<5.0	<50.0	<50.0	NA*
Bromoform	40	<20.0	<8.0	<80.0	<80.0	<40.0	<8.0	<40.0	<400	<400	NA*
Bromomethane	10	<20.0	<8.0	<100	<40.0	<20.0	<4.0	<20.0	<200	<200	NA*
Carbon tetrachloride	3	<5.0	<2.0	<40.0	<40.0	<20.0	<4.0	<5.0	<200	<50.0	NA*
Chlorobenzene	100	<5.0	<2.0	<10.0	<10.0	<5.0	<1.0	<5.0	<50.0	<50.0	NA*
Chloroethane	300	<5.0	<2.0	<10.0	<10.0	<5.0	<1.0	<5.0	<50.0	<50.0	NA*
Chloroform	30	<5.0	<2.0	<10.0	<10.0	<5.0	<1.0	<5.0	<50.0	<50.0	NA*
Chloromethane	NL	<20.0	<8.0	<40.0	<40.0	<20.0	<4.0	<20.0	<200	<200	NA*
cis-1,2-Dichloroethene	50	<5.0	<2.0	<10.0	<10.0	20.7	1.1	<5.0	<50.0	<50.0	<500
cis-1,3-Dichloropropene	NL	<20.0	<8.0	<40.0	<40.0	<20.0	<4.0	<20.0	<200	<200	NA*
Dibromochloromethane	10	<5.0	<2.0	<10.0	<10.0	<5.0	<1.0	<5.0	<50.0	<50.0	NA*
Dibromomethane	NL	<20.0	<8.0	<40.0	<40.0	<20.0	<4.0	<5.0	<50.0	<50.0	NA*
Dichlorodifluoromethane	1000	<5.0	<2.0	<10.0	<10.0	<5.0	<1.0	<5.0	<50.0	<50.0	NA*
Dichlorofluoromethane	NL	<5.0	<2.0	<10.0	<10.0	<5.0	<1.0	<5.0	<50.0	<50.0	NA*
Diethyl ether (Ethyl ether)	1000	<20.0	<8.0	<40.0	<40.0	<20.0	<4.0	<20.0	<200	<200	NA*
Ethylbenzene	700	<5.0	<2.0	<10.0	<10.0	<5.0	<1.0	<5.0	<50.0	<50.0	NA*
Hexachloro-1,3-butadiene	1	<25.0	<10.0	<40.0	<40.0	<20.0	<4.0	<20.0	<200	<200	NA*
Isopropylbenzene (Cumene)	300	<5.0	<2.0	<10.0	<10.0	<5.0	<1.0	<5.0	<50.0	<50.0	NA*
m&p-Xylene	NL	<10.0	<4.0	<20.0	<20.0	<10.0	<2.0	<10.0	<100	<100	NA*
Methylene Chloride	5	<20.0	<8.0	<40.0	<40.0	<20.0	<4.0	<20.0	<200	<200	NA*
Methyl-tert-butyl ether	70	<5.0	<2.0	<10.0	<10.0	<5.0	<1.0	<5.0	<50.0	<50.0	NA*
Naphthalene	300	<20.0	<8.0	<40.0	<40.0	<20.0	<4.0	<20.0	<200	<200	NA*
n-Butylbenzene	NL	<5.0	<2.0	<10.0	<10.0	<5.0	<1.0	<5.0	<50.0	<50.0	NA*
n-Propylbenzene	NL	<5.0	<2.0	<10.0	<10.0	<5.0	<1.0	<5.0	<50.0	<50.0	NA*
o-Xylene	NL	<5.0	<2.0	<10.0	<10.0	<5.0	<1.0	<5.0	<50.0	<50.0	NA*
p-Isopropyltoluene	NL	<5.0	<2.0	<10.0	<10.0	<5.0	<1.0	<5.0	<50.0	<50.0	NA*
sec-Butylbenzene	NL	<5.0	<2.0	<10.0	<10.0	<5.0	<1.0	<5.0	<50.0	<50.0	NA*
Styrene	NL	<5.0	<2.0	<10.0	<10.0	<5.0	<1.0	<5.0	<50.0	<50.0	NA*
tert-Butylbenzene	NL	<5.0	<2.0	<10.0	<10.0	<5.0	<1.0	<5.0	<50.0	<50.0	NA*
Tetrachloroethene	5	771	367	1,160	1,100	2,600	357	429	5,040	7,340	35,600
Tetrahydrofuran	100	<50.0	<20.0	<100	<100	<50.0	<10.0	<50.0	<500	<500	NA*
Toluene	1000	<5.0	<2.0	<10.0	<10.0	<5.0	<1.0	<5.0	<50.0	<50.0	NA*
trans-1,2-Dichloroethene	100	<20.0	<8.0	<10.0	<10.0	<5.0	<1.0	<5.0	<50.0	<50.0	<500
trans-1,3-Dichloropropene	NL	<20.0	<8.0	<40.0	<40.0	<20.0	<4.0	<20.0	<200	<200	NA*
Trichloroethene	5	<5.0	<2.0	<10.0	<10.0	7.1	<1.0	<5.0	<50.0	<50.0	<500
Trichlorofluoromethane	2000	<5.0	<2.0	<10.0	<10.0	<5.0	<1.0	<5.0	<50.0	<50.0	NA*
Vinyl chloride	0.2	<2.0	<0.80	<4.0	<4.0	<2.0	<0.40	<2.0	<20.0	<20.0	<200
Xylene (Total)	10000	<15.0	<6.0	<30.0	<30.0	<15.0	<3.0	<15.0	<150	<150	NA*

Notes:

NL: No Limit

NA*: Not Analyzed

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

TABLE 10

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

Sample ID	MDH Health Risk Limits 5/09	DPE-5 08/28/11	DPE-5 05/19/11	DPE-5 03/01/11	DPE-5 12/22/10	DPE-5 08/18/10	DPE-5 05/13/10	DPE-5 02/22/10	DPE-5 11/17/09	DPE-5 09/24/09	DPE-5 12/10/08
1,1,1,2-Tetrachloroethane	70	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<10.0	<10.0	NA*
1,1,1-Trichloroethane	9000	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<10.0	<10.0	NA*
1,1,2,2-Tetrachloroethane	2	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<10.0	<10.0	NA*
1,1,2-Trichloroethane	3	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<10.0	<10.0	NA*
1,1,2-Trichlorotrifluoroethane	200000	<1.0	5.2	13.9	<1.0	11.5	16.9	19.4	498	37.9	NA*
1,1-Dichloroethane	70	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<10.0	<10.0	NA*
1,1-Dichloroethene	6	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<10.0	<10.0	<10.0
1,1-Dichloropropene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<10.0	<10.0	NA*
1,2,3-Trichlorobenzene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<10.0	<10.0	NA*
1,2,3-Trichloropropane	40	<4.0	<4.0	<4.0	<1.0	<1.0	<1.0	<5.0	<10.0	<10.0	NA*
1,2,4-Trichlorobenzene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<10.0	<10.0	NA*
1,2,4-Trimethylbenzene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<10.0	<10.0	NA*
1,2-Dibromo-3-chloropropane	NL	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<20.0	<40.0	<40.0	NA*
1,2-Dibromoethane (EDB)	.004	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<10.0	<10.0	NA*
1,2-Dichlorobenzene	600	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<10.0	<10.0	NA*
1,2-Dichloroethane	4	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<10.0	<10.0	NA*
1,2-Dichloropropene	5	<4.0	<4.0	<1.0	<1.0	<1.0	<1.0	<5.0	<10.0	<10.0	NA*
1,3,5-Trimethylbenzene	100	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<10.0	<10.0	NA*
1,3-Dichlorobenzene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<10.0	<10.0	NA*
1,3-Dichloropropane	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<10.0	<10.0	NA*
1,4-Dichlorobenzene	10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<10.0	<10.0	NA*
2,2-Dichloropropane	NL	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<5.0	<40.0	<10.0	NA*
2-Butanone (MEK)	4000	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<20.0	<40.0	<40.0	NA*
2-Chlorotoluene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<10.0	<10.0	NA*
4-Chlorotoluene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<10.0	<10.0	NA*
4-Methyl-2-pentanone (MIBK)	300	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<20.0	<40.0	<40.0	NA*
Acetone	700	<25.0	<25.0	<25.0	<10.0	<10.0	<10.0	<50.0	<100	<100	NA*
Allyl chloride	30	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<20.0	<40.0	<40.0	NA*
Benzene	2	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<10.0	<10.0	NA*
Bromobenzene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<10.0	<10.0	NA*
Bromochloromethane	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<10.0	<10.0	NA*
Bromodichloromethane	6	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<10.0	<10.0	NA*
Bromoform	40	<4.0	<4.0	<8.0	<8.0	<8.0	<8.0	<40.0	<80.0	<80.0	NA*
Bromomethane	10	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<20.0	<40.0	<40.0	NA*
Carbon tetrachloride	3	<1.0	<1.0	<4.0	<4.0	<4.0	<4.0	<5.0	<40.0	<10.0	NA*
Chlorobenzene	100	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<10.0	<10.0	NA*
Chloroethane	300	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<10.0	<10.0	NA*
Chloroform	30	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<10.0	<10.0	NA*
Chloromethane	NL	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<20.0	<40.0	<40.0	NA*
cis-1,2-Dichloroethene	50	<1.0	<1.0	1.3	<1.0	1.3	1.8	<5.0	<10.0	<10.0	<10.0
cis-1,3-Dichloropropene	NL	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<20.0	<40.0	<40.0	NA*
Dibromochloromethane	10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<10.0	<10.0	NA*
Dibromomethane	NL	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<5.0	<10.0	<10.0	NA*
Dichlorodifluoromethane	1000	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<10.0	<10.0	NA*
Dichlorofluoromethane	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<10.0	<10.0	NA*
Diethyl ether (Ethyl ether)	1000	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<20.0	<40.0	<40.0	NA*
Ethylbenzene	700	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<10.0	<10.0	NA*
Hexachloro-1,3-butadiene	1	<5.0	<5.0	<4.0	<4.0	<4.0	<4.0	<20.0	<40.0	<40.0	NA*
Isopropylbenzene (Cumene)	300	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<10.0	<10.0	NA*
m&p-Xylene	NL	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<10.0	<20.0	<20.0	NA*
Methylene Chloride	5	<4.0	<4.0	6.2	<4.0	<4.0	<4.0	<20.0	<40.0	<40.0	NA*
Methyl-tert-butyl ether	70	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<10.0	<10.0	NA*
Naphthalene	300	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<20.0	<40.0	<40.0	NA*
n-Butylbenzene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<10.0	<10.0	NA*
n-Propylbenzene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<10.0	<10.0	NA*
o-Xylene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<10.0	<10.0	NA*
p-Isopropyltoluene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<10.0	<10.0	NA*
sec-Butylbenzene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<10.0	<10.0	NA*
Styrene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<10.0	<10.0	NA*
tert-Butylbenzene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<10.0	<10.0	NA*
Tetrachloroethene	5	<1.0	67.2	339	21.6	124	205	486	1,450	875	1,340
Tetrahydrofuran	100	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<50.0	<100	<100	NA*
Toluene	1000	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<10.0	<10.0	NA*
trans-1,2-Dichloroethene	100	<4.0	<4.0	<1.0	<1.0	<1.0	<1.0	<5.0	<10.0	<10.0	<10.0
trans-1,3-Dichloropropene	NL	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<20.0	<40.0	<40.0	NA*
Trichloroethene	5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<10.0	<10.0	<10.0
Trichlorofluoromethane	2000	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<10.0	<10.0	NA*
Vinyl chloride	0.2	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<2.0	<4.0	<4.0	<4.0
Xylene (Total)	10000	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<15.0	<30.0	<30.0	NA*

Notes:

NL: No Limit

NA*: Not Analyzed

1,620 Parameter detected above laboratory reporting limit

5.2 Parameter detected above MDH Health Risk Limit

TABLE 10

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

Sample ID	MDH Health Risk Limits 5/09	DPE-6 08/28/11	DPE-6 05/19/11	DPE-6 03/01/11	DPE-6 12/22/10	DPE-6 08/18/10	DPE-6 05/13/10	DPE-6 02/22/10	DPE-6 11/17/09	DPE-6 09/24/09	DPE-6 12/10/08
1,1,1,2-Tetrachloroethane	70	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
1,1,1-Trichloroethane	9000	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
1,1,2,2-Tetrachloroethane	2	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
1,1,2-Trichloroethane	3	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
1,1,2-Trichlorotrifluoroethane	200000	<1.0	<1.0	<1.0	1.5	<1.0	<1.0	<1.0	<1.0	3.5	NA*
1,1-Dichloroethane	70	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
1,1-Dichloroethene	6	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0
1,1-Dichloropropene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
1,2,3-Trichlorobenzene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
1,2,3-Trichloropropane	40	<4.0	<4.0	<4.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
1,2,4-Trichlorobenzene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
1,2,4-Trimethylbenzene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
1,2-Dibromo-3-chloropropane	NL	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	NA*
1,2-Dibromoethane (EDB)	.004	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
1,2-Dichlorobenzene	600	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
1,2-Dichloroethane	4	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
1,2-Dichloropropene	5	<4.0	<4.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
1,3,5-Trimethylbenzene	100	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
1,3-Dichlorobenzene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
1,3-Dichloropropane	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
1,4-Dichlorobenzene	10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
2,2-Dichloropropane	NL	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<1.0	<4.0	<1.0	NA*
2-Butanone (MEK)	4000	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	NA*
2-Chlorotoluene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
4-Chlorotoluene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
4-Methyl-2-pentanone (MIBK)	300	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	NA*
Acetone	700	<25.0	<25.0	<25.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	NA*
Allyl chloride	30	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	NA*
Benzene	2	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
Bromobenzene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
Bromochloromethane	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
Bromodichloromethane	6	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
Bromoform	40	<4.0	<4.0	<8.0	<8.0	<8.0	<8.0	<8.0	<8.0	<8.0	NA*
Bromomethane	10	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	NA*
Carbon tetrachloride	3	<1.0	<1.0	<4.0	<4.0	<4.0	<4.0	<1.0	<4.0	<1.0	NA*
Chlorobenzene	100	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
Chloroethane	300	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
Chloroform	30	<1.0	1.4	1.1	1.2	1.0	1.1	1.6	1.6	<1.0	NA*
Chloromethane	NL	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	NA*
cis-1,2-Dichloroethene	50	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	1.5	<1.0	<2.0
cis-1,3-Dichloropropene	NL	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	NA*
Dibromochloromethane	10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
Dibromomethane	NL	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<1.0	<1.0	<1.0	NA*
Dichlorodifluoromethane	1000	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
Dichlorofluoromethane	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
Diethyl ether (Ethyl ether)	1000	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	NA*
Ethylbenzene	700	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
Hexachloro-1,3-butadiene	1	<5.0	<5.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	NA*
Isopropylbenzene (Cumene)	300	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
m&p-Xylene	NL	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	NA*
Methylene Chloride	5	<4.0	<4.0	7.3	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	NA*
Methyl-tert-butyl ether	70	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
Naphthalene	300	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	NA*
n-Butylbenzene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
n-Propylbenzene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
o-Xylene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
p-Isopropyltoluene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
sec-Butylbenzene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
Styrene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
tert-Butylbenzene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
Tetrachloroethene	5	7.7	23.4	3.9	77.1	21.7	14.6	57.8	104	79.3	188
Tetrahydrofuran	100	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	NA*
Toluene	1000	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
trans-1,2-Dichloroethene	100	<4.0	<4.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0
trans-1,3-Dichloropropene	NL	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	NA*
Trichloroethene	5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0
Trichlorofluoromethane	2000	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
Vinyl chloride	0.2	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.80
Xylene (Total)	10000	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	NA*

Notes:

NL: No Limit

NA*: Not Analyzed

1.620 Parameter detected above laboratory reporting limit

5.2 Parameter detected above MDH Health Risk Limit

TABLE 10

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

Sample ID	MDH Health Risk Limits 5/09	DPE-7 08/28/11	DPE-7 05/19/11	DPE-7 03/01/11	DPE-7 12/22/10	DPE-7 08/18/10	DPE-7 05/13/10	DPE-7 02/22/10	DPE-7 11/17/09	DPE-7 09/24/09	DPE-7 12/10/08
1,1,1,2-Tetrachloroethane	70	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
1,1,1-Trichloroethane	9000	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
1,1,2,2-Tetrachloroethane	2	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
1,1,2-Trichloroethane	3	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
1,1,2-Trichlorotrifluoroethane	200000	3.8	1.8	<1.0	2.2	11.9	4.0	2.7	9.8	1.6	NA*
1,1-Dichloroethane	70	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
1,1-Dichloroethene	6	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1-Dichloropropene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
1,2,3-Trichlorobenzene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
1,2,3-Trichloropropane	40	<4.0	<4.0	<4.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
1,2,4-Trichlorobenzene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
1,2,4-Trimethylbenzene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
1,2-Dibromo-3-chloropropane	NL	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	NA*
1,2-Dibromoethane (EDB)	.004	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
1,2-Dichlorobenzene	600	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
1,2-Dichloroethane	4	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
1,2-Dichloropropane	5	<4.0	<4.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
1,3,5-Trimethylbenzene	100	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
1,3-Dichlorobenzene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
1,3-Dichloropropane	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
1,4-Dichlorobenzene	10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
2,2-Dichloropropane	NL	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<1.0	<4.0	<1.0	NA*
2-Butanone (MEK)	4000	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	NA*
2-Chlorotoluene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
4-Chlorotoluene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
4-Methyl-2-pentanone (MIBK)	300	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	NA*
Acetone	700	<25.0	<25.0	<25.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	NA*
Allyl chloride	30	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	NA*
Benzene	2	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
Bromobenzene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
Bromochloromethane	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
Bromodichloromethane	6	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
Bromoform	40	<4.0	<4.0	<8.0	<8.0	<8.0	<8.0	<8.0	<8.0	<8.0	NA*
Bromomethane	10	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	NA*
Carbon tetrachloride	3	<1.0	<1.0	<4.0	<4.0	<4.0	<4.0	<1.0	<4.0	<1.0	NA*
Chlorobenzene	100	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
Chloroethane	300	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
Chloroform	30	1.2	2.3	2.3	<1.0	1.3	1.3	1.2	1.1	1.3	NA*
Chloromethane	NL	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	NA*
cis-1,2-Dichloroethene	50	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
cis-1,3-Dichloropropene	NL	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	NA*
Dibromochloromethane	10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
Dibromomethane	NL	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<1.0	<1.0	<1.0	NA*
Dichlorodifluoromethane	1000	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
Dichlorofluoromethane	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
Diethyl ether (Ethyl ether)	1000	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	NA*
Ethylbenzene	700	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
Hexachloro-1,3-butadiene	1	<5.0	<5.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	NA*
Isopropylbenzene (Cumene)	300	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
m&p-Xylene	NL	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	NA*
Methylene Chloride	5	<4.0	<4.0	6.6	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	NA*
Methyl-tert-butyl ether	70	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
Naphthalene	300	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	NA*
n-Butylbenzene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
n-Propylbenzene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
o-Xylene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
p-Isopropyltoluene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
sec-Butylbenzene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
Styrene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
tert-Butylbenzene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
Tetrachloroethene	5	26.9	15.9	7.1	23.2	189	25.7	7.3	55.2	5.2	22.3
Tetrahydrofuran	100	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	NA*
Toluene	1000	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
trans-1,2-Dichloroethene	100	<4.0	<4.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
trans-1,3-Dichloropropene	NL	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	NA*
Trichloroethene	5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Trichlorofluoromethane	2000	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
Vinyl chloride	0.2	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40
Xylene (Total)	10000	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	NA*

Notes:

NL: No Limit

NA*: Not Analyzed

1.620 Parameter detected above laboratory reporting limit

5.2 Parameter detected above MDH Health Risk Limit

TABLE 10

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

Sample ID	MDH Health Risk Limits 5/09	DPE-8 08/28/11	DPE-8 05/19/11	DPE-8 03/01/11	DPE-8 12/22/10	DPE-8 08/18/10	DPE-8 05/13/10	DPE-8 02/22/10	DPE-8 11/17/09	DPE-8 09/24/09	DPE-8 12/10/08
1,1,1,2-Tetrachloroethane	70	<2.0	<5.0	<2.0	<1.0	<1.0	<1.0	<1.0	<10.0	<2.0	NA*
1,1,1-Trichloroethane	9000	<2.0	<5.0	<2.0	<1.0	<1.0	<1.0	<1.0	<10.0	<2.0	NA*
1,1,2,2-Tetrachloroethane	2	<2.0	<5.0	<2.0	<1.0	<1.0	<1.0	<1.0	<10.0	<2.0	NA*
1,1,2-Trichloroethane	3	<2.0	<5.0	<2.0	<1.0	<1.0	<1.0	<1.0	<10.0	<2.0	NA*
1,1,2-Trichlorotrifluoroethane	200000	32.4	77.9	48.7	33.5	5.9	2.2	3.8	34.2	43.4	NA*
1,1-Dichloroethane	70	<2.0	<5.0	<2.0	<1.0	<1.0	<1.0	<1.0	<10.0	<2.0	NA*
1,1-Dichloroethene	6	<2.0	<5.0	<2.0	<1.0	<1.0	<1.0	<1.0	<10.0	<2.0	<100
1,1-Dichloropropene	NL	<2.0	<5.0	<2.0	<1.0	<1.0	<1.0	<1.0	<10.0	<2.0	NA*
1,2,3-Trichlorobenzene	NL	<2.0	<5.0	<2.0	<1.0	<1.0	<1.0	<1.0	<10.0	<2.0	NA*
1,2,3-Trichloropropane	40	<8.0	<20.0	<8.0	<1.0	<1.0	<1.0	<1.0	<10.0	<2.0	NA*
1,2,4-Trichlorobenzene	NL	<2.0	<5.0	<2.0	<1.0	<1.0	<1.0	<1.0	<10.0	<2.0	NA*
1,2,4-Trimethylbenzene	NL	<2.0	<5.0	<2.0	<1.0	<1.0	<1.0	<1.0	<10.0	<2.0	NA*
1,2-Dibromo-3-chloropropane	NL	<8.0	<20.0	<8.0	<4.0	<4.0	<4.0	<4.0	<40.0	<8.0	NA*
1,2-Dibromoethane (EDB)	.004	<2.0	<5.0	<2.0	<1.0	<1.0	<1.0	<1.0	<10.0	<2.0	NA*
1,2-Dichlorobenzene	600	<2.0	<5.0	<2.0	<1.0	<1.0	<1.0	<1.0	<10.0	<2.0	NA*
1,2-Dichloroethane	4	<2.0	<5.0	<2.0	<1.0	<1.0	<1.0	<1.0	<10.0	<2.0	NA*
1,2-Dichloropropane	5	<8.0	<20.0	<2.0	<1.0	<1.0	<1.0	<1.0	<10.0	<2.0	NA*
1,3,5-Trimethylbenzene	100	<2.0	<5.0	<2.0	<1.0	<1.0	<1.0	<1.0	<10.0	<2.0	NA*
1,3-Dichlorobenzene	NL	<2.0	<5.0	<2.0	<1.0	<1.0	<1.0	<1.0	<10.0	<2.0	NA*
1,3-Dichloropropane	NL	<2.0	<5.0	<2.0	<1.0	<1.0	<1.0	<1.0	<10.0	<2.0	NA*
1,4-Dichlorobenzene	10	<2.0	<5.0	<2.0	<1.0	<1.0	<1.0	<1.0	<10.0	<2.0	NA*
2,2-Dichloropropane	NL	<8.0	<20.0	<8.0	<4.0	<4.0	<4.0	<1.0	<40.0	<2.0	NA*
2-Butanone (MEK)	4000	<8.0	<20.0	<8.0	<4.0	<4.0	<4.0	<4.0	<40.0	24.1	NA*
2-Chlorotoluene	NL	<2.0	<5.0	<2.0	<1.0	<1.0	<1.0	<1.0	<10.0	<2.0	NA*
4-Chlorotoluene	NL	<2.0	<5.0	<2.0	<1.0	<1.0	<1.0	<1.0	<10.0	<2.0	NA*
4-Methyl-2-pentanone (MIBK)	300	<8.0	<20.0	<8.0	<4.0	<4.0	<4.0	<4.0	<40.0	<8.0	NA*
Acetone	700	<50.0	<125	<50.0	<10.0	<10.0	<10.0	12.9	<100	<20.0	NA*
Allyl chloride	30	<8.0	<20.0	<8.0	<4.0	<4.0	<4.0	<4.0	<40.0	<8.0	NA*
Benzene	2	<2.0	<5.0	<2.0	<1.0	<1.0	<1.0	<1.0	<10.0	<2.0	NA*
Bromobenzene	NL	<2.0	<5.0	<2.0	<1.0	<1.0	<1.0	<1.0	<10.0	<2.0	NA*
Bromochloromethane	NL	<2.0	<5.0	<2.0	<1.0	<1.0	<1.0	<1.0	<10.0	<2.0	NA*
Bromodichloromethane	6	<2.0	<5.0	<2.0	<1.0	<1.0	<1.0	<1.0	<10.0	<2.0	NA*
Bromoform	40	<8.0	<20.0	<16.0	<8.0	<8.0	<8.0	<8.0	<80.0	<16.0	NA*
Bromomethane	10	<8.0	<20.0	<8.0	<4.0	<4.0	<4.0	<4.0	<40.0	<8.0	NA*
Carbon tetrachloride	3	<2.0	<5.0	<8.0	<4.0	<4.0	<4.0	<1.0	<40.0	<2.0	NA*
Chlorobenzene	100	<2.0	<5.0	<2.0	<1.0	<1.0	<1.0	<1.0	<10.0	<2.0	NA*
Chloroethane	300	<2.0	<5.0	<2.0	<1.0	<1.0	<1.0	<1.0	<10.0	<2.0	NA*
Chloroform	30	<2.0	<5.0	<2.0	<1.0	<1.0	<1.0	<1.0	<10.0	<2.0	NA*
Chloromethane	NL	<8.0	<20.0	<8.0	<4.0	<4.0	<4.0	<4.0	<40.0	<8.0	NA*
cis-1,2-Dichloroethene	50	<2.0	<5.0	<2.0	<1.0	<1.0	<1.0	<1.0	<10.0	<2.0	<100
cis-1,3-Dichloropropene	NL	<8.0	<20.0	<8.0	<4.0	<4.0	<4.0	<4.0	<40.0	<8.0	NA*
Dibromochloromethane	10	<2.0	<5.0	<2.0	<1.0	<1.0	<1.0	<1.0	<10.0	<2.0	NA*
Dibromomethane	NL	<8.0	<20.0	<8.0	<4.0	<4.0	<4.0	<1.0	<10.0	<2.0	NA*
Dichlorodifluoromethane	1000	<2.0	<5.0	<2.0	<1.0	<1.0	<1.0	<1.0	<10.0	<2.0	NA*
Dichlorofluoromethane	NL	<2.0	<5.0	<2.0	<1.0	<1.0	<1.0	<1.0	<10.0	<2.0	NA*
Diethyl ether (Ethyl ether)	1000	<8.0	<20.0	<8.0	<4.0	<4.0	<4.0	<4.0	<40.0	<8.0	NA*
Ethylbenzene	700	<2.0	<5.0	<2.0	<1.0	<1.0	<1.0	<1.0	<10.0	<2.0	NA*
Hexachloro-1,3-butadiene	1	<10.0	<25.0	<8.0	<4.0	<4.0	<4.0	<4.0	<40.0	<8.0	NA*
Isopropylbenzene (Cumene)	300	<2.0	<5.0	<2.0	<1.0	<1.0	<1.0	<1.0	<10.0	<2.0	NA*
m&p-Xylene	NL	<4.0	<10.0	<4.0	<2.0	<2.0	<2.0	<2.0	<20.0	<4.0	NA*
Methylene Chloride	5	<8.0	<20.0	<8.0	<4.0	<4.0	<4.0	<4.0	<40.0	<8.0	NA*
Methyl-tert-butyl ether	70	<2.0	<5.0	<2.0	<1.0	<1.0	<1.0	<1.0	<10.0	<2.0	NA*
Naphthalene	300	<8.0	<20.0	<8.0	<4.0	<4.0	<4.0	<4.0	<40.0	<8.0	NA*
n-Butylbenzene	NL	<2.0	<5.0	<2.0	<1.0	<1.0	<1.0	<1.0	<10.0	<2.0	NA*
n-Propylbenzene	NL	<2.0	<5.0	<2.0	<1.0	<1.0	<1.0	<1.0	<10.0	<2.0	NA*
o-Xylene	NL	<2.0	<5.0	<2.0	<1.0	<1.0	<1.0	<1.0	<10.0	<2.0	NA*
p-Isopropyltoluene	NL	<2.0	<5.0	<2.0	<1.0	<1.0	<1.0	<1.0	<10.0	<2.0	NA*
sec-Butylbenzene	NL	<2.0	<5.0	<2.0	<1.0	<1.0	<1.0	<1.0	<10.0	<2.0	NA*
Styrene	NL	<2.0	<5.0	<2.0	<1.0	<1.0	<1.0	<1.0	<10.0	<2.0	NA*
tert-Butylbenzene	NL	<2.0	<5.0	<2.0	<1.0	<1.0	<1.0	<1.0	<10.0	<2.0	NA*
Tetrachloroethene	5	700	698	415	262	131	66.9	90.3	1,480	1,850	14,200
Tetrahydrofuran	100	<20.0	<50.0	<20.0	<10.0	<10.0	<10.0	18.4	<100	46.1	NA*
Toluene	1000	<2.0	<5.0	<2.0	<1.0	<1.0	<1.0	<1.0	<10.0	<2.0	NA*
trans-1,2-Dichloroethene	100	<8.0	<20.0	<2.0	<1.0	<1.0	<1.0	<1.0	<10.0	<2.0	<100
trans-1,3-Dichloropropene	NL	<8.0	<20.0	<8.0	<4.0	<4.0	<4.0	<4.0	<40.0	<8.0	NA*
Trichloroethene	5	<2.0	<5.0	<2.0	<1.0	<1.0	<1.0	<1.0	<10.0	<2.0	<100
Trichlorofluoromethane	2000	<2.0	<5.0	<2.0	<1.0	<1.0	<1.0	<1.0	<10.0	<2.0	NA*
Vinyl chloride	0.2	<0.80	<2.0	<0.80	<0.40	<0.40	<0.40	<0.40	<4.0	<0.80	<40.0
Xylene (Total)	10000	<6.0	<15.0	<6.0	<3.0	<3.0	<3.0	<3.0	<30.0	<6.0	NA*

Notes:

NL: No Limit

NA*: Not Analyzed

1,620 Parameter detected above laboratory reporting limit

5.2 Parameter detected above MDH Health Risk Limit

TABLE 10

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

Sample ID	MDH Health Risk Limits 5/09	MW-14 08/28/11	MW-14 05/19/11	MW-14 03/01/11	MW-14 11/18/10	MW-14 08/18/10	MW-14 05/12/10	MW-14 02/23/10	MW-14 11/16/09	MW-14 10/01/09	MW-14 12/03/08
1,1,1,2-Tetrachloroethane	70	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
1,1,1-Trichloroethane	9000	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
1,1,2,2-Tetrachloroethane	2	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
1,1,2-Trichloroethane	3	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
1,1,2-Trichlorotrifluoroethane	200000	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	1.1	<1.0	NA*
1,1-Dichloroethane	70	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
1,1-Dichloroethene	6	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1-Dichloropropene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
1,2,3-Trichlorobenzene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
1,2,3-Trichloropropane	40	<4.0	<4.0	<4.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
1,2,4-Trichlorobenzene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
1,2,4-Trimethylbenzene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
1,2-Dibromo-3-chloropropane	NL	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	NA*
1,2-Dibromoethane (EDB)	.004	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
1,2-Dichlorobenzene	600	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
1,2-Dichloroethane	4	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
1,2-Dichloropropene	5	<4.0	<4.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
1,3,5-Trimethylbenzene	100	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
1,3-Dichlorobenzene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
1,3-Dichloropropane	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
1,4-Dichlorobenzene	10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
2,2-Dichloropropane	NL	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<1.0	<4.0	<1.0	NA*
2-Butanone (MEK)	4000	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	NA*
2-Chlorotoluene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
4-Chlorotoluene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
4-Methyl-2-pentanone (MIBK)	300	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	NA*
Acetone	700	<25.0	<25.0	<25.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	NA*
Allyl chloride	30	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	NA*
Benzene	2	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
Bromobenzene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
Bromochloromethane	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
Bromodichloromethane	6	<1.0	<1.0	<1.0	<1.0	<1.0	1.1	<1.0	<1.0	<1.0	NA*
Bromoform	40	<4.0	<4.0	<8.0	<8.0	<8.0	<8.0	<8.0	<8.0	<8.0	NA*
Bromomethane	10	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	NA*
Carbon tetrachloride	3	<1.0	<1.0	<4.0	<4.0	<4.0	<4.0	<1.0	<4.0	<1.0	NA*
Chlorobenzene	100	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
Chloroethane	300	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
Chloroform	30	1.6	1.9	2.3	3.5	3.0	4.1	3.2	2.7	3.7	NA*
Chloromethane	NL	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	14.2	<4.0	<4.0	NA*
cis-1,2-Dichloroethene	50	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
cis-1,3-Dichloropropene	NL	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	NA*
Dibromochloromethane	10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
Dibromomethane	NL	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<1.0	<1.0	<1.0	NA*
Dichlorodifluoromethane	1000	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
Dichlorofluoromethane	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
Diethyl ether (Ethyl ether)	1000	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	NA*
Ethylbenzene	700	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
Hexachloro-1,3-butadiene	1	<5.0	<5.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	NA*
Isopropylbenzene (Cumene)	300	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
m&p-Xylene	NL	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	NA*
Methylene Chloride	5	<4.0	<4.0	7.2	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	NA*
Methyl-tert-butyl ether	70	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
Naphthalene	300	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	NA*
n-Butylbenzene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
n-Propylbenzene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
o-Xylene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
p-Isopropyltoluene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
sec-Butylbenzene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
Styrene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
tert-Butylbenzene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
Tetrachloroethene	5	1.5	5.0	4.8	6.6	1.8	3.1	3.0	7.1	4.2	30.6
Tetrahydrofuran	100	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	NA*
Toluene	1000	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
trans-1,2-Dichloroethene	100	<4.0	<4.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
trans-1,3-Dichloropropene	NL	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	NA*
Trichloroethene	5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Trichlorofluoromethane	2000	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
Vinyl chloride	0.2	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40
Xylene (Total)	10000	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	NA*

Notes:

NL: No Limit

NA*: Not Analyzed

1.620 Parameter detected above laboratory reporting limit

5.2 Parameter detected above MDH Health Risk Limit

TABLE 10

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

Sample ID	MDH Health Risk Limits 5/09	MW-15 08/28/11	MW-15 05/19/11	MW-15 03/01/11	MW-15 11/18/10	MW-15 08/18/10	MW-15 05/12/10	MW-15 02/22/10	MW-15 11/16/09	MW-15 10/01/09	MW-15 12/10/08
1,1,1,2-Tetrachloroethane	70	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
1,1,1-Trichloroethane	9000	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
1,1,2,2-Tetrachloroethane	2	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
1,1,2-Trichloroethane	3	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
1,1,2-Trichlorotrifluoroethane	200000	1.1	<1.0	<1.0	2.0	<1.0	1.5	3.3	6.4	6.4	NA*
1,1-Dichloroethane	70	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
1,1-Dichloroethene	6	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1-Dichloropropene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
1,2,3-Trichlorobenzene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
1,2,3-Trichloropropane	40	<4.0	<4.0	<4.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
1,2,4-Trichlorobenzene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
1,2,4-Trimethylbenzene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
1,2-Dibromo-3-chloropropane	NL	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	NA*
1,2-Dibromoethane (EDB)	.004	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
1,2-Dichlorobenzene	600	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
1,2-Dichloroethane	4	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
1,2-Dichloropropene	5	<4.0	<4.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
1,3,5-Trimethylbenzene	100	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
1,3-Dichlorobenzene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
1,3-Dichloropropane	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
1,4-Dichlorobenzene	10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
2,2-Dichloropropane	NL	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<1.0	<4.0	<1.0	NA*
2-Butanone (MEK)	4000	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	5.1	<4.0	NA*
2-Chlorotoluene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
4-Chlorotoluene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
4-Methyl-2-pentanone (MIBK)	300	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	NA*
Acetone	700	<25.0	<25.0	<25.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	NA*
Allyl chloride	30	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	NA*
Benzene	2	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
Bromobenzene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
Bromochloromethane	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
Bromodichloromethane	6	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
Bromoform	40	<4.0	<4.0	<8.0	<8.0	<8.0	<8.0	<8.0	<8.0	<8.0	NA*
Bromomethane	10	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	NA*
Carbon tetrachloride	3	<1.0	<1.0	<4.0	<4.0	<4.0	<4.0	<1.0	<4.0	<1.0	NA*
Chlorobenzene	100	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
Chloroethane	300	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
Chloroform	30	1.0	2.8	1.2	1.8	<1.0	1.3	1.4	2.2	2.2	NA*
Chloromethane	NL	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	NA*
cis-1,2-Dichloroethene	50	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
cis-1,3-Dichloropropene	NL	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	NA*
Dibromochloromethane	10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
Dibromomethane	NL	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<1.0	<1.0	<1.0	NA*
Dichlorodifluoromethane	1000	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
Dichlorofluoromethane	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
Diethyl ether (Ethyl ether)	1000	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	NA*
Ethylbenzene	700	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
Hexachloro-1,3-butadiene	1	<5.0	<5.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	NA*
Isopropylbenzene (Cumene)	300	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
m&p-Xylene	NL	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	NA*
Methylene Chloride	5	<4.0	<4.0	6.4	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	NA*
Methyl-tert-butyl ether	70	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
Naphthalene	300	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	NA*
n-Butylbenzene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
n-Propylbenzene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
o-Xylene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
p-Isopropyltoluene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
sec-Butylbenzene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
Styrene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
tert-Butylbenzene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
Tetrachloroethene	5	1.2	<1.0	<1.0	3.3	1.3	2.8	5.7	9.5	15.7	104
Tetrahydrofuran	100	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	NA*
Toluene	1000	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
trans-1,2-Dichloroethene	100	<4.0	<4.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
trans-1,3-Dichloropropene	NL	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	NA*
Trichloroethene	5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Trichlorofluoromethane	2000	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
Vinyl chloride	0.2	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40
Xylene (Total)	10000	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	NA*

Notes:

NL: No Limit

NA*: Not Analyzed

1.620 Parameter detected above laboratory reporting limit

5.2 Parameter detected above MDH Health Risk Limit

TABLE 10

GROUNDWATER ANALYTICAL RESULTS (ug/L)

MN Bio Business Center

221 1st Avenue SW

Rochester, Minnesota

Sample ID	MDH Health Risk Limits 5/09	MW-16	MW-16	MW-16	MW-16	MW-16	MW-16	MW-16	MW-16	MW-16	MW-16
		08/28/11	05/19/11	03/01/11	11/18/10	08/18/10	05/12/10	02/22/10	11/16/09	10/01/09	12/03/08
1,1,1,2-Tetrachloroethane	70	<2.0	<2.0	<2.0	<5.0	<5.0	<10.0	<50.0	<250	<10.0	NA*
1,1,1-Trichloroethane	9000	<2.0	<2.0	<2.0	<5.0	<5.0	<10.0	<50.0	<250	<10.0	NA*
1,1,2,2-Tetrachloroethane	2	<2.0	<2.0	<2.0	<5.0	<5.0	<10.0	<50.0	<250	<10.0	NA*
1,1,2-Trichloroethane	3	<2.0	<2.0	<2.0	<5.0	<5.0	<10.0	<50.0	<250	<10.0	NA*
1,1,2-Trichlorotrifluoroethane	200000	19.7	43.6	23.0	127	63.8	39.3	261	1,390	779	NA*
1,1-Dichloroethane	70	<2.0	<2.0	<2.0	<5.0	<5.0	<10.0	<50.0	<250	<10.0	NA*
1,1-Dichloroethene	6	<2.0	<2.0	<2.0	<5.0	<5.0	<10.0	<50.0	<250	<10.0	<1.0
1,1-Dichloropropene	NL	<2.0	<2.0	<2.0	<5.0	<5.0	<10.0	<50.0	<250	<10.0	NA*
1,2,3-Trichlorobenzene	NL	<2.0	<2.0	<2.0	<5.0	<5.0	<10.0	<50.0	<250	<10.0	NA*
1,2,3-Trichloropropane	40	<8.0	<8.0	<8.0	<5.0	<5.0	<10.0	<50.0	<250	<10.0	NA*
1,2,4-Trichlorobenzene	NL	<2.0	<2.0	<2.0	<5.0	<5.0	<10.0	<50.0	<250	<10.0	NA*
1,2,4-Trimethylbenzene	NL	<2.0	<2.0	<2.0	<5.0	<5.0	<10.0	<50.0	<250	<10.0	NA*
1,2-Dibromo-3-chloropropane	NL	<8.0	<8.0	<8.0	<20.0	<20.0	<40.0	<200	<1000	<40.0	NA*
1,2-Dibromoethane (EDB)	.004	<2.0	<2.0	<2.0	<5.0	<5.0	<10.0	<50.0	<250	<10.0	NA*
1,2-Dichlorobenzene	600	<2.0	<2.0	<2.0	<5.0	<5.0	<10.0	<50.0	<250	<10.0	NA*
1,2-Dichloroethane	4	<2.0	<2.0	<2.0	<5.0	<5.0	<10.0	<50.0	<250	<10.0	NA*
1,2-Dichloropropane	5	<8.0	<8.0	<2.0	<5.0	<5.0	<10.0	<50.0	<250	<10.0	NA*
1,3,5-Trimethylbenzene	100	<2.0	<2.0	<2.0	<5.0	<5.0	<10.0	<50.0	<250	<10.0	NA*
1,3-Dichlorobenzene	NL	<2.0	<2.0	<2.0	<5.0	<5.0	<10.0	<50.0	<250	<10.0	NA*
1,3-Dichloropropane	NL	<2.0	<2.0	<2.0	<5.0	<5.0	<10.0	<50.0	<250	<10.0	NA*
1,4-Dichlorobenzene	10	<2.0	<2.0	<2.0	<5.0	<5.0	<10.0	<50.0	<250	<10.0	NA*
2,2-Dichloropropane	NL	<8.0	<8.0	<8.0	<20.0	<20.0	<40.0	<200	<1000	<10.0	NA*
2-Butanone (MEK)	4000	<8.0	<8.0	<8.0	<20.0	<20.0	<40.0	<200	<1000	<40.0	NA*
2-Chlorotoluene	NL	<2.0	<2.0	<2.0	<5.0	<5.0	<10.0	<50.0	<250	<10.0	NA*
4-Chlorotoluene	NL	<2.0	<2.0	<2.0	<5.0	<5.0	<10.0	<50.0	<250	<10.0	NA*
4-Methyl-2-pentanone (MIBK)	300	<8.0	<8.0	<8.0	<20.0	<20.0	<40.0	<200	<1000	<40.0	NA*
Acetone	700	<50.0	<50.0	<50.0	<50.0	<50.0	<100	<500	<2500	<100	NA*
Allyl chloride	30	<8.0	<8.0	<8.0	<20.0	<20.0	<40.0	<200	<1000	<40.0	NA*
Benzene	2	<2.0	<2.0	<2.0	<5.0	<5.0	<10.0	<50.0	<250	<10.0	NA*
Bromobenzene	NL	<2.0	<2.0	<2.0	<5.0	<5.0	<10.0	<50.0	<250	<10.0	NA*
Bromochloromethane	NL	<2.0	<2.0	<2.0	<5.0	<5.0	<10.0	<50.0	<250	<10.0	NA*
Bromodichloromethane	6	<2.0	<2.0	<2.0	<5.0	<5.0	<10.0	<50.0	<250	<10.0	NA*
Bromoform	40	<8.0	<8.0	<16.0	<40.0	<40.0	<80.0	<400	<2000	<80.0	NA*
Bromomethane	10	<8.0	<8.0	<20.0	<20.0	<20.0	<40.0	<200	<1000	<40.0	NA*
Carbon tetrachloride	3	<2.0	<2.0	<8.0	<20.0	<20.0	<40.0	<200	<1000	<10.0	NA*
Chlorobenzene	100	<2.0	<2.0	<2.0	<5.0	<5.0	<10.0	<50.0	<250	<10.0	NA*
Chloroethane	300	<2.0	<2.0	<2.0	<5.0	<5.0	<10.0	<50.0	<250	<10.0	NA*
Chloroform	30	<2.0	<2.0	<2.0	<5.0	<5.0	<10.0	<50.0	<250	<10.0	NA*
Chloromethane	NL	<8.0	<8.0	<8.0	<20.0	<20.0	<40.0	<200	<1000	<40.0	NA*
cis-1,2-Dichloroethene	50	7.3	4.1	2.6	12.6	<2.0	<10.0	<50.0	<250	24.0	133
cis-1,3-Dichloropropene	NL	<8.0	<8.0	<8.0	<20.0	<20.0	<40.0	<200	<1000	<40.0	NA*
Dibromochloromethane	10	<2.0	<2.0	<2.0	<5.0	<5.0	<10.0	<50.0	<250	<10.0	NA*
Dibromomethane	NL	<8.0	<8.0	<8.0	<20.0	<20.0	<40.0	<200	<250	<10.0	NA*
Dichlorodifluoromethane	1000	<2.0	<2.0	<2.0	<5.0	<5.0	<10.0	<50.0	<250	<10.0	NA*
Dichlorofluoromethane	NL	<2.0	<2.0	<2.0	<5.0	<5.0	<10.0	<50.0	<250	<10.0	NA*
Diethyl ether (Ethyl ether)	1000	<8.0	<8.0	<8.0	<20.0	<20.0	<40.0	<200	<1000	<40.0	NA*
Ethylbenzene	700	<2.0	<2.0	<2.0	<5.0	<5.0	<10.0	<50.0	<250	<10.0	NA*
Hexachloro-1,3-butadiene	1	<10.0	<10.0	<8.0	<20.0	<20.0	<40.0	<200	<1000	<40.0	NA*
Isopropylbenzene (Cumene)	300	<2.0	<2.0	<2.0	<5.0	<5.0	<10.0	<50.0	<250	<10.0	NA*
m&p-Xylene	NL	<4.0	<4.0	<4.0	<10.0	<10.0	<20.0	<100	<500	<20.0	NA*
Methylene Chloride	5	<8.0	<8.0	<8.0	<20.0	<20.0	<40.0	<200	<1000	<40.0	NA*
Methyl-tert-butyl ether	70	<2.0	<2.0	<2.0	<5.0	<5.0	<10.0	<50.0	<250	<10.0	NA*
Naphthalene	300	<8.0	<8.0	<8.0	<20.0	<20.0	<40.0	<200	<1000	<40.0	NA*
n-Butylbenzene	NL	<2.0	<2.0	<2.0	<5.0	<5.0	<10.0	<50.0	<250	<10.0	NA*
n-Propylbenzene	NL	<2.0	<2.0	<2.0	<5.0	<5.0	<10.0	<50.0	<250	<10.0	NA*
o-Xylene	NL	<2.0	<2.0	<2.0	<5.0	<5.0	<10.0	<50.0	<250	<10.0	NA*
p-Isopropyltoluene	NL	<2.0	<2.0	<2.0	<5.0	<5.0	<10.0	<50.0	<250	<10.0	NA*
sec-Butylbenzene	NL	<2.0	<2.0	<2.0	<5.0	<5.0	<10.0	<50.0	<250	<10.0	NA*
Styrene	NL	<2.0	<2.0	<2.0	<5.0	<5.0	<10.0	<50.0	<250	<10.0	NA*
tert-Butylbenzene	NL	<2.0	<2.0	<2.0	<5.0	<5.0	<10.0	<50.0	<250	<10.0	NA*
Tetrachloroethene	5	590	1310	322	2120	696	815	4,390	21,000	6,890	14,100
Tetrahydrofuran	100	<20.0	<20.0	<20.0	<50.0	<50.0	<100	<500	<2500	<100	NA*
Toluene	1000	<2.0	<2.0	<2.0	<5.0	<5.0	<10.0	<50.0	<250	<10.0	NA*
trans-1,2-Dichloroethene	100	<8.0	<8.0	<2.0	<5.0	<5.0	<10.0	<50.0	<250	<10.0	<1.0
trans-1,3-Dichloropropene	NL	<8.0	<8.0	<8.0	<20.0	<20.0	<40.0	<200	<1000	<40.0	NA*
Trichloroethene	5	<2.0	2.0	<2.0	<5.0	<5.0	<10.0	<50.0	<250	<10.0	35.0
Trichlorofluoromethane	2000	<2.0	<2.0	<2.0	<5.0	<5.0	<10.0	<50.0	<250	<10.0	NA*
Vinyl chloride	0.2	<0.80	<0.80	<0.80	<2.0	<2.0	<4.0	<20.0	<100	<4.0	<0.40
Xylene (Total)	10000	<6.0	<6.0	<6.0	<15.0	<15.0	<30.0	<150	<750	<30.0	NA*

Notes:

NL: No Limit

NA*: Not Analyzed

1,620 Parameter detected above laboratory reporting limit

5.2 Parameter detected above MDH Health Risk Limit

TABLE 10

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

Sample ID	MDH Health Risk Limits 5/09	MW-17 08/28/11	MW-17 05/19/11	MW-17 03/01/11	MW-17 11/18/10	MW-17 08/18/10	MW-17 05/12/10	MW-17 02/22/10	MW-17 11/16/09	MW-17 10/01/09	MW-17 12/03/08
1,1,1,2-Tetrachloroethane	70	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<5.0	<5.0	<2.0	NA*
1,1,1-Trichloroethane	9000	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<5.0	<5.0	<2.0	NA*
1,1,2,2-Tetrachloroethane	2	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<5.0	<5.0	<2.0	NA*
1,1,2-Trichloroethane	3	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<5.0	<5.0	<2.0	NA*
1,1,2-Trichlorotrifluoroethane	200000	6.5	15.8	21.6	25.1	25.4	46.8	76.2	199	249	NA*
1,1-Dichloroethane	70	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<5.0	<5.0	<2.0	NA*
1,1-Dichloroethene	6	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<5.0	<5.0	<2.0	<5.0
1,1-Dichloropropene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<5.0	<5.0	<2.0	NA*
1,2,3-Trichlorobenzene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<5.0	<5.0	<2.0	NA*
1,2,3-Trichloropropane	40	<4.0	<4.0	<4.0	<1.0	<1.0	<5.0	<5.0	<5.0	<2.0	NA*
1,2,4-Trichlorobenzene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<5.0	<5.0	<2.0	NA*
1,2,4-Trimethylbenzene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<5.0	<5.0	<2.0	NA*
1,2-Dibromo-3-chloropropane	NL	<4.0	<4.0	<4.0	<4.0	<4.0	<20.0	<20.0	<20.0	<8.0	NA*
1,2-Dibromoethane (EDB)	.004	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<5.0	<5.0	<2.0	NA*
1,2-Dichlorobenzene	600	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<5.0	<5.0	<2.0	NA*
1,2-Dichloroethane	4	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<5.0	<5.0	<2.0	NA*
1,2-Dichloropropane	5	<4.0	<4.0	<1.0	<1.0	<1.0	<5.0	<5.0	<5.0	<2.0	NA*
1,3,5-Trimethylbenzene	100	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<5.0	<5.0	<2.0	NA*
1,3-Dichlorobenzene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<5.0	<5.0	<2.0	NA*
1,3-Dichloropropane	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<5.0	<5.0	<2.0	NA*
1,4-Dichlorobenzene	10	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<5.0	<5.0	<2.0	NA*
2,2-Dichloropropane	NL	<4.0	<4.0	<4.0	<4.0	<4.0	<20.0	<20.0	<20.0	<2.0	NA*
2-Butanone (MEK)	4000	<4.0	<4.0	<4.0	<4.0	<4.0	<20.0	<20.0	<20.0	<8.0	NA*
2-Chlorotoluene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<5.0	<5.0	<2.0	NA*
4-Chlorotoluene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<5.0	<5.0	<2.0	NA*
4-Methyl-2-pentanone (MIBK)	300	<4.0	<4.0	<4.0	<4.0	<4.0	<20.0	<20.0	<20.0	<8.0	NA*
Acetone	700	<25.0	<25.0	<25.0	<10.0	<10.0	<50.0	<50.0	<50.0	<20.0	NA*
Allyl chloride	30	<4.0	<4.0	<4.0	<4.0	<4.0	<20.0	<20.0	<20.0	<8.0	NA*
Benzene	2	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<5.0	<5.0	<2.0	NA*
Bromobenzene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<5.0	<5.0	<2.0	NA*
Bromochloromethane	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<5.0	<5.0	<2.0	NA*
Bromodichloromethane	6	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<5.0	<5.0	<2.0	NA*
Bromoform	40	<4.0	<4.0	<8.0	<8.0	<8.0	<40.0	<40.0	<40.0	<16.0	NA*
Bromomethane	10	<4.0	<4.0	<10.0	<4.0	<4.0	<20.0	<20.0	<20.0	<8.0	NA*
Carbon tetrachloride	3	<1.0	<1.0	<4.0	<4.0	<4.0	<20.0	<20.0	<20.0	<2.0	NA*
Chlorobenzene	100	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<5.0	<5.0	<2.0	NA*
Chloroethane	300	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<5.0	<5.0	<2.0	NA*
Chloroform	30	<1.0	1.1	1.4	1.8	2.5	<5.0	<5.0	<5.0	2.4	NA*
Chloromethane	NL	<4.0	<4.0	<4.0	<4.0	<4.0	<20.0	<20.0	<20.0	<8.0	NA*
cis-1,2-Dichloroethene	50	1.3	1.0	1.8	2.2	2.4	<5.0	5.4	7.9	4.8	<5.0
cis-1,3-Dichloropropene	NL	<4.0	<4.0	<4.0	<4.0	<4.0	<20.0	<20.0	<20.0	<8.0	NA*
Dibromochloromethane	10	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<5.0	<5.0	<2.0	NA*
Dibromomethane	NL	<4.0	<4.0	<4.0	<4.0	<4.0	<20.0	<20.0	<5.0	<2.0	NA*
Dichlorodifluoromethane	1000	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<5.0	<5.0	<2.0	NA*
Dichlorofluoromethane	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<5.0	<5.0	<2.0	NA*
Diethyl ether (Ethyl ether)	1000	<4.0	<4.0	<4.0	<4.0	<4.0	<20.0	<20.0	<20.0	<8.0	NA*
Ethylbenzene	700	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<5.0	<5.0	<2.0	NA*
Hexachloro-1,3-butadiene	1	<5.0	<5.0	<4.0	<4.0	<4.0	<20.0	<20.0	<20.0	<8.0	NA*
Isopropylbenzene (Cumene)	300	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<5.0	<5.0	<2.0	NA*
m&p-Xylene	NL	<2.0	<2.0	<2.0	<2.0	<2.0	<10.0	<10.0	<10.0	<4.0	NA*
Methylene Chloride	5	<4.0	<4.0	6.1	<4.0	<4.0	<20.0	<20.0	<20.0	<8.0	NA*
Methyl-tert-butyl ether	70	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<5.0	<5.0	<2.0	NA*
Naphthalene	300	<4.0	<4.0	<4.0	<4.0	<4.0	<20.0	<20.0	<20.0	<8.0	NA*
n-Butylbenzene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<5.0	<5.0	<2.0	NA*
n-Propylbenzene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<5.0	<5.0	<2.0	NA*
o-Xylene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<5.0	<5.0	<2.0	NA*
p-Isopropyltoluene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<5.0	<5.0	<2.0	NA*
sec-Butylbenzene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<5.0	<5.0	<2.0	NA*
Styrene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<5.0	<5.0	<2.0	NA*
tert-Butylbenzene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<5.0	<5.0	<2.0	NA*
Tetrachloroethene	5	107	109	145	209	174	412	639	1,100	803	363
Tetrahydrofuran	100	<10.0	<10.0	<10.0	<10.0	<10.0	<50.0	<50.0	<50.0	<20.0	NA*
Toluene	1000	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<5.0	<5.0	<2.0	NA*
trans-1,2-Dichloroethene	100	<4.0	<4.0	<1.0	<1.0	<1.0	<5.0	<5.0	<5.0	<2.0	<5.0
trans-1,3-Dichloropropene	NL	<4.0	<4.0	<4.0	<4.0	<4.0	<20.0	<20.0	<20.0	<8.0	NA*
Trichloroethene	5	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<5.0	<5.0	<2.0	<5.0
Trichlorofluoromethane	2000	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<5.0	<5.0	<2.0	NA*
Vinyl chloride	0.2	<0.40	<0.40	<0.40	<0.40	<0.40	<2.0	<2.0	<2.0	<0.80	<2.0
Xylene (Total)	10000	<3.0	<3.0	<3.0	<3.0	<3.0	<15.0	<15.0	<15.0	<6.0	NA*

Notes:

NL: No Limit

NA*: Not Analyzed

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

TABLE 10

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

Sample ID	MDH Health Risk Limits 5/09	MW-18 08/28/11	MW-18 05/19/11	MW-18 03/01/11	MW-18 11/18/10	MW-18 08/18/10	MW-18 05/12/10	MW-18 02/22/10	MW-18 11/16/09	MW-18 10/01/09	MW-18 12/03/08
1,1,1,2-Tetrachloroethane	70	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
1,1,1-Trichloroethane	9000	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
1,1,2,2-Tetrachloroethane	2	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
1,1,2-Trichloroethane	3	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
1,1,2-Trichlorotrifluoroethane	200000	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	2.0	<1.0	2.7	NA*
1,1-Dichloroethane	70	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
1,1-Dichloroethene	6	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0
1,1-Dichloropropene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
1,2,3-Trichlorobenzene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
1,2,3-Trichloropropane	40	<4.0	<4.0	<4.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
1,2,4-Trichlorobenzene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
1,2,4-Trimethylbenzene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
1,2-Dibromo-3-chloropropane	NL	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	NA*
1,2-Dibromoethane (EDB)	.004	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
1,2-Dichlorobenzene	600	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
1,2-Dichloroethane	4	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
1,2-Dichloropropene	5	<4.0	<4.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
1,3,5-Trimethylbenzene	100	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
1,3-Dichlorobenzene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
1,3-Dichloropropane	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
1,4-Dichlorobenzene	10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
2,2-Dichloropropane	NL	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<1.0	<4.0	<1.0	NA*
2-Butanone (MEK)	4000	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	NA*
2-Chlorotoluene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
4-Chlorotoluene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
4-Methyl-2-pentanone (MIBK)	300	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	NA*
Acetone	700	<25.0	<25.0	<25.0	<10.0	<10.0	<10.0	12.2	<10.0	<10.0	NA*
Allyl chloride	30	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	NA*
Benzene	2	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
Bromobenzene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
Bromochloromethane	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
Bromodichloromethane	6	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
Bromoform	40	<4.0	<4.0	<8.0	<8.0	<8.0	<8.0	<8.0	<8.0	<8.0	NA*
Bromomethane	10	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	NA*
Carbon tetrachloride	3	<1.0	<1.0	<4.0	<4.0	<4.0	<4.0	<1.0	<4.0	<1.0	NA*
Chlorobenzene	100	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
Chloroethane	300	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
Chloroform	30	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
Chloromethane	NL	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	NA*
cis-1,2-Dichloroethene	50	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0
cis-1,3-Dichloropropene	NL	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	NA*
Dibromochloromethane	10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
Dibromomethane	NL	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<1.0	<1.0	<1.0	NA*
Dichlorodifluoromethane	1000	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
Dichlorofluoromethane	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
Diethyl ether (Ethyl ether)	1000	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	NA*
Ethylbenzene	700	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
Hexachloro-1,3-butadiene	1	<5.0	<5.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	NA*
Isopropylbenzene (Cumene)	300	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
m&p-Xylene	NL	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	NA*
Methylene Chloride	5	<4.0	<4.0	7.2	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	NA*
Methyl-tert-butyl ether	70	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
Naphthalene	300	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	NA*
n-Butylbenzene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
n-Propylbenzene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
o-Xylene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
p-Isopropyltoluene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
sec-Butylbenzene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
Styrene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
tert-Butylbenzene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
Tetrachloroethene	5	3.6	3.6	4.8	8.6	8.4	26.0	96.8	130	250	257
Tetrahydrofuran	100	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	NA*
Toluene	1000	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
trans-1,2-Dichloroethene	100	<4.0	<4.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0
trans-1,3-Dichloropropene	NL	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	NA*
Trichloroethene	5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	1.2	2.1	2.6	<2.0
Trichlorofluoromethane	2000	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
Vinyl chloride	0.2	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.80
Xylene (Total)	10000	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	NA*

Notes:

NL: No Limit

NA*: Not Analyzed

1,620 Parameter detected above laboratory reporting limit

5.2 Parameter detected above MDH Health Risk Limit

TABLE 10

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

Sample ID	MDH Health Risk Limits 5/09	MW-19 08/28/11	MW-19 05/19/11	MW-19 03/01/11	MW-19 11/18/10	MW-19 08/18/10	MW-19 05/12/10	MW-19 02/23/10	MW-19 11/16/09	MW-19 09/24/09	MW-19 12/03/08
1,1,1,2-Tetrachloroethane	70	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
1,1,1-Trichloroethane	9000	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
1,1,2,2-Tetrachloroethane	2	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
1,1,2-Trichloroethane	3	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
1,1,2-Trichlorotrifluoroethane	200000	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	1.9	2.4	NA*
1,1-Dichloroethane	70	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
1,1-Dichloroethene	6	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1-Dichloropropene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
1,2,3-Trichlorobenzene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
1,2,3-Trichloropropane	40	<4.0	<4.0	<4.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
1,2,4-Trichlorobenzene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
1,2,4-Trimethylbenzene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
1,2-Dibromo-3-chloropropane	NL	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	NA*
1,2-Dibromoethane (EDB)	.004	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
1,2-Dichlorobenzene	600	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
1,2-Dichloroethane	4	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
1,2-Dichloropropene	5	<4.0	<4.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
1,3,5-Trimethylbenzene	100	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
1,3-Dichlorobenzene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
1,3-Dichloropropane	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
1,4-Dichlorobenzene	10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
2,2-Dichloropropane	NL	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<1.0	<4.0	<1.0	NA*
2-Butanone (MEK)	4000	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	5.5	NA*
2-Chlorotoluene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
4-Chlorotoluene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
4-Methyl-2-pentanone (MIBK)	300	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	NA*
Acetone	700	<25.0	<25.0	<25.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	NA*
Allyl chloride	30	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	NA*
Benzene	2	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
Bromobenzene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
Bromochloromethane	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
Bromodichloromethane	6	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
Bromoform	40	<4.0	<4.0	<8.0	<8.0	<8.0	<8.0	<8.0	<8.0	<8.0	NA*
Bromomethane	10	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	NA*
Carbon tetrachloride	3	<1.0	<1.0	<4.0	<4.0	<4.0	<4.0	<1.0	<4.0	<1.0	NA*
Chlorobenzene	100	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
Chloroethane	300	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
Chloroform	30	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
Chloromethane	NL	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	10.4	<4.0	<4.0	NA*
cis-1,2-Dichloroethene	50	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
cis-1,3-Dichloropropene	NL	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	NA*
Dibromochloromethane	10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
Dibromomethane	NL	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<1.0	<1.0	<1.0	NA*
Dichlorodifluoromethane	1000	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
Dichlorofluoromethane	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
Diethyl ether (Ethyl ether)	1000	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	NA*
Ethylbenzene	700	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
Hexachloro-1,3-butadiene	1	<5.0	<5.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	NA*
Isopropylbenzene (Cumene)	300	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
m&p-Xylene	NL	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	NA*
Methylene Chloride	5	<4.0	<4.0	5.2	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	NA*
Methyl-tert-butyl ether	70	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
Naphthalene	300	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	NA*
n-Butylbenzene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
n-Propylbenzene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
o-Xylene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
p-Isopropyltoluene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
sec-Butylbenzene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
Styrene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
tert-Butylbenzene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
Tetrachloroethene	5	2.9	4.7	4.8	4.8	4.2	7.2	12.9	13.6	17.4	2.4
Tetrahydrofuran	100	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	NA*
Toluene	1000	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
trans-1,2-Dichloroethene	100	<4.0	<4.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
trans-1,3-Dichloropropene	NL	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	NA*
Trichloroethene	5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Trichlorofluoromethane	2000	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
Vinyl chloride	0.2	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40
Xylene (Total)	10000	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	NA*

Notes:

NL: No Limit

NA*: Not Analyzed

1,620 Parameter detected above laboratory reporting limit

5.2 Parameter detected above MDH Health Risk Limit

TABLE 10

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

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

Notes:

NL: No Limit

NA*: Not Analyzed

1,620 Parameter detected above MDH Health Risk Limit

5.2 Parameter detected above MDH Health Risk Limit

TABLE 11

NATURAL ATTENUATION ANALYTICAL RESULTS (ug/L)

MN Bio Business Center
221 First Avenue SW
Rochester, Minnesota

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

Notes:

Bold: Parameter detected
above laboratory reporting
limit

NA*: Not Analyzed

TABLE 11

NATURAL ATTENUATION ANALYTICAL RESULTS (ug/L)

MN Bio Business Center
221 First Avenue SW
Rochester, Minnesota

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

Notes:

Bold: Parameter detected
above laboratory reporting
limit

NA*: Not Analyzed

TABLE 11

NATURAL ATTENUATION ANALYTICAL RESULTS (ug/L)

MN Bio Business Center
221 First Avenue SW
Rochester, Minnesota

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

Notes:

Bold: Parameter detected
above laboratory reporting
limit

NA*: Not Analyzed

TABLE 11

NATURAL ATTENUATION ANALYTICAL RESULTS (ug/L)

MN Bio Business Center
221 First Avenue SW
Rochester, Minnesota

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

Notes:

Bold: Parameter detected
above laboratory reporting
limit

NA*: Not Analyzed

TABLE 12

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

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

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-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
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-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-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

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-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-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-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

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

Notes:

NR - number has exceeded the range of the instrument

Attachments

Attachment A

Attachment A - Table 1

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

Date	Time	Extraction Well	DPE Pump Hours	Hours per Period	Days per Period	Flow Rate				DPE Air Flow (scf)	Pump Inlet Vacuum (in. Hg)	Post-MS-2 Vacuum (in. Hg)	Post-MS-1 Vacuum (in. Hg)	DPE Well/Pre-MS-1 Vacuum (in. Hg)		Pre-Manifold Vacuum (in. Hg)	DPE Well Casing Vacuum (in. H ₂ O)	DPE Pump Outlet Pressure		DPE Pump Outlet Temp. (Deg. F)		DPE Exhaust PID (ppm)	Extraction Well Bleed Valve % Open	DPE Pump Bleed Valve % Open	Comments
						Field (scfm)	Analog (scfm)	Analog (m ³ /s)	Analog (acfm)					Analog	Field			Analog (psi)	Field (in. H ₂ O)	Analog	Field				
6/29/2009	1640	DPE-1	88.0	88.0	NA	25	20.9	0.010	134.3	6,000	25.29	NA	NR	24.95	24.5	24.0	NR	0	0	229	200	NR	0	0	
9/4/2009	805	DPE-1	957.0	869.0	36.2	25	24.3	0.011	109.5	1,208,000	23.32	NA	9.4	9.66	9.8	9.1	86	0.02	0	307	310	34	100	0	DPE Pump Screen plugged
9/4/2009	946	DPE-1	957.0	0.0	0.0	40	36.1	0.017	120.5	1,209,000	21.01	NA	21.0	20.43	21.0	20.0	149	0	0	210	248	>4000	100	0	DPE & AS exhaust sampled
9/4/2009	1135	DPE-1	959.0	2.0	0.1	25	27.3	0.013	117.2	1,212,000	22.99	NA	22.5	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	NR	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	DEP-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	DEP-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

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	

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 ₂ O)	AS Exhaust Pressure (in. H ₂ O)	AS Discharge Pump Pressure (psi)	AS Exhaust PID (ppm)	Comments
9/27/2010	1030	2578	192	18	7	25	ND	
10/18/2010	950	2742	204	24	5	18	ND	
12/22/2010	1200	3049	226	18	9	24	ND	
1/6/2011	800	NR	244	18	7	25	ND	
1/20/2011	800	3524	263	18	6	24	ND	
2/27/2011	1100	3867	288	17	9	26	ND	
3/7/2011	800	3885	289	18	9	25	ND	
3/18/2011	1330	4060	298	17	10	25	ND	
3/23/2011	900	4060	298	17	8	26	ND	
4/22/2011	910	4408	325	18	9	25	ND	
5/3/2011	2100	4540	335	18	NR	25	NR	
5/5/2011	NR	4564	336	18	NR	25	NR	
5/19/2011	600	4734	349	17	11	26	ND	
6/16/2011	1200	5140	374	17	NR	25	25.7	
7/25/2011	900	5575	405	17	8	25	4.3	
8/28/2011	1100	5892	432	16	9	26	0.0	
9/29/2011	1140	6332	455	17	7	25	0.0	
10/18/2011	NR	6398	458	NR	NR	NR	NR	
10/27/2011	800	6524	465	17	9	25	ND	

Notes:

NR: Not recorded.

NP: Not pumping.

ND: Not detected.

Attachment A - Table 4

**DPE Well Casing Vacuum Data (in. H₂O)
MN Bio Business Center
221 1st Avenue SW
Rochester, Minnesota**

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

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-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

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-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

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-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

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-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

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

Attachment A - Table 6

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

Location	Date	Total Well Depth (ft below TOC)	Static Water Level (ft below TOC)	Static Water Column Thickness (ft)	Static Water Volume (gallons)	Operating Depth (ft below TOC)	Operating Water Column Thickness (ft)
DPE-1	23-Oct-09	21.9	14.88	7.02	4.6	21.8	0.1
DPE-1	27-Oct-09	21.9	14.54	7.36	4.8	21.9	0.0
DPE-1	16-Nov-09	21.9	14.45	7.45	4.9	21.9	0.0
DPE-1	17-Dec-09	21.9	15.13	6.77	4.4	21.8	0.1
DPE-1	14-Jan-10	21.9	15.53	6.37	4.2	21.0	0.9
DPE-1	22-Feb-10	21.9	12.22	9.68	6.3	21.9	0
DPE-1	25-Mar-10	21.9	15.72	6.18	4.0	20.9	1
DPE-1	16-Apr-10	21.9	15.88	6.02	3.9	20.34	1.56
DPE-1	12-May-10	21.9	16.48	5.42	3.5	21.8	0.1
DPE-1	17-Jun-10	21.9	16.62	5.28	3.4	NR	NR
DPE-1	18-Aug-10	21.9	16.8	5.1	3.3	22	-0.1
DPE-1	27-Sep-10	21.9	14.6	7.3	4.8	21.87	0.03
DPE-1	18-Nov-10	21.9	14.99	6.91	4.5	NR	NR
DPE-1	22-Dec-10	21.9	15.72	6.18	4.0	21.8	0.1
DPE-1	6-Jan-11	21.9	14.04	7.86	5.1	21.8	0.1
DPE-1	20-Jan-11	21.9	16.8	5.1	3.3	21.9	0
DPE-1	28-Feb-11	21.9	15.33	6.57	4.3	21.98	-0.08
DPE-1	7-Mar-11	21.9	17.27	4.63	3.0	22	-0.1
DPE-1	18-Mar-11	21.9	17.8	4.1	2.7	21.6	0.3
DPE-1	23-Mar-11	21.9	15.92	5.98	3.9	22	-0.1
DPE-1	22-Apr-11	21.9	16.61	5.29	3.5	21.8	0.1
DPE-1	19-May-11	21.9	14.59	7.31	4.8	21.2	0.7
DPE-1	16-Jun-11	21.9	15.12	6.78	4.4	21.84	0.06
DPE-1	25-Jul-11	21.9	14.35	7.55	4.9	21.14	0.76
DPE-1	28-Aug-11	21.9	13.04	8.86	5.8	21.6	0.3
DPE-1	29-Sep-11	21.9	15.89	6.01	3.9	21.89	0.01
DPE-1	18-Oct-11	21.9	14.89	7.01	4.6	21.5	0.4
DPE-1	27-Oct-11	21.9	16.65	5.25	3.4	21.8	0.1
DPE-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

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-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

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-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

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-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

Attachment A - Table 7

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

Maintenance Item	Sep-09	Oct-09	Nov-09	Dec-09	Jan-10	Feb-10	Mar-10	Apr-10	May-10	Jun-10	Jul-10	Aug-10 ¹	Sep-10	Oct-10	Nov-10	Dec-10
DPE Pump Maintenance																
- Inspect Hoses, Piping and Fittings for Oil Leaks - MONTHLY	Sep 4	Oct 15, 16	Nov 16	Dec 17	Jan 14	Feb 22	Mar 9, 25	Apr 16	May 12	Jun 17	Jul 26	Aug 18	Sep 27	Oct 18	Nov 18	Dec 23
- Check Oil Level (level should show at middle of site glass) - MONTHLY	Sep 4	Oct 15, 16	Nov 16	Dec 17	Jan 14	Feb 22	Mar 9, 25	Apr 16	May 12	Jun 17	Jul 26	Aug 18	Sep 27	Oct 18	Nov 18	Dec 23
- Change Oil - MONTHLY							Mar 9						Sep 27			
- Clean Pump Inlet Opening							Mar 9	Apr 16	May 12	Jun 17	Jul 26	Aug 18	Sep 27	NA	NA	NA
- Inspect and Clean Pump Inlet Screen - EACH SITE VISIT	Sep 4	Oct 15, 16	Nov 6, 16, 27	Dec 4, 17, 28	Jan 14, 27	Feb 3, 10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Moisture Separator Maintenance																
- Clean Floats - MONTHLY	Sep 4	Oct 15, 16, 23, 27	Nov 16	Dec 17	Jan 14	Feb 3, 10, 16	Mar 9, 25	Apr 16	May 12	Jun 17	Jul 26	NA	Sep 27	Oct 18	Nov 18	Dec 23
- Check Sediment - MONTHLY		Oct 27	Nov 16	Dec 17	Jan 14	Feb 3, 10, 22	Mar 9, 25	Apr 16	May 12	Jun 17	Jul 26	NA	Sep 27	Oct 18	Nov 18	Dec 23
- Remove Sediment - AS NEEDED		Oct 27	Nov 16			Feb 3, 10, 22			May 12				Sep 27			
- Replace MS#1 Filter (5 micron) - If Pressure Drop Occurs						Feb 26						NA	Sep 27			
- Replace MS#2 Filter (1 micron) - If Pressure Drop Occurs						Feb 26						NA	Sep 27			
- Transfer Pump (Moyno 34401 1 HP) - Inspect Hoses, Piping and Fittings for Water Leaks - MONTHLY	Sep 4	Oct 15, 16	Nov 16	Dec 17	Jan 14	Feb 22	Mar 9	Apr 16	May 12	Jun 17	Jul 26	NA	Sep 27	Oct 18	Nov 18	Dec 23
- Replace Transfer Pump Stator - SEMI-ANNUALLY						Feb 16						Aug 18	Sep 27			
Air Stripper Maintenance																
- Clean Air Stripper - ANNUALLY OR AS NEEDED							Mar 25	Apr 16	May 12	Jun 17	Jul 26		Sep 27	Oct 18		
- Clean Floats - QUARTERLY						Feb 12			May 12			NA	Sep 27	Oct 18		
- Discharge Pump (Meyers CT10 1 HP) - Inspect Hoses, Piping and Fittings for Water Leaks - MONTHLY	Sep 4	Oct 15, 16	Nov 16	Dec 17	Jan 14	Feb 22	Mar 25	Apr 16	May 12	Jun 17	Jul 26	NA	Sep 27	Oct 18	Nov 18	Dec 23
- Blower (16N4 TBNA 3 HP) - Inspect Hoses, Piping and Fittings for Leaks - MONTHLY	Sep 4	Oct 15, 16	Nov 16	Dec 17	Jan 14	Feb 22	Mar 25	Apr 16	May 12	Jun 17	Jul 26	NA	Sep 27	Oct 18	Nov 18	Dec 23
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	X	X
- 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	X	X
- Change Oil - MONTHLY		Feb 28	Mar 23	Apr, 22	May, 19	Jun 15,	Jul 25	Aug 28	Sep 11	Oct 27	X	X
- Clean Pump Inlet Opening	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
- Inspect and Clean Pump Inlet Screen - EACH SITE VISIT	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Moisture Separator Maintenance												
- Clean Floats - MONTHLY	Jan 6, 20	Feb 28	Mar 7, 18, 23	Apr, 22	May, 19	Jun 15,	Jul 25	Aug 28	Sep 11	Oct 18	X	X
- 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	X	X
- Remove Sediment - AS NEEDED			Mar 7			Jun 15,						
- Replace MS#1 Filter (5 micron) - If Pressure Drop Occurs									Sep 11			
- Replace MS#2 Filter (1 micron) - If Pressure Drop Occurs									Sep 11			
- Transfer Pump (Moyno 34401 1 HP) - Inspect Hoses, Piping and Fittings for Water Leaks - MONTHLY	Jan 6, 20	Feb 28	Mar 7, 18, 23	Apr, 22	May, 19	Jun 15,	Jul 25	Aug 28	Sep 11	Oct 18, 27	X	X
- Replace Transfer Pump Stator - SEMI-ANNUALLY			Mar 18		May, 19		Jul 25	Aug 28		Oct 18		
Air Stripper Maintenance												
- Clean Air Stripper - ANNUALLY OR AS NEEDED	Jan 6, 20		Mar 18	Apr, 22	May, 19		Jul 25			Oct 18		
- Clean Floats - QUARTERLY			Mar 18					Aug 28		Oct 18	X	
- Discharge Pump (Meyers CT10 1 HP) - Inspect Hoses, Piping and Fittings for Water Leaks - MONTHLY	Jan 6, 20	Feb 28	Mar 7, 18	Apr, 22	May, 19	Jun 15,	Jul 25	Aug 28	Sep 11	Oct 18	X	X
- Blower (16N4 TBNA 3 HP) - Inspect Hoses, Piping and Fittings for Leaks - MONTHLY	Jan 6, 20	Feb 28	Mar 7, 18	Apr, 22	May, 19	Jun 15,	Jul 25	Aug 28	Sep 11	Oct 18, 27	X	X
Solenoid 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	X	X
- 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.

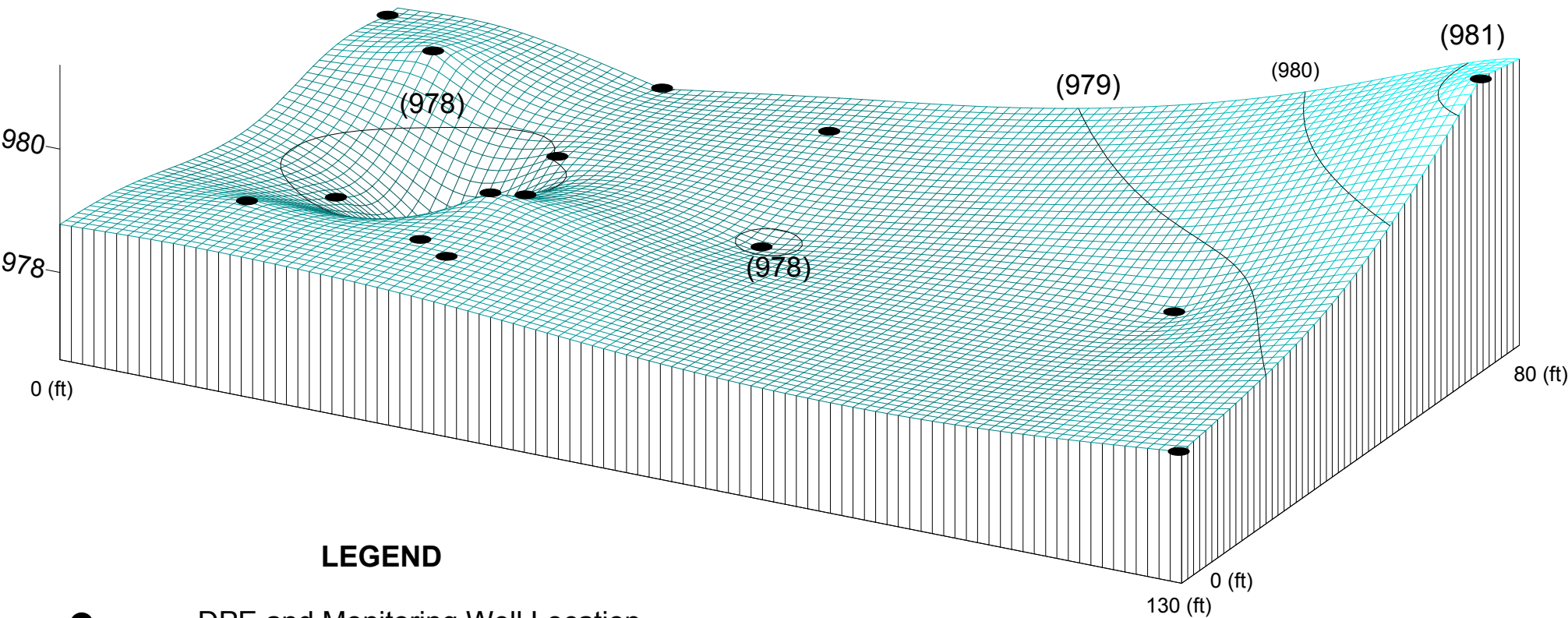
NA: Not applicable

1: Some maintenance was not performed because of DPE pump oil leak.

ATTACHMENT A FIGURE 1A

3D GROUNDWATER FLOW INTERPRETATION July 25, 2011

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



LEGEND

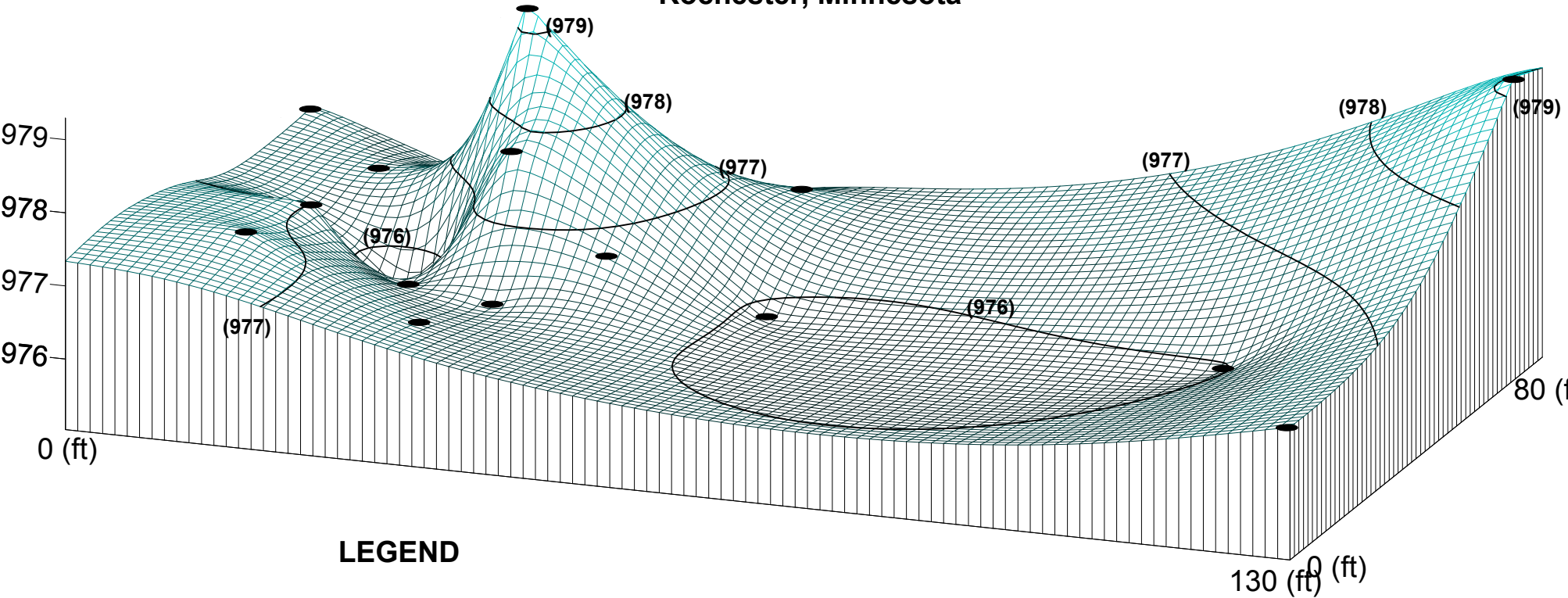
- DPE and Monitoring Well Location
- (976) Groundwater Elevation (feet above mean sea level)



ATTACHMENT A FIGURE 1A

3D GROUNDWATER FLOW INTERPRETATION AUGUST 28, 2011

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



LEGEND

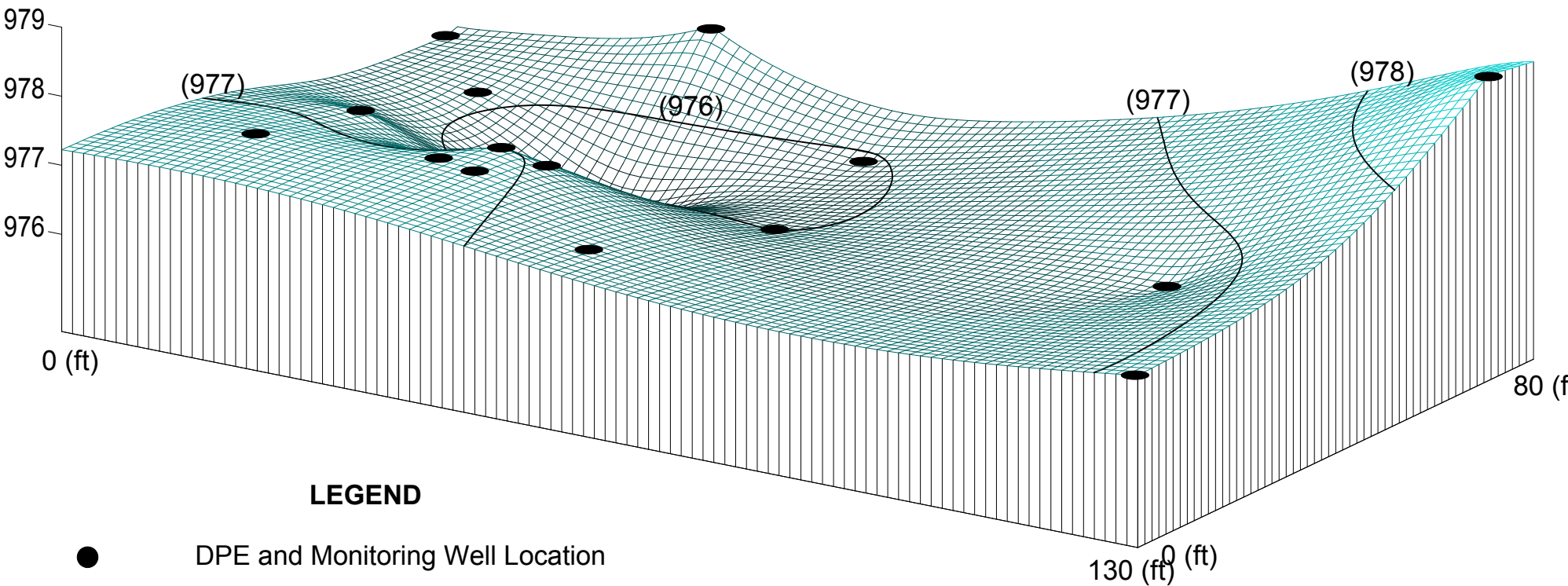
- DPE and Monitoring Well Location
- (976) Groundwater Elevation (feet above mean sea level)



ATTACHMENT A FIGURE 1C

3D GROUNDWATER FLOW INTERPRETATION SEPTEMBER 29, 2011

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



LEGEND



DPE and Monitoring Well Location

(976)

Groundwater Elevation (feet above mean sea level)

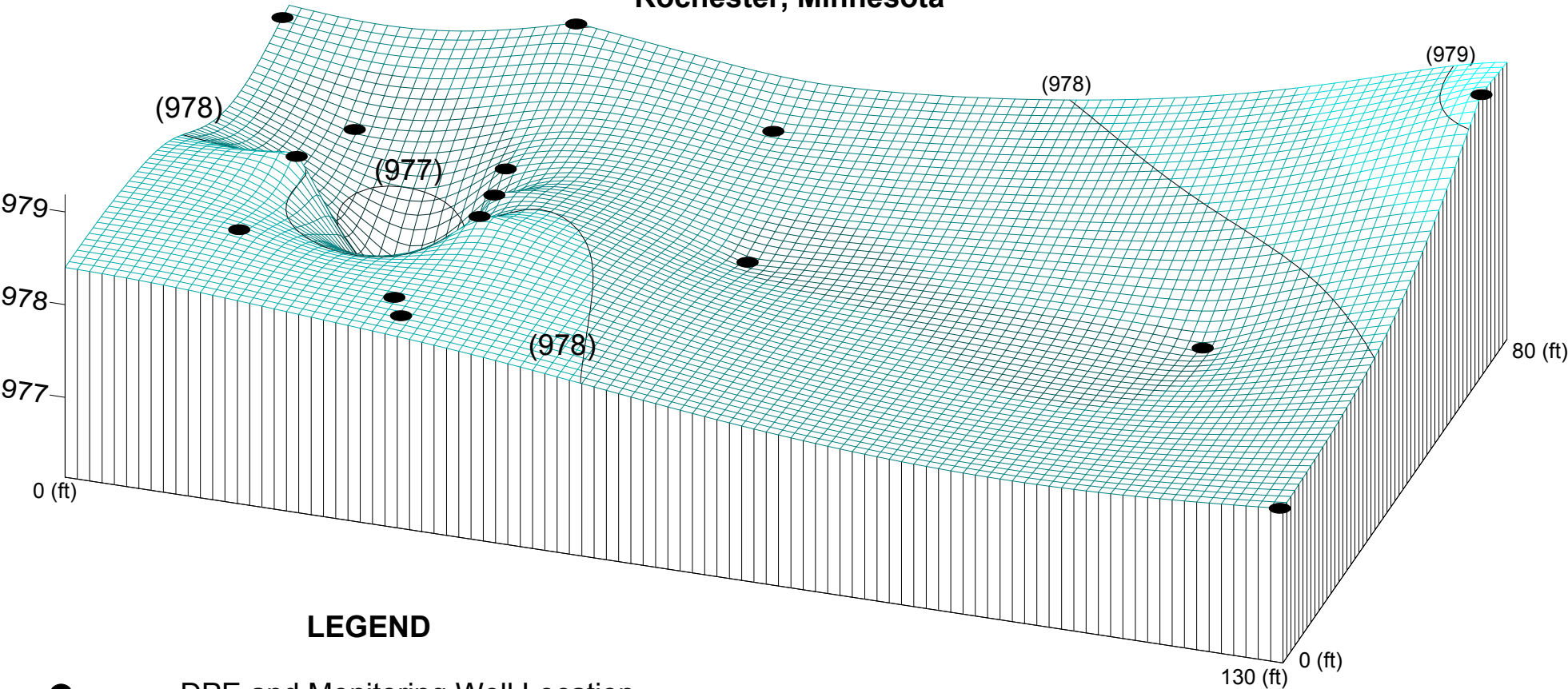
979.5
979
978.5
978
977.5
977
976.5
976
975.5
975
974.5



ATTACHMENT A FIGURE 1D

3D GROUNDWATER FLOW INTERPRETATION OCTOBER 18, 2011

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



LEGEND

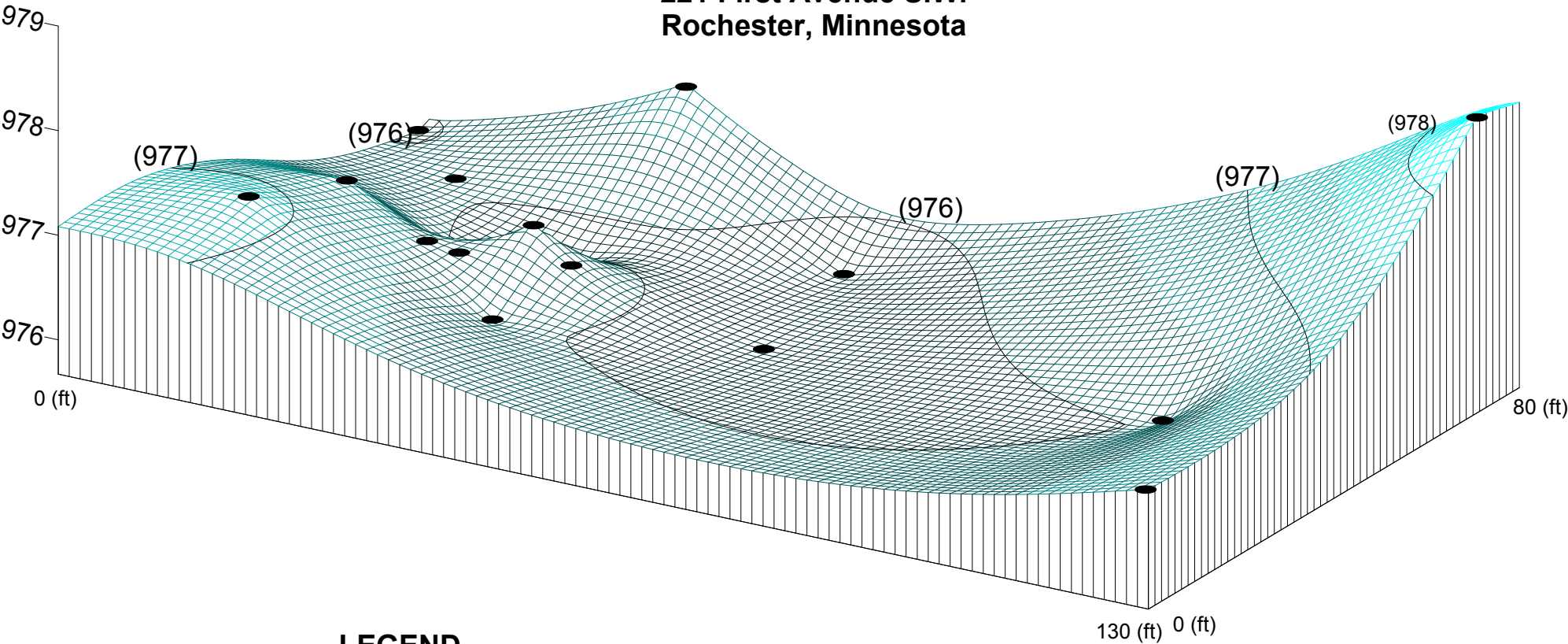
- DPE and Monitoring Well Location
- (976) Groundwater Elevation (feet above mean sea level)



ATTACHMENT A FIGURE 1E

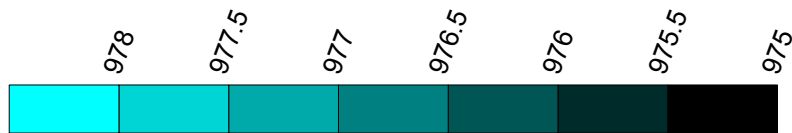
3D GROUNDWATER FLOW INTERPRETATION OCTOBER 27, 2011

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: 7/25/11
 TIME: 09:00
 RECORDED BY: KAB

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): 39
 DPE WELL VACUUM (IN. HG): 21.56
 DPE PUMP INLET VACUUM (IN. HG): 22.53
 DPE PUMP OUTLET PRESSURE (PSI): 0.04
 DPE PUMP OUTLET TEMP (DEG. F): 235.3
 MS PUMP WATER FLOW (GPM): 14.21/11.3

#1

TOTAL PANEL READINGS

DPE VACUUM PUMP (HRS): 14.69
 MS PUMP (HRS): 7.45
 MS VACUUM VALVE (HRS): 17.1
 AIR STRIPPER BLOWER (HRS): 55.75
 AIR STRIPPER PUMP (HRS): 4.05
 DPE AIR FLOW (SCF): 63072000
 MS PUMP WATER FLOW (GAL): 606917
 SUMP PUMP WATER FLOW (GAL): 490

STATIC WATER LEVELS

	Clean to Dirty Ranking	Well Depth below TOC (FT)	Depth to Water below TOC (FT)
MW-14	3	17.5	10.72
MW-15	4	18	13.08
MW-16	10	18	11.31
MW-17	7	25	12.02
MW-18	6	60	13.06
MW-19	1	20	12.42
MW-20	8	16.7	10.13
DPE-1	15	21.9	14.35
DPE-2	13	20.5	14.83
DPE-3	14	17.1	14.11
DPE-4	12	19.3	14.49
DPE-5	9	18.1	13.99
DPE-6	5	19.5	14.64
DPE-7	2	22.2	14.64
DPE-8	11	17.5	14.41
Sump	1	7.74	5.58

FIELD MEASUREMENTS

DPE WELL CASING VACUUM (MM HG): 19.6
 PRE-MANIFOLD VACUUM (IN. HG): 20.5 19.6
 DPE WELL (PRE-MS-1) VACUUM (IN. HG): 20.5
 POST-MS-1 VACUUM (IN. HG): 21.5
 POST-MS-2 VACUUM (IN. HG): 23
 DPE PUMP AIR FLOW (SCFM): 40
 DPE EXHAUST PID CONC. (PPM): 55.1
 DPE PUMP OUTLET PRESSURE (IN. H2O): 0
 DPE PUMP OUTLET TEMP (DEG. F): 225

OPERATING WATER LEVELS

DPE-1	23.08
DPE-2	20.15
DPE-3	19.2 dry
DPE-4	17.7 1
DPE-5	18.50 dry
DPE-6	19.3 dry
DPE-7	21.75
DPE-8	17.6

MS PUMP WATER FLOWRATE (WHILE PUMPING) (GPM): 14.4/11.3
 MS PUMP WATER PRESSURE (WHILE PUMPING) (PSI): 29
 MS PUMP FLOW TOTALIZER READING (GAL): 27605

SUMP ROOM PID: 0.0

BASEMENT PID READINGS: 0.0

AS EXHAUST PRESSURE (IN. H2O): 8
 AS DISCHARGE PUMP PRESSURE (WHILE PUMPING) (PSI): 25
 AS BLOWER PRESSURE (IN. H2O): 17
 AS EXHAUST PID (PPM): 4.3

COMMENTS/MAINTENANCE:

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: 7/25/11
 TIME: 0900
 RECORDED BY: KAP

1.5 quantity
Dico

	PID READINGS	DPE EXHAUST FLOW RATE	DPE PUMP INLET VACUUM	WELL CASING VACUUMS
DPE-1	55.1	35.3	21.53	60
DPE-2	13.5	38.1	21.43	145
DPE-3	23.2	63.2	18.24	125
DPE-4	3.1	56.3	19.04	120
DPE-5	0.2	79.3	15.86	110
DPE-6	2.5	56.3	19.21	105
DPE-7	0.1	60.4	18.95	40
DPE-8	0.5	87.0	15.4	80

59.5 Ave Flow

CAN ~~0317~~ 1571
 Regulator ~~FC0101~~ FC0220
 Start test @ 10:30

7/25/11
 ON # ~~7~~ 7

Start VAC @ CAN -29
 Reversed float "bottom"
 moisture separator -
 Send to work

Suspended test to re-fit SAYOR
 Suspended test to remove sediment from separator

MAINTENANCE CHECKLIST (Revised 4/13/10)

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

7/25/11

Date: _____
 Field Representative: _____

OBSERVATIONS AND/OR DESCRIPTION OF MAINTENANCE

PERFORMED

Check Box

DPE Pump Maintenance

- Inspect Hoses, Piping and Fittings for Oil Leaks - MONTHLY
- Check Oil Level (level should show at middle of site glass) - MONTHLY
- Change Oil - MONTHLY
- Clean Pump Inlet Opening - MONTHLY

<input checked="" type="checkbox"/>	Changed oil - no leaks
<input type="checkbox"/>	
<input checked="" type="checkbox"/>	
<input checked="" type="checkbox"/>	

Moisture Separator Maintenance

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

<input checked="" type="checkbox"/>	Cleaned floats 3xs
<input checked="" type="checkbox"/>	MA
<input type="checkbox"/>	Should do
<input checked="" type="checkbox"/>	

<input checked="" type="checkbox"/>	Replaced
<input checked="" type="checkbox"/>	Cleaned
<input type="checkbox"/>	
<input type="checkbox"/>	

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

<input checked="" type="checkbox"/>	Middle float bed shape
<input checked="" type="checkbox"/>	
<input checked="" type="checkbox"/>	

<input checked="" type="checkbox"/>	
-------------------------------------	--

Solonoid Valve Maintenance

- Inspect - MONTHLY
- Clean - AS NEEDED
- Rebuild - AS NEEDED

<input checked="" type="checkbox"/>	
<input type="checkbox"/>	
<input type="checkbox"/>	

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: 8/28/11
 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): 368.4 7
 DPE WELL VACUUM (IN. HG): 13.71
 DPE PUMP INLET VACUUM (IN. HG): 14.78
 DPE PUMP OUTLET PRESSURE (PSI): 0
 DPE PUMP OUTLET TEMP (DEG. F): 244
 MS PUMP WATER FLOW (GPM): 12.8 → 12.0

TOTAL PANEL READINGS

DPE VACUUM PUMP (HRS): 14962
 MS PUMP (HRS): 875
 MS VACUUM VALVE (HRS): 197
 AIR STRIPPER BLOWER (HRS): 5892
 AIR STRIPPER PUMP (HRS): 432
 DPE AIR FLOW (SCF): 66305000
 MS PUMP WATER FLOW (GAL): 415249
 SUMP PUMP WATER FLOW (GAL): 490

FIELD MEASUREMENTS

DPE WELL CASING VACUUM (MM HG): -49
 PRE-MANIFOLD VACUUM (IN. HG): 18.1
 DPE WELL (PRE-MS-1) VACUUM (IN. HG): 18.0
 POST-MS-1 VACUUM (IN. HG): 17
 POST-MS-2 VACUUM (IN. HG): 19.5
 DPE PUMP AIR FLOW (SCFM): 70
 DPE EXHAUST PID CONC. (PPM): 0.0
 DPE PUMP OUTLET PRESSURE (IN. H2O): 0
 DPE PUMP OUTLET TEMP (DEG. F): 225

MS PUMP WATER FLOWRATE (WHILE PUMPING) (GPM): 12.9
 MS PUMP WATER PRESSURE (WHILE PUMPING) (PSI): 4 → 14
 MS PUMP FLOW TOTALIZER READING (GAL): 63442

AS EXHAUST PRESSURE (IN. H2O): 9.0
 AS DISCHARGE PUMP PRESSURE (WHILE PUMPING) (PSI): 78
 AS BLOWER PRESSURE (IN. H2O): 16
 AS EXHAUST PID (PPM): 0.0

ELEVATOR DRAIN TILE SUMP FLOW TOTALIZER (GAL):

STATIC WATER LEVELS

	Clean to Dirty Ranking	Well Depth below TOC (FT)	Depth to Water below TOC (FT)
MW-14	3	17.5	12.11
MW-15	4	18	14.76
MW-16	10	18	12.59
MW-17	7	25	13.41
MW-18	6	60	14.52
MW-19	1	20	14.29
MW-20	8	16.7	12.32
DPE-1	15	21.9	13.04
DPE-2	13	20.5	17.81
DPE-3	14	17.1	15.88
DPE-4	12	19.3	16.58
DPE-5	9	18.1	16.28
DPE-6	5	19.5	15.38
DPE-7	2	22.2	16.96
DPE-8	11	17.5	16.91
Sump	1	7.74	6.56

OPERATING WATER LEVELS

DPE-1	21.6
DPE-2	20.2
DPE-3	17.3
DPE-4	19.6
DPE-5	18.0
DPE-6	19.5
DPE-7	22.6
DPE-8	17.4

SUMP ROOM PID: ND

BASEMENT PID READINGS: ND

COMMENTS/MAINTENANCE:

Lt out weekend could not see

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: 8/28/11
 TIME:
 RECORDED BY:

	PID READINGS	DPE EXHAUST FLOW RATE	DPE PUMP INLET VACUUM	WELL CASING VACUUMS
DPE-1	27.5	45.5	21.4	-58
DPE-2	10.2	45	21.8	-158
DPE-3	62.8	71	19.4	-130
DPE-4	14.0	63	20.4	-140
DPE-5	0.7	93	17.2	-120
DPE-6	4.8	62	20.6	-100
DPE-7	0.0	67	19.8	-49
DPE-8	0.0	104	15.38	-75

Start can # 8 -30 11:00
 end 17:00 -6

AS IN 12:00

AS out 12:05

MAINTENANCE CHECKLIST (Revised 4/13/10)

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

8/28/11

Date:

Field Representative:

DPE Pump Maintenance

- Inspect Hoses, Piping and Fittings for Oil Leaks - MONTHLY
- Check Oil Level (level should show at middle of site glass) - MONTHLY
- Change Oil - MONTHLY
- Clean Pump Inlet Opening - MONTHLY

Check Box

✓
✓
✓
✓

Moisture Separator Maintenance

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

✓
✓
✓
✓
✓
✓
✓
✓

NA
NA

MIN - good Replkrt d
cleaned

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

✓
✓
✓

Athen acid

Solonoid Valve Maintenance

- Inspect - MONTHLY
- Clean - AS NEEDED
- Rebuild - AS NEEDED

✓
✓
✓

Rebuilt Repl DPE - 1

OBSERVATIONS AND/OR
 DESCRIPTION OF MAINTENANCE
 PERFORMED

Field Information Data Sheet

**Landmark
Environmental, LLC**

Client Name: City of Rochester – Second Quarter Sampling
 Project Name: CRC Project Number: CRC-10
 Location: MW-14 Date: May 19, 2011 8/28/11
 Station: _____ Sample time: 07:30

Casing diameter:	2"	Time/ Volume	Temp °C	Cond @ 25	pH	Eh	D.O.	Turb. NTU
Total well depth:	17.5							
Static water level:	12.11	1.6	19.5	1711	5.59	148	3.21	
Water depth ¹ :	5.39							
Well volume (gal):	0.8							
Purge method:	Whale							
Sample Method:	Butter							
Start time:	 							
Stop time:	 							
Duration (min.):	 	Odor:						
Rate, gpm:	 	Purge appearance:	cloudy					
Volume purged:	1.6	Sample appearance:	cloudy					
Duplicate collected?	NO	Comments:	1.6 gallons dry					
Sampled by:								
Others present:		Well Condition	gd					
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-10
 Location: MW-15 Date: May 19, 2011 8/28/11
 Station: _____ Sample time: 08:30

Casing diameter:	2"	Time/ Volume	Temp °C	Cond @ 25	pH	Eh	D.O.	Turb. NTU
Total well depth:	18							
Static water level:	14.76	1.5	19.9	2051	6.65	121	5.5	
Water depth ¹ :	3.24							
Well volume (gal):	0.5							
Purge method:	Whale							
Sample Method:	Bailer							
Start time:	—							
Stop time:	—							
Duration (min.):	—	Odor:						
Rate, gpm:	—	Purge appearance:	cloudy					
Volume purged:	1.5	Sample appearance:	cloudy					
Duplicate collected?	NO	Comments:	1.5 gallons dry					
Sampled by:								
Others present:		Well Condition	gd					
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-10
 Location: MW-16 Date: ~~May 19, 2011~~ 8/28/11
 Station: _____ Sample time: 09:30

Casing diameter:	2"	Time/ Volume	Temp °C	Cond @ 25	pH	Eh	D.O.	Turb. NTU
Total well depth:	18							
Static water level:	12.59	1.6	19.4	3357	6.96	117	4.16	
Water depth ¹ :	5.41							
Well volume (gal):	0.8							
Purge method:	Wholy							
Sample Method:	Bwh							
Start time:	—							
Stop time:	—							
Duration (min.):	—	Odor:						
Rate, gpm:	—	Purge appearance:	cloudy					
Volume purged:	1.6	Sample appearance:	Cloudy					
Duplicate collected?	NO	Comments:	1.6 gallons dry					
Sampled by:	—							
Others present:				Well Condition	gd			
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-10
 Location: MW-17 Date: ~~May 19, 2011~~ 8/28/11
 Station: 25 Sample time: 10:30

Casing diameter:	2"	Time/ Volume	Temp °C	Cond @ 25	pH	Eh	D.O.	Turb. NTU
Total well depth:	25							
Static water level:	13.41	1.9	19.1	2206	6.96	-1164.1		
Water depth ¹ :	11.52							
Well volume (gal):	1.9							
Purge method:	whale							
Sample Method:	Brill							
Start time:	 							
Stop time:	 							
Duration (min.):	 	Odor:						
Rate, gpm:	 	Purge appearance:	cloudy					
Volume purged:	1.9	Sample appearance:	cloudy					
Duplicate collected?	NO	Comments:	1.9 gallon day					
Sampled by:								
Others present:		Well Condition	Gd					
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-10
 Location: MW-18 Date: ~~May 19, 2011~~ 8/28/11
 Station: _____ Sample time: 11:30

Casing diameter:	2"	Time/ Volume	Temp °C	Cond @ 25	pH	Eh	D.O.	Turb. NTU
Total well depth:	60							
Static water level:	14.52	30	18.9	2149	6.71	+2.7	1.1	
Water depth ¹ :	45.48							
Well volume (gal):	7.6							
Purge method:	whorl							
Sample Method:	Basic							
Start time:	---							
Stop time:	---							
Duration (min.):	---	Odor:						
Rate, gpm:	---	Purge appearance:	cloudy					
Volume purged:	30.5	Sample appearance:	cloudy					
Duplicate collected?	---	Comments:	30 gallons dry					
Sampled by:	---							
Others present:				Well Condition	gd			
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-10
 Location: MW-19 Date: ~~May 19, 2011~~ 8/28/11
 Station: _____ Sample time: 12:30

Casing diameter:	2"	Time/ Volume	Temp °C	Cond @ 25	pH	Eh	D.O.	Turb. NTU
Total well depth:	20							
Static water level:	14.29	1.8	17.4	4618	6.59	47	4.7	
Water depth ¹ :	5.71							
Well volume (gal):	0.9							
Purge method:	whale							
Sample Method:	Backs							
Start time:	—							
Stop time:	—							
Duration (min.):	—	Odor:						
Rate, gpm:	—	Purge appearance:	cloudy					
Volume purged:	1.0	Sample appearance:	cloudy					
Duplicate collected?	No	Comments:	1.8 gallons dry					
Sampled by:	—							
Others present:				Well Condition	Gd			
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-10
 Location: MW-20 Date: ~~May 19, 2011~~ 8/28/11
 Station: _____ Sample time: 13:00

Casing diameter:	2"	Time/ Volume	Temp °C	Cond @ 25	pH	Eh	D.O.	Turb. NTU
Total well depth:	16.7							
Static water level:	12.32		18.7	5102	7.12	+82	6.24	
Water depth ¹ :	4.35							
Well volume (gal):	0.7							
Purge method:	Whale							
Sample Method:	Bottle							
Start time:	///							
Stop time:	///							
Duration (min.):	///	Odor:						
Rate, gpm:	///	Purge appearance:	cloudy					
Volume purged:	///	Sample appearance:	cloudy					
Duplicate collected?	NO	Comments:	1.6L gallons day					
Sampled by:	///							
Others present:					Well Condition	Gd		
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-10
 Location: Multiple Location Date: May 19, 2011 8/28/11
 Station: _____ Sample time: _____

Multiple Sampling Log:	Time/Volume	Temp °C	Cond @ 25	pH	Eh	D.O.	Turb. NTU
Location:							
DPE-1:	13:20	18.2	2162	7.01	43	4.0	
DPE-2:	13:55	18.2	3408	7.04	62	3.6	
DPE-3:	14:20	X	5814	7.61	41	5.3	
DPE-4:	14:55	18.6	3318	7.63	48	5.4	
DPE-5:	15:20	18.6	3219	6.69	44	5.9	
DPE-6:	15:55	18.7	1800	6.82	3	4.6	
DPE-7:	16:20	16.9	1602	7.72	31	7.4	
DPE-8:	17:00	18.7	5345	7.14	20	4.09	
Rate, gpm:							
Volume purged:							
Duplicate collected?							
Sampled by:							
Others present:					Well Condition		
Analysis:	VOC	filtered metal	ml filter	in-line filter	others:		
MW:gw monitoring well WS:water supply well SW:surface water SE:sediment other:							

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

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

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

DATE: 9/29/11
 TIME: 1140
 RECORDED BY: JDS

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 #4
 DPE WELL BLEED VALVE % OPEN: 100
 DPE PUMP BLEED VALVE % OPEN: 0

ANALOG PANEL READINGS
 DPE PUMP AIR FLOW (SCFM): 66
 DPE WELL VACUUM (IN. HG): 19.58
 DPE PUMP INLET VACUUM (IN. HG): 20.36
 DPE PUMP OUTLET PRESSURE (PSI): 0.04
 DPE PUMP OUTLET TEMP (DEG. F): 244.5
 MS PUMP WATER FLOW (GPM): 12.07

TOTAL PANEL READINGS
 DPE VACUUM PUMP (HRS): 15722
 MS PUMP (HRS): 921
 MS VACUUM VALVE (HRS): 198
 AIR STRIPPER BLOWER (HRS): 6332
 AIR STRIPPER PUMP (HRS): 455
 DPE AIR FLOW (SCF): 69249000
 MS PUMP WATER FLOW (GAL): 940673352
 SUMP PUMP WATER FLOW (GAL): 490

FIELD MEASUREMENTS
 DPE WELL CASING VACUUM (MM HG): 130
 PRE-MANIFOLD VACUUM (IN. HG): 16.5
 DPE WELL (PRE-MS-1) VACUUM (IN. HG): 18
 POST-MS-1 VACUUM (IN. HG): 17
 POST-MS-2 VACUUM (IN. HG): 20
 DPE PUMP AIR FLOW (SCFM): 65
 DPE EXHAUST PID CONC. (PPM): 2.8
 DPE PUMP OUTLET PRESSURE (IN. H2O): 0 Broken
 DPE PUMP OUTLET TEMP (DEG. F): 225

MS PUMP WATER FLOWRATE (WHILE PUMPING) (GPM): 12.5
 MS PUMP WATER PRESSURE (WHILE PUMPING) (PSI): 15
 MS PUMP FLOW TOTALIZER READING (GAL): 94232 @ 1140

AS EXHAUST PRESSURE (IN. H2O): 6.5 @ 94232 @ 1140
 AS DISCHARGE PUMP PRESSURE (WHILE PUMPING) (PSI): 25
 AS BLOWER PRESSURE (IN. H2O): 16.5
 AS EXHAUST PID (PPM): 0

ELEVATOR DRAIN TILE SUMP FLOW TOTALIZER (GAL): 514.8

STATIC WATER LEVELS

	Clean to Dirty Ranking	Well Depth below TOC (FT)	Depth to Water below TOC (FT)
MW-14	3	17.5	12.26
MW-15	4	18	15.28
MW-16	10	18	13.09
MW-17	7	25	13.04
MW-18	6	60	13.67
MW-19	1	20	14.05
MW-20	8	16.7	12.48
DPE-1	15-23.83	21.9	17.83
DPE-2	13	20.5	15.78
DPE-3	14	17.1	16.56
DPE-4	12	19.3	16.42
DPE-5	9	18.1	15.35
DPE-6	5	19.5	15.57
DPE-7	2	22.2	17.35
DPE-8	11	17.5	16.37
Sump	1	7.74	6.97

OPERATING WATER LEVELS

DPE-1	23.83
DPE-2	20.5
DPE-3	17.1
DPE-4	19.3
DPE-5	18.1
DPE-6	19.5
DPE-7	22.2
DPE-8	17.5

SUMP ROOM PID: ND

BASEMENT PID READINGS: ND

COMMENTS/MAINTENANCE:
 pulled drop tube @ DPE-1
 Slits above water table
 were clogged w/
 sediment screen.

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	12.2	46.7	22.41	50
DPE-2	11.8	46	22.63	150
DPE-3	18.7	73.6	19.53	135
DPE-4	2.8	65	20.36	130
DPE-5	6.4	104.6	16.87	110
DPE-6	6.6	69.8	20.24	150
DPE-7	6.0	82	18.5	65
DPE-8	0.3	108	16.7	80

DPE 4 EXHAUST (#1214)

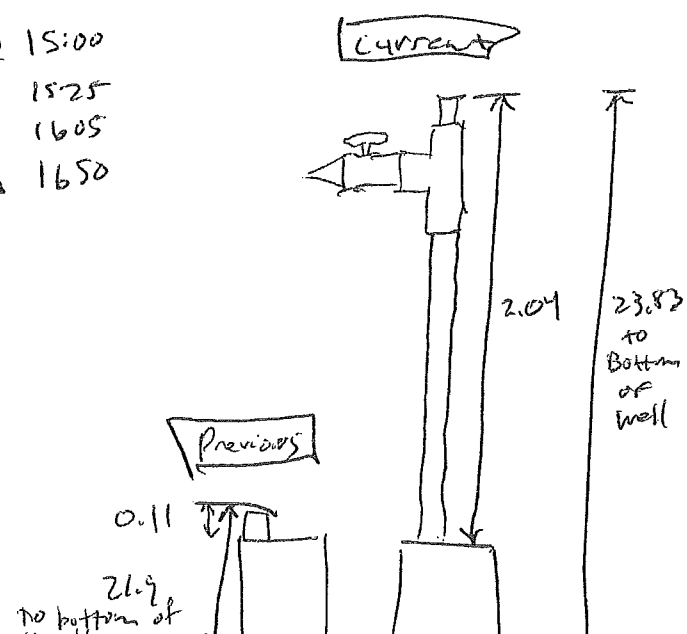
START	1143	27.3" Hg	} 16.5 min/in Hg
	1249	23.3" Hg	
	1346	20" Hg	
	1538	11.5" Hg	
	1655	6.5" Hg	
	1733	4" Hg	

Rate
 $\frac{360 \text{ min cycle}}{27 \text{ " Hg}} = 13 \text{ min/in Hg}$

WL Recovery tests

<u>DPE-2</u> 15.77	operating 1530	<u>DPE-1</u> 18.42' @ 15:00
15.68	1603	17.82 1525
<u>15.78</u>	1642	17.62 1605
		<u>17.83</u> 1650

$23.83 - 21.9 = 1.93$



MAINTENANCE CHECKLIST (Revised 4/13/10)

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

Date: 9/29/11

Field Representative: JOS

OBSERVATIONS AND/OR
 DESCRIPTION OF MAINTENANCE

Check Box

<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>
<input type="checkbox"/> NA

NO LEAKS
 changed oil

DPE Pump Maintenance

- Inspect Hoses, Piping and Fittings for Oil Leaks - MONTHLY
- Check Oil Level (level should show at middle of site glass) - MONTHLY
- Change Oil - MONTHLY
- ~~Clean Pump Inlet Opening - MONTHLY~~

Moisture Separator Maintenance

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

<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>
<input type="checkbox"/> NA
<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>

Replaced
 Replaced

<input type="checkbox"/> NA
<input type="checkbox"/> 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

<input checked="" type="checkbox"/>
<input type="checkbox"/> NA
<input checked="" type="checkbox"/>

<input checked="" type="checkbox"/>

Solenoid Valve Maintenance

- Inspect - MONTHLY
- Clean - AS NEEDED
- Rebuild - AS NEEDED

<input checked="" type="checkbox"/>
<input type="checkbox"/> NA
<input type="checkbox"/> 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: 10/18/11
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): 66.7
 DPE WELL VACUUM (IN. HG): 19.83
 DPE PUMP INLET VACUUM (IN. HG): 20.49
 DPE PUMP OUTLET PRESSURE (PSI): 0.02
 DPE PUMP OUTLET TEMP (DEG. F): 22.1
 MS PUMP WATER FLOW (GPM):

4

TOTAL PANEL READINGS

DPE VACUUM PUMP (HRS): 15799
 MS PUMP (HRS): 978
 MS VACUUM VALVE (HRS): 199
 AIR STRIPPER BLOWER (HRS): 6398
 AIR STRIPPER PUMP (HRS): 458
 DPE AIR FLOW (SCF): 69540000
 MS PUMP WATER FLOW (GAL): 681235
 SUMP PUMP WATER FLOW (GAL): 560

STATIC WATER LEVELS

	Clean to Dirty Ranking	Well Depth below TOC (FT)	Depth to Water below TOC (FT)
MW-14	3	17.5	11.18
MW-15	4	18	13.79
MW-16	10	18	11.99
MW-17	7	25	12.56
MW-18	6	60	15.44
MW-19	1	20	13.33
MW-20	8	16.7	12.31
DPE-1	15	21.9	14.89
DPE-2	13	20.5	14.78
DPE-3	14	17.1	14.89
DPE-4	12	19.3	14.98
DPE-5	9	18.1	14.24
DPE-6	5	19.5	14.20
DPE-7	2	22.2	16.29
DPE-8	11	17.5	15.41
Sump	1	7.74	6.68

FIELD MEASUREMENTS

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

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

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

ELEVATOR DRAIN TILE SUMP FLOW TOTALIZER (GAL):

OPERATING WATER LEVELS

DPE-1	21.5
DPE-2	20.5
DPE-3	17.3
DPE-4	19.5
DPE-5	18.0
DPE-6	19.8
DPE-7	22.4
DPE-8	17.3

SUMP ROOM PID:

BASEMENT PID READINGS:

COMMENTS/MAINTENANCE:

INSTALLED NEW FLOAT ASSEMBLY

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

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

DATE: 10/27/11
TIME: 0800
RECORDED BY:

2009 SYSTEM STARTUP INFORMATION

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

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

CURRENT OPERATING WELL:

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

ANALOG PANEL READINGS

DPE PUMP AIR FLOW (SCFM): 38.1
 DPE WELL VACUUM (IN. HG): 22.4
 DPE PUMP INLET VACUUM (IN. HG): 27.7
 DPE PUMP OUTLET PRESSURE (PSI): 0.03
 DPE PUMP OUTLET TEMP (DEG. F): 250
 MS PUMP WATER FLOW (GPM): 11.6

TOTAL PANEL READINGS

DPE VACUUM PUMP (HRS): 16013
 MS PUMP (HRS): 992
 MS VACUUM VALVE (HRS): 199
 AIR STRIPPER BLOWER (HRS): 6524
 AIR STRIPPER PUMP (HRS): 465
 DPE AIR FLOW (SCF): 70230000
 MS PUMP WATER FLOW (GAL): 650145
 SUMP PUMP WATER FLOW (GAL): 560

FIELD MEASUREMENTS

DPE WELL CASING VACUUM (MM HG): 19.0
 PRE-MANIFOLD VACUUM (IN. HG): 19.0
 DPE WELL (PRE-MS-1) VACUUM (IN. HG): 20.0
 POST-MS-1 VACUUM (IN. HG): 22.0
 POST-MS-2 VACUUM (IN. HG): 22.9
 DPE PUMP AIR FLOW (SCFM): 40
 DPE EXHAUST PID CONC. (PPM): 177
 DPE PUMP OUTLET PRESSURE (IN. H2O): 0
 DPE PUMP OUTLET TEMP (DEG. F): 226

MS PUMP WATER FLOWRATE (WHILE PUMPING) (GPM): 12.0
 MS PUMP WATER PRESSURE (WHILE PUMPING) (PSI): 15
 MS PUMP FLOW TOTALIZER READING (GAL): 115245

AS EXHAUST PRESSURE (IN. H2O): 9.0
 AS DISCHARGE PUMP PRESSURE (WHILE PUMPING) (PSI): 25
 AS BLOWER PRESSURE (IN. H2O): 16.5
 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	12.30
MW-15	4	18	15.56
MW-16	10	18	12.88
MW-17	7	25	13.08
MW-18	6	60	13.56
MW-19	1	20	14.32
MW-20	8	16.7	12.98
DPE-1	15	21.9	16.65
DPE-2	13	20.5	15.94
DPE-3	14	17.1	16.82
DPE-4	12	19.3	16.64
DPE-5	9	18.1	16.46
DPE-6	5	19.5	15.64
DPE-7	2	22.2	17.46
DPE-8	11	17.5	16.82
Sump	1	7.74	7.01

OPERATING WATER LEVELS

DPE-1	21.8
DPE-2	20.1
DPE-3	17.5
DPE-4	19.4
DPE-5	18.0
DPE-6	19.8
DPE-7	22.3
DPE-8	17.6

SUMP ROOM PID: ND

BASEMENT PID READINGS: ND

COMMENTS/MAINTENANCE:

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

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

DATE: 10/27/11
 TIME:
 RECORDED BY:

	PID READINGS	DPE EXHAUST FLOW RATE	DPE PUMP INLET VACUUM	WELL CASING VACUUMS
DPE-1	41.7	30	22.6	-50
DPE-2	177	38	22	-15.0
DPE-3	201	70.6	19.2	-124
DPE-4	156	64	20.5	-89
DPE-5	197	90	17.8	-100
DPE-6	127	65	20.1	-128
DPE-7	88.0	66	19.7	-48
DPE-8	79.8	102	16.9	-74

CAN started 09:00 - 29
 in #2

09:21 - 26

AS - Inflow +
 8:20

AS - Effluent
 8:30

MAINTENANCE CHECKLIST (Revised 4/13/10)

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

Date: 10/27/11

Field Representative: JEG

**OBSERVATIONS AND/OR
DESCRIPTION OF MAINTENANCE
PERFORMED**

DPE Pump Maintenance

- Inspect Hoses, Piping and Fittings for Oil Leaks - MONTHLY
- Check Oil Level (level should show at middle of site glass) - MONTHLY
- Change Oil - MONTHLY
- Clean Pump Inlet Opening - MONTHLY

Check Box
✓
NA
✓
✓

changed oil

Moisture Separator Maintenance

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

NA
NA
NA
New
New
✓
✓

New floats look good
- last week

New last week

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

✓

LAST week

LAST week

LAST week

Solonoid Valve Maintenance

- Inspect - MONTHLY
- Clean - AS NEEDED
- Rebuild - AS NEEDED

NA
NA
NA

LAST week

↓

Attachment B

August 02, 2011

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

RE: Project: CRC City of Rochester
Pace Project No.: 10164516

Dear Mr. Skramstad:

Enclosed are the analytical results for sample(s) received by the laboratory on July 26, 2011. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards, where applicable, unless otherwise narrated 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



REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

CERTIFICATIONS

Project: CRC City of Rochester

Pace Project No.: 10164516

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

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: CRC City of Rochester

Pace Project No.: 10164516

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10164516001	DPE-EXHAUST-1571	Air	07/25/11 16:00	07/26/11 09:40
10164516002	0317	Air		07/26/11 09:40

REPORT OF LABORATORY ANALYSIS

SAMPLE ANALYTE COUNT

Project: CRC City of Rochester

Pace Project No.: 10164516

Lab ID	Sample ID	Method	Analysts	Analytes Reported
10164516001	DPE-EXHAUST-1571	TO-15	DR1	61

REPORT OF LABORATORY ANALYSIS

ANALYTICAL RESULTS

Project: CRC City of Rochester

Pace Project No.: 10164516

Sample: DPE-EXHAUST-1571	Lab ID: 10164516001	Collected: 07/25/11 16:00	Received: 07/26/11 09:40	Matrix: Air				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR		Analytical Method: TO-15						
Acetone	83.1	ug/m3	17.3	36		08/02/11 01:28	67-64-1	
Benzene	ND	ug/m3	11.7	36		08/02/11 01:28	71-43-2	
Benzyl chloride	ND	ug/m3	37.8	36		08/02/11 01:28	100-44-7	
Bromodichloromethane	ND	ug/m3	50.4	36		08/02/11 01:28	75-27-4	
Bromoform	ND	ug/m3	75.6	36		08/02/11 01:28	75-25-2	
Bromomethane	ND	ug/m3	28.4	36		08/02/11 01:28	74-83-9	
1,3-Butadiene	ND	ug/m3	16.2	36		08/02/11 01:28	106-99-0	
2-Butanone (MEK)	27.1	ug/m3	21.6	36		08/02/11 01:28	78-93-3	
Carbon disulfide	ND	ug/m3	22.7	36		08/02/11 01:28	75-15-0	
Carbon tetrachloride	ND	ug/m3	23.0	36		08/02/11 01:28	56-23-5	
Chlorobenzene	ND	ug/m3	33.8	36		08/02/11 01:28	108-90-7	
Chloroethane	ND	ug/m3	19.4	36		08/02/11 01:28	75-00-3	
Chloroform	ND	ug/m3	35.6	36		08/02/11 01:28	67-66-3	
Chloromethane	ND	ug/m3	15.1	36		08/02/11 01:28	74-87-3	
Cyclohexane	ND	ug/m3	24.5	36		08/02/11 01:28	110-82-7	
Dibromochloromethane	ND	ug/m3	61.2	36		08/02/11 01:28	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/m3	57.6	36		08/02/11 01:28	106-93-4	
1,2-Dichlorobenzene	ND	ug/m3	43.2	36		08/02/11 01:28	95-50-1	
1,3-Dichlorobenzene	ND	ug/m3	43.2	36		08/02/11 01:28	541-73-1	
1,4-Dichlorobenzene	ND	ug/m3	43.2	36		08/02/11 01:28	106-46-7	
Dichlorodifluoromethane	ND	ug/m3	36.0	36		08/02/11 01:28	75-71-8	
1,1-Dichloroethane	ND	ug/m3	29.5	36		08/02/11 01:28	75-34-3	
1,2-Dichloroethane	ND	ug/m3	14.8	36		08/02/11 01:28	107-06-2	
1,1-Dichloroethene	ND	ug/m3	29.2	36		08/02/11 01:28	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	29.2	36		08/02/11 01:28	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	29.2	36		08/02/11 01:28	156-60-5	
1,2-Dichloropropane	ND	ug/m3	33.8	36		08/02/11 01:28	78-87-5	
cis-1,3-Dichloropropene	ND	ug/m3	33.1	36		08/02/11 01:28	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/m3	33.1	36		08/02/11 01:28	10061-02-6	
Dichlorotetrafluoroethane	ND	ug/m3	50.4	36		08/02/11 01:28	76-14-2	
Ethanol	198	ug/m3	68.4	36		08/02/11 01:28	64-17-5	SS
Ethyl acetate	ND	ug/m3	26.3	36		08/02/11 01:28	141-78-6	
Ethylbenzene	ND	ug/m3	31.7	36		08/02/11 01:28	100-41-4	
4-Ethyltoluene	ND	ug/m3	90.0	36		08/02/11 01:28	622-96-8	
n-Heptane	ND	ug/m3	29.9	36		08/02/11 01:28	142-82-5	
Hexachloro-1,3-butadiene	ND	ug/m3	79.2	36		08/02/11 01:28	87-68-3	
n-Hexane	ND	ug/m3	25.9	36		08/02/11 01:28	110-54-3	
2-Hexanone	ND	ug/m3	29.9	36		08/02/11 01:28	591-78-6	
Methylene Chloride	ND	ug/m3	25.6	36		08/02/11 01:28	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/m3	29.9	36		08/02/11 01:28	108-10-1	
Methyl-tert-butyl ether	ND	ug/m3	26.3	36		08/02/11 01:28	1634-04-4	
Naphthalene	ND	ug/m3	97.2	36		08/02/11 01:28	91-20-3	
2-Propanol	ND	ug/m3	90.0	36		08/02/11 01:28	67-63-0	
Propylene	ND	ug/m3	12.6	36		08/02/11 01:28	115-07-1	
Styrene	ND	ug/m3	31.3	36		08/02/11 01:28	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/m3	25.1	36		08/02/11 01:28	79-34-5	
Tetrachloroethene	308	ug/m3	24.8	36		08/02/11 01:28	127-18-4	

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REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: CRC City of Rochester

Pace Project No.: 10164516

Sample: DPE-EXHAUST-1571		Lab ID: 10164516001	Collected: 07/25/11 16:00	Received: 07/26/11 09:40	Matrix: Air			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR		Analytical Method: TO-15						
Tetrahydrofuran	ND	ug/m3	21.6	36		08/02/11 01:28	109-99-9	
Toluene	ND	ug/m3	27.7	36		08/02/11 01:28	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/m3	35.6	36		08/02/11 01:28	120-82-1	
1,1,1-Trichloroethane	ND	ug/m3	39.6	36		08/02/11 01:28	71-55-6	
1,1,2-Trichloroethane	ND	ug/m3	19.8	36		08/02/11 01:28	79-00-5	
Trichloroethene	ND	ug/m3	19.8	36		08/02/11 01:28	79-01-6	
Trichlorofluoromethane	ND	ug/m3	39.6	36		08/02/11 01:28	75-69-4	
1,1,2-Trichlorotrifluoroethane	8250	ug/m3	57.6	36		08/02/11 01:28	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/m3	36.0	36		08/02/11 01:28	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/m3	36.0	36		08/02/11 01:28	108-67-8	
Vinyl acetate	ND	ug/m3	25.6	36		08/02/11 01:28	108-05-4	
Vinyl chloride	ND	ug/m3	9.4	36		08/02/11 01:28	75-01-4	
m&p-Xylene	ND	ug/m3	63.4	36		08/02/11 01:28	179601-23-1	
o-Xylene	ND	ug/m3	31.7	36		08/02/11 01:28	95-47-6	

QUALITY CONTROL DATA

Project: CRC City of Rochester
Pace Project No.: 10164516

QC Batch: AIR/12833 Analysis Method: TO-15
QC Batch Method: TO-15 Analysis Description: TO15 MSV AIR Low Level
Associated Lab Samples: 10164516001

METHOD BLANK: 1024352 Matrix: Air
Associated Lab Samples: 10164516001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/m3	ND	1.1	08/01/11 09:21	
1,1,2,2-Tetrachloroethane	ug/m3	ND	0.70	08/01/11 09:21	
1,1,2-Trichloroethane	ug/m3	ND	0.55	08/01/11 09:21	
1,1,2-Trichlorotrifluoroethane	ug/m3	ND	1.6	08/01/11 09:21	
1,1-Dichloroethane	ug/m3	ND	0.82	08/01/11 09:21	
1,1-Dichloroethene	ug/m3	ND	0.81	08/01/11 09:21	
1,2,4-Trichlorobenzene	ug/m3	ND	0.99	08/01/11 09:21	
1,2,4-Trimethylbenzene	ug/m3	ND	1.0	08/01/11 09:21	
1,2-Dibromoethane (EDB)	ug/m3	ND	1.6	08/01/11 09:21	
1,2-Dichlorobenzene	ug/m3	ND	1.2	08/01/11 09:21	
1,2-Dichloroethane	ug/m3	ND	0.41	08/01/11 09:21	
1,2-Dichloropropane	ug/m3	ND	0.94	08/01/11 09:21	
1,3,5-Trimethylbenzene	ug/m3	ND	1.0	08/01/11 09:21	
1,3-Butadiene	ug/m3	ND	0.45	08/01/11 09:21	
1,3-Dichlorobenzene	ug/m3	ND	1.2	08/01/11 09:21	
1,4-Dichlorobenzene	ug/m3	ND	1.2	08/01/11 09:21	
2-Butanone (MEK)	ug/m3	ND	0.60	08/01/11 09:21	
2-Hexanone	ug/m3	ND	0.83	08/01/11 09:21	
2-Propanol	ug/m3	ND	2.5	08/01/11 09:21	
4-Ethyltoluene	ug/m3	ND	2.5	08/01/11 09:21	
4-Methyl-2-pentanone (MIBK)	ug/m3	ND	0.83	08/01/11 09:21	
Acetone	ug/m3	ND	0.48	08/01/11 09:21	
Benzene	ug/m3	ND	0.32	08/01/11 09:21	
Benzyl chloride	ug/m3	ND	1.0	08/01/11 09:21	
Bromodichloromethane	ug/m3	ND	1.4	08/01/11 09:21	
Bromoform	ug/m3	ND	2.1	08/01/11 09:21	
Bromomethane	ug/m3	ND	0.79	08/01/11 09:21	
Carbon disulfide	ug/m3	ND	0.63	08/01/11 09:21	
Carbon tetrachloride	ug/m3	ND	0.64	08/01/11 09:21	
Chlorobenzene	ug/m3	ND	0.94	08/01/11 09:21	
Chloroethane	ug/m3	ND	0.54	08/01/11 09:21	
Chloroform	ug/m3	ND	0.99	08/01/11 09:21	
Chloromethane	ug/m3	ND	0.42	08/01/11 09:21	
cis-1,2-Dichloroethene	ug/m3	ND	0.81	08/01/11 09:21	
cis-1,3-Dichloropropene	ug/m3	ND	0.92	08/01/11 09:21	
Cyclohexane	ug/m3	ND	0.68	08/01/11 09:21	
Dibromochloromethane	ug/m3	ND	1.7	08/01/11 09:21	
Dichlorodifluoromethane	ug/m3	ND	1.0	08/01/11 09:21	
Dichlorotetrafluoroethane	ug/m3	ND	1.4	08/01/11 09:21	
Ethanol	ug/m3	ND	1.9	08/01/11 09:21	
Ethyl acetate	ug/m3	ND	0.73	08/01/11 09:21	
Ethylbenzene	ug/m3	ND	0.88	08/01/11 09:21	
Hexachloro-1,3-butadiene	ug/m3	ND	2.2	08/01/11 09:21	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: CRC City of Rochester

Pace Project No.: 10164516

METHOD BLANK: 1024352

Matrix: Air

Associated Lab Samples: 10164516001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
m&p-Xylene	ug/m3	ND	1.8	08/01/11 09:21	
Methyl-tert-butyl ether	ug/m3	ND	0.73	08/01/11 09:21	
Methylene Chloride	ug/m3	ND	0.71	08/01/11 09:21	
n-Heptane	ug/m3	ND	0.83	08/01/11 09:21	
n-Hexane	ug/m3	ND	0.72	08/01/11 09:21	
Naphthalene	ug/m3	ND	2.7	08/01/11 09:21	
o-Xylene	ug/m3	ND	0.88	08/01/11 09:21	
Propylene	ug/m3	ND	0.35	08/01/11 09:21	
Styrene	ug/m3	ND	0.87	08/01/11 09:21	
Tetrachloroethene	ug/m3	ND	0.69	08/01/11 09:21	
Tetrahydrofuran	ug/m3	ND	0.60	08/01/11 09:21	
Toluene	ug/m3	ND	0.77	08/01/11 09:21	
trans-1,2-Dichloroethene	ug/m3	ND	0.81	08/01/11 09:21	
trans-1,3-Dichloropropene	ug/m3	ND	0.92	08/01/11 09:21	
Trichloroethene	ug/m3	ND	0.55	08/01/11 09:21	
Trichlorofluoromethane	ug/m3	ND	1.1	08/01/11 09:21	
Vinyl acetate	ug/m3	ND	0.71	08/01/11 09:21	
Vinyl chloride	ug/m3	ND	0.26	08/01/11 09:21	

LABORATORY CONTROL SAMPLE: 1024353

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/m3	55.5	51.6	93	66-133	
1,1,2,2-Tetrachloroethane	ug/m3	69.8	63.9	92	70-140	
1,1,2-Trichloroethane	ug/m3	55.5	52.2	94	68-132	
1,1,2-Trichlorotrifluoroethane	ug/m3	77.9	63.1	81	60-137	
1,1-Dichloroethane	ug/m3	41.2	38.1	93	65-131	
1,1-Dichloroethene	ug/m3	40.3	38.3	95	65-132	
1,2,4-Trichlorobenzene	ug/m3	75.5	92.3	122	30-150	
1,2,4-Trimethylbenzene	ug/m3	50	46.1	92	69-140	
1,2-Dibromoethane (EDB)	ug/m3	78.1	73.0	93	71-139	
1,2-Dichlorobenzene	ug/m3	61.2	58.9	96	68-139	
1,2-Dichloroethane	ug/m3	41.2	37.4	91	66-132	
1,2-Dichloropropane	ug/m3	47	48.2	103	69-130	
1,3,5-Trimethylbenzene	ug/m3	50	45.2	90	70-141	
1,3-Butadiene	ug/m3	22.5	20.7	92	68-128	
1,3-Dichlorobenzene	ug/m3	61.2	56.6	92	66-146	
1,4-Dichlorobenzene	ug/m3	61.2	55.0	90	66-142	
2-Butanone (MEK)	ug/m3	30	30.0	100	68-134	
2-Hexanone	ug/m3	41.7	39.4	95	70-144	
2-Propanol	ug/m3	23.8	21.2	89	66-139	
4-Ethyltoluene	ug/m3	50	45.4	91	65-145	
4-Methyl-2-pentanone (MIBK)	ug/m3	41.7	40.2	97	70-139	
Acetone	ug/m3	24.2	21.9	91	56-142	
Benzene	ug/m3	32.5	33.8	104	69-129	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: CRC City of Rochester

Pace Project No.: 10164516

LABORATORY CONTROL SAMPLE: 1024353

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Benzyl chloride	ug/m3	52.5	44.8	85	68-138	
Bromodichloromethane	ug/m3	68.2	63.7	93	70-130	
Bromoform	ug/m3	105	97.0	92	67-147	
Bromomethane	ug/m3	39.5	33.4	85	67-127	
Carbon disulfide	ug/m3	31.7	29.1	92	65-131	
Carbon tetrachloride	ug/m3	64	48.4	76	62-137	
Chlorobenzene	ug/m3	46.8	45.2	96	72-133	
Chloroethane	ug/m3	26.8	25.6	96	66-127	
Chloroform	ug/m3	49.7	45.3	91	67-130	
Chloromethane	ug/m3	21	20.0	95	63-127	
cis-1,2-Dichloroethene	ug/m3	40.3	39.1	97	69-130	
cis-1,3-Dichloropropene	ug/m3	46.2	44.7	97	74-137	
Cyclohexane	ug/m3	35	33.3	95	69-137	
Dibromochloromethane	ug/m3	86.6	80.4	93	69-140	
Dichlorodifluoromethane	ug/m3	50.3	46.7	93	62-131	
Dichlorotetrafluoroethane	ug/m3	71.1	55.9	79	63-130	
Ethanol	ug/m3	19.2	15.1	79	63-135	SS
Ethyl acetate	ug/m3	36.6	36.8	100	70-135	
Ethylbenzene	ug/m3	44.2	43.3	98	71-141	
Hexachloro-1,3-butadiene	ug/m3	108	136	125	30-150	SS
m&p-Xylene	ug/m3	88.3	74.4	84	68-144	
Methyl-tert-butyl ether	ug/m3	36.7	37.2	101	54-136	
Methylene Chloride	ug/m3	35.3	33.0	93	56-143	
n-Heptane	ug/m3	41.7	44.2	106	72-130	
n-Hexane	ug/m3	35.8	37.5	104	68-130	
Naphthalene	ug/m3	53.3	62.3	117	30-150	
o-Xylene	ug/m3	44.2	41.1	93	70-141	
Propylene	ug/m3	17.5	18.1	103	61-139	
Styrene	ug/m3	43.3	41.5	96	68-145	
Tetrachloroethene	ug/m3	69	67.2	97	64-142	
Tetrahydrofuran	ug/m3	30	29.8	99	70-134	SS
Toluene	ug/m3	38.3	37.7	98	69-133	
trans-1,2-Dichloroethene	ug/m3	40.3	37.4	93	64-132	
trans-1,3-Dichloropropene	ug/m3	46.2	43.0	93	71-140	
Trichloroethene	ug/m3	54.6	53.4	98	68-132	
Trichlorofluoromethane	ug/m3	57.1	43.5	76	59-136	
Vinyl acetate	ug/m3	35.8	33.4	93	70-142	
Vinyl chloride	ug/m3	26	25.8	99	64-129	

QUALIFIERS

Project: CRC City of Rochester

Pace Project No.: 10164516

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

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

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: CRC City of Rochester

Pace Project No.: 10164516

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10164516001	DPE-EXHAUST-1571	TO-15	AIR/12833		



AIR Sample Condition Upon Receipt

Client Name: LANDMARK Project # 10164516

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 _____

Optional
Proj. Due Date
Proj. Name

Tracking #: _____

Comments: _____

Date and Initials of person examining contents: 7-26-11 AL

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

Samples Received: 2 CANS, 2 FC'S

Canisters		Flow Controllers		Stand Alone G		Tedlar Bags	
Sample Number	Can ID	Sample Number	Can ID	Sample Number	Can ID	Sample Number	Can ID
<u>DPE-EXHAUST</u>	<u>1571</u>		<u>FC0390</u>				
	<u>0317</u>		<u>FC0101</u>				

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

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: CDM Date: 7/27/10

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)

August 02, 2011

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

RE: Project: CRC City of Rochester
Pace Project No.: 10164570

Dear Mr. Skramstad:

Enclosed are the analytical results for sample(s) received by the laboratory on July 26, 2011. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards, where applicable, unless otherwise narrated 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



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: CRC City of Rochester

Pace Project No.: 10164570

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

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: CRC City of Rochester

Pace Project No.: 10164570

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10164570001	AS- Influent	Water	07/25/11 12:00	07/26/11 09:40
10164570002	AS- Effluent	Water	07/25/11 12:02	07/26/11 09:40

REPORT OF LABORATORY ANALYSIS

SAMPLE ANALYTE COUNT

Project: CRC City of Rochester
Pace Project No.: 10164570

Lab ID	Sample ID	Method	Analysts	Analytes Reported
10164570001	AS- Influent	EPA 624	ECB	82
10164570002	AS- Effluent	EPA 624	ECB	82

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: CRC City of Rochester

Pace Project No.: 10164570

Sample: AS- Influent	Lab ID: 10164570001	Collected: 07/25/11 12:00	Received: 07/26/11 09:40	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		07/29/11 14:40	67-64-1	CL,L2
Acrolein	ND ug/L		10.0	1		07/29/11 14:40	107-02-8	
Acrylonitrile	ND ug/L		10.0	1		07/29/11 14:40	107-13-1	
Allyl chloride	ND ug/L		4.0	1		07/29/11 14:40	107-05-1	
Benzene	ND ug/L		1.0	1		07/29/11 14:40	71-43-2	
Bromobenzene	ND ug/L		1.0	1		07/29/11 14:40	108-86-1	
Bromochloromethane	ND ug/L		1.0	1		07/29/11 14:40	74-97-5	
Bromodichloromethane	ND ug/L		1.0	1		07/29/11 14:40	75-27-4	
Bromoform	ND ug/L		4.0	1		07/29/11 14:40	75-25-2	
Bromomethane	ND ug/L		4.0	1		07/29/11 14:40	74-83-9	
2-Butanone (MEK)	ND ug/L		4.0	1		07/29/11 14:40	78-93-3	
n-Butylbenzene	ND ug/L		1.0	1		07/29/11 14:40	104-51-8	
sec-Butylbenzene	ND ug/L		1.0	1		07/29/11 14:40	135-98-8	
tert-Butylbenzene	ND ug/L		1.0	1		07/29/11 14:40	98-06-6	
Carbon disulfide	ND ug/L		1.0	1		07/29/11 14:40	75-15-0	
Carbon tetrachloride	ND ug/L		1.0	1		07/29/11 14:40	56-23-5	
Chlorobenzene	ND ug/L		1.0	1		07/29/11 14:40	108-90-7	
Chloroethane	ND ug/L		1.0	1		07/29/11 14:40	75-00-3	
2-Chloroethylvinyl ether	ND ug/L		10.0	1		07/29/11 14:40	110-75-8	M1
Chloroform	ND ug/L		1.0	1		07/29/11 14:40	67-66-3	
Chloromethane	ND ug/L		4.0	1		07/29/11 14:40	74-87-3	
Chloroprene	ND ug/L		1.0	1		07/29/11 14:40	126-99-8	
2-Chlorotoluene	ND ug/L		1.0	1		07/29/11 14:40	95-49-8	
4-Chlorotoluene	ND ug/L		1.0	1		07/29/11 14:40	106-43-4	
1,2-Dibromo-3-chloropropane	ND ug/L		4.0	1		07/29/11 14:40	96-12-8	
Dibromochloromethane	ND ug/L		1.0	1		07/29/11 14:40	124-48-1	
1,2-Dibromoethane (EDB)	ND ug/L		1.0	1		07/29/11 14:40	106-93-4	
Dibromomethane	ND ug/L		4.0	1		07/29/11 14:40	74-95-3	
1,2-Dichlorobenzene	ND ug/L		1.0	1		07/29/11 14:40	95-50-1	
1,3-Dichlorobenzene	ND ug/L		1.0	1		07/29/11 14:40	541-73-1	
1,4-Dichlorobenzene	ND ug/L		1.0	1		07/29/11 14:40	106-46-7	
Dichlorodifluoromethane	ND ug/L		1.0	1		07/29/11 14:40	75-71-8	M1
1,1-Dichloroethane	ND ug/L		1.0	1		07/29/11 14:40	75-34-3	
1,2-Dichloroethane	ND ug/L		1.0	1		07/29/11 14:40	107-06-2	
1,1-Dichloroethene	ND ug/L		1.0	1		07/29/11 14:40	75-35-4	
cis-1,2-Dichloroethene	ND ug/L		1.0	1		07/29/11 14:40	156-59-2	
trans-1,2-Dichloroethene	ND ug/L		4.0	1		07/29/11 14:40	156-60-5	
Dichlorofluoromethane	ND ug/L		1.0	1		07/29/11 14:40	75-43-4	
1,2-Dichloropropane	ND ug/L		4.0	1		07/29/11 14:40	78-87-5	
1,3-Dichloropropane	ND ug/L		1.0	1		07/29/11 14:40	142-28-9	
2,2-Dichloropropane	ND ug/L		4.0	1		07/29/11 14:40	594-20-7	
1,1-Dichloropropene	ND ug/L		1.0	1		07/29/11 14:40	563-58-6	
cis-1,3-Dichloropropene	ND ug/L		4.0	1		07/29/11 14:40	10061-01-5	
trans-1,3-Dichloropropene	ND ug/L		4.0	1		07/29/11 14:40	10061-02-6	
Diethyl ether (Ethyl ether)	ND ug/L		4.0	1		07/29/11 14:40	60-29-7	
Ethylbenzene	ND ug/L		1.0	1		07/29/11 14:40	100-41-4	
Hexachloro-1,3-butadiene	ND ug/L		5.0	1		07/29/11 14:40	87-68-3	

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REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: CRC City of Rochester

Pace Project No.: 10164570

Sample: AS- Influent		Lab ID: 10164570001	Collected: 07/25/11 12:00	Received: 07/26/11 09:40	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
624 MSV		Analytical Method: EPA 624						
2-Hexanone	ND	ug/L	4.0	1		07/29/11 14:40	591-78-6	
Iodomethane	ND	ug/L	4.0	1		07/29/11 14:40	74-88-4	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		07/29/11 14:40	98-82-8	
p-Isopropyltoluene	ND	ug/L	1.0	1		07/29/11 14:40	99-87-6	
Methylene Chloride	ND	ug/L	4.0	1		07/29/11 14:40	75-09-2	
2-Methylnaphthalene	ND	ug/L	5.0	1		07/29/11 14:40	91-57-6	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	4.0	1		07/29/11 14:40	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		07/29/11 14:40	1634-04-4	
Naphthalene	ND	ug/L	4.0	1		07/29/11 14:40	91-20-3	
n-Propylbenzene	ND	ug/L	1.0	1		07/29/11 14:40	103-65-1	
Styrene	ND	ug/L	1.0	1		07/29/11 14:40	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		07/29/11 14:40	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		07/29/11 14:40	79-34-5	
Tetrachloroethene	37.0	ug/L	1.0	1		07/29/11 14:40	127-18-4	
Tetrahydrofuran	ND	ug/L	10.0	1		07/29/11 14:40	109-99-9	
Toluene	ND	ug/L	1.0	1		07/29/11 14:40	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		07/29/11 14:40	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		07/29/11 14:40	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		07/29/11 14:40	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		07/29/11 14:40	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		07/29/11 14:40	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		07/29/11 14:40	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	4.0	1		07/29/11 14:40	96-18-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/L	1.0	1		07/29/11 14:40	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1		07/29/11 14:40	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1		07/29/11 14:40	108-67-8	
Vinyl acetate	ND	ug/L	10.0	1		07/29/11 14:40	108-05-4	
Vinyl chloride	ND	ug/L	0.40	1		07/29/11 14:40	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		07/29/11 14:40	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		07/29/11 14:40	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		07/29/11 14:40	95-47-6	
Dibromofluoromethane (S)	104	%	75-125	1		07/29/11 14:40	1868-53-7	
4-Bromofluorobenzene (S)	102	%	75-125	1		07/29/11 14:40	460-00-4	
Toluene-d8 (S)	97	%	75-125	1		07/29/11 14:40	2037-26-5	
1,2-Dichloroethane-d4 (S)	106	%	75-125	1		07/29/11 14:40	17060-07-0	

Sample: AS- Effluent		Lab ID: 10164570002	Collected: 07/25/11 12:02	Received: 07/26/11 09:40	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		07/29/11 14:56	67-64-1	CL,L2
Acrolein	ND	ug/L	10.0	1		07/29/11 14:56	107-02-8	
Acrylonitrile	ND	ug/L	10.0	1		07/29/11 14:56	107-13-1	
Allyl chloride	ND	ug/L	4.0	1		07/29/11 14:56	107-05-1	
Benzene	ND	ug/L	1.0	1		07/29/11 14:56	71-43-2	

Date: 08/02/2011 03:42 PM

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: CRC City of Rochester

Pace Project No.: 10164570

Sample: AS- Effluent		Lab ID: 10164570002	Collected: 07/25/11 12:02	Received: 07/26/11 09:40	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
624 MSV		Analytical Method: EPA 624						
Bromobenzene	ND	ug/L	1.0	1		07/29/11 14:56	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		07/29/11 14:56	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		07/29/11 14:56	75-27-4	
Bromoform	ND	ug/L	4.0	1		07/29/11 14:56	75-25-2	
Bromomethane	ND	ug/L	4.0	1		07/29/11 14:56	74-83-9	
2-Butanone (MEK)	ND	ug/L	4.0	1		07/29/11 14:56	78-93-3	
n-Butylbenzene	ND	ug/L	1.0	1		07/29/11 14:56	104-51-8	
sec-Butylbenzene	ND	ug/L	1.0	1		07/29/11 14:56	135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	1		07/29/11 14:56	98-06-6	
Carbon disulfide	ND	ug/L	1.0	1		07/29/11 14:56	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	1		07/29/11 14:56	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		07/29/11 14:56	108-90-7	
Chloroethane	ND	ug/L	1.0	1		07/29/11 14:56	75-00-3	
2-Chloroethylvinyl ether	ND	ug/L	10.0	1		07/29/11 14:56	110-75-8	
Chloroform	ND	ug/L	1.0	1		07/29/11 14:56	67-66-3	
Chloromethane	ND	ug/L	4.0	1		07/29/11 14:56	74-87-3	
Chloroprene	ND	ug/L	1.0	1		07/29/11 14:56	126-99-8	
2-Chlorotoluene	ND	ug/L	1.0	1		07/29/11 14:56	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		07/29/11 14:56	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	4.0	1		07/29/11 14:56	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		07/29/11 14:56	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		07/29/11 14:56	106-93-4	
Dibromomethane	ND	ug/L	4.0	1		07/29/11 14:56	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		07/29/11 14:56	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		07/29/11 14:56	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		07/29/11 14:56	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		07/29/11 14:56	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		07/29/11 14:56	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		07/29/11 14:56	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		07/29/11 14:56	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		07/29/11 14:56	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	4.0	1		07/29/11 14:56	156-60-5	
Dichlorofluoromethane	ND	ug/L	1.0	1		07/29/11 14:56	75-43-4	
1,2-Dichloropropane	ND	ug/L	4.0	1		07/29/11 14:56	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		07/29/11 14:56	142-28-9	
2,2-Dichloropropane	ND	ug/L	4.0	1		07/29/11 14:56	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		07/29/11 14:56	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	4.0	1		07/29/11 14:56	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	4.0	1		07/29/11 14:56	10061-02-6	
Diethyl ether (Ethyl ether)	ND	ug/L	4.0	1		07/29/11 14:56	60-29-7	
Ethylbenzene	ND	ug/L	1.0	1		07/29/11 14:56	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	5.0	1		07/29/11 14:56	87-68-3	
2-Hexanone	ND	ug/L	4.0	1		07/29/11 14:56	591-78-6	
Iodomethane	ND	ug/L	4.0	1		07/29/11 14:56	74-88-4	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		07/29/11 14:56	98-82-8	
p-Isopropyltoluene	ND	ug/L	1.0	1		07/29/11 14:56	99-87-6	
Methylene Chloride	ND	ug/L	4.0	1		07/29/11 14:56	75-09-2	

Date: 08/02/2011 03:42 PM

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ANALYTICAL RESULTS

Project: CRC City of Rochester

Pace Project No.: 10164570

Sample: AS- Effluent		Lab ID: 10164570002	Collected: 07/25/11 12:02	Received: 07/26/11 09:40	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
624 MSV		Analytical Method: EPA 624						
2-Methylnaphthalene	ND	ug/L	5.0	1		07/29/11 14:56	91-57-6	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	4.0	1		07/29/11 14:56	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		07/29/11 14:56	1634-04-4	
Naphthalene	ND	ug/L	4.0	1		07/29/11 14:56	91-20-3	
n-Propylbenzene	ND	ug/L	1.0	1		07/29/11 14:56	103-65-1	
Styrene	ND	ug/L	1.0	1		07/29/11 14:56	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		07/29/11 14:56	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		07/29/11 14:56	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		07/29/11 14:56	127-18-4	
Tetrahydrofuran	ND	ug/L	10.0	1		07/29/11 14:56	109-99-9	
Toluene	ND	ug/L	1.0	1		07/29/11 14:56	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		07/29/11 14:56	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		07/29/11 14:56	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		07/29/11 14:56	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		07/29/11 14:56	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		07/29/11 14:56	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		07/29/11 14:56	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	4.0	1		07/29/11 14:56	96-18-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/L	1.0	1		07/29/11 14:56	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1		07/29/11 14:56	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1		07/29/11 14:56	108-67-8	
Vinyl acetate	ND	ug/L	10.0	1		07/29/11 14:56	108-05-4	
Vinyl chloride	ND	ug/L	0.40	1		07/29/11 14:56	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		07/29/11 14:56	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		07/29/11 14:56	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		07/29/11 14:56	95-47-6	
Dibromofluoromethane (S)	105	%	75-125	1		07/29/11 14:56	1868-53-7	
4-Bromofluorobenzene (S)	100	%	75-125	1		07/29/11 14:56	460-00-4	
Toluene-d8 (S)	97	%	75-125	1		07/29/11 14:56	2037-26-5	
1,2-Dichloroethane-d4 (S)	107	%	75-125	1		07/29/11 14:56	17060-07-0	

QUALITY CONTROL DATA

Project: CRC City of Rochester
Pace Project No.: 10164570

QC Batch: MSV/17505 Analysis Method: EPA 624
QC Batch Method: EPA 624 Analysis Description: 624 MSV
Associated Lab Samples: 10164570001, 10164570002

METHOD BLANK: 1022211 Matrix: Water
Associated Lab Samples: 10164570001, 10164570002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	1.0	07/29/11 10:59	
1,1,1-Trichloroethane	ug/L	ND	1.0	07/29/11 10:59	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	07/29/11 10:59	
1,1,2-Trichloroethane	ug/L	ND	1.0	07/29/11 10:59	
1,1,2-Trichlorotrifluoroethane	ug/L	ND	1.0	07/29/11 10:59	
1,1-Dichloroethane	ug/L	ND	1.0	07/29/11 10:59	
1,1-Dichloroethene	ug/L	ND	1.0	07/29/11 10:59	
1,1-Dichloropropene	ug/L	ND	1.0	07/29/11 10:59	
1,2,3-Trichlorobenzene	ug/L	ND	1.0	07/29/11 10:59	
1,2,3-Trichloropropane	ug/L	ND	4.0	07/29/11 10:59	
1,2,4-Trichlorobenzene	ug/L	ND	1.0	07/29/11 10:59	
1,2,4-Trimethylbenzene	ug/L	ND	1.0	07/29/11 10:59	
1,2-Dibromo-3-chloropropane	ug/L	ND	4.0	07/29/11 10:59	
1,2-Dibromoethane (EDB)	ug/L	ND	1.0	07/29/11 10:59	
1,2-Dichlorobenzene	ug/L	ND	1.0	07/29/11 10:59	
1,2-Dichloroethane	ug/L	ND	1.0	07/29/11 10:59	
1,2-Dichloropropane	ug/L	ND	4.0	07/29/11 10:59	
1,3,5-Trimethylbenzene	ug/L	ND	1.0	07/29/11 10:59	
1,3-Dichlorobenzene	ug/L	ND	1.0	07/29/11 10:59	
1,3-Dichloropropane	ug/L	ND	1.0	07/29/11 10:59	
1,4-Dichlorobenzene	ug/L	ND	1.0	07/29/11 10:59	
2,2-Dichloropropane	ug/L	ND	4.0	07/29/11 10:59	
2-Butanone (MEK)	ug/L	ND	4.0	07/29/11 10:59	
2-Chloroethylvinyl ether	ug/L	ND	10.0	07/29/11 10:59	
2-Chlorotoluene	ug/L	ND	1.0	07/29/11 10:59	
2-Hexanone	ug/L	ND	4.0	07/29/11 10:59	
2-Methylnaphthalene	ug/L	ND	5.0	07/29/11 10:59	
4-Chlorotoluene	ug/L	ND	1.0	07/29/11 10:59	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	4.0	07/29/11 10:59	
Acetone	ug/L	ND	25.0	07/29/11 10:59	CL
Acrolein	ug/L	ND	10.0	07/29/11 10:59	
Acrylonitrile	ug/L	ND	10.0	07/29/11 10:59	
Allyl chloride	ug/L	ND	4.0	07/29/11 10:59	
Benzene	ug/L	ND	1.0	07/29/11 10:59	
Bromobenzene	ug/L	ND	1.0	07/29/11 10:59	
Bromochloromethane	ug/L	ND	1.0	07/29/11 10:59	
Bromodichloromethane	ug/L	ND	1.0	07/29/11 10:59	
Bromoform	ug/L	ND	4.0	07/29/11 10:59	
Bromomethane	ug/L	ND	4.0	07/29/11 10:59	
Carbon disulfide	ug/L	ND	1.0	07/29/11 10:59	
Carbon tetrachloride	ug/L	ND	1.0	07/29/11 10:59	
Chlorobenzene	ug/L	ND	1.0	07/29/11 10:59	
Chloroethane	ug/L	ND	1.0	07/29/11 10:59	

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QUALITY CONTROL DATA

Project: CRC City of Rochester

Pace Project No.: 10164570

METHOD BLANK: 1022211

Matrix: Water

Associated Lab Samples: 10164570001, 10164570002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloroform	ug/L	ND	1.0	07/29/11 10:59	
Chloromethane	ug/L	ND	4.0	07/29/11 10:59	
Chloroprene	ug/L	ND	1.0	07/29/11 10:59	
cis-1,2-Dichloroethene	ug/L	ND	1.0	07/29/11 10:59	
cis-1,3-Dichloropropene	ug/L	ND	4.0	07/29/11 10:59	
Dibromochloromethane	ug/L	ND	1.0	07/29/11 10:59	
Dibromomethane	ug/L	ND	4.0	07/29/11 10:59	
Dichlorodifluoromethane	ug/L	ND	1.0	07/29/11 10:59	
Dichlorofluoromethane	ug/L	ND	1.0	07/29/11 10:59	
Diethyl ether (Ethyl ether)	ug/L	ND	4.0	07/29/11 10:59	
Ethylbenzene	ug/L	ND	1.0	07/29/11 10:59	
Hexachloro-1,3-butadiene	ug/L	ND	5.0	07/29/11 10:59	
Iodomethane	ug/L	ND	4.0	07/29/11 10:59	
Isopropylbenzene (Cumene)	ug/L	ND	1.0	07/29/11 10:59	
m&p-Xylene	ug/L	ND	2.0	07/29/11 10:59	
Methyl-tert-butyl ether	ug/L	ND	1.0	07/29/11 10:59	
Methylene Chloride	ug/L	ND	4.0	07/29/11 10:59	
n-Butylbenzene	ug/L	ND	1.0	07/29/11 10:59	
n-Propylbenzene	ug/L	ND	1.0	07/29/11 10:59	
Naphthalene	ug/L	ND	4.0	07/29/11 10:59	
o-Xylene	ug/L	ND	1.0	07/29/11 10:59	
p-Isopropyltoluene	ug/L	ND	1.0	07/29/11 10:59	
sec-Butylbenzene	ug/L	ND	1.0	07/29/11 10:59	
Styrene	ug/L	ND	1.0	07/29/11 10:59	
tert-Butylbenzene	ug/L	ND	1.0	07/29/11 10:59	
Tetrachloroethene	ug/L	ND	1.0	07/29/11 10:59	
Tetrahydrofuran	ug/L	ND	10.0	07/29/11 10:59	
Toluene	ug/L	ND	1.0	07/29/11 10:59	
trans-1,2-Dichloroethene	ug/L	ND	4.0	07/29/11 10:59	
trans-1,3-Dichloropropene	ug/L	ND	4.0	07/29/11 10:59	
Trichloroethene	ug/L	ND	1.0	07/29/11 10:59	
Trichlorofluoromethane	ug/L	ND	1.0	07/29/11 10:59	
Vinyl acetate	ug/L	ND	10.0	07/29/11 10:59	
Vinyl chloride	ug/L	ND	0.40	07/29/11 10:59	
Xylene (Total)	ug/L	ND	3.0	07/29/11 10:59	
1,2-Dichloroethane-d4 (S)	%	101	75-125	07/29/11 10:59	
4-Bromofluorobenzene (S)	%	101	75-125	07/29/11 10:59	
Dibromofluoromethane (S)	%	102	75-125	07/29/11 10:59	
Toluene-d8 (S)	%	98	75-125	07/29/11 10:59	

LABORATORY CONTROL SAMPLE: 1022212

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	47.7	95	75-129	
1,1,1-Trichloroethane	ug/L	50	52.0	104	73-144	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: CRC City of Rochester

Pace Project No.: 10164570

LABORATORY CONTROL SAMPLE: 1022212

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,2,2-Tetrachloroethane	ug/L	50	45.7	91	75-125	
1,1,2-Trichloroethane	ug/L	50	47.7	95	75-125	
1,1,2-Trichlorotrifluoroethane	ug/L	50	49.3	99	75-143	
1,1-Dichloroethane	ug/L	50	52.1	104	75-135	
1,1-Dichloroethene	ug/L	50	56.3	113	75-133	
1,1-Dichloropropene	ug/L	50	53.0	106	75-131	
1,2,3-Trichlorobenzene	ug/L	50	45.1	90	73-141	
1,2,3-Trichloropropane	ug/L	50	46.6	93	75-126	
1,2,4-Trichlorobenzene	ug/L	50	45.9	92	70-148	
1,2,4-Trimethylbenzene	ug/L	50	48.0	96	75-141	
1,2-Dibromo-3-chloropropane	ug/L	50	45.7	91	64-135	
1,2-Dibromoethane (EDB)	ug/L	50	48.3	97	75-125	
1,2-Dichlorobenzene	ug/L	50	45.6	91	75-125	
1,2-Dichloroethane	ug/L	50	50.9	102	75-136	
1,2-Dichloropropane	ug/L	50	50.4	101	75-130	
1,3,5-Trimethylbenzene	ug/L	50	47.6	95	75-141	
1,3-Dichlorobenzene	ug/L	50	46.3	93	75-125	
1,3-Dichloropropane	ug/L	50	47.1	94	75-125	
1,4-Dichlorobenzene	ug/L	50	46.2	92	75-125	
2,2-Dichloropropane	ug/L	50	54.6	109	50-150	
2-Butanone (MEK)	ug/L	50	38.4	77	58-138	
2-Chloroethylvinyl ether	ug/L	125	121	97	50-150	
2-Chlorotoluene	ug/L	50	47.0	94	75-132	
2-Hexanone	ug/L	50	46.3	93	65-135	
2-Methylnaphthalene	ug/L	25	20.3	81	62-150	
4-Chlorotoluene	ug/L	50	46.7	93	75-135	
4-Methyl-2-pentanone (MIBK)	ug/L	50	48.5	97	69-137	
Acetone	ug/L	125	61.2	49	52-141	CL,L0
Acrolein	ug/L	500	489	98	50-150	
Acrylonitrile	ug/L	500	510	102	75-130	
Allyl chloride	ug/L	50	57.0	114	68-150	
Benzene	ug/L	50	51.5	103	75-125	
Bromobenzene	ug/L	50	45.7	91	75-125	
Bromochloromethane	ug/L	50	54.3	109	75-129	
Bromodichloromethane	ug/L	50	50.4	101	75-142	
Bromoform	ug/L	50	48.0	96	66-135	
Bromomethane	ug/L	50	60.1	120	57-150	
Carbon disulfide	ug/L	50	52.5	105	65-132	
Carbon tetrachloride	ug/L	50	53.7	107	75-148	
Chlorobenzene	ug/L	50	47.9	96	75-125	
Chloroethane	ug/L	50	59.3	119	66-142	
Chloroform	ug/L	50	51.5	103	75-131	
Chloromethane	ug/L	50	59.5	119	52-147	
Chloroprene	ug/L	50	52.8	106	71-147	
cis-1,2-Dichloroethene	ug/L	50	52.0	104	75-126	
cis-1,3-Dichloropropene	ug/L	50	51.2	102	69-150	
Dibromochloromethane	ug/L	50	47.9	96	73-138	
Dibromomethane	ug/L	50	49.2	98	75-127	

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QUALITY CONTROL DATA

Project: CRC City of Rochester
Pace Project No.: 10164570

LABORATORY CONTROL SAMPLE: 1022212

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Dichlorodifluoromethane	ug/L	50	62.2	124	50-150	
Dichlorofluoromethane	ug/L	50	52.5	105	75-129	
Diethyl ether (Ethyl ether)	ug/L	50	50.8	102	75-126	
Ethylbenzene	ug/L	50	48.9	98	75-132	
Hexachloro-1,3-butadiene	ug/L	25	21.2	85	75-129	
Iodomethane	ug/L	50	68.2	136	73-150	
Isopropylbenzene (Cumene)	ug/L	50	49.1	98	75-142	
m&p-Xylene	ug/L	100	97.4	97	75-131	
Methyl-tert-butyl ether	ug/L	50	50.1	100	75-130	
Methylene Chloride	ug/L	50	50.2	100	71-125	
n-Butylbenzene	ug/L	50	47.1	94	70-148	
n-Propylbenzene	ug/L	50	48.2	96	75-136	
Naphthalene	ug/L	50	45.9	92	69-145	
o-Xylene	ug/L	50	48.2	96	75-129	
p-Isopropyltoluene	ug/L	50	47.9	96	75-132	
sec-Butylbenzene	ug/L	50	47.7	95	75-136	
Styrene	ug/L	50	48.5	97	75-125	
tert-Butylbenzene	ug/L	50	47.4	95	75-135	
Tetrachloroethene	ug/L	50	47.3	95	75-125	
Tetrahydrofuran	ug/L	500	501	100	63-144	
Toluene	ug/L	50	48.8	98	75-125	
trans-1,2-Dichloroethene	ug/L	50	52.3	105	72-135	
trans-1,3-Dichloropropene	ug/L	50	49.6	99	62-150	
Trichloroethene	ug/L	50	50.2	100	75-125	
Trichlorofluoromethane	ug/L	50	57.1	114	67-150	
Vinyl acetate	ug/L	50	56.7	113	55-150	
Vinyl chloride	ug/L	50	58.8	118	63-147	
Xylene (Total)	ug/L	150	146	97	75-130	
1,2-Dichloroethane-d4 (S)	%			99	75-125	
4-Bromofluorobenzene (S)	%			99	75-125	
Dibromofluoromethane (S)	%			100	75-125	
Toluene-d8 (S)	%			97	75-125	

MATRIX SPIKE SAMPLE: 1024409

Parameter	Units	10164570001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	50	49.2	98	70-136	
1,1,1-Trichloroethane	ug/L	ND	50	56.6	113	68-150	
1,1,2,2-Tetrachloroethane	ug/L	ND	50	48.9	98	75-125	
1,1,2-Trichloroethane	ug/L	ND	50	49.2	98	75-125	
1,1,2-Trichlorotrifluoroethane	ug/L	ND	50	66.9	134	75-150	
1,1-Dichloroethane	ug/L	ND	50	54.5	109	67-143	
1,1-Dichloroethene	ug/L	ND	50	62.1	124	75-147	
1,1-Dichloropropene	ug/L	ND	50	58.8	118	75-141	
1,2,3-Trichlorobenzene	ug/L	ND	50	46.2	92	71-141	
1,2,3-Trichloropropane	ug/L	ND	50	49.3	99	75-128	
1,2,4-Trichlorobenzene	ug/L	ND	50	47.4	95	61-148	

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QUALITY CONTROL DATA

Project: CRC City of Rochester

Pace Project No.: 10164570

MATRIX SPIKE SAMPLE:		1024409						
Parameter	Units	10164570001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers	
1,2,4-Trimethylbenzene	ug/L	ND	50	49.1	98	65-145		
1,2-Dibromo-3-chloropropane	ug/L	ND	50	48.6	97	64-135		
1,2-Dibromoethane (EDB)	ug/L	ND	50	49.1	98	75-126		
1,2-Dichlorobenzene	ug/L	ND	50	47.2	94	75-127		
1,2-Dichloroethane	ug/L	ND	50	52.3	105	70-138		
1,2-Dichloropropane	ug/L	ND	50	52.2	104	75-130		
1,3,5-Trimethylbenzene	ug/L	ND	50	48.8	98	61-150		
1,3-Dichlorobenzene	ug/L	ND	50	47.2	94	75-126		
1,3-Dichloropropane	ug/L	ND	50	47.7	95	75-125		
1,4-Dichlorobenzene	ug/L	ND	50	47.4	95	75-125		
2,2-Dichloropropane	ug/L	ND	50	61.0	122	50-150		
2-Butanone (MEK)	ug/L	ND	50	39.8	80	50-141		
2-Chloroethylvinyl ether	ug/L	ND	125	21.7	17	50-150	M1	
2-Chlorotoluene	ug/L	ND	50	49.0	98	75-137		
2-Hexanone	ug/L	ND	50	47.9	96	66-135		
2-Methylnaphthalene	ug/L	ND	25	20.8	83	62-150		
4-Chlorotoluene	ug/L	ND	50	50.0	100	70-144		
4-Methyl-2-pentanone (MIBK)	ug/L	ND	50	49.4	99	62-142		
Acetone	ug/L	ND	125	64.4	51	50-150	CL	
Acrolein	ug/L	ND	500	521	104	50-150		
Acrylonitrile	ug/L	ND	500	531	106	70-135		
Allyl chloride	ug/L	ND	50	61.7	123	50-150		
Benzene	ug/L	ND	50	54.2	108	75-125		
Bromobenzene	ug/L	ND	50	48.2	96	75-125		
Bromochloromethane	ug/L	ND	50	55.6	111	73-137		
Bromodichloromethane	ug/L	ND	50	51.1	102	70-142		
Bromoform	ug/L	ND	50	49.5	99	55-135		
Bromomethane	ug/L	ND	50	64.1	128	50-150		
Carbon disulfide	ug/L	ND	50	58.2	116	50-150		
Carbon tetrachloride	ug/L	ND	50	59.7	119	64-150		
Chlorobenzene	ug/L	ND	50	49.0	98	75-125		
Chloroethane	ug/L	ND	50	59.7	119	59-150		
Chloroform	ug/L	ND	50	53.6	107	75-132		
Chloromethane	ug/L	ND	50	62.1	124	52-150		
Chloroprene	ug/L	ND	50	57.9	116	54-150		
cis-1,2-Dichloroethene	ug/L	ND	50	53.4	107	64-144		
cis-1,3-Dichloropropene	ug/L	ND	50	51.6	103	56-150		
Dibromochloromethane	ug/L	ND	50	48.9	98	60-138		
Dibromomethane	ug/L	ND	50	50.3	101	75-127		
Dichlorodifluoromethane	ug/L	ND	50	78.4	157	50-150	M1	
Dichlorofluoromethane	ug/L	ND	50	55.7	111	74-142		
Diethyl ether (Ethyl ether)	ug/L	ND	50	52.3	105	75-127		
Ethylbenzene	ug/L	ND	50	50.5	101	75-134		
Hexachloro-1,3-butadiene	ug/L	ND	25	22.9	92	63-150		
Iodomethane	ug/L	ND	50	64.8	130	50-150		
Isopropylbenzene (Cumene)	ug/L	ND	50	50.2	100	69-147		
m&p-Xylene	ug/L	ND	100	101	101	75-133		
Methyl-tert-butyl ether	ug/L	ND	50	51.8	104	73-131		

QUALITY CONTROL DATA

Project: CRC City of Rochester

Pace Project No.: 10164570

MATRIX SPIKE SAMPLE: 1024409		10164570001	Spike	MS	MS	% Rec	
Parameter	Units	Result	Conc.	Result	% Rec	Limits	Qualifiers
Methylene Chloride	ug/L	ND	50	50.4	101	68-126	
n-Butylbenzene	ug/L	ND	50	48.8	98	59-150	
n-Propylbenzene	ug/L	ND	50	50.4	101	72-143	
Naphthalene	ug/L	ND	50	47.6	95	57-148	
o-Xylene	ug/L	ND	50	49.4	99	75-131	
p-Isopropyltoluene	ug/L	ND	50	49.0	98	75-137	
sec-Butylbenzene	ug/L	ND	50	49.4	99	75-144	
Styrene	ug/L	ND	50	49.4	99	75-134	
tert-Butylbenzene	ug/L	ND	50	48.7	97	68-150	
Tetrachloroethene	ug/L	37.0	50	86.3	99	75-130	
Tetrahydrofuran	ug/L	ND	500	520	104	60-148	
Toluene	ug/L	ND	50	50.9	102	75-125	
trans-1,2-Dichloroethene	ug/L	ND	50	56.5	113	75-145	
trans-1,3-Dichloropropene	ug/L	ND	50	50.9	102	50-150	
Trichloroethene	ug/L	ND	50	54.2	108	73-132	
Trichlorofluoromethane	ug/L	ND	50	64.0	128	67-150	
Vinyl acetate	ug/L	ND	50	58.7	117	50-150	
Vinyl chloride	ug/L	ND	50	60.6	121	63-150	
Xylene (Total)	ug/L	ND	150	150	100	72-138	
1,2-Dichloroethane-d4 (S)	%				99	75-125	
4-Bromofluorobenzene (S)	%				101	75-125	
Dibromofluoromethane (S)	%				101	75-125	
Toluene-d8 (S)	%				97	75-125	

SAMPLE DUPLICATE: 1024410

Parameter	Units	10164570002	Dup	RPD	Max	Qualifiers
		Result	Result		RPD	
1,1,1,2-Tetrachloroethane	ug/L	ND	ND		30	
1,1,1-Trichloroethane	ug/L	ND	ND		30	
1,1,2,2-Tetrachloroethane	ug/L	ND	ND		30	
1,1,2-Trichloroethane	ug/L	ND	ND		30	
1,1,2-Trichlorotrifluoroethane	ug/L	ND	ND		30	
1,1-Dichloroethane	ug/L	ND	ND		30	
1,1-Dichloroethene	ug/L	ND	ND		30	
1,1-Dichloropropene	ug/L	ND	ND		30	
1,2,3-Trichlorobenzene	ug/L	ND	ND		30	
1,2,3-Trichloropropane	ug/L	ND	ND		30	
1,2,4-Trichlorobenzene	ug/L	ND	ND		30	
1,2,4-Trimethylbenzene	ug/L	ND	ND		30	
1,2-Dibromo-3-chloropropane	ug/L	ND	ND		30	
1,2-Dibromoethane (EDB)	ug/L	ND	ND		30	
1,2-Dichlorobenzene	ug/L	ND	ND		30	
1,2-Dichloroethane	ug/L	ND	ND		30	
1,2-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	

Date: 08/02/2011 03:42 PM

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: CRC City of Rochester

Pace Project No.: 10164570

SAMPLE DUPLICATE: 1024410

Parameter	Units	10164570002 Result	Dup Result	RPD	Max RPD	Qualifiers
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	CL
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	
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	

Date: 08/02/2011 03:42 PM

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: CRC City of Rochester

Pace Project No.: 10164570

SAMPLE DUPLICATE: 1024410

Parameter	Units	10164570002 Result	Dup Result	RPD	Max RPD	Qualifiers
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)	%	107	107	.3		
4-Bromofluorobenzene (S)	%	100	99	.7		
Dibromofluoromethane (S)	%	105	106	.9		
Toluene-d8 (S)	%	97	97	.6		

QUALIFIERS

Project: CRC City of Rochester

Pace Project No.: 10164570

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

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

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: CRC City of Rochester

Pace Project No.: 10164570

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10164570001	AS- Influent	EPA 624	MSV/17505		
10164570002	AS- Effluent	EPA 624	MSV/17505		



CHAIN-OF-CUSTODY / Analytical Request Document

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

10164570

Page: 1 of 1

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

ITEM #	AS - I n f l i u e n t	AS - E f f l i u e n t	MATRIX CODE	SAMPLE TYPE	G-RAB C-COMP	COLLECTED			SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives	Filtered (Y/N)	Requested	Ani	Pace Project Number	Lab I.D.
						DATE	TIME	COMPOSITE ENDIGRAB								
1			DRINKING WATER	W G		7/25/11	12:00		3						001	
2			WASTE WATER	W G		7/25/11	12:02		3						002	
3			WASTE WATER													
4			WASTE WATER													
5			WASTE WATER													
6			WASTE WATER													
7			WASTE WATER													
8			WASTE WATER													

RELINQUISHED BY / AFFILIATION		DATE		ACCEPTED BY / AFFILIATION		DATE		SAMPLE CONDITIONS	
[Signature]		7/25/11		[Signature]		7/25/11		Temp in °C	
[Signature]				[Signature]				Received on	
[Signature]				[Signature]				Sealed Cooler	
[Signature]				[Signature]				Custody	
[Signature]				[Signature]				Samples Intact	

SAMPLER NAME AND SIGNATURE
 PRINT Name of SAMPLER: Eric Gabrielson
 SIGNATURE of SAMPLER: [Signature]
 DATE Signed (MM/DD/YYYY): 7/25/11

Additional Comments:

12528732



Document Name:
Sample Condition Upon Receipt Form
 Document Number:
F-L-213 Rev.01

Revised Date: 02Jun2011
 Page 1 of 1
 Issuing Authority:
 Pace Minnesota Quality Office

Sample Condition Upon Receipt

Client Name: Landmark Project # 10164570

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 5.9 Biological Tissue is Frozen: Yes No
 Temp should be above freezing to 6°C

Date and Initials of person examining contents: 7/26/11 SA

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

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

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: CDM Date: 7/27/11

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)

September 06, 2011

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

RE: Project: CRC City of Rochester
Pace Project No.: 10167933

Dear Mr. Skramstad:

Enclosed are the analytical results for sample(s) received by the laboratory on August 29, 2011. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards, where applicable, unless otherwise narrated 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



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: CRC City of Rochester

Pace Project No.: 10167933

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

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: CRC City of Rochester

Pace Project No.: 10167933

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10167933001	MW-17	Water	08/28/11 10:30	08/29/11 13:56
10167933002	MW-18	Water	08/28/11 11:30	08/29/11 13:56
10167933003	DPE-1	Water	08/28/11 13:20	08/29/11 13:56
10167933004	DPE-2	Water	08/28/11 13:55	08/29/11 13:56
10167933005	DPE-3	Water	08/28/11 14:20	08/29/11 13:56
10167933006	DPE-4	Water	08/28/11 14:55	08/29/11 13:56
10167933007	DPE-5	Water	08/28/11 15:20	08/29/11 13:56
10167933008	DPE-6	Water	08/28/11 15:55	08/29/11 13:56
10167933009	DPE-7	Water	08/28/11 16:20	08/29/11 13:56
10167933010	DPE-8	Water	08/28/11 17:00	08/29/11 13:56
10167933011	MW-15	Water	08/28/11 07:30	08/29/11 13:56
10167933012	MW-16	Water	08/28/11 08:30	08/29/11 13:56
10167933013	MW-19	Water	08/28/11 12:30	08/29/11 13:56
10167933014	MW-20	Water	08/28/11 13:00	08/29/11 13:56
10167933015	MW-14	Water	08/28/11 07:30	08/29/11 13:56
10167933016	Trip Blank	Water		08/29/11 13:56

REPORT OF LABORATORY ANALYSIS

SAMPLE ANALYTE COUNT

Project: CRC City of Rochester
Pace Project No.: 10167933

Lab ID	Sample ID	Method	Analysts	Analytes Reported
10167933001	MW-17	EPA 8260	DJT	73
10167933002	MW-18	EPA 8260	DJT	73
10167933003	DPE-1	EPA 8260	DJT, ECB	73
10167933004	DPE-2	EPA 8260	DJT	73
10167933005	DPE-3	EPA 8260	ECB	73
10167933006	DPE-4	EPA 8260	ECB	73
10167933007	DPE-5	EPA 8260	ECB	73
10167933008	DPE-6	EPA 8260	ECB	73
10167933009	DPE-7	EPA 8260	ECB	73
10167933010	DPE-8	EPA 8260	ECB	73
10167933011	MW-15	EPA 8260	ECB	73
10167933012	MW-16	EPA 8260	ECB	73
10167933013	MW-19	EPA 8260	ECB	73
10167933014	MW-20	EPA 8260	ECB	73
10167933015	MW-14	EPA 8260	ECB	73
10167933016	Trip Blank	EPA 8260	ECB	73

REPORT OF LABORATORY ANALYSIS

ANALYTICAL RESULTS

Project: CRC City of Rochester

Pace Project No.: 10167933

Sample: MW-17	Lab ID: 10167933001	Collected: 08/28/11 10:30	Received: 08/29/11 13:56	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		08/30/11 11:31	67-64-1	
Allyl chloride	ND ug/L		4.0	1		08/30/11 11:31	107-05-1	
Benzene	ND ug/L		1.0	1		08/30/11 11:31	71-43-2	
Bromobenzene	ND ug/L		1.0	1		08/30/11 11:31	108-86-1	
Bromochloromethane	ND ug/L		1.0	1		08/30/11 11:31	74-97-5	
Bromodichloromethane	ND ug/L		1.0	1		08/30/11 11:31	75-27-4	
Bromoform	ND ug/L		4.0	1		08/30/11 11:31	75-25-2	
Bromomethane	ND ug/L		4.0	1		08/30/11 11:31	74-83-9	
2-Butanone (MEK)	ND ug/L		4.0	1		08/30/11 11:31	78-93-3	
n-Butylbenzene	ND ug/L		1.0	1		08/30/11 11:31	104-51-8	
sec-Butylbenzene	ND ug/L		1.0	1		08/30/11 11:31	135-98-8	
tert-Butylbenzene	ND ug/L		1.0	1		08/30/11 11:31	98-06-6	
Carbon tetrachloride	ND ug/L		1.0	1		08/30/11 11:31	56-23-5	
Chlorobenzene	ND ug/L		1.0	1		08/30/11 11:31	108-90-7	
Chloroethane	ND ug/L		1.0	1		08/30/11 11:31	75-00-3	
Chloroform	ND ug/L		1.0	1		08/30/11 11:31	67-66-3	
Chloromethane	ND ug/L		4.0	1		08/30/11 11:31	74-87-3	
2-Chlorotoluene	ND ug/L		1.0	1		08/30/11 11:31	95-49-8	
4-Chlorotoluene	ND ug/L		1.0	1		08/30/11 11:31	106-43-4	
1,2-Dibromo-3-chloropropane	ND ug/L		4.0	1		08/30/11 11:31	96-12-8	
Dibromochloromethane	ND ug/L		1.0	1		08/30/11 11:31	124-48-1	
1,2-Dibromoethane (EDB)	ND ug/L		1.0	1		08/30/11 11:31	106-93-4	
Dibromomethane	ND ug/L		4.0	1		08/30/11 11:31	74-95-3	
1,2-Dichlorobenzene	ND ug/L		1.0	1		08/30/11 11:31	95-50-1	
1,3-Dichlorobenzene	ND ug/L		1.0	1		08/30/11 11:31	541-73-1	
1,4-Dichlorobenzene	ND ug/L		1.0	1		08/30/11 11:31	106-46-7	
Dichlorodifluoromethane	ND ug/L		1.0	1		08/30/11 11:31	75-71-8	
1,1-Dichloroethane	ND ug/L		1.0	1		08/30/11 11:31	75-34-3	
1,2-Dichloroethane	ND ug/L		1.0	1		08/30/11 11:31	107-06-2	
1,1-Dichloroethene	ND ug/L		1.0	1		08/30/11 11:31	75-35-4	
cis-1,2-Dichloroethene	1.3 ug/L		1.0	1		08/30/11 11:31	156-59-2	
trans-1,2-Dichloroethene	ND ug/L		4.0	1		08/30/11 11:31	156-60-5	
Dichlorofluoromethane	ND ug/L		1.0	1		08/30/11 11:31	75-43-4	
1,2-Dichloropropane	ND ug/L		4.0	1		08/30/11 11:31	78-87-5	
1,3-Dichloropropane	ND ug/L		1.0	1		08/30/11 11:31	142-28-9	
2,2-Dichloropropane	ND ug/L		4.0	1		08/30/11 11:31	594-20-7	
1,1-Dichloropropene	ND ug/L		1.0	1		08/30/11 11:31	563-58-6	
cis-1,3-Dichloropropene	ND ug/L		4.0	1		08/30/11 11:31	10061-01-5	
trans-1,3-Dichloropropene	ND ug/L		4.0	1		08/30/11 11:31	10061-02-6	
Diethyl ether (Ethyl ether)	ND ug/L		4.0	1		08/30/11 11:31	60-29-7	
Ethylbenzene	ND ug/L		1.0	1		08/30/11 11:31	100-41-4	
Hexachloro-1,3-butadiene	ND ug/L		5.0	1		08/30/11 11:31	87-68-3	
Isopropylbenzene (Cumene)	ND ug/L		1.0	1		08/30/11 11:31	98-82-8	
p-Isopropyltoluene	ND ug/L		1.0	1		08/30/11 11:31	99-87-6	
Methylene Chloride	ND ug/L		4.0	1		08/30/11 11:31	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND ug/L		4.0	1		08/30/11 11:31	108-10-1	
Methyl-tert-butyl ether	ND ug/L		1.0	1		08/30/11 11:31	1634-04-4	

Date: 09/06/2011 04:00 PM

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: CRC City of Rochester

Pace Project No.: 10167933

Sample: MW-17		Lab ID: 10167933001	Collected: 08/28/11 10:30	Received: 08/29/11 13:56	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		08/30/11 11:31	91-20-3	
n-Propylbenzene	ND	ug/L	1.0	1		08/30/11 11:31	103-65-1	
Styrene	ND	ug/L	1.0	1		08/30/11 11:31	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		08/30/11 11:31	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		08/30/11 11:31	79-34-5	
Tetrachloroethene	107	ug/L	1.0	1		08/30/11 11:31	127-18-4	
Tetrahydrofuran	ND	ug/L	10.0	1		08/30/11 11:31	109-99-9	
Toluene	ND	ug/L	1.0	1		08/30/11 11:31	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		08/30/11 11:31	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		08/30/11 11:31	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		08/30/11 11:31	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		08/30/11 11:31	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		08/30/11 11:31	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		08/30/11 11:31	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	4.0	1		08/30/11 11:31	96-18-4	
1,1,2-Trichlorotrifluoroethane	6.5	ug/L	1.0	1		08/30/11 11:31	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1		08/30/11 11:31	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1		08/30/11 11:31	108-67-8	
Vinyl chloride	ND	ug/L	0.40	1		08/30/11 11:31	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		08/30/11 11:31	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		08/30/11 11:31	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		08/30/11 11:31	95-47-6	
Dibromofluoromethane (S)	105	%	75-125	1		08/30/11 11:31	1868-53-7	
1,2-Dichloroethane-d4 (S)	99	%	75-125	1		08/30/11 11:31	17060-07-0	
Toluene-d8 (S)	102	%	75-125	1		08/30/11 11:31	2037-26-5	
4-Bromofluorobenzene (S)	96	%	75-125	1		08/30/11 11:31	460-00-4	

ANALYTICAL RESULTS

Project: CRC City of Rochester

Pace Project No.: 10167933

Sample: MW-18	Lab ID: 10167933002	Collected: 08/28/11 11:30	Received: 08/29/11 13:56	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		08/30/11 11:15	67-64-1	
Allyl chloride	ND ug/L		4.0	1		08/30/11 11:15	107-05-1	M1
Benzene	ND ug/L		1.0	1		08/30/11 11:15	71-43-2	
Bromobenzene	ND ug/L		1.0	1		08/30/11 11:15	108-86-1	
Bromochloromethane	ND ug/L		1.0	1		08/30/11 11:15	74-97-5	
Bromodichloromethane	ND ug/L		1.0	1		08/30/11 11:15	75-27-4	
Bromoform	ND ug/L		4.0	1		08/30/11 11:15	75-25-2	
Bromomethane	ND ug/L		4.0	1		08/30/11 11:15	74-83-9	
2-Butanone (MEK)	ND ug/L		4.0	1		08/30/11 11:15	78-93-3	
n-Butylbenzene	ND ug/L		1.0	1		08/30/11 11:15	104-51-8	
sec-Butylbenzene	ND ug/L		1.0	1		08/30/11 11:15	135-98-8	
tert-Butylbenzene	ND ug/L		1.0	1		08/30/11 11:15	98-06-6	
Carbon tetrachloride	ND ug/L		1.0	1		08/30/11 11:15	56-23-5	
Chlorobenzene	ND ug/L		1.0	1		08/30/11 11:15	108-90-7	
Chloroethane	ND ug/L		1.0	1		08/30/11 11:15	75-00-3	M1
Chloroform	ND ug/L		1.0	1		08/30/11 11:15	67-66-3	
Chloromethane	ND ug/L		4.0	1		08/30/11 11:15	74-87-3	
2-Chlorotoluene	ND ug/L		1.0	1		08/30/11 11:15	95-49-8	
4-Chlorotoluene	ND ug/L		1.0	1		08/30/11 11:15	106-43-4	
1,2-Dibromo-3-chloropropane	ND ug/L		4.0	1		08/30/11 11:15	96-12-8	
Dibromochloromethane	ND ug/L		1.0	1		08/30/11 11:15	124-48-1	
1,2-Dibromoethane (EDB)	ND ug/L		1.0	1		08/30/11 11:15	106-93-4	
Dibromomethane	ND ug/L		4.0	1		08/30/11 11:15	74-95-3	
1,2-Dichlorobenzene	ND ug/L		1.0	1		08/30/11 11:15	95-50-1	
1,3-Dichlorobenzene	ND ug/L		1.0	1		08/30/11 11:15	541-73-1	
1,4-Dichlorobenzene	ND ug/L		1.0	1		08/30/11 11:15	106-46-7	
Dichlorodifluoromethane	ND ug/L		1.0	1		08/30/11 11:15	75-71-8	
1,1-Dichloroethane	ND ug/L		1.0	1		08/30/11 11:15	75-34-3	
1,2-Dichloroethane	ND ug/L		1.0	1		08/30/11 11:15	107-06-2	
1,1-Dichloroethene	ND ug/L		1.0	1		08/30/11 11:15	75-35-4	M1
cis-1,2-Dichloroethene	ND ug/L		1.0	1		08/30/11 11:15	156-59-2	M1
trans-1,2-Dichloroethene	ND ug/L		4.0	1		08/30/11 11:15	156-60-5	M1
Dichlorofluoromethane	ND ug/L		1.0	1		08/30/11 11:15	75-43-4	M1
1,2-Dichloropropane	ND ug/L		4.0	1		08/30/11 11:15	78-87-5	
1,3-Dichloropropane	ND ug/L		1.0	1		08/30/11 11:15	142-28-9	
2,2-Dichloropropane	ND ug/L		4.0	1		08/30/11 11:15	594-20-7	
1,1-Dichloropropene	ND ug/L		1.0	1		08/30/11 11:15	563-58-6	M1
cis-1,3-Dichloropropene	ND ug/L		4.0	1		08/30/11 11:15	10061-01-5	
trans-1,3-Dichloropropene	ND ug/L		4.0	1		08/30/11 11:15	10061-02-6	
Diethyl ether (Ethyl ether)	ND ug/L		4.0	1		08/30/11 11:15	60-29-7	
Ethylbenzene	ND ug/L		1.0	1		08/30/11 11:15	100-41-4	
Hexachloro-1,3-butadiene	ND ug/L		5.0	1		08/30/11 11:15	87-68-3	
Isopropylbenzene (Cumene)	ND ug/L		1.0	1		08/30/11 11:15	98-82-8	
p-Isopropyltoluene	ND ug/L		1.0	1		08/30/11 11:15	99-87-6	
Methylene Chloride	ND ug/L		4.0	1		08/30/11 11:15	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND ug/L		4.0	1		08/30/11 11:15	108-10-1	
Methyl-tert-butyl ether	ND ug/L		1.0	1		08/30/11 11:15	1634-04-4	

Date: 09/06/2011 04:00 PM

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: CRC City of Rochester

Pace Project No.: 10167933

Sample: MW-18	Lab ID: 10167933002	Collected: 08/28/11 11:30	Received: 08/29/11 13:56	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		08/30/11 11:15	91-20-3	
n-Propylbenzene	ND ug/L		1.0	1		08/30/11 11:15	103-65-1	
Styrene	ND ug/L		1.0	1		08/30/11 11:15	100-42-5	
1,1,1,2-Tetrachloroethane	ND ug/L		1.0	1		08/30/11 11:15	630-20-6	
1,1,2,2-Tetrachloroethane	ND ug/L		1.0	1		08/30/11 11:15	79-34-5	
Tetrachloroethene	3.6 ug/L		1.0	1		08/30/11 11:15	127-18-4	
Tetrahydrofuran	ND ug/L		10.0	1		08/30/11 11:15	109-99-9	
Toluene	ND ug/L		1.0	1		08/30/11 11:15	108-88-3	
1,2,3-Trichlorobenzene	ND ug/L		1.0	1		08/30/11 11:15	87-61-6	
1,2,4-Trichlorobenzene	ND ug/L		1.0	1		08/30/11 11:15	120-82-1	
1,1,1-Trichloroethane	ND ug/L		1.0	1		08/30/11 11:15	71-55-6	
1,1,2-Trichloroethane	ND ug/L		1.0	1		08/30/11 11:15	79-00-5	
Trichloroethene	ND ug/L		1.0	1		08/30/11 11:15	79-01-6	M1
Trichlorofluoromethane	ND ug/L		1.0	1		08/30/11 11:15	75-69-4	M1
1,2,3-Trichloropropane	ND ug/L		4.0	1		08/30/11 11:15	96-18-4	
1,1,2-Trichlorotrifluoroethane	ND ug/L		1.0	1		08/30/11 11:15	76-13-1	
1,2,4-Trimethylbenzene	ND ug/L		1.0	1		08/30/11 11:15	95-63-6	
1,3,5-Trimethylbenzene	ND ug/L		1.0	1		08/30/11 11:15	108-67-8	
Vinyl chloride	ND ug/L		0.40	1		08/30/11 11:15	75-01-4	
Xylene (Total)	ND ug/L		3.0	1		08/30/11 11:15	1330-20-7	
m&p-Xylene	ND ug/L		2.0	1		08/30/11 11:15	179601-23-1	
o-Xylene	ND ug/L		1.0	1		08/30/11 11:15	95-47-6	
Dibromofluoromethane (S)	106 %		75-125	1		08/30/11 11:15	1868-53-7	
1,2-Dichloroethane-d4 (S)	99 %		75-125	1		08/30/11 11:15	17060-07-0	
Toluene-d8 (S)	101 %		75-125	1		08/30/11 11:15	2037-26-5	
4-Bromofluorobenzene (S)	92 %		75-125	1		08/30/11 11:15	460-00-4	

ANALYTICAL RESULTS

Project: CRC City of Rochester

Pace Project No.: 10167933

Sample: DPE-1	Lab ID: 10167933003	Collected: 08/28/11 13:20	Received: 08/29/11 13:56	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		08/31/11 13:34	67-64-1	CL
Allyl chloride	ND ug/L		4.0	1		08/31/11 13:34	107-05-1	
Benzene	ND ug/L		1.0	1		08/31/11 13:34	71-43-2	
Bromobenzene	ND ug/L		1.0	1		08/31/11 13:34	108-86-1	
Bromochloromethane	ND ug/L		1.0	1		08/31/11 13:34	74-97-5	
Bromodichloromethane	ND ug/L		1.0	1		08/31/11 13:34	75-27-4	
Bromoform	ND ug/L		4.0	1		08/31/11 13:34	75-25-2	
Bromomethane	ND ug/L		4.0	1		08/31/11 13:34	74-83-9	
2-Butanone (MEK)	ND ug/L		4.0	1		08/31/11 13:34	78-93-3	
n-Butylbenzene	ND ug/L		1.0	1		08/31/11 13:34	104-51-8	
sec-Butylbenzene	ND ug/L		1.0	1		08/31/11 13:34	135-98-8	
tert-Butylbenzene	ND ug/L		1.0	1		08/31/11 13:34	98-06-6	
Carbon tetrachloride	ND ug/L		1.0	1		08/31/11 13:34	56-23-5	
Chlorobenzene	ND ug/L		1.0	1		08/31/11 13:34	108-90-7	
Chloroethane	ND ug/L		1.0	1		08/31/11 13:34	75-00-3	
Chloroform	ND ug/L		1.0	1		08/31/11 13:34	67-66-3	
Chloromethane	ND ug/L		4.0	1		08/31/11 13:34	74-87-3	
2-Chlorotoluene	ND ug/L		1.0	1		08/31/11 13:34	95-49-8	
4-Chlorotoluene	ND ug/L		1.0	1		08/31/11 13:34	106-43-4	
1,2-Dibromo-3-chloropropane	ND ug/L		4.0	1		08/31/11 13:34	96-12-8	
Dibromochloromethane	ND ug/L		1.0	1		08/31/11 13:34	124-48-1	
1,2-Dibromoethane (EDB)	ND ug/L		1.0	1		08/31/11 13:34	106-93-4	
Dibromomethane	ND ug/L		4.0	1		08/31/11 13:34	74-95-3	
1,2-Dichlorobenzene	ND ug/L		1.0	1		08/31/11 13:34	95-50-1	
1,3-Dichlorobenzene	ND ug/L		1.0	1		08/31/11 13:34	541-73-1	
1,4-Dichlorobenzene	ND ug/L		1.0	1		08/31/11 13:34	106-46-7	
Dichlorodifluoromethane	ND ug/L		1.0	1		08/31/11 13:34	75-71-8	
1,1-Dichloroethane	ND ug/L		1.0	1		08/31/11 13:34	75-34-3	
1,2-Dichloroethane	ND ug/L		1.0	1		08/31/11 13:34	107-06-2	
1,1-Dichloroethene	ND ug/L		1.0	1		08/31/11 13:34	75-35-4	
cis-1,2-Dichloroethene	2.9 ug/L		1.0	1		08/31/11 13:34	156-59-2	
trans-1,2-Dichloroethene	ND ug/L		4.0	1		08/31/11 13:34	156-60-5	
Dichlorofluoromethane	ND ug/L		1.0	1		08/31/11 13:34	75-43-4	
1,2-Dichloropropane	ND ug/L		4.0	1		08/31/11 13:34	78-87-5	
1,3-Dichloropropane	ND ug/L		1.0	1		08/31/11 13:34	142-28-9	
2,2-Dichloropropane	ND ug/L		4.0	1		08/31/11 13:34	594-20-7	
1,1-Dichloropropene	ND ug/L		1.0	1		08/31/11 13:34	563-58-6	
cis-1,3-Dichloropropene	ND ug/L		4.0	1		08/31/11 13:34	10061-01-5	
trans-1,3-Dichloropropene	ND ug/L		4.0	1		08/31/11 13:34	10061-02-6	
Diethyl ether (Ethyl ether)	ND ug/L		4.0	1		08/31/11 13:34	60-29-7	
Ethylbenzene	ND ug/L		1.0	1		08/31/11 13:34	100-41-4	
Hexachloro-1,3-butadiene	ND ug/L		5.0	1		08/31/11 13:34	87-68-3	
Isopropylbenzene (Cumene)	ND ug/L		1.0	1		08/31/11 13:34	98-82-8	
p-Isopropyltoluene	ND ug/L		1.0	1		08/31/11 13:34	99-87-6	
Methylene Chloride	ND ug/L		4.0	1		08/31/11 13:34	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND ug/L		4.0	1		08/31/11 13:34	108-10-1	
Methyl-tert-butyl ether	ND ug/L		1.0	1		08/31/11 13:34	1634-04-4	

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REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: CRC City of Rochester

Pace Project No.: 10167933

Sample: DPE-1		Lab ID: 10167933003	Collected: 08/28/11 13:20	Received: 08/29/11 13:56	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		08/31/11 13:34	91-20-3	
n-Propylbenzene	ND	ug/L	1.0	1		08/31/11 13:34	103-65-1	
Styrene	ND	ug/L	1.0	1		08/31/11 13:34	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		08/31/11 13:34	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		08/31/11 13:34	79-34-5	
Tetrachloroethene	309	ug/L	2.0	2		09/02/11 15:30	127-18-4	
Tetrahydrofuran	ND	ug/L	10.0	1		08/31/11 13:34	109-99-9	
Toluene	ND	ug/L	1.0	1		08/31/11 13:34	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		08/31/11 13:34	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		08/31/11 13:34	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		08/31/11 13:34	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		08/31/11 13:34	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		08/31/11 13:34	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		08/31/11 13:34	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	4.0	1		08/31/11 13:34	96-18-4	
1,1,2-Trichlorotrifluoroethane	9.5	ug/L	1.0	1		08/31/11 13:34	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1		08/31/11 13:34	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1		08/31/11 13:34	108-67-8	
Vinyl chloride	ND	ug/L	0.40	1		08/31/11 13:34	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		08/31/11 13:34	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		08/31/11 13:34	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		08/31/11 13:34	95-47-6	
Dibromofluoromethane (S)	106	%	75-125	1		08/31/11 13:34	1868-53-7	
1,2-Dichloroethane-d4 (S)	106	%	75-125	1		08/31/11 13:34	17060-07-0	
Toluene-d8 (S)	96	%	75-125	1		08/31/11 13:34	2037-26-5	
4-Bromofluorobenzene (S)	100	%	75-125	1		08/31/11 13:34	460-00-4	

ANALYTICAL RESULTS

Project: CRC City of Rochester

Pace Project No.: 10167933

Sample: DPE-2	Lab ID: 10167933004	Collected: 08/28/11 13:55	Received: 08/29/11 13:56	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		08/30/11 13:56	67-64-1	
Allyl chloride	ND	ug/L	40.0	10		08/30/11 13:56	107-05-1	
Benzene	ND	ug/L	10.0	10		08/30/11 13:56	71-43-2	
Bromobenzene	ND	ug/L	10.0	10		08/30/11 13:56	108-86-1	
Bromochloromethane	ND	ug/L	10.0	10		08/30/11 13:56	74-97-5	
Bromodichloromethane	ND	ug/L	10.0	10		08/30/11 13:56	75-27-4	
Bromoform	ND	ug/L	40.0	10		08/30/11 13:56	75-25-2	
Bromomethane	ND	ug/L	40.0	10		08/30/11 13:56	74-83-9	
2-Butanone (MEK)	ND	ug/L	40.0	10		08/30/11 13:56	78-93-3	
n-Butylbenzene	ND	ug/L	10.0	10		08/30/11 13:56	104-51-8	
sec-Butylbenzene	ND	ug/L	10.0	10		08/30/11 13:56	135-98-8	
tert-Butylbenzene	ND	ug/L	10.0	10		08/30/11 13:56	98-06-6	
Carbon tetrachloride	ND	ug/L	10.0	10		08/30/11 13:56	56-23-5	
Chlorobenzene	ND	ug/L	10.0	10		08/30/11 13:56	108-90-7	
Chloroethane	ND	ug/L	10.0	10		08/30/11 13:56	75-00-3	
Chloroform	ND	ug/L	10.0	10		08/30/11 13:56	67-66-3	
Chloromethane	ND	ug/L	40.0	10		08/30/11 13:56	74-87-3	
2-Chlorotoluene	ND	ug/L	10.0	10		08/30/11 13:56	95-49-8	
4-Chlorotoluene	ND	ug/L	10.0	10		08/30/11 13:56	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	40.0	10		08/30/11 13:56	96-12-8	
Dibromochloromethane	ND	ug/L	10.0	10		08/30/11 13:56	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	10.0	10		08/30/11 13:56	106-93-4	
Dibromomethane	ND	ug/L	40.0	10		08/30/11 13:56	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	10.0	10		08/30/11 13:56	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	10.0	10		08/30/11 13:56	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	10.0	10		08/30/11 13:56	106-46-7	
Dichlorodifluoromethane	ND	ug/L	10.0	10		08/30/11 13:56	75-71-8	
1,1-Dichloroethane	ND	ug/L	10.0	10		08/30/11 13:56	75-34-3	
1,2-Dichloroethane	ND	ug/L	10.0	10		08/30/11 13:56	107-06-2	
1,1-Dichloroethene	ND	ug/L	10.0	10		08/30/11 13:56	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	10.0	10		08/30/11 13:56	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	40.0	10		08/30/11 13:56	156-60-5	
Dichlorofluoromethane	ND	ug/L	10.0	10		08/30/11 13:56	75-43-4	
1,2-Dichloropropane	ND	ug/L	40.0	10		08/30/11 13:56	78-87-5	
1,3-Dichloropropane	ND	ug/L	10.0	10		08/30/11 13:56	142-28-9	
2,2-Dichloropropane	ND	ug/L	40.0	10		08/30/11 13:56	594-20-7	
1,1-Dichloropropene	ND	ug/L	10.0	10		08/30/11 13:56	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	40.0	10		08/30/11 13:56	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	40.0	10		08/30/11 13:56	10061-02-6	
Diethyl ether (Ethyl ether)	ND	ug/L	40.0	10		08/30/11 13:56	60-29-7	
Ethylbenzene	ND	ug/L	10.0	10		08/30/11 13:56	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	50.0	10		08/30/11 13:56	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	10.0	10		08/30/11 13:56	98-82-8	
p-Isopropyltoluene	ND	ug/L	10.0	10		08/30/11 13:56	99-87-6	
Methylene Chloride	ND	ug/L	40.0	10		08/30/11 13:56	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	40.0	10		08/30/11 13:56	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	10.0	10		08/30/11 13:56	1634-04-4	

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ANALYTICAL RESULTS

Project: CRC City of Rochester

Pace Project No.: 10167933

Sample: DPE-2		Lab ID: 10167933004	Collected: 08/28/11 13:55	Received: 08/29/11 13:56	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		08/30/11 13:56	91-20-3	
n-Propylbenzene	ND	ug/L	10.0	10		08/30/11 13:56	103-65-1	
Styrene	ND	ug/L	10.0	10		08/30/11 13:56	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	10.0	10		08/30/11 13:56	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	10.0	10		08/30/11 13:56	79-34-5	
Tetrachloroethene	2080	ug/L	10.0	10		08/30/11 13:56	127-18-4	
Tetrahydrofuran	ND	ug/L	100	10		08/30/11 13:56	109-99-9	
Toluene	ND	ug/L	10.0	10		08/30/11 13:56	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	10.0	10		08/30/11 13:56	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	10.0	10		08/30/11 13:56	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	10.0	10		08/30/11 13:56	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	10.0	10		08/30/11 13:56	79-00-5	
Trichloroethene	ND	ug/L	10.0	10		08/30/11 13:56	79-01-6	
Trichlorofluoromethane	ND	ug/L	10.0	10		08/30/11 13:56	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	40.0	10		08/30/11 13:56	96-18-4	
1,1,2-Trichlorotrifluoroethane	212	ug/L	10.0	10		08/30/11 13:56	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/L	10.0	10		08/30/11 13:56	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	10.0	10		08/30/11 13:56	108-67-8	
Vinyl chloride	ND	ug/L	4.0	10		08/30/11 13:56	75-01-4	
Xylene (Total)	ND	ug/L	30.0	10		08/30/11 13:56	1330-20-7	
m&p-Xylene	ND	ug/L	20.0	10		08/30/11 13:56	179601-23-1	
o-Xylene	ND	ug/L	10.0	10		08/30/11 13:56	95-47-6	
Dibromofluoromethane (S)	108	%	75-125	10		08/30/11 13:56	1868-53-7	
1,2-Dichloroethane-d4 (S)	103	%	75-125	10		08/30/11 13:56	17060-07-0	
Toluene-d8 (S)	102	%	75-125	10		08/30/11 13:56	2037-26-5	
4-Bromofluorobenzene (S)	93	%	75-125	10		08/30/11 13:56	460-00-4	

ANALYTICAL RESULTS

Project: CRC City of Rochester
Pace Project No.: 10167933

Sample: DPE-3	Lab ID: 10167933005	Collected: 08/28/11 14:20	Received: 08/29/11 13:56	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 VOC		Analytical Method: EPA 8260						
Acetone	ND ug/L		625	25		08/31/11 14:56	67-64-1	CL
Allyl chloride	ND ug/L		100	25		08/31/11 14:56	107-05-1	
Benzene	ND ug/L		25.0	25		08/31/11 14:56	71-43-2	
Bromobenzene	ND ug/L		25.0	25		08/31/11 14:56	108-86-1	
Bromochloromethane	ND ug/L		25.0	25		08/31/11 14:56	74-97-5	
Bromodichloromethane	ND ug/L		25.0	25		08/31/11 14:56	75-27-4	
Bromoform	ND ug/L		100	25		08/31/11 14:56	75-25-2	
Bromomethane	ND ug/L		100	25		08/31/11 14:56	74-83-9	
2-Butanone (MEK)	ND ug/L		100	25		08/31/11 14:56	78-93-3	
n-Butylbenzene	ND ug/L		25.0	25		08/31/11 14:56	104-51-8	
sec-Butylbenzene	ND ug/L		25.0	25		08/31/11 14:56	135-98-8	
tert-Butylbenzene	ND ug/L		25.0	25		08/31/11 14:56	98-06-6	
Carbon tetrachloride	ND ug/L		25.0	25		08/31/11 14:56	56-23-5	
Chlorobenzene	ND ug/L		25.0	25		08/31/11 14:56	108-90-7	
Chloroethane	ND ug/L		25.0	25		08/31/11 14:56	75-00-3	
Chloroform	ND ug/L		25.0	25		08/31/11 14:56	67-66-3	
Chloromethane	ND ug/L		100	25		08/31/11 14:56	74-87-3	
2-Chlorotoluene	ND ug/L		25.0	25		08/31/11 14:56	95-49-8	
4-Chlorotoluene	ND ug/L		25.0	25		08/31/11 14:56	106-43-4	
1,2-Dibromo-3-chloropropane	ND ug/L		100	25		08/31/11 14:56	96-12-8	
Dibromochloromethane	ND ug/L		25.0	25		08/31/11 14:56	124-48-1	
1,2-Dibromoethane (EDB)	ND ug/L		25.0	25		08/31/11 14:56	106-93-4	
Dibromomethane	ND ug/L		100	25		08/31/11 14:56	74-95-3	
1,2-Dichlorobenzene	ND ug/L		25.0	25		08/31/11 14:56	95-50-1	
1,3-Dichlorobenzene	ND ug/L		25.0	25		08/31/11 14:56	541-73-1	
1,4-Dichlorobenzene	ND ug/L		25.0	25		08/31/11 14:56	106-46-7	
Dichlorodifluoromethane	ND ug/L		25.0	25		08/31/11 14:56	75-71-8	
1,1-Dichloroethane	ND ug/L		25.0	25		08/31/11 14:56	75-34-3	
1,2-Dichloroethane	ND ug/L		25.0	25		08/31/11 14:56	107-06-2	
1,1-Dichloroethene	ND ug/L		25.0	25		08/31/11 14:56	75-35-4	
cis-1,2-Dichloroethene	ND ug/L		25.0	25		08/31/11 14:56	156-59-2	
trans-1,2-Dichloroethene	ND ug/L		100	25		08/31/11 14:56	156-60-5	
Dichlorofluoromethane	ND ug/L		25.0	25		08/31/11 14:56	75-43-4	
1,2-Dichloropropane	ND ug/L		100	25		08/31/11 14:56	78-87-5	
1,3-Dichloropropane	ND ug/L		25.0	25		08/31/11 14:56	142-28-9	
2,2-Dichloropropane	ND ug/L		100	25		08/31/11 14:56	594-20-7	
1,1-Dichloropropene	ND ug/L		25.0	25		08/31/11 14:56	563-58-6	
cis-1,3-Dichloropropene	ND ug/L		100	25		08/31/11 14:56	10061-01-5	
trans-1,3-Dichloropropene	ND ug/L		100	25		08/31/11 14:56	10061-02-6	
Diethyl ether (Ethyl ether)	ND ug/L		100	25		08/31/11 14:56	60-29-7	
Ethylbenzene	ND ug/L		25.0	25		08/31/11 14:56	100-41-4	
Hexachloro-1,3-butadiene	ND ug/L		125	25		08/31/11 14:56	87-68-3	
Isopropylbenzene (Cumene)	ND ug/L		25.0	25		08/31/11 14:56	98-82-8	
p-Isopropyltoluene	ND ug/L		25.0	25		08/31/11 14:56	99-87-6	
Methylene Chloride	ND ug/L		100	25		08/31/11 14:56	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND ug/L		100	25		08/31/11 14:56	108-10-1	
Methyl-tert-butyl ether	ND ug/L		25.0	25		08/31/11 14:56	1634-04-4	

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ANALYTICAL RESULTS

Project: CRC City of Rochester

Pace Project No.: 10167933

Sample: DPE-3		Lab ID: 10167933005	Collected: 08/28/11 14:20	Received: 08/29/11 13:56	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 VOC		Analytical Method: EPA 8260						
Naphthalene	ND	ug/L	100	25		08/31/11 14:56	91-20-3	
n-Propylbenzene	ND	ug/L	25.0	25		08/31/11 14:56	103-65-1	
Styrene	ND	ug/L	25.0	25		08/31/11 14:56	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	25.0	25		08/31/11 14:56	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	25.0	25		08/31/11 14:56	79-34-5	
Tetrachloroethene	4260	ug/L	25.0	25		08/31/11 14:56	127-18-4	
Tetrahydrofuran	ND	ug/L	250	25		08/31/11 14:56	109-99-9	
Toluene	ND	ug/L	25.0	25		08/31/11 14:56	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	25.0	25		08/31/11 14:56	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	25.0	25		08/31/11 14:56	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	25.0	25		08/31/11 14:56	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	25.0	25		08/31/11 14:56	79-00-5	
Trichloroethene	ND	ug/L	25.0	25		08/31/11 14:56	79-01-6	
Trichlorofluoromethane	ND	ug/L	25.0	25		08/31/11 14:56	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	100	25		08/31/11 14:56	96-18-4	
1,1,2-Trichlorotrifluoroethane	348	ug/L	25.0	25		08/31/11 14:56	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/L	25.0	25		08/31/11 14:56	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	25.0	25		08/31/11 14:56	108-67-8	
Vinyl chloride	ND	ug/L	10.0	25		08/31/11 14:56	75-01-4	
Xylene (Total)	ND	ug/L	75.0	25		08/31/11 14:56	1330-20-7	
m&p-Xylene	ND	ug/L	50.0	25		08/31/11 14:56	179601-23-1	
o-Xylene	ND	ug/L	25.0	25		08/31/11 14:56	95-47-6	
Dibromofluoromethane (S)	107	%	75-125	25		08/31/11 14:56	1868-53-7	
1,2-Dichloroethane-d4 (S)	107	%	75-125	25		08/31/11 14:56	17060-07-0	
Toluene-d8 (S)	96	%	75-125	25		08/31/11 14:56	2037-26-5	
4-Bromofluorobenzene (S)	99	%	75-125	25		08/31/11 14:56	460-00-4	

ANALYTICAL RESULTS

Project: CRC City of Rochester

Pace Project No.: 10167933

Sample: DPE-4		Lab ID: 10167933006	Collected: 08/28/11 14:55	Received: 08/29/11 13:56	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		08/31/11 13:01	67-64-1	CL
Allyl chloride	ND ug/L		20.0	5		08/31/11 13:01	107-05-1	
Benzene	ND ug/L		5.0	5		08/31/11 13:01	71-43-2	
Bromobenzene	ND ug/L		5.0	5		08/31/11 13:01	108-86-1	
Bromochloromethane	ND ug/L		5.0	5		08/31/11 13:01	74-97-5	
Bromodichloromethane	ND ug/L		5.0	5		08/31/11 13:01	75-27-4	
Bromoform	ND ug/L		20.0	5		08/31/11 13:01	75-25-2	
Bromomethane	ND ug/L		20.0	5		08/31/11 13:01	74-83-9	
2-Butanone (MEK)	ND ug/L		20.0	5		08/31/11 13:01	78-93-3	
n-Butylbenzene	ND ug/L		5.0	5		08/31/11 13:01	104-51-8	
sec-Butylbenzene	ND ug/L		5.0	5		08/31/11 13:01	135-98-8	
tert-Butylbenzene	ND ug/L		5.0	5		08/31/11 13:01	98-06-6	
Carbon tetrachloride	ND ug/L		5.0	5		08/31/11 13:01	56-23-5	
Chlorobenzene	ND ug/L		5.0	5		08/31/11 13:01	108-90-7	
Chloroethane	ND ug/L		5.0	5		08/31/11 13:01	75-00-3	
Chloroform	ND ug/L		5.0	5		08/31/11 13:01	67-66-3	
Chloromethane	ND ug/L		20.0	5		08/31/11 13:01	74-87-3	
2-Chlorotoluene	ND ug/L		5.0	5		08/31/11 13:01	95-49-8	
4-Chlorotoluene	ND ug/L		5.0	5		08/31/11 13:01	106-43-4	
1,2-Dibromo-3-chloropropane	ND ug/L		20.0	5		08/31/11 13:01	96-12-8	
Dibromochloromethane	ND ug/L		5.0	5		08/31/11 13:01	124-48-1	
1,2-Dibromoethane (EDB)	ND ug/L		5.0	5		08/31/11 13:01	106-93-4	
Dibromomethane	ND ug/L		20.0	5		08/31/11 13:01	74-95-3	
1,2-Dichlorobenzene	ND ug/L		5.0	5		08/31/11 13:01	95-50-1	
1,3-Dichlorobenzene	ND ug/L		5.0	5		08/31/11 13:01	541-73-1	
1,4-Dichlorobenzene	ND ug/L		5.0	5		08/31/11 13:01	106-46-7	
Dichlorodifluoromethane	ND ug/L		5.0	5		08/31/11 13:01	75-71-8	
1,1-Dichloroethane	ND ug/L		5.0	5		08/31/11 13:01	75-34-3	
1,2-Dichloroethane	ND ug/L		5.0	5		08/31/11 13:01	107-06-2	
1,1-Dichloroethene	ND ug/L		5.0	5		08/31/11 13:01	75-35-4	
cis-1,2-Dichloroethene	ND ug/L		5.0	5		08/31/11 13:01	156-59-2	
trans-1,2-Dichloroethene	ND ug/L		20.0	5		08/31/11 13:01	156-60-5	
Dichlorofluoromethane	ND ug/L		5.0	5		08/31/11 13:01	75-43-4	
1,2-Dichloropropane	ND ug/L		20.0	5		08/31/11 13:01	78-87-5	
1,3-Dichloropropane	ND ug/L		5.0	5		08/31/11 13:01	142-28-9	
2,2-Dichloropropane	ND ug/L		20.0	5		08/31/11 13:01	594-20-7	
1,1-Dichloropropene	ND ug/L		5.0	5		08/31/11 13:01	563-58-6	
cis-1,3-Dichloropropene	ND ug/L		20.0	5		08/31/11 13:01	10061-01-5	
trans-1,3-Dichloropropene	ND ug/L		20.0	5		08/31/11 13:01	10061-02-6	
Diethyl ether (Ethyl ether)	ND ug/L		20.0	5		08/31/11 13:01	60-29-7	
Ethylbenzene	ND ug/L		5.0	5		08/31/11 13:01	100-41-4	
Hexachloro-1,3-butadiene	ND ug/L		25.0	5		08/31/11 13:01	87-68-3	
Isopropylbenzene (Cumene)	ND ug/L		5.0	5		08/31/11 13:01	98-82-8	
p-Isopropyltoluene	ND ug/L		5.0	5		08/31/11 13:01	99-87-6	
Methylene Chloride	ND ug/L		20.0	5		08/31/11 13:01	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND ug/L		20.0	5		08/31/11 13:01	108-10-1	
Methyl-tert-butyl ether	ND ug/L		5.0	5		08/31/11 13:01	1634-04-4	

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ANALYTICAL RESULTS

Project: CRC City of Rochester

Pace Project No.: 10167933

Sample: DPE-4		Lab ID: 10167933006	Collected: 08/28/11 14:55	Received: 08/29/11 13:56	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		08/31/11 13:01	91-20-3	
n-Propylbenzene	ND	ug/L	5.0	5		08/31/11 13:01	103-65-1	
Styrene	ND	ug/L	5.0	5		08/31/11 13:01	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	5		08/31/11 13:01	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	5		08/31/11 13:01	79-34-5	
Tetrachloroethene	771	ug/L	5.0	5		08/31/11 13:01	127-18-4	
Tetrahydrofuran	ND	ug/L	50.0	5		08/31/11 13:01	109-99-9	
Toluene	ND	ug/L	5.0	5		08/31/11 13:01	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	5.0	5		08/31/11 13:01	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	5		08/31/11 13:01	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	5.0	5		08/31/11 13:01	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	5		08/31/11 13:01	79-00-5	
Trichloroethene	ND	ug/L	5.0	5		08/31/11 13:01	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	5		08/31/11 13:01	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	20.0	5		08/31/11 13:01	96-18-4	
1,1,2-Trichlorotrifluoroethane	93.8	ug/L	5.0	5		08/31/11 13:01	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/L	5.0	5		08/31/11 13:01	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	5.0	5		08/31/11 13:01	108-67-8	
Vinyl chloride	ND	ug/L	2.0	5		08/31/11 13:01	75-01-4	
Xylene (Total)	ND	ug/L	15.0	5		08/31/11 13:01	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	5		08/31/11 13:01	179601-23-1	
o-Xylene	ND	ug/L	5.0	5		08/31/11 13:01	95-47-6	
Dibromofluoromethane (S)	106	%	75-125	5		08/31/11 13:01	1868-53-7	
1,2-Dichloroethane-d4 (S)	106	%	75-125	5		08/31/11 13:01	17060-07-0	
Toluene-d8 (S)	96	%	75-125	5		08/31/11 13:01	2037-26-5	
4-Bromofluorobenzene (S)	99	%	75-125	5		08/31/11 13:01	460-00-4	

ANALYTICAL RESULTS

Project: CRC City of Rochester

Pace Project No.: 10167933

Sample: DPE-5	Lab ID: 10167933007	Collected: 08/28/11 15:20	Received: 08/29/11 13:56	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		08/30/11 23:56	67-64-1	CL
Allyl chloride	ND ug/L		4.0	1		08/30/11 23:56	107-05-1	
Benzene	ND ug/L		1.0	1		08/30/11 23:56	71-43-2	
Bromobenzene	ND ug/L		1.0	1		08/30/11 23:56	108-86-1	
Bromochloromethane	ND ug/L		1.0	1		08/30/11 23:56	74-97-5	
Bromodichloromethane	ND ug/L		1.0	1		08/30/11 23:56	75-27-4	
Bromoform	ND ug/L		4.0	1		08/30/11 23:56	75-25-2	
Bromomethane	ND ug/L		4.0	1		08/30/11 23:56	74-83-9	
2-Butanone (MEK)	ND ug/L		4.0	1		08/30/11 23:56	78-93-3	
n-Butylbenzene	ND ug/L		1.0	1		08/30/11 23:56	104-51-8	
sec-Butylbenzene	ND ug/L		1.0	1		08/30/11 23:56	135-98-8	
tert-Butylbenzene	ND ug/L		1.0	1		08/30/11 23:56	98-06-6	
Carbon tetrachloride	ND ug/L		1.0	1		08/30/11 23:56	56-23-5	
Chlorobenzene	ND ug/L		1.0	1		08/30/11 23:56	108-90-7	
Chloroethane	ND ug/L		1.0	1		08/30/11 23:56	75-00-3	
Chloroform	ND ug/L		1.0	1		08/30/11 23:56	67-66-3	
Chloromethane	ND ug/L		4.0	1		08/30/11 23:56	74-87-3	
2-Chlorotoluene	ND ug/L		1.0	1		08/30/11 23:56	95-49-8	
4-Chlorotoluene	ND ug/L		1.0	1		08/30/11 23:56	106-43-4	
1,2-Dibromo-3-chloropropane	ND ug/L		4.0	1		08/30/11 23:56	96-12-8	
Dibromochloromethane	ND ug/L		1.0	1		08/30/11 23:56	124-48-1	
1,2-Dibromoethane (EDB)	ND ug/L		1.0	1		08/30/11 23:56	106-93-4	
Dibromomethane	ND ug/L		4.0	1		08/30/11 23:56	74-95-3	
1,2-Dichlorobenzene	ND ug/L		1.0	1		08/30/11 23:56	95-50-1	
1,3-Dichlorobenzene	ND ug/L		1.0	1		08/30/11 23:56	541-73-1	
1,4-Dichlorobenzene	ND ug/L		1.0	1		08/30/11 23:56	106-46-7	
Dichlorodifluoromethane	ND ug/L		1.0	1		08/30/11 23:56	75-71-8	
1,1-Dichloroethane	ND ug/L		1.0	1		08/30/11 23:56	75-34-3	
1,2-Dichloroethane	ND ug/L		1.0	1		08/30/11 23:56	107-06-2	
1,1-Dichloroethene	ND ug/L		1.0	1		08/30/11 23:56	75-35-4	
cis-1,2-Dichloroethene	ND ug/L		1.0	1		08/30/11 23:56	156-59-2	
trans-1,2-Dichloroethene	ND ug/L		4.0	1		08/30/11 23:56	156-60-5	
Dichlorofluoromethane	ND ug/L		1.0	1		08/30/11 23:56	75-43-4	
1,2-Dichloropropane	ND ug/L		4.0	1		08/30/11 23:56	78-87-5	
1,3-Dichloropropane	ND ug/L		1.0	1		08/30/11 23:56	142-28-9	
2,2-Dichloropropane	ND ug/L		4.0	1		08/30/11 23:56	594-20-7	
1,1-Dichloropropene	ND ug/L		1.0	1		08/30/11 23:56	563-58-6	
cis-1,3-Dichloropropene	ND ug/L		4.0	1		08/30/11 23:56	10061-01-5	
trans-1,3-Dichloropropene	ND ug/L		4.0	1		08/30/11 23:56	10061-02-6	
Diethyl ether (Ethyl ether)	ND ug/L		4.0	1		08/30/11 23:56	60-29-7	
Ethylbenzene	ND ug/L		1.0	1		08/30/11 23:56	100-41-4	
Hexachloro-1,3-butadiene	ND ug/L		5.0	1		08/30/11 23:56	87-68-3	
Isopropylbenzene (Cumene)	ND ug/L		1.0	1		08/30/11 23:56	98-82-8	
p-Isopropyltoluene	ND ug/L		1.0	1		08/30/11 23:56	99-87-6	
Methylene Chloride	ND ug/L		4.0	1		08/30/11 23:56	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND ug/L		4.0	1		08/30/11 23:56	108-10-1	
Methyl-tert-butyl ether	ND ug/L		1.0	1		08/30/11 23:56	1634-04-4	

Date: 09/06/2011 04:00 PM

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: CRC City of Rochester

Pace Project No.: 10167933

Sample: DPE-5		Lab ID: 10167933007	Collected: 08/28/11 15:20	Received: 08/29/11 13:56	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		08/30/11 23:56	91-20-3	
n-Propylbenzene	ND ug/L		1.0	1		08/30/11 23:56	103-65-1	
Styrene	ND ug/L		1.0	1		08/30/11 23:56	100-42-5	
1,1,1,2-Tetrachloroethane	ND ug/L		1.0	1		08/30/11 23:56	630-20-6	
1,1,2,2-Tetrachloroethane	ND ug/L		1.0	1		08/30/11 23:56	79-34-5	
Tetrachloroethene	ND ug/L		1.0	1		08/30/11 23:56	127-18-4	
Tetrahydrofuran	ND ug/L		10.0	1		08/30/11 23:56	109-99-9	
Toluene	ND ug/L		1.0	1		08/30/11 23:56	108-88-3	
1,2,3-Trichlorobenzene	ND ug/L		1.0	1		08/30/11 23:56	87-61-6	
1,2,4-Trichlorobenzene	ND ug/L		1.0	1		08/30/11 23:56	120-82-1	
1,1,1-Trichloroethane	ND ug/L		1.0	1		08/30/11 23:56	71-55-6	
1,1,2-Trichloroethane	ND ug/L		1.0	1		08/30/11 23:56	79-00-5	
Trichloroethene	ND ug/L		1.0	1		08/30/11 23:56	79-01-6	
Trichlorofluoromethane	ND ug/L		1.0	1		08/30/11 23:56	75-69-4	
1,2,3-Trichloropropane	ND ug/L		4.0	1		08/30/11 23:56	96-18-4	
1,1,2-Trichlorotrifluoroethane	ND ug/L		1.0	1		08/30/11 23:56	76-13-1	
1,2,4-Trimethylbenzene	ND ug/L		1.0	1		08/30/11 23:56	95-63-6	
1,3,5-Trimethylbenzene	ND ug/L		1.0	1		08/30/11 23:56	108-67-8	
Vinyl chloride	ND ug/L		0.40	1		08/30/11 23:56	75-01-4	
Xylene (Total)	ND ug/L		3.0	1		08/30/11 23:56	1330-20-7	
m&p-Xylene	ND ug/L		2.0	1		08/30/11 23:56	179601-23-1	
o-Xylene	ND ug/L		1.0	1		08/30/11 23:56	95-47-6	
Dibromofluoromethane (S)	105 %		75-125	1		08/30/11 23:56	1868-53-7	
1,2-Dichloroethane-d4 (S)	107 %		75-125	1		08/30/11 23:56	17060-07-0	
Toluene-d8 (S)	96 %		75-125	1		08/30/11 23:56	2037-26-5	
4-Bromofluorobenzene (S)	99 %		75-125	1		08/30/11 23:56	460-00-4	

ANALYTICAL RESULTS

Project: CRC City of Rochester

Pace Project No.: 10167933

Sample: DPE-6	Lab ID: 10167933008	Collected: 08/28/11 15:55	Received: 08/29/11 13:56	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		08/30/11 22:35	67-64-1	CL
Allyl chloride	ND ug/L		4.0	1		08/30/11 22:35	107-05-1	
Benzene	ND ug/L		1.0	1		08/30/11 22:35	71-43-2	
Bromobenzene	ND ug/L		1.0	1		08/30/11 22:35	108-86-1	
Bromochloromethane	ND ug/L		1.0	1		08/30/11 22:35	74-97-5	
Bromodichloromethane	ND ug/L		1.0	1		08/30/11 22:35	75-27-4	
Bromoform	ND ug/L		4.0	1		08/30/11 22:35	75-25-2	
Bromomethane	ND ug/L		4.0	1		08/30/11 22:35	74-83-9	
2-Butanone (MEK)	ND ug/L		4.0	1		08/30/11 22:35	78-93-3	
n-Butylbenzene	ND ug/L		1.0	1		08/30/11 22:35	104-51-8	
sec-Butylbenzene	ND ug/L		1.0	1		08/30/11 22:35	135-98-8	
tert-Butylbenzene	ND ug/L		1.0	1		08/30/11 22:35	98-06-6	
Carbon tetrachloride	ND ug/L		1.0	1		08/30/11 22:35	56-23-5	
Chlorobenzene	ND ug/L		1.0	1		08/30/11 22:35	108-90-7	
Chloroethane	ND ug/L		1.0	1		08/30/11 22:35	75-00-3	
Chloroform	ND ug/L		1.0	1		08/30/11 22:35	67-66-3	
Chloromethane	ND ug/L		4.0	1		08/30/11 22:35	74-87-3	
2-Chlorotoluene	ND ug/L		1.0	1		08/30/11 22:35	95-49-8	
4-Chlorotoluene	ND ug/L		1.0	1		08/30/11 22:35	106-43-4	
1,2-Dibromo-3-chloropropane	ND ug/L		4.0	1		08/30/11 22:35	96-12-8	
Dibromochloromethane	ND ug/L		1.0	1		08/30/11 22:35	124-48-1	
1,2-Dibromoethane (EDB)	ND ug/L		1.0	1		08/30/11 22:35	106-93-4	
Dibromomethane	ND ug/L		4.0	1		08/30/11 22:35	74-95-3	
1,2-Dichlorobenzene	ND ug/L		1.0	1		08/30/11 22:35	95-50-1	
1,3-Dichlorobenzene	ND ug/L		1.0	1		08/30/11 22:35	541-73-1	
1,4-Dichlorobenzene	ND ug/L		1.0	1		08/30/11 22:35	106-46-7	
Dichlorodifluoromethane	ND ug/L		1.0	1		08/30/11 22:35	75-71-8	
1,1-Dichloroethane	ND ug/L		1.0	1		08/30/11 22:35	75-34-3	
1,2-Dichloroethane	ND ug/L		1.0	1		08/30/11 22:35	107-06-2	
1,1-Dichloroethene	ND ug/L		1.0	1		08/30/11 22:35	75-35-4	
cis-1,2-Dichloroethene	ND ug/L		1.0	1		08/30/11 22:35	156-59-2	
trans-1,2-Dichloroethene	ND ug/L		4.0	1		08/30/11 22:35	156-60-5	
Dichlorofluoromethane	ND ug/L		1.0	1		08/30/11 22:35	75-43-4	
1,2-Dichloropropane	ND ug/L		4.0	1		08/30/11 22:35	78-87-5	
1,3-Dichloropropane	ND ug/L		1.0	1		08/30/11 22:35	142-28-9	
2,2-Dichloropropane	ND ug/L		4.0	1		08/30/11 22:35	594-20-7	
1,1-Dichloropropene	ND ug/L		1.0	1		08/30/11 22:35	563-58-6	
cis-1,3-Dichloropropene	ND ug/L		4.0	1		08/30/11 22:35	10061-01-5	
trans-1,3-Dichloropropene	ND ug/L		4.0	1		08/30/11 22:35	10061-02-6	
Diethyl ether (Ethyl ether)	ND ug/L		4.0	1		08/30/11 22:35	60-29-7	
Ethylbenzene	ND ug/L		1.0	1		08/30/11 22:35	100-41-4	
Hexachloro-1,3-butadiene	ND ug/L		5.0	1		08/30/11 22:35	87-68-3	
Isopropylbenzene (Cumene)	ND ug/L		1.0	1		08/30/11 22:35	98-82-8	
p-Isopropyltoluene	ND ug/L		1.0	1		08/30/11 22:35	99-87-6	
Methylene Chloride	ND ug/L		4.0	1		08/30/11 22:35	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND ug/L		4.0	1		08/30/11 22:35	108-10-1	
Methyl-tert-butyl ether	ND ug/L		1.0	1		08/30/11 22:35	1634-04-4	

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ANALYTICAL RESULTS

Project: CRC City of Rochester

Pace Project No.: 10167933

Sample: DPE-6		Lab ID: 10167933008	Collected: 08/28/11 15:55	Received: 08/29/11 13:56	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		08/30/11 22:35	91-20-3	
n-Propylbenzene	ND	ug/L	1.0	1		08/30/11 22:35	103-65-1	
Styrene	ND	ug/L	1.0	1		08/30/11 22:35	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		08/30/11 22:35	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		08/30/11 22:35	79-34-5	
Tetrachloroethene	7.7	ug/L	1.0	1		08/30/11 22:35	127-18-4	
Tetrahydrofuran	ND	ug/L	10.0	1		08/30/11 22:35	109-99-9	
Toluene	ND	ug/L	1.0	1		08/30/11 22:35	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		08/30/11 22:35	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		08/30/11 22:35	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		08/30/11 22:35	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		08/30/11 22:35	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		08/30/11 22:35	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		08/30/11 22:35	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	4.0	1		08/30/11 22:35	96-18-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/L	1.0	1		08/30/11 22:35	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1		08/30/11 22:35	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1		08/30/11 22:35	108-67-8	
Vinyl chloride	ND	ug/L	0.40	1		08/30/11 22:35	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		08/30/11 22:35	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		08/30/11 22:35	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		08/30/11 22:35	95-47-6	
Dibromofluoromethane (S)	106	%	75-125	1		08/30/11 22:35	1868-53-7	
1,2-Dichloroethane-d4 (S)	104	%	75-125	1		08/30/11 22:35	17060-07-0	
Toluene-d8 (S)	97	%	75-125	1		08/30/11 22:35	2037-26-5	
4-Bromofluorobenzene (S)	98	%	75-125	1		08/30/11 22:35	460-00-4	

ANALYTICAL RESULTS

Project: CRC City of Rochester

Pace Project No.: 10167933

Sample: DPE-7		Lab ID: 10167933009	Collected: 08/28/11 16:20	Received: 08/29/11 13:56	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		08/30/11 22:51	67-64-1	CL
Allyl chloride	ND	ug/L	4.0	1		08/30/11 22:51	107-05-1	
Benzene	ND	ug/L	1.0	1		08/30/11 22:51	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		08/30/11 22:51	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		08/30/11 22:51	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		08/30/11 22:51	75-27-4	
Bromoform	ND	ug/L	4.0	1		08/30/11 22:51	75-25-2	
Bromomethane	ND	ug/L	4.0	1		08/30/11 22:51	74-83-9	
2-Butanone (MEK)	ND	ug/L	4.0	1		08/30/11 22:51	78-93-3	
n-Butylbenzene	ND	ug/L	1.0	1		08/30/11 22:51	104-51-8	
sec-Butylbenzene	ND	ug/L	1.0	1		08/30/11 22:51	135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	1		08/30/11 22:51	98-06-6	
Carbon tetrachloride	ND	ug/L	1.0	1		08/30/11 22:51	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		08/30/11 22:51	108-90-7	
Chloroethane	ND	ug/L	1.0	1		08/30/11 22:51	75-00-3	
Chloroform	1.2	ug/L	1.0	1		08/30/11 22:51	67-66-3	
Chloromethane	ND	ug/L	4.0	1		08/30/11 22:51	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		08/30/11 22:51	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		08/30/11 22:51	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	4.0	1		08/30/11 22:51	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		08/30/11 22:51	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		08/30/11 22:51	106-93-4	
Dibromomethane	ND	ug/L	4.0	1		08/30/11 22:51	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		08/30/11 22:51	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		08/30/11 22:51	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		08/30/11 22:51	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		08/30/11 22:51	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		08/30/11 22:51	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		08/30/11 22:51	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		08/30/11 22:51	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		08/30/11 22:51	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	4.0	1		08/30/11 22:51	156-60-5	
Dichlorofluoromethane	ND	ug/L	1.0	1		08/30/11 22:51	75-43-4	
1,2-Dichloropropane	ND	ug/L	4.0	1		08/30/11 22:51	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		08/30/11 22:51	142-28-9	
2,2-Dichloropropane	ND	ug/L	4.0	1		08/30/11 22:51	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		08/30/11 22:51	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	4.0	1		08/30/11 22:51	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	4.0	1		08/30/11 22:51	10061-02-6	
Diethyl ether (Ethyl ether)	ND	ug/L	4.0	1		08/30/11 22:51	60-29-7	
Ethylbenzene	ND	ug/L	1.0	1		08/30/11 22:51	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	5.0	1		08/30/11 22:51	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		08/30/11 22:51	98-82-8	
p-Isopropyltoluene	ND	ug/L	1.0	1		08/30/11 22:51	99-87-6	
Methylene Chloride	ND	ug/L	4.0	1		08/30/11 22:51	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	4.0	1		08/30/11 22:51	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		08/30/11 22:51	1634-04-4	

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ANALYTICAL RESULTS

Project: CRC City of Rochester

Pace Project No.: 10167933

Sample: DPE-7		Lab ID: 10167933009	Collected: 08/28/11 16:20	Received: 08/29/11 13:56	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		08/30/11 22:51	91-20-3	
n-Propylbenzene	ND	ug/L	1.0	1		08/30/11 22:51	103-65-1	
Styrene	ND	ug/L	1.0	1		08/30/11 22:51	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		08/30/11 22:51	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		08/30/11 22:51	79-34-5	
Tetrachloroethene	26.9	ug/L	1.0	1		08/30/11 22:51	127-18-4	
Tetrahydrofuran	ND	ug/L	10.0	1		08/30/11 22:51	109-99-9	
Toluene	ND	ug/L	1.0	1		08/30/11 22:51	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		08/30/11 22:51	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		08/30/11 22:51	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		08/30/11 22:51	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		08/30/11 22:51	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		08/30/11 22:51	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		08/30/11 22:51	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	4.0	1		08/30/11 22:51	96-18-4	
1,1,2-Trichlorotrifluoroethane	3.8	ug/L	1.0	1		08/30/11 22:51	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1		08/30/11 22:51	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1		08/30/11 22:51	108-67-8	
Vinyl chloride	ND	ug/L	0.40	1		08/30/11 22:51	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		08/30/11 22:51	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		08/30/11 22:51	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		08/30/11 22:51	95-47-6	
Dibromofluoromethane (S)	105	%	75-125	1		08/30/11 22:51	1868-53-7	
1,2-Dichloroethane-d4 (S)	106	%	75-125	1		08/30/11 22:51	17060-07-0	
Toluene-d8 (S)	97	%	75-125	1		08/30/11 22:51	2037-26-5	
4-Bromofluorobenzene (S)	100	%	75-125	1		08/30/11 22:51	460-00-4	

ANALYTICAL RESULTS

Project: CRC City of Rochester

Pace Project No.: 10167933

Sample: DPE-8	Lab ID: 10167933010	Collected: 08/28/11 17:00	Received: 08/29/11 13:56	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 VOC		Analytical Method: EPA 8260						
Acetone	ND ug/L		50.0	2		08/31/11 00:29	67-64-1	CL
Allyl chloride	ND ug/L		8.0	2		08/31/11 00:29	107-05-1	
Benzene	ND ug/L		2.0	2		08/31/11 00:29	71-43-2	
Bromobenzene	ND ug/L		2.0	2		08/31/11 00:29	108-86-1	
Bromochloromethane	ND ug/L		2.0	2		08/31/11 00:29	74-97-5	
Bromodichloromethane	ND ug/L		2.0	2		08/31/11 00:29	75-27-4	
Bromoform	ND ug/L		8.0	2		08/31/11 00:29	75-25-2	
Bromomethane	ND ug/L		8.0	2		08/31/11 00:29	74-83-9	
2-Butanone (MEK)	ND ug/L		8.0	2		08/31/11 00:29	78-93-3	
n-Butylbenzene	ND ug/L		2.0	2		08/31/11 00:29	104-51-8	
sec-Butylbenzene	ND ug/L		2.0	2		08/31/11 00:29	135-98-8	
tert-Butylbenzene	ND ug/L		2.0	2		08/31/11 00:29	98-06-6	
Carbon tetrachloride	ND ug/L		2.0	2		08/31/11 00:29	56-23-5	
Chlorobenzene	ND ug/L		2.0	2		08/31/11 00:29	108-90-7	
Chloroethane	ND ug/L		2.0	2		08/31/11 00:29	75-00-3	
Chloroform	ND ug/L		2.0	2		08/31/11 00:29	67-66-3	
Chloromethane	ND ug/L		8.0	2		08/31/11 00:29	74-87-3	
2-Chlorotoluene	ND ug/L		2.0	2		08/31/11 00:29	95-49-8	
4-Chlorotoluene	ND ug/L		2.0	2		08/31/11 00:29	106-43-4	
1,2-Dibromo-3-chloropropane	ND ug/L		8.0	2		08/31/11 00:29	96-12-8	
Dibromochloromethane	ND ug/L		2.0	2		08/31/11 00:29	124-48-1	
1,2-Dibromoethane (EDB)	ND ug/L		2.0	2		08/31/11 00:29	106-93-4	
Dibromomethane	ND ug/L		8.0	2		08/31/11 00:29	74-95-3	
1,2-Dichlorobenzene	ND ug/L		2.0	2		08/31/11 00:29	95-50-1	
1,3-Dichlorobenzene	ND ug/L		2.0	2		08/31/11 00:29	541-73-1	
1,4-Dichlorobenzene	ND ug/L		2.0	2		08/31/11 00:29	106-46-7	
Dichlorodifluoromethane	ND ug/L		2.0	2		08/31/11 00:29	75-71-8	
1,1-Dichloroethane	ND ug/L		2.0	2		08/31/11 00:29	75-34-3	
1,2-Dichloroethane	ND ug/L		2.0	2		08/31/11 00:29	107-06-2	
1,1-Dichloroethene	ND ug/L		2.0	2		08/31/11 00:29	75-35-4	
cis-1,2-Dichloroethene	ND ug/L		2.0	2		08/31/11 00:29	156-59-2	
trans-1,2-Dichloroethene	ND ug/L		8.0	2		08/31/11 00:29	156-60-5	
Dichlorofluoromethane	ND ug/L		2.0	2		08/31/11 00:29	75-43-4	
1,2-Dichloropropane	ND ug/L		8.0	2		08/31/11 00:29	78-87-5	
1,3-Dichloropropane	ND ug/L		2.0	2		08/31/11 00:29	142-28-9	
2,2-Dichloropropane	ND ug/L		8.0	2		08/31/11 00:29	594-20-7	
1,1-Dichloropropene	ND ug/L		2.0	2		08/31/11 00:29	563-58-6	
cis-1,3-Dichloropropene	ND ug/L		8.0	2		08/31/11 00:29	10061-01-5	
trans-1,3-Dichloropropene	ND ug/L		8.0	2		08/31/11 00:29	10061-02-6	
Diethyl ether (Ethyl ether)	ND ug/L		8.0	2		08/31/11 00:29	60-29-7	
Ethylbenzene	ND ug/L		2.0	2		08/31/11 00:29	100-41-4	
Hexachloro-1,3-butadiene	ND ug/L		10.0	2		08/31/11 00:29	87-68-3	
Isopropylbenzene (Cumene)	ND ug/L		2.0	2		08/31/11 00:29	98-82-8	
p-Isopropyltoluene	ND ug/L		2.0	2		08/31/11 00:29	99-87-6	
Methylene Chloride	ND ug/L		8.0	2		08/31/11 00:29	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND ug/L		8.0	2		08/31/11 00:29	108-10-1	
Methyl-tert-butyl ether	ND ug/L		2.0	2		08/31/11 00:29	1634-04-4	

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ANALYTICAL RESULTS

Project: CRC City of Rochester

Pace Project No.: 10167933

Sample: DPE-8		Lab ID: 10167933010	Collected: 08/28/11 17:00	Received: 08/29/11 13:56	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 VOC		Analytical Method: EPA 8260						
Naphthalene	ND	ug/L	8.0	2		08/31/11 00:29	91-20-3	
n-Propylbenzene	ND	ug/L	2.0	2		08/31/11 00:29	103-65-1	
Styrene	ND	ug/L	2.0	2		08/31/11 00:29	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	2.0	2		08/31/11 00:29	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	2.0	2		08/31/11 00:29	79-34-5	
Tetrachloroethene	700	ug/L	5.0	5		08/31/11 14:07	127-18-4	
Tetrahydrofuran	ND	ug/L	20.0	2		08/31/11 00:29	109-99-9	
Toluene	ND	ug/L	2.0	2		08/31/11 00:29	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	2		08/31/11 00:29	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	2		08/31/11 00:29	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	2.0	2		08/31/11 00:29	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	2.0	2		08/31/11 00:29	79-00-5	
Trichloroethene	ND	ug/L	2.0	2		08/31/11 00:29	79-01-6	
Trichlorofluoromethane	ND	ug/L	2.0	2		08/31/11 00:29	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	8.0	2		08/31/11 00:29	96-18-4	
1,1,2-Trichlorotrifluoroethane	32.4	ug/L	2.0	2		08/31/11 00:29	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/L	2.0	2		08/31/11 00:29	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	2.0	2		08/31/11 00:29	108-67-8	
Vinyl chloride	ND	ug/L	0.80	2		08/31/11 00:29	75-01-4	
Xylene (Total)	ND	ug/L	6.0	2		08/31/11 00:29	1330-20-7	
m&p-Xylene	ND	ug/L	4.0	2		08/31/11 00:29	179601-23-1	
o-Xylene	ND	ug/L	2.0	2		08/31/11 00:29	95-47-6	
Dibromofluoromethane (S)	106	%	75-125	2		08/31/11 00:29	1868-53-7	
1,2-Dichloroethane-d4 (S)	105	%	75-125	2		08/31/11 00:29	17060-07-0	
Toluene-d8 (S)	96	%	75-125	2		08/31/11 00:29	2037-26-5	
4-Bromofluorobenzene (S)	100	%	75-125	2		08/31/11 00:29	460-00-4	

ANALYTICAL RESULTS

Project: CRC City of Rochester

Pace Project No.: 10167933

Sample: MW-15	Lab ID: 10167933011	Collected: 08/28/11 07:30	Received: 08/29/11 13:56	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		08/30/11 23:07	67-64-1	CL
Allyl chloride	ND ug/L		4.0	1		08/30/11 23:07	107-05-1	
Benzene	ND ug/L		1.0	1		08/30/11 23:07	71-43-2	
Bromobenzene	ND ug/L		1.0	1		08/30/11 23:07	108-86-1	
Bromochloromethane	ND ug/L		1.0	1		08/30/11 23:07	74-97-5	
Bromodichloromethane	ND ug/L		1.0	1		08/30/11 23:07	75-27-4	
Bromoform	ND ug/L		4.0	1		08/30/11 23:07	75-25-2	
Bromomethane	ND ug/L		4.0	1		08/30/11 23:07	74-83-9	
2-Butanone (MEK)	ND ug/L		4.0	1		08/30/11 23:07	78-93-3	
n-Butylbenzene	ND ug/L		1.0	1		08/30/11 23:07	104-51-8	
sec-Butylbenzene	ND ug/L		1.0	1		08/30/11 23:07	135-98-8	
tert-Butylbenzene	ND ug/L		1.0	1		08/30/11 23:07	98-06-6	
Carbon tetrachloride	ND ug/L		1.0	1		08/30/11 23:07	56-23-5	
Chlorobenzene	ND ug/L		1.0	1		08/30/11 23:07	108-90-7	
Chloroethane	ND ug/L		1.0	1		08/30/11 23:07	75-00-3	
Chloroform	1.0 ug/L		1.0	1		08/30/11 23:07	67-66-3	
Chloromethane	ND ug/L		4.0	1		08/30/11 23:07	74-87-3	
2-Chlorotoluene	ND ug/L		1.0	1		08/30/11 23:07	95-49-8	
4-Chlorotoluene	ND ug/L		1.0	1		08/30/11 23:07	106-43-4	
1,2-Dibromo-3-chloropropane	ND ug/L		4.0	1		08/30/11 23:07	96-12-8	
Dibromochloromethane	ND ug/L		1.0	1		08/30/11 23:07	124-48-1	
1,2-Dibromoethane (EDB)	ND ug/L		1.0	1		08/30/11 23:07	106-93-4	
Dibromomethane	ND ug/L		4.0	1		08/30/11 23:07	74-95-3	
1,2-Dichlorobenzene	ND ug/L		1.0	1		08/30/11 23:07	95-50-1	
1,3-Dichlorobenzene	ND ug/L		1.0	1		08/30/11 23:07	541-73-1	
1,4-Dichlorobenzene	ND ug/L		1.0	1		08/30/11 23:07	106-46-7	
Dichlorodifluoromethane	ND ug/L		1.0	1		08/30/11 23:07	75-71-8	
1,1-Dichloroethane	ND ug/L		1.0	1		08/30/11 23:07	75-34-3	
1,2-Dichloroethane	ND ug/L		1.0	1		08/30/11 23:07	107-06-2	
1,1-Dichloroethene	ND ug/L		1.0	1		08/30/11 23:07	75-35-4	
cis-1,2-Dichloroethene	ND ug/L		1.0	1		08/30/11 23:07	156-59-2	
trans-1,2-Dichloroethene	ND ug/L		4.0	1		08/30/11 23:07	156-60-5	
Dichlorofluoromethane	ND ug/L		1.0	1		08/30/11 23:07	75-43-4	
1,2-Dichloropropane	ND ug/L		4.0	1		08/30/11 23:07	78-87-5	
1,3-Dichloropropane	ND ug/L		1.0	1		08/30/11 23:07	142-28-9	
2,2-Dichloropropane	ND ug/L		4.0	1		08/30/11 23:07	594-20-7	
1,1-Dichloropropene	ND ug/L		1.0	1		08/30/11 23:07	563-58-6	
cis-1,3-Dichloropropene	ND ug/L		4.0	1		08/30/11 23:07	10061-01-5	
trans-1,3-Dichloropropene	ND ug/L		4.0	1		08/30/11 23:07	10061-02-6	
Diethyl ether (Ethyl ether)	ND ug/L		4.0	1		08/30/11 23:07	60-29-7	
Ethylbenzene	ND ug/L		1.0	1		08/30/11 23:07	100-41-4	
Hexachloro-1,3-butadiene	ND ug/L		5.0	1		08/30/11 23:07	87-68-3	
Isopropylbenzene (Cumene)	ND ug/L		1.0	1		08/30/11 23:07	98-82-8	
p-Isopropyltoluene	ND ug/L		1.0	1		08/30/11 23:07	99-87-6	
Methylene Chloride	ND ug/L		4.0	1		08/30/11 23:07	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND ug/L		4.0	1		08/30/11 23:07	108-10-1	
Methyl-tert-butyl ether	ND ug/L		1.0	1		08/30/11 23:07	1634-04-4	

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ANALYTICAL RESULTS

Project: CRC City of Rochester

Pace Project No.: 10167933

Sample: MW-15 **Lab ID: 10167933011** Collected: 08/28/11 07:30 Received: 08/29/11 13:56 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		08/30/11 23:07	91-20-3	
n-Propylbenzene	ND	ug/L	1.0	1		08/30/11 23:07	103-65-1	
Styrene	ND	ug/L	1.0	1		08/30/11 23:07	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		08/30/11 23:07	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		08/30/11 23:07	79-34-5	
Tetrachloroethene	1.2	ug/L	1.0	1		08/30/11 23:07	127-18-4	
Tetrahydrofuran	ND	ug/L	10.0	1		08/30/11 23:07	109-99-9	
Toluene	ND	ug/L	1.0	1		08/30/11 23:07	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		08/30/11 23:07	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		08/30/11 23:07	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		08/30/11 23:07	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		08/30/11 23:07	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		08/30/11 23:07	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		08/30/11 23:07	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	4.0	1		08/30/11 23:07	96-18-4	
1,1,2-Trichlorotrifluoroethane	1.1	ug/L	1.0	1		08/30/11 23:07	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1		08/30/11 23:07	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1		08/30/11 23:07	108-67-8	
Vinyl chloride	ND	ug/L	0.40	1		08/30/11 23:07	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		08/30/11 23:07	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		08/30/11 23:07	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		08/30/11 23:07	95-47-6	
Dibromofluoromethane (S)	104	%	75-125	1		08/30/11 23:07	1868-53-7	
1,2-Dichloroethane-d4 (S)	104	%	75-125	1		08/30/11 23:07	17060-07-0	
Toluene-d8 (S)	97	%	75-125	1		08/30/11 23:07	2037-26-5	
4-Bromofluorobenzene (S)	100	%	75-125	1		08/30/11 23:07	460-00-4	

ANALYTICAL RESULTS

Project: CRC City of Rochester

Pace Project No.: 10167933

Sample: MW-16		Lab ID: 10167933012	Collected: 08/28/11 08:30	Received: 08/29/11 13:56	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 VOC		Analytical Method: EPA 8260						
Acetone	ND	ug/L	50.0	2		08/31/11 00:45	67-64-1	CL
Allyl chloride	ND	ug/L	8.0	2		08/31/11 00:45	107-05-1	
Benzene	ND	ug/L	2.0	2		08/31/11 00:45	71-43-2	
Bromobenzene	ND	ug/L	2.0	2		08/31/11 00:45	108-86-1	
Bromochloromethane	ND	ug/L	2.0	2		08/31/11 00:45	74-97-5	
Bromodichloromethane	ND	ug/L	2.0	2		08/31/11 00:45	75-27-4	
Bromoform	ND	ug/L	8.0	2		08/31/11 00:45	75-25-2	
Bromomethane	ND	ug/L	8.0	2		08/31/11 00:45	74-83-9	
2-Butanone (MEK)	ND	ug/L	8.0	2		08/31/11 00:45	78-93-3	
n-Butylbenzene	ND	ug/L	2.0	2		08/31/11 00:45	104-51-8	
sec-Butylbenzene	ND	ug/L	2.0	2		08/31/11 00:45	135-98-8	
tert-Butylbenzene	ND	ug/L	2.0	2		08/31/11 00:45	98-06-6	
Carbon tetrachloride	ND	ug/L	2.0	2		08/31/11 00:45	56-23-5	
Chlorobenzene	ND	ug/L	2.0	2		08/31/11 00:45	108-90-7	
Chloroethane	ND	ug/L	2.0	2		08/31/11 00:45	75-00-3	
Chloroform	ND	ug/L	2.0	2		08/31/11 00:45	67-66-3	
Chloromethane	ND	ug/L	8.0	2		08/31/11 00:45	74-87-3	
2-Chlorotoluene	ND	ug/L	2.0	2		08/31/11 00:45	95-49-8	
4-Chlorotoluene	ND	ug/L	2.0	2		08/31/11 00:45	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	8.0	2		08/31/11 00:45	96-12-8	
Dibromochloromethane	ND	ug/L	2.0	2		08/31/11 00:45	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	2.0	2		08/31/11 00:45	106-93-4	
Dibromomethane	ND	ug/L	8.0	2		08/31/11 00:45	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	2.0	2		08/31/11 00:45	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	2.0	2		08/31/11 00:45	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	2.0	2		08/31/11 00:45	106-46-7	
Dichlorodifluoromethane	ND	ug/L	2.0	2		08/31/11 00:45	75-71-8	
1,1-Dichloroethane	ND	ug/L	2.0	2		08/31/11 00:45	75-34-3	
1,2-Dichloroethane	ND	ug/L	2.0	2		08/31/11 00:45	107-06-2	
1,1-Dichloroethene	ND	ug/L	2.0	2		08/31/11 00:45	75-35-4	
cis-1,2-Dichloroethene	7.3	ug/L	2.0	2		08/31/11 00:45	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	8.0	2		08/31/11 00:45	156-60-5	
Dichlorofluoromethane	ND	ug/L	2.0	2		08/31/11 00:45	75-43-4	
1,2-Dichloropropane	ND	ug/L	8.0	2		08/31/11 00:45	78-87-5	
1,3-Dichloropropane	ND	ug/L	2.0	2		08/31/11 00:45	142-28-9	
2,2-Dichloropropane	ND	ug/L	8.0	2		08/31/11 00:45	594-20-7	
1,1-Dichloropropene	ND	ug/L	2.0	2		08/31/11 00:45	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	8.0	2		08/31/11 00:45	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	8.0	2		08/31/11 00:45	10061-02-6	
Diethyl ether (Ethyl ether)	ND	ug/L	8.0	2		08/31/11 00:45	60-29-7	
Ethylbenzene	ND	ug/L	2.0	2		08/31/11 00:45	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	10.0	2		08/31/11 00:45	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	2.0	2		08/31/11 00:45	98-82-8	
p-Isopropyltoluene	ND	ug/L	2.0	2		08/31/11 00:45	99-87-6	
Methylene Chloride	ND	ug/L	8.0	2		08/31/11 00:45	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	8.0	2		08/31/11 00:45	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	2.0	2		08/31/11 00:45	1634-04-4	

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ANALYTICAL RESULTS

Project: CRC City of Rochester

Pace Project No.: 10167933

Sample: MW-16 **Lab ID: 10167933012** Collected: 08/28/11 08:30 Received: 08/29/11 13:56 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 VOC		Analytical Method: EPA 8260						
Naphthalene	ND	ug/L	8.0	2		08/31/11 00:45	91-20-3	
n-Propylbenzene	ND	ug/L	2.0	2		08/31/11 00:45	103-65-1	
Styrene	ND	ug/L	2.0	2		08/31/11 00:45	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	2.0	2		08/31/11 00:45	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	2.0	2		08/31/11 00:45	79-34-5	
Tetrachloroethene	590	ug/L	5.0	5		08/31/11 14:23	127-18-4	
Tetrahydrofuran	ND	ug/L	20.0	2		08/31/11 00:45	109-99-9	
Toluene	ND	ug/L	2.0	2		08/31/11 00:45	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	2		08/31/11 00:45	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	2		08/31/11 00:45	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	2.0	2		08/31/11 00:45	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	2.0	2		08/31/11 00:45	79-00-5	
Trichloroethene	ND	ug/L	2.0	2		08/31/11 00:45	79-01-6	
Trichlorofluoromethane	ND	ug/L	2.0	2		08/31/11 00:45	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	8.0	2		08/31/11 00:45	96-18-4	
1,1,2-Trichlorotrifluoroethane	19.7	ug/L	2.0	2		08/31/11 00:45	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/L	2.0	2		08/31/11 00:45	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	2.0	2		08/31/11 00:45	108-67-8	
Vinyl chloride	ND	ug/L	0.80	2		08/31/11 00:45	75-01-4	
Xylene (Total)	ND	ug/L	6.0	2		08/31/11 00:45	1330-20-7	
m&p-Xylene	ND	ug/L	4.0	2		08/31/11 00:45	179601-23-1	
o-Xylene	ND	ug/L	2.0	2		08/31/11 00:45	95-47-6	
Dibromofluoromethane (S)	106	%	75-125	2		08/31/11 00:45	1868-53-7	
1,2-Dichloroethane-d4 (S)	105	%	75-125	2		08/31/11 00:45	17060-07-0	
Toluene-d8 (S)	97	%	75-125	2		08/31/11 00:45	2037-26-5	
4-Bromofluorobenzene (S)	99	%	75-125	2		08/31/11 00:45	460-00-4	

ANALYTICAL RESULTS

Project: CRC City of Rochester

Pace Project No.: 10167933

Sample: MW-19	Lab ID: 10167933013	Collected: 08/28/11 12:30	Received: 08/29/11 13:56	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		08/30/11 23:23	67-64-1	CL
Allyl chloride	ND ug/L		4.0	1		08/30/11 23:23	107-05-1	
Benzene	ND ug/L		1.0	1		08/30/11 23:23	71-43-2	
Bromobenzene	ND ug/L		1.0	1		08/30/11 23:23	108-86-1	
Bromochloromethane	ND ug/L		1.0	1		08/30/11 23:23	74-97-5	
Bromodichloromethane	ND ug/L		1.0	1		08/30/11 23:23	75-27-4	
Bromoform	ND ug/L		4.0	1		08/30/11 23:23	75-25-2	
Bromomethane	ND ug/L		4.0	1		08/30/11 23:23	74-83-9	
2-Butanone (MEK)	ND ug/L		4.0	1		08/30/11 23:23	78-93-3	
n-Butylbenzene	ND ug/L		1.0	1		08/30/11 23:23	104-51-8	
sec-Butylbenzene	ND ug/L		1.0	1		08/30/11 23:23	135-98-8	
tert-Butylbenzene	ND ug/L		1.0	1		08/30/11 23:23	98-06-6	
Carbon tetrachloride	ND ug/L		1.0	1		08/30/11 23:23	56-23-5	
Chlorobenzene	ND ug/L		1.0	1		08/30/11 23:23	108-90-7	
Chloroethane	ND ug/L		1.0	1		08/30/11 23:23	75-00-3	
Chloroform	ND ug/L		1.0	1		08/30/11 23:23	67-66-3	
Chloromethane	ND ug/L		4.0	1		08/30/11 23:23	74-87-3	
2-Chlorotoluene	ND ug/L		1.0	1		08/30/11 23:23	95-49-8	
4-Chlorotoluene	ND ug/L		1.0	1		08/30/11 23:23	106-43-4	
1,2-Dibromo-3-chloropropane	ND ug/L		4.0	1		08/30/11 23:23	96-12-8	
Dibromochloromethane	ND ug/L		1.0	1		08/30/11 23:23	124-48-1	
1,2-Dibromoethane (EDB)	ND ug/L		1.0	1		08/30/11 23:23	106-93-4	
Dibromomethane	ND ug/L		4.0	1		08/30/11 23:23	74-95-3	
1,2-Dichlorobenzene	ND ug/L		1.0	1		08/30/11 23:23	95-50-1	
1,3-Dichlorobenzene	ND ug/L		1.0	1		08/30/11 23:23	541-73-1	
1,4-Dichlorobenzene	ND ug/L		1.0	1		08/30/11 23:23	106-46-7	
Dichlorodifluoromethane	ND ug/L		1.0	1		08/30/11 23:23	75-71-8	
1,1-Dichloroethane	ND ug/L		1.0	1		08/30/11 23:23	75-34-3	
1,2-Dichloroethane	ND ug/L		1.0	1		08/30/11 23:23	107-06-2	
1,1-Dichloroethene	ND ug/L		1.0	1		08/30/11 23:23	75-35-4	
cis-1,2-Dichloroethene	ND ug/L		1.0	1		08/30/11 23:23	156-59-2	
trans-1,2-Dichloroethene	ND ug/L		4.0	1		08/30/11 23:23	156-60-5	
Dichlorofluoromethane	ND ug/L		1.0	1		08/30/11 23:23	75-43-4	
1,2-Dichloropropane	ND ug/L		4.0	1		08/30/11 23:23	78-87-5	
1,3-Dichloropropane	ND ug/L		1.0	1		08/30/11 23:23	142-28-9	
2,2-Dichloropropane	ND ug/L		4.0	1		08/30/11 23:23	594-20-7	
1,1-Dichloropropene	ND ug/L		1.0	1		08/30/11 23:23	563-58-6	
cis-1,3-Dichloropropene	ND ug/L		4.0	1		08/30/11 23:23	10061-01-5	
trans-1,3-Dichloropropene	ND ug/L		4.0	1		08/30/11 23:23	10061-02-6	
Diethyl ether (Ethyl ether)	ND ug/L		4.0	1		08/30/11 23:23	60-29-7	
Ethylbenzene	ND ug/L		1.0	1		08/30/11 23:23	100-41-4	
Hexachloro-1,3-butadiene	ND ug/L		5.0	1		08/30/11 23:23	87-68-3	
Isopropylbenzene (Cumene)	ND ug/L		1.0	1		08/30/11 23:23	98-82-8	
p-Isopropyltoluene	ND ug/L		1.0	1		08/30/11 23:23	99-87-6	
Methylene Chloride	ND ug/L		4.0	1		08/30/11 23:23	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND ug/L		4.0	1		08/30/11 23:23	108-10-1	
Methyl-tert-butyl ether	ND ug/L		1.0	1		08/30/11 23:23	1634-04-4	

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ANALYTICAL RESULTS

Project: CRC City of Rochester

Pace Project No.: 10167933

Sample: MW-19		Lab ID: 10167933013	Collected: 08/28/11 12:30	Received: 08/29/11 13:56	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		08/30/11 23:23	91-20-3	
n-Propylbenzene	ND	ug/L	1.0	1		08/30/11 23:23	103-65-1	
Styrene	ND	ug/L	1.0	1		08/30/11 23:23	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		08/30/11 23:23	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		08/30/11 23:23	79-34-5	
Tetrachloroethene	2.9	ug/L	1.0	1		08/30/11 23:23	127-18-4	
Tetrahydrofuran	ND	ug/L	10.0	1		08/30/11 23:23	109-99-9	
Toluene	ND	ug/L	1.0	1		08/30/11 23:23	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		08/30/11 23:23	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		08/30/11 23:23	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		08/30/11 23:23	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		08/30/11 23:23	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		08/30/11 23:23	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		08/30/11 23:23	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	4.0	1		08/30/11 23:23	96-18-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/L	1.0	1		08/30/11 23:23	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1		08/30/11 23:23	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1		08/30/11 23:23	108-67-8	
Vinyl chloride	ND	ug/L	0.40	1		08/30/11 23:23	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		08/30/11 23:23	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		08/30/11 23:23	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		08/30/11 23:23	95-47-6	
Dibromofluoromethane (S)	106	%	75-125	1		08/30/11 23:23	1868-53-7	
1,2-Dichloroethane-d4 (S)	107	%	75-125	1		08/30/11 23:23	17060-07-0	
Toluene-d8 (S)	96	%	75-125	1		08/30/11 23:23	2037-26-5	
4-Bromofluorobenzene (S)	100	%	75-125	1		08/30/11 23:23	460-00-4	

ANALYTICAL RESULTS

Project: CRC City of Rochester

Pace Project No.: 10167933

Sample: MW-20	Lab ID: 10167933014	Collected: 08/28/11 13:00	Received: 08/29/11 13:56	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		08/31/11 00:12	67-64-1	CL
Allyl chloride	ND ug/L		4.0	1		08/31/11 00:12	107-05-1	
Benzene	ND ug/L		1.0	1		08/31/11 00:12	71-43-2	
Bromobenzene	ND ug/L		1.0	1		08/31/11 00:12	108-86-1	
Bromochloromethane	ND ug/L		1.0	1		08/31/11 00:12	74-97-5	
Bromodichloromethane	ND ug/L		1.0	1		08/31/11 00:12	75-27-4	
Bromoform	ND ug/L		4.0	1		08/31/11 00:12	75-25-2	
Bromomethane	ND ug/L		4.0	1		08/31/11 00:12	74-83-9	
2-Butanone (MEK)	ND ug/L		4.0	1		08/31/11 00:12	78-93-3	
n-Butylbenzene	ND ug/L		1.0	1		08/31/11 00:12	104-51-8	
sec-Butylbenzene	ND ug/L		1.0	1		08/31/11 00:12	135-98-8	
tert-Butylbenzene	ND ug/L		1.0	1		08/31/11 00:12	98-06-6	
Carbon tetrachloride	ND ug/L		1.0	1		08/31/11 00:12	56-23-5	
Chlorobenzene	ND ug/L		1.0	1		08/31/11 00:12	108-90-7	
Chloroethane	ND ug/L		1.0	1		08/31/11 00:12	75-00-3	
Chloroform	ND ug/L		1.0	1		08/31/11 00:12	67-66-3	
Chloromethane	ND ug/L		4.0	1		08/31/11 00:12	74-87-3	
2-Chlorotoluene	ND ug/L		1.0	1		08/31/11 00:12	95-49-8	
4-Chlorotoluene	ND ug/L		1.0	1		08/31/11 00:12	106-43-4	
1,2-Dibromo-3-chloropropane	ND ug/L		4.0	1		08/31/11 00:12	96-12-8	
Dibromochloromethane	ND ug/L		1.0	1		08/31/11 00:12	124-48-1	
1,2-Dibromoethane (EDB)	ND ug/L		1.0	1		08/31/11 00:12	106-93-4	
Dibromomethane	ND ug/L		4.0	1		08/31/11 00:12	74-95-3	
1,2-Dichlorobenzene	ND ug/L		1.0	1		08/31/11 00:12	95-50-1	
1,3-Dichlorobenzene	ND ug/L		1.0	1		08/31/11 00:12	541-73-1	
1,4-Dichlorobenzene	ND ug/L		1.0	1		08/31/11 00:12	106-46-7	
Dichlorodifluoromethane	ND ug/L		1.0	1		08/31/11 00:12	75-71-8	
1,1-Dichloroethane	ND ug/L		1.0	1		08/31/11 00:12	75-34-3	
1,2-Dichloroethane	ND ug/L		1.0	1		08/31/11 00:12	107-06-2	
1,1-Dichloroethene	ND ug/L		1.0	1		08/31/11 00:12	75-35-4	
cis-1,2-Dichloroethene	ND ug/L		1.0	1		08/31/11 00:12	156-59-2	
trans-1,2-Dichloroethene	ND ug/L		4.0	1		08/31/11 00:12	156-60-5	
Dichlorofluoromethane	ND ug/L		1.0	1		08/31/11 00:12	75-43-4	
1,2-Dichloropropane	ND ug/L		4.0	1		08/31/11 00:12	78-87-5	
1,3-Dichloropropane	ND ug/L		1.0	1		08/31/11 00:12	142-28-9	
2,2-Dichloropropane	ND ug/L		4.0	1		08/31/11 00:12	594-20-7	
1,1-Dichloropropene	ND ug/L		1.0	1		08/31/11 00:12	563-58-6	
cis-1,3-Dichloropropene	ND ug/L		4.0	1		08/31/11 00:12	10061-01-5	
trans-1,3-Dichloropropene	ND ug/L		4.0	1		08/31/11 00:12	10061-02-6	
Diethyl ether (Ethyl ether)	ND ug/L		4.0	1		08/31/11 00:12	60-29-7	
Ethylbenzene	ND ug/L		1.0	1		08/31/11 00:12	100-41-4	
Hexachloro-1,3-butadiene	ND ug/L		5.0	1		08/31/11 00:12	87-68-3	
Isopropylbenzene (Cumene)	ND ug/L		1.0	1		08/31/11 00:12	98-82-8	
p-Isopropyltoluene	ND ug/L		1.0	1		08/31/11 00:12	99-87-6	
Methylene Chloride	ND ug/L		4.0	1		08/31/11 00:12	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND ug/L		4.0	1		08/31/11 00:12	108-10-1	
Methyl-tert-butyl ether	ND ug/L		1.0	1		08/31/11 00:12	1634-04-4	

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ANALYTICAL RESULTS

Project: CRC City of Rochester

Pace Project No.: 10167933

Sample: MW-20		Lab ID: 10167933014	Collected: 08/28/11 13:00	Received: 08/29/11 13:56	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		08/31/11 00:12	91-20-3	
n-Propylbenzene	ND	ug/L	1.0	1		08/31/11 00:12	103-65-1	
Styrene	ND	ug/L	1.0	1		08/31/11 00:12	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		08/31/11 00:12	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		08/31/11 00:12	79-34-5	
Tetrachloroethene	12.2	ug/L	1.0	1		08/31/11 00:12	127-18-4	
Tetrahydrofuran	ND	ug/L	10.0	1		08/31/11 00:12	109-99-9	
Toluene	ND	ug/L	1.0	1		08/31/11 00:12	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		08/31/11 00:12	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		08/31/11 00:12	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		08/31/11 00:12	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		08/31/11 00:12	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		08/31/11 00:12	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		08/31/11 00:12	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	4.0	1		08/31/11 00:12	96-18-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/L	1.0	1		08/31/11 00:12	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1		08/31/11 00:12	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1		08/31/11 00:12	108-67-8	
Vinyl chloride	ND	ug/L	0.40	1		08/31/11 00:12	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		08/31/11 00:12	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		08/31/11 00:12	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		08/31/11 00:12	95-47-6	
Dibromofluoromethane (S)	107	%	75-125	1		08/31/11 00:12	1868-53-7	
1,2-Dichloroethane-d4 (S)	107	%	75-125	1		08/31/11 00:12	17060-07-0	
Toluene-d8 (S)	96	%	75-125	1		08/31/11 00:12	2037-26-5	
4-Bromofluorobenzene (S)	99	%	75-125	1		08/31/11 00:12	460-00-4	

ANALYTICAL RESULTS

Project: CRC City of Rochester

Pace Project No.: 10167933

Sample: MW-14	Lab ID: 10167933015	Collected: 08/28/11 07:30	Received: 08/29/11 13:56	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		08/30/11 23:39	67-64-1	CL
Allyl chloride	ND ug/L		4.0	1		08/30/11 23:39	107-05-1	
Benzene	ND ug/L		1.0	1		08/30/11 23:39	71-43-2	
Bromobenzene	ND ug/L		1.0	1		08/30/11 23:39	108-86-1	
Bromochloromethane	ND ug/L		1.0	1		08/30/11 23:39	74-97-5	
Bromodichloromethane	ND ug/L		1.0	1		08/30/11 23:39	75-27-4	
Bromoform	ND ug/L		4.0	1		08/30/11 23:39	75-25-2	
Bromomethane	ND ug/L		4.0	1		08/30/11 23:39	74-83-9	
2-Butanone (MEK)	ND ug/L		4.0	1		08/30/11 23:39	78-93-3	
n-Butylbenzene	ND ug/L		1.0	1		08/30/11 23:39	104-51-8	
sec-Butylbenzene	ND ug/L		1.0	1		08/30/11 23:39	135-98-8	
tert-Butylbenzene	ND ug/L		1.0	1		08/30/11 23:39	98-06-6	
Carbon tetrachloride	ND ug/L		1.0	1		08/30/11 23:39	56-23-5	
Chlorobenzene	ND ug/L		1.0	1		08/30/11 23:39	108-90-7	
Chloroethane	ND ug/L		1.0	1		08/30/11 23:39	75-00-3	
Chloroform	1.6 ug/L		1.0	1		08/30/11 23:39	67-66-3	
Chloromethane	ND ug/L		4.0	1		08/30/11 23:39	74-87-3	
2-Chlorotoluene	ND ug/L		1.0	1		08/30/11 23:39	95-49-8	
4-Chlorotoluene	ND ug/L		1.0	1		08/30/11 23:39	106-43-4	
1,2-Dibromo-3-chloropropane	ND ug/L		4.0	1		08/30/11 23:39	96-12-8	
Dibromochloromethane	ND ug/L		1.0	1		08/30/11 23:39	124-48-1	
1,2-Dibromoethane (EDB)	ND ug/L		1.0	1		08/30/11 23:39	106-93-4	
Dibromomethane	ND ug/L		4.0	1		08/30/11 23:39	74-95-3	
1,2-Dichlorobenzene	ND ug/L		1.0	1		08/30/11 23:39	95-50-1	
1,3-Dichlorobenzene	ND ug/L		1.0	1		08/30/11 23:39	541-73-1	
1,4-Dichlorobenzene	ND ug/L		1.0	1		08/30/11 23:39	106-46-7	
Dichlorodifluoromethane	ND ug/L		1.0	1		08/30/11 23:39	75-71-8	
1,1-Dichloroethane	ND ug/L		1.0	1		08/30/11 23:39	75-34-3	
1,2-Dichloroethane	ND ug/L		1.0	1		08/30/11 23:39	107-06-2	
1,1-Dichloroethene	ND ug/L		1.0	1		08/30/11 23:39	75-35-4	
cis-1,2-Dichloroethene	ND ug/L		1.0	1		08/30/11 23:39	156-59-2	
trans-1,2-Dichloroethene	ND ug/L		4.0	1		08/30/11 23:39	156-60-5	
Dichlorofluoromethane	ND ug/L		1.0	1		08/30/11 23:39	75-43-4	
1,2-Dichloropropane	ND ug/L		4.0	1		08/30/11 23:39	78-87-5	
1,3-Dichloropropane	ND ug/L		1.0	1		08/30/11 23:39	142-28-9	
2,2-Dichloropropane	ND ug/L		4.0	1		08/30/11 23:39	594-20-7	
1,1-Dichloropropene	ND ug/L		1.0	1		08/30/11 23:39	563-58-6	
cis-1,3-Dichloropropene	ND ug/L		4.0	1		08/30/11 23:39	10061-01-5	
trans-1,3-Dichloropropene	ND ug/L		4.0	1		08/30/11 23:39	10061-02-6	
Diethyl ether (Ethyl ether)	ND ug/L		4.0	1		08/30/11 23:39	60-29-7	
Ethylbenzene	ND ug/L		1.0	1		08/30/11 23:39	100-41-4	
Hexachloro-1,3-butadiene	ND ug/L		5.0	1		08/30/11 23:39	87-68-3	
Isopropylbenzene (Cumene)	ND ug/L		1.0	1		08/30/11 23:39	98-82-8	
p-Isopropyltoluene	ND ug/L		1.0	1		08/30/11 23:39	99-87-6	
Methylene Chloride	ND ug/L		4.0	1		08/30/11 23:39	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND ug/L		4.0	1		08/30/11 23:39	108-10-1	
Methyl-tert-butyl ether	ND ug/L		1.0	1		08/30/11 23:39	1634-04-4	

Date: 09/06/2011 04:00 PM

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: CRC City of Rochester

Pace Project No.: 10167933

Sample: MW-14		Lab ID: 10167933015	Collected: 08/28/11 07:30	Received: 08/29/11 13:56	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		08/30/11 23:39	91-20-3	
n-Propylbenzene	ND	ug/L	1.0	1		08/30/11 23:39	103-65-1	
Styrene	ND	ug/L	1.0	1		08/30/11 23:39	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		08/30/11 23:39	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		08/30/11 23:39	79-34-5	
Tetrachloroethene	1.5	ug/L	1.0	1		08/30/11 23:39	127-18-4	
Tetrahydrofuran	ND	ug/L	10.0	1		08/30/11 23:39	109-99-9	
Toluene	ND	ug/L	1.0	1		08/30/11 23:39	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		08/30/11 23:39	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		08/30/11 23:39	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		08/30/11 23:39	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		08/30/11 23:39	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		08/30/11 23:39	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		08/30/11 23:39	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	4.0	1		08/30/11 23:39	96-18-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/L	1.0	1		08/30/11 23:39	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1		08/30/11 23:39	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1		08/30/11 23:39	108-67-8	
Vinyl chloride	ND	ug/L	0.40	1		08/30/11 23:39	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		08/30/11 23:39	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		08/30/11 23:39	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		08/30/11 23:39	95-47-6	
Dibromofluoromethane (S)	106	%	75-125	1		08/30/11 23:39	1868-53-7	
1,2-Dichloroethane-d4 (S)	106	%	75-125	1		08/30/11 23:39	17060-07-0	
Toluene-d8 (S)	97	%	75-125	1		08/30/11 23:39	2037-26-5	
4-Bromofluorobenzene (S)	98	%	75-125	1		08/30/11 23:39	460-00-4	

ANALYTICAL RESULTS

Project: CRC City of Rochester

Pace Project No.: 10167933

Sample: Trip Blank		Lab ID: 10167933016	Collected:	Received: 08/29/11 13:56	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		08/30/11 22:02	67-64-1	CL
Allyl chloride	ND ug/L		4.0	1		08/30/11 22:02	107-05-1	
Benzene	ND ug/L		1.0	1		08/30/11 22:02	71-43-2	
Bromobenzene	ND ug/L		1.0	1		08/30/11 22:02	108-86-1	
Bromochloromethane	ND ug/L		1.0	1		08/30/11 22:02	74-97-5	
Bromodichloromethane	ND ug/L		1.0	1		08/30/11 22:02	75-27-4	
Bromoform	ND ug/L		4.0	1		08/30/11 22:02	75-25-2	
Bromomethane	ND ug/L		4.0	1		08/30/11 22:02	74-83-9	
2-Butanone (MEK)	ND ug/L		4.0	1		08/30/11 22:02	78-93-3	
n-Butylbenzene	ND ug/L		1.0	1		08/30/11 22:02	104-51-8	
sec-Butylbenzene	ND ug/L		1.0	1		08/30/11 22:02	135-98-8	
tert-Butylbenzene	ND ug/L		1.0	1		08/30/11 22:02	98-06-6	
Carbon tetrachloride	ND ug/L		1.0	1		08/30/11 22:02	56-23-5	
Chlorobenzene	ND ug/L		1.0	1		08/30/11 22:02	108-90-7	
Chloroethane	ND ug/L		1.0	1		08/30/11 22:02	75-00-3	
Chloroform	ND ug/L		1.0	1		08/30/11 22:02	67-66-3	
Chloromethane	ND ug/L		4.0	1		08/30/11 22:02	74-87-3	
2-Chlorotoluene	ND ug/L		1.0	1		08/30/11 22:02	95-49-8	
4-Chlorotoluene	ND ug/L		1.0	1		08/30/11 22:02	106-43-4	
1,2-Dibromo-3-chloropropane	ND ug/L		4.0	1		08/30/11 22:02	96-12-8	
Dibromochloromethane	ND ug/L		1.0	1		08/30/11 22:02	124-48-1	
1,2-Dibromoethane (EDB)	ND ug/L		1.0	1		08/30/11 22:02	106-93-4	
Dibromomethane	ND ug/L		4.0	1		08/30/11 22:02	74-95-3	
1,2-Dichlorobenzene	ND ug/L		1.0	1		08/30/11 22:02	95-50-1	
1,3-Dichlorobenzene	ND ug/L		1.0	1		08/30/11 22:02	541-73-1	
1,4-Dichlorobenzene	ND ug/L		1.0	1		08/30/11 22:02	106-46-7	
Dichlorodifluoromethane	ND ug/L		1.0	1		08/30/11 22:02	75-71-8	
1,1-Dichloroethane	ND ug/L		1.0	1		08/30/11 22:02	75-34-3	
1,2-Dichloroethane	ND ug/L		1.0	1		08/30/11 22:02	107-06-2	
1,1-Dichloroethene	ND ug/L		1.0	1		08/30/11 22:02	75-35-4	
cis-1,2-Dichloroethene	ND ug/L		1.0	1		08/30/11 22:02	156-59-2	
trans-1,2-Dichloroethene	ND ug/L		4.0	1		08/30/11 22:02	156-60-5	
Dichlorofluoromethane	ND ug/L		1.0	1		08/30/11 22:02	75-43-4	
1,2-Dichloropropane	ND ug/L		4.0	1		08/30/11 22:02	78-87-5	
1,3-Dichloropropane	ND ug/L		1.0	1		08/30/11 22:02	142-28-9	
2,2-Dichloropropane	ND ug/L		4.0	1		08/30/11 22:02	594-20-7	
1,1-Dichloropropene	ND ug/L		1.0	1		08/30/11 22:02	563-58-6	
cis-1,3-Dichloropropene	ND ug/L		4.0	1		08/30/11 22:02	10061-01-5	
trans-1,3-Dichloropropene	ND ug/L		4.0	1		08/30/11 22:02	10061-02-6	
Diethyl ether (Ethyl ether)	ND ug/L		4.0	1		08/30/11 22:02	60-29-7	
Ethylbenzene	ND ug/L		1.0	1		08/30/11 22:02	100-41-4	
Hexachloro-1,3-butadiene	ND ug/L		5.0	1		08/30/11 22:02	87-68-3	
Isopropylbenzene (Cumene)	ND ug/L		1.0	1		08/30/11 22:02	98-82-8	
p-Isopropyltoluene	ND ug/L		1.0	1		08/30/11 22:02	99-87-6	
Methylene Chloride	ND ug/L		4.0	1		08/30/11 22:02	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND ug/L		4.0	1		08/30/11 22:02	108-10-1	
Methyl-tert-butyl ether	ND ug/L		1.0	1		08/30/11 22:02	1634-04-4	

Date: 09/06/2011 04:00 PM

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: CRC City of Rochester

Pace Project No.: 10167933

Sample: Trip Blank		Lab ID: 10167933016	Collected:	Received: 08/29/11 13:56	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		08/30/11 22:02	91-20-3	
n-Propylbenzene	ND	ug/L	1.0	1		08/30/11 22:02	103-65-1	
Styrene	ND	ug/L	1.0	1		08/30/11 22:02	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		08/30/11 22:02	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		08/30/11 22:02	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		08/30/11 22:02	127-18-4	
Tetrahydrofuran	ND	ug/L	10.0	1		08/30/11 22:02	109-99-9	
Toluene	ND	ug/L	1.0	1		08/30/11 22:02	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		08/30/11 22:02	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		08/30/11 22:02	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		08/30/11 22:02	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		08/30/11 22:02	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		08/30/11 22:02	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		08/30/11 22:02	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	4.0	1		08/30/11 22:02	96-18-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/L	1.0	1		08/30/11 22:02	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1		08/30/11 22:02	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1		08/30/11 22:02	108-67-8	
Vinyl chloride	ND	ug/L	0.40	1		08/30/11 22:02	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		08/30/11 22:02	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		08/30/11 22:02	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		08/30/11 22:02	95-47-6	
Dibromofluoromethane (S)	104	%	75-125	1		08/30/11 22:02	1868-53-7	
1,2-Dichloroethane-d4 (S)	105	%	75-125	1		08/30/11 22:02	17060-07-0	
Toluene-d8 (S)	97	%	75-125	1		08/30/11 22:02	2037-26-5	
4-Bromofluorobenzene (S)	101	%	75-125	1		08/30/11 22:02	460-00-4	

QUALITY CONTROL DATA

Project: CRC City of Rochester
Pace Project No.: 10167933

QC Batch: MSV/17805 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV 465 W
Associated Lab Samples: 10167933001, 10167933002, 10167933004

METHOD BLANK: 1044236 Matrix: Water
Associated Lab Samples: 10167933001, 10167933002, 10167933004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	1.0	08/30/11 10:58	
1,1,1-Trichloroethane	ug/L	ND	1.0	08/30/11 10:58	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	08/30/11 10:58	
1,1,2-Trichloroethane	ug/L	ND	1.0	08/30/11 10:58	
1,1,2-Trichlorotrifluoroethane	ug/L	ND	1.0	08/30/11 10:58	
1,1-Dichloroethane	ug/L	ND	1.0	08/30/11 10:58	
1,1-Dichloroethene	ug/L	ND	1.0	08/30/11 10:58	
1,1-Dichloropropene	ug/L	ND	1.0	08/30/11 10:58	
1,2,3-Trichlorobenzene	ug/L	ND	1.0	08/30/11 10:58	
1,2,3-Trichloropropane	ug/L	ND	4.0	08/30/11 10:58	
1,2,4-Trichlorobenzene	ug/L	ND	1.0	08/30/11 10:58	
1,2,4-Trimethylbenzene	ug/L	ND	1.0	08/30/11 10:58	
1,2-Dibromo-3-chloropropane	ug/L	ND	4.0	08/30/11 10:58	
1,2-Dibromoethane (EDB)	ug/L	ND	1.0	08/30/11 10:58	
1,2-Dichlorobenzene	ug/L	ND	1.0	08/30/11 10:58	
1,2-Dichloroethane	ug/L	ND	1.0	08/30/11 10:58	
1,2-Dichloropropane	ug/L	ND	4.0	08/30/11 10:58	
1,3,5-Trimethylbenzene	ug/L	ND	1.0	08/30/11 10:58	
1,3-Dichlorobenzene	ug/L	ND	1.0	08/30/11 10:58	
1,3-Dichloropropane	ug/L	ND	1.0	08/30/11 10:58	
1,4-Dichlorobenzene	ug/L	ND	1.0	08/30/11 10:58	
2,2-Dichloropropane	ug/L	ND	4.0	08/30/11 10:58	
2-Butanone (MEK)	ug/L	ND	4.0	08/30/11 10:58	
2-Chlorotoluene	ug/L	ND	1.0	08/30/11 10:58	
4-Chlorotoluene	ug/L	ND	1.0	08/30/11 10:58	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	4.0	08/30/11 10:58	
Acetone	ug/L	ND	25.0	08/30/11 10:58	
Allyl chloride	ug/L	ND	4.0	08/30/11 10:58	
Benzene	ug/L	ND	1.0	08/30/11 10:58	
Bromobenzene	ug/L	ND	1.0	08/30/11 10:58	
Bromochloromethane	ug/L	ND	1.0	08/30/11 10:58	
Bromodichloromethane	ug/L	ND	1.0	08/30/11 10:58	
Bromoform	ug/L	ND	4.0	08/30/11 10:58	
Bromomethane	ug/L	ND	4.0	08/30/11 10:58	
Carbon tetrachloride	ug/L	ND	1.0	08/30/11 10:58	
Chlorobenzene	ug/L	ND	1.0	08/30/11 10:58	
Chloroethane	ug/L	ND	1.0	08/30/11 10:58	
Chloroform	ug/L	ND	1.0	08/30/11 10:58	
Chloromethane	ug/L	ND	4.0	08/30/11 10:58	
cis-1,2-Dichloroethene	ug/L	ND	1.0	08/30/11 10:58	
cis-1,3-Dichloropropene	ug/L	ND	4.0	08/30/11 10:58	
Dibromochloromethane	ug/L	ND	1.0	08/30/11 10:58	
Dibromomethane	ug/L	ND	4.0	08/30/11 10:58	

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QUALITY CONTROL DATA

Project: CRC City of Rochester
Pace Project No.: 10167933

METHOD BLANK: 1044236 Matrix: Water

Associated Lab Samples: 10167933001, 10167933002, 10167933004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Dichlorodifluoromethane	ug/L	ND	1.0	08/30/11 10:58	
Dichlorofluoromethane	ug/L	ND	1.0	08/30/11 10:58	
Diethyl ether (Ethyl ether)	ug/L	ND	4.0	08/30/11 10:58	
Ethylbenzene	ug/L	ND	1.0	08/30/11 10:58	
Hexachloro-1,3-butadiene	ug/L	ND	5.0	08/30/11 10:58	
Isopropylbenzene (Cumene)	ug/L	ND	1.0	08/30/11 10:58	
m&p-Xylene	ug/L	ND	2.0	08/30/11 10:58	
Methyl-tert-butyl ether	ug/L	ND	1.0	08/30/11 10:58	
Methylene Chloride	ug/L	ND	4.0	08/30/11 10:58	
n-Butylbenzene	ug/L	ND	1.0	08/30/11 10:58	
n-Propylbenzene	ug/L	ND	1.0	08/30/11 10:58	
Naphthalene	ug/L	ND	4.0	08/30/11 10:58	
o-Xylene	ug/L	ND	1.0	08/30/11 10:58	
p-Isopropyltoluene	ug/L	ND	1.0	08/30/11 10:58	
sec-Butylbenzene	ug/L	ND	1.0	08/30/11 10:58	
Styrene	ug/L	ND	1.0	08/30/11 10:58	
tert-Butylbenzene	ug/L	ND	1.0	08/30/11 10:58	
Tetrachloroethene	ug/L	ND	1.0	08/30/11 10:58	
Tetrahydrofuran	ug/L	ND	10.0	08/30/11 10:58	
Toluene	ug/L	ND	1.0	08/30/11 10:58	
trans-1,2-Dichloroethene	ug/L	ND	4.0	08/30/11 10:58	
trans-1,3-Dichloropropene	ug/L	ND	4.0	08/30/11 10:58	
Trichloroethene	ug/L	ND	1.0	08/30/11 10:58	
Trichlorofluoromethane	ug/L	ND	1.0	08/30/11 10:58	
Vinyl chloride	ug/L	ND	0.40	08/30/11 10:58	
Xylene (Total)	ug/L	ND	3.0	08/30/11 10:58	
1,2-Dichloroethane-d4 (S)	%	97	75-125	08/30/11 10:58	
4-Bromofluorobenzene (S)	%	93	75-125	08/30/11 10:58	
Dibromofluoromethane (S)	%	105	75-125	08/30/11 10:58	
Toluene-d8 (S)	%	100	75-125	08/30/11 10:58	

LABORATORY CONTROL SAMPLE: 1044237

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	51.5	103	75-125	
1,1,1-Trichloroethane	ug/L	50	51.1	102	75-125	
1,1,2,2-Tetrachloroethane	ug/L	50	54.3	109	75-125	
1,1,2-Trichloroethane	ug/L	50	52.8	106	75-125	
1,1,2-Trichlorotrifluoroethane	ug/L	50	44.8	90	75-126	
1,1-Dichloroethane	ug/L	50	53.6	107	75-125	
1,1-Dichloroethene	ug/L	50	53.8	108	75-125	
1,1-Dichloropropene	ug/L	50	57.0	114	75-125	
1,2,3-Trichlorobenzene	ug/L	50	50.4	101	68-128	
1,2,3-Trichloropropane	ug/L	50	49.9	100	75-125	
1,2,4-Trichlorobenzene	ug/L	50	50.2	100	75-125	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: CRC City of Rochester

Pace Project No.: 10167933

LABORATORY CONTROL SAMPLE: 1044237

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,4-Trimethylbenzene	ug/L	50	50.4	101	75-125	
1,2-Dibromo-3-chloropropane	ug/L	50	47.0	94	68-125	
1,2-Dibromoethane (EDB)	ug/L	50	49.1	98	75-125	
1,2-Dichlorobenzene	ug/L	50	51.4	103	75-125	
1,2-Dichloroethane	ug/L	50	51.2	102	71-125	
1,2-Dichloropropane	ug/L	50	52.2	104	75-125	
1,3,5-Trimethylbenzene	ug/L	50	48.4	97	75-125	
1,3-Dichlorobenzene	ug/L	50	50.7	101	75-125	
1,3-Dichloropropane	ug/L	50	57.6	115	75-125	
1,4-Dichlorobenzene	ug/L	50	50.9	102	75-125	
2,2-Dichloropropane	ug/L	50	50.5	101	69-132	
2-Butanone (MEK)	ug/L	50	44.2	88	56-137	
2-Chlorotoluene	ug/L	50	50.3	101	75-125	
4-Chlorotoluene	ug/L	50	50.8	102	75-125	
4-Methyl-2-pentanone (MIBK)	ug/L	50	48.1	96	67-125	
Acetone	ug/L	125	93.7	75	41-130	
Allyl chloride	ug/L	50	63.8	128	59-130	
Benzene	ug/L	50	57.7	115	75-125	
Bromobenzene	ug/L	50	50.4	101	75-125	
Bromochloromethane	ug/L	50	55.5	111	75-125	
Bromodichloromethane	ug/L	50	53.8	108	75-125	
Bromoform	ug/L	50	49.5	99	75-125	
Bromomethane	ug/L	50	57.7	115	45-138	
Carbon tetrachloride	ug/L	50	47.7	95	75-125	
Chlorobenzene	ug/L	50	54.9	110	75-125	
Chloroethane	ug/L	50	60.3	121	72-125	
Chloroform	ug/L	50	54.7	109	75-125	
Chloromethane	ug/L	50	51.2	102	65-125	
cis-1,2-Dichloroethene	ug/L	50	58.0	116	75-125	
cis-1,3-Dichloropropene	ug/L	50	57.0	114	75-125	
Dibromochloromethane	ug/L	50	48.8	98	75-125	
Dibromomethane	ug/L	50	55.1	110	75-125	
Dichlorodifluoromethane	ug/L	50	43.0	86	55-143	
Dichlorofluoromethane	ug/L	50	56.6	113	75-125	
Diethyl ether (Ethyl ether)	ug/L	50	54.6	109	75-125	
Ethylbenzene	ug/L	50	51.9	104	75-125	
Hexachloro-1,3-butadiene	ug/L	25	21.5	86	69-132	
Isopropylbenzene (Cumene)	ug/L	50	49.9	100	75-125	
m&p-Xylene	ug/L	100	102	102	75-125	
Methyl-tert-butyl ether	ug/L	50	53.6	107	75-125	
Methylene Chloride	ug/L	50	50.1	100	75-125	
n-Butylbenzene	ug/L	50	49.1	98	75-125	
n-Propylbenzene	ug/L	50	52.1	104	75-125	
Naphthalene	ug/L	50	48.0	96	74-129	
o-Xylene	ug/L	50	53.8	108	75-125	
p-Isopropyltoluene	ug/L	50	49.3	99	75-125	
sec-Butylbenzene	ug/L	50	49.7	99	75-125	
Styrene	ug/L	50	53.8	108	75-125	

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QUALITY CONTROL DATA

Project: CRC City of Rochester

Pace Project No.: 10167933

LABORATORY CONTROL SAMPLE: 1044237

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
tert-Butylbenzene	ug/L	50	49.4	99	75-125	
Tetrachloroethene	ug/L	50	53.1	106	75-125	
Tetrahydrofuran	ug/L	500	559	112	64-128	
Toluene	ug/L	50	55.0	110	75-125	
trans-1,2-Dichloroethene	ug/L	50	57.1	114	75-125	
trans-1,3-Dichloropropene	ug/L	50	52.2	104	75-125	
Trichloroethene	ug/L	50	56.1	112	75-125	
Trichlorofluoromethane	ug/L	50	57.1	114	75-125	
Vinyl chloride	ug/L	50	50.0	100	74-125	
Xylene (Total)	ug/L	150	156	104	75-125	
1,2-Dichloroethane-d4 (S)	%			94	75-125	
4-Bromofluorobenzene (S)	%			94	75-125	
Dibromofluoromethane (S)	%			100	75-125	
Toluene-d8 (S)	%			103	75-125	

MATRIX SPIKE SAMPLE: 1044238

Parameter	Units	10167933002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	50	53.4	107	75-125	
1,1,1-Trichloroethane	ug/L	ND	50	63.0	126	75-128	
1,1,2,2-Tetrachloroethane	ug/L	ND	50	56.2	112	75-125	
1,1,2-Trichloroethane	ug/L	ND	50	53.2	106	75-125	
1,1,2-Trichlorotrifluoroethane	ug/L	ND	50	72.1	144	75-150	
1,1-Dichloroethane	ug/L	ND	50	61.0	122	75-125	
1,1-Dichloroethene	ug/L	ND	50	67.7	135	75-134	M1
1,1-Dichloropropene	ug/L	ND	50	70.3	141	75-131	M1
1,2,3-Trichlorobenzene	ug/L	ND	50	50.5	101	67-145	
1,2,3-Trichloropropane	ug/L	ND	50	51.5	103	75-125	
1,2,4-Trichlorobenzene	ug/L	ND	50	51.6	103	74-138	
1,2,4-Trimethylbenzene	ug/L	ND	50	54.0	108	75-126	
1,2-Dibromo-3-chloropropane	ug/L	ND	50	48.9	98	68-129	
1,2-Dibromoethane (EDB)	ug/L	ND	50	50.5	101	75-125	
1,2-Dichlorobenzene	ug/L	ND	50	53.4	107	75-125	
1,2-Dichloroethane	ug/L	ND	50	54.0	108	69-129	
1,2-Dichloropropane	ug/L	ND	50	55.6	111	75-125	
1,3,5-Trimethylbenzene	ug/L	ND	50	53.6	107	75-125	
1,3-Dichlorobenzene	ug/L	ND	50	54.7	109	75-125	
1,3-Dichloropropane	ug/L	ND	50	59.1	118	75-125	
1,4-Dichlorobenzene	ug/L	ND	50	53.4	107	75-125	
2,2-Dichloropropane	ug/L	ND	50	63.2	126	69-141	
2-Butanone (MEK)	ug/L	ND	50	41.5	83	42-137	
2-Chlorotoluene	ug/L	ND	50	55.7	111	68-147	
4-Chlorotoluene	ug/L	ND	50	55.0	110	75-130	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	50	50.4	101	57-126	
Acetone	ug/L	ND	125	76.6	61	34-130	
Allyl chloride	ug/L	ND	50	75.3	151	53-140	M1
Benzene	ug/L	ND	50	64.5	129	73-136	

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QUALITY CONTROL DATA

Project: CRC City of Rochester
Pace Project No.: 10167933

MATRIX SPIKE SAMPLE: 1044238		10167933002	Spike	MS	MS	% Rec	
Parameter	Units	Result	Conc.	Result	% Rec	Limits	Qualifiers
Bromobenzene	ug/L	ND	50	54.5	109	75-125	
Bromochloromethane	ug/L	ND	50	57.6	115	75-125	
Bromodichloromethane	ug/L	ND	50	57.5	115	75-125	
Bromoform	ug/L	ND	50	50.8	102	75-125	
Bromomethane	ug/L	ND	50	61.9	124	41-150	
Carbon tetrachloride	ug/L	ND	50	60.0	120	75-135	
Chlorobenzene	ug/L	ND	50	59.0	118	75-125	
Chloroethane	ug/L	ND	50	74.3	149	71-139	M1
Chloroform	ug/L	ND	50	60.8	122	75-125	
Chloromethane	ug/L	ND	50	59.2	118	65-144	
cis-1,2-Dichloroethene	ug/L	ND	50	63.1	126	75-125	M1
cis-1,3-Dichloropropene	ug/L	ND	50	60.1	120	75-125	
Dibromochloromethane	ug/L	ND	50	51.1	102	75-125	
Dibromomethane	ug/L	ND	50	55.9	112	75-125	
Dichlorodifluoromethane	ug/L	ND	50	63.1	126	55-150	
Dichlorofluoromethane	ug/L	ND	50	67.8	136	75-129	M1
Diethyl ether (Ethyl ether)	ug/L	ND	50	54.9	110	75-125	
Ethylbenzene	ug/L	ND	50	58.4	117	75-137	
Hexachloro-1,3-butadiene	ug/L	ND	25	23.9	96	69-150	
Isopropylbenzene (Cumene)	ug/L	ND	50	56.4	113	75-125	
m&p-Xylene	ug/L	ND	100	113	113	71-133	
Methyl-tert-butyl ether	ug/L	ND	50	55.3	111	75-125	
Methylene Chloride	ug/L	ND	50	53.4	107	75-125	
n-Butylbenzene	ug/L	ND	50	54.6	109	75-141	
n-Propylbenzene	ug/L	ND	50	58.8	118	75-132	
Naphthalene	ug/L	ND	50	48.9	98	74-138	
o-Xylene	ug/L	ND	50	57.9	116	75-128	
p-Isopropyltoluene	ug/L	ND	50	54.0	108	75-133	
sec-Butylbenzene	ug/L	ND	50	55.4	111	75-136	
Styrene	ug/L	ND	50	56.9	114	72-125	
tert-Butylbenzene	ug/L	ND	50	54.8	110	75-132	
Tetrachloroethene	ug/L	3.6	50	66.5	126	75-126	
Tetrahydrofuran	ug/L	ND	500	569	114	64-128	
Toluene	ug/L	ND	50	60.9	122	75-125	
trans-1,2-Dichloroethene	ug/L	ND	50	68.4	137	75-127	M1
trans-1,3-Dichloropropene	ug/L	ND	50	52.7	105	75-125	
Trichloroethene	ug/L	ND	50	64.3	129	75-125	M1
Trichlorofluoromethane	ug/L	ND	50	79.9	160	75-150	M1
Vinyl chloride	ug/L	ND	50	62.0	124	74-142	
Xylene (Total)	ug/L	ND	150	171	114	73-132	
1,2-Dichloroethane-d4 (S)	%				96	75-125	
4-Bromofluorobenzene (S)	%				95	75-125	
Dibromofluoromethane (S)	%				101	75-125	
Toluene-d8 (S)	%				103	75-125	

QUALITY CONTROL DATA

Project: CRC City of Rochester

Pace Project No.: 10167933

SAMPLE DUPLICATE: 1044239

Parameter	Units	10167933001 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	6.5	6.5	.1	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	.98J		30	
Chloromethane	ug/L	ND	1.1J		30	
cis-1,2-Dichloroethene	ug/L	1.3	1.2	7	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.: 10167933

SAMPLE DUPLICATE: 1044239

Parameter	Units	10167933001 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	107	112	5	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	.89J		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)	%	99	97	1		
4-Bromofluorobenzene (S)	%	96	94	1		
Dibromofluoromethane (S)	%	105	104	1		
Toluene-d8 (S)	%	102	101	.5		

QUALITY CONTROL DATA

Project: CRC City of Rochester
Pace Project No.: 10167933

QC Batch: MSV/17811 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV 465 W
Associated Lab Samples: 10167933007, 10167933008, 10167933009, 10167933010, 10167933011, 10167933012, 10167933013, 10167933014, 10167933015, 10167933016

METHOD BLANK: 1044590 Matrix: Water
Associated Lab Samples: 10167933007, 10167933008, 10167933009, 10167933010, 10167933011, 10167933012, 10167933013, 10167933014, 10167933015, 10167933016

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	1.0	08/30/11 21:13	
1,1,1-Trichloroethane	ug/L	ND	1.0	08/30/11 21:13	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	08/30/11 21:13	
1,1,2-Trichloroethane	ug/L	ND	1.0	08/30/11 21:13	
1,1,2-Trichlorotrifluoroethane	ug/L	ND	1.0	08/30/11 21:13	
1,1-Dichloroethane	ug/L	ND	1.0	08/30/11 21:13	
1,1-Dichloroethene	ug/L	ND	1.0	08/30/11 21:13	
1,1-Dichloropropene	ug/L	ND	1.0	08/30/11 21:13	
1,2,3-Trichlorobenzene	ug/L	ND	1.0	08/30/11 21:13	
1,2,3-Trichloropropane	ug/L	ND	4.0	08/30/11 21:13	
1,2,4-Trichlorobenzene	ug/L	ND	1.0	08/30/11 21:13	
1,2,4-Trimethylbenzene	ug/L	ND	1.0	08/30/11 21:13	
1,2-Dibromo-3-chloropropane	ug/L	ND	4.0	08/30/11 21:13	
1,2-Dibromoethane (EDB)	ug/L	ND	1.0	08/30/11 21:13	
1,2-Dichlorobenzene	ug/L	ND	1.0	08/30/11 21:13	
1,2-Dichloroethane	ug/L	ND	1.0	08/30/11 21:13	
1,2-Dichloropropane	ug/L	ND	4.0	08/30/11 21:13	
1,3,5-Trimethylbenzene	ug/L	ND	1.0	08/30/11 21:13	
1,3-Dichlorobenzene	ug/L	ND	1.0	08/30/11 21:13	
1,3-Dichloropropane	ug/L	ND	1.0	08/30/11 21:13	
1,4-Dichlorobenzene	ug/L	ND	1.0	08/30/11 21:13	
2,2-Dichloropropane	ug/L	ND	4.0	08/30/11 21:13	
2-Butanone (MEK)	ug/L	ND	4.0	08/30/11 21:13	
2-Chlorotoluene	ug/L	ND	1.0	08/30/11 21:13	
4-Chlorotoluene	ug/L	ND	1.0	08/30/11 21:13	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	4.0	08/30/11 21:13	
Acetone	ug/L	ND	25.0	08/30/11 21:13	CL
Allyl chloride	ug/L	ND	4.0	08/30/11 21:13	
Benzene	ug/L	ND	1.0	08/30/11 21:13	
Bromobenzene	ug/L	ND	1.0	08/30/11 21:13	
Bromochloromethane	ug/L	ND	1.0	08/30/11 21:13	
Bromodichloromethane	ug/L	ND	1.0	08/30/11 21:13	
Bromoform	ug/L	ND	4.0	08/30/11 21:13	
Bromomethane	ug/L	ND	4.0	08/30/11 21:13	
Carbon tetrachloride	ug/L	ND	1.0	08/30/11 21:13	
Chlorobenzene	ug/L	ND	1.0	08/30/11 21:13	
Chloroethane	ug/L	ND	1.0	08/30/11 21:13	
Chloroform	ug/L	ND	1.0	08/30/11 21:13	
Chloromethane	ug/L	ND	4.0	08/30/11 21:13	
cis-1,2-Dichloroethene	ug/L	ND	1.0	08/30/11 21:13	
cis-1,3-Dichloropropene	ug/L	ND	4.0	08/30/11 21:13	

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QUALITY CONTROL DATA

Project: CRC City of Rochester
Pace Project No.: 10167933

METHOD BLANK: 1044590

Matrix: Water

Associated Lab Samples: 10167933007, 10167933008, 10167933009, 10167933010, 10167933011, 10167933012, 10167933013, 10167933014, 10167933015, 10167933016

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Dibromochloromethane	ug/L	ND	1.0	08/30/11 21:13	
Dibromomethane	ug/L	ND	4.0	08/30/11 21:13	
Dichlorodifluoromethane	ug/L	ND	1.0	08/30/11 21:13	
Dichlorofluoromethane	ug/L	ND	1.0	08/30/11 21:13	
Diethyl ether (Ethyl ether)	ug/L	ND	4.0	08/30/11 21:13	
Ethylbenzene	ug/L	ND	1.0	08/30/11 21:13	
Hexachloro-1,3-butadiene	ug/L	ND	5.0	08/30/11 21:13	
Isopropylbenzene (Cumene)	ug/L	ND	1.0	08/30/11 21:13	
m&p-Xylene	ug/L	ND	2.0	08/30/11 21:13	
Methyl-tert-butyl ether	ug/L	ND	1.0	08/30/11 21:13	
Methylene Chloride	ug/L	ND	4.0	08/30/11 21:13	
n-Butylbenzene	ug/L	ND	1.0	08/30/11 21:13	
n-Propylbenzene	ug/L	ND	1.0	08/30/11 21:13	
Naphthalene	ug/L	ND	4.0	08/30/11 21:13	
o-Xylene	ug/L	ND	1.0	08/30/11 21:13	
p-Isopropyltoluene	ug/L	ND	1.0	08/30/11 21:13	
sec-Butylbenzene	ug/L	ND	1.0	08/30/11 21:13	
Styrene	ug/L	ND	1.0	08/30/11 21:13	
tert-Butylbenzene	ug/L	ND	1.0	08/30/11 21:13	
Tetrachloroethene	ug/L	ND	1.0	08/30/11 21:13	
Tetrahydrofuran	ug/L	ND	10.0	08/30/11 21:13	
Toluene	ug/L	ND	1.0	08/30/11 21:13	
trans-1,2-Dichloroethene	ug/L	ND	4.0	08/30/11 21:13	
trans-1,3-Dichloropropene	ug/L	ND	4.0	08/30/11 21:13	
Trichloroethene	ug/L	ND	1.0	08/30/11 21:13	
Trichlorofluoromethane	ug/L	ND	1.0	08/30/11 21:13	
Vinyl chloride	ug/L	ND	0.40	08/30/11 21:13	
Xylene (Total)	ug/L	ND	3.0	08/30/11 21:13	
1,2-Dichloroethane-d4 (S)	%	104	75-125	08/30/11 21:13	
4-Bromofluorobenzene (S)	%	99	75-125	08/30/11 21:13	
Dibromofluoromethane (S)	%	106	75-125	08/30/11 21:13	
Toluene-d8 (S)	%	97	75-125	08/30/11 21:13	

LABORATORY CONTROL SAMPLE: 1044591

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	53.4	107	75-125	
1,1,1-Trichloroethane	ug/L	50	58.2	116	75-125	
1,1,2,2-Tetrachloroethane	ug/L	50	50.3	101	75-125	
1,1,2-Trichloroethane	ug/L	50	52.5	105	75-125	
1,1,2-Trichlorotrifluoroethane	ug/L	50	47.4	95	75-126	
1,1-Dichloroethane	ug/L	50	57.5	115	75-125	
1,1-Dichloroethene	ug/L	50	54.6	109	75-125	
1,1-Dichloropropene	ug/L	50	56.7	113	75-125	

QUALITY CONTROL DATA

Project: CRC City of Rochester

Pace Project No.: 10167933

LABORATORY CONTROL SAMPLE: 1044591

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,3-Trichlorobenzene	ug/L	50	51.1	102	68-128	
1,2,3-Trichloropropane	ug/L	50	50.6	101	75-125	
1,2,4-Trichlorobenzene	ug/L	50	50.9	102	75-125	
1,2,4-Trimethylbenzene	ug/L	50	51.7	103	75-125	
1,2-Dibromo-3-chloropropane	ug/L	50	47.0	94	68-125	
1,2-Dibromoethane (EDB)	ug/L	50	47.4	95	75-125	
1,2-Dichlorobenzene	ug/L	50	51.1	102	75-125	
1,2-Dichloroethane	ug/L	50	58.2	116	71-125	
1,2-Dichloropropane	ug/L	50	55.1	110	75-125	
1,3,5-Trimethylbenzene	ug/L	50	51.3	103	75-125	
1,3-Dichlorobenzene	ug/L	50	51.3	103	75-125	
1,3-Dichloropropane	ug/L	50	51.4	103	75-125	
1,4-Dichlorobenzene	ug/L	50	50.8	102	75-125	
2,2-Dichloropropane	ug/L	50	54.9	110	69-132	
2-Butanone (MEK)	ug/L	50	42.8	86	56-137	
2-Chlorotoluene	ug/L	50	50.5	101	75-125	
4-Chlorotoluene	ug/L	50	51.2	102	75-125	
4-Methyl-2-pentanone (MIBK)	ug/L	50	50.7	101	67-125	
Acetone	ug/L	125	73.0	58	41-130	CL
Allyl chloride	ug/L	50	57.5	115	59-130	
Benzene	ug/L	50	57.7	115	75-125	
Bromobenzene	ug/L	50	50.6	101	75-125	
Bromochloromethane	ug/L	50	56.3	113	75-125	
Bromodichloromethane	ug/L	50	54.7	109	75-125	
Bromoform	ug/L	50	51.4	103	75-125	
Bromomethane	ug/L	50	49.0	98	45-138	
Carbon tetrachloride	ug/L	50	56.5	113	75-125	
Chlorobenzene	ug/L	50	53.0	106	75-125	
Chloroethane	ug/L	50	51.0	102	72-125	
Chloroform	ug/L	50	57.3	115	75-125	
Chloromethane	ug/L	50	49.4	99	65-125	
cis-1,2-Dichloroethene	ug/L	50	53.3	107	75-125	
cis-1,3-Dichloropropene	ug/L	50	53.0	106	75-125	
Dibromochloromethane	ug/L	50	53.1	106	75-125	
Dibromomethane	ug/L	50	51.5	103	75-125	
Dichlorodifluoromethane	ug/L	50	42.9	86	55-143	
Dichlorofluoromethane	ug/L	50	56.5	113	75-125	
Diethyl ether (Ethyl ether)	ug/L	50	53.8	108	75-125	
Ethylbenzene	ug/L	50	52.3	105	75-125	
Hexachloro-1,3-butadiene	ug/L	25	24.3	97	69-132	
Isopropylbenzene (Cumene)	ug/L	50	53.8	108	75-125	
m&p-Xylene	ug/L	100	106	106	75-125	
Methyl-tert-butyl ether	ug/L	50	56.2	112	75-125	
Methylene Chloride	ug/L	50	49.8	100	75-125	
n-Butylbenzene	ug/L	50	51.8	104	75-125	
n-Propylbenzene	ug/L	50	51.5	103	75-125	
Naphthalene	ug/L	50	50.4	101	74-129	
o-Xylene	ug/L	50	53.4	107	75-125	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: CRC City of Rochester
Pace Project No.: 10167933

LABORATORY CONTROL SAMPLE: 1044591

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
p-Isopropyltoluene	ug/L	50	52.0	104	75-125	
sec-Butylbenzene	ug/L	50	52.0	104	75-125	
Styrene	ug/L	50	54.7	109	75-125	
tert-Butylbenzene	ug/L	50	51.5	103	75-125	
Tetrachloroethene	ug/L	50	52.8	106	75-125	
Tetrahydrofuran	ug/L	500	571	114	64-128	
Toluene	ug/L	50	52.1	104	75-125	
trans-1,2-Dichloroethene	ug/L	50	56.5	113	75-125	
trans-1,3-Dichloropropene	ug/L	50	50.7	101	75-125	
Trichloroethene	ug/L	50	56.0	112	75-125	
Trichlorofluoromethane	ug/L	50	49.4	99	75-125	
Vinyl chloride	ug/L	50	53.1	106	74-125	
Xylene (Total)	ug/L	150	160	106	75-125	
1,2-Dichloroethane-d4 (S)	%			100	75-125	
4-Bromofluorobenzene (S)	%			98	75-125	
Dibromofluoromethane (S)	%			104	75-125	
Toluene-d8 (S)	%			96	75-125	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1044592 1044593

Parameter	10167997001		MS	MSD	MS		MSD		% Rec	Max		Qual
	Units	Result	Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec	Limits	RPD	RPD	
1,1,1,2-Tetrachloroethane	ug/L	ND	50	50	51.5	51.3	103	103	75-125	.4	30	
1,1,1-Trichloroethane	ug/L	ND	50	50	59.8	57.8	120	116	75-128	3	30	
1,1,2,2-Tetrachloroethane	ug/L	ND	50	50	48.0	46.9	96	94	75-125	2	30	
1,1,2-Trichloroethane	ug/L	ND	50	50	50.9	49.3	102	99	75-125	3	30	
1,1,2-Trichlorotrifluoroethane	ug/L	ND	50	50	66.0	64.7	132	129	75-150	2	30	
1,1-Dichloroethane	ug/L	ND	50	50	58.0	56.9	116	114	75-125	2	30	
1,1-Dichloroethene	ug/L	ND	50	50	60.0	58.8	120	118	75-134	2	30	
1,1-Dichloropropene	ug/L	ND	50	50	60.7	59.7	121	119	75-131	2	30	
1,2,3-Trichlorobenzene	ug/L	ND	50	50	49.4	48.9	99	98	67-145	1	30	
1,2,3-Trichloropropane	ug/L	ND	50	50	47.4	46.7	95	93	75-125	1	30	
1,2,4-Trichlorobenzene	ug/L	ND	50	50	50.0	49.1	100	98	74-138	2	30	
1,2,4-Trimethylbenzene	ug/L	ND	50	50	51.7	50.9	103	102	75-126	1	30	
1,2-Dibromo-3-chloropropane	ug/L	ND	50	50	46.3	44.5	93	89	68-129	4	30	
1,2-Dibromoethane (EDB)	ug/L	ND	50	50	46.5	46.3	93	93	75-125	.4	30	
1,2-Dichlorobenzene	ug/L	ND	50	50	50.3	49.4	101	99	75-125	2	30	
1,2-Dichloroethane	ug/L	ND	50	50	56.4	55.4	113	111	69-129	2	30	
1,2-Dichloropropane	ug/L	ND	50	50	54.6	53.2	109	106	75-125	3	30	
1,3,5-Trimethylbenzene	ug/L	ND	50	50	51.8	51.7	104	103	75-125	.2	30	
1,3-Dichlorobenzene	ug/L	ND	50	50	50.5	50.1	101	100	75-125	.8	30	
1,3-Dichloropropane	ug/L	ND	50	50	50.8	49.8	102	100	75-125	2	30	
1,4-Dichlorobenzene	ug/L	ND	50	50	49.2	49.6	98	99	75-125	.8	30	
2,2-Dichloropropane	ug/L	ND	50	50	57.6	56.7	115	113	69-141	2	30	
2-Butanone (MEK)	ug/L	ND	50	50	40.3	39.6	81	79	42-137	2	30	
2-Chlorotoluene	ug/L	ND	50	50	50.9	50.0	102	100	68-147	2	30	
4-Chlorotoluene	ug/L	ND	50	50	50.7	50.1	101	100	75-130	1	30	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: CRC City of Rochester
Pace Project No.: 10167933

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1044592 1044593												
Parameter	Units	10167997001 Result	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	Max RPD	RPD	Qual
			Spike Conc.	Spike Conc.	MS Result	MSD Result						
4-Methyl-2-pentanone (MIBK)	ug/L	ND	50	50	48.7	46.9	97	94	57-126	4	30	
Acetone	ug/L	ND	125	125	69.4	66.7	56	53	34-130	4	30	CL
Allyl chloride	ug/L	ND	50	50	59.8	58.4	120	117	53-140	2	30	
Benzene	ug/L	ND	50	50	58.4	56.8	117	114	73-136	3	30	
Bromobenzene	ug/L	ND	50	50	50.3	50.4	101	101	75-125	.2	30	
Bromochloromethane	ug/L	ND	50	50	54.4	54.0	109	108	75-125	.7	30	
Bromodichloromethane	ug/L	ND	50	50	53.5	52.4	107	105	75-125	2	30	
Bromoform	ug/L	ND	50	50	48.3	48.0	97	96	75-125	.8	30	
Bromomethane	ug/L	ND	50	50	50.2	51.5	100	103	41-150	2	30	
Carbon tetrachloride	ug/L	ND	50	50	61.2	60.6	122	121	75-135	.9	30	
Chlorobenzene	ug/L	ND	50	50	52.8	51.7	106	103	75-125	2	30	
Chloroethane	ug/L	ND	50	50	53.0	54.1	106	108	71-139	2	30	
Chloroform	ug/L	ND	50	50	57.5	56.3	115	113	75-125	2	30	
Chloromethane	ug/L	ND	50	50	51.6	53.5	103	106	65-144	4	30	
cis-1,2-Dichloroethene	ug/L	ND	50	50	53.9	53.2	108	106	75-125	1	30	
cis-1,3-Dichloropropene	ug/L	ND	50	50	51.2	50.2	102	100	75-125	2	30	
Dibromochloromethane	ug/L	ND	50	50	51.3	50.6	103	101	75-125	2	30	
Dibromomethane	ug/L	ND	50	50	50.8	49.6	102	99	75-125	2	30	
Dichlorodifluoromethane	ug/L	ND	50	50	61.6	62.1	123	124	55-150	.8	30	
Dichlorofluoromethane	ug/L	ND	50	50	57.8	56.4	116	113	75-129	2	30	
Diethyl ether (Ethyl ether)	ug/L	ND	50	50	52.1	52.2	104	104	75-125	.2	30	
Ethylbenzene	ug/L	ND	50	50	52.8	52.2	106	104	75-137	1	30	
Hexachloro-1,3-butadiene	ug/L	ND	25	25	25.9	24.7	104	99	69-150	5	30	
Isopropylbenzene (Cumene)	ug/L	ND	50	50	54.7	53.8	109	108	75-125	2	30	
m&p-Xylene	ug/L	ND	100	100	107	104	107	104	71-133	2	30	
Methyl-tert-butyl ether	ug/L	ND	50	50	55.1	53.8	110	108	75-125	2	30	
Methylene Chloride	ug/L	ND	50	50	48.3	47.4	97	95	75-125	2	30	
n-Butylbenzene	ug/L	ND	50	50	52.8	51.7	106	103	75-141	2	30	
n-Propylbenzene	ug/L	ND	50	50	52.9	52.1	106	104	75-132	2	30	
Naphthalene	ug/L	ND	50	50	49.2	48.3	98	97	74-138	2	30	
o-Xylene	ug/L	ND	50	50	53.0	52.1	106	104	75-128	2	30	
p-Isopropyltoluene	ug/L	ND	50	50	52.8	52.1	106	104	75-133	1	30	
sec-Butylbenzene	ug/L	ND	50	50	53.6	53.0	107	106	75-136	1	30	
Styrene	ug/L	ND	50	50	52.7	51.3	105	103	72-125	3	30	
tert-Butylbenzene	ug/L	ND	50	50	52.1	52.6	104	105	75-132	.9	30	
Tetrachloroethene	ug/L	ND	50	50	55.2	54.2	110	108	75-126	2	30	
Tetrahydrofuran	ug/L	ND	500	500	542	527	108	105	64-128	3	30	
Toluene	ug/L	ND	50	50	52.3	51.7	105	103	75-125	1	30	
trans-1,2-Dichloroethene	ug/L	ND	50	50	58.6	56.7	117	113	75-127	3	30	
trans-1,3-Dichloropropene	ug/L	ND	50	50	49.0	48.1	98	96	75-125	2	30	
Trichloroethene	ug/L	ND	50	50	56.9	55.5	114	111	75-125	2	30	
Trichlorofluoromethane	ug/L	ND	50	50	64.8	65.4	130	131	75-150	1	30	
Vinyl chloride	ug/L	ND	50	50	58.5	59.2	117	118	74-142	1	30	
Xylene (Total)	ug/L	ND	150	150	160	157	107	104	73-132	2	30	
1,2-Dichloroethane-d4 (S)	%						99	99	75-125			
4-Bromofluorobenzene (S)	%						98	99	75-125			
Dibromofluoromethane (S)	%						104	104	75-125			

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: CRC City of Rochester

Pace Project No.: 10167933

MATRIX SPIKE & MATRIX SPIKE DUPLICATE:		1044592		1044593									
Parameter	Units	10167997001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
Toluene-d8 (S)	%						96	96	75-125				

QUALITY CONTROL DATA

Project: CRC City of Rochester
Pace Project No.: 10167933

QC Batch: MSV/17815 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV 465 W
Associated Lab Samples: 10167933003, 10167933005, 10167933006

METHOD BLANK: 1045324 Matrix: Water
Associated Lab Samples: 10167933003, 10167933005, 10167933006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	1.0	08/31/11 12:12	
1,1,1-Trichloroethane	ug/L	ND	1.0	08/31/11 12:12	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	08/31/11 12:12	
1,1,2-Trichloroethane	ug/L	ND	1.0	08/31/11 12:12	
1,1,2-Trichlorotrifluoroethane	ug/L	ND	1.0	08/31/11 12:12	
1,1-Dichloroethane	ug/L	ND	1.0	08/31/11 12:12	
1,1-Dichloroethene	ug/L	ND	1.0	08/31/11 12:12	
1,1-Dichloropropene	ug/L	ND	1.0	08/31/11 12:12	
1,2,3-Trichlorobenzene	ug/L	ND	1.0	08/31/11 12:12	
1,2,3-Trichloropropane	ug/L	ND	4.0	08/31/11 12:12	
1,2,4-Trichlorobenzene	ug/L	ND	1.0	08/31/11 12:12	
1,2,4-Trimethylbenzene	ug/L	ND	1.0	08/31/11 12:12	
1,2-Dibromo-3-chloropropane	ug/L	ND	4.0	08/31/11 12:12	
1,2-Dibromoethane (EDB)	ug/L	ND	1.0	08/31/11 12:12	
1,2-Dichlorobenzene	ug/L	ND	1.0	08/31/11 12:12	
1,2-Dichloroethane	ug/L	ND	1.0	08/31/11 12:12	
1,2-Dichloropropane	ug/L	ND	4.0	08/31/11 12:12	
1,3,5-Trimethylbenzene	ug/L	ND	1.0	08/31/11 12:12	
1,3-Dichlorobenzene	ug/L	ND	1.0	08/31/11 12:12	
1,3-Dichloropropane	ug/L	ND	1.0	08/31/11 12:12	
1,4-Dichlorobenzene	ug/L	ND	1.0	08/31/11 12:12	
2,2-Dichloropropane	ug/L	ND	4.0	08/31/11 12:12	
2-Butanone (MEK)	ug/L	ND	4.0	08/31/11 12:12	
2-Chlorotoluene	ug/L	ND	1.0	08/31/11 12:12	
4-Chlorotoluene	ug/L	ND	1.0	08/31/11 12:12	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	4.0	08/31/11 12:12	
Acetone	ug/L	ND	25.0	08/31/11 12:12	CL
Allyl chloride	ug/L	ND	4.0	08/31/11 12:12	
Benzene	ug/L	ND	1.0	08/31/11 12:12	
Bromobenzene	ug/L	ND	1.0	08/31/11 12:12	
Bromochloromethane	ug/L	ND	1.0	08/31/11 12:12	
Bromodichloromethane	ug/L	ND	1.0	08/31/11 12:12	
Bromoform	ug/L	ND	4.0	08/31/11 12:12	
Bromomethane	ug/L	ND	4.0	08/31/11 12:12	
Carbon tetrachloride	ug/L	ND	1.0	08/31/11 12:12	
Chlorobenzene	ug/L	ND	1.0	08/31/11 12:12	
Chloroethane	ug/L	ND	1.0	08/31/11 12:12	
Chloroform	ug/L	ND	1.0	08/31/11 12:12	
Chloromethane	ug/L	ND	4.0	08/31/11 12:12	
cis-1,2-Dichloroethene	ug/L	ND	1.0	08/31/11 12:12	
cis-1,3-Dichloropropene	ug/L	ND	4.0	08/31/11 12:12	
Dibromochloromethane	ug/L	ND	1.0	08/31/11 12:12	
Dibromomethane	ug/L	ND	4.0	08/31/11 12:12	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: CRC City of Rochester
Pace Project No.: 10167933

METHOD BLANK: 1045324 Matrix: Water

Associated Lab Samples: 10167933003, 10167933005, 10167933006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Dichlorodifluoromethane	ug/L	ND	1.0	08/31/11 12:12	
Dichlorofluoromethane	ug/L	ND	1.0	08/31/11 12:12	
Diethyl ether (Ethyl ether)	ug/L	ND	4.0	08/31/11 12:12	
Ethylbenzene	ug/L	ND	1.0	08/31/11 12:12	
Hexachloro-1,3-butadiene	ug/L	ND	5.0	08/31/11 12:12	
Isopropylbenzene (Cumene)	ug/L	ND	1.0	08/31/11 12:12	
m&p-Xylene	ug/L	ND	2.0	08/31/11 12:12	
Methyl-tert-butyl ether	ug/L	ND	1.0	08/31/11 12:12	
Methylene Chloride	ug/L	ND	4.0	08/31/11 12:12	
n-Butylbenzene	ug/L	ND	1.0	08/31/11 12:12	
n-Propylbenzene	ug/L	ND	1.0	08/31/11 12:12	
Naphthalene	ug/L	ND	4.0	08/31/11 12:12	
o-Xylene	ug/L	ND	1.0	08/31/11 12:12	
p-Isopropyltoluene	ug/L	ND	1.0	08/31/11 12:12	
sec-Butylbenzene	ug/L	ND	1.0	08/31/11 12:12	
Styrene	ug/L	ND	1.0	08/31/11 12:12	
tert-Butylbenzene	ug/L	ND	1.0	08/31/11 12:12	
Tetrachloroethene	ug/L	ND	1.0	08/31/11 12:12	
Tetrahydrofuran	ug/L	ND	10.0	08/31/11 12:12	
Toluene	ug/L	ND	1.0	08/31/11 12:12	
trans-1,2-Dichloroethene	ug/L	ND	4.0	08/31/11 12:12	
trans-1,3-Dichloropropene	ug/L	ND	4.0	08/31/11 12:12	
Trichloroethene	ug/L	ND	1.0	08/31/11 12:12	
Trichlorofluoromethane	ug/L	ND	1.0	08/31/11 12:12	
Vinyl chloride	ug/L	ND	0.40	08/31/11 12:12	
Xylene (Total)	ug/L	ND	3.0	08/31/11 12:12	
1,2-Dichloroethane-d4 (S)	%	104	75-125	08/31/11 12:12	
4-Bromofluorobenzene (S)	%	99	75-125	08/31/11 12:12	
Dibromofluoromethane (S)	%	107	75-125	08/31/11 12:12	
Toluene-d8 (S)	%	97	75-125	08/31/11 12:12	

LABORATORY CONTROL SAMPLE: 1045325

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	51.5	103	75-125	
1,1,1-Trichloroethane	ug/L	50	53.3	107	75-125	
1,1,2,2-Tetrachloroethane	ug/L	50	48.9	98	75-125	
1,1,2-Trichloroethane	ug/L	50	52.1	104	75-125	
1,1,2-Trichlorotrifluoroethane	ug/L	50	45.2	90	75-126	
1,1-Dichloroethane	ug/L	50	54.5	109	75-125	
1,1-Dichloroethene	ug/L	50	51.6	103	75-125	
1,1-Dichloropropene	ug/L	50	52.5	105	75-125	
1,2,3-Trichlorobenzene	ug/L	50	48.7	97	68-128	
1,2,3-Trichloropropane	ug/L	50	48.2	96	75-125	
1,2,4-Trichlorobenzene	ug/L	50	48.9	98	75-125	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: CRC City of Rochester

Pace Project No.: 10167933

LABORATORY CONTROL SAMPLE: 1045325

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,4-Trimethylbenzene	ug/L	50	48.7	97	75-125	
1,2-Dibromo-3-chloropropane	ug/L	50	45.9	92	68-125	
1,2-Dibromoethane (EDB)	ug/L	50	48.3	97	75-125	
1,2-Dichlorobenzene	ug/L	50	49.3	99	75-125	
1,2-Dichloroethane	ug/L	50	57.6	115	71-125	
1,2-Dichloropropane	ug/L	50	53.5	107	75-125	
1,3,5-Trimethylbenzene	ug/L	50	48.2	96	75-125	
1,3-Dichlorobenzene	ug/L	50	48.6	97	75-125	
1,3-Dichloropropane	ug/L	50	51.6	103	75-125	
1,4-Dichlorobenzene	ug/L	50	48.5	97	75-125	
2,2-Dichloropropane	ug/L	50	54.7	109	69-132	
2-Butanone (MEK)	ug/L	50	41.5	83	56-137	
2-Chlorotoluene	ug/L	50	47.7	95	75-125	
4-Chlorotoluene	ug/L	50	47.2	94	75-125	
4-Methyl-2-pentanone (MIBK)	ug/L	50	48.6	97	67-125	
Acetone	ug/L	125	69.9	56	41-130	CL
Allyl chloride	ug/L	50	56.2	112	59-130	
Benzene	ug/L	50	54.5	109	75-125	
Bromobenzene	ug/L	50	49.5	99	75-125	
Bromochloromethane	ug/L	50	56.0	112	75-125	
Bromodichloromethane	ug/L	50	54.3	109	75-125	
Bromoform	ug/L	50	51.7	103	75-125	
Bromomethane	ug/L	50	44.0	88	45-138	
Carbon tetrachloride	ug/L	50	52.9	106	75-125	
Chlorobenzene	ug/L	50	50.8	102	75-125	
Chloroethane	ug/L	50	47.9	96	72-125	
Chloroform	ug/L	50	55.2	110	75-125	
Chloromethane	ug/L	50	45.0	90	65-125	
cis-1,2-Dichloroethene	ug/L	50	51.6	103	75-125	
cis-1,3-Dichloropropene	ug/L	50	52.3	105	75-125	
Dibromochloromethane	ug/L	50	53.0	106	75-125	
Dibromomethane	ug/L	50	51.3	103	75-125	
Dichlorodifluoromethane	ug/L	50	41.4	83	55-143	
Dichlorofluoromethane	ug/L	50	53.6	107	75-125	
Diethyl ether (Ethyl ether)	ug/L	50	52.3	105	75-125	
Ethylbenzene	ug/L	50	49.2	98	75-125	
Hexachloro-1,3-butadiene	ug/L	25	22.2	89	69-132	
Isopropylbenzene (Cumene)	ug/L	50	49.6	99	75-125	
m&p-Xylene	ug/L	100	99.6	100	75-125	
Methyl-tert-butyl ether	ug/L	50	56.2	112	75-125	
Methylene Chloride	ug/L	50	48.3	97	75-125	
n-Butylbenzene	ug/L	50	47.0	94	75-125	
n-Propylbenzene	ug/L	50	47.9	96	75-125	
Naphthalene	ug/L	50	47.9	96	74-129	
o-Xylene	ug/L	50	50.7	101	75-125	
p-Isopropyltoluene	ug/L	50	47.7	95	75-125	
sec-Butylbenzene	ug/L	50	47.5	95	75-125	
Styrene	ug/L	50	50.6	101	75-125	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: CRC City of Rochester
Pace Project No.: 10167933

LABORATORY CONTROL SAMPLE: 1045325

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
tert-Butylbenzene	ug/L	50	47.6	95	75-125	
Tetrachloroethene	ug/L	50	49.5	99	75-125	
Tetrahydrofuran	ug/L	500	536	107	64-128	
Toluene	ug/L	50	49.4	99	75-125	
trans-1,2-Dichloroethene	ug/L	50	53.3	107	75-125	
trans-1,3-Dichloropropene	ug/L	50	50.8	102	75-125	
Trichloroethene	ug/L	50	51.8	104	75-125	
Trichlorofluoromethane	ug/L	50	47.0	94	75-125	
Vinyl chloride	ug/L	50	49.6	99	74-125	
Xylene (Total)	ug/L	150	150	100	75-125	
1,2-Dichloroethane-d4 (S)	%			100	75-125	
4-Bromofluorobenzene (S)	%			97	75-125	
Dibromofluoromethane (S)	%			104	75-125	
Toluene-d8 (S)	%			97	75-125	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1046865 1046866

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		10167933006 Result	Spike Conc.	Spike Conc.	MSD Result								
1,1,1,2-Tetrachloroethane	ug/L	ND	250	250	258	265	103	106	75-125		3	30	
1,1,1-Trichloroethane	ug/L	ND	250	250	275	289	110	116	75-128		5	30	
1,1,2,2-Tetrachloroethane	ug/L	ND	250	250	250	249	100	100	75-125		.2	30	
1,1,2-Trichloroethane	ug/L	ND	250	250	255	263	102	105	75-125		3	30	
1,1,2-Trichlorotrifluoroethane	ug/L	93.8	250	250	363	382	108	115	75-150		5	30	
1,1-Dichloroethane	ug/L	ND	250	250	274	286	110	114	75-125		4	30	
1,1-Dichloroethene	ug/L	ND	250	250	269	284	108	114	75-134		5	30	
1,1-Dichloropropene	ug/L	ND	250	250	272	287	109	115	75-131		5	30	
1,2,3-Trichlorobenzene	ug/L	ND	250	250	249	254	100	101	67-145		2	30	
1,2,3-Trichloropropane	ug/L	ND	250	250	255	252	102	101	75-125		.9	30	
1,2,4-Trichlorobenzene	ug/L	ND	250	250	250	257	100	103	74-138		3	30	
1,2,4-Trimethylbenzene	ug/L	ND	250	250	249	257	100	103	75-126		3	30	
1,2-Dibromo-3-chloropropane	ug/L	ND	250	250	238	236	95	94	68-129		.7	30	
1,2-Dibromoethane (EDB)	ug/L	ND	250	250	240	242	96	97	75-125		1	30	
1,2-Dichlorobenzene	ug/L	ND	250	250	250	254	100	102	75-125		1	30	
1,2-Dichloroethane	ug/L	ND	250	250	283	291	113	117	69-129		3	30	
1,2-Dichloropropane	ug/L	ND	250	250	262	272	105	109	75-125		4	30	
1,3,5-Trimethylbenzene	ug/L	ND	250	250	246	256	99	102	75-125		4	30	
1,3-Dichlorobenzene	ug/L	ND	250	250	245	255	98	102	75-125		4	30	
1,3-Dichloropropane	ug/L	ND	250	250	252	254	101	102	75-125		.7	30	
1,4-Dichlorobenzene	ug/L	ND	250	250	245	251	98	100	75-125		2	30	
2,2-Dichloropropane	ug/L	ND	250	250	286	300	114	120	69-141		5	30	
2-Butanone (MEK)	ug/L	ND	250	250	210	209	84	84	42-137		.3	30	
2-Chlorotoluene	ug/L	ND	250	250	244	251	97	101	68-147		3	30	
4-Chlorotoluene	ug/L	ND	250	250	249	256	100	102	75-130		3	30	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	250	250	250	255	100	102	57-126		2	30	
Acetone	ug/L	ND	625	625	345	345	55	55	34-130		.2	30	CL
Allyl chloride	ug/L	ND	250	250	282	293	113	117	53-140		4	30	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: CRC City of Rochester

Pace Project No.: 10167933

MATRIX SPIKE & MATRIX SPIKE DUPLICATE:		1046865		1046866									
Parameter	Units	10167933006 Result	MS	MSD	MS	MSD	MS	MSD	% Rec	Max	RPD	RPD	Qual
			Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec	Limits				
Benzene	ug/L	ND	250	250	272	285	109	114	73-136	5	30		
Bromobenzene	ug/L	ND	250	250	250	255	100	102	75-125	2	30		
Bromochloromethane	ug/L	ND	250	250	273	284	109	114	75-125	4	30		
Bromodichloromethane	ug/L	ND	250	250	267	274	107	110	75-125	3	30		
Bromoform	ug/L	ND	250	250	255	261	102	105	75-125	2	30		
Bromomethane	ug/L	ND	250	250	217	241	87	96	41-150	11	30		
Carbon tetrachloride	ug/L	ND	250	250	277	291	111	116	75-135	5	30		
Chlorobenzene	ug/L	ND	250	250	249	262	100	105	75-125	5	30		
Chloroethane	ug/L	ND	250	250	241	251	96	100	71-139	4	30		
Chloroform	ug/L	ND	250	250	274	282	110	113	75-125	3	30		
Chloromethane	ug/L	ND	250	250	232	248	93	99	65-144	7	30		
cis-1,2-Dichloroethene	ug/L	ND	250	250	258	268	103	107	75-125	4	30		
cis-1,3-Dichloropropene	ug/L	ND	250	250	257	265	103	106	75-125	3	30		
Dibromochloromethane	ug/L	ND	250	250	260	269	104	108	75-125	3	30		
Dibromomethane	ug/L	ND	250	250	256	261	103	104	75-125	2	30		
Dichlorodifluoromethane	ug/L	ND	250	250	252	264	101	106	55-150	5	30		
Dichlorofluoromethane	ug/L	ND	250	250	270	280	108	112	75-129	3	30		
Diethyl ether (Ethyl ether)	ug/L	ND	250	250	276	273	110	109	75-125	.8	30		
Ethylbenzene	ug/L	ND	250	250	248	260	99	104	75-137	4	30		
Hexachloro-1,3-butadiene	ug/L	ND	125	125	119	127	95	101	69-150	6	30		
Isopropylbenzene (Cumene)	ug/L	ND	250	250	250	268	100	107	75-125	7	30		
m&p-Xylene	ug/L	ND	500	500	503	531	101	106	71-133	5	30		
Methyl-tert-butyl ether	ug/L	ND	250	250	279	284	112	114	75-125	2	30		
Methylene Chloride	ug/L	ND	250	250	242	247	94	96	75-125	2	30		
n-Butylbenzene	ug/L	ND	250	250	246	258	99	103	75-141	5	30		
n-Propylbenzene	ug/L	ND	250	250	248	259	99	103	75-132	4	30		
Naphthalene	ug/L	ND	250	250	248	253	99	101	74-138	2	30		
o-Xylene	ug/L	ND	250	250	249	267	100	107	75-128	7	30		
p-Isopropyltoluene	ug/L	ND	250	250	249	258	99	103	75-133	4	30		
sec-Butylbenzene	ug/L	ND	250	250	245	257	98	103	75-136	5	30		
Styrene	ug/L	ND	250	250	258	270	103	108	72-125	4	30		
tert-Butylbenzene	ug/L	ND	250	250	244	256	98	102	75-132	4	30		
Tetrachloroethene	ug/L	771	250	250	962	1030	77	102	75-126	6	30		
Tetrahydrofuran	ug/L	ND	2500	2500	2760	2810	110	113	64-128	2	30		
Toluene	ug/L	ND	250	250	247	261	99	104	75-125	6	30		
trans-1,2-Dichloroethene	ug/L	ND	250	250	270	282	108	113	75-127	4	30		
trans-1,3-Dichloropropene	ug/L	ND	250	250	249	256	100	103	75-125	3	30		
Trichloroethene	ug/L	ND	250	250	266	280	106	112	75-125	5	30		
Trichlorofluoromethane	ug/L	ND	250	250	271	288	109	115	75-150	6	30		
Vinyl chloride	ug/L	ND	250	250	255	269	102	108	74-142	5	30		
Xylene (Total)	ug/L	ND	750	750	752	798	100	106	73-132	6	30		
1,2-Dichloroethane-d4 (S)	%						99	98	75-125				
4-Bromofluorobenzene (S)	%						99	98	75-125				
Dibromofluoromethane (S)	%						104	103	75-125				
Toluene-d8 (S)	%						95	96	75-125				

QUALIFIERS

Project: CRC City of Rochester

Pace Project No.: 10167933

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

- | | |
|----|--|
| CL | The continuing calibration for this compound is outside of Pace Analytical acceptance limits. The results may be biased low. |
| M1 | Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery. |

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: CRC City of Rochester

Pace Project No.: 10167933

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10167933001	MW-17	EPA 8260	MSV/17805		
10167933002	MW-18	EPA 8260	MSV/17805		
10167933003	DPE-1	EPA 8260	MSV/17815		
10167933004	DPE-2	EPA 8260	MSV/17805		
10167933005	DPE-3	EPA 8260	MSV/17815		
10167933006	DPE-4	EPA 8260	MSV/17815		
10167933007	DPE-5	EPA 8260	MSV/17811		
10167933008	DPE-6	EPA 8260	MSV/17811		
10167933009	DPE-7	EPA 8260	MSV/17811		
10167933010	DPE-8	EPA 8260	MSV/17811		
10167933011	MW-15	EPA 8260	MSV/17811		
10167933012	MW-16	EPA 8260	MSV/17811		
10167933013	MW-19	EPA 8260	MSV/17811		
10167933014	MW-20	EPA 8260	MSV/17811		
10167933015	MW-14	EPA 8260	MSV/17811		
10167933016	Trip Blank	EPA 8260	MSV/17811		



CHAIN-OF-CUSTODY / Analytical Request Document

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

10167933

Page: 2 of 2	
Section A Required Client Information: Company: Landmark Environmental Address: 2042 W. 98th Street Bloomington, MN 55431 Email To: jskramstad@landmarkenv.com Phone: 952-887-9601, Fax: 952-887-9605 ext. 205 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: Carolyne Trout Pace Profile #:	Section D Required Client Information SAMPLE ID One Character per box. (A-Z, 0-9 / -) Samples IDs MUST BE UNIQUE
Section E REGULATORY AGENCY <input type="checkbox"/> NPDES <input type="checkbox"/> GROUND WATER <input type="checkbox"/> DRINKING WATER <input type="checkbox"/> UST <input type="checkbox"/> RCRA <input type="checkbox"/> OTHER SITE <input type="checkbox"/> GA <input type="checkbox"/> IL <input type="checkbox"/> IN <input type="checkbox"/> MI <input type="checkbox"/> VC LOCATION <input type="checkbox"/> OH <input type="checkbox"/> SC <input type="checkbox"/> WI <input type="checkbox"/> OTHER	Section F Valid Matrix Codes MATRIX: DRINKING WATER, WASTE WATER, PRODUCT, SOURCE, WIRE, AIR, OTHER, TISSUE CODE: DW, WT, WW, P, SL, GL, WP, OT, TS
Section G Preservatives Unpreserved, H ₂ SO ₄ , HNO ₃ , HCl, NaOH, Na ₂ S ₂ O ₃ , Methanol, Other	Section H Filtered (Y/N) Requested Analysis: EPA 8260 VOCs Pace Project Number Lab I.D.: 10167933013, 014, 015
Section I COLLECTED MATRIX CODE, SAMPLE TYPE, G-RAB G-COMP, COMPOSITE START, COMPOSITE END, DATE, TIME, SAMPLE TEMP AT COLLECTION, # OF CONTAINERS	Section J RELINQUISHED BY / AFFILIATION DATE, TIME, ACCEPTED BY / AFFILIATION, DATE, TIME, SAMPLE CONDITIONS (Includes handwritten signatures and dates)
Section K ADDITIONAL COMMENTS (Includes handwritten signature: Eric Gabrielson 8/29/11)	



Document Name:
Sample Condition Upon Receipt Form

Document Number:
F-L-213 Rev.01

Revised Date: 02Jun2011
Page 1 of 1

Issuing Authority:
Pace Minnesota Quality Office

Sample Condition Upon Receipt

Client Name: Landmark

Project # 10167933

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 6.0
Temp should be above freezing to 6°C

Biological Tissue is Frozen: Yes No

Date and Initials of person examining contents: 8/29/11 SA

Comments:

Chain of Custody Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Chain of Custody Filled Out:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.
Chain of Custody Relinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.
Sampler Name & Signature on COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.
Samples Arrived within Hold Time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5.
Short Hold Time Analysis (<72hr):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	6.
Rush Turn Around Time Requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	7.
Sufficient Volume:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	8.
Correct Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.
-Pace Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Containers Intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	10.
Filtered volume received for Dissolved tests	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11.
Sample Labels match COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	12. TB not on the COC
-Includes date/time/ID/Analysis Matrix: <u>WT</u>		
All containers needing acid/base preservation have been checked. Noncompliance are noted in 13.	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	13. <input type="checkbox"/> HNO3 <input type="checkbox"/> H2SO4 <input type="checkbox"/> NaOH <input type="checkbox"/> HCl
All containers needing preservation are found to be in compliance with EPA recommendation.	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	Samp #
Exceptions: VOA, Coliform, TOC, Oil and Grease, WI-DRO (water)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Initial when completed <u>AW</u> Lot # of added preservative
Samples checked for dechlorination:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	14.
Headspace in VOA Vials (>6mm):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	15.
Trip Blank Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	16. 2 WT TB (2 projects)
Trip Blank Custody Seals Present	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Pace Trip Blank Lot # (if purchased):		

Client Notification/ Resolution:

Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: AW

Date: 8/29/11

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)

September 06, 2011

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

RE: Project: CRC City of Rochester
Pace Project No.: 10167932

Dear Mr. Skramstad:

Enclosed are the analytical results for sample(s) received by the laboratory on August 29, 2011. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards, where applicable, unless otherwise narrated in the body of the report.

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

Sincerely,



Carolynne Trout

carolynne.trout@pacelabs.com
Project Manager

Enclosures



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: CRC City of Rochester

Pace Project No.: 10167932

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

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: CRC City of Rochester

Pace Project No.: 10167932

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10167932001	AS-Influent	Water	08/28/11 12:00	08/29/11 13:56
10167932002	AS-Effluent	Water	08/28/11 12:00	08/29/11 13:56

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: CRC City of Rochester

Pace Project No.: 10167932

Lab ID	Sample ID	Method	Analysts	Analytes Reported
10167932001	AS-Influent	EPA 624	ECB	82
10167932002	AS-Effluent	EPA 624	ECB	82

REPORT OF LABORATORY ANALYSIS

ANALYTICAL RESULTS

Project: CRC City of Rochester

Pace Project No.: 10167932

Sample: AS-Influent	Lab ID: 10167932001	Collected: 08/28/11 12:00	Received: 08/29/11 13:56	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		09/02/11 12:01	67-64-1	
Acrolein	ND ug/L		10.0	1		09/02/11 12:01	107-02-8	
Acrylonitrile	ND ug/L		10.0	1		09/02/11 12:01	107-13-1	
Allyl chloride	ND ug/L		4.0	1		09/02/11 12:01	107-05-1	
Benzene	ND ug/L		1.0	1		09/02/11 12:01	71-43-2	
Bromobenzene	ND ug/L		1.0	1		09/02/11 12:01	108-86-1	
Bromochloromethane	ND ug/L		1.0	1		09/02/11 12:01	74-97-5	
Bromodichloromethane	ND ug/L		1.0	1		09/02/11 12:01	75-27-4	
Bromoform	ND ug/L		4.0	1		09/02/11 12:01	75-25-2	
Bromomethane	ND ug/L		4.0	1		09/02/11 12:01	74-83-9	
2-Butanone (MEK)	ND ug/L		4.0	1		09/02/11 12:01	78-93-3	
n-Butylbenzene	ND ug/L		1.0	1		09/02/11 12:01	104-51-8	
sec-Butylbenzene	ND ug/L		1.0	1		09/02/11 12:01	135-98-8	
tert-Butylbenzene	ND ug/L		1.0	1		09/02/11 12:01	98-06-6	
Carbon disulfide	ND ug/L		1.0	1		09/02/11 12:01	75-15-0	L2
Carbon tetrachloride	ND ug/L		1.0	1		09/02/11 12:01	56-23-5	
Chlorobenzene	ND ug/L		1.0	1		09/02/11 12:01	108-90-7	
Chloroethane	ND ug/L		1.0	1		09/02/11 12:01	75-00-3	
2-Chloroethylvinyl ether	ND ug/L		10.0	1		09/02/11 12:01	110-75-8	M1
Chloroform	ND ug/L		1.0	1		09/02/11 12:01	67-66-3	
Chloromethane	ND ug/L		4.0	1		09/02/11 12:01	74-87-3	
Chloroprene	ND ug/L		1.0	1		09/02/11 12:01	126-99-8	
2-Chlorotoluene	ND ug/L		1.0	1		09/02/11 12:01	95-49-8	
4-Chlorotoluene	ND ug/L		1.0	1		09/02/11 12:01	106-43-4	
1,2-Dibromo-3-chloropropane	ND ug/L		4.0	1		09/02/11 12:01	96-12-8	
Dibromochloromethane	ND ug/L		1.0	1		09/02/11 12:01	124-48-1	
1,2-Dibromoethane (EDB)	ND ug/L		1.0	1		09/02/11 12:01	106-93-4	
Dibromomethane	ND ug/L		4.0	1		09/02/11 12:01	74-95-3	
1,2-Dichlorobenzene	ND ug/L		1.0	1		09/02/11 12:01	95-50-1	
1,3-Dichlorobenzene	ND ug/L		1.0	1		09/02/11 12:01	541-73-1	
1,4-Dichlorobenzene	ND ug/L		1.0	1		09/02/11 12:01	106-46-7	
Dichlorodifluoromethane	ND ug/L		1.0	1		09/02/11 12:01	75-71-8	
1,1-Dichloroethane	ND ug/L		1.0	1		09/02/11 12:01	75-34-3	
1,2-Dichloroethane	ND ug/L		1.0	1		09/02/11 12:01	107-06-2	
1,1-Dichloroethene	ND ug/L		1.0	1		09/02/11 12:01	75-35-4	
cis-1,2-Dichloroethene	ND ug/L		1.0	1		09/02/11 12:01	156-59-2	
trans-1,2-Dichloroethene	ND ug/L		4.0	1		09/02/11 12:01	156-60-5	
Dichlorofluoromethane	ND ug/L		1.0	1		09/02/11 12:01	75-43-4	
1,2-Dichloropropane	ND ug/L		4.0	1		09/02/11 12:01	78-87-5	
1,3-Dichloropropane	ND ug/L		1.0	1		09/02/11 12:01	142-28-9	
2,2-Dichloropropane	ND ug/L		4.0	1		09/02/11 12:01	594-20-7	
1,1-Dichloropropene	ND ug/L		1.0	1		09/02/11 12:01	563-58-6	
cis-1,3-Dichloropropene	ND ug/L		4.0	1		09/02/11 12:01	10061-01-5	
trans-1,3-Dichloropropene	ND ug/L		4.0	1		09/02/11 12:01	10061-02-6	
Diethyl ether (Ethyl ether)	ND ug/L		4.0	1		09/02/11 12:01	60-29-7	
Ethylbenzene	ND ug/L		1.0	1		09/02/11 12:01	100-41-4	
Hexachloro-1,3-butadiene	ND ug/L		5.0	1		09/02/11 12:01	87-68-3	

Date: 09/06/2011 02:58 PM

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: CRC City of Rochester

Pace Project No.: 10167932

Sample: AS-Influent		Lab ID: 10167932001	Collected: 08/28/11 12:00	Received: 08/29/11 13:56	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
624 MSV		Analytical Method: EPA 624							
2-Hexanone	ND	ug/L	4.0	1		09/02/11 12:01	591-78-6		
Iodomethane	ND	ug/L	4.0	1		09/02/11 12:01	74-88-4	L2	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		09/02/11 12:01	98-82-8		
p-Isopropyltoluene	ND	ug/L	1.0	1		09/02/11 12:01	99-87-6		
Methylene Chloride	ND	ug/L	4.0	1		09/02/11 12:01	75-09-2		
2-Methylnaphthalene	ND	ug/L	5.0	1		09/02/11 12:01	91-57-6		
4-Methyl-2-pentanone (MIBK)	ND	ug/L	4.0	1		09/02/11 12:01	108-10-1		
Methyl-tert-butyl ether	ND	ug/L	1.0	1		09/02/11 12:01	1634-04-4		
Naphthalene	ND	ug/L	4.0	1		09/02/11 12:01	91-20-3		
n-Propylbenzene	ND	ug/L	1.0	1		09/02/11 12:01	103-65-1		
Styrene	ND	ug/L	1.0	1		09/02/11 12:01	100-42-5		
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		09/02/11 12:01	630-20-6		
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		09/02/11 12:01	79-34-5		
Tetrachloroethene	50.7	ug/L	1.0	1		09/02/11 12:01	127-18-4		
Tetrahydrofuran	ND	ug/L	10.0	1		09/02/11 12:01	109-99-9		
Toluene	ND	ug/L	1.0	1		09/02/11 12:01	108-88-3		
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		09/02/11 12:01	87-61-6		
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		09/02/11 12:01	120-82-1		
1,1,1-Trichloroethane	ND	ug/L	1.0	1		09/02/11 12:01	71-55-6		
1,1,2-Trichloroethane	ND	ug/L	1.0	1		09/02/11 12:01	79-00-5		
Trichloroethene	ND	ug/L	1.0	1		09/02/11 12:01	79-01-6		
Trichlorofluoromethane	ND	ug/L	1.0	1		09/02/11 12:01	75-69-4		
1,2,3-Trichloropropane	ND	ug/L	4.0	1		09/02/11 12:01	96-18-4		
1,1,2-Trichlorotrifluoroethane	ND	ug/L	1.0	1		09/02/11 12:01	76-13-1		
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1		09/02/11 12:01	95-63-6		
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1		09/02/11 12:01	108-67-8		
Vinyl acetate	ND	ug/L	10.0	1		09/02/11 12:01	108-05-4		
Vinyl chloride	ND	ug/L	0.40	1		09/02/11 12:01	75-01-4		
Xylene (Total)	ND	ug/L	3.0	1		09/02/11 12:01	1330-20-7		
m&p-Xylene	ND	ug/L	2.0	1		09/02/11 12:01	179601-23-1		
o-Xylene	ND	ug/L	1.0	1		09/02/11 12:01	95-47-6		
Dibromofluoromethane (S)	108	%	75-125	1		09/02/11 12:01	1868-53-7		
4-Bromofluorobenzene (S)	99	%	75-125	1		09/02/11 12:01	460-00-4		
Toluene-d8 (S)	95	%	75-125	1		09/02/11 12:01	2037-26-5		
1,2-Dichloroethane-d4 (S)	107	%	75-125	1		09/02/11 12:01	17060-07-0		

ANALYTICAL RESULTS

Project: CRC City of Rochester

Pace Project No.: 10167932

Sample: AS-Effluent		Lab ID: 10167932002	Collected: 08/28/11 12:00	Received: 08/29/11 13:56	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		09/02/11 12:51	67-64-1		
Acrolein	ND	ug/L	10.0	1		09/02/11 12:51	107-02-8		
Acrylonitrile	ND	ug/L	10.0	1		09/02/11 12:51	107-13-1		
Allyl chloride	ND	ug/L	4.0	1		09/02/11 12:51	107-05-1		
Benzene	ND	ug/L	1.0	1		09/02/11 12:51	71-43-2		
Bromobenzene	ND	ug/L	1.0	1		09/02/11 12:51	108-86-1		
Bromochloromethane	ND	ug/L	1.0	1		09/02/11 12:51	74-97-5		
Bromodichloromethane	ND	ug/L	1.0	1		09/02/11 12:51	75-27-4		
Bromoform	ND	ug/L	4.0	1		09/02/11 12:51	75-25-2		
Bromomethane	ND	ug/L	4.0	1		09/02/11 12:51	74-83-9		
2-Butanone (MEK)	ND	ug/L	4.0	1		09/02/11 12:51	78-93-3		
n-Butylbenzene	ND	ug/L	1.0	1		09/02/11 12:51	104-51-8		
sec-Butylbenzene	ND	ug/L	1.0	1		09/02/11 12:51	135-98-8		
tert-Butylbenzene	ND	ug/L	1.0	1		09/02/11 12:51	98-06-6		
Carbon disulfide	ND	ug/L	1.0	1		09/02/11 12:51	75-15-0	L2	
Carbon tetrachloride	ND	ug/L	1.0	1		09/02/11 12:51	56-23-5		
Chlorobenzene	ND	ug/L	1.0	1		09/02/11 12:51	108-90-7		
Chloroethane	ND	ug/L	1.0	1		09/02/11 12:51	75-00-3		
2-Chloroethylvinyl ether	ND	ug/L	10.0	1		09/02/11 12:51	110-75-8		
Chloroform	ND	ug/L	1.0	1		09/02/11 12:51	67-66-3		
Chloromethane	4.9	ug/L	4.0	1		09/02/11 12:51	74-87-3		
Chloroprene	ND	ug/L	1.0	1		09/02/11 12:51	126-99-8		
2-Chlorotoluene	ND	ug/L	1.0	1		09/02/11 12:51	95-49-8		
4-Chlorotoluene	ND	ug/L	1.0	1		09/02/11 12:51	106-43-4		
1,2-Dibromo-3-chloropropane	ND	ug/L	4.0	1		09/02/11 12:51	96-12-8		
Dibromochloromethane	ND	ug/L	1.0	1		09/02/11 12:51	124-48-1		
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		09/02/11 12:51	106-93-4		
Dibromomethane	ND	ug/L	4.0	1		09/02/11 12:51	74-95-3		
1,2-Dichlorobenzene	ND	ug/L	1.0	1		09/02/11 12:51	95-50-1		
1,3-Dichlorobenzene	ND	ug/L	1.0	1		09/02/11 12:51	541-73-1		
1,4-Dichlorobenzene	ND	ug/L	1.0	1		09/02/11 12:51	106-46-7		
Dichlorodifluoromethane	ND	ug/L	1.0	1		09/02/11 12:51	75-71-8		
1,1-Dichloroethane	ND	ug/L	1.0	1		09/02/11 12:51	75-34-3		
1,2-Dichloroethane	ND	ug/L	1.0	1		09/02/11 12:51	107-06-2		
1,1-Dichloroethene	ND	ug/L	1.0	1		09/02/11 12:51	75-35-4		
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		09/02/11 12:51	156-59-2		
trans-1,2-Dichloroethene	ND	ug/L	4.0	1		09/02/11 12:51	156-60-5		
Dichlorofluoromethane	ND	ug/L	1.0	1		09/02/11 12:51	75-43-4		
1,2-Dichloropropane	ND	ug/L	4.0	1		09/02/11 12:51	78-87-5		
1,3-Dichloropropane	ND	ug/L	1.0	1		09/02/11 12:51	142-28-9		
2,2-Dichloropropane	ND	ug/L	4.0	1		09/02/11 12:51	594-20-7		
1,1-Dichloropropene	ND	ug/L	1.0	1		09/02/11 12:51	563-58-6		
cis-1,3-Dichloropropene	ND	ug/L	4.0	1		09/02/11 12:51	10061-01-5		
trans-1,3-Dichloropropene	ND	ug/L	4.0	1		09/02/11 12:51	10061-02-6		
Diethyl ether (Ethyl ether)	ND	ug/L	4.0	1		09/02/11 12:51	60-29-7		
Ethylbenzene	ND	ug/L	1.0	1		09/02/11 12:51	100-41-4		
Hexachloro-1,3-butadiene	ND	ug/L	5.0	1		09/02/11 12:51	87-68-3		

Date: 09/06/2011 02:58 PM

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: CRC City of Rochester

Pace Project No.: 10167932

Sample: AS-Effluent	Lab ID: 10167932002	Collected: 08/28/11 12:00	Received: 08/29/11 13:56	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
624 MSV		Analytical Method: EPA 624						
2-Hexanone	ND ug/L		4.0	1		09/02/11 12:51	591-78-6	
Iodomethane	ND ug/L		4.0	1		09/02/11 12:51	74-88-4	L2
Isopropylbenzene (Cumene)	ND ug/L		1.0	1		09/02/11 12:51	98-82-8	
p-Isopropyltoluene	ND ug/L		1.0	1		09/02/11 12:51	99-87-6	
Methylene Chloride	ND ug/L		4.0	1		09/02/11 12:51	75-09-2	
2-Methylnaphthalene	ND ug/L		5.0	1		09/02/11 12:51	91-57-6	
4-Methyl-2-pentanone (MIBK)	ND ug/L		4.0	1		09/02/11 12:51	108-10-1	
Methyl-tert-butyl ether	ND ug/L		1.0	1		09/02/11 12:51	1634-04-4	
Naphthalene	ND ug/L		4.0	1		09/02/11 12:51	91-20-3	
n-Propylbenzene	ND ug/L		1.0	1		09/02/11 12:51	103-65-1	
Styrene	ND ug/L		1.0	1		09/02/11 12:51	100-42-5	
1,1,1,2-Tetrachloroethane	ND ug/L		1.0	1		09/02/11 12:51	630-20-6	
1,1,2,2-Tetrachloroethane	ND ug/L		1.0	1		09/02/11 12:51	79-34-5	
Tetrachloroethene	ND ug/L		1.0	1		09/02/11 12:51	127-18-4	
Tetrahydrofuran	ND ug/L		10.0	1		09/02/11 12:51	109-99-9	
Toluene	ND ug/L		1.0	1		09/02/11 12:51	108-88-3	
1,2,3-Trichlorobenzene	ND ug/L		1.0	1		09/02/11 12:51	87-61-6	
1,2,4-Trichlorobenzene	ND ug/L		1.0	1		09/02/11 12:51	120-82-1	
1,1,1-Trichloroethane	ND ug/L		1.0	1		09/02/11 12:51	71-55-6	
1,1,2-Trichloroethane	ND ug/L		1.0	1		09/02/11 12:51	79-00-5	
Trichloroethene	ND ug/L		1.0	1		09/02/11 12:51	79-01-6	
Trichlorofluoromethane	ND ug/L		1.0	1		09/02/11 12:51	75-69-4	
1,2,3-Trichloropropane	ND ug/L		4.0	1		09/02/11 12:51	96-18-4	
1,1,2-Trichlorotrifluoroethane	ND ug/L		1.0	1		09/02/11 12:51	76-13-1	
1,2,4-Trimethylbenzene	ND ug/L		1.0	1		09/02/11 12:51	95-63-6	
1,3,5-Trimethylbenzene	ND ug/L		1.0	1		09/02/11 12:51	108-67-8	
Vinyl acetate	ND ug/L		10.0	1		09/02/11 12:51	108-05-4	
Vinyl chloride	ND ug/L		0.40	1		09/02/11 12:51	75-01-4	
Xylene (Total)	ND ug/L		3.0	1		09/02/11 12:51	1330-20-7	
m&p-Xylene	ND ug/L		2.0	1		09/02/11 12:51	179601-23-1	
o-Xylene	ND ug/L		1.0	1		09/02/11 12:51	95-47-6	
Dibromofluoromethane (S)	109 %		75-125	1		09/02/11 12:51	1868-53-7	
4-Bromofluorobenzene (S)	97 %		75-125	1		09/02/11 12:51	460-00-4	
Toluene-d8 (S)	95 %		75-125	1		09/02/11 12:51	2037-26-5	
1,2-Dichloroethane-d4 (S)	107 %		75-125	1		09/02/11 12:51	17060-07-0	

QUALITY CONTROL DATA

Project: CRC City of Rochester

Pace Project No.: 10167932

QC Batch: MSV/17839 Analysis Method: EPA 624
 QC Batch Method: EPA 624 Analysis Description: 624 MSV
 Associated Lab Samples: 10167932001, 10167932002

METHOD BLANK: 1047466 Matrix: Water

Associated Lab Samples: 10167932001, 10167932002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	1.0	09/02/11 11:29	
1,1,1-Trichloroethane	ug/L	ND	1.0	09/02/11 11:29	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	09/02/11 11:29	
1,1,2-Trichloroethane	ug/L	ND	1.0	09/02/11 11:29	
1,1,2-Trichlorotrifluoroethane	ug/L	ND	1.0	09/02/11 11:29	
1,1-Dichloroethane	ug/L	ND	1.0	09/02/11 11:29	
1,1-Dichloroethene	ug/L	ND	1.0	09/02/11 11:29	
1,1-Dichloropropene	ug/L	ND	1.0	09/02/11 11:29	
1,2,3-Trichlorobenzene	ug/L	ND	1.0	09/02/11 11:29	
1,2,3-Trichloropropane	ug/L	ND	4.0	09/02/11 11:29	
1,2,4-Trichlorobenzene	ug/L	ND	1.0	09/02/11 11:29	
1,2,4-Trimethylbenzene	ug/L	ND	1.0	09/02/11 11:29	
1,2-Dibromo-3-chloropropane	ug/L	ND	4.0	09/02/11 11:29	
1,2-Dibromoethane (EDB)	ug/L	ND	1.0	09/02/11 11:29	
1,2-Dichlorobenzene	ug/L	ND	1.0	09/02/11 11:29	
1,2-Dichloroethane	ug/L	ND	1.0	09/02/11 11:29	
1,2-Dichloropropane	ug/L	ND	4.0	09/02/11 11:29	
1,3,5-Trimethylbenzene	ug/L	ND	1.0	09/02/11 11:29	
1,3-Dichlorobenzene	ug/L	ND	1.0	09/02/11 11:29	
1,3-Dichloropropane	ug/L	ND	1.0	09/02/11 11:29	
1,4-Dichlorobenzene	ug/L	ND	1.0	09/02/11 11:29	
2,2-Dichloropropane	ug/L	ND	4.0	09/02/11 11:29	
2-Butanone (MEK)	ug/L	ND	4.0	09/02/11 11:29	
2-Chloroethylvinyl ether	ug/L	ND	10.0	09/02/11 11:29	
2-Chlorotoluene	ug/L	ND	1.0	09/02/11 11:29	
2-Hexanone	ug/L	ND	4.0	09/02/11 11:29	
2-Methylnaphthalene	ug/L	ND	5.0	09/02/11 11:29	
4-Chlorotoluene	ug/L	ND	1.0	09/02/11 11:29	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	4.0	09/02/11 11:29	
Acetone	ug/L	ND	25.0	09/02/11 11:29	
Acrolein	ug/L	ND	10.0	09/02/11 11:29	
Acrylonitrile	ug/L	ND	10.0	09/02/11 11:29	
Allyl chloride	ug/L	ND	4.0	09/02/11 11:29	
Benzene	ug/L	ND	1.0	09/02/11 11:29	
Bromobenzene	ug/L	ND	1.0	09/02/11 11:29	
Bromochloromethane	ug/L	ND	1.0	09/02/11 11:29	
Bromodichloromethane	ug/L	ND	1.0	09/02/11 11:29	
Bromoform	ug/L	ND	4.0	09/02/11 11:29	
Bromomethane	ug/L	ND	4.0	09/02/11 11:29	
Carbon disulfide	ug/L	ND	1.0	09/02/11 11:29	
Carbon tetrachloride	ug/L	ND	1.0	09/02/11 11:29	
Chlorobenzene	ug/L	ND	1.0	09/02/11 11:29	
Chloroethane	ug/L	ND	1.0	09/02/11 11:29	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: CRC City of Rochester

Pace Project No.: 10167932

METHOD BLANK: 1047466

Matrix: Water

Associated Lab Samples: 10167932001, 10167932002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloroform	ug/L	ND	1.0	09/02/11 11:29	
Chloromethane	ug/L	ND	4.0	09/02/11 11:29	
Chloroprene	ug/L	ND	1.0	09/02/11 11:29	
cis-1,2-Dichloroethene	ug/L	ND	1.0	09/02/11 11:29	
cis-1,3-Dichloropropene	ug/L	ND	4.0	09/02/11 11:29	
Dibromochloromethane	ug/L	ND	1.0	09/02/11 11:29	
Dibromomethane	ug/L	ND	4.0	09/02/11 11:29	
Dichlorodifluoromethane	ug/L	ND	1.0	09/02/11 11:29	
Dichlorofluoromethane	ug/L	ND	1.0	09/02/11 11:29	
Diethyl ether (Ethyl ether)	ug/L	ND	4.0	09/02/11 11:29	
Ethylbenzene	ug/L	ND	1.0	09/02/11 11:29	
Hexachloro-1,3-butadiene	ug/L	ND	5.0	09/02/11 11:29	
Iodomethane	ug/L	ND	4.0	09/02/11 11:29	
Isopropylbenzene (Cumene)	ug/L	ND	1.0	09/02/11 11:29	
m&p-Xylene	ug/L	ND	2.0	09/02/11 11:29	
Methyl-tert-butyl ether	ug/L	ND	1.0	09/02/11 11:29	
Methylene Chloride	ug/L	ND	4.0	09/02/11 11:29	
n-Butylbenzene	ug/L	ND	1.0	09/02/11 11:29	
n-Propylbenzene	ug/L	ND	1.0	09/02/11 11:29	
Naphthalene	ug/L	ND	4.0	09/02/11 11:29	
o-Xylene	ug/L	ND	1.0	09/02/11 11:29	
p-Isopropyltoluene	ug/L	ND	1.0	09/02/11 11:29	
sec-Butylbenzene	ug/L	ND	1.0	09/02/11 11:29	
Styrene	ug/L	ND	1.0	09/02/11 11:29	
tert-Butylbenzene	ug/L	ND	1.0	09/02/11 11:29	
Tetrachloroethene	ug/L	ND	1.0	09/02/11 11:29	
Tetrahydrofuran	ug/L	ND	10.0	09/02/11 11:29	
Toluene	ug/L	ND	1.0	09/02/11 11:29	
trans-1,2-Dichloroethene	ug/L	ND	4.0	09/02/11 11:29	
trans-1,3-Dichloropropene	ug/L	ND	4.0	09/02/11 11:29	
Trichloroethene	ug/L	ND	1.0	09/02/11 11:29	
Trichlorofluoromethane	ug/L	ND	1.0	09/02/11 11:29	
Vinyl acetate	ug/L	ND	10.0	09/02/11 11:29	
Vinyl chloride	ug/L	ND	0.40	09/02/11 11:29	
Xylene (Total)	ug/L	ND	3.0	09/02/11 11:29	
1,2-Dichloroethane-d4 (S)	%	104	75-125	09/02/11 11:29	
4-Bromofluorobenzene (S)	%	99	75-125	09/02/11 11:29	
Dibromofluoromethane (S)	%	108	75-125	09/02/11 11:29	
Toluene-d8 (S)	%	97	75-125	09/02/11 11:29	

LABORATORY CONTROL SAMPLE: 1047467

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	49.5	99	75-129	
1,1,1-Trichloroethane	ug/L	50	50.5	101	73-144	

QUALITY CONTROL DATA

Project: CRC City of Rochester

Pace Project No.: 10167932

LABORATORY CONTROL SAMPLE: 1047467

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,2,2-Tetrachloroethane	ug/L	50	48.3	97	75-125	
1,1,2-Trichloroethane	ug/L	50	50.5	101	75-125	
1,1,2-Trichlorotrifluoroethane	ug/L	50	44.8	90	75-143	
1,1-Dichloroethane	ug/L	50	50.2	100	75-135	
1,1-Dichloroethene	ug/L	50	43.4	87	75-133	
1,1-Dichloropropene	ug/L	50	45.7	91	75-131	
1,2,3-Trichlorobenzene	ug/L	50	47.1	94	73-141	
1,2,3-Trichloropropane	ug/L	50	47.4	95	75-126	
1,2,4-Trichlorobenzene	ug/L	50	47.1	94	70-148	
1,2,4-Trimethylbenzene	ug/L	50	46.6	93	75-141	
1,2-Dibromo-3-chloropropane	ug/L	50	44.5	89	64-135	
1,2-Dibromoethane (EDB)	ug/L	50	45.3	91	75-125	
1,2-Dichlorobenzene	ug/L	50	47.8	96	75-125	
1,2-Dichloroethane	ug/L	50	53.3	107	75-136	
1,2-Dichloropropane	ug/L	50	49.8	100	75-130	
1,3,5-Trimethylbenzene	ug/L	50	45.6	91	75-141	
1,3-Dichlorobenzene	ug/L	50	46.9	94	75-125	
1,3-Dichloropropane	ug/L	50	47.5	95	75-125	
1,4-Dichlorobenzene	ug/L	50	46.8	94	75-125	
2,2-Dichloropropane	ug/L	50	52.0	104	50-150	
2-Butanone (MEK)	ug/L	50	53.2	106	58-138	
2-Chloroethylvinyl ether	ug/L	125	86.1	69	50-150	
2-Chlorotoluene	ug/L	50	45.7	91	75-132	
2-Hexanone	ug/L	50	47.9	96	65-135	
2-Methylnaphthalene	ug/L	25	21.1	84	62-150	
4-Chlorotoluene	ug/L	50	45.7	91	75-135	
4-Methyl-2-pentanone (MIBK)	ug/L	50	47.3	95	69-137	
Acetone	ug/L	125	122	98	52-141	
Acrolein	ug/L	500	707	141	50-150	CH
Acrylonitrile	ug/L	500	546	109	75-130	
Allyl chloride	ug/L	50	48.3	97	68-150	
Benzene	ug/L	50	49.1	98	75-125	
Bromobenzene	ug/L	50	47.4	95	75-125	
Bromochloromethane	ug/L	50	52.4	105	75-129	
Bromodichloromethane	ug/L	50	52.5	105	75-142	
Bromoform	ug/L	50	51.0	102	66-135	
Bromomethane	ug/L	50	39.9	80	57-150	
Carbon disulfide	ug/L	50	30.2	60	65-132	LO
Carbon tetrachloride	ug/L	50	49.9	100	75-148	
Chlorobenzene	ug/L	50	46.6	93	75-125	
Chloroethane	ug/L	50	48.8	98	66-142	
Chloroform	ug/L	50	53.4	107	75-131	
Chloromethane	ug/L	50	47.7	95	52-147	
Chloroprene	ug/L	50	47.3	95	71-147	
cis-1,2-Dichloroethene	ug/L	50	46.3	93	75-126	
cis-1,3-Dichloropropene	ug/L	50	49.3	99	69-150	
Dibromochloromethane	ug/L	50	51.3	103	73-138	
Dibromomethane	ug/L	50	47.3	95	75-127	

QUALITY CONTROL DATA

Project: CRC City of Rochester

Pace Project No.: 10167932

LABORATORY CONTROL SAMPLE: 1047467

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Dichlorodifluoromethane	ug/L	50	42.1	84	50-150	
Dichlorofluoromethane	ug/L	50	49.4	99	75-129	
Diethyl ether (Ethyl ether)	ug/L	50	49.7	99	75-126	
Ethylbenzene	ug/L	50	45.1	90	75-132	
Hexachloro-1,3-butadiene	ug/L	25	22.9	92	75-129	
Iodomethane	ug/L	50	33.1	66	73-150	L0
Isopropylbenzene (Cumene)	ug/L	50	47.2	94	75-142	
m&p-Xylene	ug/L	100	91.0	91	75-131	
Methyl-tert-butyl ether	ug/L	50	55.2	110	75-130	
Methylene Chloride	ug/L	50	43.0	86	71-125	
n-Butylbenzene	ug/L	50	46.6	93	70-148	
n-Propylbenzene	ug/L	50	45.6	91	75-136	
Naphthalene	ug/L	50	46.4	93	69-145	
o-Xylene	ug/L	50	46.9	94	75-129	
p-Isopropyltoluene	ug/L	50	46.5	93	75-132	
sec-Butylbenzene	ug/L	50	46.5	93	75-136	
Styrene	ug/L	50	49.4	99	75-125	
tert-Butylbenzene	ug/L	50	46.4	93	75-135	
Tetrachloroethene	ug/L	50	43.4	87	75-125	
Tetrahydrofuran	ug/L	500	510	102	63-144	
Toluene	ug/L	50	44.0	88	75-125	
trans-1,2-Dichloroethene	ug/L	50	44.9	90	72-135	
trans-1,3-Dichloropropene	ug/L	50	48.2	96	62-150	
Trichloroethene	ug/L	50	46.8	94	75-125	
Trichlorofluoromethane	ug/L	50	51.4	103	67-150	
Vinyl acetate	ug/L	50	51.6	103	55-150	
Vinyl chloride	ug/L	50	49.7	99	63-147	
Xylene (Total)	ug/L	150	138	92	75-130	
1,2-Dichloroethane-d4 (S)	%			101	75-125	
4-Bromofluorobenzene (S)	%			99	75-125	
Dibromofluoromethane (S)	%			107	75-125	
Toluene-d8 (S)	%			95	75-125	

MATRIX SPIKE SAMPLE: 1048684

Parameter	Units	10167932001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	50	54.9	110	70-136	
1,1,1-Trichloroethane	ug/L	ND	50	62.4	125	68-150	
1,1,2,2-Tetrachloroethane	ug/L	ND	50	52.5	105	75-125	
1,1,2-Trichloroethane	ug/L	ND	50	54.0	108	75-125	
1,1,2-Trichlorotrifluoroethane	ug/L	ND	50	69.3	139	75-150	
1,1-Dichloroethane	ug/L	ND	50	59.2	118	67-143	
1,1-Dichloroethene	ug/L	ND	50	56.8	114	75-147	
1,1-Dichloropropene	ug/L	ND	50	58.5	117	75-141	
1,2,3-Trichlorobenzene	ug/L	ND	50	51.7	103	71-141	
1,2,3-Trichloropropane	ug/L	ND	50	51.2	102	75-128	
1,2,4-Trichlorobenzene	ug/L	ND	50	52.3	105	61-148	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: CRC City of Rochester
Pace Project No.: 10167932

MATRIX SPIKE SAMPLE:		1048684						
Parameter	Units	10167932001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers	
1,2,4-Trimethylbenzene	ug/L	ND	50	52.5	105	65-145		
1,2-Dibromo-3-chloropropane	ug/L	ND	50	49.1	98	64-135		
1,2-Dibromoethane (EDB)	ug/L	ND	50	48.8	98	75-126		
1,2-Dichlorobenzene	ug/L	ND	50	52.8	106	75-127		
1,2-Dichloroethane	ug/L	ND	50	58.6	117	70-138		
1,2-Dichloropropane	ug/L	ND	50	55.6	111	75-130		
1,3,5-Trimethylbenzene	ug/L	ND	50	52.8	106	61-150		
1,3-Dichlorobenzene	ug/L	ND	50	52.5	105	75-126		
1,3-Dichloropropane	ug/L	ND	50	51.7	103	75-125		
1,4-Dichlorobenzene	ug/L	ND	50	51.5	103	75-125		
2,2-Dichloropropane	ug/L	ND	50	65.3	131	50-150		
2-Butanone (MEK)	ug/L	ND	50	44.6	84	50-141		
2-Chloroethylvinyl ether	ug/L	ND	125	ND	.4	50-150	M1	
2-Chlorotoluene	ug/L	ND	50	52.4	105	75-137		
2-Hexanone	ug/L	ND	50	46.0	92	66-135		
2-Methylnaphthalene	ug/L	ND	25	23.8	95	62-150		
4-Chlorotoluene	ug/L	ND	50	51.2	102	70-144		
4-Methyl-2-pentanone (MIBK)	ug/L	ND	50	51.3	103	62-142		
Acetone	ug/L	ND	125	70.5	54	50-150		
Acrolein	ug/L	ND	500	633	127	50-150	CH	
Acrylonitrile	ug/L	ND	500	596	119	70-135		
Allyl chloride	ug/L	ND	50	57.5	115	50-150		
Benzene	ug/L	ND	50	58.2	116	75-125		
Bromobenzene	ug/L	ND	50	52.4	105	75-125		
Bromochloromethane	ug/L	ND	50	58.3	117	73-137		
Bromodichloromethane	ug/L	ND	50	57.0	114	70-142		
Bromoform	ug/L	ND	50	53.9	108	55-135		
Bromomethane	ug/L	ND	50	42.9	86	50-150		
Carbon disulfide	ug/L	ND	50	37.7	75	50-150		
Carbon tetrachloride	ug/L	ND	50	63.2	126	64-150		
Chlorobenzene	ug/L	ND	50	53.3	107	75-125		
Chloroethane	ug/L	ND	50	55.7	111	59-150		
Chloroform	ug/L	ND	50	60.9	122	75-132		
Chloromethane	ug/L	ND	50	52.9	99	52-150		
Chloroprene	ug/L	ND	50	59.4	119	54-150		
cis-1,2-Dichloroethene	ug/L	ND	50	54.1	108	64-144		
cis-1,3-Dichloropropene	ug/L	ND	50	53.4	107	56-150		
Dibromochloromethane	ug/L	ND	50	55.1	110	60-138		
Dibromomethane	ug/L	ND	50	51.8	104	75-127		
Dichlorodifluoromethane	ug/L	ND	50	63.9	128	50-150		
Dichlorofluoromethane	ug/L	ND	50	59.7	119	74-142		
Diethyl ether (Ethyl ether)	ug/L	ND	50	54.2	108	75-127		
Ethylbenzene	ug/L	ND	50	53.1	106	75-134		
Hexachloro-1,3-butadiene	ug/L	ND	25	27.2	109	63-150		
Iodomethane	ug/L	ND	50	36.3	73	50-150		
Isopropylbenzene (Cumene)	ug/L	ND	50	55.4	111	69-147		
m&p-Xylene	ug/L	ND	100	106	106	75-133		
Methyl-tert-butyl ether	ug/L	ND	50	60.3	121	73-131		

QUALITY CONTROL DATA

Project: CRC City of Rochester
Pace Project No.: 10167932

MATRIX SPIKE SAMPLE: 1048684		10167932001	Spike	MS	MS	% Rec	
Parameter	Units	Result	Conc.	Result	% Rec	Limits	Qualifiers
Methylene Chloride	ug/L	ND	50	48.3	97	68-126	
n-Butylbenzene	ug/L	ND	50	53.8	108	59-150	
n-Propylbenzene	ug/L	ND	50	53.4	107	72-143	
Naphthalene	ug/L	ND	50	51.0	102	57-148	
o-Xylene	ug/L	ND	50	53.1	106	75-131	
p-Isopropyltoluene	ug/L	ND	50	54.1	108	75-137	
sec-Butylbenzene	ug/L	ND	50	54.7	109	75-144	
Styrene	ug/L	ND	50	55.5	111	75-134	
tert-Butylbenzene	ug/L	ND	50	54.1	108	68-150	
Tetrachloroethene	ug/L	50.7	50	102	102	75-130	
Tetrahydrofuran	ug/L	ND	500	576	115	60-148	
Toluene	ug/L	ND	50	51.0	102	75-125	
trans-1,2-Dichloroethene	ug/L	ND	50	55.0	110	75-145	
trans-1,3-Dichloropropene	ug/L	ND	50	50.8	102	50-150	
Trichloroethene	ug/L	ND	50	56.3	113	73-132	
Trichlorofluoromethane	ug/L	ND	50	70.1	140	67-150	
Vinyl acetate	ug/L	ND	50	56.0	112	50-150	
Vinyl chloride	ug/L	ND	50	61.0	122	63-150	
Xylene (Total)	ug/L	ND	150	159	106	72-138	
1,2-Dichloroethane-d4 (S)	%				102	75-125	
4-Bromofluorobenzene (S)	%				99	75-125	
Dibromofluoromethane (S)	%				107	75-125	
Toluene-d8 (S)	%				94	75-125	

SAMPLE DUPLICATE: 1048685

Parameter	Units	10168276001	Dup	RPD	Max	Qualifiers
		Result	Result		RPD	
1,1,1,2-Tetrachloroethane	ug/L	ND	ND		30	
1,1,1-Trichloroethane	ug/L	ND	ND		30	
1,1,2,2-Tetrachloroethane	ug/L	ND	ND		30	
1,1,2-Trichloroethane	ug/L	ND	ND		30	
1,1,2-Trichlorotrifluoroethane	ug/L	ND	ND		30	
1,1-Dichloroethane	ug/L	9.3	9.1	2	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	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: CRC City of Rochester

Pace Project No.: 10167932

SAMPLE DUPLICATE: 1048685

Parameter	Units	10168276001 Result	Dup Result	RPD	Max RPD	Qualifiers
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	2.8	2.9	.6	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	
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	

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QUALITY CONTROL DATA

Project: CRC City of Rochester

Pace Project No.: 10167932

SAMPLE DUPLICATE: 1048685

Parameter	Units	10168276001 Result	Dup Result	RPD	Max RPD	Qualifiers
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	0.52	0.49	6	30	
Xylene (Total)	ug/L	ND	ND		30	
1,2-Dichloroethane-d4 (S)	%	106	107	.9		
4-Bromofluorobenzene (S)	%	98	97	1		
Dibromofluoromethane (S)	%	109	110	1		
Toluene-d8 (S)	%	94	93	.6		

QUALIFIERS

Project: CRC City of Rochester

Pace Project No.: 10167932

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

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

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: CRC City of Rochester

Pace Project No.: 10167932

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10167932001	AS-Influent	EPA 624	MSV/17839		
10167932002	AS-Effluent	EPA 624	MSV/17839		



Document Name:
Sample Condition Upon Receipt Form
 Document Number:
F-L-213 Rev.01

Revised Date: 02Jun2011
 Page 1 of 1
 Issuing Authority:
 Pace Minnesota Quality Office

Sample Condition Upon Receipt

Client Name: Landmark Project # 10167932

Courier: Fed Ex UPS USPS Client Commercial Pace Other _____

Tracking #: _____

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

Optional
 Proj. Due/Date
 Proj. Name

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

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

Cooler Temperature 6.0 Biological Tissue is Frozen: Yes No
 Temp should be above freezing to 6°C

Date and Initials of person examining contents: 8/29/11 sm

Comments:

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

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

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: C. D. [Signature] Date: 8/29/11

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)

September 06, 2011

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

RE: Project: CRC - City of Rochester
Pace Project No.: 10167944

Dear Mr. Skramstad:

Enclosed are the analytical results for sample(s) received by the laboratory on August 29, 2011. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards, where applicable, unless otherwise narrated 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



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: CRC - City of Rochester

Pace Project No.: 10167944

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

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: CRC - City of Rochester

Pace Project No.: 10167944

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10167944001	DPE - EXHAUST - 0260	Air	08/28/11 17:00	08/29/11 13:56
10167944002	0716	Air		08/29/11 13:56

REPORT OF LABORATORY ANALYSIS

SAMPLE ANALYTE COUNT

Project: CRC - City of Rochester
Pace Project No.: 10167944

Lab ID	Sample ID	Method	Analysts	Analytes Reported
10167944001	DPE - EXHAUST - 0260	TO-15	CJR	61

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: CRC - City of Rochester

Pace Project No.: 10167944

Sample: DPE - EXHAUST - 0260	Lab ID: 10167944001	Collected: 08/28/11 17:00	Received: 08/29/11 13:56	Matrix: Air				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR		Analytical Method: TO-15						
Acetone	53.1	ug/m3	18.0	37.6		08/31/11 21:39	67-64-1	
Benzene	ND	ug/m3	12.2	37.6		08/31/11 21:39	71-43-2	
Benzyl chloride	ND	ug/m3	39.5	37.6		08/31/11 21:39	100-44-7	
Bromodichloromethane	ND	ug/m3	52.6	37.6		08/31/11 21:39	75-27-4	
Bromoform	ND	ug/m3	79.0	37.6		08/31/11 21:39	75-25-2	
Bromomethane	ND	ug/m3	29.7	37.6		08/31/11 21:39	74-83-9	
1,3-Butadiene	ND	ug/m3	16.9	37.6		08/31/11 21:39	106-99-0	
2-Butanone (MEK)	ND	ug/m3	22.6	37.6		08/31/11 21:39	78-93-3	
Carbon disulfide	ND	ug/m3	23.7	37.6		08/31/11 21:39	75-15-0	
Carbon tetrachloride	ND	ug/m3	24.1	37.6		08/31/11 21:39	56-23-5	
Chlorobenzene	ND	ug/m3	35.3	37.6		08/31/11 21:39	108-90-7	
Chloroethane	ND	ug/m3	20.3	37.6		08/31/11 21:39	75-00-3	
Chloroform	ND	ug/m3	37.2	37.6		08/31/11 21:39	67-66-3	
Chloromethane	ND	ug/m3	15.8	37.6		08/31/11 21:39	74-87-3	
Cyclohexane	ND	ug/m3	25.6	37.6		08/31/11 21:39	110-82-7	
Dibromochloromethane	ND	ug/m3	63.9	37.6		08/31/11 21:39	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/m3	60.2	37.6		08/31/11 21:39	106-93-4	
1,2-Dichlorobenzene	ND	ug/m3	45.1	37.6		08/31/11 21:39	95-50-1	
1,3-Dichlorobenzene	ND	ug/m3	45.1	37.6		08/31/11 21:39	541-73-1	
1,4-Dichlorobenzene	ND	ug/m3	45.1	37.6		08/31/11 21:39	106-46-7	
Dichlorodifluoromethane	ND	ug/m3	37.6	37.6		08/31/11 21:39	75-71-8	
1,1-Dichloroethane	ND	ug/m3	30.8	37.6		08/31/11 21:39	75-34-3	
1,2-Dichloroethane	ND	ug/m3	15.4	37.6		08/31/11 21:39	107-06-2	
1,1-Dichloroethene	ND	ug/m3	30.5	37.6		08/31/11 21:39	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	30.5	37.6		08/31/11 21:39	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	30.5	37.6		08/31/11 21:39	156-60-5	
1,2-Dichloropropane	ND	ug/m3	35.3	37.6		08/31/11 21:39	78-87-5	
cis-1,3-Dichloropropene	ND	ug/m3	34.6	37.6		08/31/11 21:39	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/m3	34.6	37.6		08/31/11 21:39	10061-02-6	
Dichlorotetrafluoroethane	ND	ug/m3	52.6	37.6		08/31/11 21:39	76-14-2	
Ethanol	121	ug/m3	71.4	37.6		08/31/11 21:39	64-17-5	SS
Ethyl acetate	ND	ug/m3	27.4	37.6		08/31/11 21:39	141-78-6	
Ethylbenzene	ND	ug/m3	33.1	37.6		08/31/11 21:39	100-41-4	
4-Ethyltoluene	ND	ug/m3	94.0	37.6		08/31/11 21:39	622-96-8	
n-Heptane	ND	ug/m3	31.2	37.6		08/31/11 21:39	142-82-5	
Hexachloro-1,3-butadiene	ND	ug/m3	82.7	37.6		08/31/11 21:39	87-68-3	
n-Hexane	ND	ug/m3	27.1	37.6		08/31/11 21:39	110-54-3	
2-Hexanone	ND	ug/m3	31.2	37.6		08/31/11 21:39	591-78-6	
Methylene Chloride	ND	ug/m3	26.7	37.6		08/31/11 21:39	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/m3	31.2	37.6		08/31/11 21:39	108-10-1	
Methyl-tert-butyl ether	ND	ug/m3	27.4	37.6		08/31/11 21:39	1634-04-4	
Naphthalene	ND	ug/m3	102	37.6		08/31/11 21:39	91-20-3	
2-Propanol	ND	ug/m3	94.0	37.6		08/31/11 21:39	67-63-0	
Propylene	ND	ug/m3	13.2	37.6		08/31/11 21:39	115-07-1	
Styrene	ND	ug/m3	32.7	37.6		08/31/11 21:39	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/m3	26.2	37.6		08/31/11 21:39	79-34-5	
Tetrachloroethene	ND	ug/m3	25.9	37.6		08/31/11 21:39	127-18-4	

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REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: CRC - City of Rochester

Pace Project No.: 10167944

Sample: DPE - EXHAUST - 0260		Lab ID: 10167944001	Collected: 08/28/11 17:00	Received: 08/29/11 13:56	Matrix: Air			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR		Analytical Method: TO-15						
Tetrahydrofuran	ND	ug/m3	22.6	37.6		08/31/11 21:39	109-99-9	
Toluene	ND	ug/m3	29.0	37.6		08/31/11 21:39	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/m3	37.2	37.6		08/31/11 21:39	120-82-1	
1,1,1-Trichloroethane	ND	ug/m3	41.4	37.6		08/31/11 21:39	71-55-6	
1,1,2-Trichloroethane	ND	ug/m3	20.7	37.6		08/31/11 21:39	79-00-5	
Trichloroethene	ND	ug/m3	20.7	37.6		08/31/11 21:39	79-01-6	
Trichlorofluoromethane	ND	ug/m3	41.4	37.6		08/31/11 21:39	75-69-4	
1,1,2-Trichlorotrifluoroethane	8150	ug/m3	60.2	37.6		08/31/11 21:39	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/m3	37.6	37.6		08/31/11 21:39	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/m3	37.6	37.6		08/31/11 21:39	108-67-8	
Vinyl acetate	ND	ug/m3	26.7	37.6		08/31/11 21:39	108-05-4	
Vinyl chloride	ND	ug/m3	9.8	37.6		08/31/11 21:39	75-01-4	
m&p-Xylene	ND	ug/m3	66.2	37.6		08/31/11 21:39	179601-23-1	
o-Xylene	ND	ug/m3	33.1	37.6		08/31/11 21:39	95-47-6	

QUALITY CONTROL DATA

Project: CRC - City of Rochester
Pace Project No.: 10167944

QC Batch: AIR/13042 Analysis Method: TO-15
QC Batch Method: TO-15 Analysis Description: TO15 MSV AIR Low Level
Associated Lab Samples: 10167944001

METHOD BLANK: 1045519 Matrix: Air
Associated Lab Samples: 10167944001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/m3	ND	1.1	08/31/11 10:46	
1,1,2,2-Tetrachloroethane	ug/m3	ND	0.70	08/31/11 10:46	
1,1,2-Trichloroethane	ug/m3	ND	0.55	08/31/11 10:46	
1,1,2-Trichlorotrifluoroethane	ug/m3	ND	1.6	08/31/11 10:46	
1,1-Dichloroethane	ug/m3	ND	0.82	08/31/11 10:46	
1,1-Dichloroethene	ug/m3	ND	0.81	08/31/11 10:46	
1,2,4-Trichlorobenzene	ug/m3	ND	0.99	08/31/11 10:46	
1,2,4-Trimethylbenzene	ug/m3	ND	1.0	08/31/11 10:46	
1,2-Dibromoethane (EDB)	ug/m3	ND	1.6	08/31/11 10:46	
1,2-Dichlorobenzene	ug/m3	ND	1.2	08/31/11 10:46	
1,2-Dichloroethane	ug/m3	ND	0.41	08/31/11 10:46	
1,2-Dichloropropane	ug/m3	ND	0.94	08/31/11 10:46	
1,3,5-Trimethylbenzene	ug/m3	ND	1.0	08/31/11 10:46	
1,3-Butadiene	ug/m3	ND	0.45	08/31/11 10:46	
1,3-Dichlorobenzene	ug/m3	ND	1.2	08/31/11 10:46	
1,4-Dichlorobenzene	ug/m3	ND	1.2	08/31/11 10:46	
2-Butanone (MEK)	ug/m3	ND	0.60	08/31/11 10:46	
2-Hexanone	ug/m3	ND	0.83	08/31/11 10:46	
2-Propanol	ug/m3	ND	2.5	08/31/11 10:46	
4-Ethyltoluene	ug/m3	ND	2.5	08/31/11 10:46	
4-Methyl-2-pentanone (MIBK)	ug/m3	ND	0.83	08/31/11 10:46	
Acetone	ug/m3	ND	0.48	08/31/11 10:46	
Benzene	ug/m3	ND	0.32	08/31/11 10:46	
Benzyl chloride	ug/m3	ND	1.0	08/31/11 10:46	
Bromodichloromethane	ug/m3	ND	1.4	08/31/11 10:46	
Bromoform	ug/m3	ND	2.1	08/31/11 10:46	
Bromomethane	ug/m3	ND	0.79	08/31/11 10:46	
Carbon disulfide	ug/m3	ND	0.63	08/31/11 10:46	
Carbon tetrachloride	ug/m3	ND	0.64	08/31/11 10:46	
Chlorobenzene	ug/m3	ND	0.94	08/31/11 10:46	
Chloroethane	ug/m3	ND	0.54	08/31/11 10:46	
Chloroform	ug/m3	ND	0.99	08/31/11 10:46	
Chloromethane	ug/m3	ND	0.42	08/31/11 10:46	
cis-1,2-Dichloroethene	ug/m3	ND	0.81	08/31/11 10:46	
cis-1,3-Dichloropropene	ug/m3	ND	0.92	08/31/11 10:46	
Cyclohexane	ug/m3	ND	0.68	08/31/11 10:46	
Dibromochloromethane	ug/m3	ND	1.7	08/31/11 10:46	
Dichlorodifluoromethane	ug/m3	ND	1.0	08/31/11 10:46	
Dichlorotetrafluoroethane	ug/m3	ND	1.4	08/31/11 10:46	
Ethanol	ug/m3	ND	1.9	08/31/11 10:46	
Ethyl acetate	ug/m3	ND	0.73	08/31/11 10:46	
Ethylbenzene	ug/m3	ND	0.88	08/31/11 10:46	
Hexachloro-1,3-butadiene	ug/m3	ND	2.2	08/31/11 10:46	

Date: 09/06/2011 02:58 PM

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: CRC - City of Rochester
Pace Project No.: 10167944

METHOD BLANK: 1045519 Matrix: Air

Associated Lab Samples: 10167944001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
m&p-Xylene	ug/m3	ND	1.8	08/31/11 10:46	
Methyl-tert-butyl ether	ug/m3	ND	0.73	08/31/11 10:46	
Methylene Chloride	ug/m3	ND	0.71	08/31/11 10:46	
n-Heptane	ug/m3	ND	0.83	08/31/11 10:46	
n-Hexane	ug/m3	ND	0.72	08/31/11 10:46	
Naphthalene	ug/m3	ND	2.7	08/31/11 10:46	
o-Xylene	ug/m3	ND	0.88	08/31/11 10:46	
Propylene	ug/m3	ND	0.35	08/31/11 10:46	
Styrene	ug/m3	ND	0.87	08/31/11 10:46	
Tetrachloroethene	ug/m3	ND	0.69	08/31/11 10:46	
Tetrahydrofuran	ug/m3	ND	0.60	08/31/11 10:46	
Toluene	ug/m3	ND	0.77	08/31/11 10:46	
trans-1,2-Dichloroethene	ug/m3	ND	0.81	08/31/11 10:46	
trans-1,3-Dichloropropene	ug/m3	ND	0.92	08/31/11 10:46	
Trichloroethene	ug/m3	ND	0.55	08/31/11 10:46	
Trichlorofluoromethane	ug/m3	ND	1.1	08/31/11 10:46	
Vinyl acetate	ug/m3	ND	0.71	08/31/11 10:46	
Vinyl chloride	ug/m3	ND	0.26	08/31/11 10:46	

LABORATORY CONTROL SAMPLE: 1045520

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/m3	55.5	59.9	108	66-133	
1,1,2,2-Tetrachloroethane	ug/m3	69.8	79.1	113	70-140	
1,1,2-Trichloroethane	ug/m3	55.5	63.0	114	68-132	
1,1,2-Trichlorotrifluoroethane	ug/m3	77.9	84.7	109	60-137	
1,1-Dichloroethane	ug/m3	41.2	45.5	110	65-131	
1,1-Dichloroethene	ug/m3	40.3	45.3	112	65-132	
1,2,4-Trichlorobenzene	ug/m3	75.5	86.2	114	30-150	
1,2,4-Trimethylbenzene	ug/m3	50	48.8	98	69-140	
1,2-Dibromoethane (EDB)	ug/m3	78.1	83.4	107	71-139	
1,2-Dichlorobenzene	ug/m3	61.2	65.0	106	68-139	
1,2-Dichloroethane	ug/m3	41.2	47.5	115	66-132	
1,2-Dichloropropane	ug/m3	47	52.7	112	69-130	
1,3,5-Trimethylbenzene	ug/m3	50	50.7	101	70-141	
1,3-Butadiene	ug/m3	22.5	25.1	112	68-128	
1,3-Dichlorobenzene	ug/m3	61.2	59.7	98	66-146	
1,4-Dichlorobenzene	ug/m3	61.2	66.0	108	66-142	
2-Butanone (MEK)	ug/m3	30	32.0	107	68-134	
2-Hexanone	ug/m3	41.7	42.0	101	70-144	
2-Propanol	ug/m3	23.8	25.9	109	66-139	
4-Ethyltoluene	ug/m3	50	55.4	111	65-145	
4-Methyl-2-pentanone (MIBK)	ug/m3	41.7	42.0	101	70-139	
Acetone	ug/m3	24.2	22.2	92	56-142	
Benzene	ug/m3	32.5	36.6	113	69-129	

Date: 09/06/2011 02:58 PM

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: CRC - City of Rochester

Pace Project No.: 10167944

LABORATORY CONTROL SAMPLE: 1045520

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Benzyl chloride	ug/m3	52.5	56.4	107	68-138	
Bromodichloromethane	ug/m3	68.2	75.6	111	70-130	
Bromoform	ug/m3	105	111	106	67-147	
Bromomethane	ug/m3	39.5	41.4	105	67-127	
Carbon disulfide	ug/m3	31.7	33.4	106	65-131	
Carbon tetrachloride	ug/m3	64	72.3	113	62-137	
Chlorobenzene	ug/m3	46.8	52.4	112	72-133	
Chloroethane	ug/m3	26.8	28.5	106	66-127	
Chloroform	ug/m3	49.7	54.3	109	67-130	
Chloromethane	ug/m3	21	22.0	105	63-127	
cis-1,2-Dichloroethene	ug/m3	40.3	45.4	113	69-130	
cis-1,3-Dichloropropene	ug/m3	46.2	49.2	107	74-137	
Cyclohexane	ug/m3	35	35.4	101	69-137	
Dibromochloromethane	ug/m3	86.6	91.4	106	69-140	
Dichlorodifluoromethane	ug/m3	50.3	54.6	109	62-131	
Dichlorotetrafluoroethane	ug/m3	71.1	76.6	108	63-130	
Ethanol	ug/m3	19.2	20.1	105	63-135 SS	
Ethyl acetate	ug/m3	36.6	36.4	99	70-135	
Ethylbenzene	ug/m3	44.2	48.1	109	71-141	
Hexachloro-1,3-butadiene	ug/m3	108	145	134	30-150 CH	
m&p-Xylene	ug/m3	88.3	99.9	113	68-144	
Methyl-tert-butyl ether	ug/m3	36.7	37.6	102	54-136	
Methylene Chloride	ug/m3	35.3	38.9	110	56-143	
n-Heptane	ug/m3	41.7	46.8	112	72-130	
n-Hexane	ug/m3	35.8	34.4	96	68-130	
Naphthalene	ug/m3	53.3	70.1	131	30-150 CH	
o-Xylene	ug/m3	44.2	49.6	112	70-141	
Propylene	ug/m3	17.5	17.8	102	61-139	
Styrene	ug/m3	43.3	47.0	109	68-145	
Tetrachloroethene	ug/m3	69	72.3	105	64-142	
Tetrahydrofuran	ug/m3	30	29.0	97	70-134 SS	
Toluene	ug/m3	38.3	41.1	107	69-133	
trans-1,2-Dichloroethene	ug/m3	40.3	43.4	108	64-132	
trans-1,3-Dichloropropene	ug/m3	46.2	46.9	102	71-140	
Trichloroethene	ug/m3	54.6	57.1	104	68-132	
Trichlorofluoromethane	ug/m3	57.1	62.1	109	59-136	
Vinyl acetate	ug/m3	35.8	33.2	93	70-142	
Vinyl chloride	ug/m3	26	28.2	108	64-129	

QUALIFIERS

Project: CRC - City of Rochester

Pace Project No.: 10167944

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

- | | |
|----|--|
| CH | The continuing calibration for this compound is outside of Pace Analytical acceptance limits. The results may be biased high. |
| SS | This analyte did not meet the secondary source verification criteria for the initial calibration. The reported result should be considered an estimated value. |

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: CRC - City of Rochester

Pace Project No.: 10167944

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10167944001	DPE - EXHAUST - 0260	TO-15	AIR/13042		



CHAIN-OF-CUSTODY / Analytical Request Document

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

10167944

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

ITEM #	Section D Required Client Information		COLLECTED		DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
	MATRIX	CODE	MATRIX TYPE	SAMPLE TEMP AT COLLECTION						
1	DRINKING WATER	02	A	8/28/11	11:10	8/28/11	17:00			
2	WASTE WATER	01	C							
3	WASTE WATER	02								
4	WASTE WATER	03								
5	WASTE WATER	04								
6	WASTE WATER	05								
7	WASTE WATER	06								
8	WASTE WATER	07								

Additional Comments:

12 of 13

RELINQUISHED BY / AFFILIATION: *Eric Gabrielson* / *City of Rochester* DATE: *8/28/11* TIME: *13:56* ACCEPTED BY / AFFILIATION: *[Signature]* / *[Affiliation]* DATE: *8/29/11* TIME: *13:56* SAMPLE CONDITIONS: *Y/N*

SAMPLER NAME AND SIGNATURE: *Eric Gabrielson* DATE SIGNED (MM/DD/YY): *8/29/11*

PRINT Name of SAMPLER: *Eric Gabrielson*

SIGNATURE of SAMPLER: *[Signature]*

Temp in °C: *Y/N*

Received on Ice: *Y/N*

Custody Sealed Cooler: *Y/N*

Samples Intact: *Y/N*



AIR Sample Condition Upon Receipt

Client Name: LANDMARK

Project # 10167944

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 Form

Original
Proj. Due Date
Proj. Name

Tracking #: _____

Comments:

Date and Initials of person examining contents: 8-29-11 (B)

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

Samples Received: 2 CANS 2 FE

Canisters		Flow Controllers		Stand Alone G		Tedlar Bags	
Sample Number	Can ID	Sample Number	Can ID	Sample Number	Can ID	Sample Number	Can ID
<u>DPE</u>	<u>0260</u>		<u>0334</u>				
	<u>0716</u>		<u>0237</u>				

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

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: C. D. Nut

Date: 8/30/11

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)

October 07, 2011

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

RE: Project: CRC
Pace Project No.: 10171193

Dear Mr. Skramstad:

Enclosed are the analytical results for sample(s) received by the laboratory on September 30, 2011. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards, where applicable, unless otherwise narrated in the body of the report.

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

Sincerely,



Carolynne Trout

carolynne.trout@pacelabs.com
Project Manager

Enclosures



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: CRC
Pace Project No.: 10171193

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

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: CRC
Pace Project No.: 10171193

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10171193001	EXHAUST (#1214)	Air	09/29/11 17:33	09/30/11 15:18

REPORT OF LABORATORY ANALYSIS

SAMPLE ANALYTE COUNT

Project: CRC
Pace Project No.: 10171193

Lab ID	Sample ID	Method	Analysts	Analytes Reported
10171193001	EXHAUST (#1214)	TO-15	CJR	61

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: CRC
Pace Project No.: 10171193

Sample: EXHAUST (#1214)	Lab ID: 10171193001	Collected: 09/29/11 17:33	Received: 09/30/11 15:18	Matrix: Air				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR		Analytical Method: TO-15						
Acetone	58.3	ug/m3	14.8	30.8		10/05/11 00:24	67-64-1	
Benzene	ND	ug/m3	10.0	30.8		10/05/11 00:24	71-43-2	
Benzyl chloride	ND	ug/m3	32.3	30.8		10/05/11 00:24	100-44-7	
Bromodichloromethane	ND	ug/m3	43.1	30.8		10/05/11 00:24	75-27-4	
Bromoform	ND	ug/m3	64.7	30.8		10/05/11 00:24	75-25-2	
Bromomethane	ND	ug/m3	24.3	30.8		10/05/11 00:24	74-83-9	
1,3-Butadiene	ND	ug/m3	13.9	30.8		10/05/11 00:24	106-99-0	
2-Butanone (MEK)	80.1	ug/m3	18.5	30.8		10/05/11 00:24	78-93-3	
Carbon disulfide	ND	ug/m3	19.4	30.8		10/05/11 00:24	75-15-0	
Carbon tetrachloride	ND	ug/m3	19.7	30.8		10/05/11 00:24	56-23-5	
Chlorobenzene	ND	ug/m3	29.0	30.8		10/05/11 00:24	108-90-7	
Chloroethane	ND	ug/m3	16.6	30.8		10/05/11 00:24	75-00-3	
Chloroform	ND	ug/m3	30.5	30.8		10/05/11 00:24	67-66-3	
Chloromethane	ND	ug/m3	12.9	30.8		10/05/11 00:24	74-87-3	
Cyclohexane	ND	ug/m3	20.9	30.8		10/05/11 00:24	110-82-7	
Dibromochloromethane	ND	ug/m3	52.4	30.8		10/05/11 00:24	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/m3	49.3	30.8		10/05/11 00:24	106-93-4	
1,2-Dichlorobenzene	ND	ug/m3	37.0	30.8		10/05/11 00:24	95-50-1	
1,3-Dichlorobenzene	ND	ug/m3	37.0	30.8		10/05/11 00:24	541-73-1	
1,4-Dichlorobenzene	ND	ug/m3	37.0	30.8		10/05/11 00:24	106-46-7	
Dichlorodifluoromethane	ND	ug/m3	30.8	30.8		10/05/11 00:24	75-71-8	
1,1-Dichloroethane	ND	ug/m3	25.3	30.8		10/05/11 00:24	75-34-3	
1,2-Dichloroethane	ND	ug/m3	12.6	30.8		10/05/11 00:24	107-06-2	
1,1-Dichloroethene	ND	ug/m3	24.9	30.8		10/05/11 00:24	75-35-4	
cis-1,2-Dichloroethene	49.1	ug/m3	24.9	30.8		10/05/11 00:24	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	24.9	30.8		10/05/11 00:24	156-60-5	
1,2-Dichloropropane	ND	ug/m3	29.0	30.8		10/05/11 00:24	78-87-5	
cis-1,3-Dichloropropene	ND	ug/m3	28.3	30.8		10/05/11 00:24	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/m3	28.3	30.8		10/05/11 00:24	10061-02-6	
Dichlorotetrafluoroethane	ND	ug/m3	43.1	30.8		10/05/11 00:24	76-14-2	
Ethanol	ND	ug/m3	58.5	30.8		10/05/11 00:24	64-17-5	
Ethyl acetate	ND	ug/m3	22.5	30.8		10/05/11 00:24	141-78-6	
Ethylbenzene	ND	ug/m3	27.1	30.8		10/05/11 00:24	100-41-4	
4-Ethyltoluene	ND	ug/m3	77.0	30.8		10/05/11 00:24	622-96-8	
n-Heptane	ND	ug/m3	25.6	30.8		10/05/11 00:24	142-82-5	
Hexachloro-1,3-butadiene	ND	ug/m3	67.8	30.8		10/05/11 00:24	87-68-3	
n-Hexane	ND	ug/m3	22.2	30.8		10/05/11 00:24	110-54-3	
2-Hexanone	ND	ug/m3	25.6	30.8		10/05/11 00:24	591-78-6	
Methylene Chloride	ND	ug/m3	21.9	30.8		10/05/11 00:24	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/m3	25.6	30.8		10/05/11 00:24	108-10-1	
Methyl-tert-butyl ether	ND	ug/m3	22.5	30.8		10/05/11 00:24	1634-04-4	
Naphthalene	ND	ug/m3	83.2	30.8		10/05/11 00:24	91-20-3	
2-Propanol	ND	ug/m3	77.0	30.8		10/05/11 00:24	67-63-0	
Propylene	ND	ug/m3	10.8	30.8		10/05/11 00:24	115-07-1	
Styrene	ND	ug/m3	26.8	30.8		10/05/11 00:24	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/m3	21.5	30.8		10/05/11 00:24	79-34-5	
Tetrachloroethene	3420	ug/m3	21.2	30.8		10/05/11 00:24	127-18-4	

Date: 10/07/2011 05:13 PM

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: CRC
Pace Project No.: 10171193

Sample: EXHAUST (#1214)		Lab ID: 10171193001	Collected: 09/29/11 17:33	Received: 09/30/11 15:18	Matrix: Air			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR		Analytical Method: TO-15						
Tetrahydrofuran	ND	ug/m3	18.5	30.8		10/05/11 00:24	109-99-9	
Toluene	29.6	ug/m3	23.7	30.8		10/05/11 00:24	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/m3	30.5	30.8		10/05/11 00:24	120-82-1	
1,1,1-Trichloroethane	ND	ug/m3	33.9	30.8		10/05/11 00:24	71-55-6	
1,1,2-Trichloroethane	ND	ug/m3	16.9	30.8		10/05/11 00:24	79-00-5	
Trichloroethene	22.2	ug/m3	16.9	30.8		10/05/11 00:24	79-01-6	
Trichlorofluoromethane	ND	ug/m3	33.9	30.8		10/05/11 00:24	75-69-4	
1,1,2-Trichlorotrifluoroethane	103000	ug/m3	788	492.8		10/06/11 04:41	76-13-1	A3
1,2,4-Trimethylbenzene	50.5	ug/m3	30.8	30.8		10/05/11 00:24	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/m3	30.8	30.8		10/05/11 00:24	108-67-8	
Vinyl acetate	ND	ug/m3	21.9	30.8		10/05/11 00:24	108-05-4	
Vinyl chloride	ND	ug/m3	8.0	30.8		10/05/11 00:24	75-01-4	
m&p-Xylene	ND	ug/m3	54.2	30.8		10/05/11 00:24	179601-23-1	
o-Xylene	ND	ug/m3	27.1	30.8		10/05/11 00:24	95-47-6	

QUALITY CONTROL DATA

Project: CRC
Pace Project No.: 10171193

QC Batch: AIR/13263 Analysis Method: TO-15
QC Batch Method: TO-15 Analysis Description: TO15 MSV AIR Low Level
Associated Lab Samples: 10171193001

METHOD BLANK: 1067016 Matrix: Air
Associated Lab Samples: 10171193001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/m3	ND	1.1	10/04/11 16:27	
1,1,2,2-Tetrachloroethane	ug/m3	ND	0.70	10/04/11 16:27	
1,1,2-Trichloroethane	ug/m3	ND	0.55	10/04/11 16:27	
1,1,2-Trichlorotrifluoroethane	ug/m3	ND	1.6	10/04/11 16:27	
1,1-Dichloroethane	ug/m3	ND	0.82	10/04/11 16:27	
1,1-Dichloroethene	ug/m3	ND	0.81	10/04/11 16:27	
1,2,4-Trichlorobenzene	ug/m3	ND	0.99	10/04/11 16:27	
1,2,4-Trimethylbenzene	ug/m3	ND	1.0	10/04/11 16:27	
1,2-Dibromoethane (EDB)	ug/m3	ND	1.6	10/04/11 16:27	
1,2-Dichlorobenzene	ug/m3	ND	1.2	10/04/11 16:27	
1,2-Dichloroethane	ug/m3	ND	0.41	10/04/11 16:27	
1,2-Dichloropropane	ug/m3	ND	0.94	10/04/11 16:27	
1,3,5-Trimethylbenzene	ug/m3	ND	1.0	10/04/11 16:27	
1,3-Butadiene	ug/m3	ND	0.45	10/04/11 16:27	
1,3-Dichlorobenzene	ug/m3	ND	1.2	10/04/11 16:27	
1,4-Dichlorobenzene	ug/m3	ND	1.2	10/04/11 16:27	
2-Butanone (MEK)	ug/m3	ND	0.60	10/04/11 16:27	
2-Hexanone	ug/m3	ND	0.83	10/04/11 16:27	
2-Propanol	ug/m3	ND	2.5	10/04/11 16:27	
4-Ethyltoluene	ug/m3	ND	2.5	10/04/11 16:27	
4-Methyl-2-pentanone (MIBK)	ug/m3	ND	0.83	10/04/11 16:27	
Acetone	ug/m3	ND	0.48	10/04/11 16:27	
Benzene	ug/m3	ND	0.32	10/04/11 16:27	
Benzyl chloride	ug/m3	ND	1.0	10/04/11 16:27	
Bromodichloromethane	ug/m3	ND	1.4	10/04/11 16:27	
Bromoform	ug/m3	ND	2.1	10/04/11 16:27	
Bromomethane	ug/m3	ND	0.79	10/04/11 16:27	
Carbon disulfide	ug/m3	ND	0.63	10/04/11 16:27	
Carbon tetrachloride	ug/m3	ND	0.64	10/04/11 16:27	
Chlorobenzene	ug/m3	ND	0.94	10/04/11 16:27	
Chloroethane	ug/m3	ND	0.54	10/04/11 16:27	
Chloroform	ug/m3	ND	0.99	10/04/11 16:27	
Chloromethane	ug/m3	ND	0.42	10/04/11 16:27	
cis-1,2-Dichloroethene	ug/m3	ND	0.81	10/04/11 16:27	
cis-1,3-Dichloropropene	ug/m3	ND	0.92	10/04/11 16:27	
Cyclohexane	ug/m3	ND	0.68	10/04/11 16:27	
Dibromochloromethane	ug/m3	ND	1.7	10/04/11 16:27	
Dichlorodifluoromethane	ug/m3	ND	1.0	10/04/11 16:27	
Dichlorotetrafluoroethane	ug/m3	ND	1.4	10/04/11 16:27	
Ethanol	ug/m3	ND	1.9	10/04/11 16:27	
Ethyl acetate	ug/m3	ND	0.73	10/04/11 16:27	
Ethylbenzene	ug/m3	ND	0.88	10/04/11 16:27	
Hexachloro-1,3-butadiene	ug/m3	ND	2.2	10/04/11 16:27	

Date: 10/07/2011 05:13 PM

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: CRC
Pace Project No.: 10171193

METHOD BLANK: 1067016 Matrix: Air

Associated Lab Samples: 10171193001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
m&p-Xylene	ug/m3	ND	1.8	10/04/11 16:27	
Methyl-tert-butyl ether	ug/m3	ND	0.73	10/04/11 16:27	
Methylene Chloride	ug/m3	ND	0.71	10/04/11 16:27	
n-Heptane	ug/m3	ND	0.83	10/04/11 16:27	
n-Hexane	ug/m3	ND	0.72	10/04/11 16:27	
Naphthalene	ug/m3	ND	2.7	10/04/11 16:27	
o-Xylene	ug/m3	ND	0.88	10/04/11 16:27	
Propylene	ug/m3	ND	0.35	10/04/11 16:27	
Styrene	ug/m3	ND	0.87	10/04/11 16:27	
Tetrachloroethene	ug/m3	ND	0.69	10/04/11 16:27	
Tetrahydrofuran	ug/m3	ND	0.60	10/04/11 16:27	
Toluene	ug/m3	ND	0.77	10/04/11 16:27	
trans-1,2-Dichloroethene	ug/m3	ND	0.81	10/04/11 16:27	
trans-1,3-Dichloropropene	ug/m3	ND	0.92	10/04/11 16:27	
Trichloroethene	ug/m3	ND	0.55	10/04/11 16:27	
Trichlorofluoromethane	ug/m3	ND	1.1	10/04/11 16:27	
Vinyl acetate	ug/m3	ND	0.71	10/04/11 16:27	
Vinyl chloride	ug/m3	ND	0.26	10/04/11 16:27	

LABORATORY CONTROL SAMPLE: 1067017

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/m3	55.5	58.0	105	66-133	
1,1,2,2-Tetrachloroethane	ug/m3	69.8	74.1	106	70-140	
1,1,2-Trichloroethane	ug/m3	55.5	57.5	104	68-132	
1,1,2-Trichlorotrifluoroethane	ug/m3	77.9	82.8	106	60-137	
1,1-Dichloroethane	ug/m3	41.2	44.1	107	65-131	
1,1-Dichloroethene	ug/m3	40.3	42.4	105	65-132	
1,2,4-Trichlorobenzene	ug/m3	75.5	74.1	98	30-150	
1,2,4-Trimethylbenzene	ug/m3	50	52.9	106	69-140	
1,2-Dibromoethane (EDB)	ug/m3	78.1	81.5	104	71-139	
1,2-Dichlorobenzene	ug/m3	61.2	61.9	101	68-139	
1,2-Dichloroethane	ug/m3	41.2	43.1	105	66-132	
1,2-Dichloropropane	ug/m3	47	50.6	108	69-130	
1,3,5-Trimethylbenzene	ug/m3	50	52.7	105	70-141	
1,3-Butadiene	ug/m3	22.5	24.3	108	68-128	
1,3-Dichlorobenzene	ug/m3	61.2	62.7	103	66-146	
1,4-Dichlorobenzene	ug/m3	61.2	62.1	102	66-142	
2-Butanone (MEK)	ug/m3	30	31.2	104	68-134	
2-Hexanone	ug/m3	41.7	43.9	105	70-144	
2-Propanol	ug/m3	23.8	29.0	122	66-139	
4-Ethyltoluene	ug/m3	50	51.9	104	65-145	
4-Methyl-2-pentanone (MIBK)	ug/m3	41.7	43.9	105	70-139	
Acetone	ug/m3	24.2	26.5	110	56-142	
Benzene	ug/m3	32.5	35.4	109	69-129	

Date: 10/07/2011 05:13 PM

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: CRC
Pace Project No.: 10171193

LABORATORY CONTROL SAMPLE: 1067017

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Benzyl chloride	ug/m3	52.5	52.3	100	68-138	
Bromodichloromethane	ug/m3	68.2	70.7	104	70-130	
Bromoform	ug/m3	105	107	101	67-147	
Bromomethane	ug/m3	39.5	42.1	107	67-127	SS
Carbon disulfide	ug/m3	31.7	33.6	106	65-131	SS
Carbon tetrachloride	ug/m3	64	68.3	107	62-137	
Chlorobenzene	ug/m3	46.8	49.2	105	72-133	
Chloroethane	ug/m3	26.8	29.7	111	66-127	SS
Chloroform	ug/m3	49.7	51.6	104	67-130	
Chloromethane	ug/m3	21	24.0	114	63-127	
cis-1,2-Dichloroethene	ug/m3	40.3	42.6	106	69-130	
cis-1,3-Dichloropropene	ug/m3	46.2	48.9	106	74-137	
Cyclohexane	ug/m3	35	40.5	116	69-137	
Dibromochloromethane	ug/m3	86.6	89.1	103	69-140	
Dichlorodifluoromethane	ug/m3	50.3	52.7	105	62-131	
Dichlorotetrafluoroethane	ug/m3	71.1	76.6	108	63-130	
Ethanol	ug/m3	19.2	20.7	108	63-135	SS
Ethyl acetate	ug/m3	36.6	40.3	110	70-135	
Ethylbenzene	ug/m3	44.2	47.6	108	71-141	
Hexachloro-1,3-butadiene	ug/m3	108	114	105	30-150	
m&p-Xylene	ug/m3	88.3	96.9	110	68-144	
Methyl-tert-butyl ether	ug/m3	36.7	46.5	127	54-136	
Methylene Chloride	ug/m3	35.3	38.5	109	56-143	
n-Heptane	ug/m3	41.7	46.5	112	72-130	
n-Hexane	ug/m3	35.8	36.8	103	68-130	
Naphthalene	ug/m3	53.3	56.2	105	30-150	SS
o-Xylene	ug/m3	44.2	47.3	107	70-141	
Propylene	ug/m3	17.5	19.7	112	61-139	
Styrene	ug/m3	43.3	45.6	105	68-145	
Tetrachloroethene	ug/m3	69	71.8	104	64-142	
Tetrahydrofuran	ug/m3	30	31.5	105	70-134	SS
Toluene	ug/m3	38.3	40.1	105	69-133	
trans-1,2-Dichloroethene	ug/m3	40.3	42.7	106	64-132	
trans-1,3-Dichloropropene	ug/m3	46.2	46.7	101	71-140	
Trichloroethene	ug/m3	54.6	56.7	104	68-132	
Trichlorofluoromethane	ug/m3	57.1	59.2	104	59-136	
Vinyl acetate	ug/m3	35.8	39.3	110	70-142	
Vinyl chloride	ug/m3	26	28.3	109	64-129	

QUALIFIERS

Project: CRC
Pace Project No.: 10171193

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: 10171193001

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

ANALYTE QUALIFIERS

A3 The sample was analyzed by serial dilution.

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

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: CRC
Pace Project No.: 10171193

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10171193001	EXHAUST (#1214)	TO-15	AIR/13263		

Pace Analytical Services

TENTATIVELY IDENTIFIED COMPOUNDS

Client Name:
 Lab Smp Id: 10171193001
 Operator : CJR
 Sample Location:
 Sample Matrix: AIR
 Analysis Type: VOA
 Inj Date: 05-OCT-2011 00:24

Client SDG: 100411.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	2.937	4260	J
2.	Unknown	3.274	29.3	J
3. 354-23-4	Ethane, 1,2-dichloro-1,1,2-	3.718	19.5	NJ
4.	Unknown	3.901	36.0	J
5.	Unknown	9.991	3.30	J
6.	Unknown	14.057	6.21	J
7.	Unknown	16.809	3.28	J
8.	Unknown	17.296	2.71	J
9.	Unknown	17.571	3.32	J
10.	Unknown	17.721	4.83	J

Pace Analytical Services

TO15 Analysis (UNIX)

Data file : \\192.168.10.12\chem\10airD.i\100411.b\27730.D
 Lab Smp Id: 10171193001
 Inj Date : 05-OCT-2011 00:24
 Operator : CJR Inst ID: 10airD.i
 Smp Info :
 Misc Info : 13263
 Comment : Volatile Organic COMPOUNDS in Air
 Method : \\192.168.10.12\chem\10airD.i\100411.b\TO15 277-11.m
 Meth Date : 05-Oct-2011 12:33 apeterson Quant Type: ISTD
 Cal Date : 04-OCT-2011 13:01 Cal File: 27708.D
 Als bottle: 30
 Dil Factor: 30.80000
 Integrator: HP RTE Compound Sublist: all.sub
 Target Version: 4.14
 Processing Host: 10AIRGROUP

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	30.800	Dilution Factor
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

COMPOUND	RT	AREA	AMOUNT
13 Acetone	3.849	77104	0.784
* 56 Chlorobenzene - d5	9.909	2791073	10.000
\$ 72 1,4-dichlorobenzene-d4	13.694	2290222	8.272

RT	AREA	CONCENTRATIONS		QUAL	QUANT		
		ON-COL(ppbv)	FINAL(ppbv)		LIBRARY	LIB ENTRY	CPND #
Unknown					CAS #:		
2.937	13622283	138.425838	4260	0		0	13
Unknown					CAS #:		
3.274	93606	0.95119554	29.3	0		0	13
Ethane, 1,2-dichloro-1,1,2-trifluoro-					CAS #: 354-23-4		
3.718	62323	0.63330740	19.5	95	NBS75K.1	10049	13
Unknown					CAS #:		
3.901	115062	1.16922692	36.0	0		0	13

RT	CONCENTRATIONS			QUAL	QUANT		CPND #
	AREA	ON-COL(ppbv)	FINAL(ppbv)		LIBRARY	LIB ENTRY	
====	====	=====	=====	====	=====	=====	=====
Unknown					CAS #:		
9.991	29910	0.10716232	3.30	0		0	56
Unknown					CAS #:		
14.057	55811	0.20159075	6.21	0		0	72
Unknown					CAS #:		
16.809	29471	0.10644890	3.28	0		0	72
Unknown					CAS #:		
17.296	24371	0.08802968	2.71	0		0	72
Unknown					CAS #:		
17.571	29857	0.10784476	3.32	0		0	72
Unknown					CAS #:		
17.721	43459	0.15697578	4.83	0		0	72



AIR: CHAIN-OF-CUSTODY / Analytical Request Document

10171193

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

Section A Required Client Information: Company: LANDMARK Address: _____		Section B Required Project Information: Report To: JASON SKAMSTAD Copy To: _____		Section C Invoice Information: Attention: SALON PARADISE Company Name: LANDMARK Address: _____		05732 Page: 1 of 1	
Email To: JASON SKAMSTAD Phone: 612-887-9601 Fax: _____ Requested Due Date/TAT: STO		Purchase Order No.: CAC Project Name: CAC Project Number: CAC		Pace Quote Reference: _____ Pace Project Manager/Sales Rep. _____ Pace Profile #: _____		Program <input type="checkbox"/> UST Superfund Emissions <input type="checkbox"/> Clean Air Act <input type="checkbox"/> Voluntary Clean Up <input type="checkbox"/> Dry Clean <input type="checkbox"/> RCRA <input type="checkbox"/> Other _____	
Section D Required Client Information AIR SAMPLE ID Sample IDs MUST BE UNIQUE		Valid Media Codes MEDIA CODE TB 1 Liter Summa Can 1LC 6 Liter Summa Can 6LC Low Volume Puff LVP High Volume Puff HVP Other PM10		COLLECTED MEDIA CODE PID Reading (Client only)		Reporting Units ug/m ³ <input checked="" type="checkbox"/> mg/m ³ PPMV _____ Other _____	
EXHAUST (#1214)		DATE TIME DATE TIME COMPOSITE START COMPOSITE - END/GRAB		Canister Pressure (Initial Field) _____ Canister Pressure (Final Field) _____ Summa Can Number _____ Flow Control Number _____		Report Level II. III. IV. Other _____ Method: _____ PM10 3C-Fixed Gas (%) TO-3 TO-3M (Methane) TO-4 (PCBs) TO-13 (PAH) TO-14 TO-15 Short List Pace Lab ID 10171193001	
# ITEM		RELINQUISHED BY / AFFILIATION JASON SKAMSTAD / LANDMARK		ACCEPTED BY / AFFILIATION Jason Skamstad / Landmark		SAMPLE CONDITIONS Temp in °C _____ Received on Ice Y/N _____ Custody Sealed Cooler Y/N _____ Samples Intact Y/N _____	
Comments:		DATE TIME 9/30/11 1300		DATE TIME 9/30/11 15:18		SIGNATURE OF SAMPLER: JASON SKAMSTAD SIGNATURE OF SAMPLER: Jason Skamstad DATE SIGNED (MM/DD/YY): 9/30/11	

ORIGINAL

AIR Sample Condition Upon Receipt



Client Name: LANDMARK Project # 10171193

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 _____

Optional
 Proj. Due Date
 Proj. Name

Tracking #: _____

Comments:

Date and Initials of person examining contents: 9-30-11 JK

Chain of Custody Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Chain of Custody Filled Out:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.
Chain of Custody Relinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.
Sampler Name & Signature on COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.
Samples Arrived within Hold Time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5.
Short Hold Time Analysis (<72hr):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	6.
Rush Turn Around Time Requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	7.
Sufficient Volume:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	8.
Correct Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.
-Pace Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Containers Intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	10.
Media: <u>ARR (CAN)</u>		11.
Sample Labels match COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> 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
<u>EXHAUST</u>	<u>1214</u>		<u>FC0073</u>				

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

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: awo **Date:** 10/3/11

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)

October 10, 2011

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

RE: Project: CRC
Pace Project No.: 10171200

Dear Mr. Skramstad:

Enclosed are the analytical results for sample(s) received by the laboratory on September 30, 2011. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards, where applicable, unless otherwise narrated in the body of the report.

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

Sincerely,



Carolynne Trout

carolynne.trout@pacelabs.com
Project Manager

Enclosures



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: CRC
Pace Project No.: 10171200

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

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: CRC
Pace Project No.: 10171200

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10171200001	AS INFLUENT	Water	09/29/11 12:38	09/30/11 15:18
10171200002	AS EFFLUENT	Water	09/29/11 12:45	09/30/11 15:18

REPORT OF LABORATORY ANALYSIS

SAMPLE ANALYTE COUNT

Project: CRC
Pace Project No.: 10171200

Lab ID	Sample ID	Method	Analysts	Analytes Reported
10171200001	AS INFLUENT	EPA 624	ECB	82
10171200002	AS EFFLUENT	EPA 624	ECB	82

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: CRC
Pace Project No.: 10171200

Sample: AS INFLUENT		Lab ID: 10171200001	Collected: 09/29/11 12:38	Received: 09/30/11 15:18	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		10/07/11 18:31	67-64-1	
Acrolein	ND	ug/L	10.0	1		10/07/11 18:31	107-02-8	
Acrylonitrile	ND	ug/L	10.0	1		10/07/11 18:31	107-13-1	
Allyl chloride	ND	ug/L	4.0	1		10/07/11 18:31	107-05-1	
Benzene	ND	ug/L	1.0	1		10/07/11 18:31	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		10/07/11 18:31	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		10/07/11 18:31	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		10/07/11 18:31	75-27-4	
Bromoform	ND	ug/L	4.0	1		10/07/11 18:31	75-25-2	
Bromomethane	ND	ug/L	4.0	1		10/07/11 18:31	74-83-9	
2-Butanone (MEK)	ND	ug/L	4.0	1		10/07/11 18:31	78-93-3	
n-Butylbenzene	ND	ug/L	1.0	1		10/07/11 18:31	104-51-8	
sec-Butylbenzene	ND	ug/L	1.0	1		10/07/11 18:31	135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	1		10/07/11 18:31	98-06-6	
Carbon disulfide	ND	ug/L	1.0	1		10/07/11 18:31	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	1		10/07/11 18:31	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		10/07/11 18:31	108-90-7	
Chloroethane	ND	ug/L	1.0	1		10/07/11 18:31	75-00-3	
2-Chloroethylvinyl ether	ND	ug/L	10.0	1		10/07/11 18:31	110-75-8	
Chloroform	ND	ug/L	1.0	1		10/07/11 18:31	67-66-3	
Chloromethane	ND	ug/L	4.0	1		10/07/11 18:31	74-87-3	
Chloroprene	ND	ug/L	1.0	1		10/07/11 18:31	126-99-8	
2-Chlorotoluene	ND	ug/L	1.0	1		10/07/11 18:31	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		10/07/11 18:31	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	4.0	1		10/07/11 18:31	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		10/07/11 18:31	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		10/07/11 18:31	106-93-4	
Dibromomethane	ND	ug/L	4.0	1		10/07/11 18:31	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		10/07/11 18:31	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		10/07/11 18:31	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		10/07/11 18:31	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		10/07/11 18:31	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		10/07/11 18:31	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		10/07/11 18:31	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		10/07/11 18:31	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		10/07/11 18:31	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	4.0	1		10/07/11 18:31	156-60-5	
Dichlorofluoromethane	ND	ug/L	1.0	1		10/07/11 18:31	75-43-4	
1,2-Dichloropropane	ND	ug/L	4.0	1		10/07/11 18:31	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		10/07/11 18:31	142-28-9	
2,2-Dichloropropane	ND	ug/L	4.0	1		10/07/11 18:31	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		10/07/11 18:31	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	4.0	1		10/07/11 18:31	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	4.0	1		10/07/11 18:31	10061-02-6	
Diethyl ether (Ethyl ether)	ND	ug/L	4.0	1		10/07/11 18:31	60-29-7	
Ethylbenzene	ND	ug/L	1.0	1		10/07/11 18:31	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	5.0	1		10/07/11 18:31	87-68-3	

Date: 10/10/2011 04:45 PM

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: CRC
Pace Project No.: 10171200

Sample: AS INFLUENT	Lab ID: 10171200001	Collected: 09/29/11 12:38	Received: 09/30/11 15:18	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
624 MSV		Analytical Method: EPA 624						
2-Hexanone	ND ug/L		4.0	1		10/07/11 18:31	591-78-6	
Iodomethane	ND ug/L		4.0	1		10/07/11 18:31	74-88-4	
Isopropylbenzene (Cumene)	ND ug/L		1.0	1		10/07/11 18:31	98-82-8	
p-Isopropyltoluene	ND ug/L		1.0	1		10/07/11 18:31	99-87-6	
Methylene Chloride	ND ug/L		4.0	1		10/07/11 18:31	75-09-2	
2-Methylnaphthalene	ND ug/L		5.0	1		10/07/11 18:31	91-57-6	
4-Methyl-2-pentanone (MIBK)	ND ug/L		4.0	1		10/07/11 18:31	108-10-1	
Methyl-tert-butyl ether	ND ug/L		1.0	1		10/07/11 18:31	1634-04-4	
Naphthalene	ND ug/L		4.0	1		10/07/11 18:31	91-20-3	
n-Propylbenzene	ND ug/L		1.0	1		10/07/11 18:31	103-65-1	
Styrene	ND ug/L		1.0	1		10/07/11 18:31	100-42-5	
1,1,1,2-Tetrachloroethane	ND ug/L		1.0	1		10/07/11 18:31	630-20-6	
1,1,2,2-Tetrachloroethane	ND ug/L		1.0	1		10/07/11 18:31	79-34-5	
Tetrachloroethene	45.1 ug/L		1.0	1		10/07/11 18:31	127-18-4	
Tetrahydrofuran	ND ug/L		10.0	1		10/07/11 18:31	109-99-9	
Toluene	ND ug/L		1.0	1		10/07/11 18:31	108-88-3	
1,2,3-Trichlorobenzene	ND ug/L		1.0	1		10/07/11 18:31	87-61-6	
1,2,4-Trichlorobenzene	ND ug/L		1.0	1		10/07/11 18:31	120-82-1	
1,1,1-Trichloroethane	ND ug/L		1.0	1		10/07/11 18:31	71-55-6	
1,1,2-Trichloroethane	ND ug/L		1.0	1		10/07/11 18:31	79-00-5	
Trichloroethene	ND ug/L		1.0	1		10/07/11 18:31	79-01-6	
Trichlorofluoromethane	ND ug/L		1.0	1		10/07/11 18:31	75-69-4	
1,2,3-Trichloropropane	ND ug/L		4.0	1		10/07/11 18:31	96-18-4	
1,1,2-Trichlorotrifluoroethane	ND ug/L		1.0	1		10/07/11 18:31	76-13-1	
1,2,4-Trimethylbenzene	ND ug/L		1.0	1		10/07/11 18:31	95-63-6	
1,3,5-Trimethylbenzene	ND ug/L		1.0	1		10/07/11 18:31	108-67-8	
Vinyl acetate	ND ug/L		10.0	1		10/07/11 18:31	108-05-4	
Vinyl chloride	ND ug/L		0.40	1		10/07/11 18:31	75-01-4	
Xylene (Total)	ND ug/L		3.0	1		10/07/11 18:31	1330-20-7	
m&p-Xylene	ND ug/L		2.0	1		10/07/11 18:31	179601-23-1	
o-Xylene	ND ug/L		1.0	1		10/07/11 18:31	95-47-6	
Dibromofluoromethane (S)	101 %		75-125	1		10/07/11 18:31	1868-53-7	
4-Bromofluorobenzene (S)	100 %		75-125	1		10/07/11 18:31	460-00-4	
Toluene-d8 (S)	99 %		75-125	1		10/07/11 18:31	2037-26-5	
1,2-Dichloroethane-d4 (S)	101 %		75-125	1		10/07/11 18:31	17060-07-0	

ANALYTICAL RESULTS

Project: CRC
Pace Project No.: 10171200

Sample: AS EFFLUENT		Lab ID: 10171200002	Collected: 09/29/11 12:45	Received: 09/30/11 15:18	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		10/07/11 18:48	67-64-1	
Acrolein	ND	ug/L	10.0	1		10/07/11 18:48	107-02-8	
Acrylonitrile	ND	ug/L	10.0	1		10/07/11 18:48	107-13-1	
Allyl chloride	ND	ug/L	4.0	1		10/07/11 18:48	107-05-1	
Benzene	ND	ug/L	1.0	1		10/07/11 18:48	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		10/07/11 18:48	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		10/07/11 18:48	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		10/07/11 18:48	75-27-4	
Bromoform	ND	ug/L	4.0	1		10/07/11 18:48	75-25-2	
Bromomethane	ND	ug/L	4.0	1		10/07/11 18:48	74-83-9	
2-Butanone (MEK)	6.5	ug/L	4.0	1		10/07/11 18:48	78-93-3	
n-Butylbenzene	ND	ug/L	1.0	1		10/07/11 18:48	104-51-8	
sec-Butylbenzene	ND	ug/L	1.0	1		10/07/11 18:48	135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	1		10/07/11 18:48	98-06-6	
Carbon disulfide	ND	ug/L	1.0	1		10/07/11 18:48	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	1		10/07/11 18:48	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		10/07/11 18:48	108-90-7	
Chloroethane	ND	ug/L	1.0	1		10/07/11 18:48	75-00-3	
2-Chloroethylvinyl ether	ND	ug/L	10.0	1		10/07/11 18:48	110-75-8	
Chloroform	ND	ug/L	1.0	1		10/07/11 18:48	67-66-3	
Chloromethane	ND	ug/L	4.0	1		10/07/11 18:48	74-87-3	
Chloroprene	ND	ug/L	1.0	1		10/07/11 18:48	126-99-8	
2-Chlorotoluene	ND	ug/L	1.0	1		10/07/11 18:48	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		10/07/11 18:48	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	4.0	1		10/07/11 18:48	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		10/07/11 18:48	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		10/07/11 18:48	106-93-4	
Dibromomethane	ND	ug/L	4.0	1		10/07/11 18:48	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		10/07/11 18:48	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		10/07/11 18:48	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		10/07/11 18:48	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		10/07/11 18:48	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		10/07/11 18:48	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		10/07/11 18:48	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		10/07/11 18:48	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		10/07/11 18:48	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	4.0	1		10/07/11 18:48	156-60-5	
Dichlorofluoromethane	ND	ug/L	1.0	1		10/07/11 18:48	75-43-4	
1,2-Dichloropropane	ND	ug/L	4.0	1		10/07/11 18:48	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		10/07/11 18:48	142-28-9	
2,2-Dichloropropane	ND	ug/L	4.0	1		10/07/11 18:48	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		10/07/11 18:48	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	4.0	1		10/07/11 18:48	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	4.0	1		10/07/11 18:48	10061-02-6	
Diethyl ether (Ethyl ether)	ND	ug/L	4.0	1		10/07/11 18:48	60-29-7	
Ethylbenzene	ND	ug/L	1.0	1		10/07/11 18:48	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	5.0	1		10/07/11 18:48	87-68-3	

Date: 10/10/2011 04:45 PM

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: CRC
Pace Project No.: 10171200

Sample: AS EFFLUENT	Lab ID: 10171200002	Collected: 09/29/11 12:45	Received: 09/30/11 15:18	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
624 MSV		Analytical Method: EPA 624						
2-Hexanone	ND ug/L		4.0	1		10/07/11 18:48	591-78-6	
Iodomethane	ND ug/L		4.0	1		10/07/11 18:48	74-88-4	
Isopropylbenzene (Cumene)	ND ug/L		1.0	1		10/07/11 18:48	98-82-8	
p-Isopropyltoluene	ND ug/L		1.0	1		10/07/11 18:48	99-87-6	
Methylene Chloride	ND ug/L		4.0	1		10/07/11 18:48	75-09-2	
2-Methylnaphthalene	ND ug/L		5.0	1		10/07/11 18:48	91-57-6	
4-Methyl-2-pentanone (MIBK)	ND ug/L		4.0	1		10/07/11 18:48	108-10-1	
Methyl-tert-butyl ether	ND ug/L		1.0	1		10/07/11 18:48	1634-04-4	
Naphthalene	ND ug/L		4.0	1		10/07/11 18:48	91-20-3	
n-Propylbenzene	ND ug/L		1.0	1		10/07/11 18:48	103-65-1	
Styrene	ND ug/L		1.0	1		10/07/11 18:48	100-42-5	
1,1,1,2-Tetrachloroethane	ND ug/L		1.0	1		10/07/11 18:48	630-20-6	
1,1,2,2-Tetrachloroethane	ND ug/L		1.0	1		10/07/11 18:48	79-34-5	
Tetrachloroethene	ND ug/L		1.0	1		10/07/11 18:48	127-18-4	
Tetrahydrofuran	ND ug/L		10.0	1		10/07/11 18:48	109-99-9	
Toluene	ND ug/L		1.0	1		10/07/11 18:48	108-88-3	
1,2,3-Trichlorobenzene	ND ug/L		1.0	1		10/07/11 18:48	87-61-6	
1,2,4-Trichlorobenzene	ND ug/L		1.0	1		10/07/11 18:48	120-82-1	
1,1,1-Trichloroethane	ND ug/L		1.0	1		10/07/11 18:48	71-55-6	
1,1,2-Trichloroethane	ND ug/L		1.0	1		10/07/11 18:48	79-00-5	
Trichloroethene	ND ug/L		1.0	1		10/07/11 18:48	79-01-6	
Trichlorofluoromethane	ND ug/L		1.0	1		10/07/11 18:48	75-69-4	
1,2,3-Trichloropropane	ND ug/L		4.0	1		10/07/11 18:48	96-18-4	
1,1,2-Trichlorotrifluoroethane	ND ug/L		1.0	1		10/07/11 18:48	76-13-1	
1,2,4-Trimethylbenzene	ND ug/L		1.0	1		10/07/11 18:48	95-63-6	
1,3,5-Trimethylbenzene	ND ug/L		1.0	1		10/07/11 18:48	108-67-8	
Vinyl acetate	ND ug/L		10.0	1		10/07/11 18:48	108-05-4	
Vinyl chloride	ND ug/L		0.40	1		10/07/11 18:48	75-01-4	
Xylene (Total)	ND ug/L		3.0	1		10/07/11 18:48	1330-20-7	
m&p-Xylene	ND ug/L		2.0	1		10/07/11 18:48	179601-23-1	
o-Xylene	ND ug/L		1.0	1		10/07/11 18:48	95-47-6	
Dibromofluoromethane (S)	102 %		75-125	1		10/07/11 18:48	1868-53-7	
4-Bromofluorobenzene (S)	99 %		75-125	1		10/07/11 18:48	460-00-4	
Toluene-d8 (S)	101 %		75-125	1		10/07/11 18:48	2037-26-5	
1,2-Dichloroethane-d4 (S)	101 %		75-125	1		10/07/11 18:48	17060-07-0	

QUALITY CONTROL DATA

Project: CRC
Pace Project No.: 10171200

QC Batch: MSV/18216 Analysis Method: EPA 624
QC Batch Method: EPA 624 Analysis Description: 624 MSV
Associated Lab Samples: 10171200001, 10171200002

METHOD BLANK: 1070838 Matrix: Water
Associated Lab Samples: 10171200001, 10171200002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	1.0	10/07/11 14:56	
1,1,1-Trichloroethane	ug/L	ND	1.0	10/07/11 14:56	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	10/07/11 14:56	
1,1,2-Trichloroethane	ug/L	ND	1.0	10/07/11 14:56	
1,1,2-Trichlorotrifluoroethane	ug/L	ND	1.0	10/07/11 14:56	
1,1-Dichloroethane	ug/L	ND	1.0	10/07/11 14:56	
1,1-Dichloroethene	ug/L	ND	1.0	10/07/11 14:56	
1,1-Dichloropropene	ug/L	ND	1.0	10/07/11 14:56	
1,2,3-Trichlorobenzene	ug/L	ND	1.0	10/07/11 14:56	
1,2,3-Trichloropropane	ug/L	ND	4.0	10/07/11 14:56	
1,2,4-Trichlorobenzene	ug/L	ND	1.0	10/07/11 14:56	
1,2,4-Trimethylbenzene	ug/L	ND	1.0	10/07/11 14:56	
1,2-Dibromo-3-chloropropane	ug/L	ND	4.0	10/07/11 14:56	
1,2-Dibromoethane (EDB)	ug/L	ND	1.0	10/07/11 14:56	
1,2-Dichlorobenzene	ug/L	ND	1.0	10/07/11 14:56	
1,2-Dichloroethane	ug/L	ND	1.0	10/07/11 14:56	
1,2-Dichloropropane	ug/L	ND	4.0	10/07/11 14:56	
1,3,5-Trimethylbenzene	ug/L	ND	1.0	10/07/11 14:56	
1,3-Dichlorobenzene	ug/L	ND	1.0	10/07/11 14:56	
1,3-Dichloropropane	ug/L	ND	1.0	10/07/11 14:56	
1,4-Dichlorobenzene	ug/L	ND	1.0	10/07/11 14:56	
2,2-Dichloropropane	ug/L	ND	4.0	10/07/11 14:56	
2-Butanone (MEK)	ug/L	ND	4.0	10/07/11 14:56	
2-Chloroethylvinyl ether	ug/L	ND	10.0	10/07/11 14:56	
2-Chlorotoluene	ug/L	ND	1.0	10/07/11 14:56	
2-Hexanone	ug/L	ND	4.0	10/07/11 14:56	
2-Methylnaphthalene	ug/L	ND	5.0	10/07/11 14:56	
4-Chlorotoluene	ug/L	ND	1.0	10/07/11 14:56	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	4.0	10/07/11 14:56	
Acetone	ug/L	ND	25.0	10/07/11 14:56	
Acrolein	ug/L	ND	10.0	10/07/11 14:56	
Acrylonitrile	ug/L	ND	10.0	10/07/11 14:56	
Allyl chloride	ug/L	ND	4.0	10/07/11 14:56	
Benzene	ug/L	ND	1.0	10/07/11 14:56	
Bromobenzene	ug/L	ND	1.0	10/07/11 14:56	
Bromochloromethane	ug/L	ND	1.0	10/07/11 14:56	
Bromodichloromethane	ug/L	ND	1.0	10/07/11 14:56	
Bromoform	ug/L	ND	4.0	10/07/11 14:56	
Bromomethane	ug/L	ND	4.0	10/07/11 14:56	
Carbon disulfide	ug/L	ND	1.0	10/07/11 14:56	
Carbon tetrachloride	ug/L	ND	1.0	10/07/11 14:56	
Chlorobenzene	ug/L	ND	1.0	10/07/11 14:56	
Chloroethane	ug/L	ND	1.0	10/07/11 14:56	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: CRC
Pace Project No.: 10171200

METHOD BLANK: 1070838 Matrix: Water

Associated Lab Samples: 10171200001, 10171200002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloroform	ug/L	ND	1.0	10/07/11 14:56	
Chloromethane	ug/L	ND	4.0	10/07/11 14:56	
Chloroprene	ug/L	ND	1.0	10/07/11 14:56	
cis-1,2-Dichloroethene	ug/L	ND	1.0	10/07/11 14:56	
cis-1,3-Dichloropropene	ug/L	ND	4.0	10/07/11 14:56	
Dibromochloromethane	ug/L	ND	1.0	10/07/11 14:56	
Dibromomethane	ug/L	ND	4.0	10/07/11 14:56	
Dichlorodifluoromethane	ug/L	ND	1.0	10/07/11 14:56	
Dichlorofluoromethane	ug/L	ND	1.0	10/07/11 14:56	
Diethyl ether (Ethyl ether)	ug/L	ND	4.0	10/07/11 14:56	
Ethylbenzene	ug/L	ND	1.0	10/07/11 14:56	
Hexachloro-1,3-butadiene	ug/L	ND	5.0	10/07/11 14:56	
Iodomethane	ug/L	ND	4.0	10/07/11 14:56	
Isopropylbenzene (Cumene)	ug/L	ND	1.0	10/07/11 14:56	
m&p-Xylene	ug/L	ND	2.0	10/07/11 14:56	
Methyl-tert-butyl ether	ug/L	ND	1.0	10/07/11 14:56	
Methylene Chloride	ug/L	ND	4.0	10/07/11 14:56	
n-Butylbenzene	ug/L	ND	1.0	10/07/11 14:56	
n-Propylbenzene	ug/L	ND	1.0	10/07/11 14:56	
Naphthalene	ug/L	ND	4.0	10/07/11 14:56	
o-Xylene	ug/L	ND	1.0	10/07/11 14:56	
p-Isopropyltoluene	ug/L	ND	1.0	10/07/11 14:56	
sec-Butylbenzene	ug/L	ND	1.0	10/07/11 14:56	
Styrene	ug/L	ND	1.0	10/07/11 14:56	
tert-Butylbenzene	ug/L	ND	1.0	10/07/11 14:56	
Tetrachloroethene	ug/L	ND	1.0	10/07/11 14:56	
Tetrahydrofuran	ug/L	ND	10.0	10/07/11 14:56	
Toluene	ug/L	ND	1.0	10/07/11 14:56	
trans-1,2-Dichloroethene	ug/L	ND	4.0	10/07/11 14:56	
trans-1,3-Dichloropropene	ug/L	ND	4.0	10/07/11 14:56	
Trichloroethene	ug/L	ND	1.0	10/07/11 14:56	
Trichlorofluoromethane	ug/L	ND	1.0	10/07/11 14:56	
Vinyl acetate	ug/L	ND	10.0	10/07/11 14:56	
Vinyl chloride	ug/L	ND	0.40	10/07/11 14:56	
Xylene (Total)	ug/L	ND	3.0	10/07/11 14:56	
1,2-Dichloroethane-d4 (S)	%	97	75-125	10/07/11 14:56	
4-Bromofluorobenzene (S)	%	101	75-125	10/07/11 14:56	
Dibromofluoromethane (S)	%	100	75-125	10/07/11 14:56	
Toluene-d8 (S)	%	101	75-125	10/07/11 14:56	

LABORATORY CONTROL SAMPLE: 1070839

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	50.4	101	75-129	
1,1,1-Trichloroethane	ug/L	50	45.0	90	73-144	

QUALITY CONTROL DATA

Project: CRC
Pace Project No.: 10171200

LABORATORY CONTROL SAMPLE: 1070839

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,2,2-Tetrachloroethane	ug/L	50	52.6	105	75-125	
1,1,2-Trichloroethane	ug/L	50	48.7	97	75-125	
1,1,2-Trichlorotrifluoroethane	ug/L	50	44.7	89	75-143	
1,1-Dichloroethane	ug/L	50	46.6	93	75-135	
1,1-Dichloroethene	ug/L	50	46.4	93	75-133	
1,1-Dichloropropene	ug/L	50	46.5	93	75-131	
1,2,3-Trichlorobenzene	ug/L	50	51.7	103	73-141	
1,2,3-Trichloropropane	ug/L	50	52.2	104	75-126	
1,2,4-Trichlorobenzene	ug/L	50	52.3	105	70-148	
1,2,4-Trimethylbenzene	ug/L	50	49.6	99	75-141	
1,2-Dibromo-3-chloropropane	ug/L	50	51.3	103	64-135	
1,2-Dibromoethane (EDB)	ug/L	50	53.8	108	75-125	
1,2-Dichlorobenzene	ug/L	50	50.6	101	75-125	
1,2-Dichloroethane	ug/L	50	51.2	102	75-136	
1,2-Dichloropropane	ug/L	50	47.3	95	75-130	
1,3,5-Trimethylbenzene	ug/L	50	49.2	98	75-141	
1,3-Dichlorobenzene	ug/L	50	49.3	99	75-125	
1,3-Dichloropropane	ug/L	50	51.7	103	75-125	
1,4-Dichlorobenzene	ug/L	50	49.5	99	75-125	
2,2-Dichloropropane	ug/L	50	46.8	94	50-150	
2-Butanone (MEK)	ug/L	50	47.6	95	58-138	
2-Chloroethylvinyl ether	ug/L	125	128	103	50-150	
2-Chlorotoluene	ug/L	50	48.9	98	75-132	
2-Hexanone	ug/L	50	50.9	102	65-135	
2-Methylnaphthalene	ug/L	25	25.6	102	62-150	
4-Chlorotoluene	ug/L	50	49.8	100	75-135	
4-Methyl-2-pentanone (MIBK)	ug/L	50	52.7	105	69-137	
Acetone	ug/L	125	87.9	70	52-141	
Acrolein	ug/L	500	520	104	50-150	
Acrylonitrile	ug/L	500	526	105	75-130	
Allyl chloride	ug/L	50	51.3	103	68-150	
Benzene	ug/L	50	47.9	96	75-125	
Bromobenzene	ug/L	50	50.4	101	75-125	
Bromochloromethane	ug/L	50	47.0	94	75-129	
Bromodichloromethane	ug/L	50	49.1	98	75-142	
Bromoform	ug/L	50	51.2	102	66-135	
Bromomethane	ug/L	50	45.9	92	57-150	
Carbon disulfide	ug/L	50	44.7	89	65-132	
Carbon tetrachloride	ug/L	50	42.5	85	75-148	
Chlorobenzene	ug/L	50	49.0	98	75-125	
Chloroethane	ug/L	50	43.0	86	66-142	
Chloroform	ug/L	50	47.1	94	75-131	
Chloromethane	ug/L	50	42.2	84	52-147	
Chloroprene	ug/L	50	43.1	86	71-147	
cis-1,2-Dichloroethene	ug/L	50	49.0	98	75-126	
cis-1,3-Dichloropropene	ug/L	50	48.8	98	69-150	
Dibromochloromethane	ug/L	50	51.4	103	73-138	
Dibromomethane	ug/L	50	49.9	100	75-127	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: CRC
Pace Project No.: 10171200

LABORATORY CONTROL SAMPLE: 1070839

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Dichlorodifluoromethane	ug/L	50	42.5	85	50-150	
Dichlorofluoromethane	ug/L	50	46.3	93	75-129	
Diethyl ether (Ethyl ether)	ug/L	50	52.7	105	75-126	
Ethylbenzene	ug/L	50	47.8	96	75-132	
Hexachloro-1,3-butadiene	ug/L	25	23.5	94	75-129	
Iodomethane	ug/L	50	46.4	93	73-150	
Isopropylbenzene (Cumene)	ug/L	50	48.0	96	75-142	
m&p-Xylene	ug/L	100	97.5	97	75-131	
Methyl-tert-butyl ether	ug/L	50	53.8	108	75-130	
Methylene Chloride	ug/L	50	48.8	98	71-125	
n-Butylbenzene	ug/L	50	49.6	99	70-148	
n-Propylbenzene	ug/L	50	47.9	96	75-136	
Naphthalene	ug/L	50	52.9	106	69-145	
o-Xylene	ug/L	50	49.5	99	75-129	
p-Isopropyltoluene	ug/L	50	49.3	99	75-132	
sec-Butylbenzene	ug/L	50	48.8	98	75-136	
Styrene	ug/L	50	48.4	97	75-125	
tert-Butylbenzene	ug/L	50	48.0	96	75-135	
Tetrachloroethene	ug/L	50	46.9	94	75-125	
Tetrahydrofuran	ug/L	500	504	101	63-144	
Toluene	ug/L	50	47.4	95	75-125	
trans-1,2-Dichloroethene	ug/L	50	47.9	96	72-135	
trans-1,3-Dichloropropene	ug/L	50	51.5	103	62-150	
Trichloroethene	ug/L	50	46.5	93	75-125	
Trichlorofluoromethane	ug/L	50	42.9	86	67-150	
Vinyl acetate	ug/L	50	55.4	111	55-150	
Vinyl chloride	ug/L	50	44.2	88	63-147	
Xylene (Total)	ug/L	150	147	98	75-130	
1,2-Dichloroethane-d4 (S)	%			95	75-125	
4-Bromofluorobenzene (S)	%			100	75-125	
Dibromofluoromethane (S)	%			99	75-125	
Toluene-d8 (S)	%			101	75-125	

MATRIX SPIKE SAMPLE: 1072619

Parameter	Units	10171243001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	50	53.4	107	70-136	
1,1,1-Trichloroethane	ug/L	ND	50	57.9	116	68-150	
1,1,2,2-Tetrachloroethane	ug/L	ND	50	53.5	107	75-125	
1,1,2-Trichloroethane	ug/L	ND	50	48.5	97	75-125	
1,1,2-Trichlorotrifluoroethane	ug/L	ND	50	65.2	130	75-150	
1,1-Dichloroethane	ug/L	ND	50	54.9	110	67-143	
1,1-Dichloroethene	ug/L	ND	50	59.4	119	75-147	
1,1-Dichloropropene	ug/L	ND	50	60.0	120	75-141	
1,2,3-Trichlorobenzene	ug/L	ND	50	54.0	108	71-141	
1,2,3-Trichloropropane	ug/L	ND	50	54.2	108	75-128	
1,2,4-Trichlorobenzene	ug/L	ND	50	55.1	110	61-148	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: CRC
Pace Project No.: 10171200

MATRIX SPIKE SAMPLE:		1072619						
Parameter	Units	10171243001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers	
1,2,4-Trimethylbenzene	ug/L	ND	50	54.9	110	65-145		
1,2-Dibromo-3-chloropropane	ug/L	ND	50	52.0	104	64-135		
1,2-Dibromoethane (EDB)	ug/L	ND	50	54.9	110	75-126		
1,2-Dichlorobenzene	ug/L	ND	50	53.6	107	75-127		
1,2-Dichloroethane	ug/L	ND	50	52.2	104	70-138		
1,2-Dichloropropane	ug/L	ND	50	51.4	103	75-130		
1,3,5-Trimethylbenzene	ug/L	ND	50	55.4	111	61-150		
1,3-Dichlorobenzene	ug/L	ND	50	53.0	106	75-126		
1,3-Dichloropropane	ug/L	ND	50	52.7	105	75-125		
1,4-Dichlorobenzene	ug/L	ND	50	53.4	107	75-125		
2,2-Dichloropropane	ug/L	ND	50	59.3	119	50-150		
2-Butanone (MEK)	ug/L	ND	50	45.5	91	50-141		
2-Chloroethylvinyl ether	ug/L	ND	125	5.4J	4	50-150 M1		
2-Chlorotoluene	ug/L	ND	50	54.4	109	75-137		
2-Hexanone	ug/L	ND	50	50.6	101	66-135		
2-Methylnaphthalene	ug/L	ND	25	27.1	108	62-150		
4-Chlorotoluene	ug/L	ND	50	55.0	110	70-144		
4-Methyl-2-pentanone (MIBK)	ug/L	ND	50	52.7	105	62-142		
Acetone	ug/L	ND	125	85.7	66	50-150		
Acrolein	ug/L	ND	500	608	122	50-150		
Acrylonitrile	ug/L	ND	500	531	106	70-135		
Allyl chloride	ug/L	ND	50	59.8	120	50-150		
Benzene	ug/L	ND	50	55.8	112	75-125		
Bromobenzene	ug/L	ND	50	54.5	109	75-125		
Bromochloromethane	ug/L	ND	50	48.9	98	73-137		
Bromodichloromethane	ug/L	ND	50	52.4	105	70-142		
Bromoform	ug/L	ND	50	51.8	104	55-135		
Bromomethane	ug/L	ND	50	57.9	116	50-150		
Carbon disulfide	ug/L	ND	50	57.7	115	50-150		
Carbon tetrachloride	ug/L	ND	50	55.5	111	64-150		
Chlorobenzene	ug/L	ND	50	54.7	109	75-125		
Chloroethane	ug/L	ND	50	54.1	108	59-150		
Chloroform	ug/L	ND	50	52.5	105	75-132		
Chloromethane	ug/L	ND	50	53.1	106	52-150		
Chloroprene	ug/L	ND	50	55.2	110	54-150		
cis-1,2-Dichloroethene	ug/L	7.2	50	64.7	115	64-144		
cis-1,3-Dichloropropene	ug/L	ND	50	51.5	103	56-150		
Dibromochloromethane	ug/L	ND	50	52.4	105	60-138		
Dibromomethane	ug/L	ND	50	49.6	99	75-127		
Dichlorodifluoromethane	ug/L	ND	50	65.4	131	50-150		
Dichlorofluoromethane	ug/L	ND	50	56.2	112	74-142		
Diethyl ether (Ethyl ether)	ug/L	ND	50	54.9	110	75-127		
Ethylbenzene	ug/L	ND	50	56.5	113	75-134		
Hexachloro-1,3-butadiene	ug/L	ND	25	27.9	111	63-150		
Iodomethane	ug/L	ND	50	58.7	117	50-150		
Isopropylbenzene (Cumene)	ug/L	ND	50	55.9	112	69-147		
m&p-Xylene	ug/L	ND	100	109	109	75-133		
Methyl-tert-butyl ether	ug/L	ND	50	54.3	109	73-131		

QUALITY CONTROL DATA

Project: CRC
Pace Project No.: 10171200

MATRIX SPIKE SAMPLE: 1072619		10171243001	Spike	MS	MS	% Rec	
Parameter	Units	Result	Conc.	Result	% Rec	Limits	Qualifiers
Methylene Chloride	ug/L	ND	50	50.8	102	68-126	
n-Butylbenzene	ug/L	ND	50	56.3	113	59-150	
n-Propylbenzene	ug/L	ND	50	55.7	111	72-143	
Naphthalene	ug/L	ND	50	54.0	108	57-148	
o-Xylene	ug/L	ND	50	55.8	112	75-131	
p-Isopropyltoluene	ug/L	ND	50	56.0	112	75-137	
sec-Butylbenzene	ug/L	ND	50	55.9	112	75-144	
Styrene	ug/L	ND	50	50.0	100	75-134	
tert-Butylbenzene	ug/L	ND	50	55.2	110	68-150	
Tetrachloroethene	ug/L	ND	50	57.8	116	75-130	
Tetrahydrofuran	ug/L	ND	500	491	98	60-148	
Toluene	ug/L	ND	50	55.4	111	75-125	
trans-1,2-Dichloroethene	ug/L	ND	50	58.7	117	75-145	
trans-1,3-Dichloropropene	ug/L	ND	50	52.4	105	50-150	
Trichloroethene	ug/L	12.5	50	69.4	114	73-132	
Trichlorofluoromethane	ug/L	ND	50	64.1	128	67-150	
Vinyl acetate	ug/L	ND	50	54.7	109	50-150	
Vinyl chloride	ug/L	1.1	50	60.2	118	63-150	
Xylene (Total)	ug/L	ND	150	165	110	72-138	
1,2-Dichloroethane-d4 (S)	%				95	75-125	
4-Bromofluorobenzene (S)	%				102	75-125	
Dibromofluoromethane (S)	%				98	75-125	
Toluene-d8 (S)	%				103	75-125	

SAMPLE DUPLICATE: 1072620

Parameter	Units	10171740001	Dup	RPD	Max	Qualifiers
		Result	Result		RPD	
1,1,1,2-Tetrachloroethane	ug/L	ND	ND		30	
1,1,1-Trichloroethane	ug/L	ND	ND		30	
1,1,2,2-Tetrachloroethane	ug/L	ND	ND		30	
1,1,2-Trichloroethane	ug/L	ND	ND		30	
1,1,2-Trichlorotrifluoroethane	ug/L	ND	ND		30	
1,1-Dichloroethane	ug/L	11.1	11.0	.9	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	

Date: 10/10/2011 04:45 PM

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: CRC
Pace Project No.: 10171200

SAMPLE DUPLICATE: 1072620

Parameter	Units	10171740001 Result	Dup Result	RPD	Max RPD	Qualifiers
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	2.4	2.4	.1	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	
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	

Date: 10/10/2011 04:45 PM

REPORT OF LABORATORY ANALYSIS

Page 15 of 18

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QUALITY CONTROL DATA

Project: CRC
Pace Project No.: 10171200

SAMPLE DUPLICATE: 1072620

Parameter	Units	10171740001 Result	Dup Result	RPD	Max RPD	Qualifiers
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	.32J		30	
Xylene (Total)	ug/L	ND	ND		30	
1,2-Dichloroethane-d4 (S)	%	101	102	.5		
4-Bromofluorobenzene (S)	%	100	100	.2		
Dibromofluoromethane (S)	%	102	103	.8		
Toluene-d8 (S)	%	99	100	.06		

QUALIFIERS

Project: CRC
Pace Project No.: 10171200

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

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

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: CRC
Pace Project No.: 10171200

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10171200001	AS INFLUENT	EPA 624	MSV/18216		
10171200002	AS EFFLUENT	EPA 624	MSV/18216		

CHAIN-OF-CUSTODY / Analytical Request Document

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

10171200

Section A
Required Client Information:
 Company: LAND MARK
 Address: 1450979
 Email To: JASON SKAMSTAD
 Phone:
 Requested Due Date/TAT: STD

Section B
Required Project Information:
 Report To: JASON SKAMSTAD
 Copy To:
 Purchase Order No.: CRC
 Project Name: CRC
 Project Number: CRC

Section C
Invoice Information:
 Attention: Sharon Paradise
 Company Name: LAND MARK
 Address:
 Pace Quote Reference:
 Pace Project Manager:
 Pace Profile #:

REGULATORY AGENCY
 NPDES GROUND WATER DRINKING WATER
 UST RCRA OTHER
 Site Location STATE: MN

ITEM #	Section D Required Client Information	Matrix Codes MATRIX / CODE	COLLECTED		SAMPLE TYPE (G=GRAB C=COMP)	MATRIX CODE (see valid codes to left)	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives	Requested Analysis Filtered (Y/N)	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
			COMPOSITE START	COMPOSITE END/GRAB								
1	AS INFLUENT	DW Water	DATE: 9/29/11 TIME: 12:38	DATE: 9/29/11 TIME: 12:38	W/G	W/G	3	Unpreserved	Y			001
2	AS EFFLUENT	WT Waste Water	DATE: 9/29/11 TIME: 12:15	DATE: 9/29/11 TIME: 12:15	W/G	W/G	3	HCl HNO3 H2SO4	Y			002
3		WP Wipe										
4		AR Air										
5		TS Tissue										
6		OT Other										
7												
8												
9												
10												
11												
12												
19	ADDITIONAL COMMENTS											
of 20												

SAMPLER NAME AND SIGNATURE
 PRINT Name of SAMPLER: JASON SKAMSTAD
 SIGNATURE of SAMPLER: [Signature]
 DATE Signed (MM/DD/YYYY): 9/30/11

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

ORIGINAL

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.



Document Name: **Sample Condition Upon Receipt Form**
 Document Number: **F-L-213 Rev.01**

Revised Date: 02Jun2011
 Page 1 of 1
 Issuing Authority:
 Pace Minnesota Quality Office

Sample Condition Upon Receipt

Client Name: Landmark

Project # 10171200

Courier: Fed Ex UPS USPS Client Commercial Pace Other _____

Tracking #: _____
 Custody Seal on Cooler/Box Present: yes no Seals intact: yes no

Optional:
 Proj. Due/Date:
 Proj. Name:

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

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

Cooler Temperature 2.4 Biological Tissue is Frozen: Yes No
 Temp should be above freezing to 6°C

Date and Initials of person examining contents: 9/30/11 SA

Comments:

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

Client Notification/ Resolution: _____ Field Data Required? Y / N
 Person Contacted: _____ Date/Time: _____
 Comments/ Resolution: _____

Project Manager Review: [Signature] Date: 9/30/11

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)



88 Empire Drive
St Paul, MN 55103
Tel: 651-642-1150
Fax: 651-642-1239

November 04, 2011

Mr. Jason Skramstad
Landmark Environmental
2042 West 98th Street
Bloomington, MN 55431

Work Order Number: 1105251
RE: TO-15

Enclosed are the results of analyses for samples received by the laboratory on 10/27/11. If you have any questions concerning this report, please feel free to contact me.

Samples will not be retained by LEGEND once the analyses are completed.

All internal quality assurance met the method requirements unless otherwise noted in the case narrative.

For the tentatively identified compounds (TICs), a computer generated library search was done comparing the spectra of the unknown compounds with spectra contained in the NIST (NBS) and Wiley reference libraries. A visual comparison was made of each unknown compound and the best library match. Quantitation was based on the response of the nearest internal standard. Unidentified peaks were quantified using 100 as the molecular weight. Both the identification of specific compounds and the quantities given should be considered approximations.

Chromatograms are included for samples containing detections.

MDH Certification #027-123-295

Prepared by,
LEGEND TECHNICAL SERVICES, INC

Bach Pham
Client Manager I
bpham@legend-group.com

Triet Le
Chemist II
trietle@legend-group.com

Landmark Environmental 2042 West 98th Street Bloomington, MN 55431	Project: TO-15 Project Number: CRC Project Manager: Mr. Jason Skramstad	Work Order #: 1105251 Date Reported: 11/04/11
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ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
DPE Exhaust	1105251-01	Air	10/27/11 13:30	10/27/11 17:10

Case Narrative:

Landmark Environmental 2042 West 98th Street Bloomington, MN 55431	Project: TO-15 Project Number: CRC Project Manager: Mr. Jason Skramstad	Work Order #: 1105251 Date Reported: 11/04/11
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VOC - AIR
Legend Technical Services, Inc.

Analyte (CAS#)	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
DPE Exhaust (1105251-01) Air Received:10/27/11 17:10 Sampled:10/27/11 13:30										
1,1,1-Trichloroethane (71-55-6)	<14	14	0.95	ug/m ³	5	B1J3121	10/27/11	10/28/11	TO-15(M)	
1,1,2,2-Tetrachloroethane (79-34-5)	<17	17	2.8	ug/m ³	5	"	"	"	"	
1,1,2-Trichloroethane (79-00-5)	<14	14	1.8	ug/m ³	5	"	"	"	"	
1,1-Dichloroethane (75-34-3)	<10	10	0.34	ug/m ³	5	"	"	"	"	
1,1-Dichloroethene (75-35-4)	<10	10	0.34	ug/m ³	5	"	"	"	"	
1,2,4-Trichlorobenzene (120-82-1)	<18	18	0.65	ug/m ³	5	"	"	"	"	
1,2,4-Trimethylbenzene (95-63-6)	<4.9	4.9	1.4	ug/m ³	5	"	"	"	"	
1,2-Dibromoethane (106-93-4)	<19	19	2.4	ug/m ³	5	"	"	"	"	
1,2-Dichlorobenzene (95-50-1)	<15	15	1.6	ug/m ³	5	"	"	"	"	
1,2-Dichloroethane (107-06-2)	<10	10	0.70	ug/m ³	5	"	"	"	"	
1,2-Dichloropropane (78-87-5)	<12	12	1.5	ug/m ³	5	"	"	"	"	
1,3,5-Trimethylbenzene (108-67-8)	<4.9	4.9	1.4	ug/m ³	5	"	"	"	"	
1,3-Butadiene (106-99-0)	<5.5	5.5	0.65	ug/m ³	5	"	"	"	"	
1,3-Dichlorobenzene (541-73-1)	<15	15	1.4	ug/m ³	5	"	"	"	"	
1,4-Dichlorobenzene (106-46-7)	<15	15	1.4	ug/m ³	5	"	"	"	"	
2-Butanone (78-93-3)	11	7.5	0.80	ug/m ³	5	"	"	"	"	
4-Ethyltoluene (622-96-8)	<12	12	1.4	ug/m ³	5	"	"	"	"	
Acetone (67-64-1)	25	6.0	1.4	ug/m ³	5	"	"	"	"	
Benzene (71-43-2)	<3.2	3.2	0.75	ug/m ³	5	"	"	"	"	
Benzyl chloride (100-44-7)	<13	13	1.4	ug/m ³	5	"	"	"	"	
Bromodichloromethane (75-27-4)	<17	17	1.2	ug/m ³	5	"	"	"	"	
Bromoform (75-25-2)	<26	26	2.5	ug/m ³	5	"	"	"	"	
Bromomethane (74-83-9)	<9.5	9.5	0.70	ug/m ³	5	"	"	"	"	
Carbon disulfide (75-15-0)	<8.0	8.0	0.34	ug/m ³	5	"	"	"	"	
Carbon tetrachloride (56-23-5)	<16	16	0.95	ug/m ³	5	"	"	"	"	
Chlorobenzene (108-90-7)	<12	12	1.4	ug/m ³	5	"	"	"	"	
Chloroethane (75-00-3)	<6.5	6.5	0.33	ug/m ³	5	"	"	"	"	
Chloroform (67-66-3)	<12	12	1.3	ug/m ³	5	"	"	"	"	
Chloromethane (74-87-3)	<5.0	5.0	0.29	ug/m ³	5	"	"	"	"	
cis-1,2-Dichloroethene (156-59-2)	<10	10	0.38	ug/m ³	5	"	"	"	"	
cis-1,3-Dichloropropene (10061-01-5)	<12	12	1.6	ug/m ³	5	"	"	"	"	
Cyclohexane (110-82-7)	<8.5	8.5	0.50	ug/m ³	5	"	"	"	"	
Dibromochloromethane (124-48-1)	<22	22	2.2	ug/m ³	5	"	"	"	"	
Dichlorodifluoromethane (75-71-8)	<12	12	0.65	ug/m ³	5	"	"	"	"	
Dichlorotetrafluoroethane (76-14-2)	<18	18	0.75	ug/m ³	5	"	"	"	"	

Landmark Environmental 2042 West 98th Street Bloomington, MN 55431	Project: TO-15 Project Number: CRC Project Manager: Mr. Jason Skramstad	Work Order #: 1105251 Date Reported: 11/04/11
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VOC - AIR
Legend Technical Services, Inc.

Analyte (CAS#)	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
DPE Exhaust (1105251-01) Air Received:10/27/11 17:10 Sampled:10/27/11 13:30										
Ethanol (64-17-5)	81	4.7	0.75	ug/m ³	5	B1J3121	10/27/11	10/28/11	TO-15(M)	
Ethyl acetate (141-78-6)	<9.0	9.0	0.90	ug/m ³	5	"	"	"	"	
Ethylbenzene (100-41-4)	<4.4	4.4	1.2	ug/m ³	5	"	"	"	"	
Hexachlorobutadiene (87-68-3)	<26	26	3.4	ug/m ³	5	"	"	"	"	
Isopropyl alcohol (67-63-0)	16	6.0	0.50	ug/m ³	5	"	"	"	"	
m,p-Xylene (136777-61-2)	<8.5	8.5	2.4	ug/m ³	5	"	"	"	"	
Methyl butyl ketone (591-78-6)	<10	10	1.3	ug/m ³	5	"	"	"	"	
Methyl isobutyl ketone (108-10-1)	<10	10	1.6	ug/m ³	5	"	"	"	"	
Methyl tert-butyl ether (1634-04-4)	<9.0	9.0	1.0	ug/m ³	5	"	"	"	"	
Methylene chloride (75-09-2)	15	8.5	0.75	ug/m ³	5	"	"	"	"	
Naphthalene (91-20-3)	<13	13	0.70	ug/m ³	5	"	"	"	"	
n-Heptane (142-82-5)	<10	10	0.65	ug/m ³	5	"	"	"	"	
n-Hexane (110-54-3)	<9.0	9.0	0.28	ug/m ³	5	"	"	"	"	
o-Xylene (95-47-6)	<4.4	4.4	1.0	ug/m ³	5	"	"	"	"	
Propylene (115-07-1)	<4.3	4.3	0.16	ug/m ³	5	"	"	"	"	
Styrene (100-42-5)	<10	10	1.0	ug/m ³	5	"	"	"	"	
Tetrachloroethene (127-18-4)	180	17	1.2	ug/m ³	5	"	"	"	"	
Tetrahydrofuran (109-99-9)	<7.5	7.5	1.3	ug/m ³	5	"	"	"	"	
Toluene (108-88-3)	<3.8	3.8	1.1	ug/m ³	5	"	"	"	"	
trans-1,2-Dichloroethene (156-60-5)	<10	10	0.32	ug/m ³	5	"	"	"	"	
trans-1,3-Dichloropropene (10061-02-6)	<12	12	1.2	ug/m ³	5	"	"	"	"	
Trichloroethene (79-01-6)	<14	14	1.2	ug/m ³	5	"	"	"	"	
Trichlorofluoromethane (75-69-4)	<14	14	0.70	ug/m ³	5	"	"	"	"	
Trichlorotrifluoroethane (76-13-1)	11000	510	24	ug/m ³	135	"	"	10/31/11	"	
Vinyl acetate (108-05-4)	<9.0	9.0	1.0	ug/m ³	5	"	"	10/28/11	"	
Vinyl chloride (75-01-4)	<6.5	6.5	0.34	ug/m ³	5	"	"	"	"	

Landmark Environmental 2042 West 98th Street Bloomington, MN 55431	Project: TO-15 Project Number: CRC Project Manager: Mr. Jason Skramstad	Work Order #: 1105251 Date Reported: 11/04/11
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TENTATIVELY IDENTIFIED COMPOUNDS
Legend Technical Services, Inc.

Analyte (CAS#)	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
DPE Exhaust (1105251-01) Air Received:10/27/11 17:10 Sampled:10/27/11 13:30										
Ethane, 1-chloro-1,1-difluoro- (75-68-3)	130			ug/m ³	5	B1J3121	10/27/11	10/28/11	TO-15(M)	T-1
Ethene, chlorotrifluoro- (79-38-9)	39			ug/m ³	5	"	"	"	"	T-1
Norflurane (811-97-2)	25			ug/m ³	5	"	"	"	"	T-1

Landmark Environmental 2042 West 98th Street Bloomington, MN 55431	Project: TO-15 Project Number: CRC Project Manager: Mr. Jason Skramstad	Work Order #: 1105251 Date Reported: 11/04/11
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VOC - AIR - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
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Batch B1J3121 - TO-15

Blank (B1J3121-BLK1)

Prepared & Analyzed: 10/27/11

1,1,1-Trichloroethane	< 2.7	2.7	0.19	ug/m ³							
1,1,2,2-Tetrachloroethane	< 3.4	3.4	0.57	ug/m ³							
1,1,2-Trichloroethane	< 2.7	2.7	0.35	ug/m ³							
1,1-Dichloroethane	< 2.0	2.0	0.069	ug/m ³							
1,1-Dichloroethene	< 2.0	2.0	0.067	ug/m ³							
1,2,4-Trichlorobenzene	< 3.7	3.7	0.13	ug/m ³							
1,2,4-Trimethylbenzene	< 0.98	0.98	0.28	ug/m ³							
1,2-Dibromoethane	< 3.8	3.8	0.48	ug/m ³							
1,2-Dichlorobenzene	< 3.0	3.0	0.31	ug/m ³							
1,2-Dichloroethane	< 2.0	2.0	0.14	ug/m ³							
1,2-Dichloropropane	< 2.3	2.3	0.30	ug/m ³							
1,3,5-Trimethylbenzene	< 0.98	0.98	0.29	ug/m ³							
1,3-Butadiene	< 1.1	1.1	0.13	ug/m ³							
1,3-Dichlorobenzene	< 3.0	3.0	0.29	ug/m ³							
1,4-Dichlorobenzene	< 3.0	3.0	0.29	ug/m ³							
2-Butanone	< 1.5	1.5	0.16	ug/m ³							
4-Ethyltoluene	< 2.5	2.5	0.29	ug/m ³							
Acetone	< 1.2	1.2	0.29	ug/m ³							
Benzene	< 0.64	0.64	0.15	ug/m ³							
Benzyl chloride	< 2.6	2.6	0.29	ug/m ³							
Bromodichloromethane	< 3.4	3.4	0.25	ug/m ³							
Bromoform	< 5.2	5.2	0.50	ug/m ³							
Bromomethane	< 1.9	1.9	0.14	ug/m ³							
Carbon disulfide	< 1.6	1.6	0.069	ug/m ³							
Carbon tetrachloride	< 3.1	3.1	0.19	ug/m ³							
Chlorobenzene	< 2.3	2.3	0.28	ug/m ³							
Chloroethane	< 1.3	1.3	0.066	ug/m ³							
Chloroform	< 2.4	2.4	0.26	ug/m ³							
Chloromethane	< 1.0	1.0	0.058	ug/m ³							
cis-1,2-Dichloroethene	< 2.0	2.0	0.075	ug/m ³							
cis-1,3-Dichloropropene	< 2.3	2.3	0.31	ug/m ³							
Cyclohexane	< 1.7	1.7	0.10	ug/m ³							
Dibromochloromethane	< 4.3	4.3	0.43	ug/m ³							
Dichlorodifluoromethane	< 2.5	2.5	0.13	ug/m ³							
Dichlorotetrafluoroethane	< 3.5	3.5	0.15	ug/m ³							
Ethanol	< 0.94	0.94	0.15	ug/m ³							
Ethyl acetate	< 1.8	1.8	0.18	ug/m ³							
Ethylbenzene	< 0.87	0.87	0.25	ug/m ³							
Hexachlorobutadiene	< 5.3	5.3	0.69	ug/m ³							
Isopropyl alcohol	< 1.2	1.2	0.10	ug/m ³							

Landmark Environmental 2042 West 98th Street Bloomington, MN 55431	Project: TO-15 Project Number: CRC Project Manager: Mr. Jason Skramstad	Work Order #: 1105251 Date Reported: 11/04/11
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VOC - AIR - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
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Batch B1J3121 - TO-15

Blank (B1J3121-BLK1)

Prepared & Analyzed: 10/27/11

m,p-Xylene	< 1.7	1.7	0.48	ug/m ³							
Methyl butyl ketone	< 2.0	2.0	0.26	ug/m ³							
Methyl isobutyl ketone	< 2.0	2.0	0.32	ug/m ³							
Methyl tert-butyl ether	< 1.8	1.8	0.21	ug/m ³							
Methylene chloride	< 1.7	1.7	0.15	ug/m ³							
Naphthalene	< 2.6	2.6	0.14	ug/m ³							
n-Heptane	< 2.0	2.0	0.13	ug/m ³							
n-Hexane	< 1.8	1.8	0.056	ug/m ³							
o-Xylene	< 0.87	0.87	0.20	ug/m ³							
Propylene	< 0.86	0.86	0.031	ug/m ³							
Styrene	< 2.1	2.1	0.20	ug/m ³							
Tetrachloroethene	< 3.4	3.4	0.24	ug/m ³							
Tetrahydrofuran	< 1.5	1.5	0.26	ug/m ³							
Toluene	< 0.75	0.75	0.22	ug/m ³							
trans-1,2-Dichloroethene	< 2.0	2.0	0.063	ug/m ³							
trans-1,3-Dichloropropene	< 2.3	2.3	0.25	ug/m ³							
Trichloroethene	< 2.7	2.7	0.25	ug/m ³							
Trichlorofluoromethane	< 2.8	2.8	0.14	ug/m ³							
Trichlorotrifluoroethane	< 3.8	3.8	0.18	ug/m ³							
Vinyl acetate	< 1.8	1.8	0.20	ug/m ³							
Vinyl chloride	< 1.3	1.3	0.069	ug/m ³							

LCS (B1J3121-BS1)

Prepared & Analyzed: 10/27/11

1,1,1-Trichloroethane	49.2	2.7	0.19	ug/m ³	54.6		90.2	70-130			
1,1,2,2-Tetrachloroethane	56.2	3.4	0.57	ug/m ³	68.6		81.8	70-130			
1,1,2-Trichloroethane	48.4	2.7	0.35	ug/m ³	54.6		88.7	70-130			
1,1-Dichloroethane	36.5	2.0	0.069	ug/m ³	40.5		90.1	70-130			
1,1-Dichloroethene	37.1	2.0	0.067	ug/m ³	39.6		93.5	70-130			
1,2,4-Trichlorobenzene	57.1	3.7	0.13	ug/m ³	74.2		76.9	70-130			
1,2,4-Trimethylbenzene	41.4	0.98	0.28	ug/m ³	49.2		84.2	70-130			
1,2-Dibromoethane	64.9	3.8	0.48	ug/m ³	76.8		84.5	70-130			
1,2-Dichlorobenzene	51.7	3.0	0.31	ug/m ³	60.1		86.0	70-130			
1,2-Dichloroethane	37.2	2.0	0.14	ug/m ³	40.5		92.0	70-130			
1,2-Dichloropropane	40.3	2.3	0.30	ug/m ³	46.2		87.2	70-130			
1,3,5-Trimethylbenzene	40.6	0.98	0.29	ug/m ³	49.2		82.6	70-130			
1,3-Butadiene	20.8	1.1	0.13	ug/m ³	22.1		94.2	70-130			
1,3-Dichlorobenzene	50.7	3.0	0.29	ug/m ³	60.1		84.4	70-130			
1,4-Dichlorobenzene	51.8	3.0	0.29	ug/m ³	60.1		86.2	70-130			
2-Butanone	27.7	1.5	0.16	ug/m ³	29.5		93.9	70-130			
4-Ethyltoluene	42.4	2.5	0.29	ug/m ³	49.2		86.2	70-130			

Landmark Environmental 2042 West 98th Street Bloomington, MN 55431	Project: TO-15 Project Number: CRC Project Manager: Mr. Jason Skramstad	Work Order #: 1105251 Date Reported: 11/04/11
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VOC - AIR - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
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Batch B1J3121 - TO-15

LCS (B1J3121-BS1)

Prepared & Analyzed: 10/27/11

Acetone	20.9	1.2	0.29	ug/m ³	23.8		88.1	70-130			
Benzene	27.6	0.64	0.15	ug/m ³	31.9		86.3	70-130			
Benzyl chloride	45.5	2.6	0.29	ug/m ³	51.8		87.9	70-130			
Bromodichloromethane	59.6	3.4	0.25	ug/m ³	67.0		89.0	70-130			
Bromoform	90.5	5.2	0.50	ug/m ³	103		87.6	70-130			
Bromomethane	37.0	1.9	0.14	ug/m ³	38.8		95.3	70-130			
Carbon disulfide	30.2	1.6	0.069	ug/m ³	31.1		97.1	70-130			
Carbon tetrachloride	56.6	3.1	0.19	ug/m ³	62.9		90.0	70-130			
Chlorobenzene	39.4	2.3	0.28	ug/m ³	46.0		85.5	70-130			
Chloroethane	25.0	1.3	0.066	ug/m ³	26.4		94.6	70-130			
Chloroform	43.2	2.4	0.26	ug/m ³	48.8		88.5	70-130			
Chloromethane	19.7	1.0	0.058	ug/m ³	20.6		95.6	70-130			
cis-1,2-Dichloroethene	37.3	2.0	0.075	ug/m ³	39.6		94.0	70-130			
cis-1,3-Dichloropropene	40.5	2.3	0.31	ug/m ³	45.4		89.3	70-130			
Cyclohexane	29.8	1.7	0.10	ug/m ³	34.4		86.6	70-130			
Dibromochloromethane	73.1	4.3	0.43	ug/m ³	85.2		85.8	70-130			
Dichlorodifluoromethane	47.4	2.5	0.13	ug/m ³	49.5		95.8	70-130			
Dichlorotetrafluoroethane	67.2	3.5	0.15	ug/m ³	69.9		96.1	70-130			
Ethanol	16.9	0.94	0.15	ug/m ³	18.8		89.9	70-130			
Ethyl acetate	33.7	1.8	0.18	ug/m ³	36.0		93.4	70-130			
Ethylbenzene	39.1	0.87	0.25	ug/m ³	43.4		90.0	70-130			
Hexachlorobutadiene	86.1	5.3	0.69	ug/m ³	107		80.7	70-130			
Isopropyl alcohol	23.8	1.2	0.10	ug/m ³	24.6		96.8	70-130			
m,p-Xylene	75.1	1.7	0.48	ug/m ³	86.8		86.5	70-130			
Methyl butyl ketone	39.3	2.0	0.26	ug/m ³	41.0		96.0	70-130			
Methyl isobutyl ketone	38.0	2.0	0.32	ug/m ³	41.0		92.8	70-130			
Methyl tert-butyl ether	34.1	1.8	0.21	ug/m ³	36.1		94.7	70-130			
Methylene chloride	31.7	1.7	0.15	ug/m ³	34.7		91.2	70-130			
Naphthalene	42.5	2.6	0.14	ug/m ³	52.4		81.1	70-130			
n-Heptane	38.3	2.0	0.13	ug/m ³	41.0		93.4	70-130			
n-Hexane	32.7	1.8	0.056	ug/m ³	35.2		92.8	70-130			
o-Xylene	37.7	0.87	0.20	ug/m ³	43.4		86.8	70-130			
Propylene	16.5	0.86	0.031	ug/m ³	17.2		96.0	70-130			
Styrene	37.8	2.1	0.20	ug/m ³	42.6		88.7	70-130			
Tetrachloroethene	59.7	3.4	0.24	ug/m ³	67.8		88.0	70-130			
Tetrahydrofuran	25.4	1.5	0.26	ug/m ³	29.5		86.0	70-130			
Toluene	33.4	0.75	0.22	ug/m ³	37.7		88.7	70-130			
trans-1,2-Dichloroethene	36.5	2.0	0.063	ug/m ³	39.6		92.0	70-130			
trans-1,3-Dichloropropene	40.5	2.3	0.25	ug/m ³	45.4		89.3	70-130			
Trichloroethene	47.7	2.7	0.25	ug/m ³	53.7		88.7	70-130			

Landmark Environmental 2042 West 98th Street Bloomington, MN 55431	Project: TO-15 Project Number: CRC Project Manager: Mr. Jason Skramstad	Work Order #: 1105251 Date Reported: 11/04/11
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VOC - AIR - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
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Batch B1J3121 - TO-15

LCS (B1J3121-BS1)

Prepared & Analyzed: 10/27/11

Trichlorofluoromethane	56.1	2.8	0.14	ug/m ³	56.2		99.8	70-130			
Trichlorotrifluoroethane	73.4	3.8	0.18	ug/m ³	76.6		95.8	70-130			
Vinyl acetate	32.5	1.8	0.20	ug/m ³	35.2		92.4	70-130			
Vinyl chloride	24.3	1.3	0.069	ug/m ³	25.6		95.2	70-130			

Duplicate (B1J3121-DUP1)

Source: 1105251-01

Prepared: 10/27/11 Analyzed: 10/28/11

1,1,1-Trichloroethane	< 14	14	0.95	ug/m ³		<14			NA	25	
1,1,1,2-Tetrachloroethane	< 17	17	2.8	ug/m ³		<17			NA	25	
1,1,1,2-Trichloroethane	< 14	14	1.8	ug/m ³		<14			NA	25	
1,1-Dichloroethane	< 10	10	0.34	ug/m ³		<10			NA	25	
1,1-Dichloroethene	< 10	10	0.34	ug/m ³		<10			NA	25	
1,2,4-Trichlorobenzene	< 18	18	0.65	ug/m ³		<18			NA	25	
1,2,4-Trimethylbenzene	< 4.9	4.9	1.4	ug/m ³		<4.9			NA	25	
1,2-Dibromoethane	< 19	19	2.4	ug/m ³		<19			NA	25	
1,2-Dichlorobenzene	< 15	15	1.6	ug/m ³		<15			NA	25	
1,2-Dichloroethane	< 10	10	0.70	ug/m ³		<10			NA	25	
1,2-Dichloropropane	< 12	12	1.5	ug/m ³		<12			NA	25	
1,3,5-Trimethylbenzene	< 4.9	4.9	1.4	ug/m ³		<4.9			NA	25	
1,3-Butadiene	< 5.5	5.5	0.65	ug/m ³		<5.5			NA	25	
1,3-Dichlorobenzene	< 15	15	1.4	ug/m ³		<15			NA	25	
1,4-Dichlorobenzene	< 15	15	1.4	ug/m ³		<15			NA	25	
2-Butanone	12.2	7.5	0.80	ug/m ³		10.6		13.6		25	
4-Ethyltoluene	< 12	12	1.4	ug/m ³		<12			NA	25	
Acetone	28.9	6.0	1.4	ug/m ³		25.2		13.7		25	
Benzene	< 3.2	3.2	0.75	ug/m ³		<3.2			NA	25	
Benzyl chloride	< 13	13	1.4	ug/m ³		<13			NA	25	
Bromodichloromethane	< 17	17	1.2	ug/m ³		<17			NA	25	
Bromoform	< 26	26	2.5	ug/m ³		<26			NA	25	
Bromomethane	< 9.5	9.5	0.70	ug/m ³		<9.5			NA	25	
Carbon disulfide	< 8.0	8.0	0.34	ug/m ³		<8.0			NA	25	
Carbon tetrachloride	< 16	16	0.95	ug/m ³		<16			NA	25	
Chlorobenzene	< 12	12	1.4	ug/m ³		<12			NA	25	
Chloroethane	< 6.5	6.5	0.33	ug/m ³		<6.5			NA	25	
Chloroform	< 12	12	1.3	ug/m ³		<12			NA	25	
Chloromethane	< 5.0	5.0	0.29	ug/m ³		<5.0			NA	25	
cis-1,2-Dichloroethene	< 10	10	0.38	ug/m ³		<10			NA	25	
cis-1,3-Dichloropropene	< 12	12	1.6	ug/m ³		<12			NA	25	
Cyclohexane	< 8.5	8.5	0.50	ug/m ³		<8.5			NA	25	
Dibromochloromethane	< 22	22	2.2	ug/m ³		<22			NA	25	
Dichlorodifluoromethane	< 12	12	0.65	ug/m ³		<12			NA	25	

Landmark Environmental 2042 West 98th Street Bloomington, MN 55431	Project: TO-15 Project Number: CRC Project Manager: Mr. Jason Skramstad	Work Order #: 1105251 Date Reported: 11/04/11
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VOC - AIR - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
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Batch B1J3121 - TO-15

Duplicate (B1J3121-DUP1)

Source: 1105251-01

Prepared: 10/27/11 Analyzed: 10/28/11

Dichlorotetrafluoroethane	< 18	18	0.75	ug/m ³		<18			NA	25	
Ethanol	83.2	4.7	0.75	ug/m ³		81.5			2.15	25	
Ethyl acetate	< 9.0	9.0	0.90	ug/m ³		<9.0			NA	25	
Ethylbenzene	< 4.4	4.4	1.2	ug/m ³		<4.4			NA	25	
Hexachlorobutadiene	< 26	26	3.4	ug/m ³		<26			NA	25	
Isopropyl alcohol	17.5	6.0	0.50	ug/m ³		16.4			6.00	25	
m,p-Xylene	< 8.5	8.5	2.4	ug/m ³		<8.5			NA	25	
Methyl butyl ketone	< 10	10	1.3	ug/m ³		<10			NA	25	
Methyl isobutyl ketone	< 10	10	1.6	ug/m ³		<10			NA	25	
Methyl tert-butyl ether	< 9.0	9.0	1.0	ug/m ³		<9.0			NA	25	
Methylene chloride	16.4	8.5	0.75	ug/m ³		14.6			11.3	25	
Naphthalene	< 13	13	0.70	ug/m ³		<13			NA	25	
n-Heptane	< 10	10	0.65	ug/m ³		<10			NA	25	
n-Hexane	< 9.0	9.0	0.28	ug/m ³		<9.0			NA	25	
o-Xylene	< 4.4	4.4	1.0	ug/m ³		<4.4			NA	25	
Propylene	< 4.3	4.3	0.16	ug/m ³		<4.3			NA	25	
Styrene	< 10	10	1.0	ug/m ³		<10			NA	25	
Tetrachloroethene	185	17	1.2	ug/m ³		177			4.80	25	
Tetrahydrofuran	< 7.5	7.5	1.3	ug/m ³		<7.5			NA	25	
Toluene	< 3.8	3.8	1.1	ug/m ³		<3.8			NA	25	
trans-1,2-Dichloroethene	< 10	10	0.32	ug/m ³		<10			NA	25	
trans-1,3-Dichloropropene	< 12	12	1.2	ug/m ³		<12			NA	25	
Trichloroethene	< 14	14	1.2	ug/m ³		<14			NA	25	
Trichlorofluoromethane	< 14	14	0.70	ug/m ³		<14			NA	25	
Trichlorotrifluoroethane	10900	510	24	ug/m ³		10600			2.95	25	
Vinyl acetate	< 9.0	9.0	1.0	ug/m ³		<9.0			NA	25	
Vinyl chloride	< 6.5	6.5	0.34	ug/m ³		<6.5			NA	25	

Landmark Environmental 2042 West 98th Street Bloomington, MN 55431	Project: TO-15 Project Number: CRC Project Manager: Mr. Jason Skramstad	Work Order #: 1105251 Date Reported: 11/04/11
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TENTATIVELY IDENTIFIED COMPOUNDS - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
Batch B1J3121 - TO-15											
Blank (B1J3121-BLK1)											
Tentatively Identified Compounds	ND			ug/m ³							A-02

Landmark Environmental 2042 West 98th Street Bloomington, MN 55431	Project: TO-15 Project Number: CRC Project Manager: Mr. Jason Skramstad	Work Order #: 1105251 Date Reported: 11/04/11
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Notes and Definitions

T-1	MDH does not offer certification for this parameter.
A-02	No tentatively identified compounds (TICs) were present above 5.0 ppbv.
<	Less than value listed
NA	Not applicable. The %RPD is not calculated from values less than the reporting limit.
MDL	Method Detection Limit
RL	Reporting Limit
RPD	Relative Percent Difference
LCS	Laboratory Control Spike = Blank Spike (BS) = Laboratory Fortified Blank (LFB)

LEGEND TECHNICAL SERVICES, INC.
 88 Empire Drive, St. Paul, MN 55103 - Telephone: 651-642-1150, Fax: 651-642-1239
 CHAIN-OF-CUSTODY RECORD

Page ___ of ___

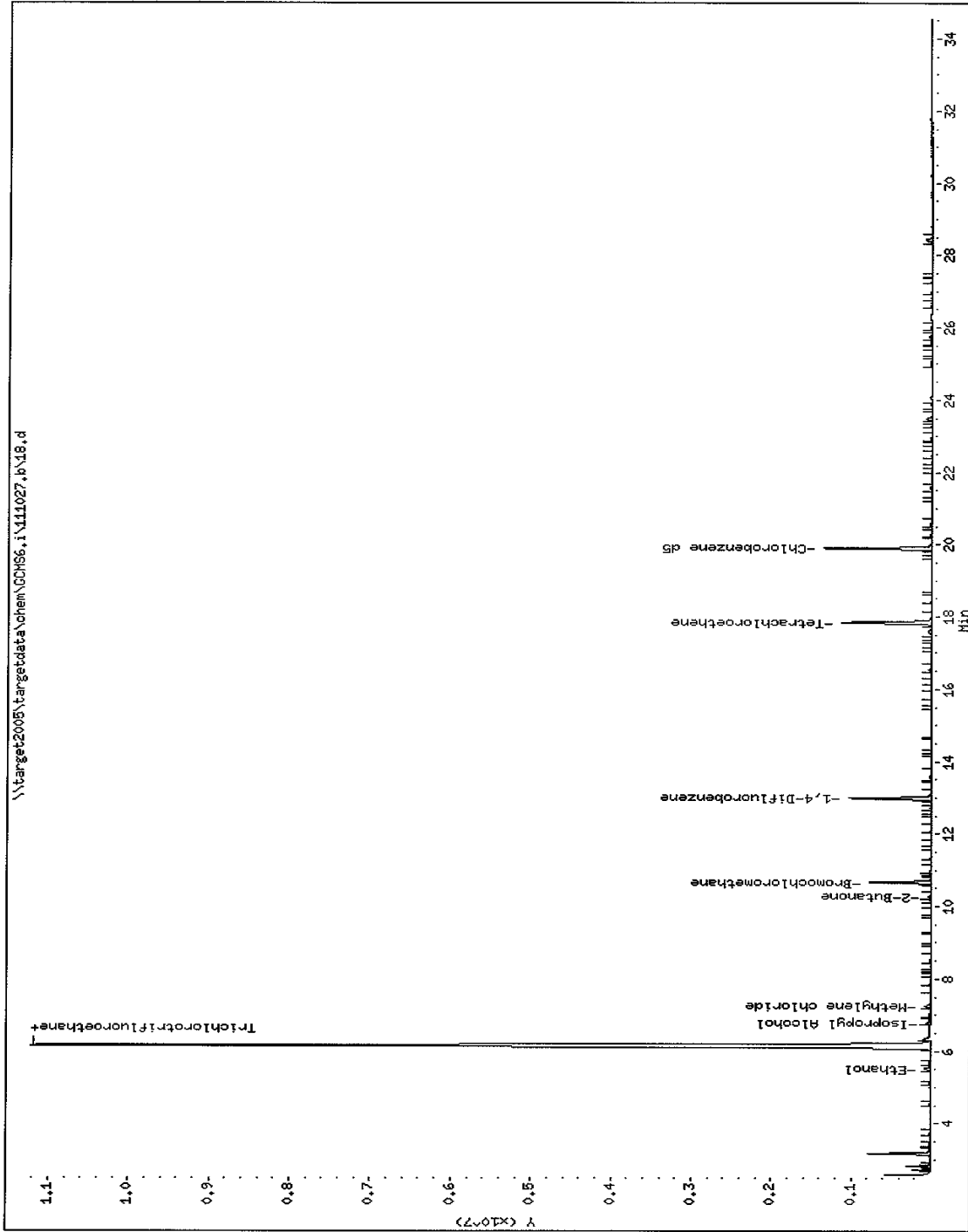
Client Name: JASON SKRAMSTAD		LEGEND Project #: 1105251		TO-15 (M) WITCs Air Analysis									
Address: Landmark ENV		Legend Time: <input checked="" type="checkbox"/> Normal <input type="checkbox"/> RUSH		Project Comments:									
Address: 2042 West 58th Street Bloomington		Requested Due Date:											
Attn: PO# CRC		Client Project Number: CRC											
Phone:		Client Project Name: CRC											
Bill To: Landmark ENV		Time Collected		PID Reading									
Address: 2042 West 58th Street Bloomington		Start Stop		Start Stop									
PO# CRC		Pressure (Psi)		Flow Cont. Serial #									
Fax:		Start Stop		Date Collected									
Item No.	Field ID / Sample ID	Cannister Serial #	Flow Cont. Serial #	Pressure (Psi)	Date Collected	Time Collected	Start	Stop	Total Time	Flow Cont. Serial #	PID Reading	Sample Comments	
1	DPE-Exhaust	MC1000AT	01193	8.00	13:30	14:27	13:30	14:27	55h		✓ N15		
2													
3													
4													
5													
6													
7													
8													
9													
10													
Sample Collector (please print): Eric Larson		Requisitioned By: [Signature]		Date: 10/27/11		Time: 5:10pm		Accepted By: [Signature]		Date: 10/27/11		Time: 5:10pm	
Comments:		Requisitioned By:		Date:		Time:		Received By Leg:		Date:		Time:	

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Form LAB-304 (12/05)

Page 1

Data File: \\target2005\targetdata\chem\GCHS6.i\111027,b\18.d
 Date : 28-OCT-2011 11:08
 Client ID: DPE-Exhaust
 Sample Info: 1106251-01 1:5
 Purge Volume: 1.0
 Column phase:
 Instrument: GCHS6.i
 Operator: SLH
 Column diameter: 0.20



November 03, 2011

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

RE: Project: CRC CITY OF ROCHESTER
Pace Project No.: 10174025

Dear Mr. Skramstad:

Enclosed are the analytical results for sample(s) received by the laboratory on October 27, 2011. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards, where applicable, unless otherwise narrated 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



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: CRC CITY OF ROCHESTER

Pace Project No.: 10174025

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

REPORT OF LABORATORY ANALYSIS

SAMPLE SUMMARY

Project: CRC CITY OF ROCHESTER

Pace Project No.: 10174025

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10174025001	AS-INFLUENT	Water	10/27/11 08:20	10/27/11 12:18
10174025002	AS-EFFLUENT	Water	10/27/11 08:30	10/27/11 12:18

REPORT OF LABORATORY ANALYSIS

SAMPLE ANALYTE COUNT

Project: CRC CITY OF ROCHESTER

Pace Project No.: 10174025

Lab ID	Sample ID	Method	Analysts	Analytes Reported
10174025001	AS-INFLUENT	EPA 624	ECB	82
10174025002	AS-EFFLUENT	EPA 624	ECB	82

REPORT OF LABORATORY ANALYSIS

ANALYTICAL RESULTS

Project: CRC CITY OF ROCHESTER

Pace Project No.: 10174025

Sample: AS-INFLUENT	Lab ID: 10174025001	Collected: 10/27/11 08:20	Received: 10/27/11 12:18	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		11/03/11 01:26	67-64-1	
Acrolein	ND ug/L		10.0	1		11/03/11 01:26	107-02-8	L3
Acrylonitrile	ND ug/L		10.0	1		11/03/11 01:26	107-13-1	
Allyl chloride	ND ug/L		4.0	1		11/03/11 01:26	107-05-1	
Benzene	ND ug/L		1.0	1		11/03/11 01:26	71-43-2	
Bromobenzene	ND ug/L		1.0	1		11/03/11 01:26	108-86-1	
Bromochloromethane	ND ug/L		1.0	1		11/03/11 01:26	74-97-5	
Bromodichloromethane	ND ug/L		1.0	1		11/03/11 01:26	75-27-4	
Bromoform	ND ug/L		4.0	1		11/03/11 01:26	75-25-2	
Bromomethane	ND ug/L		4.0	1		11/03/11 01:26	74-83-9	
2-Butanone (MEK)	ND ug/L		4.0	1		11/03/11 01:26	78-93-3	
n-Butylbenzene	ND ug/L		1.0	1		11/03/11 01:26	104-51-8	
sec-Butylbenzene	ND ug/L		1.0	1		11/03/11 01:26	135-98-8	
tert-Butylbenzene	ND ug/L		1.0	1		11/03/11 01:26	98-06-6	
Carbon disulfide	ND ug/L		1.0	1		11/03/11 01:26	75-15-0	
Carbon tetrachloride	ND ug/L		1.0	1		11/03/11 01:26	56-23-5	
Chlorobenzene	ND ug/L		1.0	1		11/03/11 01:26	108-90-7	
Chloroethane	ND ug/L		1.0	1		11/03/11 01:26	75-00-3	
2-Chloroethylvinyl ether	ND ug/L		10.0	1		11/03/11 01:26	110-75-8	
Chloroform	ND ug/L		1.0	1		11/03/11 01:26	67-66-3	
Chloromethane	ND ug/L		4.0	1		11/03/11 01:26	74-87-3	
Chloroprene	ND ug/L		1.0	1		11/03/11 01:26	126-99-8	
2-Chlorotoluene	ND ug/L		1.0	1		11/03/11 01:26	95-49-8	
4-Chlorotoluene	ND ug/L		1.0	1		11/03/11 01:26	106-43-4	
1,2-Dibromo-3-chloropropane	ND ug/L		4.0	1		11/03/11 01:26	96-12-8	
Dibromochloromethane	ND ug/L		1.0	1		11/03/11 01:26	124-48-1	
1,2-Dibromoethane (EDB)	ND ug/L		1.0	1		11/03/11 01:26	106-93-4	
Dibromomethane	ND ug/L		4.0	1		11/03/11 01:26	74-95-3	
1,2-Dichlorobenzene	ND ug/L		1.0	1		11/03/11 01:26	95-50-1	
1,3-Dichlorobenzene	ND ug/L		1.0	1		11/03/11 01:26	541-73-1	
1,4-Dichlorobenzene	ND ug/L		1.0	1		11/03/11 01:26	106-46-7	
Dichlorodifluoromethane	ND ug/L		1.0	1		11/03/11 01:26	75-71-8	
1,1-Dichloroethane	ND ug/L		1.0	1		11/03/11 01:26	75-34-3	
1,2-Dichloroethane	ND ug/L		1.0	1		11/03/11 01:26	107-06-2	
1,1-Dichloroethene	ND ug/L		1.0	1		11/03/11 01:26	75-35-4	
cis-1,2-Dichloroethene	ND ug/L		1.0	1		11/03/11 01:26	156-59-2	
trans-1,2-Dichloroethene	ND ug/L		4.0	1		11/03/11 01:26	156-60-5	
Dichlorofluoromethane	ND ug/L		1.0	1		11/03/11 01:26	75-43-4	
1,2-Dichloropropane	ND ug/L		4.0	1		11/03/11 01:26	78-87-5	
1,3-Dichloropropane	ND ug/L		1.0	1		11/03/11 01:26	142-28-9	
2,2-Dichloropropane	ND ug/L		4.0	1		11/03/11 01:26	594-20-7	
1,1-Dichloropropene	ND ug/L		1.0	1		11/03/11 01:26	563-58-6	
cis-1,3-Dichloropropene	ND ug/L		4.0	1		11/03/11 01:26	10061-01-5	
trans-1,3-Dichloropropene	ND ug/L		4.0	1		11/03/11 01:26	10061-02-6	
Diethyl ether (Ethyl ether)	ND ug/L		4.0	1		11/03/11 01:26	60-29-7	
Ethylbenzene	ND ug/L		1.0	1		11/03/11 01:26	100-41-4	
Hexachloro-1,3-butadiene	ND ug/L		5.0	1		11/03/11 01:26	87-68-3	

Date: 11/03/2011 05:06 PM

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: CRC CITY OF ROCHESTER

Pace Project No.: 10174025

Sample: AS-INFLUENT		Lab ID: 10174025001	Collected: 10/27/11 08:20	Received: 10/27/11 12:18	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
624 MSV		Analytical Method: EPA 624						
2-Hexanone	ND	ug/L	4.0	1		11/03/11 01:26	591-78-6	
Iodomethane	ND	ug/L	4.0	1		11/03/11 01:26	74-88-4	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		11/03/11 01:26	98-82-8	
p-Isopropyltoluene	ND	ug/L	1.0	1		11/03/11 01:26	99-87-6	
Methylene Chloride	ND	ug/L	10.0	1		11/03/11 01:26	75-09-2	
2-Methylnaphthalene	ND	ug/L	5.0	1		11/03/11 01:26	91-57-6	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	4.0	1		11/03/11 01:26	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		11/03/11 01:26	1634-04-4	
Naphthalene	ND	ug/L	4.0	1		11/03/11 01:26	91-20-3	
n-Propylbenzene	ND	ug/L	1.0	1		11/03/11 01:26	103-65-1	
Styrene	ND	ug/L	1.0	1		11/03/11 01:26	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		11/03/11 01:26	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		11/03/11 01:26	79-34-5	
Tetrachloroethene	40.3	ug/L	1.0	1		11/03/11 01:26	127-18-4	
Tetrahydrofuran	ND	ug/L	10.0	1		11/03/11 01:26	109-99-9	
Toluene	ND	ug/L	1.0	1		11/03/11 01:26	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		11/03/11 01:26	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		11/03/11 01:26	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		11/03/11 01:26	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		11/03/11 01:26	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		11/03/11 01:26	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		11/03/11 01:26	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	4.0	1		11/03/11 01:26	96-18-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/L	1.0	1		11/03/11 01:26	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1		11/03/11 01:26	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1		11/03/11 01:26	108-67-8	
Vinyl acetate	ND	ug/L	10.0	1		11/03/11 01:26	108-05-4	
Vinyl chloride	ND	ug/L	0.40	1		11/03/11 01:26	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		11/03/11 01:26	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		11/03/11 01:26	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		11/03/11 01:26	95-47-6	
Dibromofluoromethane (S)	115	%	75-125	1		11/03/11 01:26	1868-53-7	
4-Bromofluorobenzene (S)	102	%	75-125	1		11/03/11 01:26	460-00-4	
Toluene-d8 (S)	95	%	75-125	1		11/03/11 01:26	2037-26-5	
1,2-Dichloroethane-d4 (S)	115	%	75-125	1		11/03/11 01:26	17060-07-0	

ANALYTICAL RESULTS

Project: CRC CITY OF ROCHESTER

Pace Project No.: 10174025

Sample: AS-EFFLUENT	Lab ID: 10174025002	Collected: 10/27/11 08:30	Received: 10/27/11 12:18	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		11/03/11 01:58	67-64-1	
Acrolein	ND ug/L		10.0	1		11/03/11 01:58	107-02-8	L3
Acrylonitrile	ND ug/L		10.0	1		11/03/11 01:58	107-13-1	
Allyl chloride	ND ug/L		4.0	1		11/03/11 01:58	107-05-1	
Benzene	ND ug/L		1.0	1		11/03/11 01:58	71-43-2	
Bromobenzene	ND ug/L		1.0	1		11/03/11 01:58	108-86-1	
Bromochloromethane	ND ug/L		1.0	1		11/03/11 01:58	74-97-5	
Bromodichloromethane	ND ug/L		1.0	1		11/03/11 01:58	75-27-4	
Bromoform	ND ug/L		4.0	1		11/03/11 01:58	75-25-2	
Bromomethane	ND ug/L		4.0	1		11/03/11 01:58	74-83-9	
2-Butanone (MEK)	ND ug/L		4.0	1		11/03/11 01:58	78-93-3	
n-Butylbenzene	ND ug/L		1.0	1		11/03/11 01:58	104-51-8	
sec-Butylbenzene	ND ug/L		1.0	1		11/03/11 01:58	135-98-8	
tert-Butylbenzene	ND ug/L		1.0	1		11/03/11 01:58	98-06-6	
Carbon disulfide	ND ug/L		1.0	1		11/03/11 01:58	75-15-0	
Carbon tetrachloride	ND ug/L		1.0	1		11/03/11 01:58	56-23-5	
Chlorobenzene	ND ug/L		1.0	1		11/03/11 01:58	108-90-7	
Chloroethane	ND ug/L		1.0	1		11/03/11 01:58	75-00-3	
2-Chloroethylvinyl ether	ND ug/L		10.0	1		11/03/11 01:58	110-75-8	
Chloroform	ND ug/L		1.0	1		11/03/11 01:58	67-66-3	
Chloromethane	ND ug/L		4.0	1		11/03/11 01:58	74-87-3	
Chloroprene	ND ug/L		1.0	1		11/03/11 01:58	126-99-8	
2-Chlorotoluene	ND ug/L		1.0	1		11/03/11 01:58	95-49-8	
4-Chlorotoluene	ND ug/L		1.0	1		11/03/11 01:58	106-43-4	
1,2-Dibromo-3-chloropropane	ND ug/L		4.0	1		11/03/11 01:58	96-12-8	
Dibromochloromethane	ND ug/L		1.0	1		11/03/11 01:58	124-48-1	
1,2-Dibromoethane (EDB)	ND ug/L		1.0	1		11/03/11 01:58	106-93-4	
Dibromomethane	ND ug/L		4.0	1		11/03/11 01:58	74-95-3	
1,2-Dichlorobenzene	ND ug/L		1.0	1		11/03/11 01:58	95-50-1	
1,3-Dichlorobenzene	ND ug/L		1.0	1		11/03/11 01:58	541-73-1	
1,4-Dichlorobenzene	ND ug/L		1.0	1		11/03/11 01:58	106-46-7	
Dichlorodifluoromethane	ND ug/L		1.0	1		11/03/11 01:58	75-71-8	
1,1-Dichloroethane	ND ug/L		1.0	1		11/03/11 01:58	75-34-3	
1,2-Dichloroethane	ND ug/L		1.0	1		11/03/11 01:58	107-06-2	
1,1-Dichloroethene	ND ug/L		1.0	1		11/03/11 01:58	75-35-4	
cis-1,2-Dichloroethene	ND ug/L		1.0	1		11/03/11 01:58	156-59-2	
trans-1,2-Dichloroethene	ND ug/L		4.0	1		11/03/11 01:58	156-60-5	
Dichlorofluoromethane	ND ug/L		1.0	1		11/03/11 01:58	75-43-4	
1,2-Dichloropropane	ND ug/L		4.0	1		11/03/11 01:58	78-87-5	
1,3-Dichloropropane	ND ug/L		1.0	1		11/03/11 01:58	142-28-9	
2,2-Dichloropropane	ND ug/L		4.0	1		11/03/11 01:58	594-20-7	
1,1-Dichloropropene	ND ug/L		1.0	1		11/03/11 01:58	563-58-6	
cis-1,3-Dichloropropene	ND ug/L		4.0	1		11/03/11 01:58	10061-01-5	
trans-1,3-Dichloropropene	ND ug/L		4.0	1		11/03/11 01:58	10061-02-6	
Diethyl ether (Ethyl ether)	ND ug/L		4.0	1		11/03/11 01:58	60-29-7	
Ethylbenzene	ND ug/L		1.0	1		11/03/11 01:58	100-41-4	
Hexachloro-1,3-butadiene	ND ug/L		5.0	1		11/03/11 01:58	87-68-3	

ANALYTICAL RESULTS

Project: CRC CITY OF ROCHESTER

Pace Project No.: 10174025

Sample: AS-EFFLUENT		Lab ID: 10174025002	Collected: 10/27/11 08:30	Received: 10/27/11 12:18	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
624 MSV		Analytical Method: EPA 624						
2-Hexanone	ND	ug/L	4.0	1		11/03/11 01:58	591-78-6	
Iodomethane	ND	ug/L	4.0	1		11/03/11 01:58	74-88-4	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		11/03/11 01:58	98-82-8	
p-Isopropyltoluene	ND	ug/L	1.0	1		11/03/11 01:58	99-87-6	
Methylene Chloride	ND	ug/L	10.0	1		11/03/11 01:58	75-09-2	
2-Methylnaphthalene	ND	ug/L	5.0	1		11/03/11 01:58	91-57-6	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	4.0	1		11/03/11 01:58	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		11/03/11 01:58	1634-04-4	
Naphthalene	ND	ug/L	4.0	1		11/03/11 01:58	91-20-3	
n-Propylbenzene	ND	ug/L	1.0	1		11/03/11 01:58	103-65-1	
Styrene	ND	ug/L	1.0	1		11/03/11 01:58	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		11/03/11 01:58	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		11/03/11 01:58	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		11/03/11 01:58	127-18-4	
Tetrahydrofuran	ND	ug/L	10.0	1		11/03/11 01:58	109-99-9	
Toluene	ND	ug/L	1.0	1		11/03/11 01:58	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		11/03/11 01:58	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		11/03/11 01:58	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		11/03/11 01:58	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		11/03/11 01:58	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		11/03/11 01:58	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		11/03/11 01:58	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	4.0	1		11/03/11 01:58	96-18-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/L	1.0	1		11/03/11 01:58	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1		11/03/11 01:58	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1		11/03/11 01:58	108-67-8	
Vinyl acetate	ND	ug/L	10.0	1		11/03/11 01:58	108-05-4	
Vinyl chloride	ND	ug/L	0.40	1		11/03/11 01:58	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		11/03/11 01:58	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		11/03/11 01:58	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		11/03/11 01:58	95-47-6	
Dibromofluoromethane (S)	114	%	75-125	1		11/03/11 01:58	1868-53-7	
4-Bromofluorobenzene (S)	101	%	75-125	1		11/03/11 01:58	460-00-4	
Toluene-d8 (S)	95	%	75-125	1		11/03/11 01:58	2037-26-5	
1,2-Dichloroethane-d4 (S)	116	%	75-125	1		11/03/11 01:58	17060-07-0	

QUALITY CONTROL DATA

Project: CRC CITY OF ROCHESTER

Pace Project No.: 10174025

QC Batch: MSV/18511 Analysis Method: EPA 624
QC Batch Method: EPA 624 Analysis Description: 624 MSV
Associated Lab Samples: 10174025001, 10174025002

METHOD BLANK: 1090752 Matrix: Water

Associated Lab Samples: 10174025001, 10174025002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	1.0	11/02/11 21:40	
1,1,1-Trichloroethane	ug/L	ND	1.0	11/02/11 21:40	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	11/02/11 21:40	
1,1,2-Trichloroethane	ug/L	ND	1.0	11/02/11 21:40	
1,1,2-Trichlorotrifluoroethane	ug/L	ND	1.0	11/02/11 21:40	
1,1-Dichloroethane	ug/L	ND	1.0	11/02/11 21:40	
1,1-Dichloroethene	ug/L	ND	1.0	11/02/11 21:40	
1,1-Dichloropropene	ug/L	ND	1.0	11/02/11 21:40	
1,2,3-Trichlorobenzene	ug/L	ND	1.0	11/02/11 21:40	
1,2,3-Trichloropropane	ug/L	ND	4.0	11/02/11 21:40	
1,2,4-Trichlorobenzene	ug/L	ND	1.0	11/02/11 21:40	
1,2,4-Trimethylbenzene	ug/L	ND	1.0	11/02/11 21:40	
1,2-Dibromo-3-chloropropane	ug/L	ND	4.0	11/02/11 21:40	
1,2-Dibromoethane (EDB)	ug/L	ND	1.0	11/02/11 21:40	
1,2-Dichlorobenzene	ug/L	ND	1.0	11/02/11 21:40	
1,2-Dichloroethane	ug/L	ND	1.0	11/02/11 21:40	
1,2-Dichloropropane	ug/L	ND	4.0	11/02/11 21:40	
1,3,5-Trimethylbenzene	ug/L	ND	1.0	11/02/11 21:40	
1,3-Dichlorobenzene	ug/L	ND	1.0	11/02/11 21:40	
1,3-Dichloropropane	ug/L	ND	1.0	11/02/11 21:40	
1,4-Dichlorobenzene	ug/L	ND	1.0	11/02/11 21:40	
2,2-Dichloropropane	ug/L	ND	4.0	11/02/11 21:40	
2-Butanone (MEK)	ug/L	ND	4.0	11/02/11 21:40	
2-Chloroethylvinyl ether	ug/L	ND	10.0	11/02/11 21:40	
2-Chlorotoluene	ug/L	ND	1.0	11/02/11 21:40	
2-Hexanone	ug/L	ND	4.0	11/02/11 21:40	
2-Methylnaphthalene	ug/L	ND	5.0	11/02/11 21:40	
4-Chlorotoluene	ug/L	ND	1.0	11/02/11 21:40	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	4.0	11/02/11 21:40	
Acetone	ug/L	ND	25.0	11/02/11 21:40	
Acrolein	ug/L	ND	10.0	11/02/11 21:40	
Acrylonitrile	ug/L	ND	10.0	11/02/11 21:40	
Allyl chloride	ug/L	ND	4.0	11/02/11 21:40	
Benzene	ug/L	ND	1.0	11/02/11 21:40	
Bromobenzene	ug/L	ND	1.0	11/02/11 21:40	
Bromochloromethane	ug/L	ND	1.0	11/02/11 21:40	
Bromodichloromethane	ug/L	ND	1.0	11/02/11 21:40	
Bromoform	ug/L	ND	4.0	11/02/11 21:40	
Bromomethane	ug/L	ND	4.0	11/02/11 21:40	
Carbon disulfide	ug/L	ND	1.0	11/02/11 21:40	
Carbon tetrachloride	ug/L	ND	1.0	11/02/11 21:40	
Chlorobenzene	ug/L	ND	1.0	11/02/11 21:40	
Chloroethane	ug/L	ND	1.0	11/02/11 21:40	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: CRC CITY OF ROCHESTER

Pace Project No.: 10174025

METHOD BLANK: 1090752

Matrix: Water

Associated Lab Samples: 10174025001, 10174025002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloroform	ug/L	ND	1.0	11/02/11 21:40	
Chloromethane	ug/L	ND	4.0	11/02/11 21:40	
Chloroprene	ug/L	ND	1.0	11/02/11 21:40	
cis-1,2-Dichloroethene	ug/L	ND	1.0	11/02/11 21:40	
cis-1,3-Dichloropropene	ug/L	ND	4.0	11/02/11 21:40	
Dibromochloromethane	ug/L	ND	1.0	11/02/11 21:40	
Dibromomethane	ug/L	ND	4.0	11/02/11 21:40	
Dichlorodifluoromethane	ug/L	ND	1.0	11/02/11 21:40	
Dichlorofluoromethane	ug/L	ND	1.0	11/02/11 21:40	
Diethyl ether (Ethyl ether)	ug/L	ND	4.0	11/02/11 21:40	
Ethylbenzene	ug/L	ND	1.0	11/02/11 21:40	
Hexachloro-1,3-butadiene	ug/L	ND	5.0	11/02/11 21:40	
Iodomethane	ug/L	ND	4.0	11/02/11 21:40	
Isopropylbenzene (Cumene)	ug/L	ND	1.0	11/02/11 21:40	
m&p-Xylene	ug/L	ND	2.0	11/02/11 21:40	
Methyl-tert-butyl ether	ug/L	ND	1.0	11/02/11 21:40	
Methylene Chloride	ug/L	ND	10.0	11/02/11 21:40	
n-Butylbenzene	ug/L	ND	1.0	11/02/11 21:40	
n-Propylbenzene	ug/L	ND	1.0	11/02/11 21:40	
Naphthalene	ug/L	ND	4.0	11/02/11 21:40	
o-Xylene	ug/L	ND	1.0	11/02/11 21:40	
p-Isopropyltoluene	ug/L	ND	1.0	11/02/11 21:40	
sec-Butylbenzene	ug/L	ND	1.0	11/02/11 21:40	
Styrene	ug/L	ND	1.0	11/02/11 21:40	
tert-Butylbenzene	ug/L	ND	1.0	11/02/11 21:40	
Tetrachloroethene	ug/L	ND	1.0	11/02/11 21:40	
Tetrahydrofuran	ug/L	ND	10.0	11/02/11 21:40	
Toluene	ug/L	ND	1.0	11/02/11 21:40	
trans-1,2-Dichloroethene	ug/L	ND	4.0	11/02/11 21:40	
trans-1,3-Dichloropropene	ug/L	ND	4.0	11/02/11 21:40	
Trichloroethene	ug/L	ND	1.0	11/02/11 21:40	
Trichlorofluoromethane	ug/L	ND	1.0	11/02/11 21:40	
Vinyl acetate	ug/L	ND	10.0	11/02/11 21:40	
Vinyl chloride	ug/L	ND	0.40	11/02/11 21:40	
Xylene (Total)	ug/L	ND	3.0	11/02/11 21:40	
1,2-Dichloroethane-d4 (S)	%	109	75-125	11/02/11 21:40	
4-Bromofluorobenzene (S)	%	101	75-125	11/02/11 21:40	
Dibromofluoromethane (S)	%	110	75-125	11/02/11 21:40	
Toluene-d8 (S)	%	98	75-125	11/02/11 21:40	

LABORATORY CONTROL SAMPLE: 1090753

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	20	20.8	104	75-129	
1,1,1-Trichloroethane	ug/L	20	22.1	110	73-144	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: CRC CITY OF ROCHESTER

Pace Project No.: 10174025

LABORATORY CONTROL SAMPLE: 1090753

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,2,2-Tetrachloroethane	ug/L	20	21.4	107	75-125	
1,1,2-Trichloroethane	ug/L	20	20.3	102	75-125	
1,1,2-Trichlorotrifluoroethane	ug/L	20	22.5	112	75-143	
1,1-Dichloroethane	ug/L	20	22.4	112	75-135	
1,1-Dichloroethene	ug/L	20	21.7	109	75-133	
1,1-Dichloropropene	ug/L	20	22.0	110	75-131	
1,2,3-Trichlorobenzene	ug/L	20	20.9	104	73-141	
1,2,3-Trichloropropane	ug/L	20	20.8	104	75-126	
1,2,4-Trichlorobenzene	ug/L	20	21.0	105	70-148	
1,2,4-Trimethylbenzene	ug/L	20	20.6	103	75-141	
1,2-Dibromo-3-chloropropane	ug/L	20	20.3	102	64-135	
1,2-Dibromoethane (EDB)	ug/L	20	19.7	98	75-125	
1,2-Dichlorobenzene	ug/L	20	21.2	106	75-125	
1,2-Dichloroethane	ug/L	20	23.5	117	75-136	
1,2-Dichloropropane	ug/L	20	21.3	106	75-130	
1,3,5-Trimethylbenzene	ug/L	20	20.1	101	75-141	
1,3-Dichlorobenzene	ug/L	20	20.4	102	75-125	
1,3-Dichloropropane	ug/L	20	21.7	109	75-125	
1,4-Dichlorobenzene	ug/L	20	20.4	102	75-125	
2,2-Dichloropropane	ug/L	20	21.7	109	50-150	
2-Butanone (MEK)	ug/L	20	21.2	106	58-138	
2-Chloroethylvinyl ether	ug/L	50	52.8	106	50-150	
2-Chlorotoluene	ug/L	20	19.9	100	75-132	
2-Hexanone	ug/L	20	21.2	106	65-135	
2-Methylnaphthalene	ug/L	10	11.5	115	62-150	
4-Chlorotoluene	ug/L	20	20.4	102	75-135	
4-Methyl-2-pentanone (MIBK)	ug/L	20	22.1	111	69-137	
Acetone	ug/L	50	48.0	96	52-141	
Acrolein	ug/L	200	753	376	50-150	CH,L0,SS
Acrylonitrile	ug/L	200	237	119	75-130	
Allyl chloride	ug/L	20	21.1	106	68-150	
Benzene	ug/L	20	22.3	111	75-125	
Bromobenzene	ug/L	20	20.9	104	75-125	
Bromochloromethane	ug/L	20	23.2	116	75-129	
Bromodichloromethane	ug/L	20	22.7	113	75-142	
Bromoform	ug/L	20	20.6	103	66-135	
Bromomethane	ug/L	20	22.1	110	57-150	
Carbon disulfide	ug/L	20	20.6	103	65-132	
Carbon tetrachloride	ug/L	20	22.1	110	75-148	
Chlorobenzene	ug/L	20	20.5	103	75-125	
Chloroethane	ug/L	20	23.2	116	66-142	
Chloroform	ug/L	20	21.5	108	75-131	
Chloromethane	ug/L	20	22.0	110	52-147	
Chloroprene	ug/L	20	21.6	108	71-147	
cis-1,2-Dichloroethene	ug/L	20	22.7	113	75-126	
cis-1,3-Dichloropropene	ug/L	20	22.3	112	69-150	
Dibromochloromethane	ug/L	20	21.3	106	73-138	
Dibromomethane	ug/L	20	21.1	106	75-127	

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QUALITY CONTROL DATA

Project: CRC CITY OF ROCHESTER

Pace Project No.: 10174025

LABORATORY CONTROL SAMPLE: 1090753

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Dichlorodifluoromethane	ug/L	20	22.4	112	50-150	
Dichlorofluoromethane	ug/L	20	21.6	108	75-129	
Diethyl ether (Ethyl ether)	ug/L	20	23.0	115	75-126	
Ethylbenzene	ug/L	20	20.4	102	75-132	
Hexachloro-1,3-butadiene	ug/L	10	9.7	97	75-129	
Iodomethane	ug/L	20	23.5	117	73-150	
Isopropylbenzene (Cumene)	ug/L	20	20.4	102	75-142	
m&p-Xylene	ug/L	40	41.0	102	75-131	
Methyl-tert-butyl ether	ug/L	20	23.4	117	75-130	
Methylene Chloride	ug/L	20	21.9	109	71-125	
n-Butylbenzene	ug/L	20	20.7	103	70-148	
n-Propylbenzene	ug/L	20	20.1	101	75-136	
Naphthalene	ug/L	20	22.1	111	69-145	
o-Xylene	ug/L	20	21.0	105	75-129	
p-Isopropyltoluene	ug/L	20	20.1	101	75-132	
sec-Butylbenzene	ug/L	20	20.0	100	75-136	
Styrene	ug/L	20	21.5	108	75-125	
tert-Butylbenzene	ug/L	20	20.1	101	75-135	
Tetrachloroethene	ug/L	20	20.2	101	75-125	
Tetrahydrofuran	ug/L	200	229	115	63-144	
Toluene	ug/L	20	20.2	101	75-125	
trans-1,2-Dichloroethene	ug/L	20	22.2	111	72-135	
trans-1,3-Dichloropropene	ug/L	20	19.6	98	62-150	
Trichloroethene	ug/L	20	20.9	105	75-125	
Trichlorofluoromethane	ug/L	20	23.5	117	67-150	
Vinyl acetate	ug/L	20	23.8	119	55-150	
Vinyl chloride	ug/L	20	21.9	109	63-147	
Xylene (Total)	ug/L	60	61.9	103	75-130	
1,2-Dichloroethane-d4 (S)	%			114	75-125	
4-Bromofluorobenzene (S)	%			101	75-125	
Dibromofluoromethane (S)	%			107	75-125	
Toluene-d8 (S)	%			98	75-125	

MATRIX SPIKE SAMPLE: 1091404

Parameter	Units	10174065001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	20	19.4	97	70-136	
1,1,1-Trichloroethane	ug/L	ND	20	22.4	112	68-150	
1,1,2,2-Tetrachloroethane	ug/L	ND	20	20.0	100	75-125	
1,1,2-Trichloroethane	ug/L	ND	20	19.0	95	75-125	
1,1,2-Trichlorotrifluoroethane	ug/L	ND	20	28.2	141	75-150	
1,1-Dichloroethane	ug/L	ND	20	21.8	109	67-143	
1,1-Dichloroethene	ug/L	ND	20	22.3	112	75-147	
1,1-Dichloropropene	ug/L	ND	20	22.4	112	75-141	
1,2,3-Trichlorobenzene	ug/L	ND	20	19.0	95	71-141	
1,2,3-Trichloropropane	ug/L	ND	20	19.0	95	75-128	
1,2,4-Trichlorobenzene	ug/L	ND	20	19.2	96	61-148	

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QUALITY CONTROL DATA

Project: CRC CITY OF ROCHESTER

Pace Project No.: 10174025

MATRIX SPIKE SAMPLE:		1091404						
Parameter	Units	10174065001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers	
1,2,4-Trimethylbenzene	ug/L	ND	20	19.0	95	65-145		
1,2-Dibromo-3-chloropropane	ug/L	ND	20	19.2	96	64-135		
1,2-Dibromoethane (EDB)	ug/L	ND	20	18.3	92	75-126		
1,2-Dichlorobenzene	ug/L	ND	20	19.4	97	75-127		
1,2-Dichloroethane	ug/L	ND	20	21.9	109	70-138		
1,2-Dichloropropane	ug/L	ND	20	20.2	101	75-130		
1,3,5-Trimethylbenzene	ug/L	ND	20	18.9	94	61-150		
1,3-Dichlorobenzene	ug/L	ND	20	19.0	95	75-126		
1,3-Dichloropropane	ug/L	ND	20	20.0	100	75-125		
1,4-Dichlorobenzene	ug/L	ND	20	18.8	94	75-125		
2,2-Dichloropropane	ug/L	ND	20	20.9	105	50-150		
2-Butanone (MEK)	ug/L	ND	20	15.8	79	50-141		
2-Chloroethylvinyl ether	ug/L	ND	50	ND	0	50-150	M1	
2-Chlorotoluene	ug/L	ND	20	18.9	94	75-137		
2-Hexanone	ug/L	ND	20	15.8	79	66-135		
2-Methylnaphthalene	ug/L	ND	10	11.0	110	62-150		
4-Chlorotoluene	ug/L	ND	20	19.1	96	70-144		
4-Methyl-2-pentanone (MIBK)	ug/L	ND	20	21.0	105	62-142		
Acetone	ug/L	ND	50	27.0	54	50-150		
Acrolein	ug/L	ND	200	875	438	50-150	CH,M0,SS	
Acrylonitrile	ug/L	ND	200	218	109	70-135		
Allyl chloride	ug/L	ND	20	20.7	103	50-150		
Benzene	ug/L	ND	20	21.6	108	75-125		
Bromobenzene	ug/L	ND	20	19.2	96	75-125		
Bromochloromethane	ug/L	ND	20	21.4	107	73-137		
Bromodichloromethane	ug/L	ND	20	21.3	106	70-142		
Bromoform	ug/L	ND	20	18.2	91	55-135		
Bromomethane	ug/L	ND	20	24.5	123	50-150		
Carbon disulfide	ug/L	ND	20	17.9	89	50-150		
Carbon tetrachloride	ug/L	ND	20	22.6	113	64-150		
Chlorobenzene	ug/L	ND	20	19.5	97	75-125		
Chloroethane	ug/L	ND	20	25.0	125	59-150		
Chloroform	ug/L	ND	20	20.7	104	75-132		
Chloromethane	ug/L	ND	20	23.1	114	52-150		
Chloroprene	ug/L	ND	20	21.9	109	54-150		
cis-1,2-Dichloroethene	ug/L	3.3	20	25.0	109	64-144		
cis-1,3-Dichloropropene	ug/L	ND	20	20.9	104	56-150		
Dibromochloromethane	ug/L	ND	20	19.3	96	60-138		
Dibromomethane	ug/L	ND	20	19.5	97	75-127		
Dichlorodifluoromethane	ug/L	ND	20	31.2	156	50-150	M1	
Dichlorofluoromethane	ug/L	ND	20	22.0	110	74-142		
Diethyl ether (Ethyl ether)	ug/L	ND	20	21.4	107	75-127		
Ethylbenzene	ug/L	ND	20	19.9	99	75-134		
Hexachloro-1,3-butadiene	ug/L	ND	10	9.5	95	63-150		
Iodomethane	ug/L	ND	20	23.4	117	50-150		
Isopropylbenzene (Cumene)	ug/L	ND	20	20.0	100	69-147		
m&p-Xylene	ug/L	ND	40	39.2	98	75-133		
Methyl-tert-butyl ether	ug/L	ND	20	21.7	109	73-131		

QUALITY CONTROL DATA

Project: CRC CITY OF ROCHESTER

Pace Project No.: 10174025

MATRIX SPIKE SAMPLE: 1091404		10174065001	Spike	MS	MS	% Rec	
Parameter	Units	Result	Conc.	Result	% Rec	Limits	Qualifiers
Methylene Chloride	ug/L	ND	20	20.9	104	68-126	
n-Butylbenzene	ug/L	ND	20	20.1	100	59-150	
n-Propylbenzene	ug/L	ND	20	19.5	97	72-143	
Naphthalene	ug/L	ND	20	20.6	103	57-148	
o-Xylene	ug/L	ND	20	19.8	99	75-131	
p-Isopropyltoluene	ug/L	ND	20	19.3	97	75-137	
sec-Butylbenzene	ug/L	ND	20	19.4	97	75-144	
Styrene	ug/L	ND	20	19.6	98	75-134	
tert-Butylbenzene	ug/L	ND	20	19.4	97	68-150	
Tetrachloroethene	ug/L	ND	20	19.7	98	75-130	
Tetrahydrofuran	ug/L	ND	200	215	107	60-148	
Toluene	ug/L	ND	20	19.8	99	75-125	
trans-1,2-Dichloroethene	ug/L	ND	20	22.2	111	75-145	
trans-1,3-Dichloropropene	ug/L	ND	20	17.9	90	50-150	
Trichloroethene	ug/L	2.6	20	23.0	102	73-132	
Trichlorofluoromethane	ug/L	ND	20	28.0	140	67-150	
Vinyl acetate	ug/L	ND	20	21.2	106	50-150	
Vinyl chloride	ug/L	ND	20	24.1	119	63-150	
Xylene (Total)	ug/L	ND	60	59.0	98	72-138	
1,2-Dichloroethane-d4 (S)	%				109	75-125	
4-Bromofluorobenzene (S)	%				101	75-125	
Dibromofluoromethane (S)	%				109	75-125	
Toluene-d8 (S)	%				98	75-125	

SAMPLE DUPLICATE: 1091405

Parameter	Units	10174073001	Dup	RPD	Max	Qualifiers
		Result	Result		RPD	
1,1,1,2-Tetrachloroethane	ug/L	ND	ND		30	
1,1,1-Trichloroethane	ug/L	ND	ND		30	
1,1,2,2-Tetrachloroethane	ug/L	ND	ND		30	
1,1,2-Trichloroethane	ug/L	ND	ND		30	
1,1,2-Trichlorotrifluoroethane	ug/L	ND	ND		30	
1,1-Dichloroethane	ug/L	ND	ND		30	
1,1-Dichloroethene	ug/L	ND	ND		30	
1,1-Dichloropropene	ug/L	ND	ND		30	
1,2,3-Trichlorobenzene	ug/L	ND	ND		30	
1,2,3-Trichloropropane	ug/L	ND	ND		30	
1,2,4-Trichlorobenzene	ug/L	ND	ND		30	
1,2,4-Trimethylbenzene	ug/L	ND	ND		30	
1,2-Dibromo-3-chloropropane	ug/L	ND	ND		30	
1,2-Dibromoethane (EDB)	ug/L	ND	ND		30	
1,2-Dichlorobenzene	ug/L	ND	ND		30	
1,2-Dichloroethane	ug/L	ND	ND		30	
1,2-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	

QUALITY CONTROL DATA

Project: CRC CITY OF ROCHESTER

Pace Project No.: 10174025

SAMPLE DUPLICATE: 1091405

Parameter	Units	10174073001 Result	Dup Result	RPD	Max RPD	Qualifiers
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		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	

QUALITY CONTROL DATA

Project: CRC CITY OF ROCHESTER

Pace Project No.: 10174025

SAMPLE DUPLICATE: 1091405

Parameter	Units	10174073001 Result	Dup Result	RPD	Max RPD	Qualifiers
Tetrachloroethene	ug/L	ND	ND		30	
Tetrahydrofuran	ug/L	ND	7.8J		30	
Toluene	ug/L	ND	.54J		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)	%	110	114	4		
4-Bromofluorobenzene (S)	%	101	101	.05		
Dibromofluoromethane (S)	%	112	115	3		
Toluene-d8 (S)	%	95	93	1		

QUALIFIERS

Project: CRC CITY OF ROCHESTER

Pace Project No.: 10174025

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

CH	The continuing calibration for this compound is outside of Pace Analytical acceptance limits. The results may be biased high.
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.
M1	Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
SS	This analyte did not meet the secondary source verification criteria for the initial calibration. The reported result should be considered an estimated value.

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: CRC CITY OF ROCHESTER

Pace Project No.: 10174025

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10174025001	AS-INFLUENT	EPA 624	MSV/18511		
10174025002	AS-EFFLUENT	EPA 624	MSV/18511		

Attachment C

Petroleum Remediation Program Air Emissions Screening Spreadsheet

Soil Vapor Extraction (SVE) and/or Air Stripper (AS) Data Input Worksheet

Doc Type: Corrective Action Design

MPCA Leak ID: MN BIO BUSINESS CENTER		Enter SVE Standard Parameters		Enter AS Standard Parameters			
Sample Date: 7/25/2011		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):		60	Air Stripper Influent Flow Rate (L/s):		0.134
		Enter SVE Modeling Parameters (if applicable)		Enter AS Modeling Parameters (if applicable)			
		SVE Stack Diameter (inches):		AS Stack Diameter (inches):			
		SVE Stack Exit Velocity ² (feet per second):		AS Stack Exit Velocity ² (feet per second):			
		SVE Stack Exit Temperature (°F):		AS Stack Exit Temperature (°F):			
		SVE Annual Dispersion Factor ((µg/m ³)/g/s)		Contact MPCA	AS Annual Dispersion Factor ((µg/m ³)/g/s)		Contact MPCA
		SVE 1-hr Dispersion Factor ((µg/m ³)/g/s)		Contact MPCA	AS 1-hr Dispersion Factor ((µg/m ³)/g/s)		Contact MPCA
Chemical Name	CAS #	SVE Emission Concentration (µg/m ³)	SVE Emission Rate (µg/sec)	AS Influent Groundwater Concentration (µg/L)	AS Effluent Groundwater Concentration (µg/L)	Removal Factor (dimensionless)	AS Emission Rate (µg/sec)
Acetone	67-64-1	83	2				
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	27	1				
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	198	6				
Ethyl acetate	141-78-6						
Ethylbenzene	100-41-4						
4-Ethyltoluene	622-96-8						
n-Heptane	142-82-5						
Hexachloro-1,3-butadiene	87-68-3						
n-Hexane	110-54-3						
2-Hexanone (Methyl butyl ketone)	591-78-6						
4-Methyl-2-pentanone (Methyl isobutyl ketone, MIBK)	108-10-1						
Methylene chloride (Dichloromethane)	75-09-2						
Methyl-tert-butyl ether (MTBE)	1634-04-4						
Naphthalene	91-20-3						
2-Propanol (Isopropyl alcohol)	67-63-0						

Petroleum Remediation Program Air Emissions Screening Spreadsheet

Soil Vapor Extraction (SVE) and/or Air Stripper (AS) Data Input Worksheet

Doc Type: Corrective Action Design

MPCA Leak ID: MN BIO BUSINESS CENTER		Enter SVE Standard Parameters		Enter AS Standard Parameters					
Sample Date: 7/25/2011		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):		60	Air Stripper Influent Flow Rate (L/s):		0.134		
		Enter SVE Modeling Parameters (if applicable)		Enter AS Modeling Parameters (if applicable)					
		SVE Stack Diameter (inches):				AS Stack Diameter (inches):			
		SVE Stack Exit Velocity ² (feet per second):				AS Stack Exit Velocity ² (feet per second):			
		SVE Stack Exit Temperature (°F):				AS Stack Exit Temperature (°F):			
		SVE Annual Dispersion Factor ((µg/m ³)/g/s)		Contact MPCA		AS Annual Dispersion Factor ((µg/m ³)/g/s)		Contact MPCA	
SVE 1-hr Dispersion Factor ((µg/m ³)/g/s)		Contact MPCA		AS 1-hr Dispersion Factor ((µg/m ³)/g/s)		Contact MPCA			
Chemical Name	CAS #	SVE Emission Concentration (µg/m ³)	SVE Emission Rate (µg/sec)	AS Influent Groundwater Concentration (µg/L)	AS Effluent Groundwater Concentration (µg/L)	Removal Factor (dimensionless)	AS Emission Rate (µg/sec)		
Propylene (methylene or propene)	115-07-1								
Styrene	100-42-5								
1,1,2,2-Tetrachloroethane	79-34-5								
Tetrachloroethylene (PCE)	127-18-4	308	9	37	0	1.00	5		
Tetrahydrofuran	109-99-9								
Toluene (Methylbenzene)	108-88-3								
1,2,4-Trichlorobenzene	120-82-1								
1,1,1-Trichloroethane (Methyl chloroform)	71-55-6								
1,1,2-Trichloroethane	79-00-5								
Trichloroethylene (TCE)	79-01-6								
Trichlorofluoromethane (Freon 11)	75-69-4								
Trichlorotrifluoroethane (Freon 113)	76-13-1	8,250	232						
1,2,4-Trimethylbenzene	95-63-6								
1,3,5-Trimethylbenzene	108-67-8								
Vinyl acetate	108-05-4								
Vinyl chloride	75-01-4								
m&p-Xylene	108-38-3								
o-Xylene	95-47-6								

¹SCFM = standard cubic feet per minute based on a standard temperature of 77° F (25° C, 298.15 K) and a standard pressure of 1 atmosphere (14.7 pounds per square inch, 29.92 inches of mercury, 760 millimeters of mercury).

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

Petroleum Remediation Program Air Emissions Screening Spreadsheet

Soil Vapor Extraction and/or Air Stripper Risk Evaluation Worksheet

Doc Type: Corrective Action Design

MPCA Leak ID: MN BIO BUSINESS CENTER
 Sample Date: 7/25/2011
 Person Completing Worksheet: KAB

Chemical Name	CAS #	Acute Mixtures Evaluation				Chronic Noncancer Mixtures Evaluation									Excess Lifetime Cancer Risk (guideline value = 1E-5)	
		Acute Hazard Quotient	CNS	IRRIT	REPRO	Chronic Noncancer Hazard Quotient	CNS	CV/BLD	IMMUN	KIDN	LIVER/GI	REPRO	RESP	WHOLE BODY		
Acetone	67-64-1	0.0	0.0			0.0	0.0									
Benzene	71-43-2															
Benzyl chloride	100-44-7															
Bromodichloromethane	75-27-4															
Bromoform	75-25-2															
Bromomethane (Methyl bromide)	74-83-9															
1,3-Butadiene	106-99-0															
2-Butanone (Methyl ethyl ketone, MEK)	78-93-3	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															
Chloromethane (Methyl chloride)	74-87-3															
Cyclohexane	110-82-7															
Dibromochloromethane	124-48-1															
1,2-Dibromoethane (Ethylene dibromide, EDB)	106-93-4															
1,2-Dichlorobenzene	95-50-1															
1,3-Dichlorobenzene	541-73-1															
1,4-Dichlorobenzene	106-46-7															
1,1-Dichloroethane	75-34-3															
1,2-Dichloroethane (DCA)	107-06-2															
1,1-Dichloroethene (DCE)	75-35-4															
cis-1,2-Dichloroethene	156-59-2															
trans-1,2-Dichloroethene	156-60-5															
Dichlorodifluoromethane (Freon 12)	75-71-8															
1,2-Dichloropropane	78-87-5															
cis-1,3-Dichloropropene*	10061-01-5															
trans-1,3-Dichloropropene*	10061-02-6															
Dichlorotetrafluoroethane (Freon 114)	76-14-2															
Ethanol	64-17-5	0.0		0.0		0.0						0.0				
Ethyl acetate	141-78-6															
Ethylbenzene	100-41-4															
4-Ethyltoluene	622-96-8															
n-Heptane	142-82-5															
Hexachloro-1,3-butadiene	87-68-3															
n-Hexane	110-54-3															
2-Hexanone (Methyl butyl ketone)	591-78-6															
4-Methyl-2-pentanone (Methyl isobutyl ketone, MIBK)	108-10-1															
Methylene chloride (Dichloromethane)	75-09-2															
Methyl-tert-butyl ether (MTBE)	1634-04-4															
Naphthalene	91-20-3															
2-Propanol (Isopropyl alcohol)	67-63-0															
Propylene (methylethylene or propene)	115-07-1															
Styrene	100-42-5															
1,1,1,2-Tetrachloroethane	79-34-5															
Tetrachloroethylene (PCE)	127-18-4	0.0	0.0	0.0		0.0	0.0									1E-08
Tetrahydrofuran	109-99-9															

MPCA Leak ID: MN BIO BUSINESS CENTER

Sample Date: 7/25/2011

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	0.0	0.0	1.1E-08

NOTES:

* based on 1,3-Dichloropropene (CAS # 542-75-6)

** based on total Xylenes (CAS # 1330-20-7)

In general, total excess lifetime cancer risk is not to exceed 1E-5 and a hazard index (or chemical-specific hazard quotient) is not to exceed 1. The additive results are shown with one decimal point, which is intended to show transparency with the addition of risk but not to imply a level of precision greater than one significant figure. Risk managers may want to round to one significant figure when comparing to a cancer risk of 1E-5 or a hazard index of 1. Exceedance of these levels, which are bolded in text when met or exceeded, may require air emission controls.

CNS = Central Nervous System

CV/BLD = Cardiovascular or Blood System

IMMUN = Immune System

IRRIT = Irritant (nasal, eye, throat irritation)

KIDN = Kidney

LIVER/GI = Liver/Gastrointestinal

REPRO = Reproductive System, including developmental effects

RESP = Respiratory System

Petroleum Remediation Program Air Emissions Screening Spreadsheet Soil Vapor Extraction (SVE) and/or Air Stripper (AS) Data Input Worksheet

Doc Type: Corrective Action Design

MPCA Leak ID: MN BIO BUSINESS CENTER		Enter SVE Standard Parameters		Enter AS Standard Parameters			
Sample Date: 8/28/2011		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):		69	Air Stripper Influent Flow Rate (L/s):		0.134
		Enter SVE Modeling Parameters (if applicable)		Enter AS Modeling Parameters (if applicable)			
		SVE Stack Diameter (inches):		AS Stack Diameter (inches):			
		SVE Stack Exit Velocity ² (feet per second):		AS Stack Exit Velocity ² (feet per second):			
		SVE Stack Exit Temperature (°F):		AS Stack Exit Temperature (°F):			
		SVE Annual Dispersion Factor ((µg/m ³)/g/s)		Contact MPCA	AS Annual Dispersion Factor ((µg/m ³)/g/s)		Contact MPCA
		SVE 1-hr Dispersion Factor ((µg/m ³)/g/s)		Contact MPCA	AS 1-hr Dispersion Factor ((µg/m ³)/g/s)		Contact MPCA
Chemical Name	CAS #	SVE Emission Concentration (µg/m ³)	SVE Emission Rate (µg/sec)	AS Influent Groundwater Concentration (µg/L)	AS Effluent Groundwater Concentration (µg/L)	Removal Factor (dimensionless)	AS Emission Rate (µg/sec)
Acetone	67-64-1	53	2				
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					5	
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	121	4				
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						

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: 8/28/2011		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):		69	Air Stripper Influent Flow Rate (L/s):		0.134		
		Enter SVE Modeling Parameters (if applicable)		Enter AS Modeling Parameters (if applicable)					
		SVE Stack Diameter (inches):				AS Stack Diameter (inches):			
		SVE Stack Exit Velocity ² (feet per second):				AS Stack Exit Velocity ² (feet per second):			
		SVE Stack Exit Temperature (°F):				AS Stack Exit Temperature (°F):			
		SVE Annual Dispersion Factor ((µg/m ³)/g/s)		Contact MPCA		AS Annual Dispersion Factor ((µg/m ³)/g/s)		Contact MPCA	
SVE 1-hr Dispersion Factor ((µg/m ³)/g/s)		Contact MPCA		AS 1-hr Dispersion Factor ((µg/m ³)/g/s)		Contact MPCA			
Chemical Name	CAS #	SVE Emission Concentration (µg/m ³)	SVE Emission Rate (µg/sec)	AS Influent Groundwater Concentration (µg/L)	AS Effluent Groundwater Concentration (µg/L)	Removal Factor (dimensionless)	AS Emission Rate (µg/sec)		
Styrene	100-42-5								
1,1,2,2-Tetrachloroethane	79-34-5								
Tetrachloroethylene (PCE)	127-18-4			51	0	1.00	7		
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	8,150	264						
Trichlorotrifluoroethane (Freon 113)	76-13-1								
1,2,4-Trimethylbenzene	95-63-6								
1,3,5-Trimethylbenzene	108-67-8								
Vinyl acetate	108-05-4								
Vinyl chloride	75-01-4								
m&p-Xylene	108-38-3								
o-Xylene	95-47-6								

¹SCFM = standard cubic feet per minute based on a standard temperature of 77°F (25°C, 298.15 K) and a standard pressure of 1 atmosphere (14.7 pounds per square inch, 29.92 inches of mercury, 760 millimeters of mercury).

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

MPCA Leak ID: MN BIO BUSINESS CENTER

Sample Date: 8/28/2011

Person Completing Worksheet: KAB

Chemical Name	CAS #	Acute Mixtures Evaluation				Chronic Noncancer Mixtures Evaluation									Excess Lifetime Cancer Risk (guideline value = 1E-5)	
		Acute Hazard Quotient	CNS	IRRIT	REPRO	Chronic Noncancer Hazard Quotient	CNS	CV/BLD	IMMUN	KIDN	LIVER/GI	REPRO	RESP	WHOLE BODY		
Acetone	67-64-1	0.0	0.0			0.0	0.0									
Benzene	71-43-2															
Benzyl chloride	100-44-7															
Bromodichloromethane	75-27-4															
Bromoform	75-25-2															
Bromomethane (Methyl bromide)	74-83-9															
1,3-Butadiene	106-99-0															
2-Butanone (Methyl ethyl ketone, MEK)	78-93-3															
Carbon disulfide	75-15-0															
Carbon tetrachloride	56-23-5															
Chlorobenzene	108-90-7															
Chloroethane (Ethyl chloride)	75-00-3															
Chloroform	67-66-3															
Chloromethane (Methyl chloride)	74-87-3															
Cyclohexane	110-82-7															
Dibromochloromethane	124-48-1															
1,2-Dibromoethane (Ethylene dibromide, EDB)	106-93-4															
1,2-Dichlorobenzene	95-50-1															
1,3-Dichlorobenzene	541-73-1															
1,4-Dichlorobenzene	106-46-7															
1,1-Dichloroethane	75-34-3															
1,2-Dichloroethane (DCA)	107-06-2															
1,1-Dichloroethene (DCE)	75-35-4															
cis-1,2-Dichloroethene	156-59-2															
trans-1,2-Dichloroethene	156-60-5															
Dichlorodifluoromethane (Freon 12)	75-71-8															
1,2-Dichloropropane	78-87-5															
cis-1,3-Dichloropropene*	10061-01-5															
trans-1,3-Dichloropropene*	10061-02-6															
Dichlorotetrafluoroethane (Freon 114)	76-14-2															
Ethanol	64-17-5	0.0		0.0		0.0						0.0				
Ethyl acetate	141-78-6															
Ethylbenzene	100-41-4															
4-Ethyltoluene	622-96-8															
n-Heptane	142-82-5															
Hexachloro-1,3-butadiene	87-68-3															
n-Hexane	110-54-3															
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															
1,1,1,2-Tetrachloroethane	79-34-5															
Tetrachloroethylene (PCE)	127-18-4	0.0	0.0	0.0		0.0	0.0									5E-09
Tetrahydrofuran	109-99-9															

MPCA Leak ID: MN BIO BUSINESS CENTER
 Sample Date: 8/28/2011
 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					0.0				0.0			0.0				
Trichlorotrifluoroethane (Freon 113)	76-13-1																
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			5.5E-09

NOTES:

* based on 1,3-Dichloropropene (CAS # 542-75-6)
 ** based on total Xylenes (CAS # 1330-20-7)

In general, total excess lifetime cancer risk is not to exceed 1E-5 and a hazard index (or chemical-specific hazard quotient) is not to exceed 1. The additive results are shown with one decimal point, which is intended to show transparency with the addition of risk but not to imply a level of precision greater than one significant figure. Risk managers may want to round to one significant figure when comparing to a cancer risk of 1E-5 or a hazard index of 1. Exceedance of these levels, which are bolded in text when met or exceeded, may require air emission controls.

CNS = Central Nervous System
 CV/BLD = Cardiovascular or Blood System
 IMMUN = Immune System
 IRRIT = Irritant (nasal, eye, throat irritation)
 KIDN = Kidney
 LIVER/GI = Liver/Gastrointestinal
 REPRO = Reproductive System, including developmental effects
 RESP = Respiratory System

Petroleum Remediation Program Air Emissions Screening Spreadsheet Soil Vapor Extraction (SVE) and/or Air Stripper (AS) Data Input Worksheet

Doc Type: Corrective Action Design

MPCA Leak ID: MN BIO BUSINESS CENTER		Enter SVE Standard Parameters		Enter AS Standard Parameters			
Sample Date: 9/29/2011		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):		60	Air Stripper Influent Flow Rate (L/s):		0.038
		Enter SVE Modeling Parameters (if applicable)		Enter AS Modeling Parameters (if applicable)			
		SVE Stack Diameter (inches):		AS Stack Diameter (inches):			
		SVE Stack Exit Velocity ² (feet per second):		AS Stack Exit Velocity ² (feet per second):			
		SVE Stack Exit Temperature (°F):		AS Stack Exit Temperature (°F):			
		SVE Annual Dispersion Factor ((µg/m ³)/g/s)		Contact MPCA	AS Annual Dispersion Factor ((µg/m ³)/g/s)		Contact MPCA
		SVE 1-hr Dispersion Factor ((µg/m ³)/g/s)		Contact MPCA	AS 1-hr Dispersion Factor ((µg/m ³)/g/s)		Contact MPCA
Chemical Name	CAS #	SVE Emission Concentration (µg/m ³)	SVE Emission Rate (µg/sec)	AS Influent Groundwater Concentration (µg/L)	AS Effluent Groundwater Concentration (µg/L)	Removal Factor (dimensionless)	AS Emission Rate (µg/sec)
Acetone	67-64-1	58	2				
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	80	2		7		
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	49	1				
trans-1,2-Dichloroethene	156-60-5						
Dichlorodifluoromethane (Freon 12)	75-71-8						
1,2-Dichloropropane	78-87-5						
cis-1,3-Dichloropropene	10061-01-5						
trans-1,3-Dichloropropene	10061-02-6						
Dichlorotetrafluoroethane (Freon 114)	76-14-2						
Ethanol	64-17-5						
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						

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: 9/29/2011		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):		60	Air Stripper Influent Flow Rate (L/s):		0.038		
		Enter SVE Modeling Parameters (if applicable)		Enter AS Modeling Parameters (if applicable)					
		SVE Stack Diameter (inches):				AS Stack Diameter (inches):			
		SVE Stack Exit Velocity ² (feet per second):				AS Stack Exit Velocity ² (feet per second):			
		SVE Stack Exit Temperature (°F):				AS Stack Exit Temperature (°F):			
		SVE Annual Dispersion Factor ((µg/m ³)/g/s)		Contact MPCA		AS Annual Dispersion Factor ((µg/m ³)/g/s)		Contact MPCA	
SVE 1-hr Dispersion Factor ((µg/m ³)/g/s)		Contact MPCA		AS 1-hr Dispersion Factor ((µg/m ³)/g/s)		Contact MPCA			
Chemical Name	CAS #	SVE Emission Concentration (µg/m ³)	SVE Emission Rate (µg/sec)	AS Influent Groundwater Concentration (µg/L)	AS Effluent Groundwater Concentration (µg/L)	Removal Factor (dimensionless)	AS Emission Rate (µg/sec)		
Styrene	100-42-5								
1,1,2,2-Tetrachloroethane	79-34-5								
Tetrachloroethylene (PCE)	127-18-4	3,420	97	45					
Tetrahydrofuran	109-99-9								
Toluene (Methylbenzene)	108-88-3	30	1						
1,2,4-Trichlorobenzene	120-82-1								
1,1,1-Trichloroethane (Methyl chloroform)	71-55-6								
1,1,2-Trichloroethane	79-00-5								
Trichloroethylene (TCE)	79-01-6	22	1						
Trichlorofluoromethane (Freon 11)	75-69-4								
Trichlorotrifluoroethane (Freon 113)	76-13-1	103,000	2,912						
1,2,4-Trimethylbenzene	95-63-6	51	1						
1,3,5-Trimethylbenzene	108-67-8								
Vinyl acetate	108-05-4								
Vinyl chloride	75-01-4								
m&p-Xylene	108-38-3								
o-Xylene	95-47-6								

¹SCFM = standard cubic feet per minute based on a standard temperature of 77°F (25°C, 298.15 K) and a standard pressure of 1 atmosphere (14.7 pounds per square inch, 29.92 inches of mercury, 760 millimeters of mercury).

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

Petroleum Remediation Program Air Emissions Screening Spreadsheet

Soil Vapor Extraction and/or Air Stripper Risk Evaluation Worksheet

Doc Type: Corrective Action Design

MPCA Leak ID: MN BIO BUSINESS CENTER

Sample Date: 9/29/2011

Person Completing Worksheet: KAB

Chemical Name	CAS #	Acute Mixtures Evaluation				Chronic Noncancer Mixtures Evaluation								Excess Lifetime Cancer Risk (guideline value = 1E-5)		
		Acute Hazard Quotient	CNS	IRRIT	REPRO	Chronic Noncancer Hazard Quotient	CNS	CV/BLD	IMMUN	KIDN	LIVER/GI	REPRO	RESP		WHOLE BODY	
Acetone	67-64-1	0.0	0.0			0.0	0.0									
Benzene	71-43-2															
Benzyl chloride	100-44-7															
Bromodichloromethane	75-27-4															
Bromoform	75-25-2															
Bromomethane (Methyl bromide)	74-83-9															
1,3-Butadiene	106-99-0															
2-Butanone (Methyl ethyl ketone, MEK)	78-93-3	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															
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 (methylene ethylene 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									8E-08
Tetrahydrofuran	109-99-9															
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															

MPCA Leak ID: MN BIO BUSINESS CENTER

Sample Date: 9/29/2011

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		
1,1,2-Trichloroethane	79-00-5																
Trichloroethylene (TCE)	79-01-6	0.0			0.0	0.0	0.0										3E-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																
o-Xylene**	95-47-6																
Hazard Index:				0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.1E-08

NOTES:

* based on 1,3-Dichloropropene (CAS # 542-75-6)

** based on total Xylenes (CAS # 1330-20-7)

In general, total excess lifetime cancer risk is not to exceed 1E-5 and a hazard index (or chemical-specific hazard quotient) is not to exceed 1. The additive results are shown with one decimal point, which is intended to show transparency with the addition of risk but not to imply a level of precision greater than one significant figure. Risk managers may want to round to one significant figure when comparing to a cancer risk of 1E-5 or a hazard index of 1. Exceedance of these levels, which are bolded in text when met or exceeded, may require air emission controls.

CNS = Central Nervous System

CV/BLD = Cardiovascular or Blood System

IMMUN = Immune System

IRRIT = Irritant (nasal, eye, throat irritation)

KIDN = Kidney

LIVER/GI = Liver/Gastrointestinal

REPRO = Reproductive System, including developmental effects

RESP = Respiratory System

Petroleum Remediation Program Air Emissions Screening Spreadsheet Soil Vapor Extraction (SVE) and/or Air Stripper (AS) Data Input Worksheet

Doc Type: Corrective Action Design

MPCA Leak ID: MN BIO BUSINESS CENTER		Enter SVE Standard Parameters		Enter AS Standard Parameters				
Sample Date: 10/27/2011		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):		52	Air Stripper Influent Flow Rate (L/s):		0.012	
		Enter SVE Modeling Parameters (if applicable)		Enter AS Modeling Parameters (if applicable)				
		SVE Stack Diameter (inches):		AS Stack Diameter (inches):				
		SVE Stack Exit Velocity ² (feet per second):		AS Stack Exit Velocity ² (feet per second):				
		SVE Stack Exit Temperature (°F):		AS Stack Exit Temperature (°F):				
		SVE Annual Dispersion Factor ((µg/m ³)/g/s)		Contact MPCA	AS Annual Dispersion Factor ((µg/m ³)/g/s)		Contact MPCA	
		SVE 1-hr Dispersion Factor ((µg/m ³)/g/s)		Contact MPCA	AS 1-hr Dispersion Factor ((µg/m ³)/g/s)		Contact MPCA	
Chemical Name	CAS #	SVE Emission Concentration (µg/m ³)	SVE Emission Rate (µg/sec)	AS Influent Groundwater Concentration (µg/L)	AS Effluent Groundwater Concentration (µg/L)	Removal Factor (dimensionless)	AS Emission Rate (µg/sec)	
Acetone	67-64-1	25	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	11	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							
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	81	2					
Ethyl acetate	141-78-6							
Ethylbenzene	100-41-4							
4-Ethyltoluene	622-96-8							
n-Heptane	142-82-5							
Hexachloro-1,3-butadiene	87-68-3							
n-Hexane	110-54-3							
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	15	0					
Methyl-tert-butyl ether (MTBE)	1634-04-4							
Naphthalene	91-20-3							
2-Propanol (Isopropyl alcohol)	67-63-0	16	0					
Propylene (methylethylene or propene)	115-07-1							

Petroleum Remediation Program Air Emissions Screening Spreadsheet Soil Vapor Extraction (SVE) and/or Air Stripper (AS) Data Input Worksheet

Doc Type: Corrective Action Design

MPCA Leak ID: MN BIO BUSINESS CENTER		Enter SVE Standard Parameters		Enter AS Standard Parameters					
Sample Date: 10/27/2011		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):		52	Air Stripper Influent Flow Rate (L/s):		0.012		
		Enter SVE Modeling Parameters (if applicable)		Enter AS Modeling Parameters (if applicable)					
		SVE Stack Diameter (inches):				AS Stack Diameter (inches):			
		SVE Stack Exit Velocity ² (feet per second):				AS Stack Exit Velocity ² (feet per second):			
		SVE Stack Exit Temperature (°F):				AS Stack Exit Temperature (°F):			
		SVE Annual Dispersion Factor ((µg/m ³)/g/s)		Contact MPCA		AS Annual Dispersion Factor ((µg/m ³)/g/s)		Contact MPCA	
SVE 1-hr Dispersion Factor ((µg/m ³)/g/s)		Contact MPCA		AS 1-hr Dispersion Factor ((µg/m ³)/g/s)		Contact MPCA			
Chemical Name	CAS #	SVE Emission Concentration (µg/m ³)	SVE Emission Rate (µg/sec)	AS Influent Groundwater Concentration (µg/L)	AS Effluent Groundwater Concentration (µg/L)	Removal Factor (dimensionless)	AS Emission Rate (µg/sec)		
Styrene	100-42-5								
1,1,2,2-Tetrachloroethane	79-34-5								
Tetrachloroethylene (PCE)	127-18-4	180	4	40	0	1.00	0		
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	11,000	272						
1,2,4-Trimethylbenzene	95-63-6								
1,3,5-Trimethylbenzene	108-67-8								
Vinyl acetate	108-05-4								
Vinyl chloride	75-01-4								
m&p-Xylene	108-38-3								
o-Xylene	95-47-6								

¹SCFM = standard cubic feet per minute based on a standard temperature of 77°F (25°C, 298.15 K) and a standard pressure of 1 atmosphere (14.7 pounds per square inch, 29.92 inches of mercury, 760 millimeters of mercury).

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

Petroleum Remediation Program Air Emissions Screening Spreadsheet

Soil Vapor Extraction and/or Air Stripper Risk Evaluation Worksheet

Doc Type: Corrective Action Design

MPCA Leak ID: MN BIO BUSINESS CENTER
 Sample Date: 10/27/2011
 Person Completing Worksheet: KAB

Chemical Name	CAS #	Acute Mixtures Evaluation				Chronic Noncancer Mixtures Evaluation								Excess Lifetime Cancer Risk (guideline value = 1E-5)	
		Acute Hazard Quotient	CNS	IRRIT	REPRO	Chronic Noncancer Hazard Quotient	CNS	CV/BLD	IMMUN	KIDN	LIVER/GI	REPRO	RESP		WHOLE BODY
Acetone	67-64-1	0.0	0.0			0.0	0.0								
Benzene	71-43-2														
Benzyl chloride	100-44-7														
Bromodichloromethane	75-27-4														
Bromoform	75-25-2														
Bromomethane (Methyl bromide)	74-83-9														
1,3-Butadiene	106-99-0														
2-Butanone (Methyl ethyl ketone, MEK)	78-93-3	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														
Chloromethane (Methyl chloride)	74-87-3														
Cyclohexane	110-82-7														
Dibromochloromethane	124-48-1														
1,2-Dibromoethane (Ethylene dibromide, EDB)	106-93-4														
1,2-Dichlorobenzene	95-50-1														
1,3-Dichlorobenzene	541-73-1														
1,4-Dichlorobenzene	106-46-7														
1,1-Dichloroethane	75-34-3														
1,2-Dichloroethane (DCA)	107-06-2														
1,1-Dichloroethene (DCE)	75-35-4														
cis-1,2-Dichloroethene	156-59-2														
trans-1,2-Dichloroethene	156-60-5														
Dichlorodifluoromethane (Freon 12)	75-71-8														
1,2-Dichloropropane	78-87-5														
cis-1,3-Dichloropropene*	10061-01-5														
trans-1,3-Dichloropropene*	10061-02-6														
Dichlorotetrafluoroethane (Freon 114)	76-14-2														
Ethanol	64-17-5	0.0		0.0		0.0						0.0			
Ethyl acetate	141-78-6														
Ethylbenzene	100-41-4														
4-Ethyltoluene	622-96-8														
n-Heptane	142-82-5														
Hexachloro-1,3-butadiene	87-68-3														
n-Hexane	110-54-3														
2-Hexanone (Methyl butyl ketone)	591-78-6														
4-Methyl-2-pentanone (Methyl isobutyl ketone, MIBK)	108-10-1														
Methylene chloride (Dichloromethane)	75-09-2	0.0	0.0			0.0	0.0	0.0							3E-10
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 (methylene ethylene 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-09
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														

MPCA Leak ID: MN BIO BUSINESS CENTER
 Sample Date: 10/27/2011
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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		
1,1,2-Trichloroethane	79-00-5																
Trichloroethylene (TCE)	79-01-6																
Trichlorofluoromethane (Freon 11)	75-69-4																
Trichlorotrifluoroethane (Freon 113)	76-13-1					0.0										0.0	
1,2,4-Trimethylbenzene	95-63-6																
1,3,5-Trimethylbenzene	108-67-8																
Vinyl acetate	108-05-4																
Vinyl chloride	75-01-4																
m&p-Xylene**	108-38-3																
o-Xylene**	95-47-6																
Hazard Index:			0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.3E-09

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