Landmark Environmental, LLC



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October 4, 2016 Sent via Email

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

Re: Soil Vapor, Groundwater, Active VMS and DPE System Monitoring Report MN Bio Business Center, Rochester, MN

Dear Mr. Timm and Mr. Olson:

On behalf of the City of Rochester (City), Landmark Environmental, LLC (Landmark) has prepared this letter report (Report) to present quarterly groundwater and semiannual soil vapor monitoring results, and monthly dual phase extraction (DPE) system monitoring from the above referenced property (Property), shown in **Figure 1**. This Report documents quarterly groundwater monitoring results from sampling events on December 14, 2015, January 11 and February 24, 2016, and May 18, 2016; and semiannual soil vapor monitoring results from sampling events on January 12 and February 24, 2016, and June 23, 2016.

After approximately two years of monitoring the groundwater and soil vapor following shut off of the DPE system, on December 14, 2015, Landmark re-started the DPE system. DPE system maintenance, monitoring, and/or sampling events were completed on December 14, 2015 and in 2016 on January 11, 12, February 23 and 24, March 21 and 30, April 20, May 17, and June 16, 20, 23, and 29.

After observing some rebound in soil vapor concentrations while the DPE system was not operating, the vapor mitigation system (VMS) was converted from a passive to an active system. The active VMS first began operating on September 8, 2015, and continued operating through December 15, 2015, at which point it was turned off. The active VMS began operating again on May 17, 2016 and it remains operational.

Background

The Minnesota Pollution Control Agency (MPCA) has requested groundwater monitoring at the Property since 2009, to evaluate the effectiveness of the dual phase extraction (DPE) system, which originally started up on June 29, 2009. During its operation, the configuration of the DPE system was adjusted based on groundwater volatile organic compound (VOC) concentrations in the DPE wells, DPE VOC emissions concentrations, and DPE well photo-ionization detector readings collected during monthly monitoring and sampling events. In its Quarterly Groundwater Monitoring and Dual Phase Extraction System Effectiveness Report dated July 31, 2013, Landmark recommended shutdown of the DPE system.



The MPCA approved DPE system shut down in an email dated October 7, 2013. That email requested the following modifications to Landmark's proposal:

- Regarding the recommendation for permanent shut down shut down is approved however, the DPE system installation should be maintained so that it can be restarted in the event that groundwater and/or vapor monitoring concentrations significantly rebound.
- Regarding discontinued sampling of certain monitoring wells staff recommends the
 groundwater sampling of the entire monitoring well network, in order to determine the effects
 of discontinued DPE system operation. (After obtaining quarterly data after shut-down, staff
 may approve the recommendation for reducing the monitoring well network and/or sampling
 frequency.)
- Due to the PCE groundwater concentration fluctuations associated with changing groundwater elevations, staff requests that the Voluntary Party investigate alternative technologies to address the residual or source area contamination. For example, the application of an enhanced biodegradation agent(s) using the existing DPE ports and wells.

In the December 11, 2013, Quarterly Groundwater Monitoring and Dual Phase Extraction System Effectiveness Report Landmark recommended the following:

"Landmark and the City will decommission and remove the DPE system from the building, per MPCA's approval, if the soil vapor and groundwater concentrations do not exceed the following levels after one year of monitoring with the DPE system off (through August 2014):

- \circ Ten times (10X) the industrial intrusion screening value (IISV) of 600 micrograms per cubic meter (μ g/m³) at LSG-7 (the south monitoring location beneath Dolittle's restaurant); or,
- One hundred times (100X) the IISV of 6,000 μg/m³ at LSG-8 (bordering the east sidewalk and street), LSG-9 (beneath the north slab-on-grade section of the building which has a vapor barrier and venting system), and LSG-10 (bordering the west alley); or,
- \circ 10X the health risk limit (HRL) for tetrachloroethene (PCE) of 70 micrograms per liter (μ g/L) at downgradient and sidegradient monitoring wells MW-14, MW-15, and MW-19.
- The City will continue quarterly groundwater sampling and semiannual soil gas sampling through August 2014."

In an email dated January 15, 2014, the MPCA approved these recommendations with the following comments:

Approve the current report



- The high concentrations of PCE in the groundwater in the area of the elevator shaft and sump SP-2 are a source of the PCE vapors in the sump and drain tile system. The PCE vapor concentrations are high enough that the sub-slab ventilation system may need to be active rather than passive.
- Continued vapor monitoring is needed in this area to determine if additional remediation of the source area is needed.
- Agree with Landmarks recommendation to monitor groundwater and soil gas for one year. After one year the MPCA will re-evaluate the groundwater and soil gas concentration trends and make a determination regarding:
 - Will natural attenuation and passive sub-slab vapor mitigation be adequate at the site?
 - Should the remediation system be restarted to further reduce concentration in the groundwater?
 - Should alternative technologies such as in-situ enhanced bio-degradation or chemical oxidization be used to further reduce PCE concentrations in the source area? These may be used in conjunction with the DPE system.
- At this time the highest PCE concentration was 6,980 ug/l at DPE-3, which is approximately 1,400 times the HRL of 5, ug/l. (The report incorrectly states that the HRL is 7 ug/l.) There are no wells located to the north of DPE-3 to help define the extent of the groundwater contamination.
- Because the impacted groundwater is in a karst aquifer, it is difficult to determine where the
 impacted groundwater from the source area is migrating. Therefore the extent of the
 contamination may not be adequately determined and the contamination may have to be
 remediated to a lower level than it is currently at.
- The significant fluctuations in PCE concentrations when the groundwater elevations increased during the spring of 2013 indicate that significant contamination may be remaining in the fractures and pore spaces in the bedrock at the site.

Following shutdown of the DPE system on August 26, 2013, some rebound in VOC concentrations, was observed in the groundwater and soil vapor on the Property. Therefore, a meeting with Landmark, MPCA, and the City was held on March 17, 2015, to discuss the next steps for the Property. MPCA requested additional groundwater response actions including repairing and restarting the DPE system, operating the DPE system for one to six months, and applying an in-situ groundwater injection remediation technology at select DPE wells to remediate residual VOC contamination in the fractured bedrock. In addition, the MPCA-requested additional soil vapor response actions, which included converting the passive venting system to an active VMS in the summer of 2015.

On May 25, 2016, the MPCA adopted interim ISVs for select contaminants, including PCE. The interim ISV for PCE, raised the applicable 10X IISV from 300 μ g/m³ to 330 μ g/m³. The Minnesota Department of Health (MDH) also lowered the HRL for PCE from 7 μ g/L to 5 μ g/L. Therefore, the site specific



screening values for PCE approved by the MPCA in January 15, 2014, would be 330 μ g/m³ as the applicable 10X IISV for LSG-7; 3,300 μ g/m³ as the applicable 100X IISV for LSG-8, LSG-9, and LSG-10; and 50 μ g/L as the 10X HRL.

Groundwater Monitoring Results

The DPE well groundwater hydrographs through May 17, 2016 (**Figure 2**) show a one to two foot fluctuation in groundwater elevation between the DPE system shut down in August 26, 2013 and DPE system restart on December 15, 2015. Similar groundwater elevation trends were observed in the monitoring well hydrographs shown in **Figure 3**. Groundwater flow interpretations are provided in **Figures 4 through 9**. The groundwater elevation data is provided in **Table 1**. Well construction information is provided in **Table 2**.

Per the MPCA's approval in an email dated December 14, 2009, analysis of the following natural attenuation parameters has been discontinued: dissolved calcium, dissolved organic carbon, dissolved iron, dissolved magnesium, methane, nitrate as nitrogen, sulfate, and sulfide. The prior natural attenuation data is provided in **Table 3**. The following field parameter data is collected at each well on a quarterly basis and is provided in **Table 4**: temperature, conductivity, pH, oxidation reduction potential, and dissolved oxygen.

After approximately four and a half years of DPE system operation, PCE concentrations decreased in all of the monitoring and DPE wells, as shown in **Table 5** and **Figures 10A-10B**. Groundwater VOC concentrations also decreased significantly from historical highs observed April 1 through June 30, 2013, following a 25.6 inch precipitation event. Following shutdown of the DPE system on August 26, 2013, PCE concentrations rebounded to some degree in the DPE and monitoring wells. After restarting the DPE system on December 15, 2015, within a few months concentrations of PCE in the wells decreased. **Figures 11, 12** and **13** show the iso-concentration contour map for PCE during the December 14, 2015, February 23, 2016 and May 17, 2016 monitoring events, respectively. The groundwater analytical results are included in **Table's 6A-6B** and the groundwater analytical reports are included in **Attachment A**. Groundwater monitoring field data sheets are included in **Attachment B**.

Venting System and Soil Vapor Monitoring Results

As mentioned previously, the active VMS began operating on September 8, 2015, and was shut down on December 15, 2015, when the DPE system was restarted. to After testing simultaneous operation of the active VMS and DPEs system showed that both systems could operate effectively, the active VMS was re-started on May 17, 2016. Post-mitigation monitoring results to date are included in **Table 7** along with pre-mitigation diagnostic testing results from March 23, 2015, for comparison.

In May 2016, low pressure readings from the basement (LSG-10 and V-2) and at the digital manometer readout panel for VMS-3 indicated the fan at VMS-3 was not operating properly. The problem was diagnosed and the fan was repaired on June 23, 2016after which the pressure readings associated with VMS-3 returned to normal.

The locations and installation information for the permanent soil vapor sampling ports, LSG-7 through LSG-10, which were installed during the December 21, 2012, is summarized below. These sampling



ports were installed by coring 1-inch holes through the foundation walls near the basement ceiling. The samples collected at LSG-7 and LSG-9 are representative of sub-slab soil vapor samples because they are collected below the building slab. LSG-7, which is near the former SG-1 sampling location, is utilized to collect a sub-slab vapor sample beneath Dooley's Pub west of the basement. LSG-9, the north sampling location, is utilized to collect a sub-slab soil vapor sample beneath the slab on grade section of the Property building north of the basement. These two sample locations are representative of sub-slab samples collected within 1 foot below the bottom of the slab per MPCA requirements. Soil vapor samples, which are not considered "sub-slab" soil vapor samples because they are not located beneath a building slab, are collected at LSG-8 located on the east side of the Property building beneath the sidewalk and LSG-10 located on the west side of the Property building beneath the alley. Soil vapor samples from LSG-8 are collected approximately 6 inches below the concrete surface of the sidewalk. The soil vapor samples from LSG-10 are collected approximately 3 feet beneath the concrete surface of the alley. In addition to collecting soil vapor samples at locations LSG-7 through LSG-10, Landmark also collects grab headspace samples from storm sewer sumps SP-1 and SP-2 located in the basement of the Property building.

During the January 12, 2015 and February 24, and June 23, 2016 monitoring events, soil vapor samples were collected from LSG-7 through LSG-10 and air samples were collected from the headspace of each of the two stormwater sumps (SP-1 and SP-2) located in the basement of the Property building. These soil vapor and headspace air samples were collected with the DPE system running.

As shown in **Figure 14**, **15** and **16**, and **Table 8**, all of the detected parameters from the January 12th, February 24th, and June 23rd sampling events were below the MPCA's applicable 10X IISVs, except for PCE at LSG-8 (880 µg/m³) from the February 24th sampling event and PCE at SP-2 (360 µg/m³) from the June 23rd sampling event. Field data including PID readings are included in **Table 9**. The analytical laboratory reports from Legend Technical Services, Inc. (Legend) and Pace Analytical (Pace) are included in **Attachment A**.

The soil vapor samples were collected in an evacuated, 1 liter Summa canister equipped with a dedicated pneumatic flow controller. Prior to collecting the soil gas samples, at a minimum, two volumes of air were purged from the sampling train using a hand-operated syringe. The sampling line (1/4-inch outer diameter [O.D.] Teflon tubing) was attached to the canister inlet using a Swagelok nut and set of stainless steel ferrules. The sampling line was attached to the tubing in the soil void created (approximately 1-inch O.D.) using new small length of inert tubing. The pneumatic flow controller was pre-set by the laboratory so that the canister fills at a rate in no less than 10 minutes. The Summa canister was equipped with a pressure gauge to monitor vacuum. The sump pit samples were grab samples collected over approximately 10 minutes. The Summa canisters were submitted to Legend or Pace for analysis of VOCs using U.S. Environmental Protection Agency Method TO-15.

DPE System Operation and Maintenance

Monthly maintenance checks were completed through June 2016 after restarting the DPE system on December 14, 2015. The DPE system was shut down temporarily from January 26, through February 23, 2016, due to air stripper maintenance issues. The DPE system operation and maintenance summary is provided in **Table 10**.



Groundwater influent and effluent samples for the air stripper were collected on January 11, February 24, March 30, April 20, and May 18, 2016, to verify the groundwater discharge to the sanitary sewer was below the permit criteria. Acute emissions risk sampling was completed on January 12, February 24, March 30, April 20, May 18, and June 23, 2016 for the 6-hour sampling period. The DPE system was operated at each well for 45 minutes for a total of six hours while a composite emissions air sample was collected from a Summa canister equipped with an 8-hour flow controller.

When comparing the March 30, 2016 concentrations to the baseline emissions data from April 9, 2009, the total volatile organic compound (VOC) concentration has decreased from 14,613,880 μ g/m³ to 26,073 μ g/m³, a decrease of 99.8 percent (See **Table 11** and **Figures 17A** and **17B**). Subsequently, VOC concentrations during the June 23, 2016 sampling event were only 2,699 μ g/m³, which is a decrease of 99.98 percent from the baseline emissions data from April 9, 2009. PCE concentrations decreased from 11,600,000 μ g/m³ to 19,000 μ g/m³ during the March 30, 2016 sampling event which is a decrease of 99.8 percent from the baseline concentration (See **Table 11** and **Figures 17A** and **17B**). PCE concentrations decreased from 11,600,000 μ g/m³ to 230 μ g/m³ during the June 23, 2016 sampling event, which is a decrease of 99.99 percent.

The DPE system removed approximately 11.40 pounds of total VOCs, including approximately 6.57 pounds of PCE, from December 15, 2015 through May 17, 2016 (see **Figure 18** and **Table 11**). Through May 17, 2016, the DPE system has removed a total of 3,708.92 pounds of total VOCs and 2,794.92 pounds of PCE. Emissions analytical data is provided in **Table 12** and system operational data tables and field data sheets are provided in **Attachment C**. The emissions analytical reports are included in **Attachment A**.

The 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 events. The site specific emissions rates for PCE from January 12, February 24, March 30, April 20 May 18 and June 23, 2016, were below the MPCA screening emissions rate (SER) for chronic risk of 16,300 micrograms per second (μ g/s), and for acute risk of 5,980,000 μ g/s. The PR emissions rates are provided in **Table 13** and the PR spreadsheets are provided in **Attachment D**.

The cumulative total VOC mass removed from the DPE system groundwater discharge during air stripper operation through May 18, 2016, was 0.65 pounds. The effluent groundwater discharge concentrations were below the City's Water Reclamation Plant discharge criteria of 2,130 μ g/L. Mass removal data from the groundwater treatment system is provided in **Table 14** and the groundwater discharge analytical data is included in **Table 15**. The groundwater discharge analytical reports are provided in **Attachment A**.

Conclusions

After analyzing the soil vapor, groundwater, VMS, and DPE system data from this reporting period, the following conclusions can be made:



- The DPE and monitoring well groundwater hydrographs through February 23, 2016, show a one
 to two foot fluctuation in groundwater elevation based on whether the DPE system is operating or
 not.
- After restarting the DPE system on December 15, 2015, concentrations of PCE at the monitoring and DPE wells have decreased significantly in just a few months.
- All of the detected parameters from the January 12th, February 24th, and June 23rd soil vapor sampling events were below the MPCA's applicable 10X IISVs, except for PCE at LSG-8 (880 μg/m³) from the February 24th sampling event. The February 24, 2016 sampling event occurred, after the VMS fans had been shut down for a period of over two months. After restarting the VMS fans on May 17, 2016, the soil vapor concentrations for PCE were either not detected, or were detected below the applicable 10X IISV, at all soil vapor sampling locations.
- The DPE system removed approximately 11.40 pounds of total VOCs, including approximately 6.57 pounds of PCE, from December 15, 2015 through May 17, 2016. Through May 17, 2016, the DPE system has removed a total of 3,708.92 pounds of total VOCs and 2,794.92 pounds of PCE.

Recommendations

Based on the rebound of PCE in the soil vapor above the 10X IISV at LSG-8 (880 μ g/m³), during the February 24, 2016, soil vapor sampling event, Landmark recommends continuous operation of the active VMS.

Landmark recommends operating the DPE system until the Minnesota Department of Health approves a groundwater injection variance to conduct an enhanced bioremediation and bioaugmentation groundwater remediation response action. Once the variance is approved, Landmark requests approval from the MPCA to implement the enhanced bioremediation and bioaugmentation groundwater remediation event. One week prior to implementing the enhanced bioremediation and bioaugmentation groundwater remediation event, Landmark recommends shutting down the DPE system to allow groundwater levels to return to steady state conditions.

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

Sincerely,

Jason D. Skramstad, P.E.

CC: Terry Spaeth, City of Rochester



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Figures

Figure 1: Property Location Map

Figure 2: DPE Well Hydrographs

Figure 3: Monitoring Well and Sump Hydrographs

Figure 4: Groundwater Flow Interpretation-December 14, 2015

Figure 5: 3D Groundwater Flow Interpretation- December 14, 2015

Figure 6: Groundwater Flow Interpretation-February 23, 2016

Figure 7: 3D Groundwater Flow Interpretation- February 23, 2016

Figure 8: Groundwater Flow Interpretation-May 17, 2016

Figure 9: 3D Groundwater Flow Interpretation- May 17, 2016

Figure 10A: PCE Concentrations in Groundwater-December 2008 to Present

Figure 10B: PCE Concentrations in Groundwater- May 2010 to Present

Figure 11: Shallow PCE Groundwater Concentration Interpretation- December 14, 2015

Figure 12: Shallow PCE Groundwater Concentration Interpretation-February 23, 2016

Figure 13: Shallow PCE Groundwater Concentration Interpretation- May 17, 2016

Figure 14: Soil Vapor Sampling Locations and PCE Results-January 12, 2016

Figure 15: Soil Vapor Sampling Locations and PCE Results-February 24, 2016

Figure 16: Soil Vapor Sampling Locations and PCE Results-June 23, 2016

Figure 17A: DPE Emissions Concentrations-June 2009 to Present

Figure 17B: DPE Emissions Concentrations-July 2010 to Present

Figure 18: Cumulative Mass Removed

Tables

Table 1: Groundwater Elevations

Table 2: Well Construction Summary

Table 3: Natural Attenuation Analytical Results

Table 4: Groundwater Field Data

Table 5: PCE Groundwater Concentration Data

Table 6A: DPE Well Groundwater Analytical Results

Table 6B: Monitoring Well Groundwater Analytical Results

Table 7: Vapor Mitigation System Monitoring Results

Table 8: Soil Vapor Sampling Results

Table 9: Soil Vapor and Venting System Monitoring Results

Table 10: System Operation and Maintenance Summary

Table 11: Mass Removal from DPE Exhaust

Table 12: Air Emissions Analytical Results

Table 13: Emissions Rate Summary

Table 14: Mass Removal from Groundwater Treatment System

Table 15: Groundwater Discharge Analytical Results

Attachments

Attachment A: Laboratory Analytical Reports

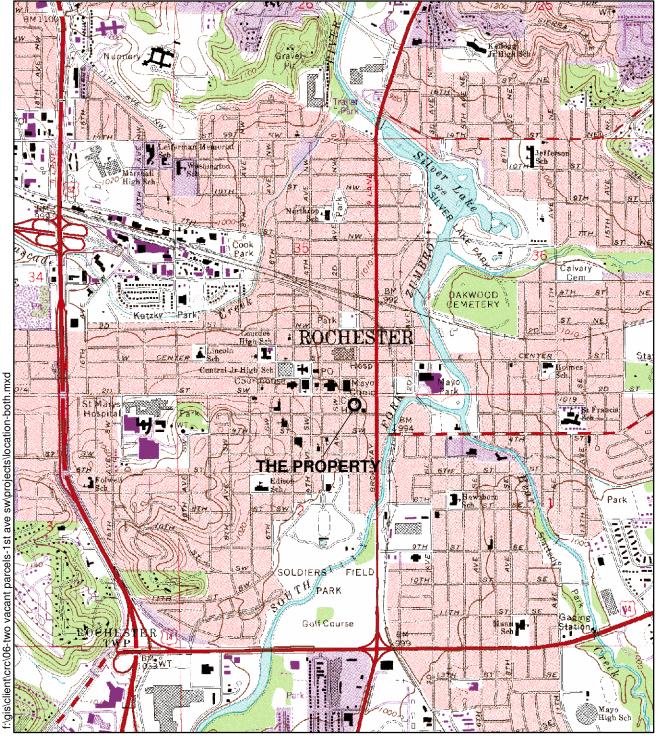


Attachment B: Groundwater Monitoring Field Data Sheets

Attachment C: System Operational Data Tables

Attachment D: PR Spreadsheets

Figures



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



FIGURE 2

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

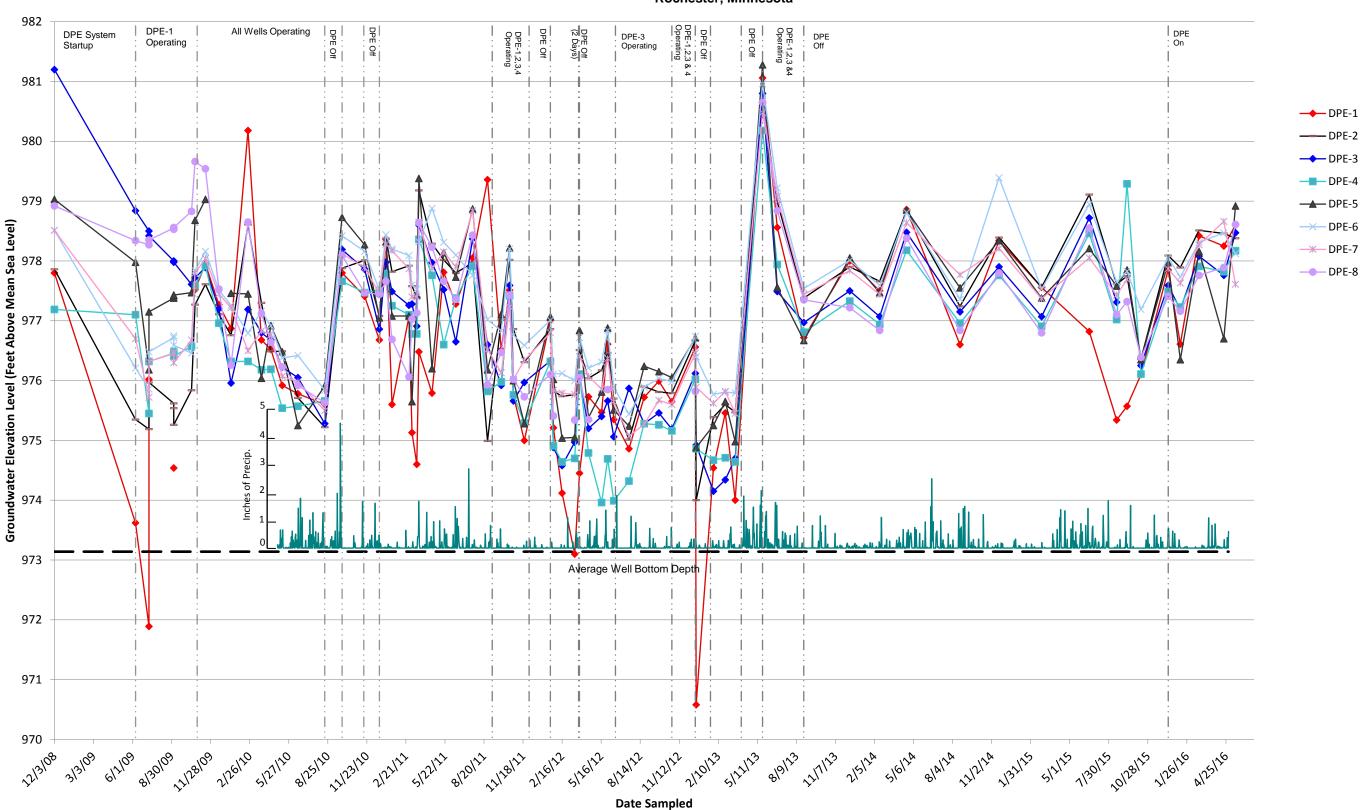
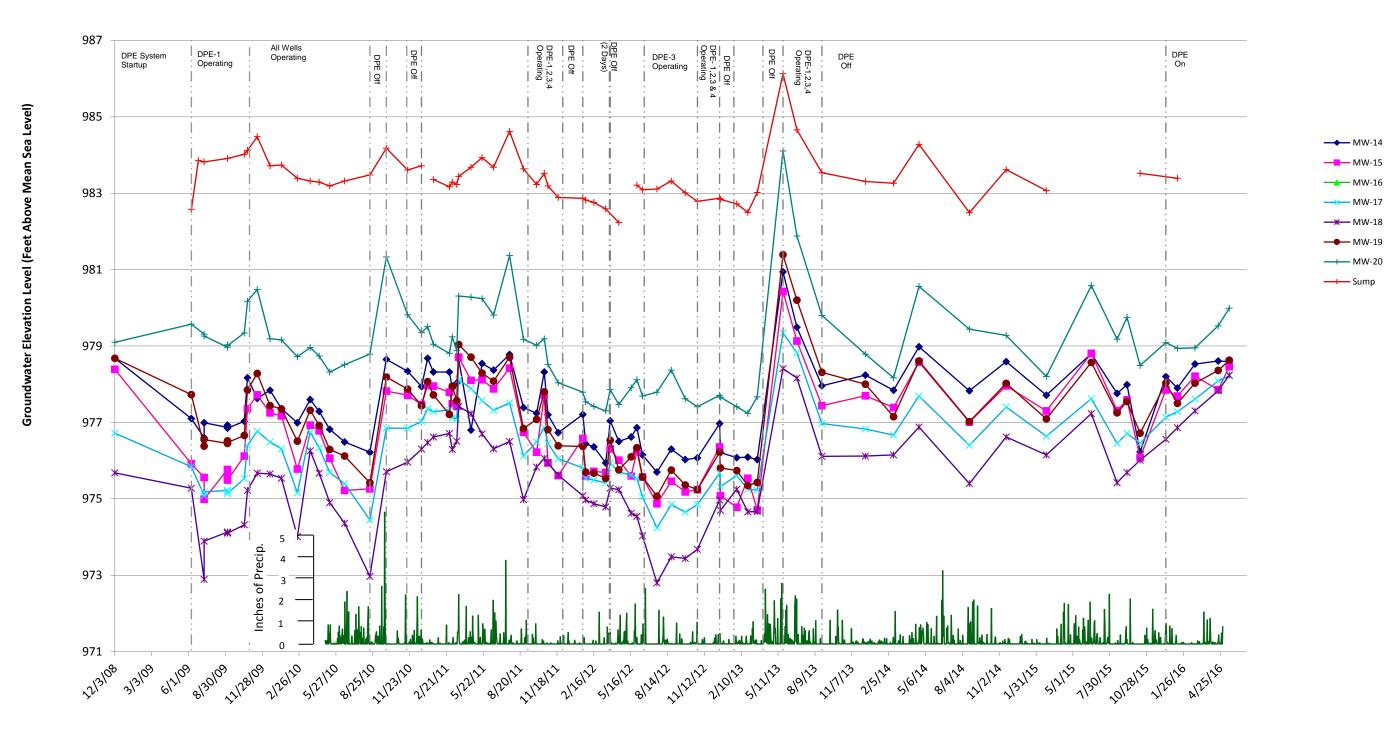


FIGURE 3

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



Date Sampled

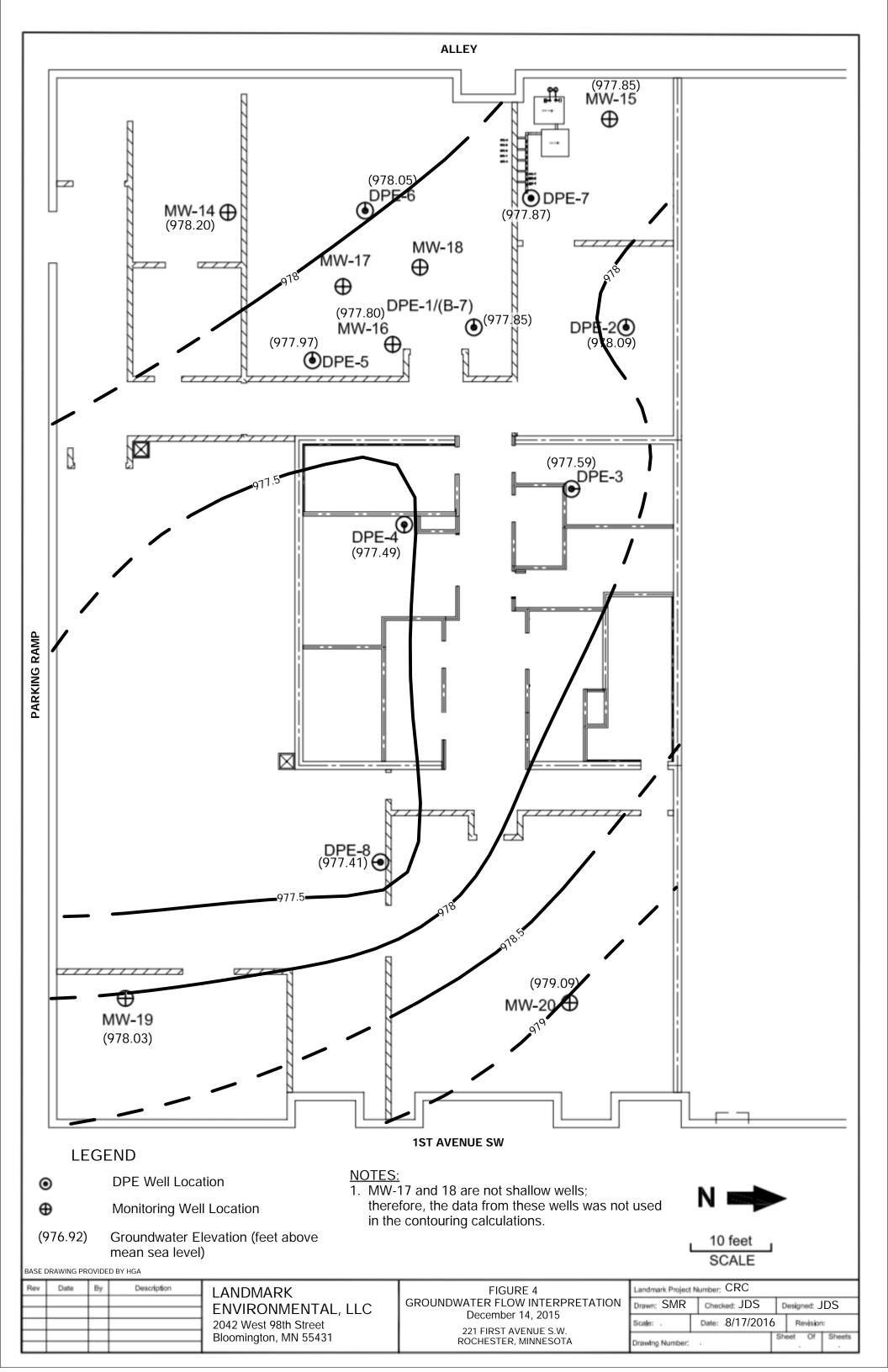
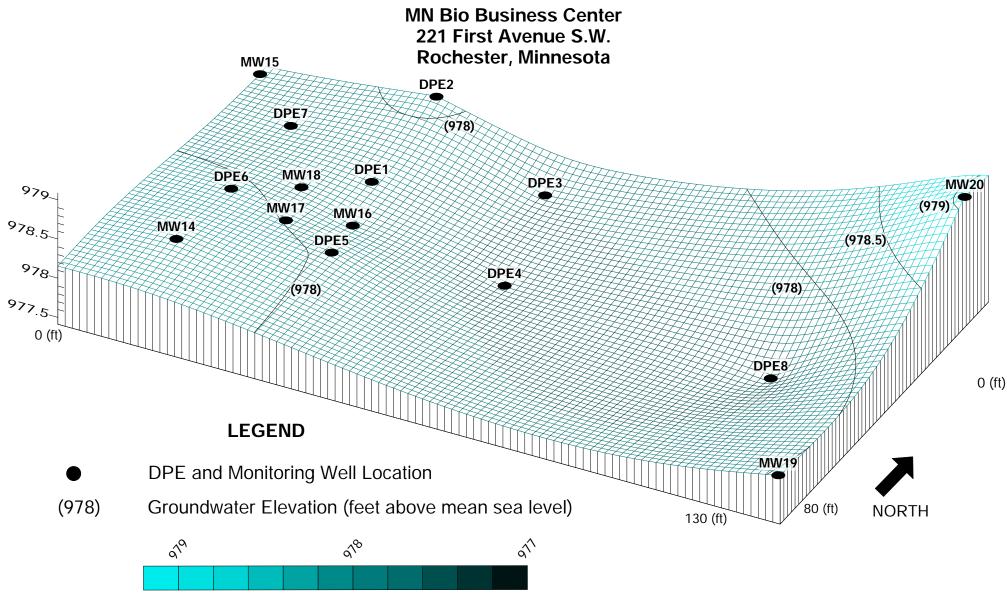


FIGURE 5 3D GROUNDWATER FLOW INTERPRETATION December 14, 2015



NOTES:

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

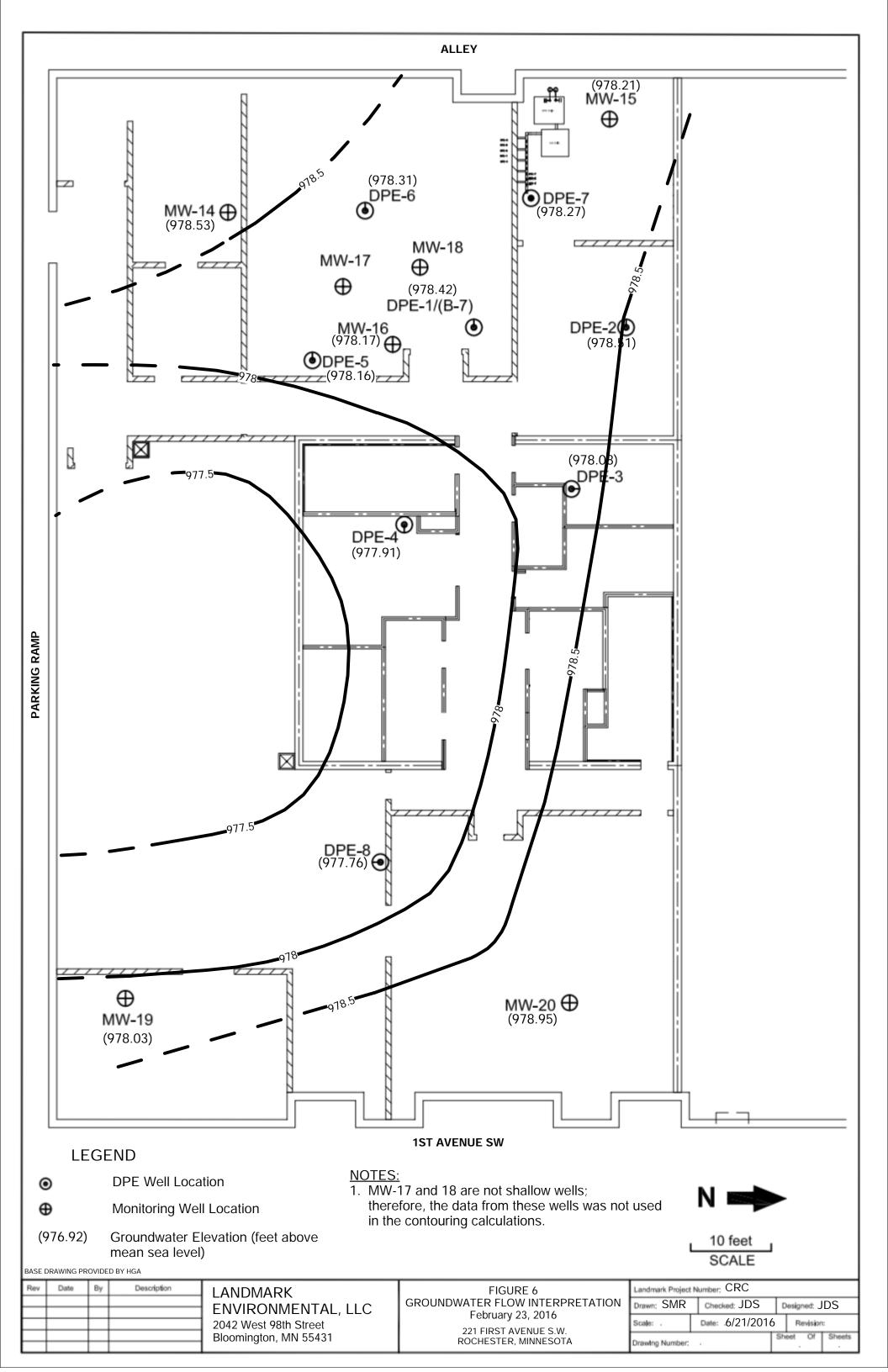
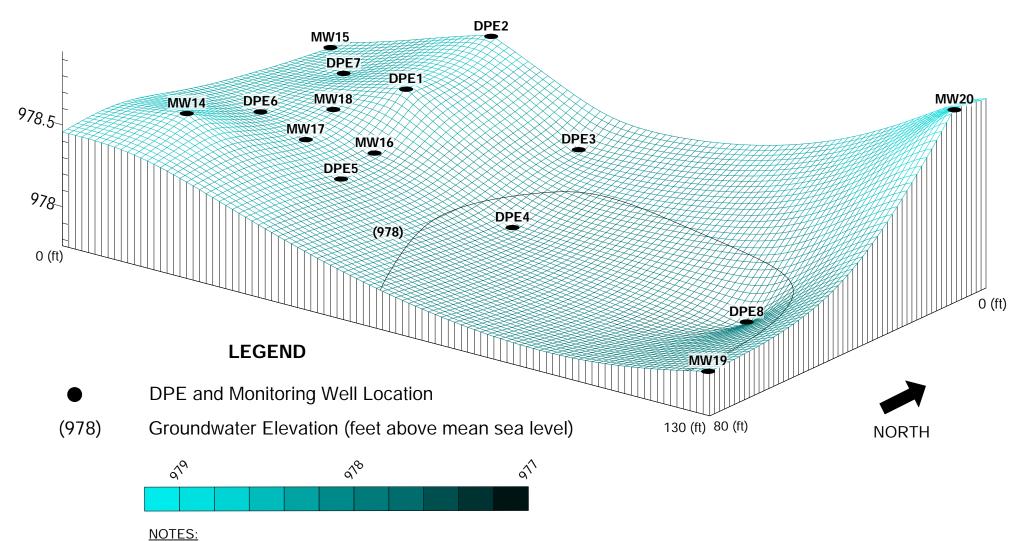


FIGURE 7 3D GROUNDWATER FLOW INTERPRETATION February 23, 2016

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



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

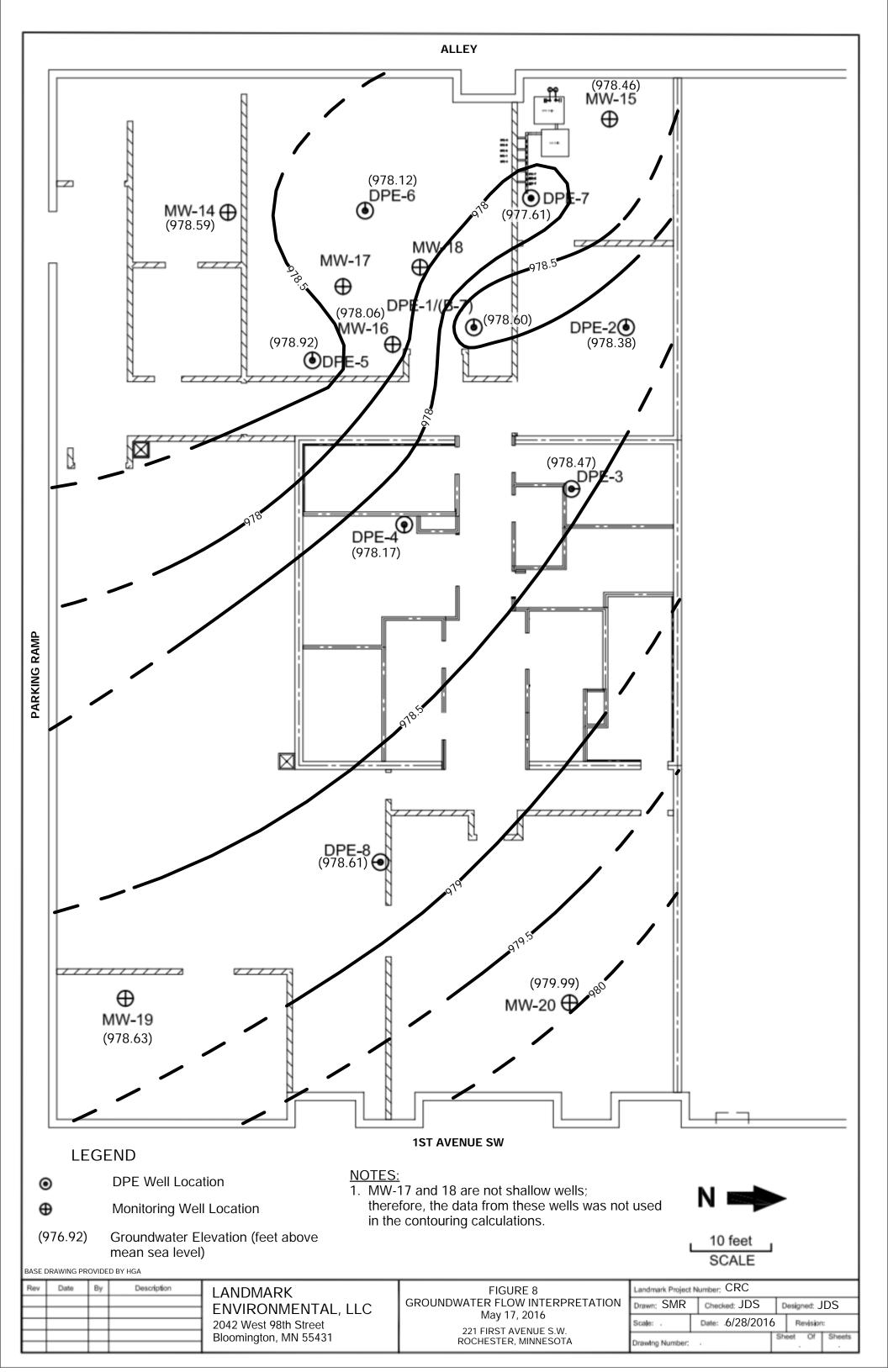
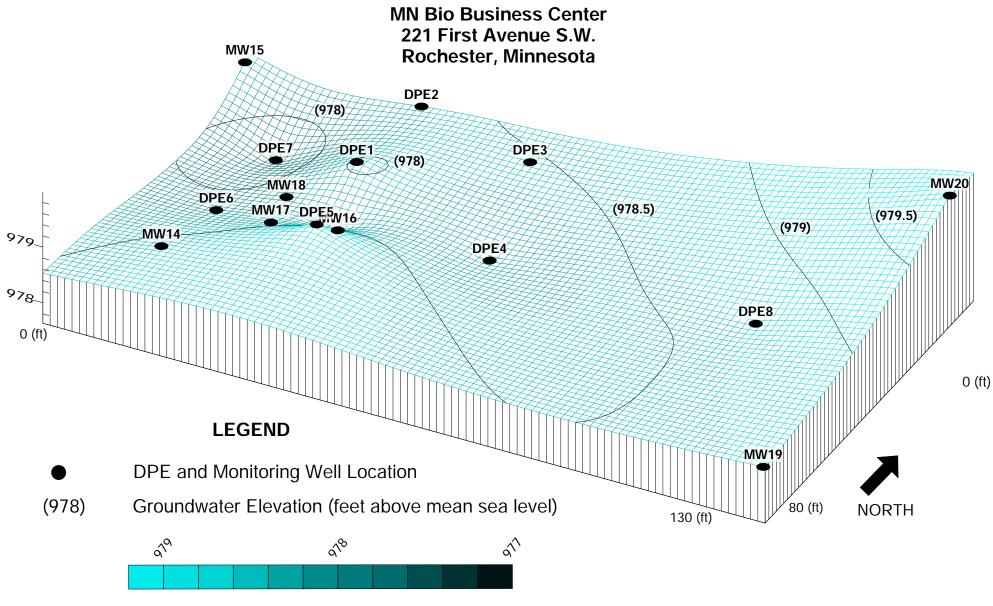


FIGURE 9 3D GROUNDWATER FLOW INTERPRETATION May 17, 2016

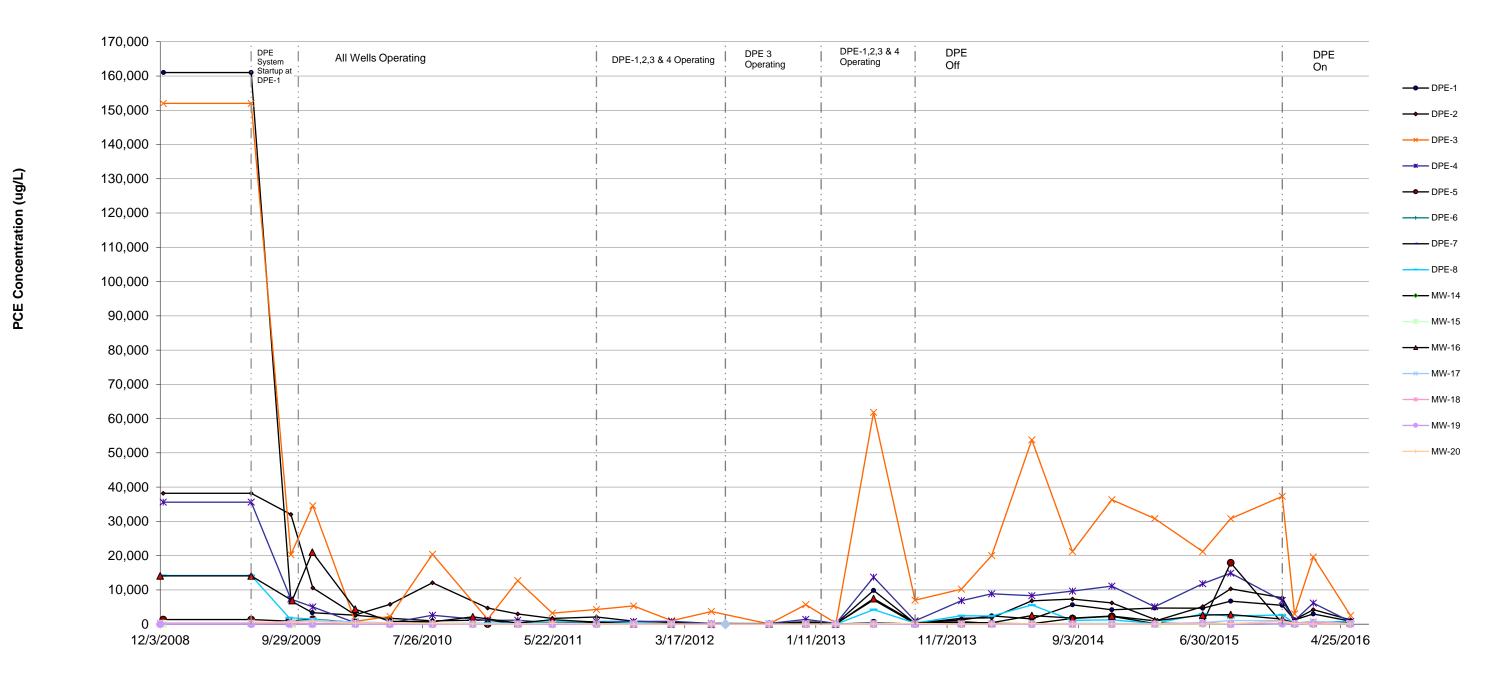


NOTES:

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

PCE CONCENTRATIONS IN GROUNDWATER

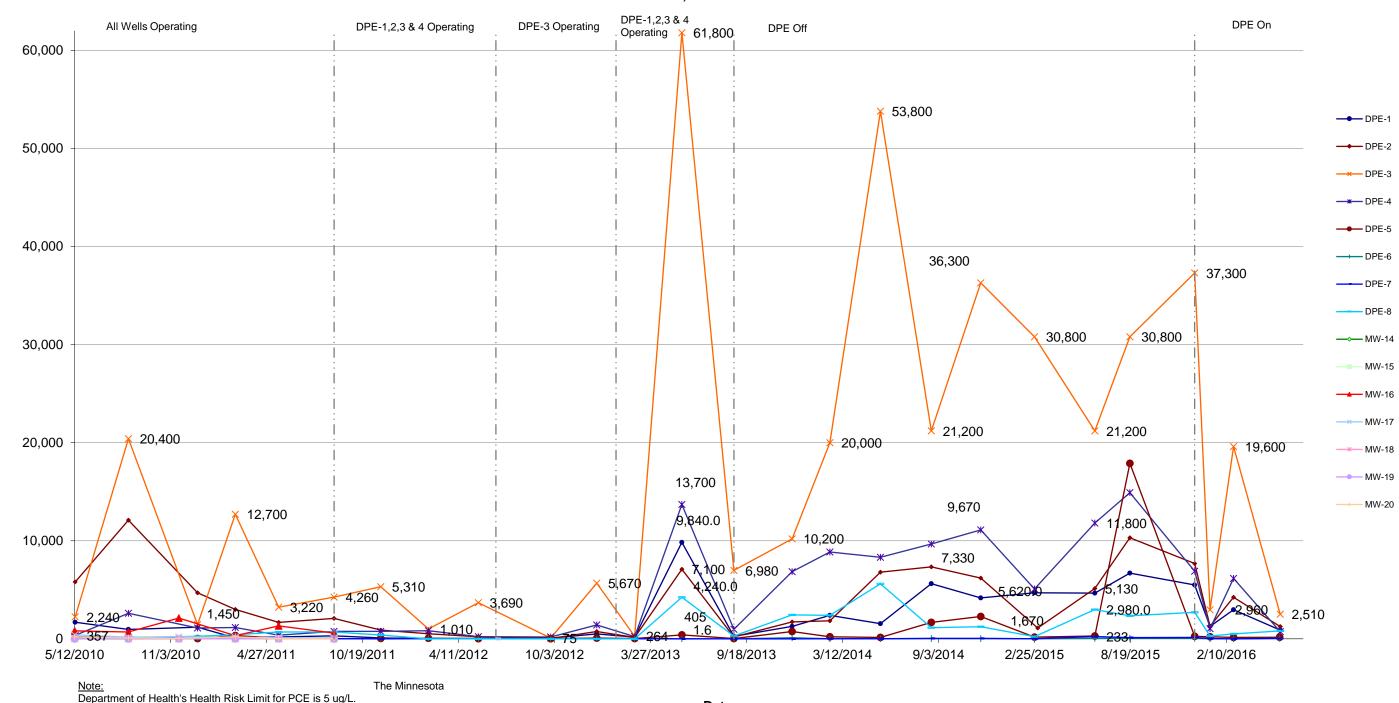
December 2008 to Present MN Bio Business Center 221 1st Avenue SW Rochester, Minnesota



Date

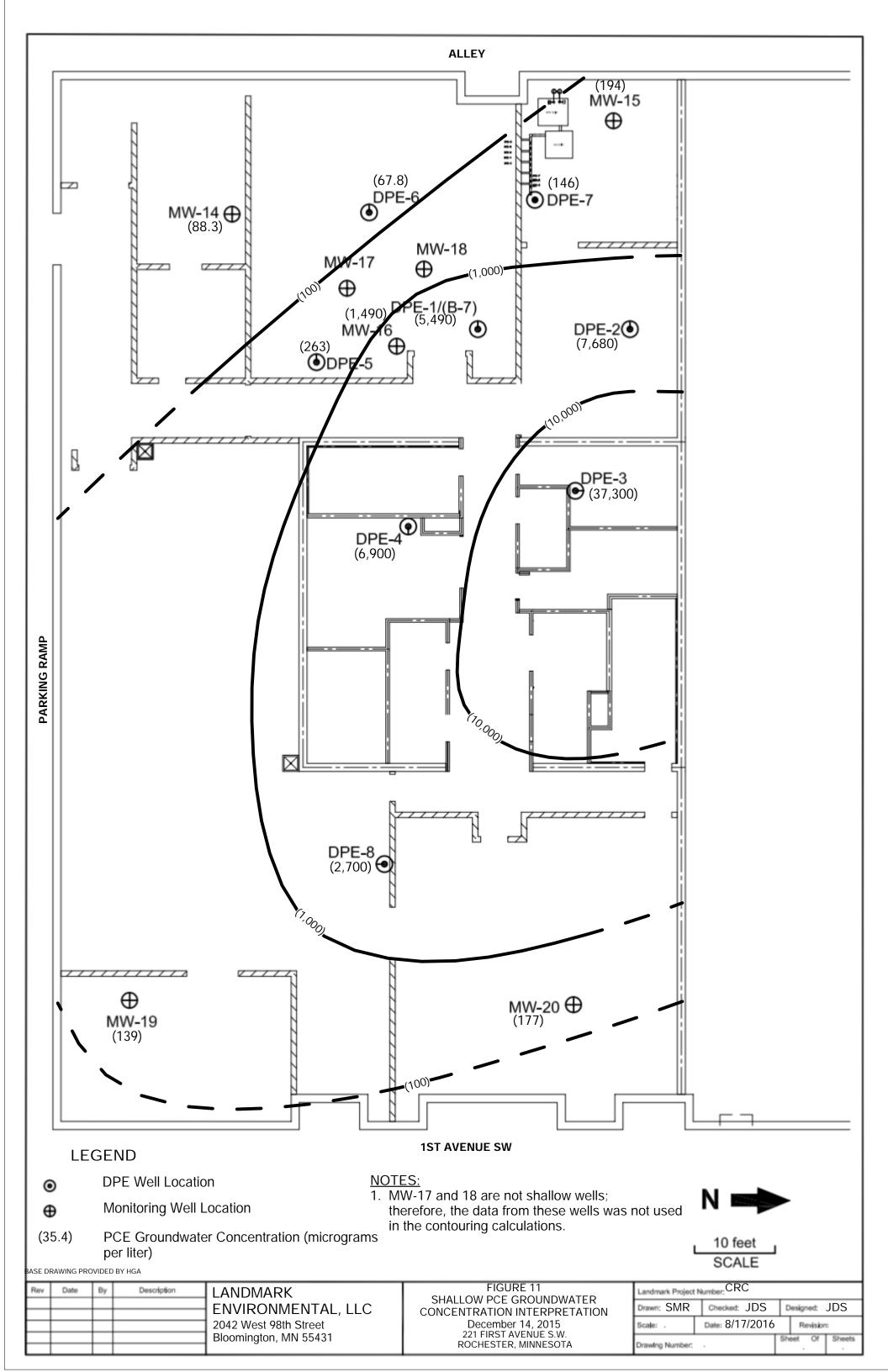
PCE CONCENTRATIONS IN GROUNDWATER

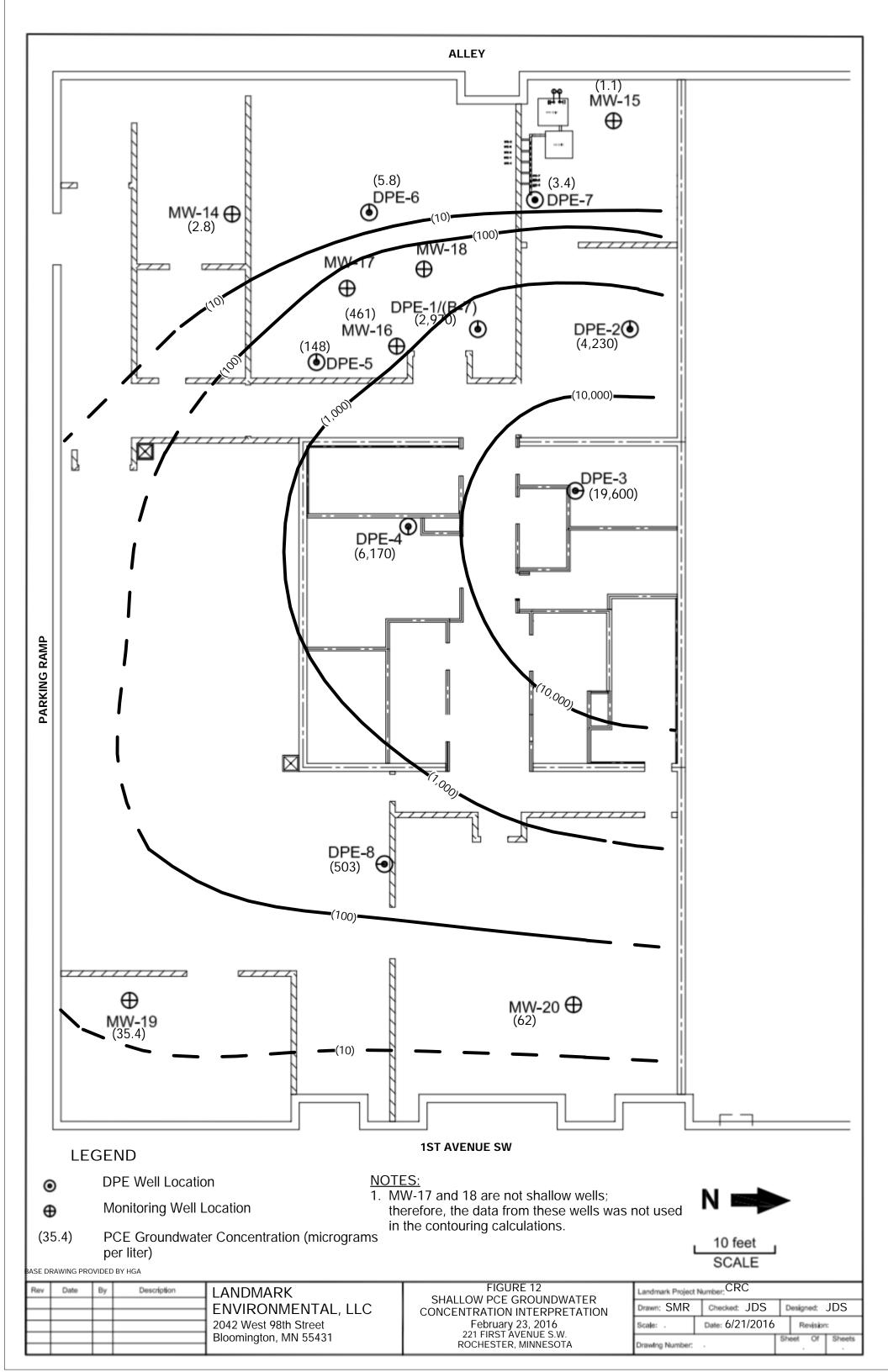
May 2010 to Present
MN Bio Business Center
221 1st Avenue SW
Rochester, Minnesota

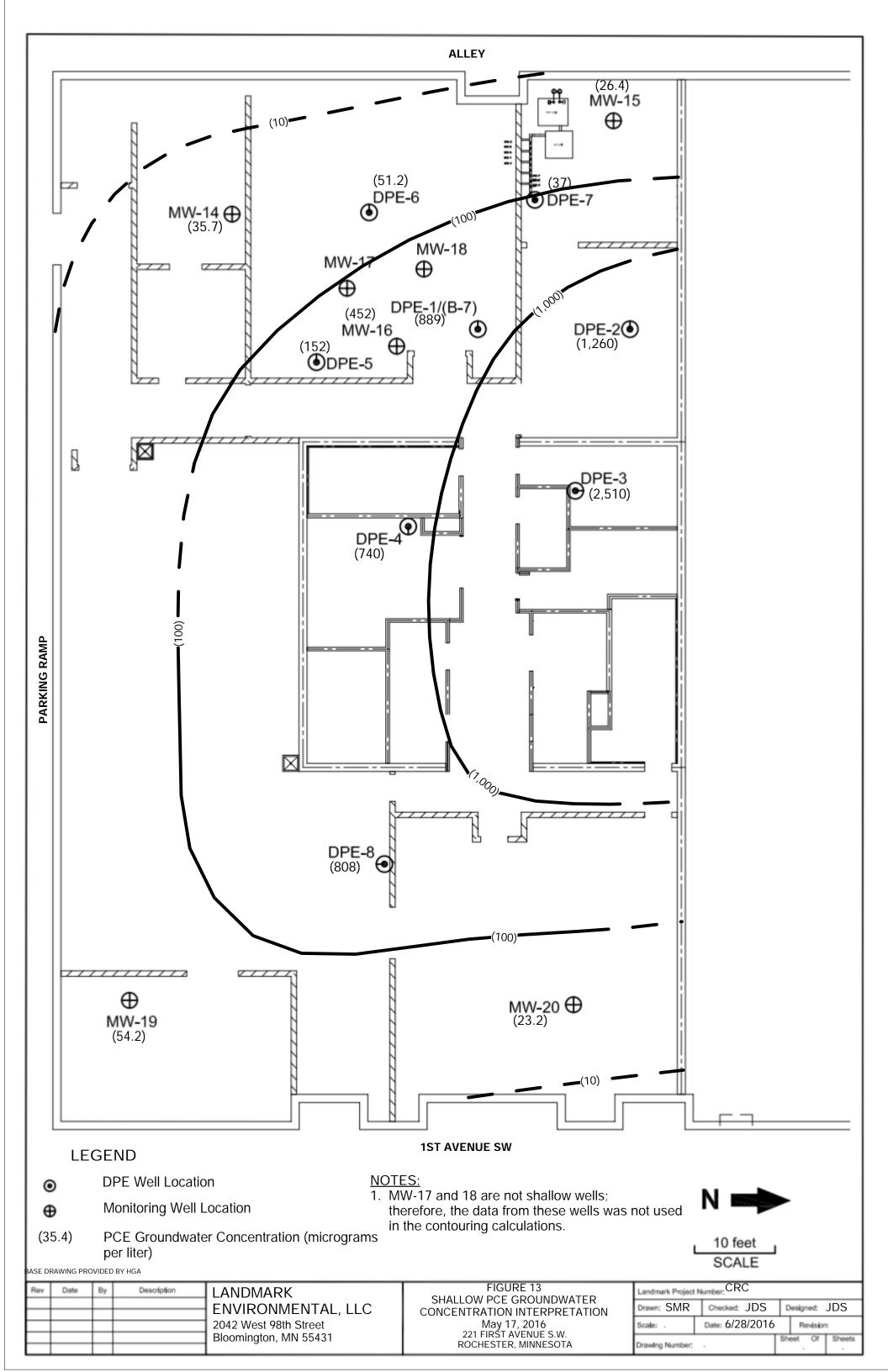


Date

PCE Concentration (ug/L)







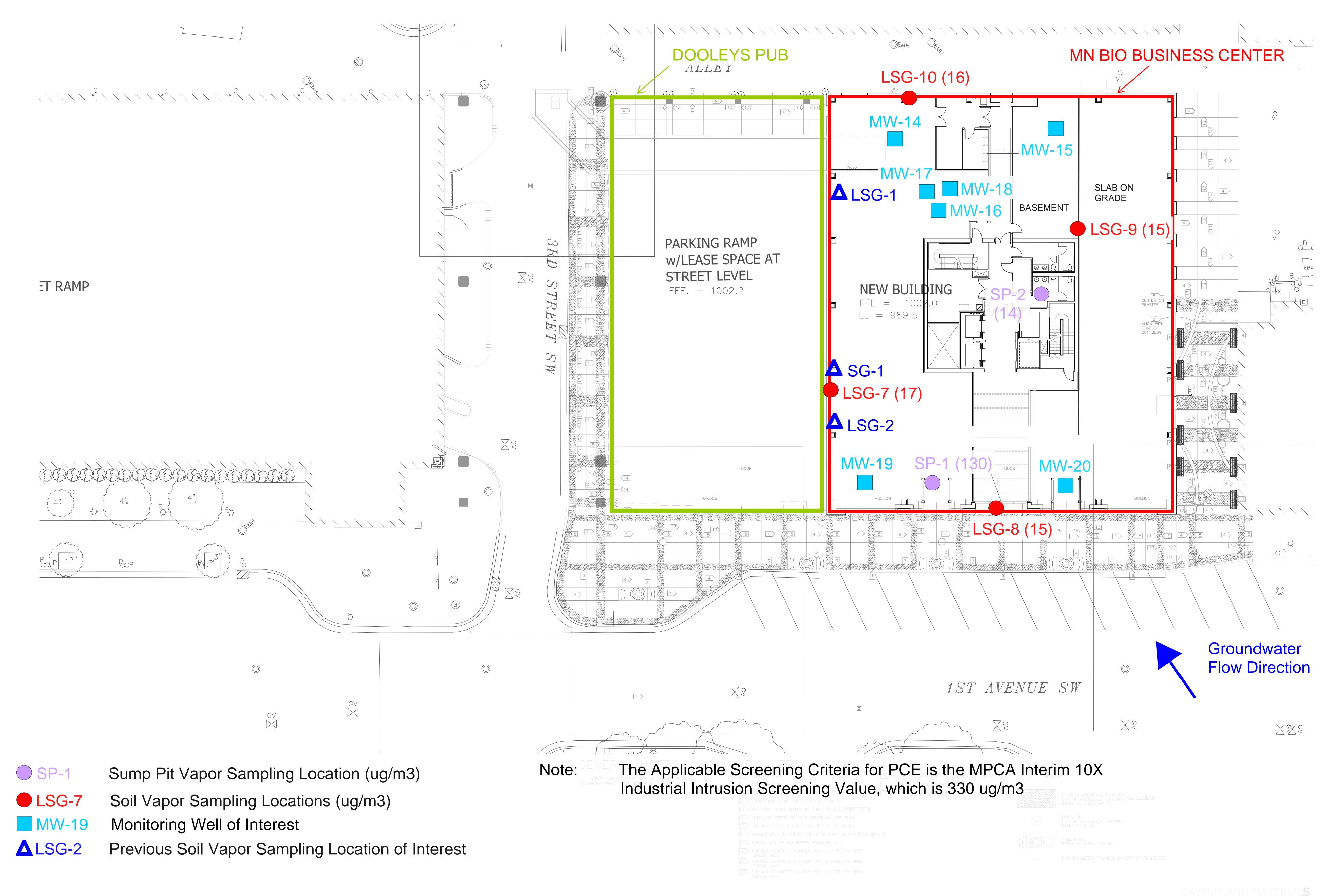


FIGURE 14 - Jan. 12, 2016 SOIL VAPOR SAMPLING LOCATIONS AND PCE RESULTS

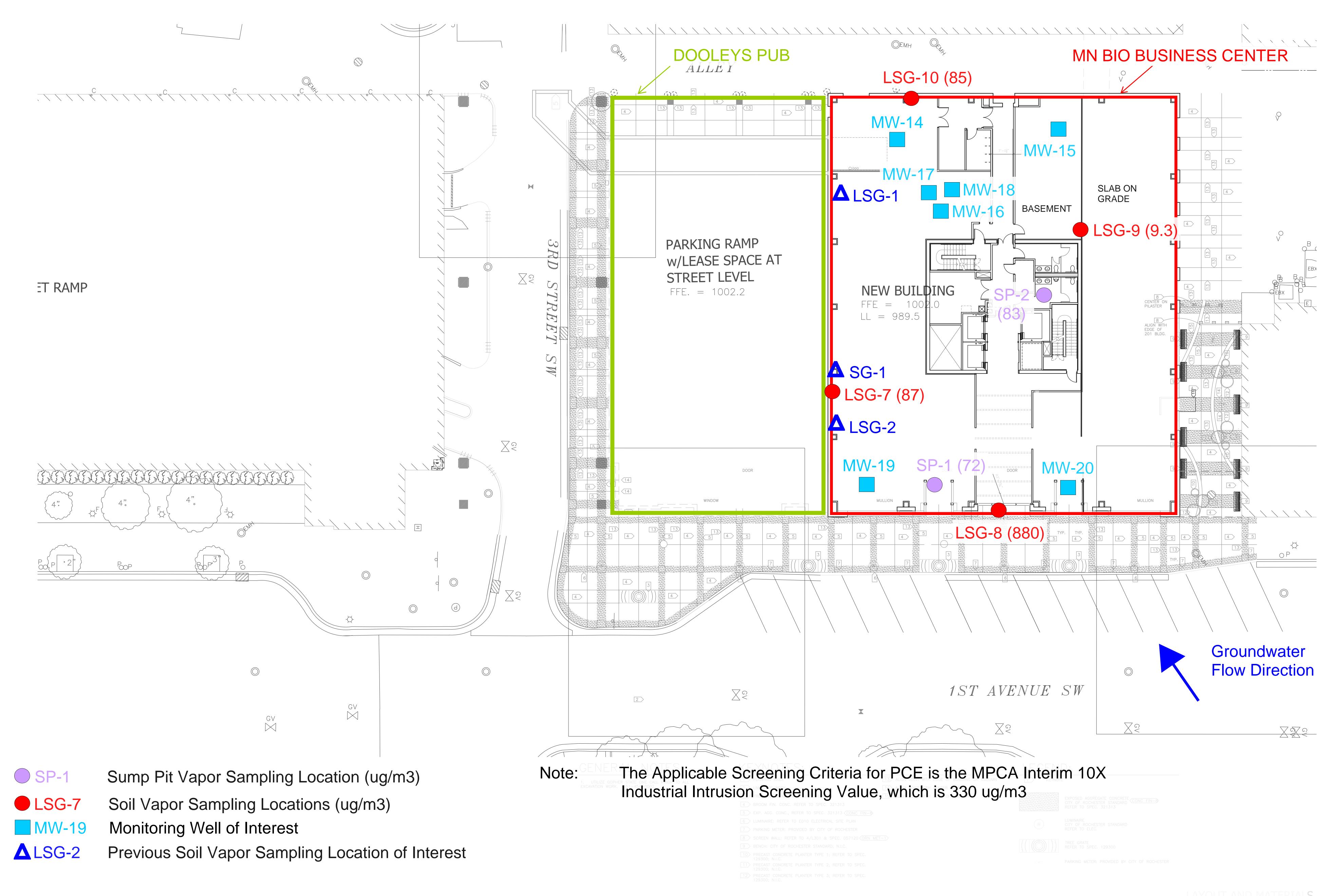


FIGURE 15 - Feb. 24, 2016 SOIL VAPOR SAMPLING LOCATIONS AND PCE RESULTS

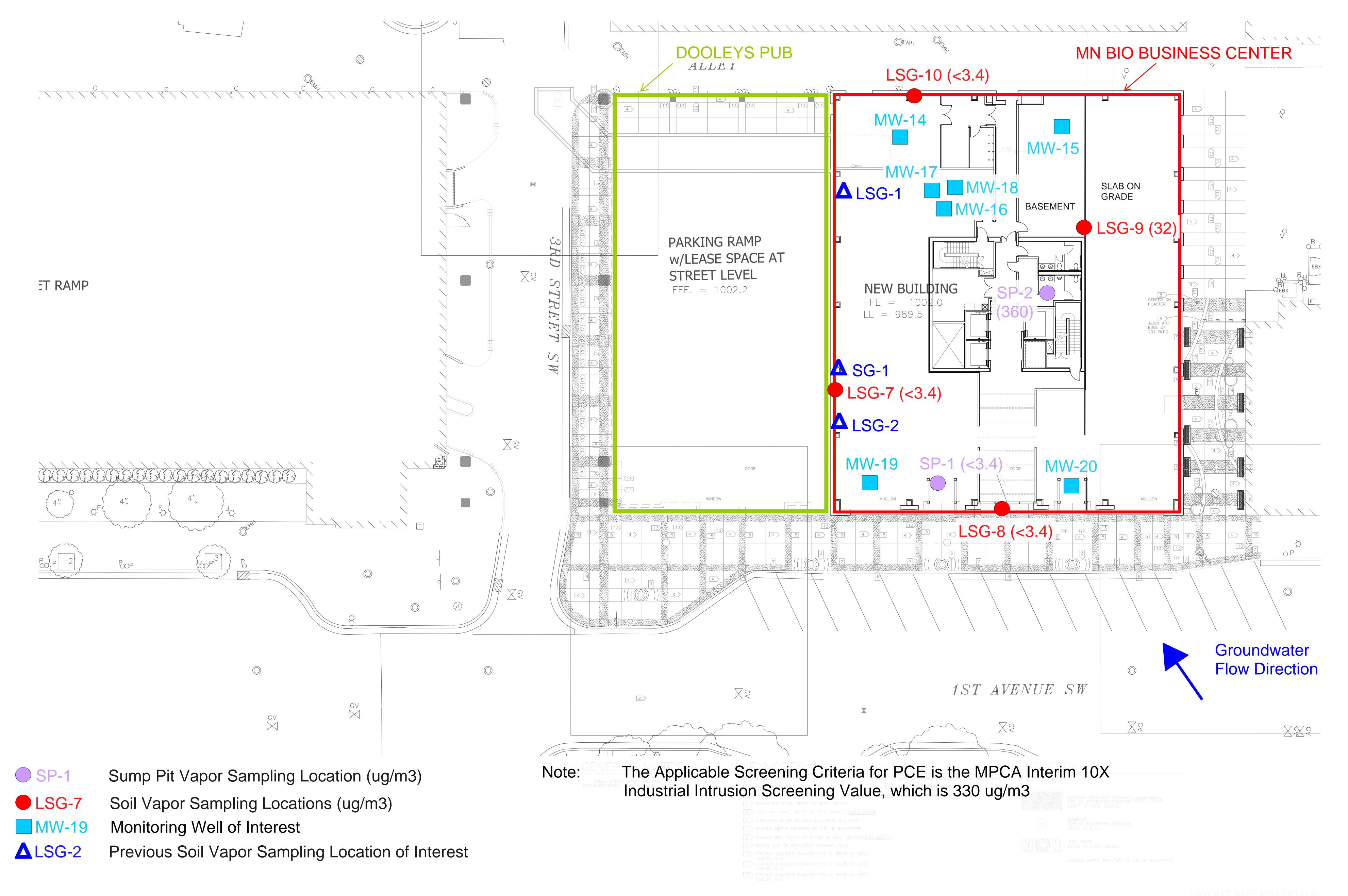


FIGURE 16 - June 23, 2016 SOIL VAPOR SAMPLING LOCATIONS AND PCE RESULTS

FIGURE 17A

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

Rochester, Minnesota

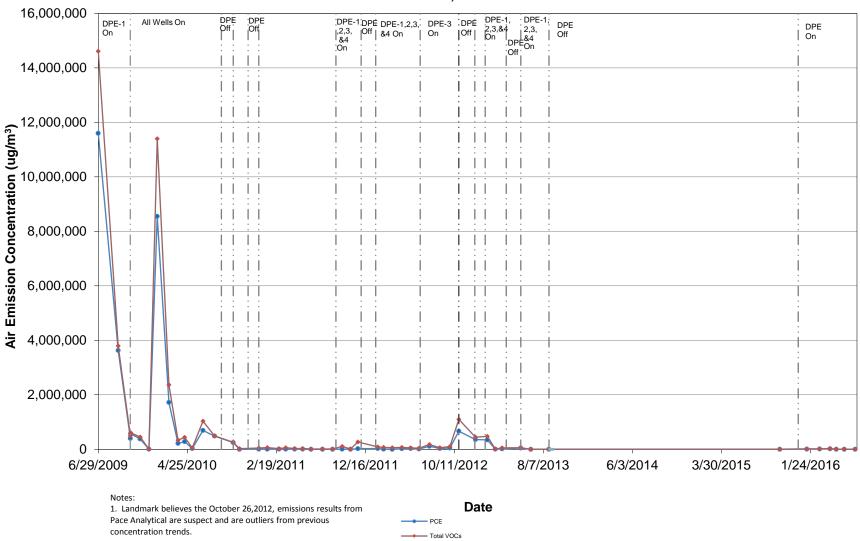


FIGURE 17B

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

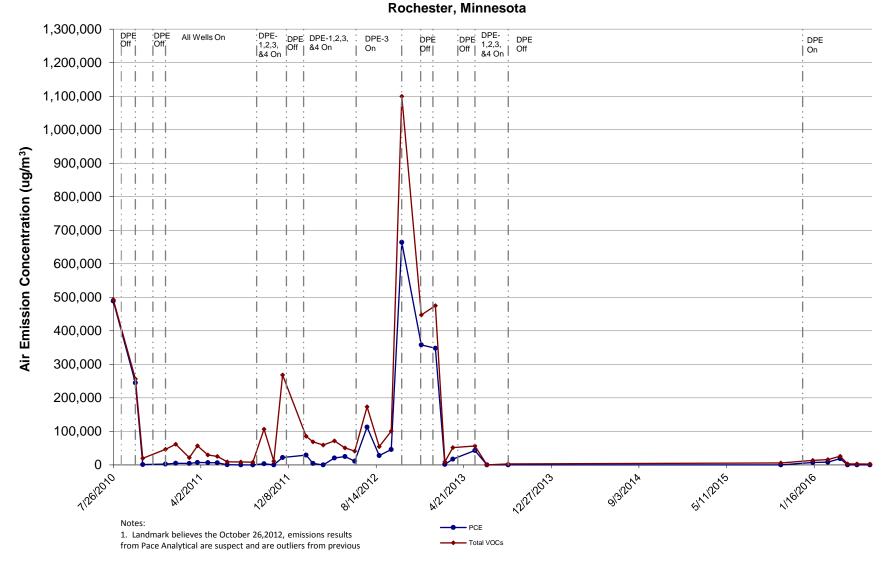
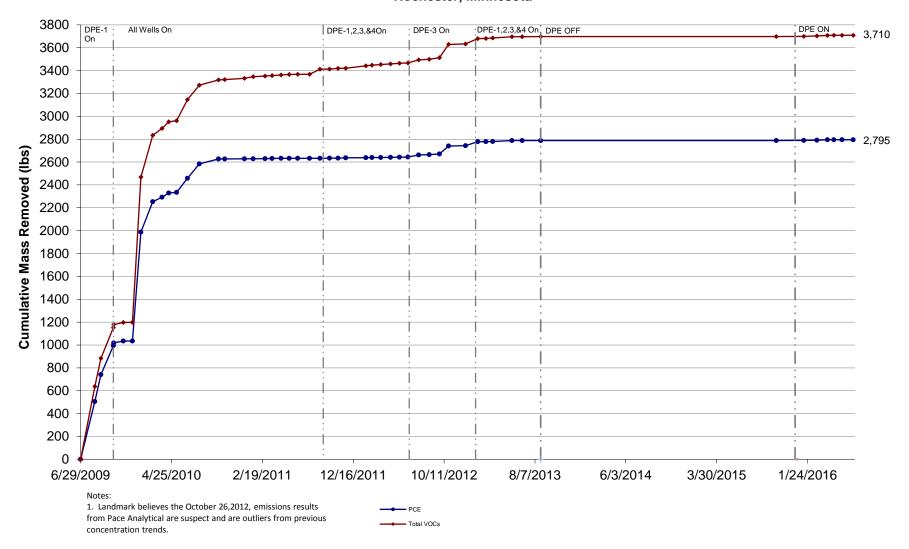


FIGURE 18

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



Tables

GROUNDWATER ELEVATIONS MN Bio Business Center

221 First Avenue SW Rochester, Minnesota

	1	ТС	Donath to		
Well	Date	Top of Casing	Depth to Groundwater	Groundwater	
ID	Measured	Elevation ^{1,2}	(feet)	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 MW-14	9/4/2009 10/15/2009	989.50 989.50	12.65 12.47	976.85 977.03	DPE system on after replacing inlet filter DPE system on DPE-1
MW-14	10/13/2009	989.50	11.33	977.03	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 MW-14	4/16/2010 5/12/2010	989.50 989.50	12.21 12.68	977.29 976.82	DPE System on all wells DPE System on all wells
MW-14	6/17/2010	989.50	13.01	976.82	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 MW-14	2/28/2011 3/7/2011	989.50 989.50	11.18 11.60	978.32 977.90	DPE System on all wells 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 DPE System on all wells
MW-14 MW-14	8/28/2011 9/29/2011	989.50 989.50	12.11 12.26	977.39 977.24	DPE-1,2,3,4
MW-14	10/18/2011	989.50	11.18	978.32	DPE-1,2,3,4 DPE-1,2,3,4
MW-14	10/27/2011	989.50	12.30	977.20	DPE-1,2,3,4
MW-14	11/21/2011	989.50	12.77	976.73	DPE-1,2,3,4
MW-14	1/20/2012	989.50	12.29	977.21	DPE-1,2,3,4
MW-14	1/27/2012	989.50	13.06	976.44	DPE-1,2,3,4
MW-14 MW-14	2/16/2012 3/16/2012	989.50 989.50	13.14 13.56	976.36 975.94	DPE-1,2,3,4 DPE-1,2,3,4
MW-14	3/27/2012	989.50	12.46	977.04	DPE-1,2,3,4
MW-14	4/17/2012	989.50	13.00	976.50	DPE-1,2,3,4
MW-14	5/17/2012	989.50	12.88	976.62	DPE-1,2,3,4
MW-14	5/31/2012	989.50	12.64	976.86	DPE-1,2,3,4
MW-14	6/14/2012	989.50	13.35	976.15	DPE-1,2,3,4
MW-14	7/19/2012	989.50	13.80	975.70	DPE-3
MW-14 MW-14	8/23/2012 9/26/2012	989.50 989.50	13.20 13.47	976.30 976.03	DPE-3 DPE-3
MW-14	10/26/2012	989.50	13.43	976.03	DPE-3
MW-14	12/19/2012	989.50	12.53	976.97	DPE-3; Before restarting the system
MW-14	12/21/2012	989.50	13.29	976.21	DPE-3; After restarting the system
MW-14	1/30/2013	989.50	13.42	976.08	DPE-1,2,3,4
MW-14	2/26/2013	989.50	13.41	976.09	DPE-1,2,3,4
MW-14 MW-14	3/21/2013 5/23/2013	989.50 989.50	13.47 8.56	976.03 980.94	DPE-1,2,3,4 DPE-1,2,3,4
MW-14	6/26/2013	989.50	10.01	979.49	DPE-1,2,3,4 DPE-1,2,3,4
MW-14	8/26/2013	989.50	11.54	977.96	DPE-1,2,3,4
MW-14	12/10/2013	989.50	11.26	978.24	System Off
MW-14	2/17/2014	989.50	11.66	977.84	System Off
MW-14	4/20/2014	989.50	10.52	978.98	System Off
MW-14	8/21/2014	989.50	11.67	977.83	System Off
MW-14 MW-14	11/19/2014 2/25/2015	989.50 989.50	10.91 11.79	978.59 977.71	System Off System Off
MW-14	6/15/2015	989.50	10.70	977.71	System Off
MW-14	8/17/2015	989.50	11.74	977.76	System Off
MW-14	9/10/2015	989.50	11.51	977.99	System Off
MW-14	10/12/2015	989.50	13.27	976.23	System Off
MW-14	12/14/2015	989.50	11.30	978.20	DPE System on all wells
MW-14	1/11/2016	989.50	11.60	977.90	DPE System on all wells DPE System on all wells
MW-14 MW-14	2/23/2016 4/20/2016	989.50 989.50	10.97 10.89	978.53 978.61	DPE System on all wells DPE System on all wells
MW-14	5/17/2016	989.50	10.89	978.59	DPE System on all wells
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GROUNDWATER ELEVATIONS MN Bio Business Center

221 First Avenue SW Rochester, Minnesota

XX 11	ъ.	Top of	Depth to		
Well	Date	Casing Elevation ^{1,2}	Groundwater	Groundwater Elevation ³	
ID	Measured		(feet)		System Status
MW-15	12/3/2008	991.50	13.11	978.39	pre-system installation
MW-15	6/8/2009 7/9/2009	991.50 991.50	15.58 15.94	975.92 975.56	pre-system startup DPE system on DPE-1
MW-15 MW-15	7/9/2009	991.50	16.51	973.36	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	991.50 991.50	14.57 14.72	976.93 976.78	DPE System on all wells
MW-15 MW-15	4/16/2010 5/12/2010	991.50	15.44	976.78	DPE System on all wells DPE System on all wells
MW-15	6/17/2010	991.50	16.28	976.06	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	991.50 991.50	13.38	978.12 977.88	DPE System on all wells DPE System on all wells
MW-15 MW-15	6/16/2011 7/25/2011	991.50	13.62 13.08	977.88	DPE System on all wells
MW-15	8/28/2011	991.50	14.76	976.42	DPE System on all wells
MW-15	9/29/2011	991.50	15.28	976.22	DPE-1,2,3,4
MW-15	10/18/2011	991.50	13.79	977.71	DPE-1,2,3,4
MW-15	10/27/2011	991.50	15.56	975.94	DPE-1,2,3,4
MW-15	11/21/2011	991.50	15.89	975.61	DPE-1,2,3,4
MW-15	1/20/2012	991.50	14.92	976.58	DPE-1,2,3,4
MW-15	1/27/2012	991.50	15.91	975.59	DPE-1,2,3,4
MW-15	2/16/2012	991.50	15.78	975.72	DPE-1,2,3,4
MW-15	3/16/2012	991.50	15.81	975.69	DPE-1,2,3,4
MW-15	3/27/2012	991.50	15.19	976.31	DPE-1,2,3,4
MW-15	4/17/2012	991.50	15.49	976.01	DPE-1,2,3,4
MW-15	5/17/2012 5/31/2012	991.50 991.50	15.90	975.60	DPE-1,2,3,4
MW-15 MW-15	6/14/2012	991.50	15.26 15.93	976.24 975.57	DPE-1,2,3,4 DPE-1,2,3,4
MW-15	7/19/2012	991.50	16.63	974.87	DPE-3
MW-15	8/23/2012	991.50	16.04	975.46	DPE-3
MW-15	9/26/2012	991.50	16.32	975.18	DPE-3
MW-15	10/26/2012	991.50	16.26	975.24	DPE-3
MW-15	12/19/2012	991.50	15.14	976.36	DPE-3; Before restarting the system
MW-15	12/21/2012	991.50	16.42	975.08	DPE-3; After restarting the system
MW-15	1/30/2013	991.50	16.72	974.78	DPE-1,2,3,4
MW-15	2/26/2013	991.50	15.96	975.54	DPE-1,2,3,4
MW-15	3/21/2013	991.50	16.79	974.71	DPE-1,2,3,4
MW-15	5/23/2013	991.50	11.07	980.43	DPE-1,2,3,4
MW-15	6/26/2013	991.50	12.37	979.13	DPE-1,2,3,4
MW-15	8/26/2013	991.50	14.06	977.44	DPE-1,2,3,4
MW-15 MW-15	12/10/2013 2/17/2014	991.50 991.50	13.80 14.11	977.70 977.39	System Off System Off
MW-15 MW-15	4/20/2014	991.50	14.11	977.39	System Off System Off
MW-15	8/21/2014	991.50	14.49	977.01	System Off
MW-15	11/19/2014	991.50	13.54	977.96	System Off
MW-15	2/25/2015	991.50	14.20	977.30	System Off
MW-15	6/15/2015	991.50	12.69	978.81	System Off
MW-15	8/17/2015	991.50	14.19	977.31	System Off
MW-15	9/10/2015	991.50	13.91	977.59	System Off
MW-15	10/12/2015	991.50	15.42	976.08	System Off
MW-15	12/14/2015	991.50	13.65	977.85	DPE System on all wells
MW-15	1/11/2016	991.50	13.81	977.69	DPE System on all wells
MW-15	2/23/2016	991.50	13.29	978.21	DPE System on all wells
MW-15	4/20/2016	991.50	13.64	977.86	DPE System on all wells
MW-15	5/17/2016	991.50	13.04	978.46	DPE System on all wells

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

XX - 11	Dete	Top of	Depth to	C1	
Well	Date	Casing Elevation ^{1,2}	Groundwater	Groundwater Elevation ³	
ID NOW 16	Measured		(feet)		System Status
MW-16	12/3/2008	989.44 989.44	12.32 14.82	977.12	pre-system installation pre-system startup
MW-16 MW-16	6/8/2009 7/9/2009	989.44	14.82	974.62 975.21	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	989.44 989.44	13.41	976.03 975.48	DPE System on all wells DPE System on all wells
MW-16 MW-16	6/17/2010 8/18/2010	989.44	13.96 13.91	975.53	DPE System on all wells
MW-16	9/27/2010	989.44	11.37	973.33	DPE System on all wells
MW-16	11/18/2010	989.44	11.61	977.83	DPE System on an wens 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	989.44 989.44	11.97	977.47	DPE System on all wells
MW-16 MW-16	7/25/2011 8/28/2011	989.44	11.31 12.59	978.13 976.85	DPE System on all wells
MW-16	9/29/2011	989.44	13.09	976.83	DPE System on all wells DPE-1,2,3,4
MW-16	10/18/2011	989.44	11.59	977.85	DPE-1,2,3,4
MW-16	10/27/2011	989.44	12.88	976.56	DPE-1,2,3,4
MW-16	11/21/2011	989.44	13.68	975.76	DPE-1,2,3,4
MW-16	1/20/212	989.44	12.73	976.71	DPE-1,2,3,4
MW-16	1/27/2012	989.44	13.88	975.56	DPE-1,2,3,4
MW-16	2/16/2012	989.44	13.99	975.45	DPE-1,2,3,4
MW-16	3/16/2012	989.44	14.14	975.30	DPE-1,2,3,4
MW-16	3/27/2012	989.44	13.34	976.10	DPE-1,2,3,4
MW-16	4/17/2012	989.44	13.88	975.56	DPE-1,2,3,4
MW-16	5/17/2012	989.44	13.80	975.64	DPE-1,2,3,4
MW-16	5/31/2012	989.44	13.26	976.18	DPE-1,2,3,4
MW-16	6/14/2012	989.44	14.21	975.23	DPE-1,2,3,4
MW-16 MW-16	7/19/2012 8/23/2012	989.44 989.44	14.51 13.99	974.93 975.45	DPE-3 DPE-3
MW-16	9/26/2012	989.44	14.32	975.45	DPE-3
MW-16	10/26/2012	989.44	14.32	975.12	DPE-3
MW-16	12/19/2012	989.44	13.02	976.42	DPE-3; Before restarting the system
MW-16	12/21/2012	989.44	14.12	975.32	DPE-3; After restarting the system
MW-16	1/30/2013	989.44	14.46	974.98	DPE-1,2,3,4
MW-16	2/26/2013	989.44	14.04	975.40	DPE-1,2,3,4
MW-16	3/21/2013	989.44	14.69	974.75	DPE-1,2,3,4
MW-16	5/23/2013	989.44	8.92	980.52	DPE-1,2,3,4
MW-16	6/26/2013	989.44	10.91	978.53	DPE-1,2,3,4
MW-16	8/26/2013	989.44	12.54	976.90	DPE-1,2,3,4
MW-16	12/10/2013	989.44	11.73	977.71	System Off
MW-16	2/17/2014	989.44	12.09	977.35	System Off
MW-16	4/20/2014 8/21/2014	989.44 989.44	10.86	978.58	System Off
MW-16 MW-16	8/21/2014 11/19/2014	989.44	11.94 11.29	977.50 978.15	System Off System Off
MW-16	2/25/2015	989.44	12.13	978.13	System Off
MW-16	6/15/2015	989.44	10.88	977.51	System Off
MW-16	8/17/2015	989.44	12.06	977.38	System Off
MW-16	9/10/2015	989.44	11.83	977.61	System Off
MW-16	10/12/2015	989.44	13.21	976.23	System Off
MW-16	12/14/2015	989.44	11.64	977.80	DPE System on all wells
MW-16	1/11/2016	989.44	11.99	977.45	DPE System on all wells
MW-16	2/23/2016	989.44	11.27	978.17	DPE System on all wells
MW-16	4/20/2016	989.44	11.28	978.16	DPE System on all wells
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GROUNDWATER ELEVATIONS MN Bio Business Center

221 First Avenue SW Rochester, Minnesota

XX 11	ъ.	Top of	Depth to		
Well	Date	Casing Elevation ^{1,2}	Groundwater	Groundwater	
ID	Measured		(feet)	Elevation ³	System Status
MW-17	12/3/2008	989.53	12.81	976.72	pre-system installation
MW-17	6/8/2009 7/9/2009	989.53 989.53	13.69 14.44	975.84	pre-system startup DPE system on DPE-1
MW-17 MW-17	7/9/2009	989.53	14.44	975.09 975.18	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 MW-17	6/17/2010	989.53	14.13	975.40 974.45	DPE System on all wells
MW-17 MW-17	8/18/2010 9/27/2010	989.53 989.53	15.08 12.68	974.45	DPE System on all wells DPE System on all wells
MW-17	11/18/2010	989.53	12.68	976.85	DPE System on an wens DPE System not operating
MW-17	12/22/2010	989.53	12.50	977.03	DPE System not operating 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	989.53 989.53	13.41 13.04	976.12 976.49	DPE System on all wells DPE-1,2,3,4
MW-17 MW-17	9/29/2011 10/18/2011	989.53	12.66	976.49	DPE-1,2,3,4 DPE-1,2,3,4
MW-17	10/13/2011	989.53	13.08	976.45	DPE-1,2,3,4
MW-17	11/21/2011	989.53	13.48	976.05	DPE-1,2,3,4
MW-17	1/20/2012	989.53	13.72	975.81	DPE-1,2,3,4
MW-17	1/27/2012	989.53	13.99	975.54	DPE-1,2,3,4
MW-17	2/16/2012	989.53	14.04	975.49	DPE-1,2,3,4
MW-17	3/16/2012	989.53	14.11	975.42	DPE-1,2,3,4
MW-17	3/27/2012	989.53	13.59	975.94	DPE-1,2,3,4
MW-17	4/17/2012	989.53	13.83	975.70	DPE-1,2,3,4
MW-17	5/17/2012	989.53	13.91	975.62	DPE-1,2,3,4
MW-17	5/31/2012	989.53	13.99	975.54	DPE-1,2,3,4
MW-17	6/14/2012	989.53	14.48	975.05	DPE-1,2,3,4
MW-17 MW-17	7/19/2012 8/23/2012	989.53 989.53	15.29 14.68	974.24 974.85	DPE-3 DPE-3
MW-17 MW-17	9/26/2012	989.53	14.88	974.85	DPE-3
MW-17	10/26/2012	989.53	14.68	974.03	DPE-3
MW-17	12/19/2012	989.53	13.86	975.67	DPE-3; Before restarting the system
MW-17	12/21/2012	989.53	14.21	975.32	DPE-3; After restarting the system
MW-17	1/30/2013	989.53	13.92	975.61	DPE-1,2,3,4
MW-17	2/26/2013	989.53	14.28	975.25	DPE-1,2,3,4
MW-17	3/21/2013	989.53	14.30	975.23	DPE-1,2,3,4
MW-17	5/23/2013	989.53	10.19	979.34	DPE-1,2,3,4
MW-17	6/26/2013	989.53	10.71	978.82	DPE-1,2,3,4
MW-17	8/26/2013	989.53	12.56	976.97	DPE-1,2,3,4
MW-17	12/10/2013	989.53	12.70	976.83	System Off
MW-17	2/17/2014	989.53	12.86	976.67	System Off
MW-17	4/20/2014 8/21/2014	989.53	11.84	977.69	System Off
MW-17 MW-17	8/21/2014 11/19/2014	989.53 989.53	13.13 12.13	976.40 977.40	System Off System Off
MW-17	2/25/2015	989.53	12.13	977.40	System Off
MW-17	6/15/2015	989.53	11.91	970.04	System Off
MW-17	8/17/2015	989.53	13.08	976.45	System Off
MW-17	9/10/2015	989.53	12.82	976.71	System Off
MW-17	10/12/2015	989.53	13.07	976.46	System Off
MW-17	12/14/2015	989.53	12.39	977.14	DPE System on all wells
MW-17	1/11/2016	989.53	12.25	977.28	DPE System on all wells
MW-17	2/23/2016	989.53	11.92	977.61	DPE System on all wells
		989.53	11.44	978.09	DPE System on all wells
MW-17	4/20/2016	909.33	11.44	976.09	DI E System on an wens

GROUNDWATER ELEVATIONS MN Bio Business Center

221 First Avenue SW Rochester, Minnesota

	1	т с	D. d.		T
Well	Date	Top of Casing	Depth to Groundwater	Groundwater	
ID	Measured	Elevation ^{1,2}	(feet)	Elevation ³	System Status
MW-18	12/3/2008	989.50	13.82	975.68	pre-system installation
MW-18	6/8/2009	989.50	14.22	975.28	pre-system startup
MW-18	7/9/2009	989.50	16.61	972.89	DPE system on DPE-1
MW-18	7/9/2009	989.50	15.61	973.89	DPE system temporarily off
MW-18	9/4/2009	989.50	15.37	974.13	DPE system on
MW-18	9/4/2009	989.50	15.38	974.12	DPE system on after replacing inlet screen
MW-18 MW-18	9/4/2009 10/15/2009	989.50 989.50	15.40 15.18	974.10 974.32	DPE system on after replacing inlet filter DPE system on DPE-1
MW-18	10/13/2009	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 MW-18	4/16/2010 5/12/2010	989.50 989.50	13.83 14.60	975.67 974.90	DPE System on all wells DPE System on all wells
MW-18	6/17/2010	989.50	15.14	974.36	DPE System on all wells
MW-18	8/18/2010	989.50	16.53	972.97	DPE System on all wells
MW-18	9/27/2010	989.50	13.79	975.71	DPE System on all wells
MW-18	11/18/2010	989.50	13.54	975.96	DPE System not operating
MW-18	12/22/2010	989.50	13.20	976.30	DPE System restarted
MW-18	1/6/2011	989.50	13.03	976.47	DPE System on all wells
MW-18	1/20/2011	989.50	12.88	976.62	DPE System on all wells
MW-18 MW-18	2/28/2011 3/7/2011	989.50 989.50	12.79 13.21	976.71 976.29	DPE System on all wells DPE System on all wells
MW-18	3/18/2011	989.50	12.99	976.29	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 MW-18	10/18/2011 10/27/2011	989.50 989.50	13.44 13.56	976.06 975.94	DPE-1,2,3,4 DPE-1,2,3,4
MW-18	11/21/2011	989.50	13.88	975.62	DPE-1,2,3,4 DPE-1,2,3,4
MW-18	1/20/2012	989.50	14.42	975.08	DPE-1,2,3,4
MW-18	1/27/2012	989.50	14.53	974.97	DPE-1,2,3,4
MW-18	2/16/2012	989.50	14.63	974.87	DPE-1,2,3,4
MW-18	3/16/2012	989.50	14.71	974.79	DPE-1,2,3,4
MW-18	3/27/2012	989.50	14.22	975.28	DPE-1,2,3,4
MW-18	4/17/2012	989.50	14.26	975.24	DPE-1,2,3,4
MW-18 MW-18	5/17/2012 5/31/2012	989.50 989.50	14.88 14.96	974.62 974.54	DPE-1,2,3,4 DPE-1,2,3,4
MW-18	6/14/2012	989.50	15.47	974.03	DPE-1,2,3,4
MW-18	7/19/2012	989.50	16.70	972.80	DPE-3
MW-18	8/23/2012	989.50	16.02	973.48	DPE-3
MW-18	9/26/2012	989.50	16.06	973.44	DPE-3
MW-18	10/26/2012	989.50	15.82	973.68	DPE-3
MW-18	12/19/2012	989.50	14.53	974.97	DPE-3; Before restarting the system
MW-18	1/20/2012	989.50	14.80	974.70	DPE-1-2-3-4
MW-18 MW-18	1/30/2013 2/26/2013	989.50 989.50	14.25 14.84	975.25 974.66	DPE-1,2,3,4 DPE-1,2,3,4
MW-18	3/21/2013	989.50	14.83	974.66	DPE-1,2,3,4 DPE-1,2,3,4
MW-18	5/23/2013	989.50	11.09	978.41	DPE-1,2,3,4
MW-18	6/26/2013	989.50	11.34	978.16	DPE-1,2,3,4
MW-18	8/26/2013	989.50	13.39	976.11	DPE-1,2,3,4
MW-18	12/10/2013	989.50	13.38	976.12	System Off
MW-18	2/17/2014	989.50	13.35	976.15	System Off
MW-18	4/20/2014	989.50	12.62	976.88	System Off
MW-18 MW-18	8/21/2014 11/19/2014	989.50 989.50	14.10 12.88	975.40 976.62	System Off System Off
MW-18	2/25/2015	989.50	13.35	976.62	System Off
MW-18	6/15/2015	989.50	12.27	977.23	System Off
MW-18	8/17/2015	989.50	14.08	975.42	System Off
MW-18	9/10/2015	989.50	13.81	975.69	System Off
MW-18	10/12/2015	989.50	13.49	976.01	System Off
MW-18	12/14/2015	989.50	12.94	976.56	DPE System on all wells
MW-18	1/11/2016	989.50	12.64	976.86	DPE System on all wells
MW-18	2/23/2016	989.50	12.20	977.30	DPE System on all wells
MW-18 MW-18	4/20/2016 5/17/2016	989.50 989.50	11.67 11.26	977.83 978.24	DPE System on all wells Dpe System on all wells
141 44 -10	3/11/2010	707.30	11.20	>10.∠ 4	De Dystem on an wens
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XX 11	ъ.	Top of	Depth to					
Well	Date	Casing Elevation ^{1,2}	Groundwater	Groundwater				
ID	Measured		(feet)	Elevation ³	System Status			
MW-19	12/3/2008			978.68	pre-system installation pre-system startup			
MW-19 MW-19	6/8/2009 7/9/2009	991.13 991.13	13.40 14.75	977.73 976.38	DPE system on DPE-1			
MW-19	7/9/2009	991.13	14.58	976.55	DPE system on DPE-1 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 MW-19	2/22/2010 3/25/2010	991.13 991.13	14.62 13.81	976.51 977.32	DPE System on all wells 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 MW-19	3/18/2011	991.13 991.13	13.56 12.09	977.57 979.04	DPE System on all wells DPE System on all wells			
MW-19	3/23/2011 4/22/2011	991.13	12.09	979.04	DPE System on all wells			
MW-19	5/19/2011	991.13	12.42	978.71	DPE System on all wells			
MW-19	6/16/2011	991.13	13.05	978.08	DPE System on all wells			
MW-19	7/25/2011	991.13	12.42	978.71	DPE System on all wells			
MW-19	8/28/2011	991.13	14.29	976.84	DPE System on all wells			
MW-19	9/29/2011	991.13	14.05	977.08	DPE-1,2,3,4			
MW-19	10/18/2011	991.13	13.33	977.80	DPE-1,2,3,4			
MW-19	10/27/2011	991.13	14.32	976.81	DPE-1,2,3,4			
MW-19	11/21/2011	991.13	14.74	976.39	DPE-1,2,3,4			
MW-19	1/20/2012	991.13	14.76	976.37	DPE-1,2,3,4			
MW-19	1/27/2012	991.13	15.43	975.70	DPE-1,2,3,4			
MW-19	2/16/2012	991.13	15.46	975.67	DPE-1,2,3,4			
MW-19 MW-19	3/16/2012 3/27/2012	991.13 991.13	15.59 14.60	975.54 976.53	DPE-1,2,3,4 DPE-1,2,3,4			
MW-19	4/17/2012	991.13	15.37	975.76	DPE-1,2,3,4			
MW-19	5/17/2012	991.13	15.03	976.10	DPE-1,2,3,4			
MW-19	5/31/2012	991.13	14.79	976.34	DPE-1,2,3,4			
MW-19	6/14/2012	991.13	15.56	975.57	DPE-1,2,3,4			
MW-19	7/19/2012	991.13	16.06	975.07	DPE-3			
MW-19	8/23/2012	991.13	15.38	975.75	DPE-3			
MW-19	9/26/2012	991.13	15.77	975.36	DPE-3			
MW-19	10/26/2012	991.13	15.89	975.24	DPE-3			
MW-19	12/19/2012	991.13	14.91	976.22	DPE-3; Before restarting the system			
MW-19 MW-19	12/21/2012 1/30/2013	991.13 991.13	15.32 15.39	975.81 975.74	DPE-3; After restarting the system DPE-1,2,3,4			
MW-19 MW-19	2/26/2013	991.13	15.39	975.74	DPE-1,2,3,4 DPE-1,2,3,4			
MW-19	3/21/2013	991.13	15.70	975.43	DPE-1,2,3,4 DPE-1,2,3,4			
MW-19	5/23/2013	991.13	9.74	981.39	DPE-1,2,3,4			
MW-19	6/26/2013	991.13	10.93	980.20	DPE-1,2,3,4			
MW-19	8/26/2013	991.13	12.82	978.31	DPE-1,2,3,4			
MW-19	12/10/2013	991.13	13.13	978.00	System Off			
MW-19	2/17/2014	991.13	13.98	977.15	System Off			
MW-19	4/20/2014	991.13	12.52	978.61	System Off			
MW-19	8/21/2014	991.13	14.11	977.02	System Off			
MW-19	11/19/2014	991.13	13.11	978.02	System Off			
MW-19	2/25/2015	991.13 991.13	14.04	977.09	System Off System Off			
MW-19 MW-19	6/15/2015 8/17/2015	991.13	12.56 13.88	978.57 977.25	System Off System Off			
MW-19 MW-19	9/10/2015	991.13	13.88	977.55	System Off System Off			
MW-19	10/12/2015	991.13	14.41	977.33	System Off			
MW-19	12/14/2015	991.13	13.10	978.03	DPE System on all wells			
MW-19	1/11/2016	991.13	13.63	977.50	DPE System on all wells			
MW-19	2/23/2016	991.13	13.10	978.03	DPE System on all wells			
MW-19	4/20/2016	991.13	12.77	978.36	DPE System on all wells			
MW-19	5/17/2016	991.13	12.50	978.63	DPE System on all wells			

		Top of	Depth to		
Well	Date	Casing	Groundwater	Groundwater	
ID	Measured	Elevation ^{1,2}	(feet)	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 MW-20	7/9/2009 7/9/2009	991.50 991.50	12.19 12.24	979.31 979.26	DPE system on DPE-1 DPE system temporarily off
MW-20	9/4/2009	991.50	12.24	979.26	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 MW-20	1/14/2010 2/22/2010	991.50 991.50	12.34 12.78	979.16 978.72	DPE System on all wells 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	979.82 979.35	DPE System not operating
MW-20 MW-20	12/22/2010 1/6/2011	991.50 991.50	12.15 11.99	979.33	DPE System restarted 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 MW-20	7/25/2011 8/28/2011	991.50 991.50	10.13 12.32	981.37 979.18	DPE System on all wells DPE System on all wells
MW-20 MW-20	9/29/2011	991.50	12.48	979.18	DPE-1,2,3,4
MW-20	10/18/2011	991.50	12.31	979.19	DPE-1,2,3,4
MW-20	10/27/2011	991.50	12.98	978.52	DPE-1,2,3,4
MW-20	11/21/2011	991.50	13.46	978.04	DPE-1,2,3,4
MW-20	1/20/2012	991.50	13.71	977.79	DPE-1,2,3,4
MW-20 MW-20	1/27/2012	991.50	13.71 13.96	977.54	DPE-1,2,3,4
MW-20 MW-20 MW-20	1/27/2012 2/16/2012	991.50 991.50	13.71 13.96 14.08	977.54 977.42	DPE-1,2,3,4 DPE-1,2,3,4
MW-20 MW-20 MW-20 MW-20	1/27/2012 2/16/2012 3/16/2012	991.50 991.50 991.50	13.71 13.96 14.08 14.20	977.54 977.42 977.30	DPE-1,2,3,4 DPE-1,2,3,4 DPE-1,2,3,4
MW-20 MW-20 MW-20 MW-20 MW-20	1/27/2012 2/16/2012 3/16/2012 3/27/2012	991.50 991.50 991.50 991.50	13.71 13.96 14.08 14.20 13.64	977.54 977.42 977.30 977.86	DPE-1,2,3,4 DPE-1,2,3,4 DPE-1,2,3,4 DPE-1,2,3,4
MW-20 MW-20 MW-20 MW-20 MW-20 MW-20	1/27/2012 2/16/2012 3/16/2012 3/27/2012 4/17/2012	991.50 991.50 991.50 991.50 991.50	13.71 13.96 14.08 14.20 13.64 14.03	977.54 977.42 977.30 977.86 977.47	DPE-1,2,3,4 DPE-1,2,3,4 DPE-1,2,3,4 DPE-1,2,3,4 DPE-1,2,3,4
MW-20 MW-20 MW-20 MW-20 MW-20 MW-20 MW-20	1/27/2012 2/16/2012 3/16/2012 3/27/2012 4/17/2012 5/17/2012	991.50 991.50 991.50 991.50 991.50 991.50	13.71 13.96 14.08 14.20 13.64 14.03 13.59	977.54 977.42 977.30 977.86 977.47 977.91	DPE-1,2,3,4 DPE-1,2,3,4 DPE-1,2,3,4 DPE-1,2,3,4 DPE-1,2,3,4 DPE-1,2,3,4
MW-20 MW-20 MW-20 MW-20 MW-20 MW-20	1/27/2012 2/16/2012 3/16/2012 3/27/2012 4/17/2012	991.50 991.50 991.50 991.50 991.50	13.71 13.96 14.08 14.20 13.64 14.03	977.54 977.42 977.30 977.86 977.47	DPE-1,2,3,4 DPE-1,2,3,4 DPE-1,2,3,4 DPE-1,2,3,4 DPE-1,2,3,4 DPE-1,2,3,4 DPE-1,2,3,4
MW-20 MW-20 MW-20 MW-20 MW-20 MW-20 MW-20 MW-20	1/27/2012 2/16/2012 3/16/2012 3/27/2012 4/17/2012 5/17/2012 5/31/2012	991.50 991.50 991.50 991.50 991.50 991.50 991.50	13.71 13.96 14.08 14.20 13.64 14.03 13.59 13.38	977.54 977.42 977.30 977.86 977.47 977.91 978.12	DPE-1,2,3,4 DPE-1,2,3,4 DPE-1,2,3,4 DPE-1,2,3,4 DPE-1,2,3,4 DPE-1,2,3,4
MW-20 MW-20 MW-20 MW-20 MW-20 MW-20 MW-20 MW-20 MW-20 MW-20 MW-20 MW-20	1/27/2012 2/16/2012 3/16/2012 3/27/2012 4/17/2012 5/17/2012 5/31/2012 6/14/2012 7/19/2012 8/23/2012	991.50 991.50 991.50 991.50 991.50 991.50 991.50 991.50 991.50	13.71 13.96 14.08 14.20 13.64 14.03 13.59 13.38 13.81 13.71 13.13	977.54 977.42 977.30 977.86 977.47 977.91 978.12 977.69 977.79 978.37	DPE-1,2,3,4 DPE-3 DPE-3
MW-20 MW-20 MW-20 MW-20 MW-20 MW-20 MW-20 MW-20 MW-20 MW-20 MW-20 MW-20 MW-20	1/27/2012 2/16/2012 3/16/2012 3/27/2012 4/17/2012 5/17/2012 5/31/2012 6/14/2012 7/19/2012 8/23/2012 9/26/2012	991.50 991.50 991.50 991.50 991.50 991.50 991.50 991.50 991.50 991.50	13.71 13.96 14.08 14.20 13.64 14.03 13.59 13.38 13.81 13.71 13.13	977.54 977.42 977.30 977.86 977.47 977.91 978.12 977.69 977.79 978.37 977.62	DPE-1,2,3,4 DPE-3 DPE-3 DPE-3
MW-20 MW-20 MW-20 MW-20 MW-20 MW-20 MW-20 MW-20 MW-20 MW-20 MW-20 MW-20 MW-20 MW-20	1/27/2012 2/16/2012 3/16/2012 3/27/2012 4/17/2012 5/17/2012 5/31/2012 6/14/2012 7/19/2012 8/23/2012 9/26/2012	991.50 991.50 991.50 991.50 991.50 991.50 991.50 991.50 991.50 991.50 991.50	13.71 13.96 14.08 14.20 13.64 14.03 13.59 13.38 13.81 13.71 13.13 13.88 14.09	977.54 977.42 977.30 977.86 977.47 977.91 978.12 977.69 977.79 978.37 977.62 977.41	DPE-1,2,3,4 DPE-3 DPE-3 DPE-3 DPE-3 DPE-3 DPE-3
MW-20 MW-20 MW-20 MW-20 MW-20 MW-20 MW-20 MW-20 MW-20 MW-20 MW-20 MW-20 MW-20 MW-20 MW-20	1/27/2012 2/16/2012 3/16/2012 3/27/2012 3/27/2012 5/17/2012 5/31/2012 6/14/2012 7/19/2012 8/23/2012 10/26/2012 10/26/2012	991.50 991.50 991.50 991.50 991.50 991.50 991.50 991.50 991.50 991.50 991.50	13.71 13.96 14.08 14.20 13.64 14.03 13.59 13.38 13.81 13.71 13.13 13.88 14.09 13.79	977.54 977.42 977.30 977.86 977.47 977.91 978.12 977.69 977.79 978.37 977.62 977.41 977.71	DPE-1,2,3,4 DPE-1,2,3,4 DPE-1,2,3,4 DPE-1,2,3,4 DPE-1,2,3,4 DPE-1,2,3,4 DPE-1,2,3,4 DPE-1,2,3,4 DPE-1,2,3,4 DPE-1,2,3,5 DPE-3 DPE-3 DPE-3 DPE-3 DPE-3 DPE-3 DPE-3 DPE-3; Before restarting the system
MW-20 MW-20 MW-20 MW-20 MW-20 MW-20 MW-20 MW-20 MW-20 MW-20 MW-20 MW-20 MW-20 MW-20 MW-20 MW-20	1/27/2012 2/16/2012 3/16/2012 3/27/2012 3/27/2012 5/17/2012 5/31/2012 6/14/2012 7/19/2012 8/23/2012 10/26/2012 10/26/2012 12/19/2012	991.50 991.50 991.50 991.50 991.50 991.50 991.50 991.50 991.50 991.50 991.50 991.50	13.71 13.96 14.08 14.20 13.64 14.03 13.59 13.38 13.81 13.71 13.13 13.88 14.09 13.79 13.84	977.54 977.42 977.30 977.86 977.47 977.91 978.12 977.69 977.79 978.37 977.62 977.41 977.71	DPE-1,2,3,4 DPE-1,2,3,4 DPE-1,2,3,4 DPE-1,2,3,4 DPE-1,2,3,4 DPE-1,2,3,4 DPE-1,2,3,4 DPE-1,2,3,4 DPE-1,2,3,4 DPE-3,3,4 DPE-3 DPE-3 DPE-3 DPE-3 DPE-3 DPE-3 DPE-3; Before restarting the system DPE-3; After restarting the system
MW-20 MW-20 MW-20 MW-20 MW-20 MW-20 MW-20 MW-20 MW-20 MW-20 MW-20 MW-20 MW-20 MW-20 MW-20 MW-20 MW-20	1/27/2012 2/16/2012 3/16/2012 3/27/2012 4/17/2012 5/31/2012 5/31/2012 6/14/2012 7/19/2012 8/23/2012 9/26/2012 10/26/2012 12/19/2012 12/21/2012	991.50 991.50 991.50 991.50 991.50 991.50 991.50 991.50 991.50 991.50 991.50 991.50 991.50	13.71 13.96 14.08 14.20 13.64 14.03 13.59 13.38 13.81 13.71 13.13 13.88 14.09 13.79 13.84 14.09	977.54 977.42 977.30 977.86 977.47 977.91 978.12 977.69 977.79 978.37 977.62 977.41 977.66 977.41	DPE-1,2,3,4 DPE-1,2,3,4 DPE-1,2,3,4 DPE-1,2,3,4 DPE-1,2,3,4 DPE-1,2,3,4 DPE-1,2,3,4 DPE-1,2,3,4 DPE-1,2,3,4 DPE-3 DPE-3 DPE-3 DPE-3 DPE-3 DPE-3 DPE-3 DPE-3; Before restarting the system DPE-3; After restarting the system
MW-20	1/27/2012 2/16/2012 3/16/2012 3/27/2012 4/17/2012 5/31/2012 5/31/2012 6/14/2012 7/19/2012 8/23/2012 9/26/2012 10/26/2012 12/19/2012 13/0/2013 2/26/2013	991.50 991.50 991.50 991.50 991.50 991.50 991.50 991.50 991.50 991.50 991.50 991.50 991.50 991.50	13.71 13.96 14.08 14.20 13.64 14.03 13.59 13.38 13.81 13.71 13.13 13.88 14.09 13.79 13.84 14.09 14.26	977.54 977.42 977.30 977.86 977.47 977.91 978.12 977.69 977.79 978.37 977.62 977.41 977.66 977.41 977.66	DPE-1,2,3,4 DPE-1,2,3,4 DPE-1,2,3,4 DPE-1,2,3,4 DPE-1,2,3,4 DPE-1,2,3,4 DPE-1,2,3,4 DPE-1,2,3,4 DPE-3,3,4 DPE-3 DPE-3 DPE-3 DPE-3 DPE-3 DPE-3 DPE-3; Before restarting the system DPE-3; After restarting the system DPE-1,2,3,4 DPE-1,2,3,4
MW-20 MW-20 MW-20 MW-20 MW-20 MW-20 MW-20 MW-20 MW-20 MW-20 MW-20 MW-20 MW-20 MW-20 MW-20 MW-20 MW-20	1/27/2012 2/16/2012 3/16/2012 3/27/2012 4/17/2012 5/31/2012 5/31/2012 6/14/2012 7/19/2012 8/23/2012 9/26/2012 10/26/2012 12/19/2012 12/21/2012	991.50 991.50 991.50 991.50 991.50 991.50 991.50 991.50 991.50 991.50 991.50 991.50 991.50	13.71 13.96 14.08 14.20 13.64 14.03 13.59 13.38 13.81 13.71 13.13 13.88 14.09 13.79 13.84 14.09	977.54 977.42 977.30 977.86 977.47 977.91 978.12 977.69 977.79 978.37 977.62 977.41 977.66 977.41	DPE-1,2,3,4 DPE-1,2,3,4 DPE-1,2,3,4 DPE-1,2,3,4 DPE-1,2,3,4 DPE-1,2,3,4 DPE-1,2,3,4 DPE-1,2,3,4 DPE-1,2,3,4 DPE-3 DPE-3 DPE-3 DPE-3 DPE-3 DPE-3 DPE-3 DPE-3; Before restarting the system DPE-3; After restarting the system
MW-20	1/27/2012 2/16/2012 3/16/2012 3/27/2012 4/17/2012 5/31/2012 6/14/2012 7/19/2012 8/23/2012 9/26/2012 10/26/2012 12/19/2012 12/21/2012 1/30/2013 3/21/2013	991.50 991.50 991.50 991.50 991.50 991.50 991.50 991.50 991.50 991.50 991.50 991.50 991.50 991.50	13.71 13.96 14.08 14.20 13.64 14.03 13.59 13.38 13.81 13.71 13.13 13.88 14.09 13.79 13.84 14.09 14.26 13.83	977.54 977.42 977.30 977.86 977.47 977.91 978.12 977.69 977.79 978.37 977.62 977.41 977.71 977.66 977.41 977.24 977.67	DPE-1,2,3,4 DPE-1,2,3,4 DPE-1,2,3,4 DPE-1,2,3,4 DPE-1,2,3,4 DPE-1,2,3,4 DPE-1,2,3,4 DPE-1,2,3,4 DPE-3,3,4 DPE-3 DPE-3 DPE-3 DPE-3 DPE-3 DPE-3; After restarting the system DPE-3; After restarting the system DPE-1,2,3,4 DPE-1,2,3,4 DPE-1,2,3,4 DPE-1,2,3,4 DPE-1,2,3,4 DPE-1,2,3,4
MW-20	1/27/2012 2/16/2012 3/16/2012 3/27/2012 3/27/2012 5/17/2012 5/31/2012 6/14/2012 7/19/2012 8/23/2012 10/26/2012 12/19/2012 12/21/2012 1/30/2013 2/26/2013 3/21/2013 5/23/2013 8/26/2013	991.50 991.50 991.50 991.50 991.50 991.50 991.50 991.50 991.50 991.50 991.50 991.50 991.50 991.50 991.50 991.50 991.50	13.71 13.96 14.08 14.20 13.64 14.03 13.59 13.38 13.81 13.71 13.13 13.88 14.09 13.79 13.84 14.09 14.26 13.83 7.39 9.62 11.70	977.54 977.42 977.30 977.86 977.47 977.91 978.12 977.69 977.79 978.37 977.62 977.41 977.66 977.41 977.66 977.41 977.67 984.11 981.88 979.80	DPE-1,2,3,4 DPE-1,2,3,4 DPE-1,2,3,4 DPE-1,2,3,4 DPE-1,2,3,4 DPE-1,2,3,4 DPE-1,2,3,4 DPE-1,2,3,4 DPE-1,2,3,4 DPE-3 DPE-3 DPE-3 DPE-3 DPE-3 DPE-3 DPE-3; Before restarting the system DPE-1,2,3,4
MW-20	1/27/2012 2/16/2012 3/16/2012 3/27/2012 3/27/2012 5/17/2012 5/31/2012 6/14/2012 7/19/2012 8/23/2012 9/26/2012 12/19/2012 12/21/2012 12/21/2013 3/21/2013 5/23/2013 6/26/2013 8/26/2013 12/10/2013	991.50 991.50 991.50 991.50 991.50 991.50 991.50 991.50 991.50 991.50 991.50 991.50 991.50 991.50 991.50 991.50 991.50 991.50	13.71 13.96 14.08 14.20 13.64 14.03 13.59 13.38 13.81 13.71 13.13 13.88 14.09 13.79 13.84 14.09 14.26 13.83 7.39 9.62 11.70 12.71	977.54 977.42 977.30 977.86 977.47 977.91 978.12 977.69 977.79 978.37 977.62 977.41 977.66 977.41 977.67 984.11 981.88 979.80 978.79	DPE-1,2,3,4 DPE-1,2,3,4 DPE-1,2,3,4 DPE-1,2,3,4 DPE-1,2,3,4 DPE-1,2,3,4 DPE-1,2,3,4 DPE-1,2,3,4 DPE-1,2,3,4 DPE-3 DPE-3 DPE-3 DPE-3 DPE-3 DPE-3 DPE-3; Before restarting the system DPE-1,2,3,4
MW-20	1/27/2012 2/16/2012 3/16/2012 3/16/2012 4/17/2012 5/31/2012 6/14/2012 7/19/2012 8/23/2012 9/26/2012 10/26/2012 12/19/2012 12/21/2012 12/21/2013 5/23/2013 6/26/2013 3/21/2013 5/23/2013 6/26/2013 12/10/2013 12/10/2013 12/10/2013	991.50 991.50 991.50 991.50 991.50 991.50 991.50 991.50 991.50 991.50 991.50 991.50 991.50 991.50 991.50 991.50 991.50 991.50 991.50	13.71 13.96 14.08 14.20 13.64 14.03 13.59 13.38 13.81 13.71 13.13 13.88 14.09 13.79 13.84 14.09 14.26 13.83 7.39 9.62 11.70 12.71 13.33	977.54 977.42 977.30 977.86 977.47 977.91 978.12 977.69 977.79 978.37 977.62 977.41 977.71 977.66 977.41 977.24 977.67 984.11 981.88 979.80 978.79 978.17	DPE-1,2,3,4 DPE-1,2,3,4 DPE-1,2,3,4 DPE-1,2,3,4 DPE-1,2,3,4 DPE-1,2,3,4 DPE-1,2,3,4 DPE-1,2,3,4 DPE-1,2,3,4 DPE-3 DPE-3 DPE-3 DPE-3 DPE-3 DPE-3; Before restarting the system DPE-3; After restarting the system DPE-1,2,3,4 D
MW-20	1/27/2012 2/16/2012 3/16/2012 3/27/2012 4/17/2012 5/31/2012 6/14/2012 7/19/2012 8/23/2012 10/26/2012 10/26/2012 12/19/2012 12/19/2012 12/2012 12/2012 12/2012 12/2012 12/2013 5/23/2013 6/26/2013 8/26/2013 8/26/2013 8/26/2013 8/26/2013	991.50 991.50 991.50 991.50 991.50 991.50 991.50 991.50 991.50 991.50 991.50 991.50 991.50 991.50 991.50 991.50 991.50 991.50 991.50 991.50	13.71 13.96 14.08 14.08 14.20 13.64 14.03 13.59 13.38 13.81 13.71 13.13 13.88 14.09 13.79 13.84 14.09 14.26 13.83 7.39 9.62 11.70 12.71 13.33 10.94	977.54 977.42 977.30 977.86 977.47 977.91 978.12 977.69 977.79 978.37 977.62 977.41 977.66 977.41 977.76 984.11 981.88 979.80 978.79 978.17 980.56	DPE-1,2,3,4 DPE-1,2,3,4 DPE-1,2,3,4 DPE-1,2,3,4 DPE-1,2,3,4 DPE-1,2,3,4 DPE-1,2,3,4 DPE-1,2,3,4 DPE-1,2,3,4 DPE-3,3,4 DPE-3 DPE-3 DPE-3 DPE-3 DPE-3; Before restarting the system DPE-3; After restarting the system DPE-1,2,3,4 DPE-1,2,3
MW-20	1/27/2012 2/16/2012 3/16/2012 3/27/2012 5/17/2012 5/17/2012 5/31/2012 6/14/2012 7/19/2012 10/26/2012 10/26/2012 12/19/2012 12/19/2012 12/21/2013 5/23/2013 6/26/2013 3/21/2013 8/26/2013 12/10/2014 4/20/2014	991.50 991.50 991.50 991.50 991.50 991.50 991.50 991.50 991.50 991.50 991.50 991.50 991.50 991.50 991.50 991.50 991.50 991.50 991.50 991.50	13.71 13.96 14.08 14.08 14.20 13.64 14.03 13.59 13.38 13.81 13.71 13.13 13.88 14.09 13.79 13.84 14.09 13.79 13.84 14.09 14.26 13.83 7.39 9.62 11.70 12.71 13.33 10.94 12.06	977.54 977.42 977.30 977.86 977.47 977.91 978.12 977.69 977.79 978.37 977.62 977.41 977.66 977.41 977.67 984.11 981.88 979.80 978.79 978.17 980.56 979.44	DPE-1,2,3,4 DPE-1,2,3,4 DPE-1,2,3,4 DPE-1,2,3,4 DPE-1,2,3,4 DPE-1,2,3,4 DPE-1,2,3,4 DPE-1,2,3,4 DPE-1,2,3,4 DPE-3 DPE-3 DPE-3 DPE-3 DPE-3 DPE-3; Before restarting the system DPE-1,2,3,4
MW-20	1/27/2012 2/16/2012 3/16/2012 3/27/2012 3/27/2012 5/17/2012 5/17/2012 5/17/2012 6/14/2012 7/19/2012 8/23/2012 10/26/2012 12/19/2012 12/19/2012 12/21/2013 2/26/2013 8/26/2013 8/26/2013 12/10/2014 8/21/2014 1/19/2014	991.50 991.50 991.50 991.50 991.50 991.50 991.50 991.50 991.50 991.50 991.50 991.50 991.50 991.50 991.50 991.50 991.50 991.50 991.50 991.50	13.71 13.96 14.08 14.08 14.20 13.64 14.03 13.59 13.38 13.81 13.71 13.13 13.88 14.09 13.79 13.84 14.09 13.79 13.84 14.09 13.73 13.83 7.39 9.62 11.70 12.71 13.33 10.94 12.06 12.22	977.54 977.42 977.30 977.86 977.47 977.91 978.12 977.69 977.79 978.37 977.62 977.41 977.66 977.41 977.67 984.11 981.88 979.80 978.79 978.79 978.79 978.79	DPE-1,2,3,4 DPE-1,2,3,4 DPE-1,2,3,4 DPE-1,2,3,4 DPE-1,2,3,4 DPE-1,2,3,4 DPE-1,2,3,4 DPE-1,2,3,4 DPE-1,2,3,4 DPE-3 DPE-3 DPE-3 DPE-3 DPE-3 DPE-3 DPE-3; Before restarting the system DPE-1,2,3,4 DPE-1,
MW-20	1/27/2012 2/16/2012 3/16/2012 3/27/2012 3/27/2012 5/17/2012 5/31/2012 6/14/2012 7/19/2012 8/23/2012 9/26/2012 10/26/2012 12/19/2012 12/21/2012 1/30/2013 2/26/2013 8/26/2013 8/26/2013 12/10/2014 4/20/2014 4/20/2014 4/21/2014 11/19/2014 2/25/2015	991.50 991.50 991.50 991.50 991.50 991.50 991.50 991.50 991.50 991.50 991.50 991.50 991.50 991.50 991.50 991.50 991.50 991.50 991.50 991.50 991.50 991.50 991.50 991.50	13.71 13.96 14.08 14.20 13.64 14.03 13.59 13.38 13.81 13.71 13.13 13.88 14.09 13.79 13.84 14.09 14.26 13.83 7.39 9.62 11.70 12.71 13.33 10.94 12.06 12.22 13.30	977.54 977.42 977.30 977.86 977.47 977.91 978.12 977.69 977.79 978.37 977.62 977.41 977.66 977.41 977.66 977.41 977.67 984.11 981.88 979.80 978.79 978.79 978.79 978.79	DPE-1,2,3,4 DPE-1,2,3,4 DPE-1,2,3,4 DPE-1,2,3,4 DPE-1,2,3,4 DPE-1,2,3,4 DPE-1,2,3,4 DPE-1,2,3,4 DPE-1,2,3,4 DPE-3 DPE-3 DPE-3 DPE-3 DPE-3 DPE-3 DPE-3; Before restarting the system DPE-1,2,3,4 System Off
MW-20	1/27/2012 2/16/2012 3/16/2012 3/16/2012 3/27/2012 4/17/2012 5/17/2012 5/31/2012 6/14/2012 7/19/2012 8/23/2012 9/26/2012 10/26/2012 12/19/2012 12/21/2013 3/21/2013 3/21/2013 3/21/2013 12/10/2013 2/17/2014 4/20/2014 8/21/2014 1/11/2014 1/21/2015 6/15/2015	991.50 991.50 991.50 991.50 991.50 991.50 991.50 991.50 991.50 991.50 991.50 991.50 991.50 991.50 991.50 991.50 991.50 991.50 991.50 991.50 991.50 991.50 991.50	13.71 13.96 14.08 14.08 14.20 13.64 14.03 13.59 13.38 13.81 13.71 13.13 13.88 14.09 13.79 13.84 14.09 14.26 13.83 7.39 9.62 11.70 12.71 13.33 10.94 12.06 12.22 13.30 10.92	977.54 977.42 977.30 977.86 977.47 977.91 978.12 977.69 977.79 978.37 977.62 977.41 977.66 977.41 977.76 977.41 977.67 984.11 981.88 978.99 978.17 980.56 979.44 979.28 979.28 978.20 980.58	DPE-1,2,3,4 DPE-1,2,3,4 DPE-1,2,3,4 DPE-1,2,3,4 DPE-1,2,3,4 DPE-1,2,3,4 DPE-1,2,3,4 DPE-1,2,3,4 DPE-1,2,3,4 DPE-3 DPE-3 DPE-3 DPE-3 DPE-3 DPE-3 DPE-3; Before restarting the system DPE-1,2,3,4 System Off
MW-20	1/27/2012 2/16/2012 3/16/2012 3/27/2012 3/27/2012 5/17/2012 5/31/2012 6/14/2012 7/19/2012 8/23/2012 9/26/2012 10/26/2012 12/19/2012 12/21/2012 1/30/2013 2/26/2013 8/26/2013 8/26/2013 12/10/2014 4/20/2014 4/20/2014 4/21/2014 11/19/2014 2/25/2015	991.50 991.50 991.50 991.50 991.50 991.50 991.50 991.50 991.50 991.50 991.50 991.50 991.50 991.50 991.50 991.50 991.50 991.50 991.50 991.50 991.50 991.50 991.50 991.50	13.71 13.96 14.08 14.20 13.64 14.03 13.59 13.38 13.81 13.71 13.13 13.88 14.09 13.79 13.84 14.09 14.26 13.83 7.39 9.62 11.70 12.71 13.33 10.94 12.06 12.22 13.30	977.54 977.42 977.30 977.86 977.47 977.91 978.12 977.69 977.79 978.37 977.62 977.41 977.66 977.41 977.66 977.41 977.67 984.11 981.88 979.80 978.79 978.79 978.79 978.79	DPE-1,2,3,4 DPE-1,2,3,4 DPE-1,2,3,4 DPE-1,2,3,4 DPE-1,2,3,4 DPE-1,2,3,4 DPE-1,2,3,4 DPE-1,2,3,4 DPE-1,2,3,4 DPE-3 DPE-3 DPE-3 DPE-3 DPE-3 DPE-3 DPE-3; Before restarting the system DPE-1,2,3,4 System Off
MW-20	1/27/2012 2/16/2012 3/16/2012 3/27/2012 5/17/2012 5/17/2012 5/31/2012 6/14/2012 7/19/2012 9/26/2012 10/26/2012 12/19/2012 12/21/2012 13/2013 5/23/2013 6/26/2013 3/21/2013 5/23/2013 6/26/2013 12/10/2014 4/20/2014 8/21/2014 11/19/2014 2/25/2015 6/15/2015 6/15/2015 10/12/2015	991.50 991.50 991.50 991.50 991.50 991.50 991.50 991.50 991.50 991.50 991.50 991.50 991.50 991.50 991.50 991.50 991.50 991.50 991.50 991.50 991.50 991.50 991.50	13.71 13.96 14.08 14.08 14.20 13.64 14.03 13.59 13.38 13.81 13.71 13.13 13.88 14.09 13.79 13.84 14.09 14.26 13.83 7.39 9.62 11.70 12.71 13.33 10.94 12.06 12.22 13.30 10.92 12.32	977.54 977.42 977.30 977.86 977.47 977.91 978.12 977.69 977.79 978.37 977.62 977.41 977.66 977.41 977.67 984.11 981.88 979.80 978.79 978.17 980.56 979.44 979.28 979.28	DPE-1,2,3,4 DPE-1,2,3,4 DPE-1,2,3,4 DPE-1,2,3,4 DPE-1,2,3,4 DPE-1,2,3,4 DPE-1,2,3,4 DPE-1,2,3,4 DPE-1,2,3,4 DPE-3 DPE-3 DPE-3 DPE-3 DPE-3 DPE-3; Before restarting the system DPE-1,2,3,4
MW-20	1/27/2012 2/16/2012 3/16/2012 3/27/2012 4/17/2012 5/31/2012 6/14/2012 5/17/2012 5/31/2012 6/14/2012 7/19/2012 10/26/2012 10/26/2012 12/19/2012 12/21/2012 1/30/2013 5/23/2013 6/26/2013 12/10/2013 12/10/2014 4/20/2014 8/21/2014 11/19/2014 2/25/2015 6/15/2015 8/17/2015 9/10/2015	991.50 991.50 991.50 991.50 991.50 991.50 991.50 991.50 991.50 991.50 991.50 991.50 991.50 991.50 991.50 991.50 991.50 991.50 991.50 991.50 991.50 991.50 991.50 991.50 991.50 991.50 991.50 991.50	13.71 13.96 14.08 14.08 14.20 13.64 14.03 13.59 13.38 13.81 13.71 13.13 13.88 14.09 13.79 13.84 14.09 13.79 13.84 14.09 14.26 13.83 7.39 9.62 11.70 12.71 13.33 10.94 12.06 12.22 13.30 10.92 12.32 11.75	977.54 977.42 977.42 977.30 977.86 977.47 977.91 978.12 977.69 977.79 978.37 977.62 977.41 977.66 977.41 977.67 984.11 981.88 979.80 978.79 978.79 978.79 978.79 978.79 978.79 978.79 979.80 979.80 979.99	DPE-1,2,3,4 DPE-1,2,3,4 DPE-1,2,3,4 DPE-1,2,3,4 DPE-1,2,3,4 DPE-1,2,3,4 DPE-1,2,3,4 DPE-1,2,3,4 DPE-3,3,4 DPE-3 DPE-3 DPE-3 DPE-3 DPE-3; Before restarting the system DPE-1,2,3,4 DPE-1,2,
MW-20	1/27/2012 2/16/2012 3/16/2012 3/27/2012 3/27/2012 5/17/2012 5/31/2012 6/14/2012 7/19/2012 8/23/2012 10/26/2012 12/19/2012 12/19/2012 12/21/2013 3/21/2013 3/21/2013 5/23/2013 6/26/2013 8/26/2013 12/10/2014 4/20/2014 4/20/2014 4/20/2014 4/20/2014 11/19/2015 6/15/2015 8/17/2015 9/10/2015 12/14/2015 12/14/2015 12/14/2015 12/14/2015	991.50 991.50 991.50 991.50 991.50 991.50 991.50 991.50 991.50 991.50 991.50 991.50 991.50 991.50 991.50 991.50 991.50 991.50 991.50 991.50 991.50 991.50 991.50 991.50 991.50 991.50 991.50 991.50 991.50 991.50 991.50 991.50	13.71 13.96 14.08 14.08 14.20 13.64 14.03 13.59 13.38 13.81 13.71 13.13 13.88 14.09 13.79 13.84 14.09 14.26 13.83 7.39 9.62 11.70 12.71 13.33 10.94 12.06 12.22 13.30 10.92 12.32 11.75 13.01 12.41 12.56	977.54 977.42 977.42 977.30 977.86 977.47 977.91 978.12 977.69 977.79 978.37 977.62 977.41 977.66 977.41 977.67 984.11 981.88 979.80 978.79 978.17 980.56 979.44 979.28 979.28 979.80 979.80 979.99 978.49 979.99 978.49	DPE-1,2,3,4 DPE-1,2,3,4 DPE-1,2,3,4 DPE-1,2,3,4 DPE-1,2,3,4 DPE-1,2,3,4 DPE-1,2,3,4 DPE-1,2,3,4 DPE-1,2,3,4 DPE-3 DPE-3 DPE-3 DPE-3 DPE-3; Before restarting the system DPE-3; After restarting the system DPE-1,2,3,4 DPE-1,2,3,4 DPE-1,2,3,4 DPE-1,2,3,4 DPE-1,2,3,4 DPE-1,2,3,4 DPE-1,2,3,4 DPE-1,2,3,4 DPE-1,2,3,5 DPE-1,2,3,6 DPE-1,2,3,6 DPE-1,2,3,6 DPE-1,2,3,7 DPE-1,2,3,9 DPE-1,2
MW-20	1/27/2012 2/16/2012 3/16/2012 3/16/2012 3/27/2012 4/17/2012 5/31/2012 6/14/2012 7/19/2012 8/23/2012 9/26/2012 10/26/2012 12/19/2012 12/21/2012 12/2013 3/21/2013 3/21/2013 3/21/2013 12/10/2013 12/10/2013 12/10/2013 12/10/2013 12/10/2013 12/10/2013 12/10/2013 12/10/2013 12/10/2013 12/10/2013 12/10/2013 12/10/2015 10/12/2015 10/12/2015 10/12/2015 10/12/2015 10/12/2016	991.50 991.50 991.50 991.50 991.50 991.50 991.50 991.50 991.50 991.50 991.50 991.50 991.50 991.50 991.50 991.50 991.50 991.50 991.50 991.50 991.50 991.50 991.50 991.50 991.50 991.50 991.50 991.50 991.50 991.50	13.71 13.96 14.08 14.08 14.20 13.64 14.03 13.59 13.38 13.81 13.71 13.13 13.88 14.09 13.79 13.84 14.09 14.26 13.83 7.39 9.62 11.70 12.71 13.33 10.94 12.06 12.22 13.30 10.92 12.32 11.75 13.01 12.41 12.56 12.55	977.54 977.42 977.30 977.86 977.47 977.91 978.12 977.69 977.79 978.37 977.62 977.41 977.71 977.66 977.41 977.24 977.67 984.11 981.88 979.80 978.79 978.17 980.56 979.44 979.28 979.80 979.99 978.94 979.99 978.94	DPE-1,2,3,4 DPE-1,2,3,4 DPE-1,2,3,4 DPE-1,2,3,4 DPE-1,2,3,4 DPE-1,2,3,4 DPE-1,2,3,4 DPE-1,2,3,4 DPE-1,2,3,4 DPE-3 DPE-3 DPE-3 DPE-3 DPE-3 DPE-3; Before restarting the system DPE-3; After restarting the system DPE-1,2,3,4 DPE-1,2,3,4 DPE-1,2,3,4 DPE-1,2,3,4 DPE-1,2,3,4 DPE-1,2,3,4 DPE-1,2,3,4 DPE-1,2,3,4 DPE-1,2,3,4 DPE-1,2,3,5 DPE-1,2,3,4 DPE-1,2,3,5 DPE-1,2,3,5 DPE-1,2,3,6 DPE-1,2,3,6 DPE-1,2,3,7 DPE-1,2,3,7 DPE-1,2,3,9 D
MW-20	1/27/2012 2/16/2012 3/16/2012 3/16/2012 4/17/2012 5/31/2012 5/31/2012 6/14/2012 5/31/2012 6/14/2012 1/19/2012 10/26/2012 12/19/2012 12/19/2012 12/21/2012 1/30/2013 3/21/2013 5/23/2013 6/26/2013 8/26/2013 8/26/2013 12/10/2014 4/20/2014 8/21/2014 11/19/2014 2/25/2015 8/17/2015 9/10/2015 10/12/2015 1/11/2016 4/20/2016	991.50 991.50 991.50 991.50 991.50 991.50 991.50 991.50 991.50 991.50 991.50 991.50 991.50 991.50 991.50 991.50 991.50 991.50 991.50 991.50 991.50 991.50 991.50 991.50 991.50 991.50 991.50 991.50	13.71 13.96 14.08 14.08 14.20 13.64 14.03 13.59 13.38 13.81 13.71 13.13 13.88 14.09 13.79 13.84 14.09 14.26 13.83 7.39 9.62 11.70 12.71 13.33 10.94 12.06 12.22 13.30 10.92 12.32 11.75 13.01 12.41 12.56 12.55 11.97	977.54 977.42 977.42 977.30 977.86 977.47 977.91 978.12 977.69 977.79 978.37 977.62 977.41 977.66 977.41 977.24 977.67 984.11 981.88 979.80 978.79 978.17 980.56 979.44 979.28 979.28 979.44 979.28 979.49 979.99 978.49 979.99 978.95 978.95 979.95	DPE-1,2,3,4 DPE-1,2,3,4 DPE-1,2,3,4 DPE-1,2,3,4 DPE-1,2,3,4 DPE-1,2,3,4 DPE-1,2,3,4 DPE-1,2,3,4 DPE-1,2,3,4 DPE-3 DPE-3 DPE-3 DPE-3 DPE-3 DPE-3; Before restarting the system DPE-3; After restarting the system DPE-1,2,3,4 DPE-1,2,3,4 DPE-1,2,3,4 DPE-1,2,3,4 DPE-1,2,3,4 DPE-1,2,3,4 DPE-1,2,3,4 DPE-1,2,3,4 DPE-1,2,3,4 DPE-1,2,3,5 DPE-1,2,3,4 D
MW-20	1/27/2012 2/16/2012 3/16/2012 3/16/2012 3/27/2012 4/17/2012 5/31/2012 6/14/2012 7/19/2012 8/23/2012 9/26/2012 10/26/2012 12/19/2012 12/21/2012 12/2013 3/21/2013 3/21/2013 3/21/2013 12/10/2013 12/10/2013 12/10/2013 12/10/2013 12/10/2013 12/10/2013 12/10/2013 12/10/2013 12/10/2013 12/10/2013 12/10/2013 12/10/2015 10/12/2015 10/12/2015 10/12/2015 10/12/2015 10/12/2016	991.50 991.50 991.50 991.50 991.50 991.50 991.50 991.50 991.50 991.50 991.50 991.50 991.50 991.50 991.50 991.50 991.50 991.50 991.50 991.50 991.50 991.50 991.50 991.50 991.50 991.50 991.50 991.50 991.50 991.50	13.71 13.96 14.08 14.08 14.20 13.64 14.03 13.59 13.38 13.81 13.71 13.13 13.88 14.09 13.79 13.84 14.09 14.26 13.83 7.39 9.62 11.70 12.71 13.33 10.94 12.06 12.22 13.30 10.92 12.32 11.75 13.01 12.41 12.56 12.55	977.54 977.42 977.30 977.86 977.47 977.91 978.12 977.69 977.79 978.37 977.62 977.41 977.71 977.66 977.41 977.24 977.67 984.11 981.88 979.80 978.79 978.17 980.56 979.44 979.28 979.80 979.99 978.94 979.99 978.94	DPE-1,2,3,4 DPE-1,2,3,4 DPE-1,2,3,4 DPE-1,2,3,4 DPE-1,2,3,4 DPE-1,2,3,4 DPE-1,2,3,4 DPE-1,2,3,4 DPE-1,2,3,4 DPE-3 DPE-3 DPE-3 DPE-3 DPE-3 DPE-3; Before restarting the system DPE-3; After restarting the system DPE-1,2,3,4 DPE-1,2,3,4 DPE-1,2,3,4 DPE-1,2,3,4 DPE-1,2,3,4 DPE-1,2,3,4 DPE-1,2,3,4 DPE-1,2,3,4 DPE-1,2,3,4 DPE-1,2,3,5 DPE-1,2,3,4 DPE-1,2,3,5 DPE-1,2,3,5 DPE-1,2,3,6 DPE-1,2,3,6 DPE-1,2,3,7 DPE-1,2,3,7 DPE-1,2,3,9 D

		Top of	Depth to			
Well	Date	Casing	Groundwater	Groundwater		
ID	Measured	Elevation ^{1,2}	(feet)	Elevation ³	System Status	
DPE-1	12/3/2008	991.46	13.66	977.80	pre-system installation	
DPE-1	6/8/2009	992.40	18.78	973.62	pre-system startup	
DPE-1 DPE-1	7/9/2009 7/9/2009	992.40 992.40	20.51 16.38	971.89 976.02	DPE system on DPE-1 DPE system temporarily off	
DPE-1	9/4/2009	992.40	NR	970.02	DPE system temporarily on DPE system on DPE-1	
DPE-1	9/4/2009	992.40	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		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 DPE-1	3/25/2010 4/16/2010	992.40 992.40	15.72 15.88	976.68 976.52	DPE System on all wells DPE System on all wells	
DPE-1	5/12/2010	992.40	16.48	975.92	DPE System on all wells	
DPE-1	6/17/2010	992.40	16.62	975.78	DPE System on all wells	
DPE-1	8/18/2010	992.40	16.80	975.60	DPE System on all wells	
DPE-1	9/27/2010	992.40	14.60	977.80	DPE System on all wells	
DPE-1	11/18/2010	992.40	14.99	977.41	DPE System not operating	
DPE-1	12/22/2010	992.40	15.72	976.68	DPE System restarted	
DPE-1	1/6/2011	992.40	14.04	978.36	DPE System on all wells	
DPE-1	1/20/2011	992.40	16.80	975.60	DPE System on all wells	
DPE-1	2/28/2011	992.40	15.33	977.07	DPE System on all wells	
DPE-1	3/7/2011	992.40	17.27	975.13	DPE System on all wells	
DPE-1	3/18/2011	992.40	17.80	974.60	DPE System on all wells	
DPE-1 DPE-1	3/23/2011 4/22/2011	992.40 992.40	15.92 16.61	976.48 975.79	DPE System on all wells DPE System on all wells	
DPE-1	5/19/2011	992.40	14.59	973.79	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 System on all wells. Appears to be	
DPE-1	8/28/2011	992.40	13.04	979.36	data outlier.	
DPE-1	9/29/2011	992.40	15.89	976.51	DPE-1,2,3,4	
DPE-1	10/18/2011	992.40	14.89	977.51	DPE-1,2,3,4	
DPE-1	10/27/2011	992.40	16.65	975.75	DPE-1,2,3,4	
DPE-1	11/21/2011	992.40	17.40	975.00	DPE-1,2,3,4	
DPE-1	1/20/2012	992.40	15.39	977.01	DPE-1,2,3,4	
DPE-1 DPE-1	1/27/2012 2/16/2012	992.40 992.40	17.19 18.28	975.21 974.12	DPE-1,2,3,4 DPE-1,2,3,4	
DPE-1	3/16/2012	992.40	19.30	974.12	DPE-1,2,3,4 DPE-1,2,3,4	
DPE-1	3/27/2012	992.40	17.95	974.45	DPE-1,2,3,4	
DPE-1	4/17/2012	992.40	16.67	975.73	DPE-1,2,3,4	
DPE-1	5/17/2012	992.40	16.93	975.47	DPE-1,2,3,4	
DPE-1	5/31/2012	992.40	15.79	976.61	DPE-1,2,3,4	
DPE-1	6/14/2012	992.40	17.05	975.35	DPE-1,2,3,4	
DPE-1	7/19/2012	992.40	17.54	974.86	DPE-3	
DPE-1	8/23/2012	992.40	16.68	975.72	DPE-3	
DPE-1	9/26/2012	992.40	16.41	975.99	DPE-3	
DPE-1	10/26/2012	992.40	16.75	975.65	DPE-3	
DPE-1	12/19/2012	992.40	15.84	976.56	DPE-3; Before restarting the system	
DPE-1 DPE-1	12/21/2012 1/30/2013	992.40 992.40	21.82 17.86	970.58 974.54	DPE-3; After restarting the system DPE-1,2,3,4	
DPE-1	2/26/2013	992.40	16.94	974.34	DPE-1,2,3,4 DPE-1,2,3,4	
DPE-1	3/21/2013	992.40	18.40	973.40	DPE-1,2,3,4 DPE-1,2,3,4	
DPE-1	5/23/2013	992.40	11.34	981.06	DPE-1,2,3,4	
DPE-1	6/26/2013	992.40	13.84	978.56	DPE-1,2,3,4	
DPE-1	8/26/2013	992.40	15.68	976.72	DPE-1,2,3,4	
DPE-1	12/10/2013	992.40	14.40	978.00	System Off	
DPE-1	2/17/2014	992.40	14.90	977.50	System Off	
DPE-1	4/20/2014	992.40	13.54	978.86	System Off	
DPE-1	8/21/2014	992.40	15.80	976.60	System Off	
DPE-1	11/19/2014	992.40	14.06	978.34	System Off	
DPE-1	2/25/2015	992.40	14.84	977.56	System Off	
DPE-1 DPE-1	6/15/2015 8/17/2015	992.40 992.40	15.58 17.06	976.82 975.34	System Off System Off	
DPE-1 DPE-1	9/10/2015	992.40	16.83	975.34	System Off System Off	
	10/12/2015	992.40	16.83	975.57	System Off System Off	
DDF_1		992.40	14.55	976.10		
DPE-1 DPE-1	[2/14//0115		17.00	711.00	DPE System on all wells	
DPE-1 DPE-1 DPE-1	12/14/2015 1/11/2016	992.40	15.79	976.61	DPE System on all wells	
DPE-1	1/11/2016 2/23/2016		15.79 13.98	976.61 978.42	DPE System on all wells DPE System on all wells	
DPE-1 DPE-1	1/11/2016	992.40				

XX7 11	ъ.	Top of	Depth to				
Well	Date	Casing Elevation ^{1,2}	Groundwater	Groundwater			
ID	Measured		(feet)	Elevation ³	System Status		
DPE-2	12/3/2008	991.46	13.60	977.86	pre-system installation		
DPE-2	6/8/2009	992.80	17.45	975.35	pre-system startup		
DPE-2 DPE-2	7/9/2009 7/9/2009	992.80 992.80	17.61 16.83	975.19 975.97	DPE system on DPE-1 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	17.16	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 serection 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	992.80 992.80	17.58	975.22	DPE System on all wells		
DPE-2 DPE-2	9/27/2010 11/18/2010	992.80	14.92	977.88 978.01	DPE System on all wells DPE System not operating		
DPE-2 DPE-2	12/22/2010	992.80	14.79 15.72	978.01	DPE System not operating DPE System restarted		
DPE-2	1/6/2011	992.80	14.42	978.38	DPE System restarted 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 DPE-2	9/29/2011 10/18/2011	992.80 992.80	15.78 14.78	977.02 978.02	DPE-1,2,3,4 DPE-1,2,3,4		
DPE-2	10/18/2011	992.80	15.94	976.02	DPE-1,2,3,4 DPE-1,2,3,4		
DPE-2	11/21/2011	992.80	16.49	976.31	DPE-1,2,3,4		
DPE-2	1/20/2012	992.80	15.94	976.86	DPE-1,2,3,4		
DPE-2	1/27/2012	992.80	16.98	975.82	DPE-1,2,3,4		
DPE-2	2/16/2012	992.80	17.06	975.74	DPE-1,2,3,4		
DPE-2	3/16/2012	992.80	17.04	975.76	DPE-1,2,3,4		
DPE-2	3/27/2012	992.80	16.29	976.51	DPE-1,2,3,4		
DPE-2	4/17/2012	992.80	16.76	976.04	DPE-1,2,3,4		
DPE-2	5/17/2012	992.80	16.63	976.17	DPE-1,2,3,4		
DPE-2	5/31/2012	992.80	16.34	976.46	DPE-1,2,3,4		
DPE-2	6/14/2012	992.80	17.10	975.70	DPE-1,2,3,4		
DPE-2	7/19/2012	992.80	17.79	975.01	DPE-3		
DPE-2	8/23/2012	992.80 992.80	16.90 16.99	975.90 975.81	DPE-3 DPE-3		
DPE-2 DPE-2	9/26/2012 10/26/2012	992.80	17.01	975.79	DPE-3		
DPE-2	12/19/2012	992.80	16.13	975.79	DPE-3; Before restarting the system		
DPE-2	12/21/2012	992.80	18.80	974.00	DPE-3; After restarting the system		
DPE-2	1/30/2013	992.80	17.41	975.39	DPE-1,2,3,4		
DPE-2	2/26/2013	992.80	17.20	975.60	DPE-1,2,3,4		
DPE-2	3/21/2013	992.80	17.33	975.47	DPE-1,2,3,4		
DPE-2	5/23/2013	992.80	12.15	980.65	DPE-1,2,3,4		
DPE-2	6/26/2013	992.80	13.81	978.99	DPE-1,2,3,4		
DPE-2	8/26/2013	992.80	15.42	977.38	DPE-1,2,3,4		
DPE-2	12/10/2013	992.80	14.90	977.90	System Off		
DPE-2	2/17/2014	992.80	15.14	977.66	System Off		
DPE-2	4/20/2014	992.80	13.96	978.84	System Off		
DPE-2	8/21/2014	992.80 992.80	15.56	977.24 978.39	System Off		
DPE-2 DPE-2	11/19/2014 2/25/2015	992.80	14.41 15.24	978.39	System Off System Off		
DPE-2 DPE-2	6/15/2015	992.80	13.69	977.36	System Off System Off		
DPE-2	8/17/2015	992.80	15.19	979.11	System Off System Off		
DPE-2	9/10/2015	992.80	15.05	977.75	System Off		
DPE-2	10/12/2015	992.80	16.44	976.36	System Off		
DPE-2	12/14/2015	992.80	14.71	978.09	DPE System on all wells		
	1/11/2016	992.80	14.91	977.89	DPE System on all wells		
DPF-2							
DPE-2 DPE-2	2/23/2016	992.80	14.29	978.51	DPE System on all wells		
		992.80 992.80	14.29 14.34	978.51 978.46	DPE System on all wells DPE System on all wells		

GROUNDWATER ELEVATIONS MN Bio Business Center

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DPE-3 2/1//2014 992.48 13.41 977.07 System Off DPE-3 4/20/2014 992.48 14.00 978.48 System Off	
DPE-3 8/21/2014 992.48 15.33 977.15 System Off	
DPE-3 11/19/2014 992.48 14.58 977.90 System Off	
DPE-3 2/25/2015 992.48 15.41 977.07 System Off	
DPE-3 6/15/2015 992.48 13.76 978.72 System Off	
DPE-3 8/17/2015 992.48 15.17 977.31 System Off	
DPE-3 9/10/2015 992.48 NR Well taken apart/being fixed	
DPE-3 10/12/2015 992.48 16.23 976.25 System Off DPE-3 12/14/2015 992.48 14.89 977.59 DPE System on all wells	
DPE-3 12/14/2015 992.48 14.89 977.59 DPE System on all wells DPE-3 1/11/2016 992.48 15.29 977.19 DPE System on all wells	
DPE-3 1/11/2016 992.48 13.29 977.19 DPE System on all wells DPE-3 2/23/2016 992.48 14.40 978.08 DPE System on all wells	
DPE-3 4/20/2016 992.48 14.72 977.76 DPE System on all wells	
DPE-3 5/17/2016 992.48 14.01 978.47 DPE System on all wells	

XX7.11	Dete	Top of	Depth to	C1			
Well	Date	Casing Elevation ^{1,2}	Groundwater	Groundwater Elevation ³			
ID DEED	Measured		(feet)		System Status		
DPE-4 DPE-4	12/3/2008 6/8/2009	991.39 992.40	14.20 15.30	977.19 977.10	pre-system installation pre-system startup		
DPE-4	7/9/2009	992.40	16.95	977.10	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 DPE-4	3/25/2010 4/16/2010	992.40 992.40	16.22 16.21	976.18 976.19	DPE System on all wells DPE System on all wells		
DPE-4	5/12/2010	992.40	16.86	975.54	DPE System on all wells		
DPE-4	6/17/2010	992.40	16.83	975.57	DPE System on all wells		
DPE-4	8/18/2010	992.40	16.74	975.66	DPE System on all wells		
DPE-4	9/27/2010	992.40	14.74	977.66	DPE System on all wells		
DPE-4	11/18/2010	992.40	14.93	977.47	DPE System not operating		
DPE-4	12/22/2010	992.40	14.89	977.51	DPE System restarted		
DPE-4	1/6/2011	992.40	14.61	977.79	DPE System on all wells		
DPE-4	1/20/2011	992.40	15.15	977.25	DPE System on all wells		
DPE-4	2/28/2011	992.40	15.30	977.10	DPE System on all wells		
DPE-4	3/7/2011	992.40	15.62	976.78	DPE System on all wells		
DPE-4	3/18/2011	992.40	15.62	976.78	DPE System on all wells		
DPE-4	3/23/2011	992.40	14.04	978.36	DPE System on all wells		
DPE-4	4/22/2011	992.40	14.64	977.76	DPE System on all wells DPE System on all wells		
DPE-4 DPE-4	5/19/2011 6/16/2011	992.40 992.40	15.80 15.02	976.60 977.38	DPE System on all wells DPE System on all wells		
DPE-4	7/25/2011	992.40	14.49	977.91	DPE System on all wells		
DPE-4	8/28/2011	992.40	16.58	975.82	DPE System on all wells		
DPE-4	9/29/2011	992.40	16.42	975.98	DPE-1,2,3,4		
DPE-4	10/18/2011	992.40	14.98	977.42	DPE-1,2,3,4		
DPE-4	10/27/2011	992.40	16.64	975.76	DPE-1,2,3,4		
DPE-4	11/21/2011	992.40	17.11	975.29	DPE-1,2,3,4		
DPE-4	1/20/2012	992.40	16.08	976.32	DPE-1,2,3,4		
DPE-4	1/27/2012	992.40	17.49	974.91	DPE-1,2,3,4		
DPE-4	2/16/2012	992.40	17.76	974.64	DPE-1,2,3,4		
DPE-4	3/16/2012	992.40	17.70	974.70	DPE-1,2,3,4		
DPE-4	3/27/2012	992.40	16.29	976.11	DPE-1,2,3,4		
DPE-4	4/17/2012	992.40	17.61	974.79	DPE-1,2,3,4		
DPE-4 DPE-4	5/17/2012 5/31/2012	992.40 992.40	18.44 17.71	973.96 974.69	DPE-1,2,3,4		
DPE-4	6/14/2012	992.40	18.41	974.09	DPE-1,2,3,4 DPE-1,2,3,4		
DPE-4	7/19/2012	992.40	18.08	974.32	DPE-3		
DPE-4	8/23/2012	992.40	17.12	975.28	DPE-3		
DPE-4	9/26/2012	992.40	17.14	975.26	DPE-3		
DPE-4	10/26/2012	992.40	17.24	975.16	DPE-3		
DPE-4	12/19/2012	992.40	16.38	976.02	DPE-3; Before restarting the system		
DPE-4	12/21/2012	992.40	17.54	974.86	DPE-3; After restarting the system		
DPE-4	1/30/2013	992.40	17.73	974.67	DPE-1,2,3,4		
DPE-4	2/26/2013	992.40	17.69	974.71	DPE-1,2,3,4		
DPE-4	3/21/2013	992.40	17.76	974.64	DPE-1,2,3,4		
DPE-4	5/23/2013	992.40	12.22	980.18	DPE-1,2,3,4		
DPE-4	6/26/2013	992.40	14.46	977.94	DPE-1,2,3,4		
DPE-4	8/26/2013	992.40	15.59	976.81	DPE-1,2,3,4		
DPE-4 DPE-4	12/10/2013 2/17/2014	992.40 992.40	15.07 15.46	977.33 976.94	System Off System Off		
DPE-4 DPE-4	4/20/2014	992.40	15.46	976.94	System Off System Off		
DPE-4	8/21/2014	992.40	15.44	976.16	System Off		
DPE-4	11/19/2014	992.40	14.64	970.90	System Off		
DPE-4	2/25/2015	992.40	15.49	976.91	System Off		
DPE-4	6/15/2015	992.40	13.94	978.46	System Off		
DPE-4	8/17/2015	992.40	15.38	977.02	System Off		
DPE-4	9/10/2015	992.40	13.11	979.29	System Off		
DPE-4	10/12/2015	992.40	16.29	976.11	System Off		
DPE-4	12/14/2015	992.40	14.91	977.49	DPE System on all wells		
DPE-4	1/11/2016	992.40	15.17	977.23	DPE System on all wells		
DPE-4	2/23/2016	992.40	14.49	977.91	DPE System on all wells		
DPE-4	4/20/2016	992.40	14.58	977.82	DPE System on all wells		
DPE-4	5/17/2016	992.40	14.23	978.17	DPE System on all wells		

XX7.11	Dete	Top of	Depth to	C1			
Well ID	Date Measured	Casing Elevation ^{1,2}	Groundwater (feet)	Groundwater Elevation ³	System Status		
DPE-5	12/3/2008	991.47	12.44	979.03	pre-system installation		
DPE-5	6/8/2009	992.46	14.48	977.98	pre-system installation		
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 DPE-5	9/4/2009 9/4/2009	992.46 992.46	15.04 15.03	977.42 977.43	DPE-1 on after replacing inlet screen 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	077.46	DPE System on all wells		
DPE-5 DPE-5	1/14/2010 2/22/2010	992.46 992.46	15.00 15.01	977.46 977.45	DPE System on all wells 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 DPE-5	8/18/2010 9/27/2010	992.46 992.46	16.55 13.73	975.91 978.73	DPE System on all wells DPE System on all wells		
DPE-5	11/18/2010	992.46	14.19	978.73	DPE System on an wens 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 DPE-5	2/28/2011 3/7/2011	992.46 992.46	15.38 16.81	977.08 975.65	DPE System on all wells DPE System on all wells		
DPE-5	3/18/2011	992.46	15.03	973.63	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 DPE-5	7/25/2011 8/28/2011	992.46 992.46	13.59 16.28	978.87 976.18	DPE System on all wells DPE System on all wells		
DPE-5	9/29/2011	992.46	15.35	977.11	DPE-1,2,3,4		
DPE-5	10/18/2011	992.46	14.24	978.22	DPE-1,2,3,4		
DPE-5	10/27/2011	992.46	16.46	976.00	DPE-1,2,3,4		
DPE-5	11/21/2011	992.46	17.18	975.28	DPE-1,2,3,4		
DPE-5 DPE-5	1/20/2012 1/27/2012	992.46 992.46	15.39 16.44	977.07 976.02	DPE-1,2,3,4 DPE-1,2,3,4		
DPE-5	2/16/2012	992.46	17.42	975.04	DPE-1,2,3,4 DPE-1,2,3,4		
DPE-5	3/16/2012	992.46	17.41	975.05	DPE-1,2,3,4		
DPE-5	3/27/2012	992.46	15.62	976.84	DPE-1,2,3,4		
DPE-5	4/17/2012	992.46	17.08	975.38	DPE-1,2,3,4		
DPE-5 DPE-5	5/17/2012 5/31/2012	992.46 992.46	16.65 15.58	975.81 976.88	DPE-1,2,3,4 DPE-1,2,3,4		
DPE-5	6/14/2012	992.46	16.95	975.51	DPE-1,2,3,4		
DPE-5	7/19/2012	992.46	17.22	975.24	DPE-3		
DPE-5	8/23/2012	992.46	16.22	976.24	DPE-3		
DPE-5	9/26/2012	992.46	16.31	976.15	DPE-3		
DPE-5 DPE-5	10/26/2012	992.46 992.46	16.41 15.74	976.05 976.72	DPE-3; Before restarting the system		
DPE-5	12/19/2012 12/21/2012	992.46	17.58	976.72	DPE-3; After restarting the system		
DPE-5	1/30/2013	992.46	17.21	975.25	DPE-1,2,3,4		
DPE-5	2/26/2013	992.46	16.81	975.65	DPE-1,2,3,4		
DPE-5	3/21/2013	992.46	17.48	974.98	DPE-1,2,3,4		
DPE-5 DPE-5	5/23/2013 6/26/2013	992.46 992.46	11.18 14.90	981.28 977.56	DPE-1,2,3,4 DPE-1,2,3,4		
DPE-5	8/26/2013	992.46	14.90	977.56	DPE-1,2,3,4 DPE-1,2,3,4		
DPE-5	12/10/2013	992.46	14.41	978.05	System Off		
DPE-5	2/17/2014	992.46	14.99	977.47	System Off		
DPE-5	4/20/2014	992.46	13.61	978.85	System Off		
DPE-5 DPE-5	8/21/2014 11/19/2014	992.46 992.46	14.91 14.12	977.55 978.34	System Off System Off		
DPE-5	2/25/2015	992.46	14.12	978.34	System Off System Off		
DPE-5	6/15/2015	992.46	14.25	978.21	System Off		
DPE-5	8/17/2015	992.46	14.88	977.58	System Off		
DPE-5	9/10/2015	992.46	14.61	977.85	System Off		
DPE-5	10/12/2015	992.46	16.11	976.35	System Off DDE System on all wells		
DPE-5 DPE-5	12/14/2015 1/11/2016	992.46 992.46	14.49 16.11	977.97 976.35	DPE System on all wells DPE System on all wells		
DPE-5	2/23/2016	992.46	14.30	978.16	DPE System on all wells		
DPE-5	4/20/2016	992.46	15.76	976.70	DPE System on all wells		
DPE-5	5/17/2016	992.46	13.54	978.92	DPE System on all wells		
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GROUNDWATER ELEVATIONS MN Bio Business Center

XX - 11	Dete	Top of	Depth to	C1			
Well	Date	Casing Elevation ^{1,2}	Groundwater (feet)	Groundwater Elevation ³			
ID .		1/10usureu			System Status		
DPE-6 DPE-6	12/3/2008 6/8/2009	991.44 992.40	12.93 16.19	978.51 976.21	pre-system installation pre-system startup		
DPE-6	7/9/2009	992.40	16.19	976.21	DPE system on DPE-1		
DPE-6	7/9/2009	992.40	15.92	975.80	DPE system on DPE-1 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	992.40 992.40	16.02 15.98	976.38	DPE System on all wells DPE System on all wells		
DPE-6 DPE-6	6/17/2010 8/18/2010	992.40	16.56	976.42 975.84	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	978.42	DPE System on an wens 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 DPE-6	7/25/2011 8/28/2011	992.40 992.40	14.64 15.38	977.76 977.02	DPE System on all wells		
DPE-6	9/29/2011	992.40	15.57	977.02	DPE System on all wells DPE-1,2,3,4		
DPE-6	10/18/2011	992.40	14.20	978.20	DPE-1,2,3,4		
DPE-6	10/27/2011	992.40	15.64	976.76	DPE-1,2,3,4		
DPE-6	11/21/2011	992.40	15.81	976.59	DPE-1,2,3,4		
DPE-6	1/20/2012	992.40	15.39	977.01	DPE-1,2,3,4		
DPE-6	1/27/2012	992.40	16.29	976.11	DPE-1,2,3,4		
DPE-6	2/16/2012	992.40	16.28	976.12	DPE-1,2,3,4		
DPE-6	3/16/2012	992.40	16.40	976.00	DPE-1,2,3,4		
DPE-6	3/27/2012	992.40	15.68	976.72	DPE-1,2,3,4		
DPE-6	4/17/2012	992.40	16.19	976.21	DPE-1,2,3,4		
DPE-6	5/17/2012	992.40	16.09	976.31	DPE-1,2,3,4		
DPE-6	5/31/2012	992.40	15.56	976.84	DPE-1,2,3,4		
DPE-6	6/14/2012	992.40	16.51	975.89	DPE-1,2,3,4		
DPE-6	7/19/2012	992.40 992.40	16.96	975.44	DPE-3		
DPE-6 DPE-6	8/23/2012 9/26/2012	992.40	16.51 16.36	975.89 976.04	DPE-3 DPE-3		
DPE-6	10/26/2012	992.40	16.42	975.98	DPE-3		
DPE-6	12/19/2012	992.40	15.66	976.74	DPE-3; Before restarting the system		
DPE-6	12/21/2012	992.40	16.00	976.40	DPE-3; After restarting the system		
DPE-6	1/30/2013	992.40	16.63	975.77	DPE-1,2,3,4		
DPE-6	2/26/2013	992.40	16.59	975.81	DPE-1,2,3,4		
DPE-6	3/21/2013	992.40	16.61	975.79	DPE-1,2,3,4		
DPE-6	5/23/2013	992.40	11.44	980.96	DPE-1,2,3,4		
DPE-6	6/26/2013	992.40	13.18	979.22	DPE-1,2,3,4		
DPE-6	8/26/2013	992.40	14.86	977.54	DPE-1,2,3,4		
DPE-6	12/10/2013	992.40	14.39	978.01	System Off		
DPE-6	2/17/2014	992.40	14.81	977.59	System Off		
DPE-6	4/20/2014 8/21/2014	992.40 992.40	13.59	978.81	System Off		
DPE-6 DPE-6	8/21/2014 11/19/2014	992.40	15.04 13.01	977.36 979.39	System Off System Off		
DPE-6	2/25/2015	992.40	14.87	979.59	System Off		
DPE-6	6/15/2015	992.40	13.45	977.33	System Off		
DPE-6	8/17/2015	992.40	14.75	977.65	System Off		
DPE-6	9/10/2015	992.40	14.57	977.83	System Off		
DPE-6	10/12/2015	992.40	15.21	977.19	System Off		
DPE-6	12/14/2015	992.40	14.35	978.05	DPE System on all wells		
DPE-6	1/11/2016	992.40	14.67	977.73	DPE System on all wells		
DPE-6	2/23/2016	992.40	14.09	978.31	DPE System on all wells		
	4/20/2016	992.40	13.93	978.47	DPE System on all wells		
DPE-6	1/20/2010						

GROUNDWATER ELEVATIONS MN Bio Business Center

		т с	D. d.		
Well	Date	Top of Casing	Depth to Groundwater	Groundwater	
ID	Measured	Elevation ^{1,2}	(feet)	Elevation ³	System Status
DPE-7	12/3/2008	991.47	12.96	978.51	pre-system installation
DPE-7	6/8/2009	993.48	16.78	976.70	pre-system startup
DPE-7	7/9/2009	993.48	17.76	975.72	DPE system on DPE-1
DPE-7	7/9/2009	993.48	17.16	976.32	DPE system temporarily off
DPE-7	9/4/2009	993.48	17.03	976.45	DPE system on DPE-1
DPE-7	9/4/2009	993.48	17.00	976.48	DPE-1 on after replacing inlet screen
DPE-7 DPE-7	9/4/2009 10/15/2009	993.48 993.48	17.18 16.80	976.30 976.68	DPE-1 on after replacing inlet filter DPE system on DPE-1
DPE-7	10/13/2009	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 DPE-7	4/16/2010 5/12/2010	993.48 993.48	16.71 17.41	976.77 976.07	DPE System on all wells 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 DPE-7	2/28/2011 3/7/2011	993.48 993.48	15.61 16.08	977.87 977.40	DPE System on all wells 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 1 2 2 4
DPE-7 DPE-7	9/29/2011 10/18/2011	993.48 993.48	17.35 16.25	976.13 977.23	DPE-1,2,3,4 DPE-1,2,3,4
DPE-7	10/18/2011	993.48	17.46	976.02	DPE-1,2,3,4 DPE-1,2,3,4
DPE-7	11/21/2011	993.48	17.14	976.34	DPE-1,2,3,4
DPE-7	1/20/2012	993.48	16.68	976.80	DPE-1,2,3,4
DPE-7	1/27/2012	993.48	17.64	975.84	DPE-1,2,3,4
DPE-7	2/16/2012	993.48	17.69	975.79	DPE-1,2,3,4
DPE-7	3/16/2012	993.48	17.71	975.77	DPE-1,2,3,4
DPE-7 DPE-7	3/27/2012 4/17/2012	993.48 993.48	17.08 17.41	976.40 976.07	DPE-1,2,3,4
DPE-7	5/17/2012	993.48	17.41	975.86	DPE-1,2,3,4 DPE-1,2,3,4
DPE-7	5/31/2012	993.48	17.11	976.37	DPE-1,2,3,4
DPE-7	6/14/2012	993.48	17.83	975.65	DPE-1,2,3,4
DPE-7	7/19/2012	993.48	18.41	975.07	DPE-3
DPE-7	8/23/2012	993.48	18.21	975.27	DPE-3
DPE-7	9/26/2012	993.48	17.81	975.67	DPE-3
DPE-7	10/26/2012	993.48 993.48	17.88	975.60	DPE-3: Pafore rectarting the evetern
DPE-7 DPE-7	12/19/2012 12/21/2012	993.48	17.02 17.59	976.46 975.89	DPE-3; Before restarting the system DPE-3; After restarting the system
DPE-7	1/30/2013	993.48	17.86	975.62	DPE-1,2,3,4
DPE-7	2/26/2013	993.48	17.66	975.82	DPE-1,2,3,4
DPE-7	3/21/2013	993.48	18.03	975.45	DPE-1,2,3,4
DPE-7	5/23/2013	993.48	13.00	980.48	DPE-1,2,3,4
DPE-7	6/26/2013	993.48	14.40	979.08	DPE-1,2,3,4
DPE-7	8/26/2013 12/10/2013	993.48	16.04	977.44	DPE-1,2,3,4
DPE-7 DPE-7	2/17/2014	993.48 993.48	15.64 16.04	977.84 977.44	System Off System Off
DPE-7	4/20/2014	993.48	14.84	978.64	System Off
DPE-7	8/21/2014	993.48	15.71	977.77	System Off
DPE-7	11/19/2014	993.48	15.27	978.21	System Off
DPE-7	2/25/2015	993.48	16.11	977.37	System Off
DPE-7	6/15/2015	993.48	15.43	978.05	System Off
DPE-7	8/17/2015	993.48	16.05	977.43	System Off
DPE-7 DPE-7	9/10/2015 10/12/2015	993.48 993.48	15.79 NR	977.69	System Off Well was dry
DPE-7	12/14/2015	993.48	15.61	977.87	DPE System on all wells
DPE-7	1/11/2016	993.48	15.85	977.63	DPE System on all wells
DPE-7	2/23/2016	993.48	15.21	978.27	DPE System on all wells
DPE-7	4/20/2016	993.48	14.82	978.66	DPE System on all wells
DPE-7	5/17/2016	993.48	15.87	977.61	DPE System on all wells

GROUNDWATER ELEVATIONS MN Bio Business Center

	_	Top of	Depth to		
Well	Date	Casing	Groundwater	Groundwater	
ID	Measured	Elevation ^{1,2}	(feet)	Elevation ³	System Status
DPE-8	12/3/2008	991.48	12.56	978.92	pre-system installation
DPE-8	6/8/2009	992.84	14.50	978.34	pre-system startup
DPE-8 DPE-8	7/9/2009 7/9/2009	992.84 992.84	14.57 14.49	978.27 978.35	DPE system on DPE-1 DPE system temporarily off
DPE-8	9/4/2009	992.84	14.49	978.55	DPE system temporarily on 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 sereen
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	975.63 978.09	DPE System on all wells
DPE-8 DPE-8	9/27/2010 11/18/2010	992.84 992.84	14.75 15.37	978.09	DPE System on all wells 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 restarted 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 DPE-8	9/29/2011 10/18/2011	992.84 992.84	16.37 15.41	976.47 977.43	DPE-1,2,3,4
DPE-8	10/18/2011	992.84	16.82	976.02	DPE-1,2,3,4 DPE-1,2,3,4
DPE-8	11/21/2011	992.84	17.11	975.73	DPE-1,2,3,4
DPE-8	1/20/2012	992.84	16.74	976.10	DPE-1,2,3,4
DPE-8	1/27/2012	992.84	17.43	975.41	DPE-1,2,3,4
DPE-8	2/16/2012	992.84	DRY		DPE-1,2,3,4
DPE-8	3/16/2012	992.84	17.50	975.34	DPE-1,2,3,4
DPE-8	3/27/2012	992.84	16.78	976.06	DPE-1,2,3,4
DPE-8	4/17/2012	992.84	17.49	975.35	DPE-1,2,3,4
DPE-8	5/17/2012	992.84	DRY		DPE-1,2,3,4
DPE-8	5/31/2012	992.84	16.99	975.85	DPE-1,2,3,4
DPE-8	6/14/2012	992.84	DRY		DPE-1,2,3,4
DPE-8	7/19/2012	992.84	DRY		DPE-3
DPE-8 DPE-8	8/23/2012	992.84 992.84	DRY DRY		DPE-3 DPE-3
DPE-8	9/26/2012 10/26/2012	992.84	DRY		DPE-3
DPE-8	12/19/2012	992.84	17.02	975.82	DPE-3; Before restarting the system
DPE-8	12/21/2012	992.84	DRY	7.5.02	DPE-3; After restarting the system
DPE-8	1/30/2013	992.84	DRY		DPE-1,2,3,4
DPE-8	2/26/2013	992.84	DRY		DPE-1,2,3,4
DPE-8	3/21/2013	992.84	DRY		DPE-1,2,3,4
DPE-8	5/23/2013	992.84	12.19	980.65	DPE-1,2,3,4
DPE-8	6/26/2013	992.84	14.00	978.84	DPE-1,2,3,4
DPE-8	8/26/2013	992.84	15.49	977.35	DPE-1,2,3,4
DPE-8	12/10/2013	992.84	15.62	977.22	System Off
DPE-8	2/17/2014	992.84	16.00	976.84	System Off
DPE-8	4/20/2014	992.84	14.46	978.38	System Off
DPE-8	8/21/2014	992.84 992.84	16.00 15.04	976.84 977.80	System Off System Off
DPE-8 DPE-8	11/19/2014 2/25/2015	992.84	15.04	977.80	System Off System Off
DPE-8	6/15/2015	992.84	14.29	978.55	System Off
DPE-8	8/17/2015	992.84	15.74	978.33	System Off
DPE-8	9/10/2015	992.84	15.52	977.32	System Off
DPE-8	10/12/2015	992.84	16.45	976.39	System Off
DPE-8	12/14/2015	992.84	15.43	977.41	DPE System on all wells
DPE-8	1/11/2016	992.84	15.68	977.16	DPE System on all wells
		992.84	15.08	977.76	DPE System on all wells
DPE-8	2/23/2016	332.04	15.00	211.10	
DPE-8 DPE-8	4/20/2016	992.84	14.95	977.89	DPE System on all wells

GROUNDWATER ELEVATIONS MN Bio Business Center 221 First Avenue SW

Rochester, Minnesota

		Top of	Depth to		
Well					
ID	Measured	Elevation ^{1,2}	(feet)	Elevation ³	System Status
Elevator Draintile Sump	6/8/2009	989.58	7.00	982.58	pre-system startup
Elevator Draintile Sump	6/25/2009	990.20	6.34	983.86	pre-system startup
Elevator Draintile Sump	7/9/2009	990.20	6.38	983.82	DPE system on DPE-1
Elevator Draintile Sump	9/4/2009	990.20	6.29	983.91	DPE system on DPE-1
Elevator Draintile Sump	10/15/2009	990.20	6.18	984.02	DPE system on DPE-1
Elevator Draintile Sump	10/23/2009	990.20	6.08	984.12	DPE system off
Elevator Draintile Sump	11/16/2009	990.20 990.20	5.72	984.48	DPE System on all wells
Elevator Draintile Sump Elevator Draintile Sump	12/17/2009 1/14/2010	990.20	6.48 6.46	983.72 983.74	DPE System on all wells 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		DPE System on all wells
Elevator Draintile Sump	1/20/2011	990.20	6.84	983.36	DPE System on all wells
Elevator Draintile Sump	2/28/2011	990.20	7.03	983.17	DPE System on all wells
Elevator Draintile Sump	3/7/2011	990.20	6.91	983.29	DPE System on all walls
Elevator Draintile Sump	3/18/2011	990.20 990.20	6.97 6.76	983.23 983.44	DPE System on all walls
Elevator Draintile Sump Elevator Draintile Sump	3/23/2011 4/22/2011	990.20	6.52	983.44	DPE System on all wells DPE System on all wells
Elevator Draintile Sump	5/19/2011	990.20	6.27	983.93	DPE System on all wells
Elevator Draintile Sump	6/16/2011	990.20	6.52	983.68	DPE System on all wells
Elevator Draintile Sump	7/25/2011	990.20	5.58	984.62	DPE System on all wells
Elevator Draintile Sump	8/28/2011	990.20	6.56	983.64	DPE System on all wells
Elevator Draintile Sump	9/29/2011	990.20	6.97	983.23	DPE-1,2,3,4
Elevator Draintile Sump	10/18/2011	990.20	6.68	983.52	DPE-1,2,3,4
Elevator Draintile Sump	10/27/2011	990.20	7.01	983.19	DPE-1,2,3,4
Elevator Draintile Sump	11/21/2011	990.20	7.31	982.89	DPE-1,2,3,4
Elevator Draintile Sump	1/20/2012	990.20	7.33	982.87	DPE-1,2,3,4
Elevator Draintile Sump	1/27/2012	990.20	7.38	982.82	DPE-1,2,3,4
Elevator Draintile Sump	2/16/2012	990.20	7.44	982.76	DPE-1,2,3,4
Elevator Draintile Sump	3/16/2012	990.20	7.61	982.59	DPE-1,2,3,4
Elevator Draintile Sump	4/17/2012	990.20	7.97	982.23	DPE-1,2,3,4
Elevator Draintile Sump	5/17/2012 5/31/2012	990.20 990.20	DRY 6.99	983.21	DPE-1,2,3,4
Elevator Draintile Sump Elevator Draintile Sump	6/14/2012	990.20	7.11	983.21	DPE-1,2,3,4 DPE-1,2,3,4
Elevator Draintile Sump	7/19/2012	990.20	7.11	983.11	DPE-3
Elevator Draintile Sump	8/23/2012	990.20	6.88	983.32	DPE-3
Elevator Draintile Sump	9/26/2012	990.20	7.19	983.01	DPE-3
Elevator Draintile Sump	10/26/2012	990.20	7.41	982.79	DPE-3
Elevator Draintile Sump	12/19/2012	990.20	7.33	982.87	DPE-3; Before restarting the system
Elevator Draintile Sump	12/21/2012	990.20	7.36	982.84	DPE-3; After restarting the system
Elevator Draintile Sump	1/30/2013	990.20	7.48	982.72	DPE-1,2,3,4
Elevator Draintile Sump	2/26/2013	990.20	7.70	982.50	DPE-1,2,3,4
Elevator Draintile Sump	3/21/2013	990.20	7.18	983.02	DPE-1,2,3,4
Elevator Draintile Sump	5/23/2013	990.20	4.07	986.13	DPE-1,2,3,4
Elevator Draintile Sump	6/26/2013	990.20	5.54	984.66	DPE-1,2,3,4
Elevator Draintile Sump Elevator Draintile Sump	8/26/2013	990.20	6.66	983.54	DPE-1,2,3,4
Elevator Draintile Sump	12/10/2013 2/17/2014	990.20 990.20	6.89 6.94	983.31 983.26	System Off System Off
Elevator Draintile Sump	4/20/2014	990.20	5.92	984.28	System Off
Elevator Draintile Sump	8/21/2014	990.20	7.71	982.49	System Off
Elevator Draintile Sump	11/19/2014	990.20	6.58	983.62	System Off
Elevator Draintile Sump	2/25/2015	990.20	7.13	983.07	System Off
Elevator Draintile Sump	6/15/2015	990.20	NR		System Off
Elevator Draintile Sump	8/17/2015	990.20	NR		System Off
Elevator Draintile Sump	10/12/2015	990.20	6.68	983.52	System Off
Elevator Draintile Sump	1/11/2016	990.20	6.81	983.39	DPE System on all wells
Elevator Draintile Sump	2/23/2016	990.20	NR		DPE System on all wells
Elevator Draintile Sump	4/20/2016	990.20	NR		DPE System on all wells

Notes:

NR: Not Recorded

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

TABLE 2

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

MN Bio Business Center 221 First Avenue SW Rochester, Minnesota

								Depth to		
	Top of	Basement	Top of	Top of	Top of	Bottom of	Screen	Bottom of	Bottom of	
Monitoring	Casing	Floor	Seal	Filter Pack	Well Screen	Well Screen	Interval	Well	Well	Well
Well	Elevation ^{1,2}	Elevation	Elevation	Elevation	Elevation	Elevation	(feet)	(feet)	Elevation	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

1 of 1

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 3

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
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
Collected Date	12:52	13:50	14:22	11:45	9 15:25	10:57	10:13	11:20
Calcium, Dissolved	NA*	149,000	NA*	181,000	NA*	556,000	NA*	258,000
Dissolved Organic Carbon	<2000	4,800	2,000	2,800	3,700	6,900	<2000	2700
Iron, Dissolved	<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
Methane	<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
Sulfate	157,000	250,000	174,000	182,000	296,000	436,000	168,000	235,000
Sulfide	<5000	<5000	<5000	<5000	<5000	<5000	<5000	<5000

Sample ID	DPE-5	DPE-5	DPE-6	DPE-6	DPE-7	DPE-7	DPE-8	DPE-8
Collected Date	12/10/2008	09/24/2009	12/10/2008	09/24/2009	12/10/200	09/24/2009	12/10/2008	09/24/2009
Collected Date	16:45	04:00	14:29	04:30	8 13:15	05:00	09:30	05:30
Calcium, Dissolved	75,400	NA*	70,800	NA*	123,000	NA*	189,000	NA*
Dissolved Organic Carbon	4700	<2000	2500	<2000	3,300	<2000	4,000	3,000
Iron, Dissolved	< 50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0
Magnesium, Dissolved	86,200	NA*	17,700	NA*	23,400	NA*	36,800	NA*
Methane	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
Nitrate as N	5,500	5,500	3,000	1,500	7,900	1,900	9,800	4,300
Sulfate	468,000	281,000	159,000	67,600	275,000	85,600	262,000	149,000
Sulfide	<5000	<5000	<5000	<5000	<5000	<5000	<5000	<5000

Notes:

Bold: Parameter detected above laboratory reporting

limit

NA*: Not Analyzed

TABLE 3

NATURAL ATTENUATION ANALYTICAL RESULTS (ug/L)

MN Bio Business Center 221 First Avenue SW Rochester, Minnesota

Sample ID	MW14	MW-14	MW15	MW15	MW16	MW-16	MW17	MW-17
Collected Date	10/01/2009	12/03/2008	10/01/2009	12/10/2008	10/01/2009	12/03/2008	10/01/2009	12/03/2008
Collected Date	04:00	16:20	04:20	12:15	04:25	12:35	05:20	13:10
Calcium, Dissolved	NA*	114,000	NA*	67,700	NA*	194,000	NA*	76,300
Dissolved Organic Carbon	69,200	2,400	15,700	<2000	49,100	3,500	9,100	7,500
Iron, Dissolved	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	50.1
Magnesium, Dissolved	NA*	30,400	NA*	18,700	NA*	70,200	NA*	29,100
Methane	10.1	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
Nitrate as N	1,600	3,700	580	2,200	16,200	NA*	3,900	NA*
Sulfate	146,000	131,000	99,900	87,500	258,000	253,000	159,000	199,000
Sulfide	<5000	<5000	<5000	<5000	<5000	<5000	<5000	<5000

Sample ID	MW18	MW-18	MW-19	MW-19	MW20	MW20
Collected Date	10/01/2009	12/03/2008	09/24/2009	12/03/2008	10/01/2009	12/10/2008
Collected Date	05:46	14:26	11:40	16:59	06:00	10:30
Calcium, Dissolved	NA*	99,000	NA*	245,000	NA*	260,000
Dissolved Organic Carbon	5,400	8,500	<2000	3,100	20,300	2,700
Iron, Dissolved	88.3	4,190	<50.0	<50.0	<50.0	<50.0
Magnesium, Dissolved	NA*	52,600	NA*	71,100	NA*	65,900
Methane	<10.0	<10.0	10.7	<10.0	274	17.0
Nitrate as N	<400	NA*	16,800	NA*	8900	10,900
Sulfate	110,000	115,000	156,000	187,000	139,000	203,000
Sulfide	<5000	<5000	<5000	<5000	<5000	<5000

Notes:

Bold: Parameter detected above laboratory reporting

limit

NA*: Not Analyzed

GROUNDWATER FIELD DATA

Monitorino	Date	Тотт	Conductivity		Redox Potential	Dissolved	Head
Monitoring Well	Measured	Temp (Deg. C)	@ 25 deg. C (uS/cm)	pН	(Eh)	Oxygen	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	7.41	181	3.6	NR
MW-14	11/16/2009	19.22	1747	6.74	47.5	3.48	NR
MW-14	2/23/2010	18.51	1693	7.54	186	2.8	NR
MW-14	5/12/2010	18.65	1539	7.5	379	5.2	NR
MW-14	8/18/2010	19.16	1088	8.24	285	5.51	NR
MW-14	11/18/2010	19.54	1137	6.95	-42	3.49	NR
MW-14	3/1/2011	18.9	996	6.2	4.3	1.34	NR
MW-14	5/19/2011	19.38	984	7.61	-19.1	2.57	NR
MW-14	8/28/2011	19.5	1711	5.59	148	3.21	NR
MW-14	11/21/2011	19.7	1123	6.92	-14.2	3.99	NR
MW-14	2/15/2012	19.3	1174	7.44	-44.9	4.58	NR
MW-14	5/17/2012	9.9	1062	7.07	-17	1.9	NR
MW-14	9/26/2012	19.4	1043	7.53	-23	6.36	NR
MW-14	12/19/2012	19.8	1119	7.42	-36	1.33	NR
MW-14	2/25/2013	19.4	1324	7.17	-11.6	4.4	NR
MW-14	5/23/2013	19.2	701	7.92	-61	4.4	NR
MW-14	8/26/2013	19.41	1266	7.54	58.2	1.59	NR
MW-14	12/10/2013	20	1507	6.99	-25	4.08	NR
MW-14	2/17/2014	19.51	1596	7.74	-20.8	1.88	NR
MW-14	4/20/2014	19.34	1411	7.78	-36.6	1.95	NR
MW-14	8/21/2014	19.9	1009	6.92	-1	4.56	NR
MW-14	11/19/2014	19.8	1129	7.57	-30	2.83	NR
MW-14	2/25/2015	19.25 19.48	1328	7.7	-54 -80.1	1.6	NR
MW-14	6/15/2015	19.48	1118 1652	7.84 7.23	-80.1 147.4	2.49	NR NR
MW-14 MW-14	8/17/2015 12/14/2015	19.62	987	7.77	218.9	4.47	NR NR
MW-14	1/11/2016	19.76	1313	7.77	3.9	3.94	NR
MW-14	5/17/2016	19.31	1522	7.44	111.9	3.09	NR
101 00 - 1 - 4	3/17/2010	19.21	1322	7.44	111.9	3.07	IVIX
MW-15	12/3/2008	13.4	735	8.18	87	3.8	279
MW-15	10/1/2009	18.4	920	8.08	167	5.22	NR
MW-15	11/16/2009	19.6	1155	7.35	200	4.53	NR
MW-15	2/22/2010	19.5	1506	7.82	916	4.27	NR
MW-15	5/12/2010	18.56	1708	7.37	84.9	6.97	NR
MW-15	8/18/2010	21.3	1593	10.6	166	6.04	NR
MW-15	11/18/2010	19.7	1446	6.14	25.8	4.86	NR
MW-15	3/1/2011	19.6	936	7.41	16.3	2.19	NR
MW-15	5/19/2011	15.4	1314	8.08	-42	2.91	NR
MW-15	8/28/2011	19.9	2051	6.65	121	5.15	NR
MW-15	11/21/2011	18.5	14	7.38	-37	97.3	NR
MW-15	2/15/2012	18.4	841	7.61	-53	4.21	NR
MW-15	5/17/2012	9.9	1223	7.49	-20	1.9	NR
MW-15	9/26/2012	19.2	1295	7.67	-30	6.3	NR
MW-15	12/19/2012	20.4	1130	7.49	-40	1.97	NR
MW-15	2/25/2013	20.7	1416	7.4	-23	1.46	NR
MW-15	5/23/2013	20.1	5007	7.53	-41	3.36	NR
MW-15	8/26/2013	20.31	3002	7.48	33.4	2.39	NR
MW-15	12/10/2013	20.31	1322	7.47	-51	4.63	NR ND
MW-15	2/17/2014	20.14	967	7.95	-32.3	2.26	NR ND
MW-15 MW-15	4/20/2014 8/21/2014	19.83 20.2	2281 2451	7.74	-35.7 63.9	2.82	NR NR
MW-15	11/19/2014	20.2	1805	7.13	-33	3.03 2.04	NR
MW-15	2/25/2015	19.69	1560	7.72	-56	2.04	NR
MW-15	6/15/2015	20.17	2766	7.79	-45.5	3.7	NR
MW-15	8/18/2015	20.17	2465	7.79	241.3	3.5	NR
MW-15	12/14/2015	20.62	2249	7.39	235.4	3.27	NR
MW-15	1/11/2016	20.02	3590	7.46	101.8	3.65	NR
MW-15	5/17/2016	20.27	3226	7.05	149.9	3.69	NR
							- 1-1

GROUNDWATER FIELD DATA

			Conductivity		Redox		Head
Monitoring	Date	Temp	@ 25 deg. C	pH	Potential	Dissolved	Space
Well	Measured	(Deg. C)	(uS/cm)		(Eh)	Oxygen	(ppm)
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 MW-16	11/18/2010 3/1/2011	19.19 18.93	2935 1862	7.61 7.22	-71 -23	3.54 1.94	NR NR
MW-16 MW-16	5/19/2011	19.2	2476	7.76	-25	2.54	NR
MW-16	8/28/2011	19.2	3357	6.96	117	4.16	NR
MW-16	11/21/2011	19.7	2535	7.17	-26	3.35	NR
MW-16	2/15/2012	18.9	1492	7.68	-57	4.25	NR
MW-16	5/17/2012	9.9	1129	7.54	-24	1.9	NR
MW-16	9/26/2012	18.9	1126	7.4	-16	6.21	NR
MW-16	12/19/2012	19.6	2177	7.39	-10	3.61	NR
MW-16	2/25/2013	19.4	1338	7.48	-27	4.7	NR
MW-16	5/23/2013	19.1	2161	7.02	-19	1.92	NR
MW-16	8/26/2013	19.69	2058	7.29	-2.5	2.37	NR
MW-16	12/10/2013	19.88	2319	7.45	-50.7	6.12	NR
MW-16	2/17/2014	19.76	2391	7.71	-19.2	4.19	NR
MW-16	4/20/2014	19.24	9599	7.01	1.9	3.43	NR
MW-16	8/21/2014	19.89	3415	7.1	92.6	3.7	NR
MW-16	11/19/2014	20.3	3437	7.43	63	3.56	NR
MW-16	2/25/2015	19.5	2559	7.45	-41	2.57	NR
MW-16	6/15/2015	19.75	4532	7.62	-33.6	3.55	NR
MW-16	8/18/2015	19.94	3952	7.39	412.4	2.43	NR
MW-16	12/14/2015	19.89	4269	7.49	111.4	2.55	NR
MW-16	1/11/2016	19.7	2876	7.28	83.5	3.19	NR
MW-16	5/17/2016	19.58	3358	7.25	131.6	4.49	NR
MW-17	12/3/2008	14.8	735	8.99	-99	2.6	1.3
MW-17	10/1/2009	17.8	1428	8.6	175	1.99	NR
MW-17	11/16/2009	17.62	1761	7.34	29	1.62	NR
MW-17	2/22/2010	18.25	16.08	7.66	-163	2.02	NR
MW-17	5/12/2010	18.05	1707	7.21	-82	1.96	NR
MW-17	8/18/2010	18.29	1759	10.4	15	3.51	NR
MW-17	11/18/2010	18.47	2102	7.43	-62	2.23	NR
MW-17	3/1/2011	18.5	1425	7.21	-76	1.21	NR
MW-17	5/19/2011	18.6	1371	7.87	-31	0.77	NR
MW-17	8/28/2011	19.1	2206	6.96	-116	4.1	NR
MW-17	11/21/2011	19.81	1927	7.26	-31	0.83	NR
MW-17	2/15/2012	19.04	1349	7.45	-45	0.42	NR
MW-17	5/17/2012	9.9	1000	7.54	-39	1.09	NR
MW-17	9/26/2012	18.2	753	7.03	2.1	3.02	NR
MW-17	12/19/2012	19.5	727	7.48	-40	0.43	NR
MW-17	2/25/2013	19.2	1361	7.32	-19.3	1.6	NR
MW-17	5/23/2013	19.2	1396	7.92	-58	1.62	NR
MW-17	8/26/2013	19.29	1594	7.32	-51.2	1.02	NR ND
MW-17 MW-17	12/10/2013 2/17/2014	20.15 19.59	1480 1311	7.41	-48 -23.5	2.77 0.97	NR NR
MW-17 MW-17	4/20/2014	19.39	1861	7.79	-25.3	1.54	NR
MW-17	8/21/2014	19.40	640	7.5	22.3	1.28	NR
MW-17	11/19/2014	19.9	1436	7.76	6.9	1.62	NR
MW-17	2/25/2015	19.44	1509	7.56	-84.1	0.57	NR
MW-17	6/15/2015	19.8	1123	9.5	-450	0.33	NR
MW-17	8/18/2015	19.73	1813	8.37	226.1	0.8	NR
MW-17	12/14/2015	19.68	1952	8.65	-78.3	0.81	NR
MW-17	1/11/2016	19.59	1817	7.67	-89.3	0.73	NR
MW 17	5/17/2016	19.44	1539	10.39	-195.6	0.47	NR
MW-17	3/17/2010	17	100	10.07	1,0.0	0.17	

GROUNDWATER FIELD DATA

M :: :	Б.,	m	Conductivity	**	Redox	D: 1 1	Head
Monitoring Well	Date Measured	Temp (Deg. C)	@ 25 deg. C (uS/cm)	pН	Potential (Eh)	Dissolved Oxygen	Space (ppm)
				9.06		,,,	**
MW-18 MW-18	12/3/2008	14.9 17.8	735 1497	8.06 7.75	-137 176	3.1 1.47	1.2 NR
MW-18	10/1/2009 11/16/2009	16.46	2588	6.6	54.7	1.47	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	17.34	1845	6.94	-46	0.61	NR
MW-18	5/19/2011	17.5	1949	7.41	-8.5	0.91	NR
MW-18	8/28/2011	18.9	2149	6.71	2.7	1.1	NR
MW-18	11/21/2011	19.8	1840	7.31	-34	1.03	NR
MW-18	2/15/2012	18.76	1937	7.5	-86	0.71	NR
MW-18	5/17/2012	9.9	2361	6.68	-46	5.6	NR
MW-18	9/26/2012	19.3	1680	6.98	4.9	2.9	NR
MW-18	12/19/2012	19.5	1738	7.08	-18	0.6	NR
MW-18	2/25/2013	19.9	2076	7.11	-85	0.5	NR
MW-18	5/23/2013	19.6	2121	7.67	-16	1.06	NR
MW-18	8/26/2013	19.39	2441	7.03	-65.9	0.28	NR
MW-18	12/10/2013	18.59	2655	7.22	-36.5	1.52	NR
MW-18	2/17/2014	19.58	2669	7.41	-3.4	0.62	NR
MW-18	4/20/2014	19.36	2280	7.46	-21	0.3	NR
MW-18	8/21/2014	19.59	2341	7.47	-224	0.68	NR
MW-18	11/19/2014	19.8	2198	7.36	-190	0.4	NR
MW-18	2/25/2015	19.46	2507	7.19	-116.7	0.57	NR
MW-18	6/15/2015	19.57	2113	8.23	-450	0.75	NR
MW-18	8/18/2015	19.71	2105	7.92	-164.2	2.47	NR
MW-18	12/14/2015	19.78	1392	11.01	68.1	1.93	NR
MW-18	1/11/2016	19.64	2180	7.37	-83.8	2.08	NR
MW-18	5/17/2016	19.61	2114	10.47	-210.8	0.74	NR
MW-19	12/3/2008	13.7	735	7.20	219	2.2	0.13
MW-19	10/1/2009	15.6	3667	7.03	163	225	NR
MW-19	11/16/2009	15.96	3482	6.13	226	3.03	NR
MW-19	2/23/2010	15.81	4277	6.88	130	5.42	NR
MW-19	5/12/2010	6.4	8955	6.25	332.2	43.55	NR
MW-19	8/18/2010	17.28	3147	6.44	157	6.61	NR
MW-19	11/18/2010	16.99	4653	6.74	-25	3.71	NR
MW-19	3/1/2011	17.8	3992	6.77	30.8	2.81	NR
MW-19	5/19/2011	16.9	3750	7.05	14	2.61	NR
MW-19	8/28/2011	17.4	4618	6.59	47	4.7	NR
MW-19	11/21/2011	17.1	64	5.18	300	5.93	NR
MW-19	2/15/2012	17.33	3772	6.23	19.7	4.25	NR
MW-19	5/17/2012	9.9	4425	7.30	-3.4	7	NR
MW-19							3.775
	9/26/2012	18.14	4655	6.71	17.3	8.16	NR
MW-19	12/19/2012	17	4655 5054	6.71 6.71	17.3 -24	2.39	NR
MW-19 MW-19	12/19/2012 2/25/2013	17 17.9	4655 5054 6006	6.71 6.71 7.15	17.3 -24 -10.3	2.39 2.12	NR NR
MW-19 MW-19 MW-19	12/19/2012 2/25/2013 5/23/2013	17 17.9 17.2	4655 5054 6006 4673	6.71 6.71 7.15 6.63	17.3 -24 -10.3 -40	2.39 2.12 0.63	NR NR NR
MW-19 MW-19 MW-19 MW-19	12/19/2012 2/25/2013 5/23/2013 8/26/2013	17 17.9 17.2 17.54	4655 5054 6006 4673 5499	6.71 6.71 7.15 6.63 6.93	17.3 -24 -10.3 -40 77.8	2.39 2.12 0.63 2.46	NR NR NR NR
MW-19 MW-19 MW-19 MW-19 MW-19	12/19/2012 2/25/2013 5/23/2013 8/26/2013 12/10/2013	17 17.9 17.2 17.54 17.89	4655 5054 6006 4673 5499 5095	6.71 6.71 7.15 6.63 6.93 6.90	17.3 -24 -10.3 -40 77.8 79.8	2.39 2.12 0.63 2.46 5.89	NR NR NR NR
MW-19 MW-19 MW-19 MW-19 MW-19 MW-19	12/19/2012 2/25/2013 5/23/2013 8/26/2013 12/10/2013 2/17/2014	17 17.9 17.2 17.54 17.89 17.38	4655 5054 6006 4673 5499 5095 6328	6.71 6.71 7.15 6.63 6.93 6.90 7.17	17.3 -24 -10.3 -40 77.8 79.8 9.2	2.39 2.12 0.63 2.46 5.89 2.1	NR NR NR NR NR
MW-19 MW-19 MW-19 MW-19 MW-19 MW-19	12/19/2012 2/25/2013 5/23/2013 8/26/2013 12/10/2013 2/17/2014 4/20/2014	17 17.9 17.2 17.54 17.89 17.38 17.63	4655 5054 6006 4673 5499 5095 6328 5684	6.71 6.71 7.15 6.63 6.93 6.90 7.17 6.89	17.3 -24 -10.3 -40 77.8 79.8 9.2 7.9	2.39 2.12 0.63 2.46 5.89 2.1 2.53	NR NR NR NR NR NR NR
MW-19 MW-19 MW-19 MW-19 MW-19 MW-19 MW-19 MW-19	12/19/2012 2/25/2013 5/23/2013 8/26/2013 12/10/2013 2/17/2014 4/20/2014 8/21/2014	17 17.9 17.2 17.54 17.89 17.38 17.63	4655 5054 6006 4673 5499 5095 6328 5684 6939	6.71 6.71 7.15 6.63 6.93 6.90 7.17 6.89 6.44	17.3 -24 -10.3 -40 77.8 79.8 9.2 7.9 111.2	2.39 2.12 0.63 2.46 5.89 2.1 2.53 3.69	NR NR NR NR NR NR NR NR
MW-19 MW-19 MW-19 MW-19 MW-19 MW-19 MW-19 MW-19 MW-19	12/19/2012 2/25/2013 5/23/2013 8/26/2013 12/10/2013 2/17/2014 4/20/2014 8/21/2014 11/19/2014	17 17.9 17.2 17.54 17.89 17.38 17.63 17.6	4655 5054 6006 4673 5499 5095 6328 5684 6939 6174	6.71 6.71 7.15 6.63 6.93 6.90 7.17 6.89 6.44 6.97	17.3 -24 -10.3 -40 77.8 79.8 9.2 7.9 111.2 -4.5	2.39 2.12 0.63 2.46 5.89 2.1 2.53 3.69 2.95	NR NR NR NR NR NR NR NR NR
MW-19 MW-19 MW-19 MW-19 MW-19 MW-19 MW-19 MW-19 MW-19 MW-19	12/19/2012 2/25/2013 5/23/2013 8/26/2013 12/10/2013 2/17/2014 4/20/2014 8/21/2014 11/19/2014 2/25/2015	17 17.9 17.2 17.54 17.89 17.38 17.63 17.6 17.9	4655 5054 6006 4673 5499 5095 6328 5684 6939 6174 6298	6.71 6.71 7.15 6.63 6.93 6.90 7.17 6.89 6.44 6.97 6.87	17.3 -24 -10.3 -40 77.8 79.8 9.2 7.9 111.2 -4.5 74.5	2.39 2.12 0.63 2.46 5.89 2.1 2.53 3.69 2.95 2.41	NR
MW-19 MW-19 MW-19 MW-19 MW-19 MW-19 MW-19 MW-19 MW-19 MW-19	12/19/2012 2/25/2013 5/23/2013 8/26/2013 12/10/2013 2/17/2014 4/20/2014 4/20/2014 11/19/2014 2/25/2015 6/15/2015	17 17.9 17.2 17.54 17.89 17.38 17.63 17.6 17.9 17.62	4655 5054 6006 4673 5499 5095 6328 5684 6939 6174 6298 6233	6.71 6.71 7.15 6.63 6.93 6.90 7.17 6.89 6.44 6.97 6.87 6.94	17.3 -24 -10.3 -40 77.8 79.8 9.2 7.9 111.2 -4.5 74.5 -6.2	2.39 2.12 0.63 2.46 5.89 2.1 2.53 3.69 2.95 2.41 2.51	NR N
MW-19 MW-19 MW-19 MW-19 MW-19 MW-19 MW-19 MW-19 MW-19 MW-19 MW-19	12/19/2012 2/25/2013 5/23/2013 8/26/2013 12/10/2013 2/17/2014 4/20/2014 8/21/2014 11/19/2014 2/25/2015 6/15/2015 8/18/2015	17 17.9 17.2 17.54 17.89 17.38 17.63 17.6 17.9 17.62 17.49	4655 5054 6006 4673 5499 5095 6328 5684 6939 6174 6298 6233 7015	6.71 6.71 7.15 6.63 6.93 6.90 7.17 6.89 6.44 6.97 6.87 6.94	17.3 -24 -10.3 -40 77.8 79.8 9.2 111.2 -4.5 74.5 -6.2 204.3	2.39 2.12 0.63 2.46 5.89 2.1 2.53 3.69 2.95 2.41 2.51 2.45	NR N
MW-19 MW-19 MW-19 MW-19 MW-19 MW-19 MW-19 MW-19 MW-19 MW-19 MW-19 MW-19	12/19/2012 2/25/2013 5/23/2013 8/26/2013 12/10/2013 2/17/2014 4/20/2014 8/21/2014 11/19/2014 2/25/2015 6/15/2015 8/18/2015 12/14/2015	17 17.9 17.2 17.54 17.89 17.38 17.63 17.6 17.9 17.62 17.49 17.42 17.99	4655 5054 6006 4673 5499 5095 6328 5684 6939 6174 6298 6233 7015 7173	6.71 6.71 7.15 6.63 6.93 6.90 7.17 6.89 6.44 6.97 6.87 6.94 6.34	17.3 -24 -10.3 -40 -77.8 -79.8 -9.2 -7.9 111.2 -4.5 -6.2 204.3 -69.8	2.39 2.12 0.63 2.46 5.89 2.1 2.53 3.69 2.95 2.41 2.51 2.45 2.48	NR N
MW-19 MW-19 MW-19 MW-19 MW-19 MW-19 MW-19 MW-19 MW-19 MW-19 MW-19	12/19/2012 2/25/2013 5/23/2013 8/26/2013 12/10/2013 2/17/2014 4/20/2014 8/21/2014 11/19/2014 2/25/2015 6/15/2015 8/18/2015	17 17.9 17.2 17.54 17.89 17.38 17.63 17.6 17.9 17.62 17.49	4655 5054 6006 4673 5499 5095 6328 5684 6939 6174 6298 6233 7015	6.71 6.71 7.15 6.63 6.93 6.90 7.17 6.89 6.44 6.97 6.87 6.94	17.3 -24 -10.3 -40 77.8 79.8 9.2 111.2 -4.5 74.5 -6.2 204.3	2.39 2.12 0.63 2.46 5.89 2.1 2.53 3.69 2.95 2.41 2.51 2.45	NR N

GROUNDWATER FIELD DATA

			Conductivity		Redox		Head
Monitoring	Date	Temp	@ 25 deg. C	pН	Potential	Dissolved	Space
Well	Measured	(Deg. C)	(uS/cm)		(Eh)	Oxygen	(ppm)
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 MW-20	5/12/2010 8/18/2010	17.96 18.3	2410 4559	7.16 10.1	276 182	7.83 8	NR NR
MW-20	11/18/2010	18.39	4497	7.44	-62	3.88	NR
MW-20	3/1/2011	16.6	3505	6.42	9.6	2.43	NR
MW-20	5/19/2011	18.5	3788	7.27	7.2	2.17	NR
MW-20	8/28/2011	18.7	5102	7.12	82	6.24	NR
MW-20	11/21/2011	18.45	5491	5.19	253	1.89	NR
MW-20	2/15/2012	17.95	5192	6.99	-22	4.42	NR
MW-20	5/17/2012	9.9	726	7.02	-21	1.06	NR
MW-20	9/26/2012	18.4	4277	6.99	3.6	3.9	NR
MW-20	12/19/2012	18.4	4868	6.78	-3	0.33	NR
MW-20	2/25/2013	18.9	5812	7.04	-4.8	1.3	NR
MW-20	5/23/2013	19.35	6325	6.96	-12	2.83	NR
MW-20	8/26/2013	19.13	7554	6.88	63.6	4.04	NR
MW-20	12/10/2013	19.35	6735	7.93	-32	4.93	NR
MW-20	2/17/2014	18.72	6617	7.14	10.9	0.6	NR
MW-20	4/20/2014	19.24	9599	7.01	1.9	3.43	NR
MW-20	8/21/2014	19.5	93.61	6.68	252	4.26	NR
MW-20	11/19/2014	19.6	8514	7.15	-10	4.3	NR
MW-20	2/25/2015	18.98	6510	6.96	108.1	0.76	NR
MW-20	6/15/2015	19.76	9394	7.11	-13.6	5.6	NR
MW-20 MW-20	8/18/2015 12/14/2015	20.02 19.38	1006 1006	7.08 6.93	111.6 137.3	3.58 3.65	NR NR
MW-20	1/11/2016	19.38	9861	7.24	143.2	4.12	NR
MW-20	5/17/2016	19.23	1033	8.16	-22.7	6.35	NR
WI W -20	3/17/2010	19	1033	0.10	-22.1	0.55	IVIX
DPE-1	12/3/2008	14.5	735	8.02	-4.9	0.9	10.5
DPE-1	9/28/2009	18.1	2584	7.64	170	4.8	NR
DPE-1	11/16/2009	18.18	2595	7.52	173	4.98	NR
DPE-1	2/22/2010	17.9	1152	6.23	255.6	8.16	NR
DPE-1	5/13/2010	18.4	2428	6.41	248	8.05	NR
DPE-1	8/18/2010	19.3	2242	10.4	286	5.54	NR
DPE-1	12/23/2010	18.61	1982	5.96	-4.7	12.57	10.1
DPE-1	3/1/2011	18.2	990	7.6	14.2	4.02	6.4
DPE-1	5/19/2011	18.9	1677	8.42	-59	4.17	NR
DPE-1	8/28/2011	18.1	2162	7.01	3	4	NR
DPE-1	11/21/2011	18.4	16.21	7.69	-53	5.89	NR
DPE-1	2/16/2012	18.14	1381	7.08	-26	5.04	NR
DPE-1	5/17/2012	9.9	1023	7.83	-57	1.09	NR NB
DPE-1 DPE-1	9/26/2012 12/19/2012	19.1	1170	8.5 7.95	-74 -64	5.7	NR NR
DPE-1	2/26/2013	18.9 17.1	1205 1321	7.95	-64 -6	4.24 5.1	NR NR
DPE-1	5/23/2013	17.1	4945	7.69	-6 -49	3.63	NR NR
DPE-1	8/26/2013	19.2	1858	7.49	168	4.11	NR
DPE-1	12/10/2013	19.97	1176	7.49	-75.8	6.3	NR
DPE-1	2/17/2014	18.88	1910	8.3	-49.9	3.39	NR
DPE-1	4/20/2014	18.86	4150	7.89	-43.1	3.62	NR
DPE-1	8/21/2014	19.23	6093	7.69	138.2	4.41	NR
DPE-1	11/19/2014	19.02	4194	8.15	133	4.37	NR
DPE-1	2/25/2015	17.3	3570	7.83	-61	2.2	NR
DPE-1	6/15/2015	20.28	4422	7.91	-51.1	3.05	NR
DPE-1	8/17/2015	19.78	5025	7.83	162.8	3.05	NR
DPE-1	12/14/2015	19.56	4053	7.53	218.1	1.44	NR
DPE-1	1/11/2016	18.52	2309	7.54	292.7	3.56	NR
DPE-1	5/17/2016	18.63	2257	7.29	158.3	6.55	NR
			1			1	

GROUNDWATER FIELD DATA

Well Measured Deg. C) (uS/cm) (Eh) Oxygen Option Opti				Conductivity		Redox		Head
DPE-2 12/3/2008 14.4 735 7.83 109 1.9 20			•		pH			Space
DPE-2								(ppm)
DPE-2								2000
DPE-2 22/22/010 17.5 2751 7.75 283 4.57 N								NR
DPE-2 \$5/13/2010 18.1 2900 7.25 268 5.59 N								NR
DPE-2						1		NR
DPE-2 12/23/2010 17.6 962 7.09 442 11.6 2								NR
DPE-2 31/2011 18.6 1986 7.21 118 3.16 15								NR
DPE-2 S/19/2011 18.4 1972 8 -38 2.75 N								2.8
DPE-2								15.1 NR
DPE-2				L				NR NR
DPE-2 2/16/2012 18.6 1931 7.56 -51 2.37 N								NR
DPE-2 9/26/2012 18.9 2156 7.74 -61 4.37 N								NR
DPE-2						1		NR
DPE-2 12/19/2012 18.7 2440 7.7 5.51 5.03 N								NR
DPE-2 2/26/2013 16.4 1062 7.10 -62 4.2 N								NR
DPE-2 5/23/2013 18.8 5181 7.52 -40 4.87 N								NR
DPE-2								NR
DPE-2								NR
DPE-2								NR
DPE-2 8/21/2014 19.48 7389 7.76 138.2 4.13 N	DPE-2	2/17/2014	19.09	4705	8.13	-41.4	3.66	NR
DPE-2	DPE-2	4/20/2014	19.03	6497	7.72	-34.4	4.09	NR
DPE-2 2/25/2015 18.92 4769 7.53 -39 3.98 N	DPE-2	8/21/2014	19.48	7389	7.76	138.2	4.13	NR
DPE-2	DPE-2	11/19/2014	19.17	6329	8.1	-56	3.79	NR
DPE-2		2/25/2015						NR
DPE-2								NR
DPE-2 1/11/2016 18.22 3076 7.63 279.1 3.88 N DPE-2 5/17/2016 19.82 3689 7.22 141.3 4.61 N DPE-3 12/3/2008 13.4 735 7.96 127 2.5 16 DPE-3 9/28/2009 17.3 7799 7.95 158 7.05 N DPE-3 11/17/2009 17.43 4442 7.1 208 3.32 N DPE-3 2/22/2010 15.4 4707 7.9 310 7.59 N DPE-3 5/13/2010 17.1 4484 7.62 270 7.36 N DPE-3 8/18/2010 18.4 4992 10.5 277 6.31 N DPE-3 12/23/2010 16.2 5922 7.15 17 16.23 20 DPE-3 3/1/2011 18.8 6621 7.19 -0.6 2.01 22 DPE-3 5/19/2011								NR
DPE-2 5/17/2016 19.82 3689 7.22 141.3 4.61 N DPE-3 12/3/2008 13.4 735 7.96 127 2.5 16 DPE-3 19/28/2009 17.3 7799 7.95 158 7.05 N DPE-3 11/17/2009 17.43 4442 7.1 208 3.32 N DPE-3 2/22/2010 15.4 4707 7.9 310 7.59 N DPE-3 5/13/2010 17.1 4484 7.62 270 7.36 N DPE-3 8/18/2010 18.4 4992 10.5 277 6.31 N DPE-3 12/23/2010 16.2 5922 7.15 17 16.23 22 DPE-3 3/1/2011 18.8 6621 7.19 -0.6 2.01 22 DPE-3 5/19/2011 17.2 4847 8.12 -44 5.76 N DPE-3 8/28/2011 <								NR
DPE-3 12/3/2008 13.4 735 7.96 127 2.5 160								NR
DPE-3 9/28/2009 17.3 7799 7.95 158 7.05 N DPE-3 11/17/2009 17.43 4442 7.1 208 3.32 N DPE-3 2/22/2010 15.4 4707 7.9 310 7.59 N DPE-3 5/13/2010 17.1 4484 7.62 270 7.36 N DPE-3 8/18/2010 18.4 4992 10.5 277 6.31 N DPE-3 12/2/3/2010 16.2 5922 7.15 17 16.23 23 DPE-3 3/1/2011 18.8 6621 7.19 -0.6 2.01 23 DPE-3 5/19/2011 17.2 4847 8.12 -44 5.76 N DPE-3 8/28/2011 NR 5894 7.61 -41 5.3 N DPE-3 11/21/2011 17.6 3012 7.54 -45 2.7 N DPE-3 2/16/2012 17	DPE-2	5/17/2016	19.82	3689	7.22	141.3	4.61	NR
DPE-3 9/28/2009 17.3 7799 7.95 158 7.05 N DPE-3 11/17/2009 17.43 4442 7.1 208 3.32 N DPE-3 2/22/2010 15.4 4707 7.9 310 7.59 N DPE-3 5/13/2010 17.1 4484 7.62 270 7.36 N DPE-3 8/18/2010 18.4 4992 10.5 277 6.31 N DPE-3 12/2/3/2010 16.2 5922 7.15 17 16.23 23 DPE-3 3/1/2011 18.8 6621 7.19 -0.6 2.01 23 DPE-3 5/19/2011 17.2 4847 8.12 -44 5.76 N DPE-3 8/28/2011 NR 5894 7.61 -41 5.3 N DPE-3 11/21/2011 17.6 3012 7.54 -45 2.7 N DPE-3 2/16/2012 17	DDE 2	12/2/2009	12.4	725	7.06	127	2.5	1684
DPE-3 11/17/2009 17.43 4442 7.1 208 3.32 N DPE-3 2/22/2010 15.4 4707 7.9 310 7.59 N DPE-3 5/13/2010 17.1 4484 7.62 270 7.36 N DPE-3 8/18/2010 18.4 4992 10.5 277 6.31 N DPE-3 12/23/2010 16.2 5922 7.15 17 16.23 28 DPE-3 3/1/2011 18.8 6621 7.19 -0.6 2.01 22 DPE-3 3/1/2011 18.8 6621 7.19 -0.6 2.01 22 DPE-3 5/19/2011 17.2 4847 8.12 -44 5.76 N DPE-3 5/19/2011 17.2 4847 7.61 -41 5.3 N DPE-3 11/21/2011 17.6 3012 7.54 -45 2.7 N DPE-3 2/16/2012								NR
DPE-3 2/22/2010 15.4 4707 7.9 310 7.59 N DPE-3 5/13/2010 17.1 4484 7.62 270 7.36 N DPE-3 8/18/2010 18.4 4992 10.5 277 6.31 N DPE-3 12/23/2010 16.2 5922 7.15 17 16.23 28 DPE-3 3/1/2011 18.8 6621 7.19 -0.6 2.01 22 DPE-3 5/19/2011 17.2 4847 8.12 -44 5.76 N DPE-3 5/19/2011 17.2 4847 8.12 -44 5.76 N DPE-3 8/28/2011 NR 5894 7.61 -41 5.3 N DPE-3 11/21/2011 17.6 3012 7.54 -45 2.7 N DPE-3 2/16/2012 17.92 4634 7.07 -25 4.85 N DPE-3 5/17/2012 9.9								NR NR
DPE-3 5/13/2010 17.1 4484 7.62 270 7.36 N DPE-3 8/18/2010 18.4 4992 10.5 277 6.31 N DPE-3 12/23/2010 16.2 5922 7.15 17 16.23 28 DPE-3 3/1/2011 18.8 6621 7.19 -0.6 2.01 23 DPE-3 5/19/2011 17.2 4847 8.12 -44 5.76 N DPE-3 8/28/2011 NR 5894 7.61 -41 5.3 N DPE-3 11/21/2011 17.6 3012 7.54 -45 2.7 N DPE-3 2/16/2012 17.92 4634 7.07 -25 4.85 N DPE-3 5/17/2012 9.9 4383 7.45 -40 1.09 N DPE-3 9/26/2012 17 2777 8.3 -63 7.1 N DPE-3 12/19/2012 18.2 </td <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>NR</td>								NR
DPE-3 8/18/2010 18.4 4992 10.5 277 6.31 N DPE-3 12/23/2010 16.2 5922 7.15 17 16.23 28 DPE-3 3/1/2011 18.8 6621 7.19 -0.6 2.01 22 DPE-3 5/19/2011 17.2 4847 8.12 -44 5.76 N DPE-3 8/28/2011 NR 5894 7.61 -41 5.3 N DPE-3 11/21/2011 17.6 3012 7.54 -45 2.7 N DPE-3 2/16/2012 17.92 4634 7.07 -25 4.85 N DPE-3 5/17/2012 9.9 4383 7.45 -40 1.09 N DPE-3 9/26/2012 17 2777 8.3 -63 7.1 N DPE-3 12/19/2012 18.2 4487 7.14 -21 2.07 N DPE-3 12/26/2013 18.3<								NR
DPE-3 12/23/2010 16.2 5922 7.15 17 16.23 22 DPE-3 3/1/2011 18.8 6621 7.19 -0.6 2.01 22 DPE-3 5/19/2011 17.2 4847 8.12 -44 5.76 N DPE-3 8/28/2011 NR 5894 7.61 -41 5.3 N DPE-3 11/21/2011 17.6 3012 7.54 -45 2.7 N DPE-3 2/16/2012 17.92 4634 7.07 -25 4.85 N DPE-3 5/17/2012 9.9 4383 7.45 -40 1.09 N DPE-3 9/26/2012 17 2777 8.3 -63 7.1 N DPE-3 9/26/2012 18.2 4487 7.14 -21 2.07 N DPE-3 12/19/2012 18.2 4487 7.14 -21 2.07 N DPE-3 12/26/2013 18.3<						+		NR
DPE-3 3/1/2011 18.8 6621 7.19 -0.6 2.01 22 DPE-3 5/19/2011 17.2 4847 8.12 -44 5.76 N DPE-3 8/28/2011 NR 5894 7.61 -41 5.3 N DPE-3 11/21/2011 17.6 3012 7.54 -45 2.7 N DPE-3 2/16/2012 17.92 4634 7.07 -25 4.85 N DPE-3 5/17/2012 9.9 4383 7.45 -40 1.09 N DPE-3 9/26/2012 17 2777 8.3 -63 7.1 N DPE-3 12/19/2012 18.2 4487 7.14 -21 2.07 N DPE-3 12/26/2013 18.3 1114 7.11 -51 3.9 N DPE-3 5/23/2013 18.4 7742 7.02 -47 3.12 N DPE-3 12/10/2013 NR* <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>28.2</td>								28.2
DPE-3 5/19/2011 17.2 4847 8.12 -44 5.76 N DPE-3 8/28/2011 NR 5894 7.61 -41 5.3 N DPE-3 11/21/2011 17.6 3012 7.54 -45 2.7 N DPE-3 2/16/2012 17.92 4634 7.07 -25 4.85 N DPE-3 5/17/2012 9.9 4383 7.45 -40 1.09 N DPE-3 9/26/2012 17 2777 8.3 -63 7.1 N DPE-3 12/19/2012 18.2 4487 7.14 -21 2.07 N DPE-3 12/19/2012 18.2 4487 7.14 -21 2.07 N DPE-3 12/19/2012 18.2 4487 7.14 -21 2.07 N DPE-3 12/26/2013 18.3 1114 7.11 -51 3.9 N DPE-3 8/26/2013 19.39 </td <td></td> <td></td> <td></td> <td></td> <td></td> <td>1</td> <td></td> <td>23.5</td>						1		23.5
DPE-3 8/28/2011 NR 5894 7.61 -41 5.3 N DPE-3 11/21/2011 17.6 3012 7.54 -45 2.7 N DPE-3 2/16/2012 17.92 4634 7.07 -25 4.85 N DPE-3 5/17/2012 9.9 4383 7.45 -40 1.09 N DPE-3 9/26/2012 17 2777 8.3 -63 7.1 N DPE-3 12/19/2012 18.2 4487 7.14 -21 2.07 N DPE-3 12/19/2012 18.2 4487 7.14 -21 2.07 N DPE-3 12/19/2012 18.2 4487 7.14 -21 2.07 N DPE-3 12/26/2013 18.3 1114 7.11 -51 3.9 N DPE-3 8/26/2013 19.39 5878 6.98 156 3.47 N DPE-3 12/10/2013 NR* </td <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>NR</td>								NR
DPE-3 2/16/2012 17.92 4634 7.07 -25 4.85 N DPE-3 5/17/2012 9.9 4383 7.45 -40 1.09 N DPE-3 9/26/2012 17 2777 8.3 -63 7.1 N DPE-3 12/19/2012 18.2 4487 7.14 -21 2.07 N DPE-3 2/26/2013 18.3 1114 7.11 -51 3.9 N DPE-3 5/23/2013 18.4 7742 7.02 -47 3.12 N DPE-3 8/26/2013 19.39 5878 6.98 156 3.47 N DPE-3 12/10/2013 NR* NR* NR* NR* NR* NR* DPE-3 12/17/2014 18.58 6875 7.35 0 1.11 N DPE-3 4/20/2014 19.23 7780 7.07 -1.2 2.26 N DPE-3 8/21/2014 19.47						-41		NR
DPE-3 5/17/2012 9.9 4383 7.45 -40 1.09 N DPE-3 9/26/2012 17 2777 8.3 -63 7.1 N DPE-3 12/19/2012 18.2 4487 7.14 -21 2.07 N DPE-3 2/26/2013 18.3 1114 7.11 -51 3.9 N DPE-3 5/23/2013 18.4 7742 7.02 -47 3.12 N DPE-3 8/26/2013 19.39 5878 6.98 156 3.47 N DPE-3 12/10/2013 NR* NR* NR* NR* NR* NR* DPE-3 12/10/2014 18.58 6875 7.35 0 1.11 N DPE-3 4/20/2014 19.23 7780 7.07 -1.2 2.26 N DPE-3 8/21/2014 19.47 7917 7.14 103.7 2.97 N DPE-3 11/19/2014 19	DPE-3	11/21/2011	17.6	3012	7.54	-45	2.7	NR
DPE-3 9/26/2012 17 2777 8.3 -63 7.1 N DPE-3 12/19/2012 18.2 4487 7.14 -21 2.07 N DPE-3 2/26/2013 18.3 1114 7.11 -51 3.9 N DPE-3 5/23/2013 18.4 7742 7.02 -47 3.12 N DPE-3 8/26/2013 19.39 5878 6.98 156 3.47 N DPE-3 12/10/2013 NR* NR* NR* NR* NR* NR* DPE-3 12/10/2014 18.58 6875 7.35 0 1.11 N DPE-3 4/20/2014 19.23 7780 7.07 -1.2 2.26 N DPE-3 8/21/2014 19.47 7917 7.14 103.7 2.97 N DPE-3 11/19/2014 19.07 7193 7.48 -20 2.54 N DPE-3 2/25/2015			17.92	L			4.85	NR
DPE-3 12/19/2012 18.2 4487 7.14 -21 2.07 N DPE-3 2/26/2013 18.3 1114 7.11 -51 3.9 N DPE-3 5/23/2013 18.4 7742 7.02 -47 3.12 N DPE-3 8/26/2013 19.39 5878 6.98 156 3.47 N DPE-3 12/10/2013 NR* NR* NR* NR* NR* NR* NR* N NR* NR* N NR* NR* NR* N NR* NR* NR NR* NR NR* NR N								NR
DPE-3 2/26/2013 18.3 1114 7.11 -51 3.9 N DPE-3 5/23/2013 18.4 7742 7.02 -47 3.12 N DPE-3 8/26/2013 19.39 5878 6.98 156 3.47 N DPE-3 12/10/2013 NR* NR* NR* NR* NR* NR* NR* N DPE-3 2/17/2014 18.58 6875 7.35 0 1.11 N DPE-3 4/20/2014 19.23 7780 7.07 -1.2 2.26 N DPE-3 8/21/2014 19.47 7917 7.14 103.7 2.97 N DPE-3 11/19/2014 19.07 7193 7.48 -20 2.54 N DPE-3 2/25/2015 17.16 6630 7.27 -32 1.59 N DPE-3 6/15/2015 19.87 6953 7.43 -28.7 2.2 N DPE-3								NR
DPE-3 5/23/2013 18.4 7742 7.02 -47 3.12 N DPE-3 8/26/2013 19.39 5878 6.98 156 3.47 N DPE-3 12/10/2013 NR* NR* NR* NR* NR* NR* NR* NR* N NR* NR*<								NR
DPE-3 8/26/2013 19.39 5878 6.98 156 3.47 N DPE-3 12/10/2013 NR* NR* NR* NR* NR* NR* NR* NR* NR* NR NR* NR NR* NR* NR NR* NR* NR NR* NR NR* NR								NR
DPE-3 12/10/2013 NR* NP* NP* <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>NR</td></t<>								NR
DPE-3 2/17/2014 18.58 6875 7.35 0 1.11 N DPE-3 4/20/2014 19.23 7780 7.07 -1.2 2.26 N DPE-3 8/21/2014 19.47 7917 7.14 103.7 2.97 N DPE-3 11/19/2014 19.07 7193 7.48 -20 2.54 N DPE-3 2/25/2015 17.16 6630 7.27 -32 1.59 N DPE-3 6/15/2015 19.87 6953 7.43 -28.7 2.2 N DPE-3 8/17/2015 19.98 7990 7.29 119.2 1.52 N DPE-3 12/14/2015 19.31 8178 7.36 153.3 3.67 N								NR
DPE-3 4/20/2014 19.23 7780 7.07 -1.2 2.26 N DPE-3 8/21/2014 19.47 7917 7.14 103.7 2.97 N DPE-3 11/19/2014 19.07 7193 7.48 -20 2.54 N DPE-3 2/25/2015 17.16 6630 7.27 -32 1.59 N DPE-3 6/15/2015 19.87 6953 7.43 -28.7 2.2 N DPE-3 8/17/2015 19.98 7990 7.29 119.2 1.52 N DPE-3 12/14/2015 19.31 8178 7.36 153.3 3.67 N								NR ND
DPE-3 8/21/2014 19.47 7917 7.14 103.7 2.97 N DPE-3 11/19/2014 19.07 7193 7.48 -20 2.54 N DPE-3 2/25/2015 17.16 6630 7.27 -32 1.59 N DPE-3 6/15/2015 19.87 6953 7.43 -28.7 2.2 N DPE-3 8/17/2015 19.98 7990 7.29 119.2 1.52 N DPE-3 12/14/2015 19.31 8178 7.36 153.3 3.67 N								NR NR
DPE-3 11/19/2014 19.07 7193 7.48 -20 2.54 N DPE-3 2/25/2015 17.16 6630 7.27 -32 1.59 N DPE-3 6/15/2015 19.87 6953 7.43 -28.7 2.2 N DPE-3 8/17/2015 19.98 7990 7.29 119.2 1.52 N DPE-3 12/14/2015 19.31 8178 7.36 153.3 3.67 N								NR NR
DPE-3 2/25/2015 17.16 6630 7.27 -32 1.59 N DPE-3 6/15/2015 19.87 6953 7.43 -28.7 2.2 N DPE-3 8/17/2015 19.98 7990 7.29 119.2 1.52 N DPE-3 12/14/2015 19.31 8178 7.36 153.3 3.67 N								NR
DPE-3 6/15/2015 19.87 6953 7.43 -28.7 2.2 N DPE-3 8/17/2015 19.98 7990 7.29 119.2 1.52 N DPE-3 12/14/2015 19.31 8178 7.36 153.3 3.67 N						1		NR
DPE-3 8/17/2015 19.98 7990 7.29 119.2 1.52 N DPE-3 12/14/2015 19.31 8178 7.36 153.3 3.67 N								NR
DPE-3 12/14/2015 19.31 8178 7.36 153.3 3.67 N								NR
								NR
רבע ביים 1/11/2010 ביים בע	DPE-3	1/11/2016	18.07	7280	7.53	286.7	4.54	NR
								NR

GROUNDWATER FIELD DATA

			Conductivity		Redox		Head
Monitoring	Date	Temp	@ 25 deg. C	pН	Potential	Dissolved	Space
Well	Measured	(Deg. C)	(uS/cm)		(Eh)	Oxygen	(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 3362	7.11	198	7.64	NR
DPE-4 DPE-4	5/13/2010	17.6 18.3	3296	7.88 10.6	242 252	8.61 6.9	NR NR
DPE-4	8/18/2010 12/23/2010	17.1	3296	7.46	3.9	NR	23.1
DPE-4	3/1/2011	18.8	874	7.40	144	1.9	11.5
DPE-4	5/19/2011	18.8	2168	8.21	-49	4.37	NR
DPE-4	8/28/2011	18.6	3318	7.63	-48	5.4	NR
DPE-4	11/21/2011	17.8	2265	7.38	-42	2.09	NR
DPE-4	2/16/2012	18.2	2692	7.5	-47	4.18	NR
DPE-4	5/17/2012	19.2	2579	7.45	-18	6.33	NR
DPE-4	9/26/2012	18.5	1891	8.1	-56	5.9	NR
DPE-4	12/19/2012	19.6	3637	6.62	-158	2.76	NR
DPE-4	2/26/2013	18.4	951	7.62	-46	4.4	NR
DPE-4	5/23/2013	19	4272	6.34	-73	1.78	NR
DPE-4	8/26/2013	20.05	3719	7.01	135	3.12	NR
DPE-4	12/10/2013	19.93	4120	6.75	-11.5	3.86	NR
DPE-4	2/17/2014	19.79	4102	6.98	19.2	1.76	NR
DPE-4	4/20/2014	19.32	4794	6.52	26.8	1.21	NR
DPE-4	8/21/2014	19.77	5364	7.05	11.3	3.11	NR
DPE-4	11/19/2014	19.4	4684	7.35	-81	2.88	NR
DPE-4	2/25/2015	20.1	4562	6.89	-93	1.45	NR
DPE-4	6/15/2015	19.93	4474	7.06	-11.9	2.27	NR
DPE-4	8/17/2015	20.21	5609	7.23	65	1.74	NR
DPE-4	12/14/2015	19.88	5983	6.69	-64.3	2.14	NR
DPE-4 DPE-4	1/11/2016 5/17/2016	18.61	3878	7.65	268.1 200.1	5.28	NR
DPE-4	3/17/2016	19.43	3915	6.65	200.1	6.21	NR
DPE-5	12/3/2008	14.3	735	9.26	13	0.5	1.3
DPE-5	9/28/2009	17.06	2264	7.94	181	0.2	NR
DPE-5	11/17/2009	18.02	2921	7.58	204	4.15	NR
DPE-5	2/22/2010	16.7	3271	7.48	231	6.3	NR
DPE-5	5/13/2010	17.1	3115	7.92	274	7.54	NR
DPE-5	8/18/2010	18.3	2997	10.5	241	3.65	NR
DPE-5	12/23/2010	17.4	2216	7.12	-13	10.3	17.7
DPE-5	3/1/2011	18.5	776	7.21	22	2.87	0
DPE-5	5/19/2011	18.6	1008	8.15	-36	2.91	NR
DPE-5	8/28/2011	18.6	3219	6.69	-44	5.9	NR
DPE-5	11/21/2011	18.5	2939	7.76	-56	4.77	NR
DPE-5	2/16/2012	18.19	2280	7.95	-72	5.11	NR
DPE-5	5/17/2012	9.9	1767	7.85	-15	1.09	NR
DPE-5	9/26/2012	18.3	1972	8.5	-73	7.2	NR
DPE-5	12/19/2012	18.9	1886	9.28	-134	0.91	NR
DPE-5 DPE-5	2/26/2013 5/23/2013	19.2	1801 1528	7.21 7.91	-44 -60	4.6 1.57	NR NR
	0.10.1.10.1.0	18.85	24.42			200	2.770
DPE-5 DPE-5	8/26/2013 12/10/2013	19.99	2163 1468	8.14	-89	2.93	NR NR
DPE-5	2/17/2014	19.12	1508	8.26	-49.2	0.92	NR
DPE-5	4/20/2014	19.05	2290	7.92	-45.2	1.44	NR
DPE-5	8/21/2014	19.34	3428	8.37	85.9	2.21	NR
DPE-5	11/19/2014	18.5	3111	8.64	-82	0.98	NR
DPE-5	2/25/2015	19.5	2818	9.8	85.6	2.48	NR
DPE-5	6/15/2015	19.89	3738	7.08	-105.8	2.3	NR
DPE-5	8/17/2015	19.92	4832	8.53	62.5	1.57	NR
DPE-5	12/14/2015	19.87	4175	8.01	162.4	2.7	NR
DPE-5	1/11/2016	17.95	3497	7.88	179.5	5.81	NR
DPE-5	5/17/2016	18.61	3308	7.12	163.1	6.17	NR

GROUNDWATER FIELD DATA

			Conductivity		Redox		Head
Monitoring	Date	Temp	@ 25 deg. C	pН	Potential	Dissolved	Space
Well	Measured	(Deg. C)	(uS/cm)		(Eh)	Oxygen	(ppm)
DPE-6	12/3/2008	14.6	735	8.12	67.1	1.9	1.2
DPE-6	9/28/2009	18.6	1086	8.39	98.6	9.8	NR
DPE-6	11/17/2009	18.7	1400	7.81	249	6.3	NR
DPE-6	2/22/2010	17.9	1248	7.81	213	5.42	NR
DPE-6	5/13/2010	18.4	1022	8.18	272	5.86	NR
DPE-6	8/18/2010	19.1	559	11.1	251	6.67	NR
DPE-6	11/18/2010	18.39	4497	7.44	-62	3.88	NR
DPE-6 DPE-6	12/23/2010 3/1/2011	17.2 17.9	3341 1048	7.11	-12 -16	10.9 2.04	17.7 6.2
DPE-6	5/19/2011	18.4	1162	8.22	-44	2.61	NR
DPE-6	8/28/2011	18.7	1800	6.82	-3	4.6	NR
DPE-6	11/21/2011	19.3	648	8.15	-76	3.49	NR
DPE-6	2/16/2012	19.07	590	7.9	-69	3.59	NR
DPE-6	5/17/2012	14.9	611	7.93	-23	6.43	NR
DPE-6	9/26/2012	19.6	461	8	50	4.3	NR
DPE-6	12/19/2012	19.6	695	7.49	-40	3.3	NR
DPE-6	2/26/2013	17.6	1726	6.91	-40	5.1	NR
DPE-6	5/23/2013	19.12	1414	7.86	-58	3.96	NR
DPE-6	8/26/2013	20.34	1006	6.97	167	2.73	NR
DPE-6	12/10/2013	19.6	622	7.89	-75	3.17	NR
DPE-6	2/17/2014	19.62	472	7.24	-4.9	2.5	NR
DPE-6	4/20/2014	19.66	706	6.95	4.7	3.28	NR
DPE-6 DPE-6	8/21/2014 11/19/2014	19.51 19.6	879 929	7.84 8.02	130.1 95	3.65 3.11	NR NR
DPE-6	2/25/2015	18.6	1088	7.6	13.3	3.1	NR
DPE-6	6/15/2015	19.99	882	7.98	-54.2	3.55	NR
DPE-6	8/17/2015	19.68	1132	7.84	412.4	3.14	NR
DPE-6	12/14/2015	19.65	1380	7.5	274.3	3.6	NR
DPE-6	1/11/2016	18.39	1486	7.58	193	3.53	NR
DPE-6	5/17/2016	19.27	1563	7.14	162.5	4.95	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 DPE-7	2/22/2010 5/13/2010	18.1 18.5	1354 1240	7.84 7.93	209 272	5.31 5.19	NR NR
DPE-7 DPE-7	8/18/2010	19.7	1012	11.1	276	4.13	NR
DPE-7	11/18/2010	19.19	2535	7.61	-71	3.54	NR
DPE-7	12/23/2010	17.3	5901	7.19	-18	9.6	10.7
DPE-7	3/1/2011	18.5	996	7.01	-8	1.96	0
DPE-7	5/19/2011	18.2	2472	8.09	-43	2.97	NR
DPE-7	8/28/2011	16.9	1602	7.72	-51	9.4	NR
DPE-7	11/21/2011	19.7	727	7.92	-64	3.48	NR
DPE-7	2/16/2012	19.3	1478	7.5	-48	2.5	NR
DPE-7	5/17/2012	19.3	1366	7.68	-22	4.76	NR
DPE-7	9/26/2012	19.9	747	7.8	40	4.3	NR
DPE-7	12/19/2012	20	1045	6.88	-8.6	3.04	NR
DPE-7	2/26/2013 5/23/2013	18.4	1500 2289	7.08	-49 -28	2.98	NR NP
DPE-7 DPE-7	8/26/2013	19.6 19.6	2289	7.28	-28	2.98	NR NR
DPE-7	12/10/2013	19.7	972	7.28	-76	4.4	NR
DPE-7	2/17/2014	19.11	885	7.95	-31.9	3.45	NR
DPE-7	4/20/2014	19.36	11.33	7.65	-31.3	3.61	NR
DPE-7	8/21/2014	20.33	1655	7.77	95.3	3.51	NR
DPE-7	11/19/2014	19.2	1524	8.26	93	3.61	NR
DPE-7	2/25/2015	18.7	1442	6.31	103	3.36	NR
DPE-7	6/15/2015	19.91	1273	8.1	-58.4	2.65	NR
DPE-7	8/17/2015	19.94	2319	7.98	442.1	2.56	NR
DPE-7	12/14/2015	19.73	2297	7.41	182.7	3.01	NR
DPE-7	1/11/2016	20.17	1845	7.22	191.1	4.51	NR
DPE-7	5/17/2016	19.73	2311	7.02	157.9	5.08	NR
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GROUNDWATER FIELD DATA

MN Bio Business Center 221 First Avenue SW Rochester, Minnesota

			Conductivity		Redox		Head
Monitoring	Date	Temp	@ 25 deg. C	pН	Potential	Dissolved	Space
Well	Measured	(Deg. C)	(uS/cm)		(Eh)	Oxygen	(ppm)
DPE-8	12/3/2008	13.6	753	7.52	165	1.4	1056
DPE-8	9/28/2009	17.31	2826	7.93	460	6.61	NR
DPE-8	11/17/2009	1678	3604	7.2	226	5.19	NR
DPE-8	2/22/2010	16.2	2661	7.82	227	7.15	NR
DPE-8	5/13/2010	17.8	2236	8.03	267	9.06	NR
DPE-8	8/18/2010	17.6	3115	11	262	6.68	NR
DPE-8	11/18/2010	NR	NR	NR	NR	NR	NR
DPE-8	12/23/2010	17.3	4162	NR	NR	NR	11.4
DPE-8	3/1/2011	18.4	872	6.92	21	1.87	0.8
DPE-8	5/19/2011	18.4	3649	7.21	1.7	2.22	NR
DPE-8	8/28/2011	18.7	5345	7.14	-20	4.09	NR
DPE-8	11/21/2011	18.55	5100	7.2	-28	3.38	NR
DPE-8	2/16/2012	NR*	NR*	NR*	NR*	NR*	NR
DPE-8	5/17/2012	NR*	NR*	NR*	NR*	NR*	NR
DPE-8	9/26/2012	NR*	NR*	NR*	NR*	NR*	NR
DPE-8	12/19/2012	NR*	NR*	NR*	NR*	NR*	NR
DPE-8	2/26/2013	NR*	NR*	NR*	NR*	NR*	NR
DPE-8	2/25/2013	19.9	6720	7.35	-32	4.3	NR
DPE-8	8/26/2013	19.98	7601	6.65	186	2.82	NR
DPE-8	12/10/2013	NR*	NR*	NR*	NR*	NR*	NR
DPE-8	2/17/2014	NR*	NR*	NR*	NR*	NR*	NR
DPE-8	4/20/2014	NR*	NR*	NR*	NR*	NR*	NR
DPE-8	8/21/2014	19.37	8741	7.17	165.2	3.48	NR
DPE-8	11/19/2014	NR*	NR*	NR*	NR*	NR*	NR
DPE-8	2/25/2015	20.7	6803	8.45	128	2.3	NR
DPE-8	6/15/2015	19.8	8359	7.41	-27.7	4.05	NR
DPE-8	8/17/2015	20.4	9924	7.38	125.5	2.65	NR
DPE-8	12/14/2015	19.86	9141	7.28	160.3	3.08	NR
DPE-8	1/11/2016	18.17	7311	7.35	239.3	5.57	NR
DPE-8	5/17/2016	17.69	7236	6.88	174.5	6.5	NR

Notes:

Bold - number has exceeded the range of the instrument NR - Not Recorded

NR* - Not Recorded, well was dry

Sample ID	Date	PCE Conc. (ug/L)	% Change
MW-14	12/3/2008	30.6	
MW-14	6/29/2009	30.6	
MW-14	10/1/2009	4.2	-86.3
MW-14	11/16/2009	7.1	-76.8
MW-14	2/23/2010	3.0	-90.2
MW-14	5/12/2010	3.1	-89.9
MW-14	8/18/2010	1.8	-94.1
MW-14	11/18/2010	6.6	-78.4
MW-14 MW-14	3/1/2011 5/19/2011	4.8 5.0	-84.3 -83.7
MW-14	8/28/2011	1.5	-95.1
MW-14	11/21/2011	1.5	-95.1
MW-14	2/16/2012	<1.0	-100.0
MW-14	5/17/2012	<1.0	-100.0
MW-14	9/26/2012	<1.0	-100.0
MW-14	12/19/2012	1.3	-95.8
MW-14	2/25/2013	<1.0	-100.0
MW-14	5/23/2013	2.2	-92.8
MW-14	8/26/2013	1.2	-96.1
MW-14 MW-14	12/10/2013	1.5	-95.1
MW-14	2/17/2014 5/20/2014	3.1	-89.9 -81.4
MW-14	8/21/2014	5.7 1.4	-95.4
MW-14	11/19/2014	2.9	-90.5
MW-14	3/3/2015	244.0	697.4
MW-14	6/15/2015	60.4	97.4
MW-14	8/18/2015	4.1	-86.6
MW-14	12/14/2015	88.3	188.6
MW-14	1/11/2016	11.1	-63.7
MW-14	2/23/2016	2.8	-90.8
MW-14	5/17/2016	35.7	16.7
MW-15	12/10/2008	104	
MW-15	6/29/2009	104	
MW-15	10/1/2009	15.7	-84.9
MW-15	11/16/2009	9.5	-90.9
MW-15	2/22/2010	5.7	-94.5
MW-15 MW-15	5/12/2010 8/18/2010	2.8 1.3	-97.3 -98.8
MW-15	11/18/2010	3.3	-96.8
MW-15	3/1/2011	<1.0	-100.0
MW-15	5/19/2011	<1.0	-100.0
MW-15	8/28/2011	1.2	-98.8
MW-15	11/21/2011	<1.0	-100.0
MW-15	2/15/2012	<1.0	-100.0
MW-15	5/17/2012	<1.0	-100.0
MW-15	9/26/2012	<1.1	-99.0
MW-15 MW-15	12/19/2012	<1.0	-100.0
MW-15	2/25/2013 5/23/2013	<1.0	-100.0 -96.3
MW-15	8/26/2013	<1.0	-100.0
MW-15	12/10/2013	<1.0	-100.0
MW-15	2/17/2014	<1.0	-100.0
MW-15	5/20/2014	1.6	-98.5
MW-15	8/21/2014	<1.0	-100.0
MW-15	11/19/2014	<1.1	-100.0
MW-15	3/3/2015	85.2	-18.1
MW-15	6/15/2015	101	-2.9
MW-15	8/18/2015	1.8	-98.3
MW-15 MW-15	12/14/2015	194	86.5
MW-15	1/11/2016 2/23/2016	11.9 1.1	-88.6 -98.9
MW-15	5/17/2016	26.4	-74.6
19199-10	0/11/2010	23.7	7 7.0

		PCE	
Sample ID	Date	Conc.	% Change
		(ug/L)	
MW-16	12/3/2008	14,100	
MW-16	6/29/2009	14,100	
MW-16	10/1/2009	6,890	-51.1
MW-16	11/16/2009	21,000	48.9
MW-16	2/22/2010	4,390	-68.9
MW-16	5/12/2010	815	-94.2
MW-16	8/18/2010	696	-95.1
MW-16	11/18/2010	2,120	-85.0
MW-16	3/1/2011	322	-97.7
MW-16	5/19/2011	1,310	-90.7
MW-16	8/28/2011	590	-95.8
MW-16	11/21/2011	75	-99.5
MW-16	2/15/2012	16.1	-99.9
MW-16	5/17/2012	7.8	-99.9
MW-16	9/26/2012	21.8	-99.8
MW-16	12/19/2012	128.0	-99.1
MW-16	2/25/2013	8.0	-99.9
MW-16	5/23/2013	7,450.0	-47.2
MW-16	8/26/2013	469.0	-96.7
MW-16	12/10/2013	432.0	-96.9
MW-16	2/17/2014	432.0	-96.9 -97.1
MW-16 MW-16	5/20/2014 8/21/2014	2,530.0	-82.1
		1,780.0	-87.4
MW-16 MW-16	11/19/2014	2,350.0	-83.3
	2/25/2015	963.0	-93.2
MW-16	6/15/2015	2,650.0	-81.2
MW-16	8/18/2015	2,790.0	-80.2
	12/14/2015	1,490.0	-89.4
MW-16	1/11/2016	290.0	-97.9
MW-16	2/23/2016	461.0	-96.7
MW-16	5/17/2016	452.0	-96.8
MW-17	12/3/2008	363	
MW-17	6/29/2009	363	
			101.0
MW-17 MW-17	10/1/2009	803	121.2
MW-17	11/16/2009	1,100	203.0
	2/22/2010	639	76.0
MW-17	5/12/2010	412	13.5
MW-17	8/18/2010	174	-52.1
MW-17	11/18/2010	209	-42.4
MW-17	3/1/2011	145	-60.1
MW-17	5/19/2011	109	-70.0
MW-17	8/28/2011	107	-70.5
MW-17	11/21/2011	106	-70.8
MW-17	2/15/2012	47.1	-87.0
MW-17	5/17/2012	37.1	-89.8
MW-17	9/26/2012	38.1	-89.5
MW-17	12/19/2012	22.0	-93.9
MW-17	2/25/2013	49.9	-86.3
MW-17	5/23/2013	215.0	-40.8
MW-17	8/26/2013	95.5	-73.7
MW-17	12/10/2013	69.9	-80.7
MW-17	2/17/2014	54.8	-84.9
MW-17	5/20/2014	94.7	-73.9
MW-17	8/21/2014	211.0	-41.9
MW-17	11/19/2014	227.0	-37.5
MW-17	2/25/2015	70.4	-80.6
MW-17	6/15/2015	433.0	19.3
MW-17	8/18/2015	1,060.0	192.0
MW-17	12/14/2015	1,010.0	178.2
MW-17	1/11/2016	329.0	-9.4
MW-17	2/23/2016	877.0	141.6
MW-17	5/18/2016	227.0	-37.5

Sample ID	Date	PCE Conc.	% Change
Sample ID	Date	(ug/L)	76 Change
MW-18	12/3/2008	257	
MW-18 MW-18	6/29/2009	257	0.7
MW-18	10/1/2009 11/16/2009	250 130	-2.7 -49.4
MW-18	2/22/2010	96.8	-49.4
MW-18	5/12/2010	26	-89.9
MW-18	8/18/2010	8.4	-96.7
MW-18	11/18/2010	8.6	-96.7
MW-18	3/1/2011	4.8	-98.1
MW-18 MW-18	5/19/2011	3.6	-98.6
MW-18	8/28/2011 11/21/2011	3.6	-98.6 -98.6
MW-18	2/15/2012	2.9	-98.9
MW-18	5/17/2012	1.5	-99.4
MW-18	9/26/2012	1.8	-99.3
MW-18	12/19/2012	<1.0	-100.0
MW-18	2/25/2013	2.3	-99.1
MW-18 MW-18	5/23/2013	1.2	-99.5
MW-18	8/26/2013 12/10/2013	1.5 1.6	-99.4 -99.4
MW-18	2/17/2014	2	-99.4
MW-18	5/20/2014	15.7	-93.9
MW-18	8/21/2014	3	-98.8
MW-18	11/19/2014	1.3	-99.5
MW-18	2/25/2015	2.3	-99.1
MW-18	6/15/2015	340	32.3
MW-18	8/18/2015	2.1	-99.2
MW-18	12/14/2015	952	270.4
MW-18 MW-18	1/11/2016 2/23/2016	156 522	-39.3 103.1
MW-18	5/18/2016	121	-52.9
101111	0/10/2010	121	02.0
MW-19	12/3/2008	2.4	
MW-19	6/29/2009	2.4	
MW-19	9/24/2009	17.4	625.0
MW-19 MW-19	11/16/2009 2/23/2010	13.6 12.9	466.7 437.5
MW-19	5/12/2010	7.2	200.0
MW-19	8/18/2010	4.2	75.0
MW-19	11/18/2010	4.8	100.0
MW-19	3/1/2011	4.8	100.0
MW-19	5/19/2011	4.7	95.8
MW-19	8/28/2011	2.9	20.8
MW-19	11/21/2011	2.7	12.5
MW-19 MW-19	2/15/2012 5/17/2012	2.2 1.1	-8.3 -54.2
MW-19	9/26/2012	<1.0	-54.2 -100.0
MW-19	12/19/2012	1.4	-41.7
MW-19	2/25/2013	<1.0	-100.0
MW-19	5/23/2013	3	25.0
MW-19	8/26/2013	1.7	-29.2
MW-19	12/10/2013	2.1	-12.5
MW-19	2/17/2014	11.7	387.5
MW-19 MW-19	5/20/2014 8/21/2014	4.7 3.7	95.8 54.2
MW-19	11/19/2014	5.3	120.8
MW-19	2/25/2015	50.1	1987.5
MW-19	6/15/2015	203	8358.3
MW-19	8/18/2015	55.7	2220.8
MW-19	12/14/2015	139	5691.7
MW-19	1/11/2016	36.1	1404.2
MW-19	2/23/2016	35.4	1375.0
MW-19	5/17/2016	54.2	2158.3
			[

		PCE	
Sample ID	Date	Conc.	% Change
•		(ug/L)	•
MW-20	12/10/2008	599	
MW-20	6/29/2009	599	
MW-20	10/1/2009	713	19.0
MW-20	11/16/2009	307	-48.7
MW-20	2/23/2010	402	-32.9
MW-20	5/12/2010	194	-67.6
MW-20	8/18/2010	74.7	-87.5
MW-20	11/18/2010	50.9	-91.5
MW-20	3/1/2011	211	-64.8
MW-20	5/19/2011	16.8	-97.2
MW-20	8/28/2011	12.2	-98.0
MW-20	11/21/2011	32.5	-94.6
MW-20	2/15/2012	41.8	-93.0
MW-20	5/17/2012	28.7	-95.2
MW-20	9/26/2012	17.4	-97.1
MW-20	12/19/2012	40.8	-93.2
MW-20	2/25/2013	50.2	-91.6
MW-20	5/23/2013	198	-66.9
MW-20	8/26/2013	45.5	-92.4
MW-20	12/10/2013	81.4	-86.4
MW-20	2/17/2014	106	-82.3
MW-20	5/20/2014	46.9	-92.2
MW-20	8/21/2014	12.7	-97.9
MW-20	11/19/2014	20.4	-96.6
MW-20	2/25/2015	47.1	-92.1
MW-20	6/15/2015	172	-71.3
MW-20	8/18/2015	762	27.2
MW-20	12/14/2015	177	-70.5
MW-20	1/11/2016	27.5	-95.4
MW-20	2/23/2016	62	-89.6
MW-20	5/17/2016	23.2	-96.1

	5.4	PCE	a, a,
Sample ID	Date	Conc. (ug/L)	% Change
DPE-1	8/7/2008	157,000	
DPE-1	12/10/2008	161,000	
DPE-1	6/29/2009	161,000	
DPE-1	9/28/2009	6,820	-95.8
DPE-1	11/16/2009	3,330	-97.9
DPE-1	2/22/2010	2,610	-98.4
DPE-1 DPE-1	5/13/2010 8/18/2010	1,700 965	-98.9 -99.4
DPE-1	12/22/2010	1,190	-99.3
DPE-1	3/1/2011	101	-99.9
DPE-1	5/19/2011	185	-99.9
DPE-1	8/28/2011	309	-99.8
DPE-1	11/21/2011	99	-99.9
DPE-1	2/16/2012	26.4	-100.0
DPE-1	5/17/2012	38.8	-100.0
DPE-1	9/26/2012	82.2	-99.9
DPE-1	12/19/2012	505.0	-99.7
DPE-1 DPE-1	2/26/2013 5/23/2013	171.0 9,840.0	-99.9 -93.9
DPE-1	8/26/2013	265.0	-99.8
DPE-1	12/10/2013	1,270.0	-99.2
DPE-1	2/17/2014	2,400.0	-98.5
DPE-1	5/20/2014	1,550.0	-99.0
DPE-1	8/21/2014	5,620.0	-96.5
DPE-1	11/19/2014	4,180.0	-97.4
DPE-1	2/25/2015	4,690.0	-97.1
DPE-1	6/15/2015	4,660.0	-97.1
DPE-1	8/18/2015	6,700.0	-95.8
DPE-1 DPE-1	12/14/2015 1/11/2016	5,490.0 1,270.0	-96.6 -99.2
DPE-1	2/23/2016	2,970.0	-98.2
DPE-1	5/18/2016	889.0	-99.4
DPE-2	12/10/2008	38,200	
DPE-2	6/29/2009	38,200	
DPE-2	9/28/2009	32,000	-16.2
DPE-2	11/17/2009	10,600	-72.3
DPE-2	2/22/2010	2,710	-92.9
DPE-2 DPE-2	5/13/2010 8/18/2010	5,800 12,100	-84.8 -68.3
DPE-2	12/22/2010	4,690	-87.7
DPE-2	3/1/2011	2,990	-92.2
DPE-2	5/19/2011	1,680	-95.6
DPE-2	8/28/2011	2,080	-94.6
DPE-2	11/21/2011	890	-97.7
DPE-2	2/16/2012	511	-98.7
DPE-2	5/17/2012	206	-99.5
DPE-2	9/26/2012	39	-99.9
DPE-2 DPE-2	12/19/2012 2/26/2013	746 140	-98.0 -99.6
DPE-2	5/23/2013	7,100	-81.4
DPE-2	8/26/2013	184	-99.5
DPE-2	12/10/2013	1,720	-95.5
DPE-2	2/17/2014	1,840	-95.2
DPE-2	5/20/2014	6,800	-82.2
DPE-2	8/21/2014	7,330	-80.8
DPE-2	11/19/2014	6,200	-83.8
DPE-2	3/3/2015	1,100	-97.1
DPE-2	6/15/2015	5,130	-86.6 73.0
DPE-2 DPE-2	8/18/2015 12/14/2015	10,300 7,680	-73.0 -79.9
DPE-2	1/11/2016	1,280	-79.9 -96.6
DPE-2	2/23/2016	4,230	-88.9
DPE-2	5/18/2016	1,260	-96.7

	D. /	PCE	a, 61
Sample ID	Date	Conc. (ug/L)	% Change
DPE-3	12/10/2008	152,000	
DPE-3	6/29/2009	152,000	
DPE-3	9/28/2009	20,300	-86.6
DPE-3	11/17/2009	34,600	-77.2
DPE-3	2/22/2010	806	-99.5
DPE-3	5/13/2010	2,240	-98.5
DPE-3	8/18/2010	20,400	-86.6
DPE-3	12/22/2010	1,450	-99.0
DPE-3 DPE-3	3/1/2011 5/19/2011	12,700 3,220	-91.6 -97.9
DPE-3	8/28/2011	4,260	-97.9
DPE-3	11/21/2011	5,310	-96.5
DPE-3	2/16/2012	1,010	-99.3
DPE-3	5/17/2012	3,690	-97.6
DPE-3	9/26/2012	75	-100.0
DPE-3	12/19/2012	5,670	-96.3
DPE-3	2/26/2013	264	-99.8
DPE-3	5/23/2013	61,800	-59.3
DPE-3	8/26/2013	6,980	-95.4
DPE-3	12/10/2013	10,200	-93.3
DPE-3	2/17/2014	20,000	-86.8
DPE-3	5/20/2014	53,800	-64.6
DPE-3	8/21/2014	21,200	-86.1
DPE-3	11/19/2014	36,300	-76.1
DPE-3	2/25/2015	30,800	-79.7
DPE-3	6/15/2015 8/18/2015	21,200	-86.1
DPE-3 DPE-3	12/14/2015	30,800 37,300	-79.7 -75.5
DPE-3	1/11/2016	2,960	-98.1
DPE-3	2/23/2016	19,600	-87.1
DPE-3	5/18/2016	2,510	-98.3
		,-	
DPE-4	12/10/2008	35,600	
DPE-4	6/29/2009	35,600	
DPE-4	9/28/2009	7,340	-79.4
DPE-4	11/17/2009	5,040	-85.8
DPE-4	2/22/2010	429	-98.8
DPE-4	5/13/2010	357	-99.0
DPE-4	8/18/2010	2,600 1,100	-92.7
DPE-4 DPE-4	12/22/2010 3/1/2011	1,160	-96.9 -96.7
DPE-4	5/19/2011	367	-99.0
DPE-4	8/28/2011	771	-97.8
DPE-4	11/21/2011	763	-97.9
DPE-4	2/16/2012	830	-97.7
DPE-4	5/17/2012	223	-99.4
DPE-4	9/26/2012	187	-99.5
DPE-4	12/19/2012	1,410	-96.0
DPE-4	2/26/2013	219	-99.4
DPE-4	5/23/2013	13,700	-61.5
DPE-4	8/26/2013	982	-97.2
DPE-4	12/10/2013	6,850	-80.8
DPE-4	2/17/2014	8,860	-75.1
DPE-4	5/20/2014	8,320	-76.6
DPE-4	8/21/2014	9,670	-72.8
DPE-4 DPE-4	11/19/2014 2/25/2015	11,100	-68.8 -85.7
DPE-4	6/15/2015	5,090 11,800	-85.7 -66.9
DPE-4	8/18/2015	14,900	-58.1
DPE-4	12/14/2015	6,900	-80.6
DPE-4	1/11/2016	1,040	-97.1
DPE-4	2/23/2016	6,170	-82.7
DPE-4	5/18/2016	724	-98.0

		PCE	
Sample ID	Date	Conc.	% Change
		(ug/L)	
DPE-5	12/10/2008	1,340	
DPE-5	6/29/2009	1,340	
DPE-5	9/24/2009	875	-34.7
DPE-5	11/17/2009	1,450	8.2
DPE-5	2/22/2010	486	-63.7
DPE-5	5/13/2010	205	-84.7
DPE-5	8/18/2010	124	-90.7
DPE-5	12/22/2010	22	-98.4
DPE-5	3/1/2011	339	-74.7
DPE-5	5/19/2011	67	-95.0
DPE-5	8/28/2011	<1.0	-100.0
DPE-5	11/21/2011	51	-96.2
DPE-5	2/16/2012	70	-94.8
DPE-5	5/17/2012	11	-99.2
DPE-5	9/26/2012	16	-98.8
DPE-5	12/19/2012	74	-94.5
DPE-5	2/26/2013	31	-97.7
DPE-5	5/23/2013	405	-69.8
DPE-5	8/26/2013	30	-97.8
DPE-5	12/10/2013	740	-44.8
DPE-5	2/17/2014	209	-84.4
DPE-5	5/20/2014	135	-89.9
DPE-5	8/21/2014	1,670	24.6
DPE-5	11/19/2014	2,280	70.1
DPE-5	2/25/2015	174	-87.0
DPE-5	6/15/2015	288	-78.5
DPE-5	8/18/2015	17,900	1235.8
DPE-5	12/14/2015	263	-80.4
DPE-5	1/11/2016	209	-84.4
DPE-5	2/23/2016	148	-89.0
DPE-5	5/17/2016	152	-88.7
DPE-6	12/10/2008	188	
DPE-6	6/29/2009	188	-57.8
DPE-6 DPE-6	9/24/2009 11/17/2009	79.3 104	-44.7
DPE-6	2/22/2010	57.8	-69.3
DPE-6	5/13/2010	14.6	-92.2
DPE-6	8/18/2010	21.7	-88.5
DPE-6	12/22/2010	77.1	-59.0
DPE-6	3/1/2011	3.9	-97.9
DPE-6	5/19/2011	23.4	-87.6
DPE-6	8/28/2011	7.7	-95.9
DPE-6 DPE-6	11/21/2011 2/16/2012	1.9 44.8	-99.0 -76.2
DPE-6	5/17/2012	<1.0	-100.0
DPE-6	9/26/2012	4.6	-97.6
DPE-6	12/19/2012	10.9	-94.2
DPE-6	2/26/2013	19.8	-89.5
DPE-6	5/23/2013	6.2	-96.7
DPE-6	8/26/2013	4	-97.9
DPE-6	12/10/2013	107	-43.1
DPE-6	2/17/2014	12.9	-93.1
DPE-6 DPE-6	5/20/2014 8/21/2014	17.4 25	-90.7 -86.7
DPE-6	11/19/2014	24.6	-86.9
DPE-6	2/25/2015	5.2	-97.2
DPE-6	6/15/2015	52	-72.3
DPE-6	8/18/2015	65.9	-64.9
DPE-6	12/14/2015	67.8	-63.9
DPE-6	1/11/2016	17	-91.0
DPE-6	2/23/2016	5.8	-96.9
DPE-6	5/17/2016	51.2	-72.8

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

		PCE	
Sample ID	Date	Conc. (ug/L)	% Change
DPE-7	12/10/2008	22.3	
DPE-7	6/29/2009	22.3	
DPE-7	9/24/2009	5.2	-76.7
DPE-7	11/17/2009	55.2	147.5
DPE-7	2/22/2010	7.3	-67.3
DPE-7	5/13/2010	25.7	15.2
DPE-7 DPE-7	8/18/2010 12/22/2010	189 23.2	747.5 4.0
DPE-7	3/1/2011	7.1	-68.2
DPE-7	5/19/2011	15.9	-28.7
DPE-7	8/28/2011	26.9	20.6
DPE-7	11/21/2011	<1.0	-100.0
DPE-7	2/16/2012	27.8	24.7
DPE-7	5/17/2012	<1.0	-100.0
DPE-7	9/26/2012	<1.0	-100.0
DPE-7	12/19/2012	3.7	-83.4
DPE-7	2/26/2013	8	-64.1
DPE-7	5/23/2013	1.6	-92.8
DPE-7	8/26/2013	<0.4	-100.0
DPE-7	12/10/2013	2	-91.0
DPE-7	2/17/2014	5.8	-74.0
DPE-7	5/20/2014	6.9	-69.1
DPE-7	8/21/2014	44.2	98.2
DPE-7	11/19/2014	48.9	119.3
DPE-7	2/25/2015	14	-37.2
DPE-7	6/15/2015	233	944.8
DPE-7	8/18/2015	127 146	469.5 554.7
DPE-7 DPE-7	12/14/2015 1/11/2016	29.1	30.5
DPE-7	2/23/2016	3.4	-84.8
DPE-7	5/17/2016	37	65.9
DI L-I	3/11/2010	- 51	00.0
DPE-8	12/10/2008	14,200	
DPE-8	6/29/2009	14,200	
DPE-8	9/24/2009	1,850	-87.0
DPE-8	11/17/2009	1,480	-89.6
DPE-8	2/22/2010	90.3	-99.4
DPE-8	5/13/2010	66.9	-99.5
DPE-8	8/18/2010	131.0	-99.1
DPE-8	12/22/2010	262.0	-98.2
DPE-8	3/1/2011	415.0	-97.1
DPE-8	5/19/2011	698.0	-95.1
DPE-8	8/28/2011	700.0	-95.1
DPE-8	11/21/2011	389.0	-97.3
DPE-8	2/16/2012	NS NS	NS NC
DPE-8	5/17/2012	NS NS	NS NS
DPE-8	9/26/2012 12/19/2012	NS NS	NS NS
DPE-8	2/26/2013	NS	NS
DPE-8	5/23/2013	4,240.0	-70.1
DPE-8	8/26/2013	291.0	-98.0
DPE-8	12/10/2013	2.450.0	-82.7
DPE-8	2/17/2014	2,390.0	-83.2
DPE-8	5/20/2014	5,610.0	-60.5
DPE-8	8/21/2014	1,130.0	-92.0
DPE-8	11/19/2014	1,230.0	-91.3
DPE-8	2/25/2015	221.0	-98.4
DPE-8	6/15/2015	2,980.0	-79.0
DPE-8	8/18/2015	2,350.0	-83.5
DPE-8	12/14/2015	2,700.0	-81.0
DPE-8	1/11/2016	288.0	-98.0
DPE-8	2/23/2016	503.0	-96.5
DPE-8	5/18/2016	808.0	-94.3
Notes:		l	l

Notes: NS - Not Sampled

221 1st Avenue SW Rochester, Minnesota

Sample ID	MDH Health	DPE-1	DPE-1	DPE-1	DPE-1	DPE-1	DPE-1	DPE-1	DPE-1	DPE-1	DPE-1	DPE-1	DPE-1	DPE-1	DPE-1	DPE-1	DPE-1	DPE-1	DPE-1	DPE-1	DPE-1	DPE-1	DPE-1	DPE-1	DPE-1	DPE-1	DPE-1	DPE-1	DPE-1	DPE-1	DPE-1	DPE-1
Collected Date and Time	Risk Limits 5/09	5/18/2016	2/23/2016	1/11/2016	12/14/2015	8/18/2015	6/15/2015	2/25/2015	11/19/2014	8/21/2014	5/20/2014	12/10/2013	12/10/2013	8/26/2013	5/23/2013	2/25/2013	12/19/2012	9/26/2012	5/17/2012	2/16/2012	11/21/2011	8/28/2011	5/19/2011	03/01/11	12/22/10	08/18/10	05/13/10	02/22/10	11/16/09	09/28/09	12/10/08	8/7/2008
1,1,1,2-Tetrachloroethane	70	<40.0	<40.0	<10.0	<50.0	<50.0	<50.0	<50.0	<25.0	<10.0	<1.0	<10.0	<2.0	<1.0	1.6	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<5.0	<1.0	<25.0	<25.0	<50.0	NA*	<250
1,1,1-Trichloroethane 1,1,2,2-Tetrachloroethane	9000	<10.0 <10.0	<40.0 <40.0	<10.0 <10.0	<50.0 <50.0	<50.0 <50.0	<50.0 <50.0	<50.0 <50.0	<25.0 <25.0	<10.0 <10.0	<1.0 <1.0	<10.0 <10.0	<2.0 <2.0	<1.0 <1.0	6.4 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<5.0 <5.0	<5.0 <5.0	<1.0 <1.0	<25.0 <25.0	<25.0 <25.0	<50.0 <50.0	NA* NA*	<250 <250
1,1,2-Trichloroethane	3	<10.0	<40.0	<10.0	<50.0	<50.0	<50.0	<50.0	<25.0	<10.0	<1.0	<10.0	<2.0	<1.0	1.2	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<5.0	<1.0	<25.0	<25.0	<50.0	NA*	<250
1,1,2-Trichlorotrifluoroethane 1,1-Dichloroethane	200000 70	58.9 <10.0	<200 <40.0	71.4 <10.0	<50.0 <50.0	231 <50.0	96.8 <50.0	248 <50.0	145 <25.0	85.1 <10.0	16.0 <1.0	28.1 <10.0	9.6 <2.0	35.8 <1.0	145 <1.0	7.9 <1.0	3.9 <1.0	1.1 <1.0	1.1 <1.0	<1.0 <1.0	3.2 <1.0	9.5 <1.0	13.3 <1.0	3.2 <1.0	37.8 <5.0	66.4 <5.0	148 <1.0	190 <25.0	215 <25.0	912 <50.0	NA* NA*	11,300 <250
1,1-Dichloroethene	6	<10.0	<40.0	<10.0	<50.0	<50.0	<50.0	<50.0	<25.0	<10.0	<1.0	<10.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<5.0	<1.0	<25.0	<25.0	<50.0	<2000	<250
1,1-Dichloropropene 1,2,3-Trichlorobenzene	NL NI	<10.0 <10.0	<40.0 <200	<10.0 <50.0	<50.0 <50.0	<50.0 <50.0	<50.0 <50.0	<50.0 <50.0	<25.0 <25.0	<10.0 <10.0	<1.0 <1.0	<10.0 <10.0	<2.0 <2.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<5.0 <5.0	<5.0 <5.0	<1.0 <1.0	<25.0 <25.0	<25.0 <25.0	<50.0 <50.0	NA* NA*	<250 <250
1,2,3-Trichloropropane	40	<40.0	<40.0	<10.0	<200	<200	<200	<200	<100	<40.0	<4.0	<40.0	<8.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<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 NI	<10.0	<200	<50.0	<50.0	<50.0	<50.0	<50.0	<25.0	<10.0	<1.0	<10.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0 <1.0	<1.0 <1.0	<1.0	<1.0	<1.0 <1.0	<5.0	<5.0	<1.0 <1.0	<25.0	<25.0	<50.0	NA* NA*	<250
1,2,4-Trimethylbenzene 1,2-Dibromo-3-chloropropane	NL NL	<10.0 <100	<40.0 <200	<10.0 <50.0	<50.0 <200	<50.0 <200	<50.0 <500	<50.0 <200	<25.0 <100	<10.0 <40.0	<1.0 <4.0	<10.0 <40.0	<2.0 <8.0	<1.0 <4.0	<1.0 <4.0	<1.0 <4.0	<1.0 <4.0	<1.0 <4.0	<1.0 <4.0	<4.0	<4.0	<1.0 <4.0	<1.0 <4.0	<4.0	<5.0 <20.0	<5.0 <20.0	<4.0	<25.0 <100	<25.0 <100	<50.0 <200	NA*	<250 <1000
1,2-Dibromoethane (EDB)	.004	<10.0	<40.0	<10.0	<50.0	<50.0	<50.0	<50.0	<25.0	<10.0	<1.0	<10.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<5.0	<1.0	<25.0	<25.0	<50.0	NA*	<250
1,2-Dichlorobenzene 1,2-Dichloroethane	600 4	<10.0 <10.0	<40.0 <40.0	<10.0 <10.0	<50.0 <50.0	<50.0 <50.0	<50.0 <50.0	<50.0 <50.0	<25.0 <25.0	<10.0 <10.0	<1.0 <1.0	<10.0 <10.0	<2.0 <2.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<5.0 <5.0	<5.0 <5.0	<1.0 <1.0	<25.0 <25.0	<25.0 <25.0	<50.0 <50.0	NA* NA*	<250 <250
1,2-Dichloropropane	5	<40.0	<40.0	<10.0	<200	<200	<200	<200	<100	<40.0	<4.0	<40.0	<8.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<1.0	<5.0	<5.0	<1.0	<25.0	<25.0	<50.0	NA*	<250
1,3,5-Trimethylbenzene 1,3-Dichlorobenzene	100 NL	<10.0 <10.0	<40.0 <40.0	<10.0 <10.0	<50.0 <50.0	<50.0 <50.0	<50.0 <50.0	<50.0 <50.0	<25.0 <25.0	<10.0 <10.0	<1.0 <1.0	<10.0 <10.0	<2.0 <2.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<5.0 <5.0	<5.0 <5.0	<1.0 <1.0	<25.0 <25.0	<25.0 <25.0	<50.0 <50.0	NA* NA*	<250 <250
1,3-Dichloropropane	NL	<10.0	<40.0	<10.0	<50.0	<50.0	<50.0	<50.0	<25.0	<10.0	<1.0	<10.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<5.0	<1.0	<25.0	<25.0	<50.0	NA*	<250
1,4-Dichlorobenzene 2,2-Dichloropropane	10 NL	<10.0 <40.0	<40.0 <40.0	<10.0 <10.0	<50.0 <200	<50.0 <200	<50.0 <200	<50.0 <200	<25.0 <100	<10.0 <40.0	<1.0 <4.0	<10.0 <40.0	<2.0 <8.0	<1.0 <4.0	<1.0 <4.0	<1.0 <4.0	<1.0 <4.0	<1.0 <4.0	<1.0 <4.0	<1.0 <4.0	<1.0 <4.0	<1.0 <4.0	<1.0 <4.0	<1.0	<5.0 <20.0	<5.0 <20.0	<1.0 <4.0	<25.0 <25.0	<25.0 <100	<50.0 <50.0	NA* NA*	<250 <250
2-Butanone (MEK)	4000	<50.0	<800	<200	<250	<250 <250	<250	<250	<125	<50.0	<4.0 <5.0	<50.0	<8.0 <10.0	<4.0 <5.0	<4.0 <5.0	<4.0 <4.0	<4.0 <4.0	<4.0 <4.0	<4.0 <4.0	<4.0 <4.0	<4.0 <4.0	<4.0 <4.0	<4.0 <4.0	<4.0 <4.0	<20.0	<20.0	<4.0 <4.0	<25.0 <100	<100	<200	NA*	<1000
2-Chlorotoluene	NL	<10.0	<40.0	<10.0	<50.0	<50.0	<50.0	<50.0	<25.0	<10.0	<1.0	<10.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<5.0	<1.0	<25.0	<25.0	<50.0	NA*	<250
4-Chlorotoluene 4-Methyl-2-pentanone (MIBK)	NL 300	<10.0 <50.0	<40.0 <800	<10.0 <200	<50.0 <250	<50.0 <250	<50.0 <250	<50.0 <250	<25.0 <125	<10.0 <50.0	<1.0 <5.0	<10.0 <50.0	<2.0 <10.0	<1.0 <5.0	<1.0 <5.0	<1.0 <4.0	<1.0 <4.0	<1.0 <4.0	<1.0 <4.0	<1.0 <4.0	<1.0 <4.0	<1.0 <4.0	<1.0 <4.0	<1.0 <4.0	<5.0 <20.0	<5.0 <20.0	<1.0 <4.0	<25.0 <100	<25.0 <100	<50.0 <200	NA* NA*	<250 <1000
Acetone	700	<200	<800	<200	<1000	<1000	<2500	<1000	<500	<200	<20.0	<200	<40.0	<20.0	<20.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<50.0	<50.0	<10.0	<250	<250	<500	NA*	<2500
Allyl chloride Benzene	30	<40.0 <10.0	<200 <40.0	<50.0 <10.0	<200 <50.0	<200 <50.0	<200 <50.0	<200 <50.0	<100 <25.0	<40.0 <10.0	<4.0 <1.0	<40.0 <10.0	<8.0 <2.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<20.0 <5.0	<20.0 <5.0	<4.0 <1.0	<100 <25.0	<100 <25.0	<200 <50.0	NA* NA*	<1000 <250
Bromobenzene	NL	<10.0	<40.0	<10.0	<50.0	<50.0	<50.0	<50.0	<25.0	<10.0	<1.0	<10.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<5.0	<1.0	<25.0	<25.0	<50.0	NA*	<250
Bromochloromethane Bromodichloromethane	NL 6	<10.0 <10.0	<40.0 <40.0	<10.0 <10.0	<50.0 <50.0	<50.0 <50.0	<50.0 <50.0	<50.0 <50.0	<25.0 <25.0	<10.0 <10.0	<1.0 <1.0	<10.0 <10.0	<2.0 <2.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<5.0 <5.0	<5.0 <5.0	<1.0 <1.0	<25.0 <25.0	<25.0 <25.0	<50.0 <50.0	NA* NA*	<250 <250
Bromoform	40	<40.0	<200	<50.0	<200	<200	<200	<200	<100	<40.0	<4.0	<40.0	<8.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<8.0	<40.0	<40.0	<8.0	<200	<200	<400	NA*	<2000
Bromomethane Carbon tetrachloride	10	<40.0 <10.0	<200 <40.0	<50.0 <10.0	<200 <50.0	<200 <50.0	<200 <50.0	<200 <50.0	<100 <25.0	<40.0 <10.0	<4.0 <1.0	<40.0 <10.0	<8.0 <2.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<10.0 <4.0	<20.0 <20.0	<20.0 <20.0	<4.0 <4.0	<100 <25.0	<100 <100	<200 <50.0	NA* NA*	<1000 <250
Chlorobenzene	100	<10.0	<40.0	<10.0	<50.0	<50.0	<50.0	<50.0	<25.0	<10.0	<1.0	<10.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<5.0	<1.0	<25.0	<25.0	<50.0	NA*	<250
Chloroethane	300 30	<10.0	<40.0	<10.0 <50.0	<50.0	<50.0	<50.0	<50.0 <50.0	<25.0	<40.0 <10.0	<1.0	<10.0 <10.0	<2.0	<1.0	<4.0	<1.0	<1.0	<1.0 <1.0	<1.0 <1.0	<1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0	<5.0	<5.0 <5.0	<1.0 2.6	<25.0	<25.0	<50.0	NA* NA*	<250 <250
Chloroform Chloromethane	NL	<10.0 <40.0	<200 <40.0	<10.0	<50.0 <200	<50.0 <200	<50.0 <200	<200	<25.0 <100	<40.0	<1.0 <4.0	<40.0	<2.0 <8.0	10.6	3.5 <4.0	<1.0 <4.0	<1.0 <4.0	<4.0	<4.0	<1.0 <4.0	<4.0	<4.0	<4.0	<1.0 <4.0	<5.0 <20.0	<20.0	<4.0	<25.0 <100	<25.0 <100	<50.0 <200	NA*	<250
cis-1,2-Dichloroethene	50	<10.0	<40.0	<10.0	<50.0	<50.0	<50.0	<50.0	<25.0	<10.0	5.8	<10.0	8.8	1.8	89.7	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	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 Dibromochloromethane	NL 10	<40.0 <10.0	<200 <200	<50.0 <50.0	<200 <50.0	<200 <50.0	<200 <50.0	<200 <50.0	<100 <25.0	<40.0 <10.0	<4.0 <1.0	<40.0 <10.0	<8.0 <2.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<20.0 <5.0	<20.0 <5.0	<4.0 <1.0	<100 <25.0	<100 <25.0	<200 <50.0	NA* NA*	<1000 <250
Dibromomethane	NL	<40.0	<40.0	<10.0	<200	<200	<200	<200	<100	<40.0	<4.0	<40.0	<8.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<20.0	<20.0	<4.0	<25.0	<25.0	<50.0	NA*	<250
Dichlorodifluoromethane Dichlorofluoromethane	1000 NL	<10.0 <10.0	<40.0 <40.0	<10.0 <10.0	<50.0 <50.0	<50.0 <50.0	<50.0 <50.0	<50.0 <50.0	<25.0 <25.0	<10.0 <10.0	<1.0 <1.0	<10.0 <10.0	<2.0 <2.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<5.0 <5.0	<5.0 <5.0	<1.0 <1.0	<25.0 <25.0	<25.0 <25.0	<50.0 <50.0	NA* NA*	<250 <250
Diethyl ether (Ethyl ether)	1000	<40.0	<200	<50.0	<200	<200	<200	<200	<100	<40.0	<4.0	<40.0	<8.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<20.0	<20.0	<4.0	<100	<100	<200	NA*	<1000
Ethylbenzene Hexachloro-1,3-butadiene	700 1	<10.0 <40.0	<40.0 <200	<10.0 <50.0	<50.0 <50.0	<50.0 <50.0	<50.0 <50.0	<50.0 <50.0	<25.0 <25.0	<10.0 <10.0	<1.0 <1.0	<10.0 <10.0	<2.0 <2.0	<1.0 <1.0	<1.0 <5.0	<1.0 <5.0	<1.0 <5.0	<1.0 <5.0	<1.0 <5.0	<1.0 <5.0	<1.0 <5.0	<1.0 <5.0	<1.0 <5.0	<1.0 <4.0	<5.0 <20.0	<5.0 <20.0	<1.0 <4.0	<25.0 <100	<25.0 <100	<50.0 <200	NA* NA*	<250 <1000
Isopropylbenzene (Cumene)	300	<10.0	<40.0	<10.0	<50.0	<50.0	<50.0	<50.0	<25.0	<10.0	<1.0	<10.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<5.0	<1.0	<25.0	<25.0	<50.0	NA*	<250
m&p-Xylene	NL 5	NA -40.0	NA <40.0	NA <10.0	NA -200	NA <200	NA ~200	NA -200	NA ~100	NA <40.0	NA ~1.0	NA -40.0	NA -8.0	NA <1.0	NA <1.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<10.0	<10.0	<2.0	<50.0 <100	<50.0	<100	NA* NA*	<500 <1000
Methylene Chloride Methyl-tert-butyl ether	5 70	<40.0 <10.0	<40.0 <40.0	<10.0 <10.0	<200 <50.0	<200 <50.0	<200 <50.0	<200 <50.0	<100 <25.0	<40.0 <10.0	<4.0 <1.0	<40.0 <10.0	<8.0 <2.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<20.0 <5.0	<20.0 <5.0	<4.0 <1.0	<100 <25.0	<100 <25.0	<200 <50.0	NA*	<1000 <250
Naphthalene	300	<40.0	<200	<50.0	<200	<200	<200	<200	<100	<40.0	<4.0	<40.0	<8.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<20.0	<20.0	<4.0	<100	<100	<200	NA*	<1000
n-Butylbenzene n-Propylbenzene	NL NL	<10.0 <10.0	<40.0 <40.0	<10.0 <10.0	<50.0 <50.0	<50.0 <50.0	<50.0 <50.0	<50.0 <50.0	<25.0 <25.0	<10.0 <10.0	<1.0 <1.0	<10.0 <10.0	<2.0 <2.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<5.0 <5.0	<5.0 <5.0	<1.0 <1.0	<25.0 <25.0	<25.0 <25.0	<50.0 <50.0	NA* NA*	<250 <250
o-Xylene	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<5.0	<1.0	<25.0	<25.0	<50.0	NA*	<250
p-Isopropyltoluene sec-Butylbenzene	NL NL	<10.0 <10.0	<40.0 <200	<10.0 <50.0	<50.0 <50.0	<50.0 <50.0	<50.0 <50.0	<50.0 <50.0	<25.0 <25.0	<10.0 <10.0	<1.0 <1.0	<10.0 <10.0	<2.0 <2.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<5.0 <5.0	<5.0 <5.0	<1.0 <1.0	<25.0 <25.0	<25.0 <25.0	<50.0 <50.0	NA* NA*	<250 <250
Styrene	NL	<10.0	<40.0	<10.0	<50.0	<50.0	<50.0	<50.0	<25.0	<10.0	<1.0	<10.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<5.0	<1.0	<25.0	<25.0	<50.0	NA*	<250
tert-Butylbenzene Tetrachloroethene	NL 5	<10.0 889	<40.0 2970	<10.0 1270	<50.0 5490	<50.0 6700	<50.0 4660	<50.0 4690	<25.0 4180	<10.0 5620	<1.0 1550	<10.0 2400	<2.0 1270	<1.0 265	<1.0 9840	<1.0 171	<1.0 505	<1.0 82.2	<1.0 38.8	<1.0 26.4	<1.0 99.2	<1.0 309	<1.0 185	<1.0 101	<5.0 1190	<5.0 965	<1.0 1,700	<25.0 2.610	<25.0 3,330	<50.0 6,820	NA* 161,000	<250 157,000
Tetrahydrofuran	100	<100	<200	<50.0	<500	<500	<500	<500	<250	<100	<10.0	<100	<20.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<50.0	<50.0	<10.0	<250	<250	<500	NA*	<2500
Toluene	1000	<10.0	<40.0	<10.0	<50.0	<50.0	<50.0	<50.0	<25.0	<10.0	<1.0	<10.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<5.0	<1.0	<25.0	<25.0	<50.0	NA*	<250
trans-1,2-Dichloroethene trans-1,3-Dichloropropene	100 NL	<10.0 <40.0	<40.0 <800	<10.0 <200	<50.0 <200	<50.0 <200	<50.0 <200	<50.0 <200	<25.0 <100	<10.0 <40.0	<1.0 <4.0	<10.0 <40.0	<2.0 <8.0	<1.0 <4.0	<1.0 <4.0	<1.0 <4.0	<1.0 <4.0	<1.0 <4.0	<1.0 <4.0	<1.0 <4.0	<4.0 <4.0	<4.0 <4.0	<4.0 <4.0	<1.0 <4.0	<5.0 <20.0	<5.0 <20.0	<1.0 <4.0	<25.0 <100	<25.0 <100	<50.0 <200	<2000 NA*	<250 <1000
Trichloroethene	5	<4.0	<40.0	<10.0	<20.0	<20.0	<20.0	<20.0	<10.0	5.4	2.9	<4.0	3.1	0.84	25.9	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<5.0	2.3	<25.0	<25.0	<50.0	<2000	563
Trichlorofluoromethane Vinyl chloride	2000 0.2	<10.0 <4.0	<40.0 <40.0	<10.0 <10.0	<50.0 <20.0	<50.0 <20.0	<50.0 <20.0	<50.0 <20.0	<25.0 <10.0	<10.0 <4.0	<1.0 <1.0	<10.0 <4.0	<2.0 <0.80	<1.0 <0.40	<1.0 <0.40	<1.0 <0.40	<1.0 <0.40	<1.0 <0.40	<1.0 <0.40	<1.0 <0.40	<1.0 <0.40	<1.0 <0.40	<1.0 <0.40	<1.0 <0.40	<5.0 <2.0	<5.0 <2.0	<1.0 <0.40	<25.0 <10.0	<25.0 <10.0	<50.0 <20.0	NA* <800	<250 <100
Xylene (Total)	10000	<4.0 <30.0	<40.0 <120	<10.0 <30.0	<20.0 <150	<20.0 <150	<20.0 <150	<20.0 <150	<10.0 <75.0	<4.0 <30.0	<1.0 <3.0	<4.0 <30.0	<0.80 <6.0	<0.40 <3.0	<0.40 <3.0	<0.40 <3.0	<0.40 <3.0	<0.40 <3.0	<0.40 <3.0	<0.40 <3.0	<0.40 <3.0	<0.40 <3.0	<0.40 <3.0	<0.40 <3.0	<2.0 <15.0	<2.0 <15.0	<0.40 <3.0	<75.0	<75.0	<20.0 <150	<800 NA*	<750
Notes:					_			•		•													•		_	_	•	•	_	_	•	

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

221 1st Avenue SW Rochester, Minnesota

Sample ID	MDH Health	DPE-2	DPE-2	DPE-2	DPE-2	DPE-2	DPE-2	DPE-2	DPE-2	DPE-2	DPE-2	DPE-2	DPE-2	DPE-2	DPE-2	DPE-2	DPE-2	DPE-2	DPE-2	DPE-2	DPE-2	DPE-2	DPE-2	DPE-2	DPE-2	DPE-2	DPE-2	DPE-2	DPE-2	DPE-2	DPE-2
Collected Date and Time	Risk Limits			01/11/16			06/15/15		11/19/14		05/20/14		12/10/13	08/26/13					05/17/12	02/16/12	11/21/11		05/19/11	03/01/11				02/22/10	11/17/2009		12/10/08
	5/09																														NA*
1,1,1,2-Tetrachloroethane 1,1,1-Trichloroethane	70 9000	<40.0 <10.0	<40.0 <40.0	<10.0 <10.0	<50.0 <50.0	<50.0 <50.0	<10.0 <10.0	<10.0 <10.0	<25.0 <25.0	<100 <100	<1.0 1.6	<20.0 <20.0	<2.0 <2.0	<1.0 <1.0	1.3 4.1	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<2.0 <2.0	<5.0 <5.0	<10.0 <10.0	<10.0 <10.0	<1.0 <1.0	<25.0 <25.0	<50.0 <50.0	<50.0 <50.0	<1.0 2.9	<20.0 <20.0	<100 <100	<250 <250	NA*
1,1,2,2-Tetrachloroethane	2	<10.0	<40.0	<10.0	<50.0	<50.0	<10.0	<10.0	<25.0	<100	<1.0	<20.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<5.0	<10.0	<10.0	<1.0	<25.0	<50.0	<50.0	<1.0	<20.0	<100	<250	NA*
1,1,2-Trichloroethane	3	<10.0	<40.0	<10.0	<50.0	<50.0	<10.0	<10.0	<25.0 384	<100	<1.0	<20.0	<2.0	<1.0	1.3	<1.0	<1.0	<1.0	<2.0	<5.0	<10.0	<10.0	<1.0	<25.0	<50.0	<50.0	<1.0	<20.0	<100	<250	NA* NA*
1,1,2-Trichlorotrifluoroethane 1,1-Dichloroethane	200000 70	104 <10.0	<200 <40.0	72.1 <10.0	426 <50.0	364 <50.0	251 <10.0	69.6 <10.0	<25.0	302 <100	328 <1.0	41.8 <20.0	87.9 <2.0	25.6 <1.0	136 <1.0	16.0 <1.0	43.5 <1.0	3.1 <1.0	23.8 <2.0	41.5 <5.0	110 <10.0	212 <10.0	199 <1.0	<25.0 <25.0	356 <50.0	997 <50.0	673 <1.0	305 <20.0	1,270 <100	1,620 <250	NA*
1,1-Dichloroethene	6	<10.0	<40.0	<10.0	<50.0	<50.0	<10.0	<10.0	<25.0	<100	1.4	<20.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<5.0	<10.0	<10.0	<1.0	<25.0	<50.0	<50.0	<1.0	<20.0	<100	<250	<500
1,1-Dichloropropene	NL	<10.0	<40.0	<10.0	<50.0	<50.0	<10.0	<10.0	<25.0	<100	<1.0	<20.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<5.0	<10.0	<10.0	<1.0	<25.0	<50.0	<50.0	<1.0	<20.0	<100	<250	NA*
1,2,3-Trichlorobenzene 1,2,3-Trichloropropane	NL 40	<10.0 <40.0	<200 <40.0	<50.0 <10.0	<50.0 <200	<50.0 <200	<10.0 <40.0	<10.0 <40.0	<25.0 <100	<100 <400	<1.0 <4.0	<20.0 <80.0	<2.0 <8.0	<1.0 <4.0	<1.0 <4.0	<1.0 <4.0	<1.0 <4.0	<1.0 <4.0	<2.0 <8.0	<5.0 <20.0	<10.0 <40.0	<10.0 <40.0	<1.0 <4.0	<25.0 <100	<50.0 <50.0	<50.0 <50.0	<1.0 <1.0	<20.0 <20.0	<100 <100	<250 <250	NA* NA*
1,2,4-Trichlorobenzene	NL	<10.0	<200	<50.0	<50.0	<50.0	<10.0	<10.0	<25.0	<100	<1.0	<20.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<5.0	<10.0	<10.0	<1.0	<25.0	<50.0	<50.0	<1.0	<20.0	<100	<250	NA*
1,2,4-Trimethylbenzene	NL	16	<40.0	<10.0	<50.0	<50.0	<10.0	<10.0	<25.0	<100	<1.0	<20.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<5.0	<10.0	<10.0	<1.0	<25.0	<50.0	<50.0	<1.0	<20.0	<100	<250	NA*
1,2-Dibromo-3-chloropropane 1,2-Dibromoethane (EDB)	NL .004	<100 <10.0	<200 <40.0	<50.0 <10.0	<200 <50.0	<200 <50.0	<100 <10.0	<40.0 <10.0	<100 <25.0	<400 <100	<4.0 <1.0	<80.0 <20.0	<8.0 <2.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<8.0 <2.0	<20.0 <5.0	<40.0 <10.0	<40.0 <10.0	<4.0 <1.0	<100 <25.0	<200 <50.0	<200 <50.0	<4.0 <1.0	<80.0 <20.0	<400 <100	<1000 <250	NA* NA*
1,2-Dichlorobenzene	600	<10.0	<40.0	<10.0	<50.0	<50.0	<10.0	<10.0	<25.0	<100	<1.0	<20.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<5.0	<10.0	<10.0	<1.0	<25.0	<50.0	<50.0	<1.0	<20.0	<100	<250	NA*
1,2-Dichloroethane	4	<10.0	<40.0	<10.0	<50.0	<50.0	<10.0	<10.0	<25.0	<100	<1.0	<20.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<5.0	<10.0	<10.0	<1.0	<25.0	<50.0	<50.0	<1.0	<20.0	<100	<250	NA*
1,2-Dichloropropane 1,3,5-Trimethylbenzene	5	<40.0 11.2	<40.0 <40.0	<10.0	<200 <50.0	<200 <50.0	<40.0 <10.0	<40.0 <10.0	<100	<400	<4.0	<80.0	<8.0 <2.0	<4.0 <1.0	<4.0	<4.0	<4.0	<4.0	<8.0	<20.0	<40.0 <10.0	<40.0	<4.0	<25.0	<50.0 <50.0	<50.0 <50.0	1.3 <1.0	<20.0 <20.0	<100	<250 <250	NA* NA*
1,3-Dichlorobenzene	100 NL	<10.0	<40.0 <40.0	<10.0 <10.0	<50.0 <50.0	<50.0 <50.0	<10.0	<10.0	<25.0 <25.0	<100 <100	<1.0 <1.0	<20.0 <20.0	<2.0 <2.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<2.0 <2.0	<5.0 <5.0	<10.0	<10.0 <10.0	<1.0 <1.0	<25.0 <25.0	<50.0 <50.0	<50.0 <50.0	<1.0 <1.0	<20.0 <20.0	<100 <100	<250 <250	NA*
1,3-Dichloropropane	NL	<10.0	<40.0	<10.0	<50.0	<50.0	<10.0	<10.0	<25.0	<100	<1.0	<20.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<5.0	<10.0	<10.0	<1.0	<25.0	<50.0	<50.0	<1.0	<20.0	<100	<250	NA*
1,4-Dichlorobenzene	10	<10.0	<40.0	<10.0	<50.0	<50.0	<10.0	<10.0	<25.0	<100	<1.0	<20.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<5.0	<10.0	<10.0	<1.0	<25.0	<50.0	<50.0	<1.0	<20.0	<100	<250	NA*
2,2-Dichloropropane 2-Butanone (MEK)	NL 4000	<40.0 <50.0	<40.0 <800	<10.0 <200	<200 <250	<200 <250	<40.0 <50.0	<40.0 <50.0	<100 <125	<400 <500	<4.0 <5.0	<80.0 <100	<8.0 <10.0	<4.0 <5.0	<4.0 <5.0	<4.0 <4.0	<4.0 <4.0	<4.0 <4.0	<8.0 <8.0	<20.0 <20.0	<40.0 <40.0	<40.0 <40.0	<4.0 <4.0	<100 <100	<200 <200	<200 <200	<4.0 <4.0	<20.0 <80.0	<400 <400	<250 <1000	NA* NA*
2-Chlorotoluene	NL	<10.0	<40.0	<10.0	<50.0	<50.0	<10.0	<10.0	<25.0	<100	<1.0	<20.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<5.0	<10.0	<10.0	<1.0	<25.0	<50.0	<50.0	<1.0	<20.0	<100	<250	NA*
4-Chlorotoluene	NL	<10.0	<40.0	<10.0	<50.0	<50.0	<10.0	<10.0	<25.0	<100	<1.0	<20.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<5.0	<10.0	<10.0	<1.0	<25.0	<50.0	<50.0	<1.0	<20.0	<100	<250	NA*
4-Methyl-2-pentanone (MIBK) Acetone	300 700	<50.0 <200	<800 <800	<200 <200	<250 <1000	<250 <1000	<50.0 <500	<50.0 <200	<125 <500	<500 <2000	<5.0 <20.0	<100 <400	<10.0 <40.0	<5.0 <20.0	<5.0 <20.0	<4.0 <25.0	<4.0 <25.0	<4.0 <25.0	<8.0 <50.0	<20.0 <125	<40.0 <250	<40.0 <250	<4.0 <25.0	<100 <625	<200 <500	<200 <500	<4.0 <10.0	<80.0 <200	<400 <1000	<1000 <2500	NA* NA*
Allyl chloride	30	<40.0	<200	<50.0	<200	<200	<40.0	<40.0	<100	<400	<4.0	<80.0	<8.0	<4.0	<4.0	<4.0	<4.0	<4.0	<8.0	<20.0	<40.0	<40.0	<4.0	<100	<200	<200	<4.0	<80.0	<400	<1000	NA*
Benzene	2	<10.0	<40.0	<10.0	<50.0	<50.0	<10.0	<10.0	<25.0	<100	<1.0	<20.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<5.0	<10.0	<10.0	<1.0	<25.0	<50.0	<50.0	<1.0	<20.0	<100	<250	NA*
Bromobenzene	NL NI	<10.0	<40.0	<10.0	<50.0 <50.0	<50.0 <50.0	<10.0 <10.0	<10.0 <10.0	<25.0 <25.0	<100 <100	<1.0	<20.0 <20.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<5.0	<10.0	<10.0 <10.0	<1.0	<25.0 <25.0	<50.0 <50.0	<50.0 <50.0	<1.0	<20.0 <20.0	<100 <100	<250 <250	NA* NA*
Bromochloromethane Bromodichloromethane	NL 6	<10.0 <10.0	<40.0 <40.0	<10.0 <10.0	<50.0	<50.0 <50.0	<10.0	<10.0	<25.0	<100	<1.0 <1.0	<20.0	<2.0 <2.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<2.0 <2.0	<5.0 <5.0	<10.0 <10.0	<10.0	<1.0 <1.0	<25.0	<50.0	<50.0 <50.0	<1.0 <1.0	<20.0	<100	<250	NA*
Bromoform	40	<40.0	<200	<50.0	<200	<200	<40.0	<40.0	<100	<400	<4.0	<80.0	<8.0	<4.0	<4.0	<4.0	<4.0	<4.0	<8.0	<20.0	<40.0	<40.0	<4.0	<200	<400	<400	<8.0	<160	<800	<2000	NA*
Bromomethane	10 3	<40.0 <10.0	<200 <40.0	<50.0 <10.0	<200 <50.0	<200 <50.0	<40.0 <10.0	<40.0 <10.0	<100 <25.0	<400	<4.0	<80.0 <20.0	<8.0 <2.0	<4.0	<4.0 <1.0	<4.0	<4.0 <1.0	<4.0	<8.0 <2.0	<20.0	<40.0 <10.0	<40.0 <10.0	<4.0 <1.0	<250 <100	<200 <200	<200 <200	<4.0 <4.0	<80.0 <20.0	<400 <400	<1000 <250	NA* NA*
Carbon tetrachloride Chlorobenzene	100	<10.0	<40.0	<10.0	<50.0	<50.0 <50.0	<10.0	<10.0	<25.0	<100 <100	<1.0 <1.0	<20.0	<2.0	<1.0 <1.0	<1.0	<1.0 <1.0	<1.0	<1.0 <1.0	<2.0	<5.0 <5.0	<10.0	<10.0	<1.0	<25.0	<50.0	<50.0	<1.0	<20.0	<100	<250	NA*
Chloroethane	300	<10.0	<40.0	<10.0	<50.0	<50.0	<10.0	<10.0	<25.0	<400	<1.0	<20.0	<2.0	<1.0	<4.0	<1.0	<1.0	<1.0	<2.0	<5.0	<10.0	<10.0	<1.0	<25.0	<50.0	<50.0	<1.0	<20.0	<100	<250	NA*
Chloroform	30	<10.0	<200	<50.0	<50.0	<50.0	<10.0	<10.0	<25.0	<100	<1.0	<20.0	<2.0	<1.0	3.8	<1.0	<1.0	<1.0	<2.0	<5.0	<10.0	<10.0	3.1	<25.0	<50.0	<50.0	3.7	<20.0	<100	<250	NA*
Chloromethane cis-1,2-Dichloroethene	NL 50	<40.0 <10.0	<40.0 <40.0	<10.0 <10.0	<200 <50.0	<200 <50.0	<40.0 18.4	<40.0 11.4	<100 <25.0	<400 <100	<4.0 11.0	<80.0 <20.0	<8.0 2.5	<4.0 <1.0	<4.0 67.8	<4.0 <1.0	<4.0 1.8	<4.0 <1.0	<8.0 <2.0	<20.0 <5.0	<40.0 <10.0	<40.0 <10.0	<4.0 5.5	<100 <25.0	<200 <50.0	<200 <50.0	<4.0 25.8	<80.0 <20.0	<400 <100	<1000 <250	NA* <500
cis-1,3-Dichloropropene	NL	<40.0	<200	<50.0	<200	<200	<40.0	<40.0	<100	<400	<4.0	<80.0	<8.0	<4.0	<4.0	<4.0	<4.0	<4.0	<8.0	<20.0	<40.0	<40.0	<4.0	<100	<200	<200	<4.0	<80.0	<400	<1000	NA*
Dibromochloromethane	10	<10.0	<200	<50.0	<50.0	<50.0	<10.0	<10.0	<25.0	<100	<1.0	<20.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<5.0	<10.0	<10.0	<1.0	<25.0	<50.0	<50.0	<1.0	<20.0	<100	<250	NA*
Dibromomethane Dichlorodifluoromethane	NL 1000	<40.0 <10.0	<40.0 <40.0	<10.0 <10.0	<200 <50.0	<200 <50.0	<40.0 <10.0	<40.0 <10.0	<100 <25.0	<400 <100	<4.0 <1.0	<80.0 <20.0	<8.0 <2.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<8.0 <2.0	<20.0 <5.0	<40.0 <10.0	<40.0 <10.0	<4.0 <1.0	<100 <25.0	<200 <50.0	<200 <50.0	<4.0 <1.0	<20.0 <20.0	<100 <100	<250 <250	NA* NA*
Dichlorofluoromethane	NL	<10.0	<40.0	<10.0	<50.0	<50.0	<10.0	<10.0	<25.0	<100	<1.0	<20.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<5.0	<10.0	<10.0	<1.0	<25.0	<50.0	<50.0	<1.0	<20.0	<100	<250	NA*
Diethyl ether (Ethyl ether)	1000	<40.0	<200	<50.0	<200	<200	<40.0	<40.0	<100	<400	<4.0	<80.0	<8.0	<4.0	<4.0	<4.0	<4.0	<4.0	<8.0	<20.0	<40.0	<40.0	<4.0	<100	<200	<200	<4.0	<80.0	<400	<1000	NA*
Ethylbenzene Hexachloro-1,3-butadiene	700 1	<10.0 <40.0	<40.0 <200	<10.0 <50.0	<50.0 <50.0	<50.0 <50.0	<10.0	<10.0	<25.0 <25.0	<100 <100	<1.0 <1.0	<20.0 <20.0	<2.0 <2.0	<1.0 <1.0	<1.0 <5.0	<1.0 <5.0	<1.0 <5.0	<1.0 <5.0	<2.0 <10.0	<5.0 <25.0	<10.0 <50.0	<10.0 <50.0	<1.0 <5.0	<25.0 <100	<50.0 <200	<50.0 <200	<1.0 <4.0	<20.0 <80.0	<100 <400	<250 <1000	NA* NA*
Isopropylbenzene (Cumene)	300	<10.0	<40.0	<10.0	<50.0	<50.0 <50.0	<10.0	<10.0	<25.0	<100	<1.0	<20.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<5.0	<10.0	<10.0	<1.0	<25.0	<50.0	<50.0	<1.0	<20.0	<100	<250	NA*
m&p-Xylene	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<2.0	<2.0	<2.0	<4.0	<10.0	<20.0	<20.0	<2.0	<50.0	<100	<100	<2.0	<40.0	<200	<500	NA*
Methylene Chloride	5	<40.0	<40.0	<10.0	<200	<200	<40.0	<40.0	<100	<400	<4.0	<80.0	<8.0	<4.0	<4.0	<4.0	<4.0	<4.0	<8.0	<20.0	<40.0	<40.0	<4.0	<100	<200	<200	<4.0	<80.0	<400	<1000	NA*
Methyl-tert-butyl ether Naphthalene	70 300	<10.0 <40.0	<40.0 <200	<10.0 <50.0	<50.0 <200	<50.0 <200	<10.0 <40.0	<10.0 <40.0	<25.0 <100	<100 <400	<1.0 <4.0	<20.0 <80.0	<2.0 <8.0	<1.0 <4.0	<1.0 <4.0	<1.0 <4.0	<1.0 <4.0	<1.0 <4.0	<2.0 <8.0	<5.0 <20.0	<10.0 <40.0	<10.0 <40.0	<1.0 <4.0	<25.0 <100	<50.0 <200	<50.0 <200	<1.0 <4.0	<20.0 <80.0	<100 <400	<250 <1000	NA* NA*
n-Butylbenzene	NL	<10.0	<40.0	<10.0	<50.0	<50.0	<10.0	<10.0	<25.0	<100	<1.0	<20.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<5.0	<10.0	<10.0	<1.0	<25.0	<50.0	<50.0	<1.0	<20.0	<100	<250	NA*
n-Propylbenzene	NL	<10.0	<40.0	<10.0	<50.0	<50.0	<10.0	<10.0	<25.0	<100	<1.0	<20.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<5.0	<10.0	<10.0	<1.0	<25.0	<50.0	<50.0	<1.0	<20.0	<100	<250	NA*
o-Xylene p-Isopropyltoluene	NL NL	NA <10.0	NA <40.0	NA <10.0	NA <50.0	NA <50.0	NA <10.0	NA <10.0	NA <25.0	NA <100	NA <1.0	NA <20.0	NA <2.0	NA <1.0	NA <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<2.0 <2.0	<5.0 <5.0	<10.0 <10.0	<10.0 <10.0	<1.0 <1.0	<25.0 <25.0	<50.0 <50.0	<50.0 <50.0	<1.0 <1.0	<20.0 <20.0	<100 <100	<250 <250	NA* NA*
sec-Butylbenzene	NL NL	<10.0	<200	<50.0	<50.0	<50.0	<10.0	<10.0	<25.0	<100	<1.0	<20.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<5.0	<10.0	<10.0	<1.0	<25.0	<50.0	<50.0	<1.0	<20.0	<100	<250	NA*
Styrene	NL	<10.0	<40.0	<10.0	<50.0	<50.0	<10.0	<10.0	<25.0	<100	<1.0	<20.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<5.0	<10.0	<10.0	<1.0	<25.0	<50.0	<50.0	<1.0	<20.0	<100	<250	NA*
tert-Butylbenzene	NL E	<10.0	<40.0	<10.0	<50.0	<50.0	<10.0	<10.0	<25.0	<100	<1.0	<20.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<5.0	<10.0	<10.0	<1.0	<25.0	<50.0 4,690	<50.0	<1.0 5,800	<20.0	<100	<250	NA*
Tetrachloroethene Tetrahydrofuran	5 100	1260 <100	4230 <200	1280 <50.0	7,680 <500	10300 <500	5130 <100	1100 <100	6200 <250	7330 <1000	6800 <10.0	1840 <200	1720 <20.0	184 <10.0	7100 <10.0	140 <10.0	746 <10.0	39.0 <10.0	206 <20.0	511 <50.0	890 <100	2080 <100	1680 <10.0	2,990 <250	<500	12,100 <500	<10.0	2,710 <200	10,600 <1000	32,000 <2500	38,200 NA*
Toluene	1000	<10.0	<40.0	<10.0	<50.0	<50.0	<10.0	<10.0	<25.0	<100	<1.0	<20.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<5.0	<10.0	<10.0	<1.0	<25.0	<50.0	<50.0	<1.0	<20.0	<100	<250	NA*
trans-1,2-Dichloroethene	100	<10.0	<40.0	<10.0	<50.0	<50.0	<10.0	<10.0	<25.0	<100	<1.0	<20.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<5.0	<40.0	<40.0	<4.0	<25.0	<50.0	<50.0	<1.0	<20.0	<100	<250	<500
trans-1,3-Dichloropropene	NL 5	<40.0	<800 <40.0	<200	<200	<200	<40.0	<40.0	<100	<400	<4.0 6.1	<80.0	<8.0 1.5	<4.0 0.45	<4.0 12.7	<4.0	<4.0 1.6	<4.0	<8.0	<20.0	<40.0	<40.0	<4.0 2.2	<100 <25.0	<200 <50.0	<200 <50.0	<4.0 7.5	<80.0	<400 <100	<1000	NA*
Trichloroethene Trichlorofluoromethane	2000	<4.0 <10.0	<40.0 <40.0	<10.0 <10.0	<20.0 <50.0	<20.0 <50.0	<4.0 <10.0	<4.0 <10.0	<10.0 <25.0	<40.0 <100	<1.0	<8.0 <20.0	<2.0	<1.0	<1.0	<1.0 <1.0	<1.0	<1.0 <1.0	<2.0 <2.0	<5.0 <5.0	<10.0 <10.0	<10.0 <10.0	<1.0	<25.0 <25.0	<50.0 <50.0	<50.0 <50.0	<1.0	<20.0 <20.0	<100 <100	<250 <250	<500 NA*
Vinyl chloride	0.2	<4.0	<40.0	<10.0	<20.0	<20.0	<4.0	<4.0	<10.0	<40.0	<1.0	<8.0	<0.80	<0.40	<0.40	<0.40	<0.40	<0.40	<0.80	<2.0	<4.0	<4.0	<0.40	<10.0	<20.0	<20.0	<0.40	<8.0	<40.0	<100	<200
Xylene (Total)	10000	<30.0	<120	<30.0	<30.0	<30.0	<30.0	<30.0	<75.0	<300	<3.0	<60.0	<6.0	<3.0	<3.0	<3.0	<3.0	<3.0	<6.0	<15.0	<30.0	<30.0	<3.0	<75.0	<150	<150	<3.0	<60.0	<300	<750	NA*

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

221 1st Avenue SW Rochester, Minnesota

Sample ID	MDH Health	DPE-3	DPE-3	DPE-3	DPE-3	DPE-3	DPE-3	DPE-3	DPE-3	DPE-3	DPE-3	DPE-3	DPE-3	DPE-3	DPE-3	DPE-3	DPE-3	DPE-3	DPE-3	DPE-3	DPE-3	DPE-3	DPE-3	DPE-3	DPE-3	DPE-3	DPE-3	DPE-3	DPE-3	DPE-3	DPE-3
Collected Date and Time	Risk Limits					08/18/15		02/25/15		08/21/14	05/20/14		12/10/13	08/26/13		02/25/13			05/17/12			08/28/11	05/19/11				05/13/10				12/10/08
1,1,1,2-Tetrachloroethane	5/09 70	<80.0	<200	<10.0	<200	<200	<200	<100	<50.0	<100	5.5	<100	<50.0	<50.0	4.9	<1.0	<1.0	<1.0	<20.0	<10.0	<25.0	<25.0	<20.0	<10.0	<10.0	<20.0	<1.0	<10.0	<200	<200	NA*
1,1,1-Trichloroethane	9000	<20.0	<200	<10.0	<200	<200	<200	<100	<50.0	<100	33.7	<100	<50.0	<50.0	38.7	<1.0	4.2	<1.0	<20.0	<10.0	<25.0	<25.0	<20.0	<10.0	<10.0	<20.0	<1.0	<10.0	<200	<200	NA*
1,1,2,2-Tetrachloroethane 1,1,2-Trichloroethane	2	<20.0 <20.0	<200 <200	<10.0 <10.0	<200 <200	<200 <200	<200 <200	<100 <100	<50.0 <50.0	<100 <100	<1.0 <1.0	<100 <100	<50.0 <50.0	<50.0 <50.0	<2.0 2.1	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<20.0 <20.0	<10.0 <10.0	<25.0 <25.0	<25.0 <25.0	<20.0 <20.0	<10.0 <10.0	<10.0 <10.0	<20.0 <20.0	<1.0 <1.0	<10.0 <10.0	<200 <200	<200 <200	NA* NA*
1,1,2-Trichlorotrifluoroethane	200000	64.9	<1000	105	2890	2560	2110	2800	3370	2040	3650	1330	664	686	6020	15.8	232	2.7	414	251	787	348	343	1030	78.8	2,260	49.5	67.1	1,920	843	NA*
1,1-Dichloroethane	70	<20.0	<200	<10.0	<200	<200	<200	<100	<50.0	<100	1.0	<100	<50.0	<50.0	<2.0	<1.0	<1.0	<1.0	<20.0	<10.0	<25.0	<25.0	<20.0	<10.0	<10.0	<20.0	<1.0	<10.0	<200	<200	NA*
1,1-Dichloroethene 1,1-Dichloropropene	6 NL	<20.0 <20.0	<200 <200	<10.0 <10.0	<200 <200	<200 <200	<200 <200	<100 <100	<50.0 <50.0	<100 <100	13.5 <1.0	<100 <100	<50.0 <50.0	<50.0 <50.0	2.0 <2.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<20.0 <20.0	<10.0 <10.0	<25.0 <25.0	<25.0 <25.0	<20.0 <20.0	<10.0 <10.0	<10.0 <10.0	<20.0 <20.0	<1.0 <1.0	<10.0 <10.0	<200 <200	<200 <200	<500 NA*
1,2,3-Trichlorobenzene	NL	<20.0	<1000	<50.0	<200	<200	<200	<100	<50.0	<100	<1.0	<100	<50.0	<50.0	<2.0	<1.0	<1.0	<1.0	<20.0	<10.0	<25.0	<25.0	<20.0	<10.0	<10.0	<20.0	<1.0	<10.0	<200	<200	NA*
1,2,3-Trichloropropane 1,2,4-Trichlorobenzene	40 NL	<80.0 <20.0	<200 <1000	<10.0 <50.0	<800 <200	<800 <200	<800 <200	<400 <100	<200 <50.0	<400	<4.0 <1.0	<400 <100	<200 <50.0	<200 <50.0	<8.0 <2.0	<4.0	<4.0 <1.0	<4.0 <1.0	<80.0 <20.0	<40.0 <10.0	<100 <25.0	<100 <25.0	<80.0 <20.0	<40.0 <10.0	<10.0 <10.0	<20.0 <20.0	<1.0 <1.0	<10.0 <10.0	<200 <200	<200 <200	NA* NA*
1,2,4-Trimethylbenzene	NL NL	<20.0	<200	<10.0	<200	<200	<200	<100	<50.0	<100 <100	<1.0	<100	<50.0	<50.0 <50.0	<2.0	<1.0 <1.0	<1.0	<1.0	<20.0	<10.0	<25.0	<25.0	<20.0	<10.0	<10.0	<20.0	<1.0	<10.0	<200	<200	NA*
1,2-Dibromo-3-chloropropane	NL	<200	<1000	<50.0	<800	<800	<2000	<400	<200	<400	<4.0	<400	<200	<200	<8.0	<4.0	<4.0	<4.0	<80.0	<40.0	<100	<100	<80.0	<40.0	<40.0	<80.0	<4.0	<40.0	<800	<800	NA*
1,2-Dibromoethane (EDB) 1,2-Dichlorobenzene	.004 600	<20.0 <20.0	<200 <200	<10.0 <10.0	<200 <200	<200 <200	<200 <200	<100 <100	<50.0 <50.0	<100 <100	<1.0 <1.0	<100 <100	<50.0 <50.0	<50.0 <50.0	<2.0 <2.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<20.0 <20.0	<10.0 <10.0	<25.0 <25.0	<25.0 <25.0	<20.0 <20.0	<10.0 <10.0	<10.0 <10.0	<20.0 <20.0	<1.0 <1.0	<10.0 <10.0	<200 <200	<200 <200	NA* NA*
1,2-Dichloroethane	4	<20.0	<200	<10.0	<200	<200	<200	<100	<50.0	<100	<1.0	<100	<50.0	<50.0	<2.0	<1.0	<1.0	<1.0	<20.0	<10.0	<25.0	<25.0	<20.0	<10.0	<10.0	<20.0	<1.0	<10.0	<200	<200	NA*
1,2-Dichloropropane	5	<80.0	<200	<10.0	<800	<800	<800	<400	<200	<400	11.3	<400	<200	<200	10.0	<4.0	<4.0	<4.0	<80.0	<40.0	<100	<100	<80.0	<10.0	<10.0	<20.0	<1.0	<10.0	<200	<200	NA*
1,3,5-Trimethylbenzene 1,3-Dichlorobenzene	100 NL	<20.0 <20.0	<200 <200	<10.0 <10.0	<200 <200	<200 <200	<200 <200	<100 <100	<50.0 <50.0	<100 <100	<1.0 <1.0	<100 <100	<50.0 <50.0	<50.0 <50.0	<2.0 <2.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<20.0 <20.0	<10.0 <10.0	<25.0 <25.0	<25.0 <25.0	<20.0 <20.0	<10.0 <10.0	<10.0 <10.0	<20.0 <20.0	<1.0 <1.0	<10.0 <10.0	<200 <200	<200 <200	NA* NA*
1,3-Dichloropropane	NL NL	<20.0	<200	<10.0	<200	<200	<200	<100	<50.0	<100	<1.0	<100	<50.0	<50.0	<2.0	<1.0	<1.0	<1.0	<20.0	<10.0	<25.0	<25.0	<20.0	<10.0	<10.0	<20.0	<1.0	<10.0	<200	<200	NA*
1,4-Dichlorobenzene	10	<20.0	<200	<10.0	<200	<200	<200	<100	<50.0	<100	<1.0	<100	<50.0	<50.0	<2.0	<1.0	<1.0	<1.0	<20.0	<10.0	<25.0	<25.0	<20.0	<10.0	<10.0	<20.0	<1.0	<10.0	<200	<200	NA*
2,2-Dichloropropane 2-Butanone (MEK)	NL 4000	<80.0 <100	<200 <4000	<10.0 <200	<800 <1000	<800 <1000	<800 <1000	<400 <500	<200 <250	<400 <500	<4.0 <5.0	<400 <500	<200 <250	<200 <250	<8.0 <10.0	<4.0 <4.0	<4.0 <4.0	<4.0 <4.0	<80.0 <80.0	<40.0 <40.0	<100 <100	<100 <100	<80.0 <80.0	<40.0 <40.0	<40.0 <40.0	<80.0 <80.0	<4.0 <4.0	<10.0 <40.0	<800 <800	<200 <800	NA* NA*
2-Chlorotoluene	NL	<20.0	<200	<10.0	<200	<200	<200	<100	<50.0	<100	2.3	<100	<50.0	<50.0	4.2	<1.0	<1.0	<1.0	<20.0	<10.0	<25.0	<25.0	<20.0	<10.0	<10.0	<20.0	<1.0	<10.0	<200	<200	NA*
4-Chlorotoluene	NL 200	<20.0	<200	<10.0	<200	<200	<200	<100	<50.0	<100	<1.0	<100	<50.0	<50.0	<2.0	<1.0	<1.0	<1.0	<20.0	<10.0	<25.0	<25.0	<20.0	<10.0	<10.0	<20.0	<1.0	<10.0	<200	<200	NA* NA*
4-Methyl-2-pentanone (MIBK) Acetone	300 700	<100 <400	<4000 <4000	<200 <200	<1000 <4000	<1000 <4000	<1000 <10000	<500 <2000	<250 <1000	<500 <2000	<5.0 <20.0	<500 <2000	<250 <1000	<250 <1000	<10.0 <40.0	<4.0 104	<4.0 <25.0	<4.0 <25.0	<80.0 <500	<40.0 <250	<100 <625	<100 <625	<80.0 <500	<40.0 <250	<40.0 <100	<80.0 <200	<4.0 <10.0	<40.0 <100	<800 <2000	<800 <2000	NA*
Allyl chloride	30	<80.0	<1000	<50.0	<800	<800	<800	<400	<200	<400	<4.0	<400	<200	<200	<8.0	<4.0	<4.0	<4.0	<80.0	<40.0	<100	<100	<80.0	<40.0	<40.0	<80.0	<4.0	<40.0	<800	<800	NA*
Benzene	2 NL	<20.0 <20.0	<200 <200	<10.0 <10.0	<200 <200	<200 <200	<200 <200	<100 <100	<50.0 <50.0	<100 <100	<1.0	<100 <100	<50.0 <50.0	<50.0 <50.0	<2.0 <2.0	<1.0	<1.0 <1.0	<1.0	<20.0 <20.0	<10.0 <10.0	<25.0 <25.0	<25.0 <25.0	<20.0 <20.0	<10.0 <10.0	<10.0 <10.0	<20.0 <20.0	<1.0	<10.0 <10.0	<200 <200	<200 <200	NA* NA*
Bromobenzene Bromochloromethane	NL NL	<20.0	<200	<10.0	<200	<200	<200	<100	<50.0 <50.0	<100	<1.0 <1.0	<100	<50.0	<50.0	<2.0	<1.0 <1.0	<1.0	<1.0 <1.0	<20.0	<10.0	<25.0	<25.0	<20.0	<10.0	<10.0	<20.0	<1.0 <1.0	<10.0	<200	<200	NA*
Bromodichloromethane	6	<20.0	<200	<10.0	<200	<200	<200	<100	<50.0	<100	<1.0	<100	<50.0	<50.0	<2.0	<1.0	<1.0	<1.0	<20.0	<10.0	<25.0	<25.0	<20.0	<10.0	<10.0	<20.0	<1.0	<10.0	<200	<200	NA*
Bromoform Bromomethane	40 10	<80.0 <80.0	<1000 <1000	<50.0 <50.0	<800 <800	<800 <800	<800 <800	<400 <400	<200 <200	<400 <400	<4.0 <4.0	<400 <400	<200 <200	<200 <200	<8.0 <8.0	<4.0 <4.0	<4.0 <4.0	<4.0 <4.0	<80.0 <80.0	<40.0 <40.0	<100 <100	<100 <100	<80.0 <80.0	<80.0 <40.0	<80.0 <40.0	<160 <80.0	<8.0 <4.0	<80.0 <40.0	<1600 <800	<1600 <800	NA* NA*
Carbon tetrachloride	3	<20.0	<200	<10.0	<200	<200	<200	<100	<50.0	<100	<1.0	<100	<50.0	<50.0	<2.0	<1.0	<1.0	<1.0	<20.0	<10.0	<25.0	<25.0	<20.0	<40.0	<40.0	<80.0	<4.0	<10.0	<800	<200	NA*
Chlorobenzene	100	<20.0	<200	<10.0	<200	<200	<200	<100	<50.0	<100	<1.0	<100	<50.0	<50.0	<2.0	<1.0	<1.0	<1.0	<20.0	<10.0	<25.0	<25.0	<20.0	<10.0	<10.0	<20.0	<1.0	<10.0	<200	<200	NA*
Chloroethane Chloroform	300 30	<20.0 <20.0	<200 <1000	<10.0 <50.0	<200 <200	<200 <200	<200 <200	<100 <100	<50.0 <50.0	<400 <100	<1.0 15.7	<100 <100	<50.0 <50.0	<50.0 <50.0	<8.0 14.6	<1.0 <1.0	<1.0 2.6	<1.0 <1.0	<20.0 <20.0	<10.0 <10.0	<25.0 <25.0	<25.0 <25.0	<20.0 <20.0	<10.0 <10.0	<10.0 <10.0	<20.0 <20.0	<1.0 <1.0	<10.0 <10.0	<200 <200	<200 <200	NA* NA*
Chloromethane	NL	<80.0	<200	<10.0	<800	<800	<800	<400	<200	<400	<4.0	<400	<200	272	<8.0	<4.0	<4.0	<4.0	<80.0	<40.0	<100	<100	<80.0	<40.0	<40.0	<80.0	<4.0	<40.0	<800	<800	NA*
cis-1,2-Dichloroethene	50	<20.0	<200	<10.0	<200	<200	<200	<100	50.2	<100	124	<100	<50.0	<50.0	90.2	<1.0	25.0	<1.0	<20.0	<10.0	<25.0	<25.0	<20.0	19.6	<10.0	59.2	2.6	<10.0	<200	<200	1,090
cis-1,3-Dichloropropene Dibromochloromethane	NL 10	<80.0 <20.0	<1000 <1000	<50.0 <50.0	<800 <200	<800 <200	<800 <200	<400 <100	<200 <50.0	<400 <100	<4.0 <1.0	<400 <100	<200 <50.0	<200 <50.0	<8.0 <2.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<80.0 <20.0	<40.0 <10.0	<100 <25.0	<100 <25.0	<80.0 <20.0	<40.0 <10.0	<40.0 <10.0	<80.0 <20.0	<4.0 <1.0	<40.0 <10.0	<800 <200	<800 <200	NA* NA*
Dibromomethane	NL	<80.0	<200	<10.0	<800	<800	<800	<400	<200	<400	<4.0	<400	<200	<200	<8.0	<4.0	<4.0	<4.0	<80.0	<40.0	<100	<100	<80.0	<40.0	<40.0	<80.0	<4.0	<10.0	<200	<200	NA*
Dichlorodifluoromethane Dichlorofluoromethane	1000 NL	<20.0 <20.0	<200 <200	<10.0 <10.0	<200 <200	<200 <200	<200 <200	<100 <100	<50.0 <50.0	<100 <100	<1.0 <1.0	<100 <100	<50.0 <50.0	<50.0 <50.0	<2.0 <2.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<20.0 <20.0	<10.0 <10.0	<25.0 <25.0	<25.0 <25.0	<20.0 <20.0	<10.0 <10.0	<10.0 <10.0	<20.0 <20.0	<1.0 <1.0	<10.0 <10.0	<200 <200	<200 <200	NA* NA*
Diethyl ether (Ethyl ether)	1000	<80.0	<1000	<50.0	<800	<800	<800	<400	<200	<400	<4.0	<400	<200	<200	<8.0	<4.0	<4.0	<4.0	<80.0	<40.0	<100	<100	<80.0	<40.0	<40.0	<80.0	<4.0	<40.0	<800	<800	NA*
Ethylbenzene	700	<20.0	<200	<10.0	<200	<200	<200	<100	<50.0	<100	<1.0	<100	<50.0	<50.0	<2.0	<1.0	<1.0	<1.0	<20.0	<10.0	<25.0	<25.0	<20.0	<10.0	<10.0	<20.0	<1.0	<10.0	<200	<200	NA*
Hexachloro-1,3-butadiene Isopropylbenzene (Cumene)	1 300	<80.0 <20.0	<1000 <200	<50.0 <10.0	<200 <200	<200 <200	<200 <200	<100 <100	<50.0 <50.0	<100 <100	<1.0 <1.0	<100 <100	<50.0 <50.0	<50.0 <50.0	<10.0 <2.0	<5.0 <1.0	<5.0 <1.0	<5.0 <1.0	<100 <20.0	<50.0 <10.0	<125 <25.0	<125 <25.0	<100 <20.0	<40.0 <10.0	<40.0 <10.0	<80.0 <20.0	<4.0 <1.0	<40.0 <10.0	<800 <200	<800 <200	NA* NA*
m&p-Xylene	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<2.0	<2.0	<2.0	<40.0	<20.0	<50.0	<50.0	<40.0	<20.0	<20.0	<40.0	<2.0	<20.0	<400	<400	NA*
Methylene Chloride	5	<80.0	<200	<10.0	<800	<800	<800	<400	<200	<400	<4.0	<400	<200	<200	<8.0	<4.0	<4.0	<4.0	<80.0	<40.0	<100	<100	<80.0	<40.0	<40.0	<80.0	<4.0	<40.0	<800	<800	NA*
Methyl-tert-butyl ether Naphthalene	70 300	<20.0 <80.0	<200 <1000	<10.0 <50.0	<200 <800	<200 <800	<200 <800	<100 <400	<50.0 <200	<100 <400	<1.0 <4.0	<100 <400	<50.0 <200	<50.0 <200	<2.0 <8.0	<1.0 <4.0	<1.0 <4.0	<1.0 <4.0	<20.0 <80.0	<10.0 <40.0	<25.0 <100	<25.0 <100	<20.0 <80.0	<10.0 <40.0	<10.0 <40.0	<20.0 <80.0	<1.0 <4.0	<10.0 <40.0	<200 <800	<200 <800	NA* NA*
n-Butylbenzene	NL	<20.0	<200	<10.0	<200	<200	<200	<100	<50.0	<100	<1.0	<100	<50.0	<50.0	<2.0	<1.0	<1.0	<1.0	<20.0	<10.0	<25.0	<25.0	<20.0	<10.0	<10.0	<20.0	<1.0	<10.0	<200	<200	NA*
n-Propylbenzene	NL NI	<20.0	<200	<10.0	<200	<200	<200	<100	<50.0	<100	<1.0	<100	<50.0	<50.0	<2.0	<1.0	<1.0	<1.0	<20.0	<10.0	<25.0	<25.0	<20.0	<10.0	<10.0	<20.0	<1.0	<10.0	<200	<200	NA*
o-Xylene p-Isopropyltoluene	NL NL	NA <20.0	NA <200	NA <10.0	NA <200	NA <200	NA <200	NA <100	NA <50.0	NA <100	NA <1.0	NA <100	NA <50.0	NA <50.0	NA <2.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<20.0 <20.0	<10.0 <10.0	<25.0 <25.0	<25.0 <25.0	<20.0 <20.0	<10.0 <10.0	<10.0 <10.0	<20.0 <20.0	<1.0 <1.0	<10.0 <10.0	<200 <200	<200 <200	NA*
sec-Butylbenzene	NL	<20.0	<1000	<50.0	<200	<200	<200	<100	<50.0	<100	<1.0	<100	<50.0	<50.0	<2.0	<1.0	<1.0	<1.0	<20.0	<10.0	<25.0	<25.0	<20.0	<10.0	<10.0	<20.0	<1.0	<10.0	<200	<200	NA*
Styrene tert-Butylbenzene	NL NL	<20.0 <20.0	<200 <200	<10.0 <10.0	<200 <200	<200 <200	<200 <200	<100 <100	<50.0 <50.0	<100 <100	<1.0 <1.0	<100 <100	<50.0 <50.0	<50.0 <50.0	<2.0 <2.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<20.0 <20.0	<10.0 <10.0	<25.0 <25.0	<25.0 <25.0	<20.0 <20.0	<10.0 <10.0	<10.0 <10.0	<20.0 <20.0	<1.0 <1.0	<10.0 <10.0	<200 <200	<200 <200	NA* NA*
tert-Butylbenzene Tetrachloroethene	NL 5	<20.0 2,510	<200 19600		<200 37,300		<200 21200	30800	<50.0 36300	21200	<1.0 53800	20000	<50.0 10200	<50.0 6980	<2.0 61800	<1.0 264	<1.0 5670	<1.0 74.8	<20.0 3690	<10.0 1010	<25.0 5310	<25.0 4260	3220	12,700	1,450	20,400	2,240				152,000
Tetrahydrofuran	100	<200	<1000	<50.0	<2000	<2000	<2000	<1000	<500	<1000	<10.0	<1000	<500	<500	<20.0	<10.0	<10.0	<10.0	<200	<100	<250	<250	<200	<100	<100	<200	10.9	<100	<2000	<2000	NA*
Toluene trans-1 2-Dichloroethene	1000 100	<20.0	<200 <200	<10.0 <10.0	<200 <200	<200 <200	<200 <200	<100 <100	<50.0 <50.0	<100 <100	<1.0	<100 <100	<50.0 <50.0	<50.0 <50.0	<2.0 <2.0	<1.0 <1.0	<1.0	<1.0 <1.0	<20.0 <20.0	<10.0 <10.0	<25.0 <100	<25.0 <100	<20.0 <80.0	<10.0 <10.0	<10.0 <10.0	<20.0 <20.0	<1.0	<10.0 <10.0	<200 <200	<200 <200	NA* <500
trans-1,2-Dichloroethene trans-1,3-Dichloropropene	NL	<20.0 <80.0	<4000	<200	<200 <800	<200 <800	<200 <800	<400	<50.0 <200	<100 <400	<1.0 <4.0	<400	<50.0 <200	<50.0 <200	<2.0 <8.0	<1.0 <4.0	<1.0 <4.0	<1.0 <4.0	<20.0 <80.0	<10.0 <40.0	<100	<100	<80.0 <80.0	<10.0 <40.0	<10.0 <40.0	<20.0 <80.0	<1.0 <4.0	<10.0 <40.0	<200 <800	<200 <800	<500 NA*
Trichloroethene	5	<8.0	<200	<10.0	<80.0	<80.0	<80.0	<40.0	40.7	<40.0	72.6	<40.0	<20.0	<20.0	68.2	<1.0	10.4	<1.0	<20.0	<10.0	<25.0	<25.0	<20.0	12.3	<10.0	22.8	<1.0	<10.0	<200	<200	<500
Trichlorofluoromethane	2000	<20.0	<200	<10.0	<200	<200	<200	<100	<50.0	<100	<1.0	<100	<50.0	<50.0	<2.0	<1.0	<1.0	<1.0	<20.0	<10.0	<25.0	<25.0	<20.0	<10.0	<10.0	<20.0	<1.0	<10.0	<200	<200	NA*
Vinyl chloride Xylene (Total)	0.2 10000	<8.0 <60.0	<200 <600	<10.0 <30.0	<80.0 <600	<80.0 <600	<80.0 <600	<40.0 <300	<20.0 <150	<40.0 <300	<1.0 <3.0	<40.0 <300	<20.0 <150	<20.0 <150	<0.80 <6.0	<0.40 <3.0	<0.40 <3.0	<0.40 <3.0	<8.0 <60.0	<4.0 <30.0	<10.0 <75.0	<10.0 <75.0	<8.0 <60.0	<4.0 <30.0	<4.0 <30.0	<8.0 <60.0	<0.40 <3.0	<4.0 <30.0	<80.0 <600	<80.0 <600	<200 NA*
Notes:		-50.0	-300	-50.0	-300	-500	-500	-500	00	-500	-5.0	-500		- 100	-0.0	-0.0	-0.0	-5.0	-50.0	-50.0	0.0	0.0						-00.0	-500		

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

221 1st Avenue SW Rochester, Minnesota

	Sample ID	MDH Health	DPE-4	DPE-4	DPE-4	DPE-4	DPE-4	DPE-4	DPE-4	DPE-4	DPE-4	DPE-4	DPE-4	DPE-4	DPE-4	DPE-4	DPE-4	DPE-4														
1. The content of the	Collected Date and Time																														09/28/09	
1 Holestones 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100	1,1,1,2-Tetrachloroethane	0,00	<20.0	<50.0	<5.0	<100	<50.0	<50.0	<50.0	<25.0	<50.0	<50.0	<50.0	<10.0	<10.0	<2.0	<1.0	<1.0	<1.0	<2.0	<5.0	<5.0	<5.0	<2.0	<10.0	<10.0	<5.0	<1.0	<5.0	<50.0	<50.0	NA*
19-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-	1,1,1-Trichloroethane	9000															<1.0															
1. Propose shore s	, , ,	2																														
State Stat	1,1,2-Trichlorotrifluoroethane																	11.0														
1. Statement of the control of the c	1,1-Dichloroethane																															
2-7-1		-																														
	1,2,3-Trichlorobenzene																															
24 The separate of the separat	1,2,3-Trichloropropane																															
Separate S																																
Schellenstensier 19 2, 20 30 50 50 50 50 50 50 50 50 50 50 50 50 50	1,2-Dibromo-3-chloropropane																															
Schellerscheine 1	1,2-Dibromoethane (EDB)																															
2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	· ·	600 4																														
Separate Marchine	1,2-Dichloropropane	5																														
Substitution of the substi	1,3,5-Trimethylbenzene																															
*** Althorsports see the section of																																
Hallenge Ciffic Mov	1,4-Dichlorobenzene																															NA*
Consistency	2,2-Dichloropropane																															
	` '																															
www. www. www. www. www. www. www. www	4-Chlorotoluene	NL			<5.0		<50.0	<50.0	<50.0	<25.0	<50.0		<50.0					<1.0	<1.0		<5.0	<5.0	<5.0						<5.0	<50.0	<50.0	NA*
Wilson W	4-Methyl-2-pentanone (MIBK)																	1														
merimene 2 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450	Allyl chloride																															
Instruction content	Benzene	2	<5.0												<10.0		<1.0	<1.0	<1.0		<5.0							<1.0				
inconstring from the fine stand properties and standard properties and stan	Bromobenzene Bromochloromothana																															
Informatise informatise in the control informatise informatise informatise informatise in the control informatise information informatise information informatise information informatise information informatise information informatise information informatise information informatise information informatise informatise informatise informatise informatise	Bromodichloromethane																															
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Descriptions 100 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6																																
District Conting Nat Section	Chlorobenzene	-																														
New Processor New Processo	Chloroethane																															
sis -12 Delitoprochemen																																
District Production Top So So So So So So So	cis-1,2-Dichloroethene	50															<1.0		<1.0								20.7		1			
Decompossible proproprise propriet pr	cis-1,3-Dichloropropene																															
Principolishormathman 100 45.0 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450 450																																
lethy lether ([Ethy lether (Ethy lether (Eth	Dichlorodifluoromethane	1000		<50.0		<100	<50.0	<50.0	<50.0	<25.0		<50.0									<5.0									<50.0	<50.0	NA*
itylimplemene i mylimplemene i mylim																																
1	Ethylbenzene																															
NL NA NA NA NA NA NA NA	Hexachloro-1,3-butadiene	1		<250	<25.0			<50.0		<25.0	<50.0	<50.0	<50.0	<10.0		<10.0	<5.0				<25.0	<25.0	<25.0	<10.0			<20.0		<20.0	<200	<200	
lefty-left-builder Chloride	Isopropylbenzene (Cumene)																															
Methyl-terh-buryl ether From Fr	Methylene Chloride																															
Filely ble marker NL \$5,0 \$5,0 \$5,0 \$5,0 \$5,0 \$5,0 \$5,0 \$5,0 \$5,0 \$5,0 \$5,0 \$5,0 \$5,0 \$5,0 \$5,0 \$5,0 \$5,0 \$5,0 \$5,0 \$5,0 \$5,0 \$5,0 \$5,0 \$5,0 \$5,0 \$5,0 \$5,0 \$5,0 \$5,0 \$5,0 \$5,0 \$5,0 \$5,0 \$5,0 \$5,0 \$5,0 \$5,0 \$5,0 \$5,0 \$5,0 \$5,0 \$5,0 \$5,0 \$5,0 \$5,0 \$5,0 \$5,0 \$5,0 \$5,0 \$5,0 \$5,0 \$5,0 \$5,0 \$5,0 \$5,0 \$5,0 \$5,0 \$5,0 \$5,0 \$5,0 \$5,0 \$5,0 \$5,0 \$5,0 \$5,0 \$5,0 \$5,0 \$5,0 \$5,0 \$5,0 \$5,0 \$5,0 \$5,0 \$5,0 \$5,0 \$5,0 \$5,0 \$5,0 \$5,0 \$5,0 \$5,0 \$5,0 \$5,0 \$5,0 \$5,0 \$5,0 \$5,0 \$5,0 \$5,0 \$5,0 \$5,0 \$5,0 \$5,0 \$5,0 \$5,0 \$5,0 \$5,0 \$5,0 \$5,0 \$5,0 \$5,0 \$5,0 \$5,0 \$5,0 \$5,0 \$5,0 \$5,0 \$5,0 \$5,0 \$5,0 \$5,0 \$5,0 \$5,0 \$5,0 \$5,0 \$5,0 \$5,0 \$5,0 \$5,0 \$5,0 \$5,0 \$5,0 \$5,0 \$5,0 \$5,0 \$5,0 \$5,0 \$5,0 \$5,0 \$5,0 \$5,0 \$5,0 \$5,0 \$5,0 \$5,0 \$5,0 \$5,0 \$5,0 \$5,0 \$5,0 \$5,0 \$5,0 \$5,0 \$5,0 \$5,0 \$5,0 \$5,0 \$5,0 \$5,0 \$5,0 \$5,0 \$5,0 \$5,0 \$5,0 \$5,0 \$5,0 \$5,0 \$5,0 \$5,0 \$5,0 \$5,0 \$5,0 \$5,0 \$5,0 \$5,0 \$5,0 \$5,0 \$5,0 \$5,0 \$5,0 \$5,0 \$5,0 \$5,0 \$5,0 \$5,0 \$5,0 \$5,0 \$5,0 \$5,0 \$5,0 \$5,0 \$5,0 \$5,0 \$5,0 \$5,0 \$5,0 \$5,0 \$5,0 \$5,0 \$5,0 \$5,0 \$5,0 \$5,0 \$5,0 \$5,0 \$5,0 \$5,0 \$5,0 \$5,0 \$5,0 \$5,0 \$5,0 \$5,0 \$5,0 \$5,0 \$5,0 \$5,0 \$5,0 \$5,0 \$5,0 \$5,0 \$5,0 \$5,0 \$5,0 \$5,0 \$5,0 \$5,0 \$5,0 \$5,0 \$5,0 \$5,0 \$5,0 \$5,0 \$5,0 \$5,0 \$5,0 \$5,0 \$5,0 \$5,0 \$5,0 \$5,0 \$5,0 \$5,0 \$5,0 \$5,0 \$5,0 \$5,0 \$5,0 \$5,0 \$5,0 \$5,0 \$5,0 \$5,0 \$5,0 \$5,0 \$5,0 \$5,0 \$5,0 \$5,0 \$5,0 \$5,0 \$5,0 \$5,0 \$5,0 \$5,0 \$5,0 \$5,0 \$5,0 \$5,0 \$5,0 \$5,0 \$5,0 \$5,0 \$5,0 \$5,0 \$5,0 \$5,0 \$5,0 \$5,0 \$5,0 \$5,0 \$5,0 \$5,0 \$5,0 \$5,0 \$5,0 \$5,0 \$5,0 \$5,0 \$5,0 \$5,0 \$5,0 \$5,0 \$5,0 \$5,0 \$5,0 \$5,0 \$5,0 \$5,0	Methyl-tert-butyl ether		<5.0											<10.0		<2.0	<1.0	<1.0	<1.0	<2.0				<2.0				<1.0				
Propylehazene Pr	Naphthalene n-Butylbenzene																															
-Xylene NL NL NA	n-Propylbenzene																															
NL		NL	NA			NA	NA	NA					NA	NA		NA																
Styrene of NL control of NL co																																
etrachloroethene 5 724 6170 1040 6,900 14900 11800 5090 11100 9670 8320 8860 6850 982 13700 219 1410 187 223 830 763 771 367 1,160 1,100 2,600 357 429 5,040 7,340 35,600 etrachloroethene 100 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <	Styrene																															
Tetrahydrofuran 100	tert-Butylbenzene																															
Follume Tollume Tollum		1 1																														
rans-1,2-Dichloroethene 100	Toluene																															
Frichloroethene 5 < 2.0 < 50.0 < 50.0 < 50.0 < 50.0 < 50.0 < 50.0 < 50.0 < 50.0 < 50.0 < 50.0 < 50.0 < 50.0 < 50.0 < 50.0 < 50.0 < 50.0 < 50.0 < 50.0 < 50.0 < 50.0 < 50.0 < 50.0 < 50.0 < 50.0 < 50.0 < 50.0 < 50.0 < 50.0 < 50.0 < 50.0 < 50.0 < 50.0 < 50.0 < 50.0 < 50.0 < 50.0 < 50.0 < 50.0 < 50.0 < 50.0 < 50.0 < 50.0 < 50.0 < 50.0 < 50.0 < 50.0 < 50.0 < 50.0 < 50.0 < 50.0 < 50.0 < 50.0 < 50.0 < 50.0 < 50.0 < 50.0 < 50.0 < 50.0 < 50.0 < 50.0 < 50.0 < 50.0 < 50.0 < 50.0 < 50.0 < 50.0 < 50.0 < 50.0 < 50.0 < 50.0 < 50.0 < 50.0 < 50.0 < 50.0 < 50.0 < 50.0 < 50.0 < 50.0 < 50.0 < 50.0 < 50.0 < 50.0 < 50.0 < 50.0 < 50.0 < 50.0 < 50.0 < 50.0 < 50.0 < 50.0 < 50.0 < 50.0 < 50.0 < 50.0 < 50.0 < 50.0 < 50.0 < 50.0 < 50.0 < 50.0 < 50.0 < 50.0 < 50.0 < 50.0 < 50.0 < 50.0 < 50.0 < 50.0 < 50.0 < 50.0 < 50.0 < 50.0 < 50.0 < 50.0 < 50.0 < 50.0 < 50.0 < 50.0 < 50.0 < 50.0 < 50.0 < 50.0 < 50.0 < 50.0 < 50.0 < 50.0 < 50.0 < 50.0 < 50.0 < 50.0 < 50.0 < 50.0 < 50.0 < 50.0 < 50.0 < 50.0 < 50.0 < 50.0 < 50.0 < 50.0 < 50.0 < 50.0 < 50.0 < 50.0 < 50.0 < 50.0 < 50.0 < 50.0 < 50.0 < 50.0 < 50.0 < 50.0 < 50.0 < 50.0 < 50.0 < 50.0 < 50.0 < 50.0 < 50.0 < 50.0 < 50.0 < 50.0 < 50.0 < 50.0 < 50.0 < 50.0 < 50.0 < 50.0 < 50.0 < 50.0 < 50.0 < 50.0 < 50.0 < 50.0 < 50.0 < 50.0 < 50.0 < 50.0 < 50.0 < 50.0 < 50.0 < 50.0 < 50.0 < 50.0 < 50.0 < 50.0 < 50.0 < 50.0 < 50.0 < 50.0 < 50.0 < 50.0 < 50.0 < 50.0 < 50.0 < 50.0 < 50.0 < 50.0 < 50.0 < 50.0 < 50.0 < 50.0 < 50.0 < 50.0 < 50.0 < 50.0 < 50.0 < 50.0 < 50.0 < 50.0 < 50.0 < 50.0 < 50.0 < 50.0 < 50.0 < 50.0 < 50.0 < 50.0 < 50.0 < 50.0 < 50.0 < 50.0 < 50.0 < 50.0 < 50.0 < 50.0 < 50.0 < 50.0 < 50.0 < 50.0 < 50.0 < 50.0 < 50.0 < 50.0 < 50.0 < 50.0 < 50.0 < 50.0 < 50.0 < 50.0 < 50.0 < 50.0 < 50.0 < 50.0 < 50.0 < 50.0 < 50.0 < 50.0 < 50.0 < 50.0 < 50.0 < 50.0 < 50.0 < 50.0 < 50.0 < 50.0 < 50.0 < 50.0 < 50.0 < 50.0 < 50.0 < 50.0 < 50.0 < 50.0 < 50.0 < 50.0 < 50.0 < 50.0 < 50.0 < 50.0 < 50.0 < 50.0 < 50.0 < 50.0 < 50.0 < 50.0 < 50.0 < 50.0 < 50.0 < 50.0 < 50.0 < 50.0 < 50.0 < 50.0 < 50.0 < 50.0 < 50.0 < 50.0 < 50.0	trans-1,2-Dichloroethene	100		<50.0	<5.0	<100	<50.0	<50.0	<50.0	<25.0	<50.0	<50.0	<50.0	<10.0	<10.0	<2.0	<1.0	<1.0	<1.0	<2.0	<5.0	<20.0	<20.0	<8.0	<10.0	<10.0	<5.0	<1.0	<5.0	<50.0	<50.0	
Frichlorofluoromethane 2000 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 <	trans-1,3-Dichloropropene Trichloroethene														-													-				
(rinyl chloride 0.2 < 2.0 <50.0 < 50.0 < 40.0 < 20.0 < 20.0 < 20.0 < 20.0 < 20.0 < 20.0 < 20.0 < 20.0 < 20.0 < 20.0 < 20.0 < 20.0 < 20.0 < 20.0 < 20.0 < 20.0 < 20.0 < 20.0 < 20.0 < 20.0 < 20.0 < 20.0 < 20.0 < 20.0 < 20.0 < 20.0 < 20.0 < 20.0 < 20.0 < 20.0 < 20.0 < 20.0 < 20.0 < 20.0 < 20.0 < 20.0 < 20.0 < 20.0 < 20.0 < 20.0 < 20.0 < 20.0 < 20.0 < 20.0 < 20.0 < 20.0 < 20.0 < 20.0 < 20.0 < 20.0 < 20.0 < 20.0 < 20.0 < 20.0 < 20.0 < 20.0 < 20.0 < 20.0 < 20.0 < 20.0 < 20.0 < 20.0 < 20.0 < 20.0 < 20.0 < 20.0 < 20.0 < 20.0 < 20.0 < 20.0 < 20.0 < 20.0 < 20.0 < 20.0 < 20.0 < 20.0 < 20.0 < 20.0 < 20.0 < 20.0 < 20.0 < 20.0 < 20.0 < 20.0 < 20.0 < 20.0 < 20.0 < 20.0 < 20.0 < 20.0 < 20.0 < 20.0 < 20.0 < 20.0 < 20.0 < 20.0 < 20.0 < 20.0 < 20.0 < 20.0 < 20.0 < 20.0 < 20.0 < 20.0 < 20.0 < 20.0 < 20.0 < 20.0 < 20.0 < 20.0 < 20.0 < 20.0 < 20.0 < 20.0 < 20.0 < 20.0 < 20.0 < 20.0 < 20.0 < 20.0 < 20.0 < 20.0 < 20.0 < 20.0 < 20.0 < 20.0 < 20.0 < 20.0 < 20.0 < 20.0 < 20.0 < 20.0 < 20.0 < 20.0 < 20.0 < 20.0 < 20.0 < 20.0 < 20.0 < 20.0 < 20.0 < 20.0 < 20.0 < 20.0 < 20.0 < 20.0 < 20.0 < 20.0 < 20.0 < 20.0 < 20.0 < 20.0 < 20.0 < 20.0 < 20.0 < 20.0 < 20.0 < 20.0 < 20.0 < 20.0 < 20.0 < 20.0 < 20.0 < 20.0 < 20.0 < 20.0 < 20.0 < 20.0 < 20.0 < 20.0 < 20.0 < 20.0 < 20.0 < 20.0 < 20.0 < 20.0 < 20.0 < 20.0 < 20.0 < 20.0 < 20.0 < 20.0 < 20.0 < 20.0 < 20.0 < 20.0 < 20.0 < 20.0 < 20.0 < 20.0 < 20.0 < 20.0 < 20.0 < 20.0 < 20.0 < 20.0 < 20.0 < 20.0 < 20.0 < 20.0 < 20.0 < 20.0 < 20.0 < 20.0 < 20.0 < 20.0 < 20.0 < 20.0 < 20.0 < 20.0 < 20.0 < 20.0 < 20.0 < 20.0 < 20.0 < 20.0 < 20.0 < 20.0 < 20.0 < 20.0 < 20.0 < 20.0 < 20.0 < 20.0 < 20.0 < 20.0 < 20.0 < 20.0 < 20.0 < 20.0 < 20.0 < 20.0 < 20.0 < 20.0 < 20.0 < 20.0 < 20.0 < 20.0 < 20.0 < 20.0 < 20.0 < 20.0 < 20.0 < 20.0 < 20.0 < 20.0 < 20.0 < 20.0 < 20.0 < 20.0 < 20.0 < 20.0 < 20.0 < 20.0 < 20.0 < 20.0 < 20.0 < 20.0 < 20.0 < 20.0 < 20.0 < 20.0 < 20.0 < 20.0 < 20.0 < 20.0 < 20.0 < 20.0 < 20.0 < 20.0 < 20.0 < 20.0 < 20.0 < 20.0 < 20.0 < 20.0 < 20.0 < 20.0 < 20.0 < 20.0 < 20.0 < 20.0 < 20.0 < 20.0 < 20.0 < 20.	Trichlorofluoromethane																															
	Vinyl chloride	0.2	<2.0	<50.0	<5.0	<40.0	<20.0	<20.0	<20.0	<10.0	<20.0	<50.0	<20.0	<4.0	<4.0	<0.80	< 0.40	< 0.40	<0.40	<0.80	<2.0	<2.0	<2.0	<0.80	<4.0	<4.0	<2.0	< 0.40	<2.0	<20.0	<20.0	<200
Into C'	Xylene (Total) Notes:	10000	<15.0	<150	<15.0	<300	<150	<150	<150	<75.0	<150	<150	<150	<30.0	<30.0	<6.0	<3.0	<3.0	<3.0	<6.0	<15.0	<15.0	<15.0	<6.0	<30.0	<30.0	<15.0	<3.0	<15.0	<150	<150	NA*

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

221 1st Avenue SW Rochester, Minnesota

Sample ID	MDH Health	DPE-5	DPE-5	DPE-5	DPE-5	DPE-5	DPE-5	DPE-5	DPE-5	DPE-5	DPE-5	DPE-5	DPE-5	DPE-5	DPE-5	DPE-5	DPE-5	DPE-5	DPE-5	DPE-5	DPE-5	DPE-5	DPE-5	DPE-5	DPE-5	DPE-5	DPE-5	DPE-5	DPE-5	DPE-5	DPE-5
Collected Date and Time	Risk Limits		02/23/16			08/18/15						02/17/14	12/10/13							02/16/12		08/28/11		03/01/11			05/13/10		11/17/09		12/10/08
1,1,1,2-Tetrachloroethane	5/09 70	<2.0	<2.0	<1.0	<2.0	<2.0	<2.0	<20.0	<25.0	<2.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<10.0	<10.0	NA*
1,1,1-Trichloroethane	9000	<2.0	<2.0	<1.0	<2.0	21.9	<2.0	<20.0	<25.0	<2.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<10.0	<10.0	NA*
1,1,2,2-Tetrachloroethane	2 3	<2.0	<2.0	<1.0	<2.0 <2.0	<2.0 2.2	<2.0	<20.0	<25.0	<2.0 <2.0	<1.0	<2.0 <2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<10.0	<10.0	NA*
1,1,2-Trichloroethane 1,1,2-Trichlorotrifluoroethane	200000	<2.0 13.2	<2.0 <10.0	<1.0 19.7	63.3	597	<2.0 50.6	<20.0 20.1	<25.0 34.3	19.4	<1.0 30.2	9.9	<1.0 37.4	<1.0 7.0	<1.0 48.0	<1.0 <1.0	<1.0 13.4	<1.0	<1.0 <1.0	<1.0 2.2	<1.0 3.0	<1.0 <1.0	<1.0 5.2	<1.0 13.9	<1.0 T <1.0 I	<1.0 11.5	<1.0 16.9	<5.0 19.4	<10.0 498	<10.0 37.9	NA* NA*
1,1-Dichloroethane	70	<2.0	<2.0	<1.0	<2.0	<2.0	<2.0	<20.0	<25.0	<2.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<10.0	<10.0	NA*
1,1-Dichloroethene	6	<2.0	<2.0	<1.0	<2.0	5.5	<2.0	<20.0	<25.0	<2.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<10.0	<10.0	<10.0
1,1-Dichloropropene 1,2,3-Trichlorobenzene	NL NL	<2.0 <2.0	<2.0 <10.0	<1.0 <5.0	<2.0 <2.0	<2.0 <2.0	<2.0 <2.0	<20.0 <20.0	<25.0 <25.0	<2.0 <2.0	<1.0 <1.0	<2.0 <2.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<5.0 <5.0	<10.0 <10.0	<10.0 <10.0	NA* NA*
1,2,3-Trichloropropane	40	<8.0	<2.0	<1.0	<8.0	<8.0	<8.0	<80.0	<100	<8.0	<4.0	<8.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<1.0	<1.0	<1.0	<5.0	<10.0	<10.0	NA*
1,2,4-Trichlorobenzene 1,2,4-Trimethylbenzene	NL NI	<2.0	<10.0	<5.0	<2.0	<2.0	<2.0	<20.0	<25.0	<2.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<10.0	<10.0	NA* NA*
1,2-Dibromo-3-chloropropane	NL NL	<2.0 <8.0	<2.0 <10.0	<1.0 <5.0	<2.0 <8.0	<2.0 <8.0	<2.0 <20.0	<20.0 <80.0	<25.0 <100	<2.0 <8.0	<1.0 <4.0	<2.0 <8.0	<1.0 <4.0	<1.0 <4.0	<1.0 <4.0	<1.0 <4.0	<1.0 <4.0	<1.0 <4.0	<1.0 <4.0	<1.0 <4.0	<1.0 <4.0	<1.0 <4.0	<1.0 <4.0	<1.0 <4.0	<1.0 <4.0	<1.0 <4.0	<1.0 <4.0	<5.0 <20.0	<10.0 <40.0	<10.0 <40.0	NA*
1,2-Dibromoethane (EDB)	.004	<2.0	<2.0	<1.0	<2.0	<2.0	<2.0	<20.0	<25.0	<2.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<10.0	<10.0	NA*
1,2-Dichlorobenzene	600	<2.0	<2.0	<1.0	<2.0	<2.0 <2.0	<2.0	<20.0	<25.0	<2.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0 <1.0	<1.0 <1.0	<1.0	<1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<5.0	<10.0	<10.0	NA* NA*
1,2-Dichloroethane 1,2-Dichloropropane	5	<2.0 <8.0	<2.0 <2.0	<1.0 <1.0	<2.0 <8.0	8.9	<2.0 <8.0	<20.0 <80.0	<25.0 <100	<2.0 <8.0	<1.0 <4.0	<2.0 <8.0	<1.0 <4.0	<1.0 <4.0	<1.0 <4.0	<1.0 <4.0	<1.0 <4.0	<1.0 <4.0	<1.0 <4.0	<1.0 <4.0	<1.0 <4.0	<1.0 <4.0	<4.0	<1.0	<1.0	<1.0	<1.0	<5.0 <5.0	<10.0 <10.0	<10.0 <10.0	NA*
1,3,5-Trimethylbenzene	100	<2.0	<2.0	<1.0	<2.0	<2.0	<2.0	<20.0	<25.0	<2.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<10.0	<10.0	NA*
1,3-Dichlorobenzene	NL NI	<2.0	<2.0	<1.0	<2.0	<2.0	<2.0	<20.0	<25.0	<2.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<10.0	<10.0	NA*
1,3-Dichloropropane 1,4-Dichlorobenzene	NL 10	<2.0 <2.0	<2.0 <2.0	<1.0 <1.0	<2.0 <2.0	<2.0 <2.0	<2.0 <2.0	<20.0 <20.0	<25.0 <25.0	<2.0 <2.0	<1.0 <1.0	<2.0 <2.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<5.0 <5.0	<10.0 <10.0	<10.0 <10.0	NA* NA*
2,2-Dichloropropane	NL	<8.0	<2.0	<1.0	<8.0	<8.0	<8.0	<80.0	<100	<8.0	<4.0	<8.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<5.0	<40.0	<10.0	NA*
2-Butanone (MEK)	4000	<10.0	<40.0	<20.0	<10.0	<10.0	<10.0	<100	<125	<10.0	<5.0	<10.0	<5.0	<5.0	<5.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<20.0	<40.0	<40.0	NA*
2-Chlorotoluene 4-Chlorotoluene	NL NL	<2.0 <2.0	<2.0 <2.0	<1.0 <1.0	<2.0 <2.0	<2.0 <2.0	<2.0 <2.0	<20.0 <20.0	<25.0 <25.0	<2.0 <2.0	<1.0 <1.0	<2.0 <2.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<5.0 <5.0	<10.0 <10.0	<10.0 <10.0	NA* NA*
4-Methyl-2-pentanone (MIBK)	300	<10.0	<40.0	<20.0	<10.0	<10.0	<10.0	<100	<125	<10.0	<5.0	<10.0	<5.0	<5.0	<5.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<20.0	<40.0	<40.0	NA*
Acetone	700	111	<40.0	<20.0	<40.0	<40.0	<100	<400	<500	<40.0	<20.0	<40.0	<20.0	<20.0	<20.0	107	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<10.0	<10.0	<10.0	<50.0	<100	<100	NA*
Allyl chloride Benzene	30 2	<8.0 <2.0	<10.0 <2.0	<5.0 <1.0	<8.0 <2.0	<8.0 <2.0	<8.0 <2.0	<80.0 <20.0	<100 <25.0	<8.0 <2.0	<4.0 <1.0	<8.0 <2.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<20.0 <5.0	<40.0 <10.0	<40.0 <10.0	NA* NA*
Bromobenzene	NL	<2.0	<2.0	<1.0	<2.0	<2.0	<2.0	<20.0	<25.0	<2.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<10.0	<10.0	NA*
Bromochloromethane Bromodichloromethane	NL 6	<2.0 <2.0	<2.0 <2.0	<1.0 <1.0	<2.0 <2.0	<2.0 <2.0	<2.0 <2.0	<20.0 <20.0	<25.0 <25.0	<2.0 <2.0	<1.0 <1.0	<2.0 <2.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<5.0 <5.0	<10.0 <10.0	<10.0 <10.0	NA* NA*
Bromodichloromethane Bromoform	40	<8.0	<10.0	<5.0	<8.0	<2.0 <8.0	<2.0 <8.0	<80.0	<100	<2.0 <8.0	<4.0	<2.0 <8.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<1.0 <8.0	<8.0	<8.0	<8.0	<40.0	<80.0	<80.0	NA*
Bromomethane	10	<8.0	<10.0	<5.0	<8.0	<8.0	<8.0	<80.0	<100	<8.0	<4.0	<8.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<20.0	<40.0	<40.0	NA*
Carbon tetrachloride Chlorobenzene	3 100	<2.0 <2.0	<2.0 <2.0	<1.0 <1.0	<2.0 <2.0	<2.0 <2.0	<2.0 <2.0	<20.0 <20.0	<25.0 <25.0	<2.0 <2.0	<1.0 <1.0	<8.0 <2.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<5.0 <5.0	<40.0 <10.0	<10.0 <10.0	NA* NA*
Chloroethane	300	<2.0	<2.0	<1.0	<2.0	<2.0	<2.0	<20.0	<25.0	<8.0	<1.0	<2.0	<1.0	<1.0	<4.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<10.0	<10.0	NA*
Chloroform	30	<8.0	<10.0	<5.0	<2.0	11.8	<2.0	<20.0	<25.0	2.9	<1.0	<2.0	2.5	<1.0	1.7	<1.0	1.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<10.0	<10.0	NA*
Chloromethane cis-1,2-Dichloroethene	NL 50	<8.0 <2.0	<2.0 <2.0	<1.0	<8.0 3.1	<8.0 276	<8.0 3.2	<80.0 <20.0	<100 91.3	16.4 55.4	<4.0 <1.0	<8.0 <2.0	<4.0 1.8	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0	<4.0 <1.0	<4.0 1.3	<4.0 1.8	<20.0 <5.0	<40.0 <10.0	<40.0 <10.0	NA* <10.0
cis-1,3-Dichloropropene	NL	<8.0	<10.0	<5.0	<8.0	<8.0	<8.0	<80.0	<100	<8.0	<4.0	<8.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<20.0	<40.0	<40.0	NA*
Dibromochloromethane	10	<2.0	<10.0	<5.0	<2.0	<2.0	<2.0	<20.0	<25.0	<2.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<10.0	<10.0	NA*
Dibromomethane Dichlorodifluoromethane	NL 1000	<8.0 <2.0	<2.0 <2.0	<1.0 <1.0	<8.0 <2.0	<8.0 <2.0	<8.0 <2.0	<80.0 <20.0	<100 <25.0	<8.0 <2.0	<4.0 <1.0	<8.0 <2.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<5.0 <5.0	<10.0 <10.0	<10.0 <10.0	NA* NA*
Dichlorofluoromethane	NL	<2.0	<2.0	<1.0	<2.0	<2.0	<2.0	<20.0	<25.0	<2.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<10.0	<10.0	NA*
Diethyl ether (Ethyl ether)	1000	<8.0	<10.0	<5.0	<8.0	<8.0	<8.0	<80.0	<100	<8.0	<4.0	<8.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<20.0	<40.0	<40.0	NA*
Ethylbenzene Hexachloro-1,3-butadiene	700 1	<2.0 <2.0	<2.0 <10.0	<1.0 <5.0	<2.0 <2.0	<2.0 <2.0	<2.0 <2.0	<20.0 <20.0	<25.0 <25.0	<2.0 <2.0	<1.0 <1.0	<2.0 <2.0	<1.0 <1.0	<1.0 <1.0	<1.0 <5.0	<1.0 <5.0	<1.0 <5.0	<1.0 <5.0	<1.0 <5.0	<1.0 <5.0	<1.0 <5.0	<1.0 <5.0	<1.0 <5.0	<1.0 <4.0	<1.0 <4.0	<1.0 <4.0	<1.0 <4.0	<5.0 <20.0	<10.0 <40.0	<10.0 <40.0	NA* NA*
Isopropylbenzene (Cumene)	300	<2.0	<2.0	<1.0	<2.0	<2.0	<2.0	<20.0	<25.0	<2.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<10.0	<10.0	NA*
m&p-Xylene	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<10.0	<20.0	<20.0	NA*
Methylene Chloride Methyl-tert-butyl ether	5 70	<8.0 <2.0	<2.0 <2.0	<1.0 <1.0	<8.0 <2.0	<8.0 <2.0	<8.0 <2.0	<80.0 <20.0	<100 <25.0	<8.0 <2.0	<4.0 <1.0	<8.0 <2.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	6.2 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<20.0 <5.0	<40.0 <10.0	<40.0 <10.0	NA* NA*
Naphthalene	300	<8.0	<10.0	<5.0	<8.0	<8.0	<8.0	<80.0	<100	<8.0	<4.0	<8.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<20.0	<40.0	<40.0	NA*
n-Butylbenzene	NL	<2.0	<2.0	<1.0	<2.0	<2.0	<2.0	<20.0	<25.0	<2.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<10.0	<10.0	NA*
n-Propylbenzene o-Xylene	NL NL	<2.0 NA	<2.0 NA	<1.0 NA	<2.0 NA	<2.0 NA	<2.0 NA	<20.0 NA	<25.0 NA	<2.0 NA	<1.0 NA	<2.0 NA	<1.0 NA	<1.0 NA	<1.0 NA	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<5.0 <5.0	<10.0 <10.0	<10.0 <10.0	NA* NA*
p-Isopropyltoluene	NL	<2.0	<2.0	<1.0	<2.0	<2.0	<2.0	<20.0	<25.0	<2.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<10.0	<10.0	NA*
sec-Butylbenzene	NL	<2.0	<10.0	<5.0	<2.0	<2.0	<2.0	<20.0	<25.0	<2.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<10.0	<10.0	NA*
Styrene tert-Butylbenzene	NL NL	<2.0 <2.0	<2.0 <2.0	<1.0 <1.0	<2.0 <2.0	<2.0 <2.0	<2.0 <2.0	<20.0 <20.0	<25.0 <25.0	<2.0 <2.0	<1.0 <1.0	<2.0 <2.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<5.0 <5.0	<10.0 <10.0	<10.0 <10.0	NA* NA*
Tetrachloroethene	5	152	148	209	263	17900	288	174	2280	1670	135	209	740	29.5	405	30.9	74.1	16.4	11.1	69.5	51.2	<1.0	67.2	339	21.6	124	205	486	1,450	875	1,340
Tetrahydrofuran	100	<20.0	<10.0	<5.0	<20.0	<20.0	<20.0	<200	<250	<20.0	<10.0	<20.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<50.0	<100	<100	NA*
Toluene trans-1,2-Dichloroethene	1000 100	<2.0	<2.0 <2.0	<1.0 <1.0	<2.0 <2.0	<2.0 <2.0	<2.0 <2.0	<20.0 <20.0	<25.0 <25.0	<2.0 <2.0	<1.0 <1.0	<2.0 <2.0	<1.0	<1.0	<1.0 <1.0	<1.0 <1.0	<1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <4.0	<1.0 <4.0	<1.0 <4.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<5.0 <5.0	<10.0 <10.0	<10.0 <10.0	NA* <10.0
trans-1,3-Dichloropropene	NL	<2.0 <8.0	<40.0	<1.0 <20.0	<2.0 <8.0	<2.0 <8.0	<2.0 <8.0	<20.0 <80.0	<25.0 <100	<2.0 <8.0	<1.0 <4.0	<2.0 <8.0	<1.0 <4.0	<1.0 <4.0	<1.0 <4.0	<1.0 <4.0	<1.0 <4.0	<1.0 <4.0	<1.0 <4.0	<1.0 <4.0	<4.0 <4.0	<4.0 <4.0	<4.0 <4.0	<1.0 <4.0	<1.0 <4.0	<1.0 <4.0	<1.0 <4.0	<5.0 <20.0	<10.0 <40.0	<10.0 <40.0	<10.0 NA*
Trichloroethene	5	<0.80	<2.0	<1.0	<0.80	67.8	<0.80	<8.0	10.4	7.2	<1.0	<0.80	1.8	<0.40	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<10.0	<10.0	<10.0
Trichlorofluoromethane	2000	<2.0	<2.0	<1.0	<2.0	<2.0	<2.0	<20.0	<25.0	<2.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<10.0	<10.0	NA*
Vinyl chloride Xylene (Total)	0.2 10000	<0.80 <6.0	<2.0 <6.0	<1.0 <3.0	<0.80 <6.0	<0.80 <3.0	<0.80 <6.0	<8.0 <60.0	<10.0 <75.0	<0.80 <6.0	<1.0 <3.0	<0.80 <6.0	<0.40 <3.0	<0.40 <3.0	<0.40 <3.0	<0.40 <3.0	<0.40 <3.0	<0.40 <3.0	<0.40 <3.0	<0.40 <3.0	<0.40 <3.0	<0.40 <3.0	<0.40 <3.0	<0.40 <3.0	<0.40 <3.0	<0.40 <3.0	<0.40 <3.0	<2.0 <15.0	<4.0 <30.0	<4.0 <30.0	<4.0 NA*
Notes:		-5.0	-0.0	-0.0	-0.0	-0.0	-0.0	-55.0	5.0	-0.0	-5.0	-0.0	-5.0	-5.0	-0.0	-5.0	-0.0	-0.0	-0.0	-0.0	-0.0	-5.0	.5.0	.0.0	.5.0	.5.0	.5.0		-50.0	-00.0	

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

TABLE 6A

GROUNDWATER ANALYTICAL RESULTS (ug/L) MN Bio Business Center

221 1st Avenue SW Rochester, Minnesota

Sample ID	MDH Health	DPE-6	DPE-6	DPE-6	DPE-6	DPE-6	DPE-6	DPE-6	DPE-6	DPE-6	DPE-6	DPE-6	DPE-6	DPE-6	DPE-6	DPE-6	DPE-6	DPE-6	DPE-6	DPE-6	DPE-6	DPE-6	DPE-6	DPE-6	DPE-6	DPE-6	DPE-6	DPE-6	DPE-6	DPE-6	DPE-6
Collected Date and Time	Risk Limits 5/09	05/17/16	02/23/16	01/11/16	12/14/15	08/18/15	06/15/15	02/25/15	11/19/14	08/21/14	04/20/14	02/17/14	12/10/13	08/26/13	05/23/13	02/25/13	12/19/12	09/26/12	05/17/12	02/16/12	11/21/11	08/28/11	05/19/11	03/01/11	12/22/10	08/18/10	05/13/10	02/22/10	11/17/09	09/24/09	12/10/08
1,1,1,2-Tetrachloroethane	70	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<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	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
1,1,2,2-Tetrachloroethane 1,1,2-Trichloroethane	3	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	NA* NA*
1,1,2-Trichlorotrifluoroethane	200000	<1.0	<5.0	<5.0	<1.0	1.6	1.8	<1.0	1.8	1.1	<1.0	<1.0	2.4	<1.0	1.1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	1.5	<1.0	<1.0	<1.0	<1.0	3.5	NA*
1,1-Dichloroethane	70 6	<1.0 <1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0 <1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0 <1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0	<1.0	<1.0	<1.0	NA*
1,1-Dichloroethene 1,1-Dichloropropene	NL	<1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0	<1.0	<1.0	<1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<2.0 NA*
1,2,3-Trichlorobenzene	NL	<1.0	<5.0	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
1,2,3-Trichloropropane 1,2,4-Trichlorobenzene	40 NL	<4.0 <1.0	<1.0 <5.0	<1.0 <5.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	NA* NA*
1,2,4-Trimethylbenzene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
1,2-Dibromo-3-chloropropane 1,2-Dibromoethane (EDB)	NL .004	<4.0 <1.0	<5.0 <1.0	<5.0 <1.0	<4.0 <1.0	<4.0 <1.0	<10.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	NA* NA*
1,2-Dichlorobenzene	600	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<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	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
1,2-Dichloropropane 1,3,5-Trimethylbenzene	5 100	<4.0 <1.0	<1.0 <1.0	<1.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	NA* NA*
1,3-Dichlorobenzene	NL	<1.0 <1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
1,3-Dichloropropane	NL 10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
1,4-Dichlorobenzene 2,2-Dichloropropane	10 NL	<1.0 <4.0	<1.0 <1.0	<1.0 <1.0	<1.0 <4.0	<1.0 <4.0	<1.0 <4.0	<1.0 <4.0	<1.0 <4.0	<1.0 <4.0	<1.0 <4.0	<1.0 <4.0	<1.0 <4.0	<1.0 <4.0	<1.0 <4.0	<1.0 <4.0	<1.0 <4.0	<1.0 <4.0	<1.0 <4.0	<1.0 <4.0	<1.0 <4.0	<1.0 <4.0	<1.0 <4.0	<1.0 <4.0	<1.0 <4.0	<1.0 <4.0	<1.0 <4.0	<1.0 <1.0	<1.0 <4.0	<1.0 <1.0	NA* NA*
2-Butanone (MEK)	4000	<5.0	<20.0	<20.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	NA*
2-Chlorotoluene 4-Chlorotoluene	NL NL	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	NA* NA*
4-Methyl-2-pentanone (MIBK)	300	<5.0	<20.0	<20.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	NA*
Acetone Allyl oblorido	700 30	<20.0	<20.0	<20.0	<20.0	<20.0	<50.0	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	NA* NA*
Allyl chloride Benzene	2	<4.0 <1.0	<5.0 <1.0	<5.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	NA*
Bromobenzene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
Bromochloromethane Bromodichloromethane	NL 6	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	NA* NA*
Bromoform	40	<4.0	<5.0	<5.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<8.0	<8.0	<8.0	<8.0	<8.0	<8.0	<8.0	NA*
Bromomethane	10 3	<4.0	<5.0	<5.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0 <4.0	<4.0 <4.0	<4.0	<4.0	<4.0	NA* NA*
Carbon tetrachloride Chlorobenzene	100	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<4.0 <1.0	<4.0 <1.0	<1.0	<1.0	<1.0 <1.0	<4.0 <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	<4.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
Chloroform Chloromethane	30 NL	<4.0 <4.0	<5.0 <1.0	<5.0 <1.0	<1.0 <4.0	1.1 <4.0	<1.0 <4.0	1.1 <4.0	1.1 <4.0	1.1 <4.0	<1.0 <4.0	<1.0 <4.0	<1.0 <4.0	1.3 <4.0	1.6 <4.0	<1.0 <4.0	1.4 <4.0	1.1 <4.0	1.2 <4.0	1.0 <4.0	1.1 <4.0	1.6 <4.0	1.6 <4.0	<1.0 <4.0	NA* 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	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	1.5	<1.0	<2.0
cis-1,3-Dichloropropene	NL 10	<4.0	<5.0	<5.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	NA* NA*
Dibromochloromethane Dibromomethane	NL	<1.0 <4.0	<5.0 <1.0	<5.0 <1.0	<1.0 <4.0	<1.0 <4.0	<1.0 <4.0	<1.0 <4.0	<1.0 <4.0	<1.0 <4.0	<1.0 <4.0	<1.0 <4.0	<1.0 <4.0	<1.0 <4.0	<1.0 <4.0	<1.0 <4.0	<1.0 <4.0	<1.0 <4.0	<1.0 <4.0	<1.0 <4.0	<1.0 <4.0	<1.0 <4.0	<1.0 <4.0	<1.0 <4.0	<1.0 <4.0	<1.0 <4.0	<1.0 <4.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	NA*
Dichlorodifluoromethane	1000	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
Dichlorofluoromethane Diethyl ether (Ethyl ether)	NL 1000	<1.0 <4.0	<1.0 <5.0	<1.0 <5.0	<1.0 <4.0	<1.0 <4.0	<1.0 <4.0	<1.0 <4.0	<1.0 <4.0	<1.0 <4.0	<1.0 <4.0	<1.0 <4.0	<1.0 <4.0	<1.0 <4.0	<1.0 <4.0	<1.0 <4.0	<1.0 <4.0	<1.0 <4.0	<1.0 <4.0	<1.0 <4.0	<1.0 <4.0	<1.0 <4.0	<1.0 <4.0	<1.0 <4.0	<1.0 <4.0	<1.0 <4.0	<1.0 <4.0	<1.0 <4.0	<1.0 <4.0	<1.0 <4.0	NA* NA*
Ethylbenzene	700	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
Hexachloro-1,3-butadiene Isopropylbenzene (Cumene)	1 300	<1.0	<5.0	<5.0	<1.0 <1.0	<1.0	<1.0	<1.0	<1.0	<1.0 <1.0	<1.0	<1.0 <1.0	<1.0 <1.0	<1.0	<5.0 <1.0	<5.0 <1.0	<5.0 <1.0	<5.0 <1.0	<5.0 <1.0	<5.0 <1.0	<5.0 <1.0	<5.0	<5.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	NA* NA*
m&p-Xylene	NL	<1.0 NA	<1.0 NA	<1.0 NA	NA	<1.0 NA	<1.0 NA	<1.0 NA	<1.0 NA	NA	<1.0 NA	NA	NA	<1.0 NA	<1.0 NA	<1.0 <2.0	<1.0 <2.0	<1.0 <2.0	<1.0 <2.0	<2.0	<1.0 <2.0	<1.0 <2.0	<1.0 <2.0	<2.0	<2.0	<1.0 <2.0	<1.0 <2.0	<1.0 <2.0	<1.0 <2.0	<2.0	NA*
Methylene Chloride	5	<4.0	<1.0	<1.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	7.3	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	NA*
Methyl-tert-butyl ether Naphthalene	70 300	<1.0 <4.0	<1.0 <5.0	<1.0 <5.0	<1.0 <4.0	<1.0 <4.0	<1.0 <4.0	<1.0 <4.0	<1.0 <4.0	<1.0 <4.0	<1.0 <4.0	<1.0 <4.0	<1.0 <4.0	<1.0 <4.0	<1.0 <4.0	<1.0 <4.0	<1.0 <4.0	<1.0 <4.0	<1.0 <4.0	<1.0 <4.0	<1.0 <4.0	<1.0 <4.0	<1.0 <4.0	<1.0 <4.0	<1.0 <4.0	<1.0 <4.0	<1.0 <4.0	<1.0 <4.0	<1.0 <4.0	<1.0 <4.0	NA* NA*
n-Butylbenzene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
n-Propylbenzene	NL NI	<1.0 NA	<1.0 NA	<1.0	<1.0	<1.0 NA	<1.0	<1.0 NA	<1.0	<1.0	<1.0 NA	<1.0	<1.0 NA	<1.0 NA	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA* NA*
o-Xylene p-Isopropyltoluene	NL NL	<1.0	NA <1.0	<1.0	<1.0	<1.0	NA <1.0	NA <1.0	MA <1.0	NA <1.0	<1.0	<1.0	NA <1.0	NA <1.0	<1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	NA*							
sec-Butylbenzene	NL	<1.0	<5.0	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
Styrene tert-Butylbenzene	NL NL	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	NA* NA*
Tetrachloroethene	5	51.2	5.8	17	67.8	65.9	138	5.2	24.6	25.0	17.4	12.9	107	4.0	6.2	19.8	10.9	4.6	<1.0	44.8	1.9	7.7	23.4	3.9	77.1	21.7	14.6	57.8	104	79.3	188
Tetrahydrofuran	100	<10.0	<5.0	<5.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	NA*
Toluene trans-1,2-Dichloroethene	1000 100	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <4.0	<1.0 <4.0	<1.0 <4.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	NA* <2.0
trans-1,3-Dichloropropene	NL	<4.0	<20.0	<20.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	NA*
Trichloroethene	5	<0.40	<1.0	<1.0	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<1.0	<0.40	<0.40	<0.40	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0
Trichlorofluoromethane Vinyl chloride	2000 0.2	<1.0 <0.40	<1.0 <1.0	<1.0 <1.0	<1.0 <0.40	<1.0 <0.40	<1.0 <0.40	<1.0 <0.40	<1.0 <0.40	<1.0 <0.40	<1.0 <1.0	<1.0 <0.40	<1.0 <0.40	<1.0 <0.40	<1.0 <0.40	<1.0 <0.40	<1.0 <0.40	<1.0 <0.40	<1.0 <0.40	<1.0 <0.40	<1.0 <0.40	<1.0 <0.40	<1.0 <0.40	<1.0 <0.40	<1.0 <0.40	<1.0 <0.40	<1.0 <0.40	<1.0 <0.40	<1.0 <0.40	<1.0 <0.40	NA* <0.80
Xylene (Total)	10000	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	NA*
Notes:																															

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

TABLE 6A

GROUNDWATER ANALYTICAL RESULTS (ug/L) MN Bio Business Center

221 1st Avenue SW Rochester, Minnesota

Sample ID	MDH Health	DPE-7	DPE-7	DPE-7	DPE-7	DPE-7	DPE-7	DPE-7	DPE-7	DPE-7	DPE-7	DPE-7	DPE-7	DPE-7	DPE-7	DPE-7	DPE-7	DPE-7	DPE-7	DPE-7	DPE-7	DPE-7	DPE-7	DPE-7	DPE-7	DPE-7	DPE-7	DPE-7	DPE-7	DPE-7	DPE-7
Collected Date and Time	Risk Limits	05/17/16	02/23/16	01/11/16	12/14/15	08/18/15	06/15/15	02/25/15	11/19/14	08/21/14	05/20/14	02/17/14	12/10/13	08/26/13	05/23/13	02/25/13	12/19/12	09/26/12	05/17/12	02/16/12	11/21/11	08/28/11	05/19/11	03/01/11	12/22/10	08/18/10	05/13/10	02/22/10	11/17/09	09/24/09	12/10/08
1,1,1,2-Tetrachloroethane	5/09 70	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<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	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
1,1,2,2-Tetrachloroethane 1,1,2-Trichloroethane	2	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	NA* NA*
1,1,2-Trichlorotrifluoroethane	200000	<1.0	<5.0	<5.0	<1.0	1.4	1.5	1.3	1.9	4.8	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	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	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
1,1-Dichloroethene 1,1-Dichloropropene	6 NL	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 NA*
1,2,3-Trichlorobenzene	NL	<1.0	<5.0	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
1,2,3-Trichloropropane	40	<4.0	<1.0	<1.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
1,2,4-Trichlorobenzene 1,2,4-Trimethylbenzene	NL NL	<1.0 <1.0	<5.0 <1.0	<5.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	NA* NA*
1,2-Dibromo-3-chloropropane	NL	<4.0	<5.0	<5.0	<4.0	<4.0	<10.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<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	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
1,2-Dichlorobenzene 1,2-Dichloroethane	600 4	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	NA* NA*
1,2-Dichloropropane	5	<4.0	<1.0	<1.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<1.0	<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	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
1,3-Dichlorobenzene 1,3-Dichloropropane	NL NL	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	NA* NA*
1,4-Dichlorobenzene	10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
2,2-Dichloropropane	NL 4000	<4.0	<1.0	<1.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<1.0	<4.0	<1.0	NA*
2-Butanone (MEK) 2-Chlorotoluene	4000 NL	<5.0 <1.0	<20.0 <1.0	<20.0 <1.0	<5.0 <1.0	<5.0 <1.0	<5.0 <1.0	<5.0 <1.0	<5.0 <1.0	<5.0 <1.0	<5.0 <1.0	<5.0 <1.0	<5.0 <1.0	<5.0 <1.0	<5.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	NA* NA*
4-Chlorotoluene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
4-Methyl-2-pentanone (MIBK)	300	<5.0	<20.0	<20.0	<5.0	<5.0	<5.0 •50.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	NA* NA*
Acetone Allyl chloride	700 30	<20.0 <4.0	<20.0 <5.0	<20.0 <5.0	<20.0 <4.0	<20.0 <4.0	<50.0 <4.0	<20.0 <4.0	<20.0 <4.0	<20.0 <4.0	<20.0 <4.0	<20.0 <4.0	<20.0 <4.0	<20.0 <4.0	<20.0 <4.0	<25.0 <4.0	<25.0 <4.0	<25.0 <4.0	<25.0 <4.0	<25.0 <4.0	<25.0 <4.0	<25.0 <4.0	<25.0 <4.0	<25.0 <4.0	<10.0 <4.0	<10.0 <4.0	<10.0 <4.0	<10.0 <4.0	<10.0 <4.0	<10.0 <4.0	NA NA*
Benzene	2	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
Bromobenzene Bromochloromethane	NL NL	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	NA* NA*
Bromodichloromethane	6	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
Bromoform	40	<4.0	<5.0	<5.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<8.0	<8.0	<8.0	<8.0	<8.0	<8.0	<8.0	NA*
Bromomethane Carbon tetrachloride	10 3	<4.0 <1.0	<5.0 <1.0	<5.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <4.0	<4.0 <4.0	<4.0 <4.0	<4.0 <4.0	<4.0 <1.0	<4.0 <4.0	<4.0 <1.0	NA* NA*
Chlorobenzene	100	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
Chloroethane Chloroform	300	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0 1.0	<4.0 <1.0	<1.0	<1.0	<4.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0 1.2	<1.0 2.3	<1.0 2.3	<1.0	<1.0	<1.0	<1.0	<1.0 1.1	<1.0	NA* NA*
Chloromethane	30 NL	<4.0 <4.0	<5.0 <1.0	<5.0 <1.0	<1.0 <4.0	<1.0 <4.0	<1.0 <4.0	<4.0	<4.0	8.1	<1.0 <4.0	<1.0 <4.0	<1.0 <4.0	<1.0 <4.0	<1.0 <4.0	<1.0 <4.0	<1.0 <4.0	<1.0 <4.0	<1.0 <4.0	<1.0 <4.0	<1.0 <4.0	<4.0	<4.0	<4.0	<1.0 <4.0	1.3 <4.0	1.3 <4.0	1.2 <4.0	<4.0	1.3 <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	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
cis-1,3-Dichloropropene	NL 10	<4.0	<5.0	<5.0	<4.0	<4.0 <1.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	NA* NA*
Dibromochloromethane Dibromomethane	NL	<1.0 <4.0	<5.0 <1.0	<5.0 <1.0	<1.0 <4.0	<4.0	<1.0 <4.0	<1.0 <4.0	<1.0 <4.0	<1.0 <4.0	<1.0 <4.0	<1.0 <4.0	<1.0 <4.0	<1.0 <4.0	<1.0 <4.0	<1.0 <4.0	<1.0 <4.0	<1.0 <4.0	<1.0 <4.0	<1.0 <4.0	<1.0 <4.0	<1.0 <4.0	<1.0 <4.0	<1.0 <4.0	<1.0 <4.0	<1.0 <4.0	<1.0 <4.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	NA*
Dichlorodifluoromethane	1000	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
Dichlorofluoromethane Diethyl ether (Ethyl ether)	NL 1000	<1.0 <4.0	<1.0 <5.0	<1.0 <5.0	<1.0 <4.0	<1.0 <4.0	<1.0 <4.0	<1.0 <4.0	<1.0 <4.0	<1.0 <4.0	<1.0 <4.0	<1.0 <4.0	<1.0 <4.0	<1.0 <4.0	<1.0 <4.0	<1.0 <4.0	<1.0 <4.0	<1.0 <4.0	<1.0 <4.0	<1.0 <4.0	<1.0 <4.0	<1.0 <4.0	<1.0 <4.0	<1.0 <4.0	<1.0 <4.0	<1.0 <4.0	<1.0 <4.0	<1.0 <4.0	<1.0 <4.0	<1.0 <4.0	NA* NA*
Ethylbenzene	700	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
Hexachloro-1,3-butadiene	1	<1.0	<5.0	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	NA*
Isopropylbenzene (Cumene) m&p-Xylene	300 NL	<1.0 NA	<1.0 NA	<1.0 NA	<1.0 NA	<1.0 NA	<1.0 NA	<1.0 NA	<1.0 NA	<1.0 NA	<1.0 NA	<1.0 NA	<1.0 NA	<1.0 NA	<1.0 NA	<1.0 <2.0	<1.0 <2.0	<1.0 <2.0	<1.0 <2.0	<1.0 <2.0	<1.0 <2.0	<1.0 <2.0	<1.0 <2.0	<1.0 <2.0	<1.0 <2.0	<1.0 <2.0	<1.0 <2.0	<1.0 <2.0	<1.0 <2.0	<1.0 <2.0	NA* NA*
Methylene Chloride	5	<4.0	<1.0	<1.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<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	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
Naphthalene n-Butylbenzene	300 NL	<4.0 <1.0	<5.0 <1.0	<5.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	NA* NA*
n-Propylbenzene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
o-Xylene	NL NL	NA ~1.0	NA -1.0	NA -1.0	NA -1.0	NA -1.0	NA -1.0	NA -1.0	NA -1.0	NA -1.0	NA -1.0	NA ~1.0	NA -1.0	NA -1.0	NA -1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
p-Isopropyltoluene sec-Butylbenzene	NL NL	<1.0 <1.0	<1.0 <5.0	<1.0 <5.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	NA* NA*
Styrene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
tert-Butylbenzene Tetrachloroethene	NL 5	<1.0 37.9	<1.0 3.4	<1.0 29.1	<1.0 146	<1.0 127	<1.0 233	<1.0 14.0	<1.0 48.5	<1.0 44.2	<1.0 6.9	<1.0 5.8	<1.0 2.0	<1.0 <1.0	<1.0 1.6	<1.0 8.0	<1.0 3.7	<1.0 <1.0	<1.0 <1.0	<1.0 27.8	<1.0 <1.0	<1.0 26.9	<1.0 15.9	<1.0 7.1	<1.0 23.2	<1.0 189	<1.0 25.7	<1.0 7.3	<1.0 55.2	<1.0 5.2	NA* 22.3
Tetrachioroethene	100	<10.0	<5.0	<5.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0 <10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<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	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
trans-1,2-Dichloroethene	100	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<4.0	<4.0	<4.0 <4.0	<1.0 <4.0	<1.0 <4.0	<1.0 <4.0	<1.0 <4.0	<1.0	<1.0	<1.0	<1.0 NA*
trans-1,3-Dichloropropene Trichloroethene	NL 5	<4.0 <0.40	<20.0 <1.0	<20.0 <1.0	<4.0 <0.40	<4.0 <0.40	<4.0 <0.40	<4.0 <0.40	<4.0 <0.40	<4.0 <0.40	<4.0 <1.0	<4.0 <0.40	<4.0 <1.0	<4.0 <0.40	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	NA* <1.0
Trichlorofluoromethane	2000	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
Vinyl chloride	0.2	<0.40	<1.0	<1.0	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<1.0	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<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) Notes:	10000	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<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
NS: Not Sampled

GROUNDWATER ANALYTICAL RESULTS (ug/L) MN Bio Business Center

221 1st Avenue SW Rochester, Minnesota

Sample ID	MDH Health	DPE-8	DPE-8	DPE-8	DPE-8	DPE-8	DPE-8	DPE-8	DPE-8	DPE-8	DPE-8	DPE-8	DPE-8	DPE-8	DPE-8	DPE-8	DPE-8	DPE-8	DPE-8	DPE-8	DPE-8	DPE-8	DPE-8	DPE-8	DPE-8	DPE-8	DPE-8	DPE-8	DPE-8	DPE-8	DPE-8
Collected Date and Time	Risk Limits 5/09	05/18/16	02/23/16	01/11/16	12/14/15	08/18/15	06/15/15	02/25/15	11/19/14	08/21/14	05/20/14	02/17/14	12/10/13	08/26/13	05/23/13	02/25/13	12/19/12	09/26/12	05/17/12	02/16/12	11/21/11	08/28/11	05/19/11	03/01/11	12/22/10	08/18/10	05/13/10	02/22/10	11/17/09	09/24/09	12/10/08
1,1,1,2-Tetrachloroethane	70	<40.0	<5.0	<4.0	<25.0	<25.0	<1.0	<2.0	<1.0	<1.0	<1.0	<20.0	<25.0	<2.0	<5.0	NS	NS	NS	NS	NS	<5.0	<2.0	<5.0	<2.0	<1.0	<1.0	<1.0	<1.0	<10.0	<2.0	NA*
1,1,1-Trichloroethane	9000	<10.0	<5.0	<4.0	<25.0	<25.0	<1.0	<2.0	<1.0	<1.0	1.5	<20.0	<25.0	<2.0	<5.0	NS	NS	NS	NS	NS	<5.0	<2.0	<5.0	<2.0	<1.0	<1.0	<1.0	<1.0	<10.0	<2.0	NA*
1,1,2,2-Tetrachloroethane 1,1,2-Trichloroethane	2	<10.0 <10.0	<5.0 <5.0	<4.0 <4.0	<25.0 <25.0	<25.0 <25.0	<1.0 <1.0	<2.0 <2.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<20.0 <20.0	<25.0 <25.0	<2.0 <2.0	<5.0 <5.0	NS NS	NS NS	NS NS	NS NS	NS NS	<5.0 <5.0	<2.0 <2.0	<5.0 <5.0	<2.0 <2.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<10.0 <10.0	<2.0 <2.0	NA* NA*
1,1,2-Trichlorotrifluoroethane	200000	87.9	39.6	<20.0	174	151	123	14.9	75.7	141	235	267	104	36.4	237	NS	NS	NS	NS	NS	62.0	32.4	77.9	48.7	33.5	5.9	2.2	3.8	34.2	43.4	NA*
1,1-Dichloroethane	70	<10.0	<5.0	<4.0	<25.0	<25.0	<1.0	<2.0	<1.0	<1.0	<1.0	<20.0	<25.0	<2.0	<5.0	NS	NS	NS	NS	NS	<5.0	<2.0	<5.0	<2.0	<1.0	<1.0	<1.0	<1.0	<10.0	<2.0	NA*
1,1-Dichloroethene	6	<10.0	<5.0	<4.0	<25.0	<25.0	<1.0	<2.0	<1.0	<1.0	<1.0	<20.0	<25.0	<2.0	<5.0	NS	NS	NS	NS	NS	<5.0	<2.0	<5.0	<2.0	<1.0	<1.0	<1.0	<1.0	<10.0	<2.0	<100
1,1-Dichloropropene 1,2,3-Trichlorobenzene	NL NL	<10.0	<5.0 <25.0	<4.0 <20.0	<25.0 <25.0	<25.0 <25.0	<1.0 <1.0	<2.0 <2.0	<1.0	<1.0	<1.0	<20.0 <20.0	<25.0 <25.0	<2.0	<5.0 <5.0	NS NS	NS NS	NS NS	NS NS	NS NS	<5.0 <5.0	<2.0 <2.0	<5.0 <5.0	<2.0 <2.0	<1.0	<1.0	<1.0	<1.0	<10.0 <10.0	<2.0 <2.0	NA* NA*
1,2,3-Trichloropropane	40	<10.0 <40.0	<5.0	<4.0	<100	<100	<4.0	<2.0 <8.0	<1.0 <4.0	<1.0 <4.0	<1.0 <4.0	<80.0	<100	<2.0 <8.0	<20.0	NS	NS	NS	NS	NS	<20.0	<2.0 <8.0	<20.0	<8.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<10.0	<2.0	NA*
1,2,4-Trichlorobenzene	NL	<10.0	<25.0	<20.0	<25.0	<25.0	<1.0	<2.0	<1.0	<1.0	<1.0	<20.0	<25.0	<2.0	<5.0	NS	NS	NS	NS	NS	<5.0	<2.0	<5.0	<2.0	<1.0	<1.0	<1.0	<1.0	<10.0	<2.0	NA*
1,2,4-Trimethylbenzene	NL	<10.0	<5.0	<4.0	<25.0	<25.0	<1.0	<2.0	<1.0	<1.0	<1.0	<20.0	<25.0	<2.0	<5.0	NS	NS	NS	NS	NS	<5.0	<2.0	<5.0	<2.0	<1.0	<1.0	<1.0	<1.0	<10.0	<2.0	NA*
1,2-Dibromo-3-chloropropane 1,2-Dibromoethane (EDB)	NL .004	<100 <10.0	<25.0 <5.0	<20.0 <4.0	<100 <25.0	<100 <25.0	<10.0 <1.0	<8.0 <2.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<80.0 <20.0	<100 <25.0	<8.0 <2.0	<20.0 <5.0	NS NS	NS NS	NS NS	NS NS	NS NS	<20.0 <5.0	<8.0 <2.0	<20.0 <5.0	<8.0 <2.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<40.0 <10.0	<8.0 <2.0	NA* NA*
1,2-Dichlorobenzene	600	<10.0	<5.0	<4.0	<25.0	<25.0	<1.0	<2.0	<1.0	<1.0	<1.0	<20.0	<25.0	<2.0	<5.0	NS	NS	NS	NS	NS	<5.0	<2.0	<5.0	<2.0	<1.0	<1.0	<1.0	<1.0	<10.0	<2.0	NA*
1,2-Dichloroethane	4	<10.0	<5.0	<4.0	<25.0	<25.0	<1.0	<2.0	<1.0	<1.0	<1.0	<20.0	<25.0	<2.0	<5.0	NS	NS	NS	NS	NS	<5.0	<2.0	<5.0	<2.0	<1.0	<1.0	<1.0	<1.0	<10.0	<2.0	NA*
1,2-Dichloropropane	5	<40.0	<5.0	<4.0	<100	<100	<4.0	<8.0	<4.0	<4.0	<4.0	<80.0	<100	<8.0	<20.0	NS	NS	NS	NS	NS	<20.0	<8.0	<20.0	<2.0	<1.0	<1.0	<1.0	<1.0	<10.0	<2.0	NA*
1,3,5-Trimethylbenzene 1,3-Dichlorobenzene	100 NL	<10.0 <10.0	<5.0 <5.0	<4.0 <4.0	<25.0 <25.0	<25.0 <25.0	<1.0 <1.0	<2.0 <2.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<20.0 <20.0	<25.0 <25.0	<2.0 <2.0	<5.0 <5.0	NS NS	NS NS	NS NS	NS NS	NS NS	<5.0 <5.0	<2.0 <2.0	<5.0 <5.0	<2.0 <2.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<10.0 <10.0	<2.0 <2.0	NA* NA*
1,3-Dichloropropane	NL NL	<10.0	<5.0 <5.0	<4.0	<25.0	<25.0	<1.0	<2.0	<1.0	<1.0	<1.0	<20.0	<25.0	<2.0	<5.0 <5.0	NS	NS	NS	NS	NS	<5.0 <5.0	<2.0	<5.0 <5.0	<2.0	<1.0	<1.0	<1.0	<1.0	<10.0	<2.0	NA*
1,4-Dichlorobenzene	10	<10.0	<5.0	<4.0	<25.0	<25.0	<1.0	<2.0	<1.0	<1.0	<1.0	<20.0	<25.0	<2.0	<5.0	NS	NS	NS	NS	NS	<5.0	<2.0	<5.0	<2.0	<1.0	<1.0	<1.0	<1.0	<10.0	<2.0	NA*
2,2-Dichloropropane	NL 1000	<40.0	<5.0	<4.0	<100	<100	<4.0	<8.0	<4.0	<4.0	<4.0	<80.0	<100	<8.0	<20.0	NS	NS	NS	NS	NS	<20.0	<8.0	<20.0	<8.0	<4.0	<4.0	<4.0	<1.0	<40.0	<2.0	NA*
2-Butanone (MEK) 2-Chlorotoluene	4000 NL	<50.0 <10.0	<100 <5.0	<80.0 <4.0	<125 <25.0	<125 <25.0	<5.0 <1.0	<10.0 <2.0	<5.0 <1.0	<5.0 <1.0	<5.0 <1.0	<100 <20.0	<125 <25.0	<10.0 <2.0	<25.0 <5.0	NS NS	NS NS	NS NS	NS NS	NS NS	<20.0 <5.0	<8.0 <2.0	<20.0 <5.0	<8.0 <2.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<40.0 <10.0	24.1 <2.0	NA* NA*
4-Chlorotoluene	NL	<10.0	<5.0	<4.0	<25.0	<25.0	<1.0	<2.0	<1.0	<1.0	<1.0	<20.0	<25.0	<2.0	<5.0	NS	NS	NS	NS	NS	<5.0	<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	<50.0	<100	<80.0	<125	<125	<5.0	<10.0	<5.0	<5.0	<5.0	<100	<125	<10.0	<25.0	NS	NS	NS	NS	NS	<20.0	<8.0	<20.0	<8.0	<4.0	<4.0	<4.0	<4.0	<40.0	<8.0	NA*
Acetone	700	<200	<100	<80.0	<500	<500	<50.0	<40.0	<20.0	<20.0	<20.0	<400	<500	<40.0	<100	NS	NS	NS	NS	NS	<125	<50.0	<125	<50.0	<10.0	<10.0	<10.0	12.9	<100	<20.0	NA*
Allyl chloride Benzene	30 2	<40.0 <10.0	<25.0 <5.0	<20.0 <4.0	<100 <25.0	<100 <25.0	<4.0 <1.0	<8.0 <2.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<80.0 <20.0	<100 <25.0	<8.0 <2.0	<20.0 <5.0	NS NS	NS NS	NS NS	NS NS	NS NS	<20.0 <5.0	<8.0 <2.0	<20.0 <5.0	<8.0 <2.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<40.0 <10.0	<8.0 <2.0	NA* NA*
Bromobenzene	NL	<10.0	<5.0	<4.0	<25.0	<25.0	<1.0	<2.0	<1.0	<1.0	<1.0	<20.0	<25.0	<2.0	<5.0	NS	NS	NS	NS	NS	<5.0	<2.0	<5.0	<2.0	<1.0	<1.0	<1.0	<1.0	<10.0	<2.0	NA*
Bromochloromethane	NL	<10.0	<5.0	<4.0	<25.0	<25.0	<1.0	<2.0	<1.0	<1.0	<1.0	<20.0	<25.0	<2.0	<5.0	NS	NS	NS	NS	NS	<5.0	<2.0	<5.0	<2.0	<1.0	<1.0	<1.0	<1.0	<10.0	<2.0	NA*
Bromodichloromethane	6	<10.0	< 5.0	<4.0	<25.0	<25.0	<1.0	<2.0	<1.0	<1.0	<1.0	<20.0	<25.0	<2.0	<5.0	NS	NS	NS	NS	NS	<5.0	<2.0	<5.0	<2.0	<1.0	<1.0	<1.0	<1.0	<10.0	<2.0	NA*
Bromoform Bromomethane	40 10	<40.0 <40.0	<25.0 <25.0	<20.0 <20.0	<100 <100	<100 <100	<4.0 <4.0	<8.0 <8.0	<4.0 <4.0	<4.0 <4.0	<4.0 <4.0	<80.0 <80.0	<100 <100	<8.0 <8.0	<20.0 <20.0	NS NS	NS NS	NS NS	NS NS	NS NS	<20.0 <20.0	<8.0 <8.0	<20.0 <20.0	<16.0 <8.0	<8.0 <4.0	<8.0 <4.0	<8.0 <4.0	<8.0 <4.0	<80.0 <40.0	<16.0 <8.0	NA* NA*
Carbon tetrachloride	3	<10.0	<5.0	<4.0	<25.0	<25.0	<1.0	<2.0	<1.0	<1.0	<1.0	<20.0	<25.0	<2.0	<5.0	NS	NS	NS	NS	NS	<5.0	<2.0	<5.0	<8.0	<4.0	<4.0	<4.0	<1.0	<40.0	<2.0	NA*
Chlorobenzene	100	<10.0	<5.0	<4.0	<25.0	<25.0	<1.0	<2.0	<1.0	<1.0	<1.0	<20.0	<25.0	<2.0	<5.0	NS	NS	NS	NS	NS	<5.0	<2.0	<5.0	<2.0	<1.0	<1.0	<1.0	<1.0	<10.0	<2.0	NA*
Chloroethane Chloroform	300 30	<10.0 <10.0	<5.0 <25.0	<4.0 <20.0	<25.0 <25.0	<25.0 <25.0	<1.0 <1.0	<2.0 <2.0	<1.0 <1.0	<4.0 <1.0	<1.0 <1.0	<20.0 <20.0	<100 <25.0	<2.0 <2.0	<20.0 <5.0	NS NS	NS NS	NS NS	NS NS	NS NS	<5.0 <5.0	<2.0 <2.0	<5.0 <5.0	<2.0 <2.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<10.0 <10.0	<2.0 <2.0	NA* NA*
Chloromethane	NL	<40.0	<5.0	<4.0	<100	<100	<4.0	<8.0	<4.0	15.4	<4.0	<80.0	<100	<8.0	<20.0	NS	NS	NS	NS	NS	<20.0	<8.0	<20.0	<8.0	<4.0	<4.0	<4.0	<4.0	<40.0	<8.0	NA*
cis-1,2-Dichloroethene	50	<10.0	<5.0	<4.0	<25.0	<25.0	2.3	<2.0	<1.0	1.7	1.7	<20.0	<25.0	<2.0	<5.0	NS	NS	NS	NS	NS	<5.0	<2.0	<5.0	<2.0	<1.0	<1.0	<1.0	<1.0	<10.0	<2.0	<100
cis-1,3-Dichloropropene	NL	<40.0	<25.0	<20.0	<100	<100	<4.0	<8.0	<4.0	<4.0	<4.0	<80.0	<100	<8.0	<20.0	NS	NS	NS	NS	NS	<20.0	<8.0	<20.0	<8.0	<4.0	<4.0	<4.0	<4.0	<40.0	<8.0	NA*
Dibromochloromethane Dibromomethane	10 NL	<10.0 <40.0	<25.0	<20.0	<25.0 <100	<25.0 <100	<1.0 <4.0	<2.0 <8.0	<1.0 <4.0	<1.0	<1.0	<20.0 <80.0	<25.0 <100	<2.0	<5.0	NS NS	NS NS	NS NS	NS NS	NS NS	<5.0 <20.0	<2.0 <8.0	<5.0 <20.0	<2.0 <8.0	<1.0	<1.0	<1.0	<1.0	<10.0 <10.0	<2.0 <2.0	NA* NA*
Dichlorodifluoromethane	1000	<10.0	<5.0 <5.0	<4.0 <4.0	<25.0	<25.0	<1.0	<2.0	<1.0	<4.0 <1.0	<4.0 <1.0	<20.0	<25.0	<8.0 <2.0	<20.0 <5.0	NS	NS	NS	NS	NS	<5.0	<2.0	<5.0	<2.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<1.0 <1.0	<10.0	<2.0	NA*
Dichlorofluoromethane	NL	<10.0	<5.0	<4.0	<25.0	<25.0	<1.0	<2.0	<1.0	<1.0	<1.0	<20.0	<25.0	<2.0	<5.0	NS	NS	NS	NS	NS	<5.0	<2.0	<5.0	<2.0	<1.0	<1.0	<1.0	<1.0	<10.0	<2.0	NA*
Diethyl ether (Ethyl ether)	1000	<40.0	<25.0	<20.0	<100	<100	<4.0	<8.0	<4.0	<4.0	<4.0	<80.0	<100	<8.0	<20.0	NS	NS	NS	NS	NS	<20.0	<8.0	<20.0	<8.0	<4.0	<4.0	<4.0	<4.0	<40.0	<8.0	NA*
Ethylbenzene Hexachloro-1,3-butadiene	700 1	<10.0 <40.0	<5.0 <25.0	<4.0 <20.0	<25.0 <25.0	<25.0 <25.0	<1.0 <1.0	<2.0 <2.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<20.0 <20.0	<25.0 <25.0	<2.0 <2.0	<5.0 <25.0	NS NS	NS NS	NS NS	NS NS	NS NS	<5.0 <25.0	<2.0 <10.0	<5.0 <25.0	<2.0 <8.0	<1.0 <4.0	<1.0 <4.0	<1.0 <4.0	<1.0 <4.0	<10.0 <40.0	<2.0 <8.0	NA* NA*
Isopropylbenzene (Cumene)	300	<10.0	<5.0	<4.0	<25.0	<25.0	<1.0	<2.0	<1.0	<1.0	<1.0	<20.0	<25.0	<2.0	<5.0	NS	NS	NS	NS	NS	<5.0	<2.0	<5.0	<2.0	<1.0	<1.0	<1.0	<1.0	<10.0	<2.0	NA*
m&p-Xylene	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NS	NS	NS	NS	NS	<10.0	<4.0	<10.0	<4.0	<2.0	<2.0	<2.0	<2.0	<20.0	<4.0	NA*
Methylene Chloride	5	<40.0	<5.0	<4.0	<100	<100	<4.0	<8.0	<4.0	<4.0	<4.0	<80.0	<100	<8.0	<20.0	NS	NS	NS	NS	NS	<20.0	<8.0	<20.0	<8.0	<4.0	<4.0	<4.0	<4.0	<40.0	<8.0	NA*
Methyl-tert-butyl ether Naphthalene	70 300	<10.0 <40.0	<5.0 <25.0	<4.0 <20.0	<25.0 <100	<25.0 <100	<1.0 <4.0	<2.0 <8.0	<1.0 <4.0	<1.0 <4.0	<1.0 <4.0	<20.0 <80.0	<25.0 <100	<2.0 <8.0	<5.0 <20.0	NS NS	NS NS	NS NS	NS NS	NS NS	<5.0 <20.0	<2.0 <8.0	<5.0 <20.0	<2.0 <8.0	<1.0 <4.0	<1.0 <4.0	<1.0 <4.0	<1.0 <4.0	<10.0 <40.0	<2.0 <8.0	NA* NA*
n-Butylbenzene	NL	<10.0	<5.0	<4.0	<25.0	<25.0	<1.0	<2.0	<1.0	<1.0	<1.0	<20.0	<25.0	<2.0	<5.0	NS	NS	NS	NS	NS	<5.0	<2.0	<5.0	<2.0	<1.0	<1.0	<1.0	<1.0	<10.0	<2.0	NA*
n-Propylbenzene	NL	<10.0	<5.0	<4.0	<25.0	<25.0	<1.0	<2.0	<1.0	<1.0	<1.0	<20.0	<25.0	<2.0	<5.0	NS	NS	NS	NS	NS	<5.0	<2.0	<5.0	<2.0	<1.0	<1.0	<1.0	<1.0	<10.0	<2.0	NA*
o-Xylene	NL N''	NA -10.0	NA 45.0	NA -1.0	NA -25.0	NA -25.0	NA -1.0	NA 12.0	NA -1.0	NA 11.0	NA -1.0	NA 20.0	NA -25.0	NA -2.0	NA -E O	NS	NS	NS	NS	NS	<5.0	<2.0	<5.0	<2.0	<1.0	<1.0	<1.0	<1.0	<10.0	<2.0	NA*
p-Isopropyltoluene sec-Butylbenzene	NL NL	<10.0 <10.0	<5.0 <25.0	<4.0 <20.0	<25.0 <25.0	<25.0 <25.0	<1.0 <1.0	<2.0 <2.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<20.0 <20.0	<25.0 <25.0	<2.0 <2.0	<5.0 <5.0	NS NS	NS NS	NS NS	NS NS	NS NS	<5.0 <5.0	<2.0 <2.0	<5.0 <5.0	<2.0 <2.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<10.0 <10.0	<2.0 <2.0	NA* NA*
Styrene	NL	<10.0	<5.0	<4.0	<25.0	<25.0	<1.0	<2.0	<1.0	<1.0	<1.0	<20.0	<25.0	<2.0	<5.0	NS	NS	NS	NS	NS	<5.0	<2.0	<5.0	<2.0	<1.0	<1.0	<1.0	<1.0	<10.0	<2.0	NA*
tert-Butylbenzene	NL	<10.0	<5.0	<4.0	<25.0	<25.0	<1.0	<2.0	<1.0	<1.0	<1.0	<20.0	<25.0	<2.0	<5.0	NS	NS	NS	NS	NS	<5.0	<2.0	<5.0	<2.0	<1.0	<1.0	<1.0	<1.0	<10.0	<2.0	NA*
Tetrachloroethene	5	808	503	288	2700	2350	2980	221	1230	1130	5610	2390	2450	291	4240	NS	NS	NS	NS	NS	389	700	698	415	262	131	66.9	90.3	1,480		14,200
Tetrahydrofuran Toluene	100 1000	<100 <10.0	<25.0 <5.0	<20.0 <4.0	<250 <25.0	<250 <25.0	<10.0 <1.0	<20.0 <2.0	<10.0 <1.0	<10.0 <1.0	17.4 <1.0	<200 <20.0	<250 <25.0	<20.0 <2.0	112 <5.0	NS NS	NS NS	NS NS	NS NS	NS NS	<50.0 <5.0	<20.0 <2.0	<50.0 <5.0	<20.0 <2.0	<10.0 <1.0	<10.0 <1.0	<10.0 <1.0	18.4 <1.0	<100 <10.0	46.1 <2.0	NA* NA*
trans-1,2-Dichloroethene	1000	<10.0	<5.0 <5.0	<4.0	<25.0	<25.0	<1.0	<2.0	<1.0	<1.0	<1.0	<20.0	<25.0	<2.0	<5.0 <5.0	NS	NS	NS	NS	NS	<20.0	<2.0 <8.0	<20.0	<2.0	<1.0	<1.0	<1.0	<1.0	<10.0	<2.0	<100
trans-1,3-Dichloropropene	NL	<40.0	<100	<80.0	<100	<100	<4.0	<8.0	<4.0	<4.0	<4.0	<80.0	<100	<8.0	<20.0	NS	NS	NS	NS	NS	<20.0	<8.0	<20.0	<8.0	<4.0	<4.0	<4.0	<4.0	<40.0	<8.0	NA*
Trichloroethene	5	<4.0	<5.0	<4.0	<10.0	<10.0	3.1	0.84	1.8	2.0	4.1	<8.0	<25.0	<0.80	<5.0	NS	NS	NS	NS	NS	<5.0	<2.0	<5.0	<2.0	<1.0	<1.0	<1.0	<1.0	<10.0	<2.0	<100
Trichlorofluoromethane	2000	<10.0	<5.0	<4.0	<25.0	<25.0	<1.0	<2.0	<1.0	<1.0	<1.0	<20.0	<25.0	<2.0	<5.0	NS	NS	NS	NS	NS	<5.0	<2.0	<5.0	<2.0	<1.0	<1.0	<1.0	<1.0	<10.0	<2.0	NA*
Vinyl chloride Xylene (Total)	0.2 10000	<4.0 <30.0	<5.0 <15.0	<4.0 <12.0	<10.0 <75.0	<10.0 <3.0	<0.40 <3.0	<0.80 <6.0	<0.40 <3.0	<0.40 <3.0	<1.0 <3.0	<8.0 <60.0	<10.0 <75.0	<0.80 <6.0	<2.0 <15.0	NS NS	NS NS	NS NS	NS NS	NS NS	<2.0 <15.0	<0.80 <6.0	<2.0 <15.0	<0.80 <6.0	<0.40 <3.0	<0.40 <3.0	<0.40 <3.0	<0.40 <3.0	<4.0 <30.0	<0.80 <6.0	<40.0 NA*
Notes:	10000	<.00.0	<10.U	< 1∠.U	₹10.0	∖ 3.∪	√ J.∪	∖∪. ∪	₹ J.U	∖ 3.0	∖ 3.0	₹00.0	<10.U	₹0.0	<10.U	CVI	OVI	INO	OVI	IVO	<13.0	₹ 0.0	\ 1J.U	∖∪. ∪	∖ J.U	∖ J.∪	∖ J.∪	₹ 0.0	₹ 00.0	₹ 0.0	INA

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

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

Sample ID	MDH Health Risk Limits	MW-14	MW-14	MW-14	MW-14	MW-14	MW-14	MW-14	MW-14	MW-14	MW-14	MW-14	MW-14												MW-14						MW-14
Collected Date and Time	5/09	5/17/2016	2/23/2016	1/11/2016	12/14/2015	8/18/2015	6/15/2015	3/3/2015	11/19/2014	8/21/2014	4/20/2014	2/17/2014	12/10/2013	3 08/26/13	05/23/13	02/25/13	12/21/12	09/26/12	05/17/12	02/16/12	11/21/11	08/28/11	05/19/11	03/01/11	11/18/10	08/18/10	05/12/10	02/23/10	11/16/09	10/01/09 1	
1,1,1,2-Tetrachloroethane	70	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
1,1,1-Trichloroethane 1,1,2,2-Tetrachloroethane	9000	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0	<1.0 ~1.0	<1.0 ~1.0	<1.0 ~1.0	<1.0	<1.0 <1.0	<1.0 ~1.0	<1.0 <1.0	NA* NA*								
1,1,2-Trichloroethane	3	<1.0	<1.0	<1.0	<1.0	<1.0 <1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0	<1.0 <1.0	<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	<5.0	<5.0	<1.0	<1.0	<1.0	6.6	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<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	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<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	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1-Dichloropropene	NL NI	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
1,2,3-Trichlorobenzene 1,2,3-Trichloropropane	NL 40	<1.0 <4.0	<5.0 <1.0	<5.0 <1.0	<1.0 <4.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	NA* NA*																			
1,2,4-Trichlorobenzene	NL	<1.0	<5.0	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
1,2,4-Trimethylbenzene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
1,2-Dibromo-3-chloropropane	NL	<4.0	<5.0	<5.0	<4.0	<4.0	<10.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<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	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<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	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
1,2-Dichloroethane 1,2-Dichloropropane	5	<1.0 <4.0	<1.0 <1.0	<1.0 <1.0	<1.0 <4.0	<1.0 <1.0	NA* NA*																								
1,3,5-Trimethylbenzene	100	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<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	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<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	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<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	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
2,2-Dichloropropane 2-Butanone (MEK)	NL 4000	<4.0 <5.0	<1.0 <20.0	<1.0 <20.0	<4.0 <5.0	<4.0 <4.0	<1.0 <4.0	<4.0 <4.0	<1.0 <4.0	NA* NA*																					
2-Chlorotoluene	NL	<5.0 <1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0 <1.0	<5.0 <1.0	<1.0	<5.0 <1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<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	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
4-Methyl-2-pentanone (MIBK)	300	<5.0	<20.0	<20.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	NA*
Acetone	700	<20.0	<20.0	<20.0	<20.0	<20.0	<50.0	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	NA*
Allyl chloride	30	<4.0	<5.0	<5.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	NA*
Benzene Bromobenzene	NL	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	NA* NA*
Bromochloromethane	NL NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<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	<1.0	<1.0	<1.0	<1.0	1.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	1.1	<1.0	<1.0	<1.0	NA*
Bromoform	40	<4.0	<5.0	<5.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<8.0	<8.0	<8.0	<8.0	<8.0	<8.0	<8.0	NA*
Bromomethane	10	<4.0	<5.0	<5.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	NA*
Carbon tetrachloride Chlorobenzene	100	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<1.0 <1.0	<4.0 <1.0	<1.0 <1.0	NA* NA*
Chloroethane	300	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<4.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
Chloroform	30	<4.0	<5.0	<5.0	1.8	1.4	2.0	1.6	2.2	1.5	1.9	2.2	1.6	2.3	3.5	2.0	2.1	1.6	1.4	1.2	1.4	1.6	1.9	2.3	3.5	3.0	4.1	3.2	2.7	3.7	NA*
Chloromethane	NL	<4.0	<1.0	<1.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<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	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
cis-1,3-Dichloropropene	NL	<4.0	<5.0	<5.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	NA*
Dibromochloromethane Dibromomethane	10 NL	<1.0 <4.0	<5.0 <1.0	<5.0 <1.0	<1.0 <4.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	NA* NA*																						
Dichlorodifluoromethane	1000	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<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	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
Diethyl ether (Ethyl ether)	1000	<4.0	<5.0	<5.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<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	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
Hexachloro-1,3-butadiene	1 300	<1.0	<5.0	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	NA* NA*
Isopropylbenzene (Cumene) m&p-Xylene	NI	<1.0 NA	<1.0 NA	<1.0 NA	<1.0 NA	<1.0 NA	<1.0 NA	<1.0 NA	<1.0 NA	<1.0 NA	<1.0 NA	<1.0 NA	<1.0 NA	<1.0 NA	<1.0 NA	<1.0 <4.0	<1.0 <2.0	NA*													
Methylene Chloride	5	<4.0	<1.0	<1.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<1.0	<4.0	<4.0	<4.0	<4.0	<4.0	<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	<1.0	<1.0	<1.0	<1.0	<1.0	NA	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
Naphthalene	300	<4.0	<5.0	<5.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<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	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
n-Propylbenzene	NL NI	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
o-Xylene p-Isopropyltoluene	NL NL	NA <1.0	NA <1.0	NA <1.0	NA <1.0	NA <1.0	NA <1.0	NA <1.0	NA <1.0	NA <1.0	NA <1.0	NA <1.0	NA <1.0	NA <1.0	NA <1.0	NA <1.0	<1.0 <1.0	NA* NA*													
sec-Butylbenzene	NL NL	<1.0	<5.0	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
Styrene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<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	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
Tetrachloroethene	5	35.7	2.8	11.1	88.3	4.1	60.4	244	2.9	1.4	5.7	3.1	1.5	1.2	2.2	<1.0	1.3	<1.0	<1.0	<1.0	1.5	1.5	5.0	4.8	6.6	1.8	3.1	3.0	7.1	4.2	30.6
Tetrahydrofuran	100	<10.0	<5.0	<5.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<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	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
trans-1,2-Dichloroethene trans-1,3-Dichloropropene	100 NL	<1.0 <4.0	<1.0 <20.0	<1.0 <20.0	<1.0 <4.0	<4.0 <4.0	<4.0 <4.0	<4.0 <4.0	<1.0 <4.0	<1.0 NA*																					
Trichloroethene	5	<0.40	<1.0	<1.0	<0.40	<0.40	<0.40	0.49	<0.40	<0.40	<1.0	<0.40	<0.40	<0.40	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<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	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
Vinyl chloride	0.2	<0.40	<1.0	<1.0	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<1.0	<0.40	< 0.40	<0.40	<0.40	<0.40	<0.40	< 0.40	<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)	10000	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<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 NS: Not Sampled

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

5.2 Parameter detected above MDH

Rochester, Minnesota

Sample ID	MDH Health	MW-15 MW-15	MW-15	MW-15	MW-15	MW-15	MW-15	MW-15	MW-15	MW-15	MW-15	MW-15	MW-15	MW-15	MW-15	MW-15	MW-15	MW-15	MW-15	MW-15	MW-15										
Collected Date and Time	Risk Limits 5/09	05/17/16	02/23/16	01/11/16	12/14/15	08/18/15	06/15/15	03/03/15	11/19/14	NR/21/14	05/20/14	02/17/14	12/10/13	08/26/13	05/23/13	02/25/13	12/19/12	09/26/12	05/17/12	02/16/12	11/21/11	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 1	2/10/08
1,1,1,2-Tetrachloroethane	70	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<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	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<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	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<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	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
1,1,2-Trichlorotrifluoroethane	200000	<1.0	<5.0	<5.0	<1.0	<1.0	<1.0	1.7	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	1.1	<1.0	<1.0	2.0	<1.0 L	1.5	3.3	6.4	6.4	NA*
1,1-Dichloroethane 1,1-Dichloroethene	70 6	<1.0 <1.0 <1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	NA* <1.0										
1,1-Dichloropropene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
1,2,3-Trichlorobenzene	NL	<1.0	<5.0	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
1,2,3-Trichloropropane	40	<4.0	<1.0	<1.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
1,2,4-Trichlorobenzene 1,2,4-Trimethylbenzene	NL NL	<1.0 <1.0	<5.0	<5.0 <1.0	<1.0	<1.0	<1.0 <1.0	<1.0 <1.0	<1.0	<1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0	<1.0	<1.0	<1.0 <1.0	<1.0	<1.0	<1.0 <1.0	<1.0 <1.0	<1.0	<1.0	NA* NA*
1,2-Dibromo-3-chloropropane	NL	<4.0	<1.0 <5.0	<5.0	<1.0 <4.0	<1.0 <4.0	<10.0	<4.0	<1.0 <4.0	<1.0 <4.0	<4.0	<4.0	<4.0	<4.0	<1.0 <4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<1.0 <4.0	<1.0 <4.0	<1.0 <4.0	<4.0	<1.0 <4.0	<1.0 <4.0	<4.0	<4.0	<1.0 <4.0	<1.0 <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	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<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	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<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	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
1,2-Dichloropropane 1,3,5-Trimethylbenzene	5 100	<4.0	<1.0 <1.0	<1.0	<4.0 ~1.0	<4.0 ~1.0	<4.0 <1.0	<4.0 ~1.0	<4.0 <1.0	<4.0 ~1.0	<4.0 <1.0	<4.0 ~1.0	<4.0 ~1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 ~1.0	<4.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0	<1.0 <1.0	NA* NA*
1,3,5-1 rimethylbenzene 1.3-Dichlorobenzene	NL	<1.0 <1.0 <1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0	<1.0 <1.0	<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	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<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	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
2,2-Dichloropropane	NL 4000	<4.0	<1.0	<1.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<1.0	<4.0	<1.0	NA*
2-Butanone (MEK) 2-Chlorotoluene	4000 NL	<5.0 <1.0	<20.0 <1.0	<20.0 <1.0	<5.0 <1.0 <5.0 <1.0	<5.0 <1.0	<5.0 <1.0	<5.0 <1.0	<5.0 <1.0	<4.0 <1.0	<4.0 L <1.0	5.1 <1.0	<4.0 <1.0	NA* NA*																	
4-Chlorotoluene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
4-Methyl-2-pentanone (MIBK)	300	<5.0	<20.0	<20.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	< 5.0	<5.0	<5.0	<5.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	NA*
Acetone	700	<20.0	<20.0	<20.0	<20.0	<20.0	<50.0	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	NA*
Allyl chloride	30	<4.0	< 5.0	< 5.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	NA*
Benzene Bromobenzene	2 NL	<1.0 <1.0 <1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	NA* NA*										
Bromochloromethane	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<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	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
Bromoform	40	<4.0	<5.0	<5.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<8.0	<8.0	<8.0	<8.0	<8.0	<8.0	<8.0	NA*
Bromomethane Carbon tetrachloride	10 3	<4.0	<5.0	<5.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0 <4.0	<4.0	<4.0	<4.0 <4.0	<4.0	<4.0 <4.0	<4.0	NA* NA*
Chlorobenzene	100	<1.0 <1.0 <1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0	<4.0 <1.0	<4.0 <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	<4.0	<1.0	<1.0	<1.0	<1.0	<4.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
Chloroform	30	<1.0	<5.0	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	1.0	2.8	1.2	1.8	<1.0	1.3	1.4	2.2	2.2	NA*
Chloromethane	NL	<4.0	<1.0	<1.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	NA*
cis-1,2-Dichloroethene cis-1,3-Dichloropropene	50 NL	<1.0 <4.0	<1.0 <5.0	<1.0 <5.0	<1.0 <4.0	<1.0 <4.0	<1.0 <4.0	<1.0 <4.0	<1.0 <4.0	<1.0	<1.0 <4.0	<1.0 <4.0	<1.0 <4.0	<1.0 <4.0	<1.0 <4.0	<1.0 <4.0	<1.0 <4.0	<1.0 <4.0	<1.0 <4.0	<1.0 <4.0	<1.0 <4.0	<1.0 <4.0	<1.0 <4.0	<1.0 <4.0	<1.0 <4.0	<1.0 <4.0	<1.0 <4.0	<1.0 <4.0	<1.0 <4.0	<1.0 <4.0	<1.0 NA*
Dibromochloromethane	10	<1.0	<5.0	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<4.0 <1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
Dibromomethane	NL	<4.0	<1.0	<1.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<1.0	<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	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
Dichlorofluoromethane	NL 1000	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
Diethyl ether (Ethyl ether) Ethylbenzene	1000 700	<4.0 <1.0	<5.0 <1.0	<5.0 <1.0	<4.0 <1.0 <4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	NA* NA*							
Hexachloro-1,3-butadiene	1	<1.0	<5.0	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<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	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
m&p-Xylene	NL	NA NA	NA	NA	NA	<4.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	NA*										
Methylene Chloride	5	<4.0	<1.0	<1.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<1.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	6.4	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	NA*
Methyl-tert-butyl ether Naphthalene	70 300	<1.0	<1.0 <5.0	<1.0 <5.0	<1.0 <4.0 <1.0 <4.0	<1.0 <4.0	<1.0 <4.0	<1.0 <4.0	NA <4.0	<1.0	<1.0 <4.0	<1.0 <4.0	<1.0 <4.0	NA* NA*																	
n-Butylbenzene	NL	<4.0 <1.0	<5.0 <1.0	<1.0	<4.0 <1.0 <4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	NA*							
n-Propylbenzene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
o-Xylene	NL	NA NA	NA	NA	NA	NA	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*										
p-Isopropyltoluene	NL NI	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
sec-Butylbenzene Styrene	NL NL	<1.0 <1.0	<5.0	<5.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0	<1.0	<1.0	<1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0	<1.0 <1.0	<1.0	<1.0	<1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0	<1.0	<1.0	<1.0 <1.0	NA* NA*
Styrene tert-Butylbenzene	NL NL	<1.0	<1.0 <1.0 <1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	NA*									
Tetrachloroethene	5	26.4	1.1	11.9	194	1.8	101	85.2	<1.0	<1.0	1.6	<1.0	<1.0	<1.0	3.9	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	1.2	<1.0	<1.0	3.3	1.3	2.8	5.7	9.5	15.7	104
Tetrahydrofuran	100	<10.0	<5.0	<5.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<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	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
trans-1,2-Dichloroethene	100	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<4.0	<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 5	<4.0	<20.0	<20.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0 <1.0	<4.0 <1.0	<4.0 ~1.0	<4.0 <1.0	<4.0	<4.0	<4.0	NA*
Trichloroethene Trichlorofluoromethane	2000	<0.40 <1.0	<1.0 <1.0	<1.0 <1.0	<0.40 <1.0	<0.40 <1.0	<0.40 <1.0	<0.40 <1.0	<0.40 <1.0	<0.40 <1.0	<1.0 <1.0	<0.40 <1.0	<0.40 <1.0	<0.40 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 NA*													
Vinyl chloride	0.2	<0.40	<1.0	<1.0	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<1.0	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<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)	10000	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<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 NS: Not Sampled

Rochester, Minnesota

Sample ID	MDH Health	MW-16	MW-16	MW-16	MW-16	MW-16	MW-16	MW-16	MW-16	MW-16	MW-16	MW-16	MW-16	MW-16	MW-16	MW-16	MW-16	MW-16	MW-16	MW-16	MW-16	MW-16	MW-16	MW-16	MW-16	MW-16	MW-16	MW-16	MW-16	MW-16	MW-16
Collected Date and Time	Risk Limits 5/09	05/17/16	02/23/16	01/11/16	12/14/15	08/18/15	06/15/15	02/25/15	11/19/14	08/21/14	05/20/14	02/17/14	12/10/13	08/26/13	05/23/13	02/25/13	12/19/12	09/26/12	05/17/12	02/16/12	11/21/11	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 1	12/03/08
1,1,1,2-Tetrachloroethane	70	<10.0	<5.0	<2.0	<25.0	<25.0	<25.0	<5.0	<25.0	<5.0	<1.0	<5.0	<5.0	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<2.0	<2.0	<5.0	<5.0	<10.0	<50.0	<250	<10.0	NA*
1,1,1-Trichloroethane	9000	<10.0	<5.0	<2.0	<25.0	<25.0	<25.0	<5.0	<25.0	<5.0	<1.0	<5.0	<5.0	<5.0	10.7	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<2.0	<2.0	<5.0	<5.0	<10.0	<50.0	<250	<10.0	NA*
1,1,2,2-Tetrachloroethane	2	<10.0	<5.0	<2.0	<25.0	<25.0	<25.0	<5.0	<25.0	<5.0	<1.0	<5.0	<5.0	< 5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<2.0	<2.0	<5.0	<5.0	<10.0	<50.0	<250	<10.0	NA*
1,1,2-Trichloroethane	3	<10.0	<5.0	<2.0	<25.0	<25.0	<25.0	<5.0	<25.0	< 5.0	<1.0	<5.0	<5.0	< 5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<2.0	<2.0	<5.0	<5.0	<10.0	<50.0	<250	<10.0	NA*
1,1,2-Trichlorotrifluoroethane	200000	32.5	38.9	21.5	150	332	60.7	83.5	237	382	78.9	28.1	25.6	33.0	1050	<1.0	7.3	1.3	<1.0	<1.0	3.1	19.7	43.6	23.0	127	63.8	39.3	261	1,390	779	NA*
1,1-Dichloroethane	70	<10.0	<5.0	<2.0	<25.0	<25.0	<25.0	<5.0	<25.0	<5.0	<1.0	<5.0	<5.0	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<2.0	<2.0	<5.0	<5.0	<10.0	<50.0	<250	<10.0	NA*
1,1-Dichloroethene	6	<10.0	<5.0	<2.0	<25.0	<25.0	<25.0	<5.0	<25.0	<5.0	<1.0	<5.0	<5.0	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<2.0	<2.0	<5.0	<5.0	<10.0	<50.0	<250	<10.0	<1.0
1,1-Dichloropropene	NL	<10.0	<5.0	<2.0	<25.0	<25.0	<25.0	<5.0	<25.0	<5.0	<1.0	<5.0	<5.0	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<2.0	<2.0	<5.0	<5.0	<10.0	<50.0	<250	<10.0	NA*
1,2,3-Trichlorobenzene	NL	<10.0	<25.0	<10.0	<25.0	<25.0	<25.0	<5.0	<25.0	<5.0	<1.0	<5.0	<5.0	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<2.0	<2.0	<5.0	<5.0	<10.0	<50.0	<250	<10.0	NA*
1,2,3-Trichloropropane	40	<40.0	<5.0	<2.0	<100	<100	<100	<20.0	<100	<20.0	<4.0	<20.0	<20.0	<20.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<8.0	<8.0	<8.0	<5.0	<5.0	<10.0	<50.0	<250	<10.0	NA*
1,2,4-Trichlorobenzene	NL	<10.0	<25.0	<10.0	<25.0	<25.0	<25.0	<5.0	<25.0	<5.0	<1.0	<5.0	<5.0	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<2.0	<2.0	<5.0	<5.0	<10.0	<50.0	<250	<10.0	NA*
1,2,4-Trimethylbenzene	NL NI	<10.0	<5.0	<2.0	<25.0	<25.0	<25.0	<5.0	<25.0	<5.0	<1.0	<5.0	<5.0	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<2.0	<2.0	<5.0	<5.0	<10.0	<50.0	<250	<10.0	NA*
1,2-Dibromo-3-chloropropane	NL 004	<40.0	<25.0	<10.0	<100	<100	<250	<20.0	<100	<20.0	<4.0	<20.0	<20.0	<20.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<8.0	<8.0	<8.0	<20.0	<20.0	<40.0	<200	<1000	<40.0	NA*
1,2-Dibromoethane (EDB) 1,2-Dichlorobenzene	.004 600	<10.0 <10.0	<5.0 <5.0	<2.0 <2.0	<25.0 <25.0	<25.0 <25.0	<25.0 <25.0	<5.0 <5.0	<25.0 <25.0	<5.0 <5.0	<1.0 <1.0	<5.0 <5.0	<5.0 <5.0	<5.0 <5.0	<1.0	<1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<2.0 <2.0	<2.0 <2.0	<2.0 <2.0	<5.0 <5.0	<5.0 <5.0	<10.0	<50.0 <50.0	<250 <250	<10.0 <10.0	NA* NA*
1,2-Dichloroethane	4	<10.0	<5.0	<2.0	<25.0	<25.0	<25.0	<5.0	<25.0	<5.0	<1.0	<5.0	<5.0	<5.0	<1.0 <1.0	<1.0 <1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<2.0	<2.0	<5.0	<5.0	<10.0 <10.0	<50.0	<250	<10.0	NA*
1,2-Dichloropropane	5	<40.0	<5.0	<2.0	<100	<100	<100	<20.0	<100	<20.0	<4.0	<20.0	<20.0	<20.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<8.0	<8.0	<2.0	<5.0	<5.0	<10.0	<50.0	<250	<10.0	NA*
1,3,5-Trimethylbenzene	100	<10.0	<5.0	<2.0	<25.0	<25.0	<25.0	<5.0	<25.0	<5.0	<1.0	<5.0	<5.0	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<2.0	<2.0	<5.0	<5.0	<10.0	<50.0	<250	<10.0	NA*
1,3-Dichlorobenzene	NL	<10.0	<5.0	<2.0	<25.0	<25.0	<25.0	<5.0	<25.0	<5.0	<1.0	<5.0	<5.0	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<2.0	<2.0	<5.0	<5.0	<10.0	<50.0	<250	<10.0	NA*
1,3-Dichloropropane	NL	<10.0	<5.0	<2.0	<25.0	<25.0	<25.0	<5.0	<25.0	<5.0	<1.0	<5.0	<5.0	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<2.0	<2.0	<5.0	<5.0	<10.0	<50.0	<250	<10.0	NA*
1,4-Dichlorobenzene	10	<10.0	<5.0	<2.0	<25.0	<25.0	<25.0	<5.0	<25.0	<5.0	<1.0	<5.0	<5.0	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<2.0	<2.0	<5.0	<5.0	<10.0	<50.0	<250	<10.0	NA*
2,2-Dichloropropane	NL	<40.0	<5.0	<2.0	<100	<100	<100	<20.0	<100	<20.0	<4.0	<20.0	<20.0	<20.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<8.0	<8.0	<8.0	<20.0	<20.0	<40.0	<200	<1000	<10.0	NA*
2-Butanone (MEK)	4000	<50.0	<100	<40.0	828	<125	<125	<25.0	<125	<25.0	< 5.0	<25.0	<25.0	<25.0	< 5.0	<5.0	<4.0	<4.0	<4.0	<4.0	<4.0	<8.0	<8.0	<8.0	<20.0	<20.0	<40.0	<200	<1000	<40.0	NA*
2-Chlorotoluene	NL	<10.0	<5.0	<2.0	<25.0	<25.0	<25.0	<5.0	<25.0	<5.0	<1.0	<5.0	<5.0	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<2.0	<2.0	<5.0	<5.0	<10.0	<50.0	<250	<10.0	NA*
4-Chlorotoluene	NL	<10.0	<5.0	<2.0	<25.0	<25.0	<25.0	<5.0	<25.0	<5.0	<1.0	<5.0	<5.0	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<2.0	<2.0	<5.0	<5.0	<10.0	<50.0	<250	<10.0	NA*
4-Methyl-2-pentanone (MIBK)	300	<50.0	<100	<40.0	<125	<125	<125	<25.0	<125	<25.0	<5.0	<25.0	<25.0	<25.0	<5.0	<5.0	<4.0	<4.0	<4.0	<4.0	<4.0	<8.0	<8.0	<8.0	<20.0	<20.0	<40.0	<200	<1000	<40.0	NA*
Acetone	700	<200	<100	<40.0	<500	<500	<1250	<100	<500	<100	<20.0	<100	<100	<100	<20.0	<20.0	<25.0	<25.0	<25.0	<25.0	<25.0	<50.0	<50.0	<50.0	<50.0	<50.0	<100	<500	<2500	<100	NA*
Allyl chloride	30	<40.0	<25.0	<10.0	<100	<100	<100	<20.0	<100	<20.0	<4.0	<20.0	<20.0	<20.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<8.0	<8.0	<8.0	<20.0	<20.0	<40.0	<200	<1000	<40.0	NA*
Benzene	2	<10.0	<5.0	<2.0	<25.0	<25.0	<25.0	<5.0	<25.0	<5.0	<1.0	<5.0	<5.0	< 5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<2.0	<2.0 <2.0	<5.0	<5.0	<10.0	<50.0	<250	<10.0	NA*
Bromobenzene Bromochloromothono	NL NL	<10.0	<5.0	<2.0	<25.0	<25.0	<25.0 <25.0	<5.0	<25.0	<5.0	<1.0	<5.0 <5.0	<5.0 <5.0	<5.0 <5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<2.0 <2.0	<2.0 <2.0	<5.0	<5.0 <5.0	<10.0	<50.0	<250 <250	<10.0 <10.0	NA* NA*
Bromochloromethane Bromodichloromethane	6	<10.0 <10.0	<5.0 <5.0	<2.0 <2.0	<25.0 <25.0	<25.0 <25.0	<25.0	<5.0 <5.0	<25.0 <25.0	<5.0 <5.0	<1.0 <1.0	<5.0	<5.0	<5.0	<1.0 <1.0	<2.0 <2.0	<2.0	<2.0	<5.0 <5.0	<5.0	<10.0 <10.0	<50.0 <50.0	<250	<10.0	NA*						
Bromoform	40	<40.0	<25.0	<10.0	<100	<100	<100	<20.0	<100	<20.0	<4.0	<20.0	<20.0	<20.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<8.0	<8.0	<16.0	<40.0	<40.0	<80.0	<400	<2000	<80.0	NA*
Bromomethane	10	<40.0	<25.0	<10.0	<100	<100	<100	<20.0	<100	<20.0	<4.0	<20.0	<20.0	<20.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<8.0	<8.0	<20.0	<20.0	<20.0	<40.0	<200	<1000	<40.0	NA*
Carbon tetrachloride	3	<10.0	<5.0	<2.0	<25.0	<25.0	<25.0	<5.0	<25.0	<5.0	<1.0	<5.0	<5.0	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<2.0	<8.0	<20.0	<20.0	<40.0	<200	<1000	<10.0	NA*
Chlorobenzene	100	<10.0	< 5.0	<2.0	<25.0	<25.0	<25.0	<5.0	<25.0	<5.0	<1.0	< 5.0	<5.0	< 5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<2.0	<2.0	<5.0	<5.0	<10.0	<50.0	<250	<10.0	NA*
Chloroethane	300	<10.0	<5.0	<2.0	<25.0	<25.0	<25.0	<5.0	<25.0	<20.0	<1.0	<5.0	<5.0	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<2.0	<2.0	<5.0	<5.0	<10.0	<50.0	<250	<10.0	NA*
Chloroform	30	<40.0	<25.0	<10.0	<25.0	<25.0	<25.0	<5.0	<25.0	<5.0	<1.0	<5.0	<5.0	<5.0	4.5	1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<2.0	<2.0	<5.0	<5.0	<10.0	<50.0	<250	<10.0	NA*
Chloromethane	NL	<40.0	<5.0	<2.0	<100	<100	<100	<20.0	<100	<20.0	<4.0	<20.0	<20.0	456	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<8.0	<8.0	<8.0	<20.0	<20.0	<40.0	<200	<1000	<40.0	NA*
cis-1,2-Dichloroethene	50	<10.0	<5.0	2.3	<25.0	<25.0	<25.0	8.7	<25.0	11.2	6.2	<5.0	<5.0	<5.0	91.8	<1.0	1.7	<1.0	<1.0	<1.0	1.0	7.3	4.1	2.6	12.6	<5.0	<10.0	<50.0	<250	24.0	133
cis-1,3-Dichloropropene	NL	<40.0	<25.0	<10.0	<100	<100	<100	<20.0	<100	<20.0	<4.0	<20.0	<20.0	<20.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<8.0	<8.0	<8.0	<20.0	<20.0	<40.0	<200	<1000	<40.0	NA*
Dibromochloromethane	10	<10.0	<25.0	<10.0	<25.0	<25.0	<25.0	<5.0	<25.0	<5.0	<1.0	<5.0	<5.0	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<2.0	<2.0	<5.0	<5.0	<10.0	<50.0	<250	<10.0	NA*
Dibromomethane	NL	<40.0	<5.0	<2.0	<100	<100	<100	<20.0	<100	<20.0	<4.0	<20.0	<20.0	<20.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<8.0	<8.0	<8.0	<20.0	<20.0	<40.0	<200	<250	<10.0	NA*
Dichlorodifluoromethane	1000	<10.0	<5.0	<2.0	<25.0	<25.0	<25.0	<5.0	<25.0	<5.0	<1.0	<5.0	<5.0	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<2.0	<2.0	<5.0	<5.0	<10.0	<50.0	<250	<10.0	NA*
Dichlorofluoromethane	NL 1000	<10.0	< 5.0	<2.0	<25.0	<25.0	<25.0	< 5.0	<25.0	< 5.0	<1.0	< 5.0	< 5.0	< 5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<2.0	<2.0	<5.0	<5.0	<10.0	<50.0	<250	<10.0	NA*
Diethyl ether (Ethyl ether)	1000	<40.0	<25.0	<10.0	<100	<100	<100	<20.0	<100	<20.0	<4.0	<20.0	<20.0	<20.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<8.0	<8.0 <2.0	<8.0 <2.0	<20.0	<20.0	<40.0	<200	<1000	<40.0	NA*
Ethylbenzene Hexachloro-1,3-butadiene	700 1	<10.0 <10.0	<5.0 <25.0	<2.0 <10.0	<25.0 <25.0	<25.0 <25.0	<25.0 <25.0	<5.0 <5.0	<25.0 <25.0	<5.0 <5.0	<1.0 <1.0	<5.0 <5.0	<5.0 <5.0	<5.0 <5.0	<1.0 <5.0	<2.0 <10.0	<10.0	<8.0	<5.0 <20.0	<5.0 <20.0	<40.0	<50.0 <200	<250 <1000	<10.0 <40.0	NA* NA*						
Isopropylbenzene (Cumene)	300	<10.0	<5.0	<2.0	<25.0	<25.0	<25.0	<5.0	<25.0	<5.0	<1.0	<5.0	<5.0	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<2.0	<2.0	<5.0	<5.0	<10.0	<50.0	<250	<10.0	NA*
m&p-Xylene	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<4.0	<2.0	<2.0	<2.0	<2.0	<2.0	<4.0	<4.0	<4.0	<10.0	<10.0	<20.0	<100	<500	<20.0	NA*
Methylene Chloride	5	<40.0	<5.0	<2.0	<100	<100	<100	<20.0	<100	<20.0	<4.0	<20.0	<20.0	<20.0	<4.0	<1.0	<4.0	<4.0	<4.0	<4.0	<4.0	<8.0	<8.0	<8.0	<20.0	<20.0	<40.0	<200	<1000	<40.0	NA*
Methyl-tert-butyl ether	70	<10.0	<5.0	<2.0	<25.0	<25.0	<25.0	<5.0	<25.0	<5.0	<1.0	<5.0	<5.0	<5.0	<1.0	NA	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<2.0	<2.0	<5.0	<5.0	<10.0	<50.0	<250	<10.0	NA*
Naphthalene	300	<40.0	<25.0	<10.0	<100	<100	<100	<20.0	<100	<20.0	<4.0	<20.0	<20.0	<20.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<8.0	<8.0	<8.0	<20.0	<20.0	<40.0	<200	<1000	<40.0	NA*
n-Butylbenzene	NL	<10.0	<5.0	<2.0	<25.0	<25.0	<25.0	<5.0	<25.0	<5.0	<1.0	<5.0	<5.0	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<2.0	<2.0	<5.0	<5.0	<10.0	<50.0	<250	<10.0	NA*
n-Propylbenzene	NL	<10.0	<5.0	<2.0	<25.0	<25.0	<25.0	<5.0	<25.0	<5.0	<1.0	<5.0	<5.0	< 5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<2.0	<2.0	<5.0	<5.0	<10.0	<50.0	<250	<10.0	NA*
o-Xylene	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<2.0	<2.0	<5.0	< 5.0	<10.0	<50.0	<250	<10.0	NA*
p-Isopropyltoluene	NL	<10.0	<5.0	<2.0	<25.0	<25.0	<25.0	<5.0	<25.0	<5.0	<1.0	<5.0	<5.0	< 5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<2.0	<2.0	<5.0	<5.0	<10.0	<50.0	<250	<10.0	NA*
sec-Butylbenzene	NL	<10.0	<25.0	<10.0	<25.0	<25.0	<25.0	<5.0	<25.0	<5.0	<1.0	<5.0	<5.0	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<2.0	<2.0	<5.0	<5.0	<10.0	<50.0	<250	<10.0	NA*
Styrene	NL	<10.0	<5.0	<2.0	<25.0	<25.0	<25.0	<5.0	<25.0	<5.0	<1.0	<5.0	<5.0	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<2.0	<2.0	<5.0	<5.0	<10.0	<50.0	<250	<10.0	NA*
tert-Butylbenzene	NL	<10.0	<5.0	<2.0	<25.0	<25.0	<25.0	<5.0	<25.0	<5.0	<1.0	<5.0	<5.0	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<2.0	<2.0	<5.0	<5.0	<10.0	<50.0	<250	<10.0	NA*
Tetrachloroethene	5	452	461	290	1490	2790	2650	963	2350	1780	2530	413	432	469	7450	8.0	128	21.8	7.8	16.1	75.0	590	1310	322	2120	696	815	4,390	21,000		14,100
Tetrahydrofuran	100	<100	<25.0	<10.0	<250	<250	<250	<50.0	<250	<50.0	<10.0	<50.0	<50.0	<50.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<20.0	<20.0	<20.0	<50.0	<50.0	<100	<500	<2500	<100	NA*
Toluene	1000	<10.0	<5.0	<2.0	<25.0	<25.0	<25.0	<5.0	<25.0	<5.0	<1.0	<5.0	<5.0	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<2.0	<2.0	<5.0	<5.0	<10.0	<50.0	<250	<10.0	NA*
trans-1,2-Dichloroethene	100	<10.0	<5.0	<2.0	<25.0	<25.0	<25.0	<5.0	<25.0	<5.0	<1.0	<5.0	<5.0	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<4.0	<8.0	<8.0	<2.0	<5.0	<5.0	<10.0	<50.0	<250	<10.0	<1.0
trans-1,3-Dichloropropene	NL -	<40.0	<100	<40.0	<100	<100	<100	<20.0	<100	<20.0	<4.0	<20.0	<20.0	<20.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<8.0	<8.0	<8.0	<20.0	<20.0	<40.0	<200	<1000	<40.0	NA*
Trichloroethene	5	<4.0	<5.0	<2.0	<10.0	<10.0	<10.0	2.5	<10.0	3.9	3.4	<2.0	<2.0	<2.0	25.1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	2.0	<2.0	<5.0	<5.0	<10.0	<50.0	<250	<10.0	35.0
Trichlorofluoromethane	2000	<10.0	<5.0	<2.0	<25.0	<25.0	<25.0	<5.0	<25.0	<5.0	<1.0	<5.0	<5.0	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<2.0	<2.0	<5.0	<5.0	<10.0	<50.0	<250	<10.0	NA*
Vinyl chloride	0.2	<4.0	<5.0	<2.0	<10.0	<10.0	<10.0	<2.0	<10.0	<2.0	<1.0	<2.0	<2.0	<2.0	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.80	<0.80	<0.80	<2.0	<2.0	<4.0	<20.0	<100	<4.0	<0.40
Xylene (Total)	10000	<30.0	<15.0	<6.0	<75.0	<3.0	<75.0	<15.0	<75.0	<15.0	<3.0	<15.0	<15.0	<15.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<6.0	<6.0	<6.0	<15.0	<15.0	<30.0	<150	<750	<30.0	NA*

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

Rochester, Minnesota

Sample ID	MDH Health	MW-17	MW-17	MW-17	MW-17	MW-17	MW-17	MW-17	MW-17	MW-17	MW-17	MW-17	MW-17	MW-17	MW-17	MW-17	MW-17	MW-17	MW-17	MW-17	MW-17	MW-17	MW-17	MW-17	MW-17	MW-17	MW-17	MW-17	MW-17	MW-17	MW-17
Collected Date and Time	Risk Limits 5/09	05/18/16	02/23/16	01/11/16				02/25/15				02/17/14		08/26/13					05/17/12				05/19/11		11/18/10	08/18/10		02/22/10			12/03/08
1,1,1,2-Tetrachloroethane	70	<1.0	<10.0	<2.0	<5.0	<5.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<5.0	<5.0	<2.0	NA*
1,1,1-Trichloroethane	9000	<1.0	<10.0	<2.0	<5.0	<5.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<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	<10.0	<2.0	<5.0	<5.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<5.0	<5.0	<2.0	NA*
1,1,2-Trichloroethane	3	<1.0	<10.0	<2.0	<5.0	<5.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<5.0	<5.0	<2.0	NA*
1,1,2-Trichlorotrifluoroethane	200000	<1.0	<50.0	18.2	37.6	58.0	26.1	12.9	20.1	23.7	13.4	5.5	4.2	10.8	32.8	7.0	<1.0	2.0	6.3	6.6	11.5	6.5	15.8	21.6	25.1	25.4	46.8	76.2	199	249	NA*
1,1-Dichloroethane	70	<1.0	<10.0	<2.0	< 5.0	<5.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<5.0	<5.0	<2.0	NA*
1,1-Dichloroethene 1,1-Dichloropropene	NL	<1.0 <1.0	<10.0 <10.0	<2.0 <2.0	<5.0 <5.0	<5.0 <5.0	<1.0 <1.0	<1.0 <1.0	<2.0 <2.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<5.0 <5.0	<5.0 <5.0	<5.0 <5.0	<2.0 <2.0	<5.0 NA*
1,2,3-Trichlorobenzene	NL	<1.0	<50.0	<10.0	<5.0	<5.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<5.0	<5.0	<2.0	NA*
1,2,3-Trichloropropane	40	<4.0	<10.0	<2.0	<20.0	<20.0	<4.0	<4.0	<8.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<1.0	<1.0	<5.0	<5.0	<5.0	<2.0	NA*
1,2,4-Trichlorobenzene	NL	<1.0	<50.0	<10.0	<5.0	<5.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<5.0	<5.0	<2.0	NA*
1,2,4-Trimethylbenzene	NL	<1.0	<10.0	<2.0	<5.0	<5.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<5.0	<5.0	<2.0	NA*
1,2-Dibromo-3-chloropropane	NL 004	<4.0	<50.0	<10.0	<20.0	<20.0	<10.0	<4.0	<8.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<20.0	<20.0	<20.0	<8.0	NA*
1,2-Dibromoethane (EDB) 1,2-Dichlorobenzene	.004 600	<1.0	<10.0 <10.0	<2.0 <2.0	<5.0	<5.0	<1.0 <1.0	<1.0	<2.0 <2.0	<1.0 <1.0	<1.0 <1.0	<1.0	<1.0	<1.0	<1.0	<1.0 <1.0	<1.0 <1.0	<1.0	<1.0 <1.0	<1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0	<5.0 <5.0	<5.0 <5.0	<5.0 <5.0	<2.0 <2.0	NA* NA*
1,2-Dichloroethane	4	<1.0 <1.0	<10.0	<2.0	<5.0 <5.0	<5.0 <5.0	<1.0	<1.0 <1.0	<2.0	<1.0	<1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0	<1.0	<1.0 <1.0	<1.0	<1.0 <1.0	<1.0	<1.0	<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	<10.0	<2.0	<20.0	<20.0	<4.0	<4.0	<8.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<1.0	<1.0	<1.0	<5.0	<5.0	<5.0	<2.0	NA*
1,3,5-Trimethylbenzene	100	<1.0	<10.0	<2.0	<5.0	<5.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<5.0	<5.0	<2.0	NA*
1,3-Dichlorobenzene	NL	<1.0	<10.0	<2.0	<5.0	<5.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<5.0	<5.0	<2.0	NA*
1,3-Dichloropropane	NL	<1.0	<10.0	<2.0	<5.0	<5.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<5.0	<5.0	<2.0	NA*
1,4-Dichlorobenzene	10	<1.0	<10.0	<2.0	< 5.0	< 5.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	< 5.0	<5.0	<5.0	<2.0	NA*
2,2-Dichloropropane 2-Butanone (MEK)	NL 4000	<4.0	<10.0 <200	<2.0 <40.0	<20.0 <25.0	<20.0 <25.0	<4.0 <5.0	<4.0 <5.0	<8.0 <10.0	<4.0 <5.0	<4.0 <5.0	<4.0	<4.0 <5.0	<4.0 <5.0	<4.0	<4.0 <5.0	<4.0 <4.0	<4.0 <4.0	<4.0 <4.0	<4.0 <4.0	<4.0 <4.0	<4.0 <4.0	<4.0 <4.0	<4.0 <4.0	<4.0 <4.0	<4.0 <4.0	<20.0 <20.0	<20.0 <20.0	<20.0 <20.0	<2.0 <8.0	NA* NA*
2-Chlorotoluene	NL	<5.0 <1.0	<10.0	<2.0	<5.0	<5.0	<1.0	<1.0	<2.0	<1.0	<1.0	<5.0 <1.0	<1.0	<1.0	<5.0 <1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<5.0	<5.0	<2.0	NA*
4-Chlorotoluene	NL	<1.0	<10.0	<2.0	<5.0	<5.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<5.0	<5.0	<2.0	NA*
4-Methyl-2-pentanone (MIBK)	300	<5.0	<200	<40.0	<25.0	<25.0	<5.0	<5.0	<10.0	<5.0	<5.0	<5.0	<5.0	< 5.0	<5.0	<5.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<20.0	<20.0	<20.0	<8.0	NA*
Acetone	700	<20.0	<200	<40.0	<100	<100	<50.0	<20.0	<40.0	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<10.0	<10.0	<50.0	<50.0	<50.0	<20.0	NA*
Allyl chloride	30	<4.0	<50.0	<10.0	<20.0	<20.0	<4.0	<4.0	<8.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<20.0	<20.0	<20.0	<8.0	NA*
Benzene	2	<1.0	<10.0	<2.0	< 5.0	<5.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<5.0	<5.0	<2.0	NA*
Bromobenzene Bromochloromethane	NL NL	<1.0 <1.0	<10.0 <10.0	<2.0 <2.0	<5.0 <5.0	<5.0 <5.0	<1.0 <1.0	<1.0 <1.0	<2.0 <2.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<5.0 <5.0	<5.0 <5.0	<5.0 <5.0	<2.0 <2.0	NA* NA*
Bromodichloromethane	6	<1.0	<10.0	<2.0	<5.0	<5.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<5.0	<5.0	<2.0	NA*
Bromoform	40	<4.0	<50.0	<10.0	<20.0	<20.0	<4.0	<4.0	<8.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<8.0	<8.0	<8.0	<40.0	<40.0	<40.0	<16.0	NA*
Bromomethane	10	<4.0	<50.0	<10.0	<20.0	<20.0	<4.0	<4.0	<8.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<10.0	<4.0	<4.0	<20.0	<20.0	<20.0	<8.0	NA*
Carbon tetrachloride	3	<1.0	<10.0	<2.0	<5.0	<5.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<4.0	<4.0	<4.0	<20.0	<20.0	<20.0	<2.0	NA*
Chlorobenzene	100	<1.0	<10.0	<2.0	<5.0	<5.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<5.0	<5.0	<2.0	NA*
Chloroethane Chloroform	300 30	<1.0 <4.0	<10.0 <50.0	<2.0 <10.0	<5.0 <5.0	<5.0 <5.0	<1.0 <1.0	<1.0	<2.0 <2.0	<4.0 1.3	<1.0 <1.0	<1.0 1.3	<1.0	<1.0 2.0	<4.0 1.2	<1.0 1.3	<1.0 1.1	<1.0	<1.0	<1.0 1.2	<1.0	<1.0	<1.0 1.1	<1.0 1.4	<1.0 1.8	<1.0 2.5	<5.0 <5.0	<5.0 <5.0	<5.0 <5.0	<2.0 2.4	NA* NA*
Chloromethane	NL	<4.0	<10.0	<2.0	<20.0	<20.0	<4.0	<4.0	<8.0	<4.0	<4.0	<4.0	<4.0	6.1	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<20.0	<20.0	<20.0	<8.0	NA*
cis-1,2-Dichloroethene	50	<1.0	<10.0	2.0	<5.0	9.8	<1.0	1.2	3.2	3.7	<1.0	<1.0	<1.0	<1.0	2.5	<1.0	<1.0	<1.0	<1.0	<1.0	1.0	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	<50.0	<10.0	<20.0	<20.0	<4.0	<4.0	<8.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<20.0	<20.0	<20.0	<8.0	NA*
Dibromochloromethane	10	<1.0	<50.0	<10.0	<5.0	<5.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<5.0	<5.0	<2.0	NA*
Dibromomethane	NL	<4.0	<10.0	<2.0	<20.0	<20.0	<4.0	<4.0	<8.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<20.0	<20.0	<5.0	<2.0	NA*
Dichlorodifluoromethane	1000	<1.0	<10.0	<2.0	<5.0	<5.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<5.0	<5.0	<2.0	NA*
Dichlorofluoromethane Diethyl ether (Ethyl ether)	NL 1000	<1.0 <4.0	<10.0 <50.0	<2.0 <10.0	<5.0 <20.0	<5.0 <20.0	<1.0 <4.0	<1.0 <4.0	<2.0 <8.0	<1.0 <4.0	<1.0 <4.0	<1.0	<1.0 <4.0	<1.0 <4.0	<1.0 <4.0	<1.0 <4.0	<1.0 <4.0	<1.0 <4.0	<1.0 <4.0	<1.0 <4.0	<1.0	<1.0 <4.0	<1.0 <4.0	<1.0 <4.0	<1.0 <4.0	<1.0 <4.0	<5.0 <20.0	<5.0 <20.0	<5.0 <20.0	<2.0 <8.0	NA* NA*
Ethylbenzene	700	<1.0	<10.0	<2.0	<5.0	<5.0	<1.0	<1.0	<2.0	<1.0	<1.0	<4.0 <1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<4.0 <1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<5.0	<5.0	<2.0	NA*
Hexachloro-1,3-butadiene	1	<1.0	<50.0	<10.0	<5.0	<5.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<4.0	<4.0	<4.0	<20.0	<20.0	<20.0	<8.0	NA*
Isopropylbenzene (Cumene)	300	<1.0	<10.0	<2.0	<5.0	<5.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<5.0	<5.0	<2.0	NA*
m&p-Xylene	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<4.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<10.0	<10.0	<10.0	<4.0	NA*
Methylene Chloride	5	<4.0	<10.0	<2.0	<20.0	<20.0	<4.0	<4.0	<8.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<1.0	<4.0	<4.0	<4.0	<4.0	<4.0	<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	<10.0	<2.0	<5.0	<5.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<5.0	<5.0	<2.0	NA*
Naphthalene n-Butylbenzene	300 NL	<4.0	<50.0 <10.0	<10.0 <2.0	<20.0 <5.0	<20.0	<4.0 <1.0	<4.0	<8.0 <2.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0	<4.0	<4.0 <1.0	<4.0	<4.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<20.0 <5.0	<20.0	<20.0 <5.0	<8.0 <2.0	NA* NA*
n-Propylbenzene	NL NL	<1.0 <1.0	<10.0	<2.0	<5.0	<5.0 <5.0	<1.0	<1.0 <1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0 <1.0	<1.0 <1.0	<1.0	<1.0 <1.0	<1.0 <1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<5.0 <5.0	<5.0	<2.0	NA*
o-Xylene	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<5.0	<5.0	<2.0	NA*
p-Isopropyltoluene	NL	<1.0	<10.0	<2.0	<5.0	<5.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<5.0	<5.0	<2.0	NA*
sec-Butylbenzene	NL	<1.0	<50.0	<10.0	<5.0	<5.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<5.0	<5.0	<2.0	NA*
Styrene	NL	<1.0	<10.0	<2.0	<5.0	<5.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<5.0	<5.0	<2.0	NA*
tert-Butylbenzene	NL	<1.0	<10.0	<2.0	< 5.0	<5.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<5.0	<5.0	<2.0	NA*
Tetrachloroethene Tetrahydrofuran	5 100	227	877	329 <10.0	1,010	1060	433	70.4	227	244	94.7	54.8	69.9	95.5	215 -10.0	49.9	22.0	23.3	37.1	47.1	106	107 -10.0	109	145	209	174 -10.0	412	639	1,100	803	363 NA*
Tetrahydrofuran Toluene	100 1000	<10.0 <1.0	<50.0 <10.0	<10.0 <2.0	<50.0 <5.0	<50.0 <5.0	<10.0 <1.0	<10.0 <1.0	<20.0 <2.0	<10.0 <1.0	<10.0 <1.0	<10.0 <1.0	<10.0 <1.0	<10.0 <1.0	<10.0 <1.0	<10.0 <1.0	<10.0 <1.0	<10.0 <1.0	<10.0 <1.0	<10.0 <1.0	<10.0 <1.0	<10.0 <1.0	<10.0 <1.0	<10.0 <1.0	<10.0 <1.0	<10.0 <1.0	<50.0 <5.0	<50.0 <5.0	<50.0 <5.0	<20.0 <2.0	NA* NA*
trans-1,2-Dichloroethene	100	<1.0	<10.0	<2.0	<5.0	<5.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<4.0	<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	<200	<40.0	<20.0	<20.0	<4.0	<4.0	<8.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<20.0	<20.0	<20.0	<8.0	NA*
Trichloroethene	5	<0.40	<10.0	<2.0	<2.0	3.3	<0.40	<0.40	0.89	1.1	<1.0	<0.40	<0.40	0.42	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<5.0	<5.0	<2.0	<5.0
Trichlorofluoromethane	2000	<1.0	<10.0	<2.0	<5.0	<5.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<5.0	<5.0	<2.0	NA*
Vinyl chloride	0.2	< 0.40	<10.0	<2.0	<2.0	<2.0	<0.40	< 0.40	<0.80	< 0.40	<1.0	< 0.40	< 0.40	< 0.40	< 0.40	< 0.40	< 0.40	< 0.40	< 0.40	< 0.40	< 0.40	< 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	<30.0	<6.0	<15.0	<3.0	<3.0	<3.0	<6.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<15.0	<15.0	<15.0	<6.0	NA*

Xylene (Total)
Notes:
NL: No Limit NA*: Not Analyzed NS: Not Sampled

Rochester, Minnesota

Sample ID	MDH Health	MW-18	MW-18	MW-18	MW-18	MW-18	MW-18	MW-18	MW-18	MW-18	MW-18	MW-18	MW-18	MW-18	MW-18	MW-18	MW-18	MW-18	MW-18	MW-18	MW-18	MW-18	MW-18	MW-18	MW-18	MW-18	MW-18	MW-18	MW-18	MW-18	MW-18
Collected Date and Time	Risk Limits 5/09	05/18/16	02/23/16	01/11/16	12/14/15	08/18/15	06/15/15	02/25/15	11/19/14	08/21/14	05/20/14	02/17/14	12/10/13	08/26/13	05/23/13	02/25/13	12/19/12	09/26/12	05/17/12	02/16/12	11/21/11	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 1	12/03/08
1,1,1,2-Tetrachloroethane	70	<1.0	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
1,1,1-Trichloroethane	9000	<1.0	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
1,1,2,2-Tetrachloroethane	2	<1.0	< 5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
1,1,2-Trichloroethane	3	<1.0	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
1,1,2-Trichlorotrifluoroethane 1,1-Dichloroethane	200000 70	<1.0 <1.0	<25.0	<5.0 <1.0	6.3	<1.0 <1.0	1.5 <1.0	<1.0	<1.0	<1.0 <1.0	<1.0	<1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0	<1.0 <1.0	<1.0	<1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 ~1.0	<1.0 [<1.0	2.0	<1.0	2.7	NA* NA*
1,1-Dichloroethane	6	<1.0	<5.0 <5.0	<1.0	<1.0 <1.0	<1.0	<1.0	<1.0 <1.0	<1.0 <1.0	<1.0	<1.0 <1.0	<1.0 <1.0	<1.0	<1.0	<1.0	<1.0 <1.0	<1.0	<1.0 <1.0	<1.0 <1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<2.0
1,1-Dichloropropene	NL	<1.0	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
1,2,3-Trichlorobenzene	NL	<1.0	<25.0	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
1,2,3-Trichloropropane	40 NII	<4.0	< 5.0	<1.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
1,2,4-Trichlorobenzene 1,2,4-Trimethylbenzene	NL NL	<1.0 <1.0	<25.0 <5.0	<5.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	NA* NA*
1,2-Dibromo-3-chloropropane	NL	<4.0	<25.0	<5.0	<4.0	<4.0	<10.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<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	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
1,2-Dichlorobenzene	600	<1.0	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
1,2-Dichloroethane	4	<1.0	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
1,2-Dichloropropane 1,3,5-Trimethylbenzene	5 100	<4.0 <1.0	<5.0 <5.0	<1.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	NA* NA*
1,3-Dichlorobenzene	NL	<1.0	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
1,3-Dichloropropane	NL	<1.0	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
1,4-Dichlorobenzene	10	<1.0	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
2,2-Dichloropropane 2-Butanone (MEK)	NL 4000	<4.0	<5.0	<1.0 <20.0	<4.0	<4.0	<4.0	<4.0 <5.0	<4.0 <5.0	<4.0	<4.0	<4.0 <5.0	<4.0 <5.0	<4.0 <5.0	<4.0	<4.0 <5.0	<4.0	<4.0 <4.0	<4.0	<4.0 <4.0	<4.0	<4.0 <4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<1.0 <4.0	<4.0	<1.0 <4.0	NA* NA*
2-Chlorotoluene	4000 NL	<5.0 <1.0	<100 <5.0	<1.0	<5.0 <1.0	<5.0 <1.0	<5.0 <1.0	<5.0 <1.0	<5.0 <1.0	<5.0 <1.0	<5.0 <1.0	<5.0 <1.0	<5.0 <1.0	<1.0	<5.0 <1.0	<5.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	NA*										
4-Chlorotoluene	NL	<1.0	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
4-Methyl-2-pentanone (MIBK)	300	<5.0	<100	<20.0	<5.0	<5.0	<5.0	<5.0	<5.0	< 5.0	<5.0	< 5.0	< 5.0	<5.0	<5.0	<5.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	NA*
Acetone	700	<20.0	<100	<20.0	<20.0	<20.0	<50.0	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<10.0	<10.0	<10.0	12.2	<10.0	<10.0	NA*
Allyl chloride	30	<4.0	<25.0	< 5.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0 <1.0	<4.0 <1.0	<4.0	<4.0	<4.0 <1.0	<4.0	<4.0	<4.0	NA* NA*
Benzene Bromobenzene	NL	<1.0 <1.0	<5.0 <5.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0	<1.0	<1.0 <1.0	<1.0 <1.0	<1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	NA*
Bromochloromethane	NL	<1.0	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
Bromodichloromethane	6	<1.0	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
Bromoform	40	<4.0	<25.0	<5.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<8.0	<8.0	<8.0	<8.0	<8.0	<8.0	<8.0	NA*
Bromomethane Carbon tetrachloride	10 3	<4.0 <1.0	<25.0 <5.0	<5.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <4.0	<4.0 <4.0	<4.0 <4.0	<4.0 <4.0	<4.0 <1.0	<4.0 <4.0	<4.0 <1.0	NA* NA*
Chlorobenzene	100	<1.0	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
Chloroethane	300	<1.0	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<4.0	<1.0	<1.0	<1.0	<1.0	20.9	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
Chloroform	30	<4.0	<25.0	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
Chloromethane	NL	<4.0	<5.0	<1.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	5.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	NA*
cis-1,2-Dichloroethene cis-1,3-Dichloropropene	50 NL	<1.0 <4.0	<5.0 <25.0	<1.0 <5.0	<1.0 <4.0	<1.0 <4.0	<1.0 <4.0	<1.0 <4.0	<1.0 <4.0	<1.0 <4.0	<1.0 <4.0	<1.0 <4.0	<1.0 <4.0	<1.0 <4.0	<1.0 <4.0	<1.0 <4.0	<1.0 <4.0	<1.0 <4.0	<1.0 <4.0	<1.0 <4.0	<1.0 <4.0	<1.0 <4.0	<1.0 <4.0	<1.0 <4.0	<1.0 <4.0	<1.0 <4.0	<1.0 <4.0	<1.0 <4.0	<1.0 <4.0	<1.0 <4.0	<2.0 NA*
Dibromochloromethane	10	<1.0	<25.0	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
Dibromomethane	NL	<4.0	<5.0	<1.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<1.0	<1.0	<1.0	NA*
Dichlorodifluoromethane	1000	<1.0	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
Dichlorofluoromethane	NL 1000	<1.0	< 5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
Diethyl ether (Ethyl ether) Ethylbenzene	1000 700	<4.0 <1.0	<25.0 <5.0	<5.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	NA* NA*
Hexachloro-1,3-butadiene	1	<1.0	<25.0	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	NA*
Isopropylbenzene (Cumene)	300	<1.0	< 5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
m&p-Xylene	NL -	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<4.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	NA*
Methylene Chloride	5	<4.0	<5.0	<1.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<1.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	7.2	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	NA*
Methyl-tert-butyl ether Naphthalene	70 300	<1.0 <4.0	<5.0 <25.0	<1.0 <5.0	<1.0 <4.0	<1.0 <4.0	<1.0 <4.0	<1.0 <4.0	<1.0 <4.0	<1.0 <4.0	<1.0 <4.0	<1.0 <4.0	<1.0 <4.0	<1.0 <4.0	<1.0 <4.0	NA <4.0	<1.0 <4.0	<1.0 <4.0	<1.0 <4.0	<1.0 <4.0	NA* NA*										
n-Butylbenzene	NL	<1.0	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
n-Propylbenzene	NL	<1.0	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
o-Xylene	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
p-Isopropyltoluene	NL NI	<1.0	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
sec-Butylbenzene Styrene	NL NL	<1.0 <1.0	<25.0 <5.0	<5.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	NA* NA*
tert-Butylbenzene	NL	<1.0	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
Tetrachloroethene	5	121	522	156	952	2.1	340	2.3	1.3	3.0	15.7	2.0	1.6	1.5	1.2	2.3	<1.0	1.8	1.5	2.9	3.6	3.6	3.6	4.8	8.6	8.4	26.0	96.8	130	250	257
Tetrahydrofuran	100	<10.0	<25.0	<5.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	NA*
Toluene	1000	<1.0	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
trans-1,2-Dichloroethene	100	<1.0	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<4.0	<4.0	<4.0 <4.0	<1.0 <4.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0 NA*
trans-1,3-Dichloropropene Trichloroethene	NL 5	<4.0 <0.40	<100 <5.0	<20.0 <1.0	<4.0 1.1	<4.0 <0.40	<4.0 <0.40	<4.0 <0.40	<4.0 <0.40	<4.0 <0.40	<4.0 <1.0	<4.0 <0.40	<4.0 <0.40	<4.0 <0.40	<4.0 <1.0	<4.0 1.2	<4.0 2.1	<4.0 2.6	NA* <2.0												
Trichlorofluoromethane	2000	<1.0	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
Vinyl chloride	0.2	< 0.40	<5.0	<1.0	< 0.40	<0.40	< 0.40	< 0.40	<0.40	< 0.40	<1.0	< 0.40	< 0.40	<0.40	< 0.40	<0.40	<0.40	< 0.40	<0.40	<0.40	<0.40	< 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	<15.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<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 NS: Not Sampled

Rochester, Minnesota

Sample ID	MDH Health	MW-19	MW-19	MW-19	MW-19	MW-19	MW-19	MW-19	MW-19	MW-19	MW-19	MW-19	MW-19	MW-19	MW-19	MW-19	MW-19	MW-19	MW-19	MW-19	MW-19	MW-19	MW-19	MW-19	MW-19	MW-19	MW-19	MW-19	MW-19	MW-19	MW-19
Collected Date and Time	Risk Limits 5/09																													09/24/09 1	
1,1,1,2-Tetrachloroethane	70	<1.0	<1.0	<1.0	<1.0	08/18/15 <1.0	<1.0	02/25/15 <1.0	<1.0	<1.0	<1.0	<1.0	<1.0	08/26/13 <1.0	05/23/13 <1.0	02/25/13 <1.0	<1.0	09/26/12 <1.0	<1.0	<1.0	<1.0	<1.0	05/19/11 <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	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<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	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<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	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
1,1,2-Trichlorotrifluoroethane	200000	1.1	5.4	<5.0	5.3	9.5	3.1	8.0	1.2	<1.0	1.2	2.3	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	1.9	2.4	NA*
1,1-Dichloroethane 1,1-Dichloroethene	70 6	<1.0	<1.0	<1.0	<1.0	<1.0 <1.0	<1.0	<1.0 <1.0	<1.0 <1.0	<1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0	<1.0 <1.0	<1.0 <1.0	<1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0	<1.0	<1.0 <1.0	NA* <1.0
1,1-Dichloropropene	NL	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0	<1.0 <1.0	<1.0	<1.0	<1.0 <1.0	<1.0	<1.0	<1.0	<1.0	<1.0 <1.0	<1.0	<1.0	<1.0	<1.0	<1.0 <1.0	<1.0	<1.0	<1.0 <1.0	<1.0	<1.0	<1.0	<1.0	<1.0 <1.0	<1.0 <1.0	<1.0	NA*
1,2,3-Trichlorobenzene	NL	<1.0	<5.0	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
1,2,3-Trichloropropane	40	<4.0	<1.0	<1.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
1,2,4-Trichlorobenzene	NL	<1.0	<5.0	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
1,2,4-Trimethylbenzene 1,2-Dibromo-3-chloropropane	NL NL	<1.0 <4.0	<1.0 <5.0	<1.0 <5.0	<1.0 <4.0	<1.0 <4.0	<1.0 <10.0	<1.0 <4.0	<1.0 <4.0	<1.0 <4.0	<1.0 <4.0	<1.0 <4.0	<1.0 <4.0	<1.0 <4.0	<1.0 <4.0	<1.0 <4.0	<1.0 <4.0	<1.0 <4.0	<1.0 <4.0	<1.0 <4.0	<1.0 <4.0	<1.0 <4.0	<1.0 <4.0	<1.0 <4.0	<1.0 <4.0	<1.0	<1.0 <4.0	<1.0 <4.0	<1.0 <4.0	<1.0 <4.0	NA* NA*
1,2-Dibromoethane (EDB)	.004	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<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	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<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	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
1,2-Dichloropropane	5	<4.0	<1.0	<1.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<1.0	<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	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
1,3-Dichlorobenzene 1,3-Dichloropropane	NL NL	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	NA* NA*
1,4-Dichlorobenzene	10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
2,2-Dichloropropane	NL	<4.0	<1.0	<1.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<1.0	<4.0	<1.0	NA*
2-Butanone (MEK)	4000	<5.0	<20.0	<20.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<4.0	<4.0	<4.0	<4.0	<4.0	<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	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
4-Chlorotoluene 4-Methyl-2-pentanone (MIBK)	NL 300	<1.0 <5.0	<1.0 <20.0	<1.0 <20.0	<1.0 <5.0	<1.0 <5.0	<1.0 <5.0	<1.0 <5.0	<1.0 <5.0	<1.0 <5.0	<1.0 <5.0	<1.0 <5.0	<1.0 <5.0	<1.0 <5.0	<1.0 <5.0	<1.0 <5.0	<1.0 <4.0	<1.0 <4.0	<1.0 <4.0	<1.0 <4.0	<1.0 <4.0	<1.0 <4.0	<1.0 <4.0	<1.0 <4.0	<1.0	<1.0	<1.0 <4.0	<1.0 <4.0	<1.0 <4.0	<1.0 <4.0	NA* NA*
Acetone	700	<20.0	<20.0	<20.0	<5.0 <20.0	<20.0	<50.0	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<4.0 <10.0	<4.0 <10.0	<10.0	<10.0	<10.0	<10.0	NA*
Allyl chloride	30	<4.0	<5.0	<5.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<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	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<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	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
Bromochloromethane	NL 6	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA* NA*
Bromodichloromethane Bromoform	40	<1.0 <4.0	<1.0 <5.0	<1.0 <5.0	<1.0 <4.0	<1.0 <4.0	<1.0 <4.0	<1.0 <4.0	<1.0 <4.0	<1.0 <4.0	<1.0 <4.0	<1.0 <4.0	<1.0 <4.0	<1.0 <4.0	<1.0 <4.0	<1.0 <4.0	<1.0 <4.0	<1.0 <4.0	<1.0 <4.0	<1.0 <4.0	<1.0 <4.0	<1.0 <4.0	<1.0 <4.0	<1.0 <8.0	<1.0 <8.0	<1.0 <8.0	<1.0 <8.0	<1.0 <8.0	<1.0 <8.0	<1.0 <8.0	NA*
Bromomethane	10	<4.0	<5.0	<5.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<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	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<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	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
Chloroethane Chloroform	300 30	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<4.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA* NA*
Chloromethane	NL	<4.0 <4.0	<5.0 <1.0	<5.0 <1.0	<1.0 <4.0	<1.0 <4.0	<1.0 <4.0	<1.0 <4.0	<1.0 <4.0	<1.0 <4.0	<1.0 <4.0	<1.0 <4.0	<1.0 <4.0	<1.0 4.3	<1.0 <4.0	<1.0 <4.0	<1.0 <4.0	<1.0 <4.0	<1.0 <4.0	<1.0 <4.0	<1.0 <4.0	<1.0 <4.0	<1.0 <4.0	<1.0 <4.0	<1.0 <4.0	<1.0 <4.0	<1.0 <4.0	<1.0 10.4	<1.0 <4.0	<1.0 <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	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
cis-1,3-Dichloropropene	NL	<4.0	< 5.0	<5.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	NA*
Dibromochloromethane	10	<1.0	<5.0	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
Dibromomethane	NL	<4.0	<1.0	<1.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<1.0	<1.0	<1.0	NA*
Dichlorodifluoromethane Dichlorofluoromethane	1000 NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0 <1.0	<1.0	<1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0	<1.0 <1.0	<1.0	<1.0 <1.0	<1.0 <1.0	<1.0	<1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0	<1.0 <1.0	<1.0 <1.0	NA* NA*
Diethyl ether (Ethyl ether)	1000	<1.0 <4.0	<1.0 <5.0	<1.0 <5.0	<1.0 <4.0	<1.0 <4.0	<4.0	<1.0 <4.0	<1.0 <4.0	<4.0	<4.0	<4.0	<4.0	<1.0 <4.0	<4.0	<1.0 <4.0	<4.0	<4.0	<1.0 <4.0	<1.0 <4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<1.0 <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	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
Hexachloro-1,3-butadiene	1	<1.0	<5.0	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	< 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	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
m&p-Xylene	NL	NA .1.0	NA .1.0	NA .1.0	NA .1.0	NA .1.0	NA .4.0	NA .4.0	NA .4.0	NA .1.0	NA .1.0	NA .1.0	NA .1.0	NA .1.0	NA .1.0	<4.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	NA*
Methylene Chloride Methyl-tert-butyl ether	5 70	<4.0 <1.0	<1.0 <1.0	<1.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<1.0 NA	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	5.2 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	NA* NA*
Naphthalene	300	<4.0	<5.0	<5.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<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	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<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	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
o-Xylene	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
p-Isopropyltoluene	NL NI	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0 <1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
sec-Butylbenzene Styrene	NL NL	<1.0 <1.0	<5.0 <1.0	<5.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	NA* NA*
tert-Butylbenzene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
Tetrachloroethene	5	54.2	35.4	36.1	139	55.7	203	50.1	5.3	3.7	4.7	11.7	2.1	1.7	3.0	<1.0	1.4	<1.0	1.1	2.2	2.7	2.9	4.7	4.8	4.8	4.2	7.2	12.9	13.6	17.4	2.4
Tetrahydrofuran	100	<10.0	<5.0	<5.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<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	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*
trans-1,2-Dichloroethene	100	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<4.0	<4.0	<4.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0 NA*
trans-1,3-Dichloropropene Trichloroethene	NL 5	<4.0 <0.40	<20.0 <1.0	<20.0 <1.0	<4.0 <0.40	<4.0 <0.40	<4.0 <0.40	<4.0 <0.40	<4.0 <0.40	<4.0 <0.40	<4.0 <1.0	<4.0 <0.40	<4.0 <0.40	<4.0 <0.40	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	NA* <1.0
Trichlorofluoromethane	2000	<1.0	<1.0 <1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.40 <1.0	<1.0	<1.0	<1.0	<1.0	<1.0 <1.0	<1.0	<1.0 <1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<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	<1.0	<1.0	<0.40	< 0.40	<0.40	<0.40	<0.40	< 0.40	<1.0	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<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)	10000	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	NA*

Notes: NL: No Limit

Rochester, Minnesota

Samula ID	MDH Health	B414/ 20	MW 20	MW 20	MW 20	MW 20	MW 20	BANA/ 20	MW 20	MW 20	MM 20	MM 20	MW 20	MW 20	MW 20	MW 20	MW 20	MW 20	MW 20	MW 20	MW 20	MW 20	MW 20	MW 20	MW 20	MW 20	MW 20	MW 20	MW 20	MANA/ 20	NAVA 20
Sample ID	Risk Limits	MW-20	IVIVV-20	IVIVV-20	MW-20	IVIVV-20	MW-20	MW-20	WW-20	MW-20	MW-20	MW-20	MW-20	MW-20	IVIVV-2U	MW-20	MW-20	WW-20	MW-20	MW-20	MW-20	MW-20	MW-20	MW-20							
Collected Date and Time	5/09			01/11/16			06/15/15																	03/01/11		08/18/10					2/10/08
1,1,1,2-Tetrachloroethane 1,1,1-Trichloroethane	70 9000	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<2.0 <2.0	<2.0 <2.0	<2.0 <2.0	<1.0 <1.0	NA* 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	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<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	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<2.0	<2.0	<1.0	NA*
1,1,2-Trichlorotrifluoroethane 1,1-Dichloroethane	200000 70	<1.0	<5.0	<5.0	17.6	14.4	12.5	5.5	2.8	2.5	6.5	9.1 <1.0	6.4	9.3 <1.0	18.0 <1.0	1.4 <1.0	1.3 <1.0	1.3	1.5	2.1 <1.0	2.5	<1.0	2.3 <1.0	8.6 <1.0	2.7 <1.0	2.8 <1.0	11.2 <2.0	20.9 <2.0	37.4 <2.0	33.5 <1.0	NA* 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 <1.0	<1.0 <1.0	<1.0	<1.0 <1.0	<1.0 <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	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<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	<5.0	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<2.0	<2.0	<1.0	NA*
1,2,3-Trichloropropane 1,2,4-Trichlorobenzene	40 NL	<4.0 <1.0	<1.0 <5.0	<1.0 <5.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<1.0 <1.0	<1.0 <1.0	<2.0 <2.0	<2.0 <2.0	<2.0 <2.0	<1.0 <1.0	NA* NA*							
1,2,4-Trimethylbenzene	NL	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<2.0	<2.0	<1.0	NA*
1,2-Dibromo-3-chloropropane	NL	<4.0	<5.0	<5.0	<4.0	<4.0	<10.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<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	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<2.0	<2.0	<1.0	NA*
1,2-Dichlorobenzene 1,2-Dichloroethane	600 4	<1.0 <1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0 <1.0	<1.0	<1.0 <1.0	<1.0 <1.0	<1.0	<1.0	<1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0	<1.0 <1.0	<1.0	<1.0	<1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<2.0 <2.0	<2.0 <2.0	<2.0 <2.0	<1.0	NA* NA*
1,2-Dichloropropane	5	<1.0 <4.0	<1.0 <1.0	<1.0 <1.0	<1.0 <4.0	<1.0 <4.0	<1.0 <4.0	<1.0 <4.0	<4.0	<4.0	<1.0 <4.0	<4.0	<1.0 <4.0	<1.0 <4.0	<1.0 <4.0	<4.0	<1.0	<1.0	<1.0	<2.0	<2.0 <2.0	<2.0 <2.0	<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	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<2.0	<2.0	<1.0	NA*
1,3-Dichlorobenzene	NL NI	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<2.0	<2.0	<1.0	NA*
1,3-Dichloropropane 1,4-Dichlorobenzene	NL 10	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<2.0 <2.0	<2.0 <2.0	<2.0 <2.0	<1.0 <1.0	NA* NA*										
2,2-Dichloropropane	NL	<1.0 <4.0	<1.0 <1.0	<1.0	<1.0 <4.0	<1.0 <4.0	<1.0 <4.0	<1.0 <4.0	<4.0	<4.0	<1.0 <4.0	<4.0	<1.0 <4.0	<1.0 <4.0	<4.0	<1.0 <4.0	<1.0 <4.0	<4.0	<4.0	<2.0 <8.0	<2.0 <2.0	<2.0 <8.0	<1.0	NA*							
2-Butanone (MEK)	4000	<5.0	<20.0	<20.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<4.0	<4.0	<4.0	<4.0	<4.0	<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	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<2.0	<2.0	<1.0	NA*
4-Chlorotoluene 4-Methyl-2-pentanone (MIBK)	NL 300	<1.0 <5.0	<1.0 <20.0	<1.0 <20.0	<1.0 <5.0	<1.0 <5.0	<1.0 <5.0	<1.0 <5.0	<1.0 <5.0	<1.0 <4.0	<1.0 <4.0	<1.0 <4.0	<1.0 <4.0	<1.0 <4.0	<1.0 <4.0	<1.0 <4.0	<1.0 <4.0	<1.0 <4.0	<1.0 <4.0	<2.0 <8.0	<2.0 <8.0	<2.0 <8.0	<1.0 <4.0	NA* NA*							
Acetone	700	<20.0	<20.0	<20.0	<20.0	<20.0	<50.0	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<10.0	<10.0	<20.0	<20.0	<20.0	<10.0	NA*
Allyl chloride	30	<4.0	<5.0	<5.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<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	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<2.0	<2.0	<1.0	NA*
Bromobenzene Bromochloromethane	NL NL	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<2.0 <2.0	<2.0 <2.0	<2.0 <2.0	<1.0 <1.0	NA* NA*										
Bromodichloromethane	6	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<2.0	<2.0	<1.0	NA*
Bromoform	40	<4.0	<5.0	<5.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<8.0	<8.0	<8.0	<16.0	<16.0	<16.0	<8.0	NA*
Bromomethane	10	<4.0	<5.0	<5.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<8.0	<8.0	<8.0	<4.0	NA*
Carbon tetrachloride Chlorobenzene	3 100	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<8.0 <2.0	<2.0 <2.0	<8.0 <2.0	<1.0 <1.0	NA* NA*										
Chloroethane	300	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<4.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<2.0	<2.0	<1.0	NA*
Chloroform	30	<4.0	<5.0	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<2.0	<2.0	<1.0	NA*
Chloromethane	NL	<4.0	<1.0	<1.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	21.9	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<8.0	8.6	<8.0	<4.0	NA*
cis-1,2-Dichloroethene cis-1,3-Dichloropropene	50 NL	<1.0	<1.0	<1.0 <5.0	<1.0 <4.0	<1.0	<1.0	<1.0 <4.0	<1.0 <4.0	<1.0 <4.0	<1.0 <4.0	<1.0	<1.0 <4.0	<1.0 <4.0	<1.0 <4.0	<1.0 <4.0	<1.0 <4.0	<1.0	<1.0 <4.0	<1.0	<1.0 <4.0	<1.0	<1.0 <4.0	<1.0	<1.0 <4.0	<1.0 <4.0	<2.0 <8.0	<2.0 <8.0	<2.0 <8.0	<1.0 <4.0	<5.0 NA*
Dibromochloromethane	10	<4.0 <1.0	<5.0 <5.0	<5.0	<1.0	<4.0 <1.0	<4.0 <1.0	<1.0	<1.0	<1.0	<1.0	<4.0 <1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<4.0 <1.0	<1.0	<4.0 <1.0	<1.0	<4.0 <1.0	<1.0	<4.0 <1.0	<1.0	<1.0	<2.0	<2.0	<2.0	<1.0	NA*
Dibromomethane	NL	<4.0	<1.0	<1.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<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	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<2.0	<2.0	<1.0	NA*
Dichlorofluoromethane Diethyl ether (Ethyl ether)	NL 1000	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0 <4.0	<1.0 <4.0	<1.0 <4.0	<1.0 <4.0	<2.0 <8.0	<2.0 <8.0	<2.0	<1.0	NA* NA*
Ethylbenzene	700	<4.0 <1.0	<5.0 <1.0	<5.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<0.0 <2.0	<8.0 <2.0	<4.0 <1.0	NA*							
Hexachloro-1,3-butadiene	1	<1.0	< 5.0	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<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	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<2.0	<2.0	<1.0	NA*
m&p-Xylene	NL	NA .1.0	NA .1.0	NA ·1.0	NA .4.0	NA ·1.0	NA .1.0	NA .1.0	NA .1.0	NA .1.0	NA .1.0	NA .1.0	NA .1.0	NA .4.0	NA .4.0	<4.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<4.0	<4.0	<4.0	<2.0	NA*
Methylene Chloride Methyl-tert-butyl ether	5 70	<4.0 <1.0	<1.0 <1.0	<1.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<1.0 NA	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	5.2 <1.0	<4.0 <1.0	<4.0 <1.0	<8.0 <2.0	<8.0 <2.0	<8.0 <2.0	<4.0 <1.0	NA* NA*							
Naphthalene	300	<4.0	<5.0	<5.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<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	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<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	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<2.0	<2.0	<1.0	NA*
o-Xylene p-Isopropyltoluene	NL NL	NA <1.0	NA <1.0	NA <1.0	NA <1.0	NA <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<2.0 <2.0	<2.0 <2.0	<2.0 <2.0	<1.0 <1.0	NA* NA*										
sec-Butylbenzene	NL	<1.0	<5.0	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<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	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<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	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<2.0	<2.0	<1.0	NA*
Tetrachloroethene Tetrabydrofuran	5 100	23.2	62.0	27.5	177	762	172 <10.0	47.1	20.4	12.7	46.9	106	81.4	45.5	198	50.2	40.8	17.4	28.7	41.8	32.5	12.2 <10.0	16.8	211	50.9	74.7	194 <20.0	402 36.1	307	713	599 NA*
Tetrahydrofuran Toluene	1000	<10.0 <1.0	<5.0 <1.0	<5.0 <1.0	<10.0 <1.0	<10.0 <1.0	<10.0 <1.0	<10.0 <1.0	<10.0 <1.0	<10.0 <1.0	<10.0 <1.0	<10.0 <1.0	<10.0 <1.0	<10.0 <1.0	<10.0 <1.0	<10.0 <1.0	<10.0 <1.0	<10.0 <1.0	<10.0 <1.0	<20.0 <2.0	36.1 <2.0	<20.0 <2.0	<10.0 <1.0	NA*							
trans-1,2-Dichloroethene	100	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<4.0	<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	<20.0	<20.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<8.0	<8.0	<8.0	<4.0	NA*
Trichloroethene	5	<0.40	<1.0	<1.0	<0.40	1.0	<0.40	<0.40	<0.40	<0.40	<1.0	<0.40	<0.40	<0.40	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	2.9	<2.0	<2.0	<1.0	<5.0
Trichlorofluoromethane	2000	<1.0 <0.40	<1.0	<1.0	<1.0 <0.40	<1.0 <0.40	<1.0 <0.40	<1.0 <0.40	<1.0 <0.40	<1.0 <0.40	<1.0	<1.0 <0.40	<1.0 <0.40	<1.0 <0.40	<1.0 <0.40	<1.0 <0.40	<1.0 <0.40	<1.0 <0.40	<1.0 <0.40	<1.0 <0.40	<1.0 <0.40	<1.0 <0.40	<1.0 <0.40	<1.0 <0.40	<1.0 <0.40	<1.0 <0.40	<2.0 <0.80	<2.0 <0.80	<2.0 <0.80	<1.0 <0.40	NA*
Vinyl chloride Xylene (Total)	0.2 10000	<0.40 <3.0	<1.0 <3.0	<1.0 <3.0	<0.40 <3.0	<0.40 <3.0	<0.40 <3.0	<0.40 <3.0	<0.40 <3.0	<0.40 <3.0	<1.0 <3.0	<0.40 <3.0	<0.40 <3.0	<0.40 <3.0	<0.40 <3.0	<0.40 <3.0	<0.40 <3.0	<0.40 <3.0	<0.40 <3.0	<0.40 <3.0	<0.40 <3.0	<0.40 <3.0	<0.40 <3.0	<0.40 <3.0	<0.40 <3.0	<0.40 <3.0	<0.80 <6.0	<0.80 <6.0	<0.80 <6.0	<0.40 <3.0	<2.0 NA*
Aylono (Total)	10000	~∪. ∪	~ ∪.∪	~∪. ∪	~∪. ∪	~∪. ∪	~∪. ∪	~ ∪.∪	~ ∪.∪	~∪. ∪	~∪. ∪	~∪. ∪	~∪. ∪	~ ∪.∪	~∪. ∪	~∪. ∪	~∪. ∪	~∪.∪	٦٥.0	٦٥.0	٦٥.0	٦٥.0	٦٥.0	~∪.∪	~∪. ∪	~∪.∪	1 1/1				

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

TABLE 7 Vapor Mitigation Systems Monitoring Results MN Bio Business Center 221 1st Avenue SW Rochester, MN

Date	Passive Venting On/Off	VMS-1 (north)	VMS-2 (middle)	VMS-3 (south)	V-1	V-2	V-3	V-4	LSG-7	LSG-8	LSG-9	LSG-10	SP-1	SP-2
Venting System N	Nonitoring during So	il Vapor Sampling												
8/22/2014	ON	NA	NA	NA	0.059	0.063	0.067	NR	0.066	0.051	0.045	0.048	0.024	0.00
2/26/2015	ON	NA	NA	NA	NR NR									
9/8/2015	OFF	NA	NA	NA	NR NR									
1/12/2016	OFF	NA	NA	NA	NR	NR	NR	NR	0.068	0.092	0.068	0.089	NR	NR
2/23/2016	OFF	NA	NA	NA	NR NR									
Pre-Mitigation Dia	agnostic Testing (AC	TIVE VENTING SYS	TEM)											
3/23/2015	ACTIVE ON	-1.5	NA	NA	-0.17	0	-0.015	NR	0.027	0.002	-0.116	-0.01	NR	NR
3/23/2015	ACTIVE ON	NA	-1.5	NA	-0.907	-0.025	-1.023	NR	0.007	-0.018	-0.110	-0.199	NR	NR
3/23/2015	ACTIVE ON	NA	NA	-1.5	-0.07	-1.194	-0.046	NR	0.001	-0.095	-0.158	-0.183	NR	NR
Post-Mitigation D	iagnostic Testing an	d Monitoring (ACT	IVE VENTING SYSTE	M)										
9/14/2015	ACTIVE ON	-2.06	NR	-1.68	NR NR									
9/21/2015	ACTIVE ON	-2.05	NR	-1.66	NR NR									
9/30/2015	ACTIVE ON	-2.09	NR	-1.69	NR NR									
10/13/2015	ACTIVE ON	-2.06	-2.02	-1.68	NR NR									
12/15/2015	ACTIVE ON/OFF	-2.05	-1.97	-2.28	-1.532	-1.474	-1.324	NR	-0.098	-0.378	-0.732	-0.683	NR	NR
5/17/2016	ACTIVE OFF/ON	-2.02	-1.67	-0.51	-1.277	-0.167	-1.379	-1.941	-0.032	-0.120	-0.382	-0.291	NR	NR
6/23/2016	ACTIVE ON	-2.03	-1.76	-1.75	-1.542	-1.485	-1.625	-1.826	-0.103	-0.425	-0.831	-0.823	NR	NR
														ĺ

Notes:

VMS-1 is the north system connected to V-4.

VMS-2 is the middle system connected to V-1 & V-3.

VMS-3 is the south system connected to V-2.

NA: Not applicable.

NR: Not recorded.

^{*}VMS-3 (south) digital meter appears to not be working on 5/17/2016 because the readings were very low and fluctuating a lot

^{*}It was determined that the fan at VMS-3 (south) was powered off. It was powered back on on 6/23/16. Moisture was also in the tubing that lead to the digital manometer so that was fixed as well.

Table 8 Soil Vapor Sampling Results MN Bio Business Center Rochester, MN (ug/m³)

	MPCA	MPCA	LSG-7	LSG-7	LSG-7	LSG-7	LSG-7	LSG-7	LSG-7	LSG-7	LSG-7	LSG-8	LSG-8	LSG-8	LSG-8	LSG -8	LSG-8	LSG-8	LSG-8	LSG-8
	Commercial	Residential	6/23/2016	2/24/2016	1/12/2016	9/8/2015	2/26/2015	8/22/2014	2/18/2014	10/18/2013	12/21/2012	6/23/2016	2/24/2016	1/12/2016	9/8/2015	2/26/2015	8/22/2014	2/18/2014	10/18/2013	12/21/2012
Parameter	10X ISV	10X ISV	Legend	Legend	Legend	Legend	Legend	Pace	Legend	Legend	Legend	Legend	Legend	Legend	Legend	Legend	Pace	Legend	Legend	Legend
1,1,1-Trichloroethane	100000	50000	<2.7	<2.7	<2.7	<8.1	<2.7	<2.3	<2.7	<2.7	<2.7	<2.7	<2.7	<2.7	<2.7	<2.7	<2.8	<2.7	<2.7	<2.7
1,1,2,2-Tetrachloroethane	10	2	<3.4	<3.4	<3.4	<10	<3.4	<1.5	<3.4	<3.4	<3.4	<3.4	<3.4	<3.4	<3.4	<3.4	<1.8	<3.4	<3.4	<3.4
1,1,2-Trichloroethane	20	6	<2.7	<2.7	<2.7	<8.1	<2.7	<1.2	<2.7	<2.7	<2.7	<2.7	<2.7	<2.7	<2.7	<2.7	<1.4	<2.7	<2.7	<2.7
1,1-Dichloroethane	10000	5000	<2.0	<2.0	<2.0	<6.0	<2.0	<1.7	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.1	<2.0	<2.0	<2.0
1,1-Dichloroethene	6000	2000	<2.0	<2.0	<2.0	<6.0	<2.0	<1.7	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
1,2,4-Trichlorobenzene	100	40	<3.7	<3.7	<3.7	<11	<3.7	<3.2	<3.7	<3.7	<3.7	<3.7	<3.7	<3.7	5.0	<3.7	<3.8	<3.7	<3.7	<3.7
1,2,4-Trimethylbenzene	200	70	1.6	<1.0	2.2	15	26	3.6	1.1	1.1	6.1	1.7	1.1	1.6	6.5	25	288	<1.0	1.2	5.5
1,2-Dibromoethane	1	0.2	<3.8	<3.8	<3.8	<11	<3.8	<3.3	<3.8	<3.8	<3.8	<3.8	<3.8	<3.8	<3.8	<3.8	<3.9	<3.8	<3.8	<3.8
1,2-Dichlorobenzene	6000	2000	<3.0	<3.0	<3.0	<9.0	<3.0	<2.6	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.1	<3.0	<3.0	<3.0
1,2-Dichloroethane	10	4	<2.0	<2.0	<2.0	<6.0	<2.0	<0.86	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<1.0	<2.0	<2.0	<2.0
1,2-Dichloropropane	100	40	<2.3	<2.3	<2.3	<6.9	<2.3	<2.0	<2.3	<2.3	<2.3	<2.3	<2.3	<2.3	<2.3	<2.3	<2.4	<2.3	<2.3	<2.3
1,3,5-Trimethylbenzene	200	60	<1.0	<1.0	<1.0	3.7	4.9	2.9	<1.0	<1.0	2.1	<1.0	<1.0	<1.0	1.9	4.6	98.5	<1.0	<1.0	2.1
1,3-Butadiene	27	3	1.2	<1.1	<1.1	<3.3	<1.1	<0.94	<1.1	<1.1	<1.1	<1.1	<1.1	<1.1	<1.1	<1.1	<1.1	<1.1	<1.1	<1.1
1,3-Dichlorobenzene	NA	NA	<3.0	<3.0	<3.0	<9.0	<3.0	<2.6	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.1	<3.0	<3.0	<3.0
1,4-Dichlorobenzene	2000	600	<3.0	<3.0	<3.0	<9.0	<3.0	<2.6	8.3	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.1	7	<3.0	<3.0
2-Butanone	100000	50000	3.1	5.9	6.9	34	<1.5	2.3	1.6	<1.5	5.4	2.1	4.0	8.4	29	<1.5	42.7	<1.5	<1.5	5.4
4-Ethyltoluene	NA 870000	NA 310000	<2.5 51	<2.5 64	<2.5 31	<7.5	4.5 11	3.8 <5.1	<2.5 15	<2.5 7.8	3.1 55	<2.5 21	<2.5 33	<2.5 45	<2.5 16	4.1	97.7 176	<2.5 8.4	<2.5 13	2.8 49
Acetone Benzene	450	46	5.4	0.78	0.85	2.4	1.1	1.2	0.85	7.8	<0.64	<0.64	<0.64	1.1	<0.64	0.7	176	<0.64	<0.64	<0.64
Benzyl chloride	30	10	<2.6	<2.6	<2.6	<7.8	<2.6	<2.2	<2.6	<2.6	<2.6	<2.6	<2.6	<2.6	<2.6	<2.6	<2.6	<2.6	<2.6	<2.6
Bromodichloromethane	NA	NA	<3.4	<3.4	<3.4	<10	<3.4	<2.9	<3.4	<3.4	<3.4	<3.4	<3.4	<3.4	<3.4	<3.4	<3.4	<3.4	<3.4	<3.4
Bromoform	300	90	<5.2	<5.2	<5.2	<16	<5.2	<11.0	<5.2	<5.2	<5.2	<5.2	<5.2	<5.2	<5.2	<5.2	<13.2	<5.2	<5.2	<5.2
Bromomethane	100	50	<1.9	<1.9	<1.9	<5.7	<1.9	<1.7	<1.9	<1.9	<1.9	<1.9	<1.9	<1.9	<1.9	<1.9	<2.0	<1.9	<1.9	<1.9
Carbon disulfide	20000	7000	<1.6	<1.6	<1.6	<4.8	<1.6	<1.3	<1.6	<1.6	<1.6	<1.6	<1.6	<1.6	<1.6	<1.6	2.2	<1.6	<1.6	<1.6
Carbon tetrachloride	160	17	<3.1	<3.1	<3.1	<9.3	<3.1	<1.3	<3.1	<3.1	<3.1	<3.1	<3.1	<3.1	<3.1	<3.1	<1.6	<3.1	<3.1	<3.1
Chlorobenzene	1000	500	<2.3	<2.3	<2.3	<6.9	<2.3	<2.0	<2.3	<2.3	<2.3	<2.3	<2.3	<2.3	<2.3	<2.3	<2.4	<2.3	<2.3	<2.3
Chloroethane	300000	100000	<1.3	<1.3	<1.3	<3.9	<1.3	<1.1	<1.3	<1.3	<1.3	<1.3	<1.3	<1.3	<1.3	<1.3	<1.4	<1.3	<1.3	<1.3
Chloroform	3000	1000	<2.4	<2.4	<2.4	<7.2	<2.4	1.3	<2.4	<2.4	<2.4	<2.4	<2.4	<2.4	<2.4	<2.4	<1.2	<2.4	<2.4	<2.4
Chloromethane	3000	900	1.2	<1.0	<1.0	<3.0	<1.0	<0.88	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.1	<1.0	<1.0	<1.0
cis-1,2-Dichloroethene	NA	NA	<2.0	<2.0	<2.0	<6.0	<2.0	<1.7	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
cis-1,3-Dichloropropene	600	200	<2.3	<2.3	<2.3	<6.9	<2.3	<4.8	<2.3	<2.3	<2.3	<2.3	<2.3	<2.3	<2.3	<2.3	<5.8	<2.3	<2.3	<2.3
Cyclohexane	200000	60000	<1.7	<1.7	<1.7	<5.1	<1.7	<3.7	<1.7	1.8	14	<1.7	<1.7	<1.7	<1.7	<1.7	231	<1.7	<1.7	7.9
Dibromochloromethane	NA	NA	<4.3	<4.3	<4.3	<13	<4.3	<3.6	<4.3	<4.3	<4.3	<4.3	<4.3	<4.3	<4.3	<4.3	<4.4	<4.3	<4.3	<4.3
Dichlorodifluoromethane	NA	NA	2.7	3.1	<2.5	<7.5	<2.5	<5.3	<2.5	<2.5	<2.5	3.3	3.1	2.7	<2.5	<2.5	<6.3	<2.5	<2.5	<2.5
Dichlorotetrafluoroethane	NA	NA 150000	<3.5	<3.5	<3.5	<10	<3.5	<3.0	<3.5	<3.5	<3.5	<3.5	<3.5	<3.5	<3.5	<3.5	<3.6	<3.5	<3.5	<3.5
Ethanol	420000	150000	1200	340	650	320	170	24.9	97	24	490	210	280	1200	9.9	130	23.7	180	36	470
Ethyl acetate	80000	30000	2.0	3.7	3.8	<5.4	<1.8	<1.5	<1.8	<1.8	<1.8	4.7	2.3	4.3	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8
Ethylbenzene Hexachlorobutadiene	390 10	41 5	0.99 <5.3	1.8 <5.3	2.0 <5.3	8.0 <16	3.2 <5.3	2.5 <4.6	2.2 <5.3	<0.87 <5.3	4.5 <5.3	0.92 <5.3	1.4 <5.3	1.7 <5.3	2.4 <5.3	2.7 <5.3	91.3 <5.5	1.2 <5.3	<0.87 <5.3	4 <5.3
Isopropyl alcohol	200000	70000	540	300	190	64	35	66.6	14	21	13	110	210	300	39	38	33.9	14	29	18
m,p-Xylene	3000	1000	3.3	6.9	7.0	23	13	4.5	11	2	3.6	3.6	5.2	6.0	9.8	11	304	4.3	<1.7	2
Methyl butyl ketone (2-Hexanone)	1110	310	<2.0	<2.0	<2.0	<6.0	<2.0	<1.7	<2.0	<2.0	2.1	<2.0	<2.0	<2.0	<2.0	<2.0	6.7	<2.0	<2.0	<2.0
Methyl isobutyl ketone	80000	30000	<2.0	<2.0	<2.0	<6.0	<2.0	<1.7	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	7.7	<2.0	<2.0	<2.0
Methyl tert-butyl ether	80000	30000	<1.8	<1.8	<1.8	<5.4	<1.8	<1.5	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	12.6	<1.8	<1.8	<1.8
Methylene chloride (Dichloromethane)	21,000	6,300	2.4	2.2	<1.7	<5.1	<1.7	<7.4	<1.7	3.3	4	1.8	<1.7	5.0	<1.7	1.8	76.2	<1.7	6.3	<1.7
Naphthalene	300	90	<2.6	<2.6	<2.6	9.6	4.3	<5.6	<2.6	<2.6	<2.6	<2.6	<2.6	<2.6	3.9	4.5	36.3	<2.6	<2.6	<2.6
n-Heptane	NA	NA	<2.0	<2.0	<2.0	<60	45	<1.7	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	29	32.3	<2.0	<2.0	<2.0
n-Hexane	60000	20000	<1.8	2.6	2.3	<5.4	1.9	3.3	2.8	4.2	38	<1.8	<1.8	2.8	<1.8	<1.8	63.6	<1.8	2.2	8.3
o-Xylene	3000	1000	1.2	2.4	2.0	6.3	5.6	2.7	4.1	<0.87	1.8	1.3	1.9	1.9	4.1	4.9	33.7	1.3	<0.87	<0.87
Propylene	80000	30000	<0.86	<0.86	<0.86	<2.6	<0.86	<1.8	<0.86	<0.86	<0.86	<0.86	<0.86	<0.86	<0.86	<0.86	4.6	<0.86	<0.86	<0.86
Styrene	30000	10000	<2.1	<2.1	<2.1	<6.3	<2.1	<4.5	<2.1	<2.1	14	<2.1	<2.1	<2.1	<2.1	<2.1	<5.4	<2.1	<2.1	23
Tetrachloroethene	330	33	<3.4	87	17	15	720	21.2	440	18	26	<3.4	880	15	14	490	17.1	1300	17	20
Tetrahydrofuran	NA	NA	<1.5	5.3	5.1	<4.5	<1.5	<1.3	<1.5	3.4	3.8	<1.5	4.0	5.1	<1.5	<1.5	<1.5	<1.5	4.4	3.5
Toluene	100000	50000	13	54	12	34	59	38.5	15	94	3900	6.1	24	11	26	32	55.2	3.4	49	970
trans-1,2-Dichloroethene	NA	NA	<2.0	<2.0	<2.0	<6.0	<2.0	<1.7	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	5.5	<2.0	10.4	<2.0	6.5	<2.0
trans-1,3-Dichloropropene	600	200	<2.3	<2.3	<2.3	<6.9	<2.3	<4.8	<2.3	<2.3	<2.3	<2.3	<2.3	<2.3	<2.3	<2.3	<5.8	<2.3	<2.3	<2.3
Trichloroethene	70	21	<1.1	<1.1	<1.1	<3.3	5.8	<1.2	<1.1	27	<2.7	<1.1	1.5	<1.1	<1.1	1.5	<1.4	1.6	7	<2.7
Trichlorofluoromethane	20000	7000	<2.8	<2.8	<2.8	<8.4	<2.8	<2.4	<2.8	<2.8	<2.8	<2.8	<2.8	<2.8	<2.8	<2.8	<2.9	<2.8	<2.8	<2.8
Trichlorotrifluoroethane	800000	300000	<3.8	56	4.7	<11	8.4	<3.4	11	<3.8	<3.8	<3.8	33	<3.8	<3.8	4.2	<4.0	3700	<3.8	<3.8
Vinyl acetate	6000	2000	<1.8	<1.8	<1.8	<5.4	<1.8	<1.5	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8 <1.3
Vinyl chloride	220	32	< 0.51	< 0.51	< 0.51	<1.5	< 0.51	< 0.55	< 0.51	< 0.51	<1.3	< 0.51	< 0.51	< 0.51	< 0.51	< 0.51	< 0.66	< 0.51	< 0.51	

Notes:

BOLD: exceeds laboratory method detection.

exceeds applicable MPCA 10X Commercial/Industrial ISV.

Interim MPCA ISVs, May 25, 2016.

1 of 3 7/29/20169:43 AM

Table 8 Soil Vapor Sampling Results MN Bio Business Center Rochester, MN (ug/m³)

	MPCA	MPCA	LSG-9	LSG-9	LSG-9	LSG-9	LSG-9	LSG-9	LSG-9	LSG-9	LSG-9	LSG-10	LSG-10	LSG-10	LSG-10	LSG-10	LSG-10	LSG-10	LSG-10	LSG-10
	Commercial	Residential	6/23/2016	2/24/2016	1/12/2016	9/8/2015	2/26/2015	8/22/2014	2/18/2014	10/18/2013	12/21/2012	6/23/2016	2/24/2016	1/12/2016	9/8/2015	2/26/2015	8/22/2014	2/18/2014	10/18/2013	
Parameter	10X ISV	10X ISV	Legend	Legend	Legend	Legend	Legend	Pace	Legend	Legend	Legend	Legend	Legend	Legend	Legend	Legend	Pace	Legend	Legend	Legend
1,1,1-Trichloroethane	100000	50000	<2.7	<2.7	<2.7	<2.7	3.8	<3.5	<2.7	<2.7	<2.7	<2.7	<2.7	<2.7	<2.7	<2.7	<2.5	<2.7	<2.7	<2.7
1,1,2,2-Tetrachloroethane	10	2	<3.4	<3.4	<3.4	<3.4	<3.4	<2.2	<3.4	<3.4	<3.4	<3.4	<3.4	<3.4	<3.4	<3.4	<1.6	<3.4	<3.4	<3.4
1,1,2-Trichloroethane	20	6	<2.7	<2.7	<2.7	<2.7	<2.7	<1.7	<2.7	<2.7	<2.7	<2.7	<2.7	<2.7	<2.7	<2.7	<1.3	<2.7	<2.7	<2.7
1,1-Dichloroethane	10000	5000	<2.0	<2.0	<2.0	<2.0	<2.0	<2.6	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<1.9	<2.0	<2.0	<2.0
1,1-Dichloroethene	6000	2000	<2.0	<2.0	<2.0	<2.0	<2.0	<2.6	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<1.9	<2.0	<2.0	<2.0
1,2,4-Trichlorobenzene	100	40	<3.7	<3.7	<3.7	4.9	<3.7	<4.8	<3.7	<3.7	<3.7	<3.7	<3.7	<3.7	4.9	<3.7	<3.5	<3.7	<3.7	<3.7
1,2,4-Trimethylbenzene	200	70	1.1	1.2	1.7	6.4	22	4.5	2.1	<1.0	1.5	2.2	<1.0	2.1	5.7	22	3.5	1.1	<1.0	3.4
1,2-Dibromoethane	1	0.2	<3.8	<3.8	<3.8	<3.8	<3.8	<4.9	<3.8	<3.8	<3.8	<3.8	<3.8	<3.8	<3.8	<3.8	<3.6	<3.8	<3.8	<3.8
1,2-Dichlorobenzene	6000	2000	<3.0	<3.0	<3.0	<3.0	<3.0	<3.9	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<2.8	<3.0	<3.0	<3.0
1,2-Dichloroethane	10	4	<2.0	<2.0	<2.0	<2.0	<2.0	<1.3	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<0.94	<2.0	<2.0	<2.0
1,2-Dichloropropane	100 200	40	<2.3 <1.0	<2.3	<2.3 <1.0	<2.3 2.0	<2.3 4.3	<3.0 4	<2.3 <1.0	<2.3 <1.0	<2.3	<2.3	<2.3 <1.0	<2.3 <1.0	<2.3 1.8	<2.3 4.3	<2.2 3.2	<2.3 <1.0	<2.3 <1.0	<2.3 1.4
1,3,5-Trimethylbenzene	200	60	1	<1.0				<1.4		1	<0.98	<1.0				1	<1.0	+	+	
1,3-Butadiene 1,3-Dichlorobenzene	NA NA	NA	<1.1 <3.0	<1.1 <3.0	<1.1 <3.0	<1.1 <3.0	<1.1 <3.0	<3.9	<1.1 <3.0	<1.1 <3.0	<1.1 <3.0	<1.1 <3.0	<1.1 <3.0	<1.1 <3.0	<1.1 <3.0	<1.1 <3.0	<2.8	<1.1 <3.0	<1.1 <3.0	<1.1 <3.0
1,4-Dichlorobenzene	2000	600	<3.0	<3.0	<3.0	<3.0	<3.0	<3.9	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<2.8	8.1	<3.0	<3.0
2-Butanone	100000	50000	2.0	6.6	8.2	29	<1.5	3.6	8.3	1.7	6.1	3.6	4.0	6.5	7.8	2.6	<1.4	1.7	3.2	11
4-Ethyltoluene	NA NA	NA	<2.5	<2.5	<2.5	<2.5	3.8	<3.2	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	4.2	3.8	<2.5	<2.5	<2.5
Acetone	870000	310000	35	43	33	12	12	32.8	97	8.6	35	74	64	28	45	35	25.1	13	32	390
Benzene	450	46	<0.64	0.88	0.96	0.96	1.3	1.2	1.1	<0.64	<0.64	<0.64	0.75	0.84	<0.64	1.4	<0.74	<0.64	<0.64	0.72
Benzyl chloride	30	10	<2.6	<2.6	<2.6	<2.6	<2.6	<3.3	<2.6	<2.6	<2.6	<2.6	<2.6	<2.6	<2.6	<2.6	<2.4	<2.6	<2.6	<2.6
Bromodichloromethane	NA	NA	<3.4	<3.4	<3.4	<3.4	<3.4	<4.3	<3.4	<3.4	<3.4	<3.4	<3.4	<3.4	<3.4	<3.4	<3.1	<3.4	<3.4	<3.4
Bromoform	300	90	<5.2	<5.2	<5.2	<5.2	<5.2	<16.6	<5.2	<5.2	<5.2	<5.2	<5.2	<5.2	<5.2	<5.2	<12.0	<5.2	<5.2	<5.2
Bromomethane	100	50	<1.9	<1.9	<1.9	<1.9	<1.9	<2.5	<1.9	<1.9	<1.9	<1.9	<1.9	<1.9	<1.9	<1.9	<1.8	<1.9	<1.9	<1.9
Carbon disulfide	20000	7000	<1.6	<1.6	<1.6	<1.6	<1.6	<2.0	<1.6	<1.6	<1.6	<1.6	<1.6	<1.6	<1.6	<1.6	<1.4	<1.6	<1.6	<1.6
Carbon tetrachloride	160	17	<3.1	<3.1	<3.1	<3.1	<3.1	<2.0	<3.1	<3.1	<3.1	<3.1	<3.1	<3.1	<3.1	<3.1	<1.5	<3.1	<3.1	<3.1
Chlorobenzene	1000	500	<2.3	<2.3	<2.3	<2.3	<2.3	<3.0	<2.3	<2.3	<2.3	<2.3	<2.3	<2.3	<2.3	<2.3	<2.2	<2.3	<2.3	<2.3
Chloroethane	300000	100000	<1.3	<1.3	<1.3	<1.3	<1.3	<1.7	<1.3	<1.3	<1.3	<1.3	<1.3	<1.3	<1.3	<1.3	<1.2	<1.3	<1.3	<1.3
Chloroform	3000	1000	<2.4	<2.4	<2.4	<2.4	<2.4	<1.6	<2.4	<2.4	<2.4	<2.4	<2.4	<2.4	<2.4	<2.4	<1.1	<2.4	<2.4	<2.4
Chloromethane	3000	900	1.2	<1.0	<1.0	<1.0	<1.0	<1.3	<1.0	<1.0	<1.0	1.1	<1.0	<1.0	<1.0	<1.0	<0.96	<1.0	<1.0	<1.0
cis-1,2-Dichloroethene	NA	NA	<2.0	<2.0	<2.0	<2.0	<2.0	<2.6	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<1.9	<2.0	<2.0	<2.0
cis-1,3-Dichloropropene	600	200	<2.3	<2.3	<2.3	<2.3	<2.3	<7.3	<2.3	<2.3	<2.3	<2.3	<2.3	<2.3	<2.3	<2.3	<5.3	<2.3	<2.3	<2.3
Cyclohexane	200000	60000	<1.7	<1.7	<1.7	6.2	2.2	<5.5	10	<1.7	11	1.8	<1.7	<1.7	7.8	11	14.5	1.8	11	47
Dibromochloromethane	NA	NA	<4.3	<4.3	<4.3	<4.3	<4.3	<5.5	<4.3	<4.3	<4.3	<4.3	<4.3	<4.3	<4.3	<4.3	<4.0	<4.3	<4.3	<4.3
Dichlorodifluoromethane Dichlorotetrafluoroethane	NA NA	NA NA	4.1 <3.5	2.9 <3.5	2.7 <3.5	<2.5 <3.5	<2.5 <3.5	<7.9 <4.5	<2.5 <3.5	<2.5 <3.5	<2.5 <3.5	<2.5 <3.5	2.8 <3.5	2.8 <3.5	<2.5 <3.5	<2.5 <3.5	<5.7 <3.3	<2.5 <3.5	<2.5 <3.5	<2.5 <3.5
Ethanol	420000	150000	1600	640	890	18	210	4.5	310	35	240	1100	330	590	35	190	22.8	120	85	1700
Ethyl acetate	80000	30000	<1.8	6.4	4.0	<1.8	<1.8	<2.3	6.9	<1.8	<1.8	<1.8	2.2	3.3	<1.8	<1.8	<1.7	<1.8	<1.8	<1.8
Ethylbenzene	390	41	1.2	2.6	1.7	3.8	3.4	3.7	2.5	<0.87	0.96	1.7	1.8	2.1	2.7	3.4	2.8	1.6	<0.87	3.2
Hexachlorobutadiene	10	5	<5.3	<5.3	<5.3	<5.3	<5.3	<7.0	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.0	<5.3	<5.3	<5.3
Isopropyl alcohol	200000	70000	890	450	250	40	39	9	76	40	20	530	290	170	45	33	37.8	11	80	26
m,p-Xylene	3000	1000	5.9	9.2	6.4	16	14	5.6	5.9	<1.7	<1.7	9.2	6.8	7.4	11	14	5	6.3	<1.7	3.2
Methyl butyl ketone (2-Hexanone)	1110	310	<2.0	<2.0	<2.0	<2.0	<2.0	<2.6	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<1.9	<2.0	<2.0	2.3
Methyl isobutyl ketone	80000	30000	<2.0	<2.0	<2.0	<2.0	<2.0	<2.6	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<1.9	<2.0	<2.0	2.6
Methyl tert-butyl ether	80000	30000	<1.8	<1.8	<1.8	<1.8	<1.8	<2.3	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.7	<1.8	<1.8	<1.8
Methylene chloride (Dichloromethane)	21,000	6,300	<1.7	<1.7	<1.7	2.5	<1.7	<11.2	9.3	<1.7	2.6	2.2	6.0	<1.7	<1.7	<1.7	22.8	<1.7	<1.7	2.1
Naphthalene	300	90	<2.6	<2.6	<2.6	3.5	4.5	<8.4	<2.6	<2.6	<2.6	<2.6	<2.6	<2.6	3.4	3.8	<6.1	<2.6	<2.6	<2.6
n-Heptane	NA	NA	<2.0	<2.0	<2.0	<2.0	61	<2.6	2.1	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	56	1.9	<2.0	<2.0	<2.0
n-Hexane	60000	20000	<1.8	<1.8	<1.8	10	2.1	6.8	32	<1.8	4.6	3.7	5.8	3.5	15	23	43.2	2.5	37	220
o-Xylene	3000	1000	3.1	3.1	1.9	5.9	5.8	4.1	<0.87	<0.87	<0.87	5.1	2.2	2.1	4.3	5.9	3.2	2.1	<0.87	1.6
Propylene	80000	30000	<0.86	<0.86	<0.86	<0.86	<0.86	<2.8 <6.8	<0.86	<0.86	<0.86	<0.86	<0.86	<0.86	<0.86	<0.86	<2.0	<0.86	<0.86	<0.86
Styrene	30000 330	10000	<2.1 32	<2.1 9.3	<2.1	<2.1 90	<2.1	<6.8 85.3	7.3	<2.1	<2.1	<2.1	<2.1 85	<2.1 16	<2.1 24	<2.1	<4.9	<2.1	<2.1	6.8
Tetrachloroethene		33			15		3200		11	31	150	<3.4				1500	35.7	970	21	
Tetrahydrofuran Toluene	NA 100000	NA 50000	<1.5 2.6	5.5 31	5.4 12	1.6 30	<1.5 11	<1.9 18.3	5.1 200	6.1 1.7	6.9 21	<1.5 32	4.1 62	4.8 12	<1.5 55	<1.5 150	<1.4 175	<1.5 6.4	6.9 110	3.7 3900
trans-1,2-Dichloroethene	NA	NA	2.6 <2.0	<2.0	<2.0	<2.0	<2.0	<2.6	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<1.9	<2.0	<2.0	<2.0
trans-1,2-Dichloropene	600	200	<2.0	<2.3	<2.0	<2.3	<2.0	<7.3	<2.3	<2.0	<2.3	<2.3	<2.3	<2.0	<2.3	<2.0	<5.3	<2.3	<2.0	<2.0
Trichloroethene	70	21	<1.1	<1.1	<1.1	<1.1	4.3	<1.7	3.2	<1.1	<2.7	<1.1	<1.1	<1.1	<1.1	1.7	<1.3	1.4	<1.1	<2.7
Trichlorofluoromethane	20000	7000	<2.8	<2.8	<2.8	<2.8	<2.8	<3.6	<2.8	<2.8	<2.8	<2.8	<2.8	<2.8	<2.8	<2.8	<2.6	<2.8	<2.8	<2.8
Trichlorotrifluoroethane	800000	300000	<3.8	15	61	6.3	1500	32	<3.8	<3.8	1300	<3.8	190	13	<3.8	29	<3.7	42	<3.8	6.9
Vinyl acetate	6000	2000	<1.8	<1.8	<1.8	<1.8	<1.8	<2.3	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.6	<1.8	<1.8	<1.8
Vinyl chloride	220	32	<0.51	<0.51	<0.51	<0.51	<0.51	<0.82	<0.51	<0.51	<1.3	<0.51	<0.51	<0.51	<0.51	<0.51	<0.60	<0.51	<0.51	<1.3
Notes:																				

Notes:
BOLD: exceeds laboratory method detection.

exceeds applicable MPCA 10X Commercial/Industrial ISV.

Interim MPCA ISVs, May 25, 2016.

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Table 8 Soil Vapor Sampling Results MN Bio Business Center Rochester, MN (ug/m³)

	MPCA	MPCA	SP-1	SP-1	SP-1	SP-1	SP-1	SP-1	SP-1	SP-1	SP-1	SP-2	SP-2	SP-2	SP-2	SP-2	SP-2	SP-2	SP-2	SP-2
	Commercial	Residential	6/23/2016	2/24/2016	3P-1 1/12/2016	5P-1 9/8/2015	2/26/2015	8/22/2014	3/14/2014	10/18/2013	12/21/2012	6/23/2016	2/24/2016	3P-2 1/12/2016	9/8/2015	2/26/2015	8/22/2014	3/14/2014	3P-2 10/18/2013	3P-2 12/21/2012
Parameter	10X ISV	10X ISV	Legend	Legend	Legend	Legend	Legend	Pace	Legend	Legend	Legend	Legend	Legend	Legend	Legend	Legend	Pace	Legend	Legend	Legend
1,1,1-Trichloroethane	100000	50000	<2.7	<2.7	<2.7	<2.7	<2.7	<2.5	<2.7	<2.7	<2.7	<2.7	<2.7	<2.7	<2.7	<2.7	<3.3	3.3	<2.7	<2.7
1,1,2,2-Tetrachloroethane	10	2	<3.4	<3.4	<3.4	<3.4	<3.4	<1.6	<3.4	<3.4	<3.4	<3.4	<3.4	<3.4	<3.4	<3.4	<2.1	<3.4	<3.4	<3.4
1,1,2-Trichloroethane	20	6	<2.7	<2.7	<2.7	<2.7	<2.7	<1.3	<2.7	<2.7	<2.7	<2.7	<2.7	<2.7	<2.7	<2.7	<1.6	<2.7	<2.7	<2.7
1,1-Dichloroethane	10000	5000	<2.0	<2.0	<2.0	<2.0	<2.0	<1.9	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.4	<2.0	<2.0	<2.0
1,1-Dichloroethene	6000	2000	<2.0	<2.0	<2.0	<2.0	<2.0	<1.9	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.4	<2.0	<2.0	<2.0
1,2,4-Trichlorobenzene	100	40	<3.7	<3.7	<3.7	<3.7	<3.7	<3.5	<3.7	<3.7	<3.7	<3.7	<3.7	<3.7	4.9	<3.7	<4.5	<3.7	<3.7	<3.7
1,2,4-Trimethylbenzene	200	70	1.1	<1.0	1.5	6.0	16	4.8	4.6	<1.0	<0.98	<1.0	<1.0	<1.0	3.8	15	<3.0	4.8	<1.0	<0.98
1,2-Dibromoethane	1	0.2	<3.8	<3.8	<3.8	<3.8	<3.8	<3.6	<3.8	<3.8	<3.8	<3.8	<3.8	<3.8	<3.8	<3.8	<4.6	<3.8	<3.8	<3.8
1,2-Dichlorobenzene	6000	2000	<3.0	<3.0	<3.0	<3.0	<3.0	<2.8	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.6	<3.0	<3.0	<3.0
1,2-Dichloroethane	10	4 40	<2.0	<2.0	<2.0	<2.0	<2.0	<0.94	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<1.2	<2.0	<2.0	<2.0 <2.3
1,2-Dichloropropane 1,3,5-Trimethylbenzene	100 200	60	<2.3 <1.0	<2.3 <1.0	<2.3 <1.0	<2.3 1.8	<2.3 2.4	<2.2 3.5	<2.3 1.2	<2.3 <1.0	<2.3 <0.98	<2.3 <1.0	<2.3 <1.0	<2.3 <1.0	<2.3 1.2	<2.3 2.6	<2.8 <3.0	<2.3 <1.0	<2.3 <1.0	<0.98
1,3-Butadiene	27	3	<1.0	<1.1	<1.0	<1.1	<1.1	<1.0	<1.1	<1.1	<1.1	<1.0	<1.1	<1.1	<1.1	<1.1	<1.3	<1.0	<1.0	<1.1
1,3-Dichlorobenzene	NA NA	NA NA	<3.0	<3.0	<3.0	<3.0	<3.0	<2.8	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.6	<3.0	<3.0	<3.0
1,4-Dichlorobenzene	2000	600	<3.0	<3.0	<3.0	<3.0	<3.0	<2.8	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.6	<3.0	<3.0	<3.0
2-Butanone	100000	50000	1.8	3.7	3.8	56	1.9	3	6.3	<1.5	<1.5	<1.5	4.0	2.7	32	<1.5	7.5	8.4	2.3	3.1
4-Ethyltoluene	NA NA	NA	<2.5	<2.5	<2.5	<2.5	3	4.3	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<3.0	<2.5	<2.5	<2.5
Acetone	870000	310000	34	43	35	45	12	17.5	32	23	5.3	43	37	17	42	9.2	17.7	45	35	4.7
Benzene	450	46	0.73	0.74	0.91	0.66	0.86	0.96	1.2	<0.64	<0.64	<0.64	0.71	0.75	<0.64	0.89	<0.97	1.2	<0.64	0.73
Benzyl chloride	30	10	<2.6	<2.6	<2.6	<2.6	<2.6	<2.4	<2.6	<2.6	<2.6	<2.6	<2.6	<2.6	<2.6	<2.6	<3.1	<2.6	<2.6	<2.6
Bromodichloromethane	NA	NA	<3.4	<3.4	<3.4	<3.4	<3.4	<3.1	<3.4	<3.4	<3.4	<3.4	<3.4	<3.4	<3.4	<3.4	<4.0	<3.4	<3.4	<3.4
Bromoform	300	90	<5.2	<5.2	<5.2	<5.2	<5.2	<12.0	<5.2	<5.2	<5.2	<5.2	<5.2	<5.2	<5.2	<5.2	<15.6	<5.2	<5.2	<5.2
Bromomethane	100	50	<1.9	<1.9	<1.9	<1.9	<1.9	<1.8	<1.9	<1.9	<1.9	<1.9	<1.9	<1.9	<1.9	<1.9	<2.3	<1.9	<1.9	<1.9
Carbon disulfide	20000	7000	<1.6	<1.6	2.8	<1.6	<1.6	<1.4	<1.6	<1.6	<1.6	<1.6	<1.6	<1.6	<1.6	<1.6	<1.9	<1.6	<1.6	<1.6
Carbon tetrachloride	160	17	<3.1	<3.1	<3.1	<3.1	<3.1	<1.5	<3.1	<3.1	<3.1	<3.1	<3.1	<3.1	<3.1	<3.1	<1.9	<3.1	<3.1	<3.1
Chlorobenzene	1000	500	<2.3	<2.3	<2.3	<2.3	<2.3	<2.2	<2.3	<2.3	<2.3	<2.3	<2.3	<2.3	<2.3	<2.3	<2.8	<2.3	<2.3	<2.3
Chloroethane	300000	100000	<1.3	<1.3	<1.3	<1.3	<1.3	<1.2	<1.3	<1.3	<1.3	<1.3	<1.3	<1.3	<1.3	<1.3	<1.6	<1.3	<1.3	<1.3
Chloroform	3000	1000	<2.4	<2.4	<2.4	<2.4	<2.4	<1.1	2.5	<2.4	<2.4	<2.4	<2.4	<2.4	<2.4	<2.4	<1.5	<2.4	<2.4	<2.4
Chloromethane	3000	900	1.2	<1.0	<1.0	<1.0	<1.0	<0.96	<1.0	<1.0	<1.0	1.1	<1.0	<1.0	<1.0	<1.0	<1.2	<1.0	<1.0	<1.0
cis-1,2-Dichloroethene	NA	NA	<2.0	<2.0	<2.0	<2.0	<2.0	<1.9	2.4	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	3.1	<2.4	7	<2.0	<2.0
cis-1,3-Dichloropropene	600 200000	200 60000	<2.3 <1.7	<2.3 <1.7	<2.3 <1.7	<2.3 <1.7	<2.3 <1.7	<5.3 <4.0	<2.3 <1.7	<2.3 <1.7	<2.3 <1.7	<2.3 <1.7	<2.3 <1.7	<2.3 <1.7	<2.3 <1.7	<2.3 <1.7	<6.8 <5.2	<2.3 <1.7	<2.3 <1.7	<2.3 <1.7
Cyclohexane Dibromochloromethane	200000 NA	NA	<4.3	<4.3	<4.3	<4.3	<4.3	<4.0	<4.3	<4.3	<4.3	<4.3	<4.3	<4.3	<4.3	<4.3	<5.1	<4.3	<4.3	<4.3
Dichlorodifluoromethane	NA NA	NA NA	<2.5	3.2	3.7	<2.5	<2.5	<5.7	2.6	<2.5	<2.5	<2.5	2.9	2.8	<2.5	<2.5	<7.5	2.6	<2.5	<2.5
Dichlorotetrafluoroethane	NA	NA	<3.5	<3.5	<3.5	<3.5	<3.5	<3.3	<3.5	<3.5	<3.5	<3.5	<3.5	<3.5	<3.5	<3.5	<4.2	<3.5	<3.5	<3.5
Ethanol	420000	150000	1500	440	320	66	100	6	180	230	7.9	730	350	480	18	60	16.2	220	130	12
Ethyl acetate	80000	30000	<1.8	2.3	2.4	<1.8	<1.8	<1.7	<1.8	<1.8	<1.8	<1.8	2.5	<1.8	<1.8	<1.8	4.1	2.1	<1.8	<1.8
Ethylbenzene	390	41	<0.87	1.8	1.5	3.5	2.2	2.8	3.9	<0.87	<0.87	<0.87	1.8	1.6	1.7	1.6	<2.6	2.6	<0.87	<0.87
Hexachlorobutadiene	10	5	<5.3	<5.3	<5.3	<5.3	<5.3	<5.0	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<6.5	<5.3	<5.3	<5.3
Isopropyl alcohol	200000	70000	670	380	110	43	40	26.9	420	240	3.8	690	330	130	16	19	<3.7	790	170	4.8
m,p-Xylene	3000	1000	2.2	6.9	5.2	13	8.1	6.5	21	<1.7	<1.7	<1.7	6.8	5.4	6.8	6.1	<5.2	9	<1.7	<1.7
Methyl butyl ketone (2-Hexanone)	1110	310	<2.0	<2.0	<2.0	<2.0	<2.0	<1.9	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.5	<2.0	<2.0	<2.0
Methyl isobutyl ketone	80000	30000	<2.0	<2.0	<2.0	<2.0	<2.0	<1.9	4.3	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.5	5	<2.0	<2.0
Methyl tert-butyl ether	80000	30000	<1.8	<1.8	<1.8	<1.8	<1.8	<1.7	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	2.7	<1.8	<1.8	<1.8
Methylene chloride (Dichloromethane)	21,000	6,300	5.1	<1.7	51	3.7	<1.7	<8.1	<1.7	2.6	2.6	2.9	<1.7	<1.7	4.5	3.7	18.1	<1.7	2.1	2.2
Naphthalene	300	90	<2.6	<2.6	<2.6	3.1	3.1	<6.1	3.1	<2.6	<2.6	<2.6	<2.6	<2.6	3.5	3.7	<7.9	3.3	<2.6	<2.6
n-Heptane 	NA	NA	<2.0	<2.0	<2.0	<2.0	21	<1.9	4.3	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	13	<2.5	<2.0	<2.0	<2.0
n-Hexane	60000	20000	<1.8	<1.8	18	<1.8	<1.8	2.2	2.1	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	2.2	5.9	<1.8	<1.8	2.8
o-Xylene	3000	1000	<0.87	2.2	1.6	4.7	3.8	3.2	6.9	<0.87	<0.87	<0.87	2.3	1.4	2.6	2.8	<2.6	3.1	<0.87	<0.87
Propylene	80000 30000	30000 10000	<0.86	<0.86	<0.86	<0.86 <2.1	<0.86	<2.0 <4.9	<0.86	<0.86	<0.86	<0.86	<0.86 <2.1	<0.86 <2.1	<0.86 <2.1	<0.86	<2.6 <6.4	<0.86 <2.1	<0.86	<0.86 <2.1
Styrene Totrachloroothono	_		<2.1	<2.1	<2.1		<2.1 380	4	<2.1	<2.1	<2.1	<2.1	<u> </u>		3300	<2.1 2300	<6.4 480		<2.1	1
Tetrachloroethene Tetrachudrofuran	330 NA	33 NA	<3.4	72	130	59	-	14.9	250	9	47	360	83	14		+		120	10000	39
Tetrahydrofuran Toluene	100000	NA 50000	<1.5 2.9	3.8 68	2.9 9.5	18 28	<1.5 21	<1.4 6.1	6 13	3.9 1.8	<1.5 <0.75	<1.5 2.9	4.3 48	2.6 4.5	54 10	<1.5 13	4.2 2.7	7.6 8.3	<1.5 1.2	2.1 1.2
trans-1,2-Dichloroethene	NA	NA	<2.0	<2.0	<2.0	<2.0	<2.0	<1.9	<2.0	<2.0	<2.0	<2.0	<2.0	2.1	<2.0	<2.0	<2.4	<2.0	<2.0	<2.0
trans-1,3-Dichloropropene	600	200	<2.3	<2.3	<2.3	<2.3	<2.3	<5.3	<2.3	<2.3	<2.3	<2.3	<2.3	<2.3	<2.3	<2.3	<6.8	<2.3	<2.3	<2.3
Trichloroethene	70	21	<1.1	<1.1	<1.1	<1.1	<1.1	<1.3	1.9	<1.1	<2.7	<1.1	<1.1	<1.1	3.0	4	<1.6	1.8	3.3	<2.7
Trichlorofluoromethane	20000	7000	<2.8	<2.8	<2.8	<2.8	<2.8	<2.6	<2.8	<2.8	<2.8	<2.8	<2.8	<2.8	<2.8	<2.8	<3.4	<2.8	<2.8	<2.8
Trichlorotrifluoroethane	800000	300000	<3.8	1000	640	61	16	4.1	95	<3.8	75	62	45	<3.8	450	650	206	1600	900	6
Vinyl acetate	6000	2000	<1.8	<1.8	<1.8	<1.8	<1.8	<1.6	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<2.1	<1.8	<1.8	<1.8
Vinyl chloride	220	32	<0.51	<0.51	<0.51	<0.51	<0.51	<0.60	<0.51	<0.51	<1.3	<0.51	<0.51	<0.51	<0.51	<0.51	<0.77	<0.51	<0.51	<1.3
Notes: BOLD: exceeds laboratory method detection.																				

Notes:

BOLD: exceeds laboratory method detection.

exceeds applicable MPCA 10X Commercial/Industrial ISV.

Interim MPCA ISVs, May 25, 2016.

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Table 9

Soil Vapor and Venting System Field Monitoring Results

MN Bio Business Cenetr 221 1st Avenue SW Rochester, Minnesota

						Lower			
			Static Pressure		Methane	Explosive		Hydrogen	Carbon
	Date	Time	(+/-) Inch in WC	PID (nnm)		Limit	Oxygen	Sulfide	Monoxide
LSG-7	8/22/2014	1138	0.066	0.0	0.0	0.0	20.9	0.0	0.0
	2/26/2015	927	NR	1.0	NR	NR	NR	NR	NR
	9/8/2015	NR	NR	NR	0.0	0.0	20.9	0.0	0.0
	1/12/2016	1208	0.068	0.0	0.0	0.0	20.9	0.0	0.0
	2/23/2016	1700	NR	0.0	NR	NR	NR	NR	NR
	6/23/2016	1245	-0.103	0.0	0.0	0.0	20.9	0.0	0.0
LSG-8	8/22/2014	1155	0.051	0.0	0.0	0.0	20.9	0.0	0.0
	2/26/2015	944	NR	0.1	NR	NR	NR	NR	NR
	9/8/2015	NR	NR	NR	0.0	0.0	20.5	0.0	0.0
	1/12/2016	1115	0.092	0.0	0.0	0.0	20.9	0.0	0.0
	2/23/2016	1723	NR	0.0	NR	NR	NR	NR	NR
	6/23/2016	1259	-0.425	0.0	0.0	0.0	20.9	0.0	0.0
LSG-9	8/22/2014	1106	0.045	0.0	0.0	0.0	20.9	0.0	0.0
	2/26/2015	856	NR	2.8	NR	NR	NR	NR	NR
	9/8/2015	NR	NR	NR	0.0	0.0	20.9	0.0	0.0
	1/12/2016	1132	0.068	0.0	0.0	0.0	20.9	0.0	0.0
	2/23/2016	1603	NR	0.0	NR	NR	NR	NR	NR
	6/23/2016	1206	-0.831	0.0	0.0	0.0	20.9	0.0	0.0
LSG-10	8/22/2014	1122	0.048	0.0	0.0	0.0	20.9	0.0	0.0
	2/26/2015	908	NR	0.3	NR	NR	NR	NR	NR
	9/8/2015	NR	NR	NR	0.0	0.0	20.9	0.0	0.0
	1/12/2016	1147	0.089	0.0	0.0	0.0	20.9	0.0	0.0
	2/23/2016	1632	NR	0.0	NR	NR	NR	NR	NR
0D 4	6/23/2016	1222	-0.823	0.0	0.0	0.0	20.9	0.0	0.0
SP-1	8/22/2014	1210	0.024	0.0	0.0	0.0	20.9	0.0	0.0
	2/26/2015	956	NR	0.2	NR	NR	NR	NR	NR
	9/8/2015	NR	NR	NR	NR	NR	NR	NR	NR
	1/12/2016 2/23/2016	1253	NR	0.0 1.1	0.0	0.0	20.9 NR	0.0	0.0 NR
	6/23/2016	1620 1316	NR NR	0.0	NR 0.0	NR 0.0	20.9	NR 0.0	0.0
SP-2	8/22/2014	1220	0.000	0.0	0.0	0.0	20.9	0.0	0.0
3F-2	2/26/2015	1009	NR	0.0	NR	NR	NR	NR	NR
	9/8/2015	NR	NR	NR	NR	NR	NR	NR	NR
	1/12/2016	1236	NR	0.0	0.0	0.0	20.9	0.0	0.0
	2/23/2016	1711	NR	0.0	NR	NR	NR	NR	NR
	6/23/2016	1122	NR	0.0	0.0	0.0	20.9	0.0	0.0
PV-1	8/22/2014	NR	0.059	0.0	0.0	0.0	20.9	0.0	0.0
	2/26/2015	NR	NR	0.0	NR	NR	NR	NR	NR
	9/8/2015	NR	NR	0.0	NR	NR	NR	NR	NR
	1/12/2016	NR	NR	NR	NR	NR	NR	NR	NR
PV-2	8/22/2014	NR	0.063	0.0	0.0	0.0	20.9	0.0	0.0
	2/26/2015	NR	NR	0.0	NR	NR	NR	NR	NR
	9/8/2015	NR	NR	0.9	NR	NR	NR	NR	NR
	1/12/2016	NR	NR	NR	NR	NR	NR	NR	NR
PV-3	8/22/2014	NR	0.067	0.2	0.0	0.0	20.9	0.0	0.0
	2/26/2015	NR	NR	0.0	NR	NR	NR	NR	NR
	9/8/2015	NR	NR	NR	NR	NR	NR	NR	NR
	1/12/2016	NR	NR	NR	NR	NR	NR	NR	NR

Notes:

NR: Not recorded. NA: Not analyzed

SYSTEM OPERATION AND MAINTENANCE SUMMARY MN Bio Business Center

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Date	Approximate Time	Sensophone Call Received?	Alarm Condition	DPE System Status	Comments
9-Apr-09	NA	NA	NA	Off	DPE system temporary startup. Sampled initial DPE groundwater discharge and air emissions. System shut down to determine if air emissions and/or groundwater treatment were necessary.
4-Jun-09	NA	NA	NA	Off	Air stripper installed. Air stripper air emissions and influent and effluent groundwater samples collected.
5-Jun-09	NA	NA	NA	Off/On	Installed temporary secondary containment around DPE room door way. DPE system left on.
6-Jun-09	19:00	Y	MS High Level	On/Off	
8-Jun-09	NA	NA	NA	Off	Landmark on site to clean MS float switch assembly. DPE system left off per client request until elevator pit drain tile sump can be connected to the air stripper, a permanent secondary containment berm can be installed, and additional floor sump alarm and conductivity meter can be installed.
19-Jun-09	NA	NA	NA	Off	Landmark onsite to monitor elevator pit sump water levels and PID readings.
23-Jun-09	NA	NA	NA	Off	Landmark, SDE, and Muska on site to install permanent secondary containment berm and sump pit flow meter.
25-Jun-09	NA	NA	NA	Off	Landmark and PLC on site to terminate switches to the control panel. Noticed lower trilevel float switch is getting caught on the site tube. PLC to replace MS trilevel float assembly. Pumped 300 gallons of water from elevator drain tile sump through the air stripper. Sump appears to be recharging with water.
29-Jun-09	NA	NA	NA	Off/On	Landmark replaced MS trilevel float assembly. Bottom float still catches on site tube; therefore, Landmark installed JB-welded washers onto float assembly. Also compared flow meter readings with handheld monitor; replaced leaking air stripper hoses; recorded all system data from gauges and control panel. System restarted for permanent operation.
9-Jul-09	NA	NA	NA	On	Landmark onsite to troubleshoot low flowrate and vacuum readings observed remotely, to collect fluid level measurements at each well, to check the vacuum influence from DPE-1 operation at each DPE well head location; collect operational data during operation of DPE-1; to conduct a groundwater recovery test a DPE-1; modified the drop tube at DPE-3; and collected operational data wile operating on DPE-3. Kept system operating on DPE-1. Sampled groundwater discharge.
18-Jul-09	NA	No	DPE Pump Motor Fault	On/Off	
20-Jul-09	NA	NA	DPE Pump Motor Fault	Off	Received a call from Paramark stating the DPE was off and there was about 1 quart of oil leaking from the DPE pump.
22-Jul-09	NA	NA	DPE Pump Motor Fault	Off	Landmark onsite to troubleshoot DPE system shut down and determine the source of the oil leak.
24-Jul-09	NA	NA	DPE Pump Motor Fault	Off	Landmark and PLC onsite to remove DPE pump and deliver to John Henry Foster for Repair.
11-Aug-09	NA	NA	DPE Pump Motor Fault	Off/On	Landmark and PLC onsite to reinstall repaired DPE pump and restart the system. Landmark installed thermometer to monitor the ambient and max temperature in the DPE room in two different locations. Landmark swept, vacuumed, and mopped the floor several times to prevent dust from passing through the vacuum relief valve and clogging the pump inlet screen. PLC fixed the sensaphone. PLC and Landmark checked flow rate readings with blower curve. DPE system was restarted.
14-Aug-09	13:17	Y	DPE Pump High Inlet Vacuum	On/Off/On	Paramark opened all of the individual DPE well bleed valves and restarted the system.
16-Aug-09	4:34	Υ	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 in
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%.

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Date	Approximate Time	Sensophone Call Received?	Alarm Condition	DPE System Status	Comments
4-Sep-09	NA	NA	NA	On	Landmark on site to conduct monthly monitoring and sampling event, install 1 micron moisture separator filter, and install new pump intake screen.
16-Sep-09	19:26	Y	DPE Pump High Inlet Vacuum	On/Off	
17-Sep-09	NA	NA	DPE Pump High Inlet Vacuum	Off/On	Restarted system remotely. Directed Paramark to open DPE-1 bleed valve 100%.
	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.
28-Sep-09	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.
	6:32	Y	MS High Level	Off	
30-Sep-09	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.
27 000 00	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.
	11:16	Y	Hi Vacuum and Hi Inlet Vacuum	On/Off	System shut down from high inlet vacuum while operating at DPE-8.
5-Nov-09	11:36	NA	Hi Vacuum and Hi Inlet Vacuum	Off/On	System restarted remotely by Landmark. DPE-8 interval replaced by DPE-1 until Landmark is on site to modify the DPE-8's well head. Large pressure drop observed between VT1 an VT2. With Paramark's assistance, Landmark was able to determine the pressure drop was from a plugged DPE pump inlet screen.
	13:00	NA	NA	On/Off	Large pressure drop observed between VT1 an VT2 while Landmark checked the system remotely. With Paramark's assistance, Landmark was able to determine the pressure drop was from a plugged DPE pump inlet screen. System shut down by Landmark until screen could be cleaned.
6-Nov-09	NA	NA	NA	Off/On	Landmark onsite to install new inlet screen on DPE pump, tighten air stripper rods, inspect and clean inside of DPE-1 and DPE-3 aluminum solenoid valves, and restart the system.
7-Nov-09	20:15	Υ	Hi Vacuum and Hi Inlet Vacuum	On/Off	System shut down from high inlet vacuum while operating at DPE-4.
9-Nov-09	10:58	NA	Hi Vacuum and Hi Inlet Vacuum	Off/On	Landmark restarted the system remotely and adjusted the high vacuum alarm setpoints to 25 in. Hg.
15-Nov-09	6:27	Y	MS High Level	On/Off	
11/16/2009 and 11/17/09	NA	NA	MS High Level	Off/On	Landmark on site to conduct monthly monitoring and sampling event and quarterly groundwater monitoring event. Removed sediment from moisture separator, and modified DPE-8 well head, and cleaned pump inlet screen.

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Date	Approximate Time	Sensophone Call Received?	Alarm Condition	DPE System Status	Comments
26-Nov-09	3:45	Y	DPE Pump Hi Outlet Temperature	On/Off	
27-Nov-09	NA	NA	DPE Pump Hi Outlet Temperature	Off/On	Landmark on site to clean the pump inlet screen and restart the system.
4-Dec-09	NA	NA	NA	On/Off	Landmark on site to clean solenoid valves and apply corrosion resistant coating to valves; DPE-4 and DPE-5 well heads modified to entrain air through water level port.
7-Dec-09	NA	NA	NA	Off/On	Landmark on site to reassemble solenoid valves; raise the manifold 1 foot; clean the pump inlet screen; and restart the system.
17-Dec-09	NA	NA	NA	On	Landmark on site to conduct monthly monitoring and sampling event, replace pump inlet screen, clean moisture separator, and clean floats.
28-Dec-09	NA	NA	NA	On	Landmark on site to replace pump inlet screen after remote monitoring indicated it was about to shut down from being clogged.
11-Jan-10	NA	NA	NA	On/Off	Landmark shut down the system remotely after the remote data indicated the pump inlet screen was clogged and about to shut down the system.
14-Jan-10	NA	NA	NA	Off/On	Landmark on site to conduct monthly monitoring and sampling event, clean pump inlet screen, and clean moisture separator floats.
23-Jan-10	14:15	Υ	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.
3-Feb-10	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	
	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.
10-Feb-10	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.
11-Feb-10	12:54	Y	MS High Level	On/Off	
12-Feb-10	NA	NA	MS High Level	Off/On	Landmark onsite to troubleshoot the MS High Level alarm. Landmark performed the following tasks: checked the MS level switch configurations; ran diagnostic tests to narrow down the cause of the MS High Level alarm; replaced the check valve upstream of the MS pump; and, took apart the MS pump head to inspect and clean the internal pump parts.
16-Feb-10	NA	NA	NA	On	System is operational; however, remote monitoring of the system showed the MS transfer pump cycling every 2 minutes. Landmark onsite to replace the MS transfer pump stator, and troubleshoot the continuous cycling issue with the transfer pump.
22-Feb-10	NA	NA	NA	On	Landmark onsite to conduct monthly monitoring and sampling event, quarterly groundwater monitoring event, to disabled the sensaphone sound alarm, and remove sediment from the primary moisture separator (MS1).
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.

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Date	Approximate Time	Sensophone Call Received?	Alarm Condition	DPE System Status	Comments					
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.					
	5:16	Υ	DPE Pump High Inlet Vacuum	On/Off/On	System shut down during operation at DPE-8. System restarted remotely by Landmark.					
26-Mar-10	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.					
	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.					
29-Mar-10	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.					
	NA	NA	NA	On	Landmark remote troubleshooting of DPE-8. Operated DPE-8 without DPE-7.					
8-Apr-10	11:35	Y	DPE Pump High Inlet Vacuum	On/Off/On	Landmark modified the DPE system to allow DPE-7 to operate any time that DPE-8 is operating.					
12-Apr-10	12:36	Y	DPE Pump High Inlet Vacuum	On/Off/On	Landmark tested DPE-8 remotely to see if it could operate on its own. Landmark modified the DPE system to allow DPE-7 to operate any time that DPE-8 is operating.					
16-Apr-10	NA	NA	NA	On/Off/On	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	I Landmark is on site for routine monitoring and can troubleshoot DPE-1. The DPE pump high inlet vacuum alarm was reset to 24 inches Hg.					
8-Jul-10	0:27	Y	DPE Pump High Inlet Vacuum	On/Off/On	The system shut down after DPE-1 and DPE-8 operation switched to DPE-1 operation. Landmark restarted the system remotely and modified the system to operate DPE-1 and DPE-8 at the same time during 30 minutes of the DPE-1 cycle.					
9-Jul-10	0:37	Y	DPE Pump High Inlet Vacuum	On/Off/On	The system shut down after DPE-1 and DPE-8 operation switched to DPE-1 operation. Landmark restarted the system remotely and modified the system to operate DPE-1 and DPE-8 at the same time during the entire DPE-1 cycle.					

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26-Jul-10	NA	NA	NA	On	Landmark on site to conduct monthly monitoring and sampling event , cleaned the air strippe by adding 1/2 gallon of hydrochloric acid. DPE-1 troubleshooting by pulling piping out of DPE-1 for cleaning and inspection. Sediments may have been clogging screen. Also noticed sanitary well seal was broken and missing rubber pieces. Fluid levels were not collected due to instrument malfunction. Air sampling flow controller malfunctioned and only operated for 3 hours. Therefore, a 3 hour composite air sample was collected.
29-Jul-10	7:05	Y	DPE Pump Low Inlet Vacuum		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 an 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 16-Nov-10	NA 11:20	NA NA	NA NA	On On/Off	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. DPE system shut down due to a DPE pump oil leak discovered by Paramark.
18-Nov-10	NA	NA 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 an 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 monthl 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.
	NA	NA	NA	On	Landmark on site to install solenoid rebuild kits for DPE-1, 2, and 8.
6-Jan-11	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.
	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.
16-Feb-11	12:49	Υ	DPE Pump Low Inlet Vacuum	On/Off	
	13:49	NA	NA	Off/On	Landmark restarted the DPE system remotely. DPE-8 taken offline.
28-Feb-11	NA	NA	NA	On	Landmark onsite to conduct monthly system monitoring and sampling event and quarterly groundwater sampling event, change oil in the DPE pump (10,989 hrs), replaced hose from ai 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 separato 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 replace 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. Landmark onsite to conduct monthly monitoring and sampling event as well as quarterly
19-May-11	6:00	NA	NA	On	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 change oil at 13,314 hours and installed new vacuum gauge in DPE 4 manifold.

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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	the system after the power returned.
21-Jui-11	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.
	2:26	Y	Air Stripper High High Level	On/Off	
22-Jul-11	8:00	NA	NA	Off/On	Paramark onsite and turned AS pump to the "hand" position until the water level in the air stripper was below the High Level switch. Paramark returned AS pump to auto position and restarted the DPE system.
	9:06	Y	Air Stripper High High Level	On/Off	
27-Jul-11	9:00	NA	NA	On	Landmark onsite to conduct monthly monitoring and sampling event . Landmark also changed oil at 14,169 hours and installed installed new transfer pump stator as well as cleaned floats
28-Aug-11	11:00	NA	NA	On	Landmark onsite to conduct monthly monitoring and sampling event . Landmark also changed oil at 14,962 hours and installed new transfer pump stator as well as rebuilt DPE-1 solonoid valve.
8-Sep-11	15:18	NA	NA	On	Landmark changed the operational configuration to focus operation on DPE-1, DPE_2, DPE-3, and DPE-4.
29-Sep-11	11:40	NA	NA	On	Landmark onsite to conduct monthly monitoring and sampling event as well as quarterly groundwater sampling event. Landmark also changed oil at 15,722 hours and installed new moisture separator filters (both 1 micron).
2-Oct-11	14:11	Y	Air Stripper High High Level	On/Off	
4-Oct-11	10:46	NA	NA	Off	Landmark onsite to troubleshoot system alarm. Air stripper floats cleaned. Landmark cleaned moisture separator floats at MS-1 and noticed the bottom float was causing the transfer pump to operate continuously. Hunt Electric onsite to troubleshoot MS-1 float issues and confirmed the bottom reed of the tri-level float assembly was causing electrical connection in any float position. Hunt checked wiring from the tri-level assembly to the panel and found no issues.
11-Oct-11	12:28	NA	NA	Off	Landmark onsite replace the tri-level float switch for MS-1 and replace the transfer pump stator. The low float on the tri-level switch was 1/2-inch lower than previous switch and was allowing air through the transfer pump, preventing the low float from shutting down the transfer pump. The tri-level switch was returned to PLC to be rebuilt. Therefore the system could not be restarted.
18-Oct-11	10:00	NA	NA	Off/On	Landmark onsite to install a new float switch assembly for MS-1. System restarted.
27-Oct-11	8:00	NA	NA	On	Landmark onsite to conduct monthly monitoring and sampling event . Landmark also changed oil at 16,013 hours.
21-Nov-11	11:00	NA	NA	On	Landmark onsite to conduct monthly monitoring and sampling event . Landmark also changed oil at 16,619 hours.
2-Dec-11	8:52	Y	Lo Inlet Vacuum	On/Off	DPE system shut down due to a low inlet vacuum alarm. Paramark inspected the DPE pump and observed an oil leak from the DPE pump.
12-Dec-11	13:00	NA	NA	Off	Landmark and JHF onsite to remove the DPE pump for repair.
21-Dec-11	11:00	NA	NA	Off	Landmark onsite to collect sump water sample and inspect corrosion on elevator support backets.
20-Jan-12	8:00	NA	NA	Off/On	Landmark and JHF onsite to reinstall the DPE pump and restart the DPE system.
27-Jan-12	9:00	NA	NA	On	Landmark onsite to conduct monthly monitoring and sampling event. Landmark onsite to conduct monthly monitoring and sampling event as well as quarterly
16-Feb-12	9:00	NA	NA	On	groundwater sampling event. Landmark also changed oil at 17,520 hours.
16-Mar-12	11:00	NA	NA	On	Landmark onsite to conduct monthly monitoring and sampling event . Landmark also changed oil at 18,219 hours.
25-Mar-12	19:58	Y	Air Stripper High High Level	On/Off	
27-Mar-12	7:00	Y	Air Stripper High High Level	Off/On	Landmark onsite to clean the air stripper floats. System restarted.
17-Apr-12	10:25	NA	NA	On	Landmark onsite to conduct monthly monitoring and sampling event . Landmark also changed oil at 18,964 hours.
17-May-12	10:00	NA	NA	On	Landmark onsite to conduct monthly monitoring and sampling event as well as quarterly groundwater sampling event. Solenoid for DPE-3 faulty and taken off-line. Landmark also changed oil at 19,660 hours.
31-May-12	10:59	NA	NA	On	Landmark onsite and replaced solenoid bonnet for DPE-2 and DPE-3, and inner seal on DPE-1. Landmark also changed oil at 19,950 hours.

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

221 1st Avenue SW Rochester, Minnesota

Date	Approximate Time	Sensophone Call Received?	Alarm Condition	DPE System Status	Comments
14-Jun-12	10:17	NA	NA	On	Landmark onsite to conduct monthly monitoring and sampling event . Landmark also changed oil at 20,279 hours.
18-Jun-12	14:18	NA	NA	On	Landmark changed the DPE operational configuration from operating at DPE-1, DPE-2, DPE-3, and DPE-4 to operation of only DPE-3.
19-Jul-12	11:11	NA	NA	On	Landmark onsite to conduct monthly monitoring and sampling event . Conducted troubleshooting of MS#1 and MS#2 pressure drop. Replaced DPE#3 solenoid components. Landmark also changed oil at 21,119 hours.
25-Jul-12	NA	NA	NA	On	Landmark onsite to replace filters for MS#1 and MS#2; replace transfer pump stator; and clean flow meter.
23-Aug-12	7:30	NA	NA	On	Landmark onsite to conduct monthly monitoring and sampling event . Conducted troubleshooting of MS#1 and MS#2 pressure drop. Landmark also changed oil at 21,872 hours.
26-Sep-12	20:12	NA	NA	On	Landmark onsite to conduct monthly monitoring and sampling event as well as quarterly groundwater sampling event. Pressure drop issue determined to be clogged demister pad from MS#2. Landmark also changed oil at 22,695 hours.
26-Oct-12	8:55	NA	NA	On	Landmark onsite to conduct monthly monitoring and sampling event. Landmark also changed oil at ????? hours.
26-Oct-12	13:53	NA	NA	On	on at 1111 nous.
31-Oct-12	10:00	NA	NA	On	Landmark on site to remove demister pad from MS#2 and troubleshoot DPE system alarm. Transfer pump failed; therefore, system shut down temporarily to conduct rebound sampling of DPE emissions and groundwater concentrations.
		NA	NA NA	On On	
		NA	NA NA		Landmark onsite to conduct monthly monitoring and sampling event. Landmark turned DPE
26-Oct-12	6:00	NA	NA	On/Off	system off to conduct rebound test. DPE-3 solenoid valve rebuilt.
31-Oct-12	NA	NA	NA	Off	Landmark onsite to troubleshoot transfer pump. Landmark onsite to conduct quarterly groundwater sampling event and soil gas sampling
19-Dec-12	NA	NA	NA	Off	event.
21-Dec-12	NA	NA	NA	Off/On	Landmark onsite to restart the DPE system for rebound emissions sampling and conduct monthly monitoring and sampling event. Landmark also changed oil at 23,442 hours.
4-Jan-13	9:40	NA	NA	On	Landmark onsite to replace transfer pump stator, clean air stripper, and rebuild DPE-3 solenoid. Landmark also changed oil at 23,655 hours.
9-Jan-13 18-Jan-13	9:40	NA NA	NA NA	On On	Landmark onsite to replace transfer pump coupling and key.
23-Jan-13	8:00 13:40	NA NA	NA NA	On	Landmark onsite to repair transfer pump. DPE system switched from DPE-3 operation to operating on DPE-1, DPE-2, DPE-3, to DPE-
30-Jan-13	6:00	NA	NA	On	Landmark onsite to conduct monthly monitoring and sampling event.
5-Feb-13	7:26	Y	MS High Level		Restarted system remotely.
8-Feb-13	13:45	Υ	MS High Level	On/Off	
12-Feb-13	NA	NA	NA	Off/On	Landmark onsite to replace transfer pump.
26-Feb-13	NA	NA	NA	On	Landmark onsite to conduct quarterly groundwater sampling event and monthly DPE system
21-Mar-13	8:00	NA	NA	On	monitoring and sampling event. Landmark onsite to conduct monthly monitoring and sampling event.
4-Apr-13	NA	NA	NA	On/Off	DPE system shut down for rebound test.
23-May-13	16:00	NA	NA	Off/On	Landmark onsite to restart DPE system and conduct monthly monitoring and sampling event and quarterly groundwater sampling event. Rebuilt solenoids 2 and 4.
26-Jun-13	10:40	NA	NA	On	Landmark onsite to conduct monthly monitoring and sampling event.
26-Aug-13	17:30	NA	NA	On	Landmark onsite to conduct quarterly groundwater sampling event and monthly DPE system monitoring and sampling event. DPE system shut down.
10-Dec-13	13:30	NA	NA	Off	Landmark onsite to conduct quarterly groundwater sampling event. DPE system shut down.
18-Feb-14	10:30	NA	NA	Off	Landmark onsite to conduct quarterly groundwater sampling event . DPE system shut down . Landmark also conducted the semi-annual soil vapor monitoring.
20-May-14	10:00	NA	NA	Off	Landmark onsite to conduct quarterly groundwater sampling event. DPE system shut down.
21-Aug-14	9:30	NA	NA	Off	Landmark onsite to conduct quarterly groundwater sampling event . DPE system shut down . Landmark also conducted the semi-annual soil vapor monitoring.
19-Nov-14	8:40	NA	NA	Off	Landmark onsite to conduct quarterly groundwater sampling event. DPE system shut down.
25-Feb-15	14:45	NA	NA	Off	Landmark onsite to conduct quarterly groundwater sampling event. DPE system shut down. Landmark also conducted the semi-annual soil vapor monitoring.
3-Mar-15	3:20	NA	NA	Off	Landmark onsite to resample groundwater at MW-14, MW-15, and DPE-2 due to broken vials from February visit.
15-Jun-15	4:20	NA	NA	Off	Landmark onsite to conduct quarterly groundwater sampling event. DPE system shut down.
20-Jul-15	9:00	NA	NA	Off	Landmark and JHF onsite to remove the DPE pump for repair.

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
18-Aug-15	8:40	NA	NA	Off	Landmark onsite to conduct quarterly groundwater sampling event. DPE system shut down.
8-Sep-15	11:50	NA	NA	Off	Landmark onsite to conduct semi-annual soil vapor monitoring.
9-Sep-15	7:00	NA	NA	Off	Landmark & JHF onsite to reinstall DPE pump. JHF fixed the DPE pump and replaced the vacuum pump. Landmark replaced DPE system components. Replaced 5 of the 8 solenoid valves (#1, 2, 3, 4, & 6). Waiting on three additional solenoids for the 3 remaining repairs. Serviced water separator w/several gallons of muriatic acid. Removed significant sediment from water separator. Replaced the PVC well piping at all DPE wells.
12-Oct-15	11:30	NA	NA	Off	Landmark onsite to repair the remaining 3 solenoid valves (#5, 7, & 8). Maintenance check of DPE system done as well. Replaced transfer pump stator and MS#1 filter.
13-Oct-15	8:30	NA	NA	Off/On/Off	Landmark onsite to collect 6-hour air stripper air emissions and influent and effluent groundwater samples. System on while air emissions sample was collected.
12/14/2015 and 12/15/2015	11:00	NA	NA	Off/On	Landmark onsite to conduct quarterly groundwater sampling event. DPE system was powered back on. Venting system shutdown.
1/11/2016 and 1/12/2016	9:25	NA	NA	On	Landmark onsite to conduct quarterly groundwater sampling event, semi-annual soil vapor monitoring, collect 6-hour air stripper air emissions and influent and effluent groundwater samples. Drained oil in the DPE motor pump and put new oil in.
26-Jan-16	12:57	Υ	Air Stripper Lo Airflow	On/Off/On	Restarted system via remote access
20-Jan-10	19:57	Y	Air Stripper Lo Airflow	On/Off	
27-Jan-16	NA	NA	Air Stripper Lo Airflow	Off	Site visit to troubleshoot AS alarm condition. AS exhaust pressure is 0 and should be 8-12 inches WC. Looked in AS and holes are plugged with scale build up.
2/23/2016 and 2/24/2016	12:50	NA	NA	Off/On	Landmark onsite to conduct quarterly groundwater sampling event, semi-annual soil vapor monitoring, collect 6-hour air stripper air emissions and influent and effluent groundwater samples. Air stripper was taken apart and cleaned and rubber gasquets were replaced.
21-Mar-16	10:30	Y	Air Stripper High High Level & floor sensor alarm	Off/On	Site visit to troubleshoot AS alarm condition. Groundwater overflowed over the air stripper and caused the basement to flood. Cleaned up the basement and cleaned the air stripper floats. Wanted to dump muriatic acid into the air stripper to unplug and diminish scale build-up, but the MN Biobusiness building was locked and I didn't have keys to leave the building and come back. Turned system back on when I left.
30-Mar-16	9:00	NA	NA	On/Off/On	The air stripper overflowed onto the basement floor again (about 25 gallons of water) but the HHL air stripper alarm wasn't triggered. The floor sensor alarm wasn't triggered either because the water flowed away from the floor sensors based on the slope of the floor. The air stripper was plugged so we took the whole air stripper apart and cleaned off all the scale build-up with a garden hose, tools, and muriatic acid. Turned the system back on after the re-assembly of the AS. Collected 6-hour AS air emissions and influent and effluent groundwater samples.
20-Apr-16	9:15	NA	NA	On	Landmark onsite to collect 6-hour air stripper air emissions and influent and effluent groundwater samples. System on while air emissions sample was collected. Monthly maintainence checks were completed as well.
17-May-16	10:00	NA	Air Stripper High High Level & floor sensor alarm	Off/On	Landmark onsite to conduct quarterly groundwater sampling event, collect 6-hour air stripper air emissions and influent and effluent groundwater samples. DPE System was powered back on. Muriatic acid was dumped into the air stripper to eliminate any scaling and mineral build-up. The high-level and high-high level float on the air stripper malfunctioned so the system shut down. All of the air stripper floats were removed and cleaned. Venting System powered back on.
16-Jun-16	9:30	Y	Zone 2 Alarm	Off/On/Off	the floats were cleaned and the system was turned back on. The system ran for over an hour and the moisture seperator filled up and was not draining even though the transfer pump to the air stripper was running. Appears to be something with the moisture seperator pump and may need a new rubber strator. The moisture seperator transfer pump appeared to work when it wasn't fighting against the air stripper blower. Shut system down before leaving and will bring a new strator on next site visit.
20-Jun-16	9:00	NA	NA	Off/On/Off	Landmark onsite to fix moisture seperator issues. Old rubber strator was removed from the MS transfer pump and a new one was installed. System ran for an hour and we were still having issues with the MS tank emptying. Removed piping from the MS tank that connects to the transfer pump and it was very clogged with limestone build-up. Cleaned all of these parts and piping and the system appeared to work fine again.
23-Jun-16	8:45	NA	NA	On	Landmark onsite to collect 6-hour air stripper air emissions sample. Semi-annual soil vapor samples were collected as well. Monthly maintainence checks were completed as well. Had a meeting with the plumber and got the south venting system fan working again. The fan started right up after the plumber went up to check it out. The tubing that lead to the digital manometer had moisture in it so that was cleared out and the digital reading worked again. The plumber also modified the DPE and AS exhaust stacks in the alleyway so rain water wouldn't get in the piping.

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-Jun-16	9:00	NA	NA	On	Eric onsite and modified the plumbing piping so the MS transfer pump is pumping groundwater directly to the sanitary sewer instead of into the air stripper. The AS influent groundwater concentrations are well below discharge criteria and we've be having AS issues the past few months so the system is now modified to pump GW directly to the sanitary sewer.

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NA: Not Applicable. Y: Yes.

MASS REMOVAL FROM DPE EXHAUST

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

Monitorin	ng Period						Total VOCs			PCE	
Start Date	End Date	DPE Well(s) Operating	DPE Pump Hours	Hours Per Period	Total Flow Rate (scfm)	Concentration (ug/m³)	Pounds Per Period	Cumulative pounds	Concentration (ug/m³)	Pounds Per Period	Cumulative Pounds
	6/29/2009		0	0	0	0	0	0	0	0	0
6/29/2009 ³	8/15/2009 ¹	DPE-1	478.5	478.5	24.3	14,613,880	636.97	636.97	11,600,000	505.61	505.61
8/15/2009	9/4/2009 ²	DPE-1	957	478.5	36.1	3,795,092	245.74	882.71	3,630,000	235.05	740.66
9/4/2009		DPE-1	1428	471	36.1	3,795,092	241.89	1,124.60	3,630,000	231.37	972.02
	10/15/2009 ⁴	DPE-1	1899	471	31.6	494,779	27.60	1,152.21	396,000	22.09	994.12
10/16/2009 ⁵		All Wells	1899	231	48.9	608,840	25.78	1,177.99	571,000	24.18	1018.30
	11/17/2009 ⁵	All Wells	2361	231	48.9	453,479	19.20	1,197.19	381,000	16.13	1034.43
11/17/2009	12/17/2009 ⁵	All Wells	2960	599	48.9	12,510	1.37	1,198.56	6,790	0.75	1035.17
12/17/2009	1/14/2010 ⁵	All Wells	3568	608	48.9	11,403,200	1270.88	2,469.45	8,550,000	952.89	1988.07
1/14/2010	2/22/2010 ⁶	All Wells	4161	593	69.4	2,364,821	364.82	2,834.27	1,720,000	265.34	2253.41
2/22/2010	3/25/2010 ⁷	All Wells	4868	707	69.4	548	0.10	2,834.37	215,000	39.54	2292.96
3/25/2010	4/16/2010	All Wells	5308	440	77.9	331,284	42.57	2,876.93	282,000	36.23	2329.19
4/16/2010	5/12/2010	All Wells	5908	600	86.9	438,730	85.73	2,962.66	27,900	5.45	2334.64
5/12/2010	6/17/2010	All Wells	6768	860	55.6	50,553	9.06	2,971.72	689,000	123.50	2458.14
6/17/2010	7/26/2010	All Wells	7671	903	75.6	1,032,070	264.11	3,235.83	489,000	125.14	2583.28
7/26/2010	9/27/2010 ⁸	All Wells	8222	551	86.8	493,213	88.42	3,324.25	245,150	43.95	2627.23
9/27/2010	10/18/2010	All Wells	8662	440	77.4	246,881	31.52	3,355.77	1,300	0.17	2627.39
10/18/2010	12/22/2010	All Wells	9378	716	94.1	19,686	4.97	3,360.74	2,680	0.68	2628.07
12/22/2010	1/20/2011	All Wells	10034	656	88.0	46,334	10.03	3,370.77	5,040	1.09	2629.16
1/20/2011	2/28/2011	All Wells	10969	935	83.1	61,844	18.02	3,388.79	4,590	1.34	2630.50
2/28/2011	3/23/2011	All Wells	11277	308	64.8	21,690	1.62	3,390.41	7,340	0.55	2631.05
3/23/2011	4/22/2011	All Wells	11995	718	65.8	56,955	10.08	3,400.49	6,840	1.21	2632.26
4/22/2011	5/19/2011	All Wells	12645	650	61.3	29,665	4.43	3,404.92	6,270	0.94	2633.19
5/19/2011	6/16/2011	All Wells	13314	669	56.4	25,270	3.57	3,408.49	668	0.09	2633.29
6/16/2011	7/25/2011	All Wells	14169	855	59.5	8,991	1.71	3,410.20	308	0.06	2633.35
7/25/2011	8/28/2011	All Wells	14962	793	68.7	8,866	1.81	3,412.01	0	0.00	2633.35
8/28/2011	9/29/2011	DPE-1, 2, 3, & 4	15722	760	59.9	8,324	1.42	3,413.44	3,420	0.58	2633.93
9/29/2011	10/27/2011	DPE-1, 2, 3, & 4	16013	291	52.3	106,710	6.09	3,419.52	180	0.01	2633.94
10/27/2011	11/21/2011	DPE-1, 2, 3, & 4	16619	606	57.6	11,328	1.48	3,421.01	22,100	2.89	2636.83
11/21/2011	1/27/2012	DPE-1, 2, 3, & 4	17042	423	49.1	268,469	20.90	3,441.91	29,100	2.27	2639.10
1/27/2012	2/16//2012	DPE-1, 2, 3, & 4	17520	478	39.9	85,733	6.13	3,448.04	4,440	0.32	2639.41
2/16/2012	3/16/2012	DPE-1, 2, 3, & 4	18219	699	34.0	59,394	5.29	3,453.33	0	0.00	2639.41
3/16/2012	4/17/2012	DPE-1, 2, 3, & 4	18964	745	29.2	71,800	5.86	3,459.18	20,600	1.68	2641.09
4/17/2012	5/17/2012	DPE-1, 2, 3, & 4	19660	696	32.3	50,874	4.29	3,463.47	25,200	2.12	2643.22
5/17/2012	6/14/2012	DPE-1, 2, 3, & 4	20279	619	38.5	41,142	3.68	3,467.15	11,200	1.00	2644.22

MASS REMOVAL FROM DPE EXHAUST

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

Monitorii	ng Period						Total VOCs			PCE	
Start Date	End Date	DPE Well(s) Operating	DPE Pump Hours		Total Flow Rate (scfm)	Concentration (ug/m³)	Pounds Per Period	Cumulative pounds	Concentration (ug/m³)	Pounds Per Period	Cumulative Pounds
6/14/2012	7/19/2012	DPE-3	21119	840	49.2	173,300	26.85	3,493.99	113,000	17.51	2661.72
7/19/2012	8/23/2012	DPE-3	21872	753	33.3	54,700	5.14	3,499.13	27,800	2.61	2664.34
8/23/2012	9/26/2012	DPE-3	22695	823	45.9	100,659	14.25	3,513.39	45,800	6.49	2670.82
9/26/2012	10/26/2012 ⁹	DPE-3	23397	702	40.1	1,099,548	116.03	3,629.42	664,000	70.07	2740.89
10/26/2012	12/21/2012	DPE-3	23442	45	48.1	447,600	3.63	3,633.05	358,000	2.90	2743.80
12/21/2012	1/30/2013	DPE-1, 2, 3, & 4	24138	696	38.1	475,000	47.22	3,680.26	348,000	34.59	2778.39
1/30/2013	2/26/2013	DPE-1, 2, 3, & 4	24625	487	44.1	9,017	0.73	3,680.99	1,600	0.13	2778.52
2/26/2013	3/21/2013	DPE-1, 2, 3, & 4	25176	551	39.1	51,872	4.19	3,685.18	17,500	1.41	2779.93
3/21/2013	5/23/2013	DPE-1, 2, 3, & 4	25691	515	100.0	56,690	10.94	3,696.12	43,200	8.34	2788.27
5/23/2013	6/26/2013	DPE-1, 2, 3, & 4	26501	810	92.5	215	0.06	3,696.18	102	0.03	2788.30
6/26/2013	8/26/2013	DPE-1, 2, 3, & 4	27889	1388	80.6	3,154	1.32	3,697.51	122	0.05	2788.35
10/12/2015	10/12/2015	All Wells	27889	0	NA	NA	NA	3,697.51	NA	NA	2788.35
10/13/2015	10/13/2015	All Wells	27898	9	48.8	5,958	0.01	3,697.52	61	0.00	2788.35
12/15/2015	1/12/2016	All Wells	28591	693	64.4	13,567	2.27	3,699.79	7,200	1.20	2789.55
1/12/2016	2/24/2016	All Wells	29503	912	64.4	15,685	3.45	3,703.24	8,400	1.85	2791.40
2/24/2016	3/30/2016	All Wells	30254	751	65.6	26,073	4.82	3,708.05	19,000	3.51	2794.91
3/30/2016	4/20/2016	All Wells	30758	504	64.4	3,139	0.38	3,708.44	6	0.00	2794.91
4/20/2016	5/17/2016	All Wells	31395	637	66.3	3,041	0.48	3,708.92	18	0.00	2794.92
5/17/2016	6/23/2016 ¹⁰	All Wells	32275	880	65.02	2,699	0.58	3,709.50	230	0.05	2794.96

Notes:

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

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

Sample ID	DPE-EXHAUST	DPE-EXHAUST	DPE-EXHAUST	DPE-EXHAUST	DPE-EXHAUST	DPE-EXHAUST	DPE-EXHAUST	DPE-EXHAUST 2104	DPE-EXHAUST 1068	DPE-EXHAUST 0961	DPE-EXHAUST 0836	DPE-EXHAUST 1051	DPE-EXHAUST 0531	DPE-EXHAUST 0757	DPE-EXHAUST 1264	DPE-EXHAUST 0795	DPE-EXHAUST 2048
Wells Operating	All DPE Wells	All DPE Wells	All DPE Wells	All DPE Wells	All DPE Wells	All DPE Wells	All DPE Wells	DPE-1,2,3 & 4	DPE-1,2,3 & 4	DPE-1,2,3 & 4	DPE-1,2,3 & 4	DPE-1,2,3 & 4	DPE-1,2,3 & 4	DPE3	DPE3	DPE3	2046 DPE-3
Sample Collection Method	6-hr Composite	6-hr Composite	6-hr Composite	6-hr Composite	6-hr Composite	6-hr Composite	6-hr Composite	6-hr Composite	6-hr Composite	6-hr Composite	6-hr Composite	6-hr Composite	6-hr Composite	6-hr Composite	6-hr Composite	6-hr Composite	6-hr Composite
Collected Date	6/23/2016	5/17/2016	4/20/2016	3/30/2016	2/24/2016	1/12/2016	10/13/2015	8/26/2013	6/26/2013	5/23/2013	3/21/2013	2/25/2013	1/30/2013	12/21/2012	10/26/2012	9/26/2012	8/23/2012
1.1.1-Trichloroethane	<2.7	<2.7	<2.7	10	5.3	<8.1	<2.7	4.3	<3.0	5/23/2013 <47.1	<107	<52.1	<6400	<1380	<383	<298	<478
1,1,2,2-Tetrachloroethane	<3.4	<3.4	<3.4	<3.4	<3.4	<10	<3.4	<1.5	<1.9	<29.6	<67.0	<32.7	<4020	<867	<241	<188	<300
1,1,2-Trichloroethane	<2.7	<2.7	<2.7	<2.7	<2.7	<8.1	<2.7	<1.2	<1.5	<23.3	<52.8	<25.8	<3170	<683	<190	<148	<237
1,1,2-Trichlorotrifluoroethane	1500	2100	1900	5300	5600	4500	5400	2820	98.2	13100	33300	7040	127000	89600	433000	34800	26900
1,1-Dichloroethane 1,1-Dichloroethene	<2.0 <2.0	<2.0 <2.0	<2.0 <2.0	<2.0 <2.0	<2.0 3.4	<6.0 <6.0	<2.0 3.3	<1.7 <1.7	<2.2 <2.2	<34.8 <34.3	<78.8 <77.8	<38.5 <38.0	<4730 <4670	<1020 <1010	<283 <280	<220 <218	<353 <349
1,2,4-Trichlorobenzene	<3.7	<3.7	<3.7	<3.7	<3.7	<11	5.7	<3.2	<4.1	<64.0	<145	<70.8	<8700	<1870	<521	<406	<650
1,2,4-Trimethylbenzene	<1.0	<1.0	<1.0	<1.0	<1.0	<3.0	5.8	<2.1	<2.7	<42.4	<96.0	<46.9	<5760	<1240	<345	<269	<430
1,2-Dibromoethane (EDB)	<3.8	<3.8	<3.8	<3.8	<3.8	<11	<3.8	<3.3	<4.2	<66.1	<150	<73.2	<8990	<1940	<538	<419	<671
1,2-Dichlorobenzene	<3.0	<3.0	<3.0	<3.0	<3.0	<9.0	<3.0	<2.6	<3.3	<51.7	<117	<57.2	<7030	<1510	<421	<328	<525
1,2-Dichloroethane 1,2-Dichloropropane	<2.0 <2.3	<2.0 <2.3	<2.0 <2.3	<2.0 <2.3	<2.0 <2.3	<6.0 <6.9	<2.0 <2.3	<0.87 <2.0	<1.1 <2.5	<17.4 <39.9	<39.4 <90.3	<19.2 <44.1	<2360 <5420	<509 <1170	<142 <324	<110 <253	<176 <405
1,3,5-Trimethylbenzene	<1.0	<1.0	<1.0	<1.0	<1.0	<3.0	1.3	<2.0	<2.7	<42.4	<96.0	<46.9	<5760	<1240	<345	<269	<430
1,3-Butadiene	<1.1	<1.1	<1.1	<1.1	<1.1	<3.3	<1.1	<0.95	<1.2	<19.1	<43.2	<21.1	<2590	<559	<155	<121	<194
1,3-Dichlorobenzene	<3.0	<3.0	<3.0	<3.0	<3.0	<9.0	<3.0	<2.6	<3.3	<51.7	<117	<57.2	<7030	<1510	<421	<328	<525
1,4-Dichlorobenzene	<3.0	<3.0	<3.0	<3.0	<3.0	<9.0	<3.0	<2.6	<3.3	<51.7	<117	<57.2	<7030	<1510	<421	<328	<525
2-Butanone (MEK) 2-Hexanone	2.1 <2.0	1.7 <2.0	16 <2.0	6.9 <2.0	10 <2.0	17 <6.0	46 2.9	14.2 <1.8	<1.6 <2.2	<25.4 <35.2	<57.6 <79.7	<28.1 <38.9	<3460 <4780	<745 <1030	<207 <286	<161 <223	<258 <357
2-Propanol	<2.0 460	<2.0 540	<2.0 710	920	₹2.0 790	380	2.9 86	<1.0	1.6	38.6	126	<36.9	<4780	<621	218	<134	<357
4-Ethyltoluene	<2.5	<2.5	<2.5	<2.5	<2.5	<7.5	<2.5	<2.1	<2.7	<42.4	<96.0	<46.9	<5760	<1240	<345	<269	<430
4-Methyl-2-pentanone (MIBK)	<2.0	<2.0	<2.0	<2.0	<2.0	<6.0	3.1	<1.8	<2.2	<35.2	<79.7	<38.9	<4780	<1030	<286	<223	<357
Acetone	43	29	58	75	94	46	120	56.6	2.2	53.1	71.2	48.0	<2770	<596	<166	169	<207
Benzene Benzelehleride	<0.64 <2.6	0.79	<0.64 <2.6	1.1 <2.6	1.2 <2.6	<1.9 <7.8	2.1 <2.6	<0.69 <2.2	<0.87	<13.8 <44.5	<31.2 <101	18.0 <49.2	<1870 <6050	<404 <1300	<112 <362	<87.4 <282	<140 <452
Benzyl chloride Bromodichloromethane	<2.6 <3.4	<2.6 <3.4	<2.6 <3.4	<2.6 <3.4	<2.6 <3.4	<7.8 <10	<2.6 <3.4	<2.2 <2.9	<2.8 <3.7	<44.5 <57.7	<101	<49.2 <63.8	<6050 <7840	<1300	<362 <469	<282 <366	<452 <585
Bromoform	<5.2	<5.2	<5.2	<5.2	<5.2	<16	<5.2	<4.5	<5.6	<89.0	<202	<98.5	<12100	<2610	<725	<564	<904
Bromomethane	<1.9	<1.9	<1.9	<1.9	<1.9	<5.7	<1.9	<1.7	<2.1	<33.5	<75.9	<37.1	<4550	<981	<273	<212	<340
Carbon disulfide	<1.6	<1.6	<1.6	<1.6	<1.6	<4.8	<1.6	<1.3	<1.7	<26.7	<60.5	<29.5	<3630	<782	<217	<169	<271
Carbon tetrachloride	<3.1	<3.1	<3.1	<3.1	<3.1	<9.3	<3.1	<1.4	<1.7	<27.1	<61.5	<30.0	<3690	<795	<221	<172	<275
Chlorobenzene Chloroethane	<2.3 <1.3	<2.3 <1.3	<2.3 <1.3	<2.3 <1.3	<2.3 <1.3	<6.9 <3.9	<2.3 <1.3	<2.0 <1.1	<2.5 <1.5	<39.9 <22.9	<90.3 <51.9	<44.1 <25.3	<5420 <3110	<1170 <670	<324 <186	<253 <145	<405 <232
Chloroform	<2.4	<2.4	<2.4	3	<2.4	<7.2	<2.4	2.5	<2.7	<42.0	<95.1	<46.4	<5710	<1230	<342	<266	<426
Chloromethane	1.2	1.1	1.4	1.2	1.5	<3.0	1.2	1.8	<1.1	<17.8	<40.3	<19.7	<2420	<521	<145	<113	<181
cis-1,2-Dichloroethene	<2.0	<2.0	<2.0	20	5.7	9.6	2.8	7.5	<2.2	93.9	84.4	<38.0	<4670	<1010	370	<218	<349
cis-1,3-Dichloropropene	<2.3 <1.7	<2.3	<2.3 <1.7	<2.3	<2.3 <1.7	<6.9	<2.3 <1.7	<2.0	<2.5 <1.9	<39.0	<88.4	<43.1 104	<5300	<1140 <869	<318	<247	<396
Cyclohexane Dibromochloromethane	<4.3	<1.7 <4.3	<4.3	<1.7 <4.3	<4.3	<5.1 <13	<4.3	<1.5 <3.7	<4.7	<29.7 <73.4	<67.2 <166	<81.1	<4030 <9970	<2150	<242 <597	<188 <465	<301 <745
Dichlorodifluoromethane	<2.5	<2.5	12	<2.5	3.4	<7.5	<2.5	4.2	<2.7	<42.8	<97.0	<47.4	<5820	<1250	<349	<271	<435
Dichlorotetrafluoroethane	<3.5	<3.5	<3.5	<3.5	<3.5	<10	<3.5	<3.0	<3.8	<60.2	<136	<66.6	<8180	<1760	<490	<382	<611
Ethanol	450	340	420	670	690	1400	170	98.1	11.1	123	507	105	<2190	<472	1960	18700	<164
Ethyl acetate	<1.8 <0.87	<1.8	<1.8	<1.8	<1.8	<5.4	<1.8	<1.5	<2.0	<31.0	<70.1	<34.2	<4210	<906	<252	1190	<314 <379
Ethylbenzene Hexachloro-1,3-butadiene	<0.87 <5.3	<0.87 <5.3	<0.87 <5.3	1.1 <5.3	7.2 <5.3	<2.6 <16	3.5 <5.3	<1.9 <4.7	<2.4 <5.9	<37.3 <93.3	<84.5 <211	<41.3 <103	<5070 <12700	<1090 <2730	<304 <759	<237 <591	<379 <947
m&p-Xylene	1.8	1.9	2.1	4	28	6	13	<3.7	<4.7	<74.6	<169	<82.5	<10100	<2190	<608	<473	<758
Methylene Chloride	6.2	2.5	5.3	4.2	2.9	<5.1	2.6	5.3	<1.9	<30.1	80	45.6	<4090	<882	<245	<191	<306
Methyl-tert-butyl ether	<1.8	<1.8	<1.8	<1.8	<1.8	<5.4	<1.8	<1.5	<2.0	<31.0	<70.1	<34.2	<4210	<906	<252	<196	<314
Naphthalene	<2.6	<2.6	<2.6	<2.6	<2.6	<7.8 <6.0	4.8	<2.3	<2.9	<45.4 <35.2	<103 <79.7	<50.2 <38.9	<6170 <4780	<1330	<369	<288	<461 <357
n-Heptane n-Hexane	<2.0 <1.8	<2.0 <1.8	<2.0 2.3	<2.0 <1.8	<2.0 1.9	<6.0 <5.4	<2.0 2.9	<1.8 6.7	<2.2 <1.9	<35.2 <30.5	9.7<br 89.2	<38.9 56.2	<4780 <4150	<1030 <894	<286 <249	<223 <194	<357 <310
o-Xylene	<0.87	<0.87	0.9	1.5	8.1	<2.6	5.4	<1.9	<2.4	<37.3	<84.5	<41.3	<5070	<1090	<304	<237	<379
Propylene	<0.86	<0.86	<0.86	<0.86	<0.86	<2.6	<0.86	<0.74	<0.94	<14.8	<33.6	<16.4	<2020	<435	<121	<94.1	<151
Styrene	<2.1	<2.1	<2.1	<2.1	<2.1	<6.3	<2.1	<1.8	<2.3	<36.9	<83.6	<40.8	<5010	<1080	<300	<234	<374
Tetrachloroethene	230	18	5.8	19000	8400	7200	61	122	102	43200	17500	1600	348000	358000	664000	45800	27800
Tetrahydrofuran Toluene	1.9 2.8	2.3 3.3	3.6	2.3	6.7	<4.5 2.9	1.6 13	2.9 5.7	<1.6 <2.1	<25.4 37.4	<57.6 114	<28.1 54.7	<3460 <4440	<745 <956	<207 <266	<161 <207	<258 <331
trans-1,2-Dichloroethene	<2.0	<2.0	<2.0	<2.0	<2.0	<6.0	<2.0	5.7 <1.7	<2.1	<34.3	<77.8	<38.0	<4440 <4670	<1010	<280	<207	<349
trans-1,3-Dichloropropene	<2.3	<2.3	<2.3	<2.3	<2.3	<6.9	<2.3	<2.0	<2.5	<39.0	<88.4	<43.1	<5300	<1140	<318	<247	<396
Trichloroethene	<1.1	<1.1	<1.1	13	5	5.6	<1.1	1.7	<1.5	43.7	<52.8	<25.8	<3170	<683	<190	<148	<237
Trichlorofluoromethane	<2.8	<2.8	<2.8	<2.8	<2.8	<8.4	<2.8	<2.4	<3.1	<48.3	<109	<53.5	<6570	<1420	<394	<306	<491
Vinyl ablarida	<1.8	<1.8	<1.8	<1.8	<1.8	<5.4	<1.8	<1.5	<1.9	<30.4	<68.8	<33.6	<4130	<889	<247	<192	<308
Vinyl chloride TOTAL VOCs	<0.51 2699	<0.51 3040.59	<0.51 3139.4	<0.51 26073.30	<0.51 15685.30	<1.5 13567.1	<0.51 5,958	<0.55 3,154	<0.70 215	<11.0 56,690	<25.0 51,872	<12.2 9,017	<1500 475,000	<323 447,600	<89.7 1,099,548	<69.9 100,659	<112 54,700
Rold: Parameter detected above the reporting limit	2099	3040.33	3133.4	20073.30	13003.30	13307.1	3,330	J, 134	Z 1 J	30,030	31,012	3,017	47 3,000	441,000	1,033,340	100,009	34,700

TOTAL VOCS

Bold: Parameter detected above the reporting limit.

NA: Not analyzed

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

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

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

Sample ID	DPE-EXHAUST 1660	DPE-EXHAUST 0558	DPE-EXHAUST 0361	DPE-EXHAUST 1071	DPE-EXHAUST 1637	DPE-EXHAUST 1289	DPE-EXHAUST 1250	DPE-EXHAUST 1627	DPE-EXHAUST 1105251-01	DPE-EXHAUST 1214	DPE-EXHAUST 0260	DPE-EXHAUST 1571	DPE EXHAUST 0727	DPE EXHAUST 0416	DPE EXHAUST 0514	DPE EXHAUST 1186	DPE EXHAUST 0798
Wells Operating	DPE-3	DPE-1,2,3 & 4	DPE-1,2,3 & 4	DPE-1,2,3 & 4	DPE-1,2,3 & 4	DPE-1,2,3 & 4	DPE-1,2,3 & 4	DPE-1,2,3 & 4	DPE-1,2,3 & 4	DPE-1,2,3 & 4	All DPE Wells	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	6-hr Composite	6-hr Composite	6-hr Composite	6-hr Composite	6-hr Composite	6-hr Composite	6-hr Composite	6-hr Composite	6-hr Composite	6-hr Composite	6-hr Composite
Collected Date	7/19/2012	6/14/2012	5/17/2012	4/17/2012	3/16/2012	2/16/2012	1/27/2012	11/21/2011	10/27/2011	9/29/2011	8/28/2011	7/25/2011	6/16/2011	5/19/2011	4/22/2011	3/23/2011	2/28/2011
1,1,1-Trichloroethane	<1100	<341	13.1	<357	<682	<567	51	<260	<14	<33.9	<41.4	<39.6	<33.9	<280	<36.5	<39.6	<140
1,1,2,2-Tetrachloroethane	<692	<214	<1.2	<224	<429	<360	<1.3	<165	<17	<21.5	<26.2	<25.1	<21.5	<178	<46.5	<50.4	<88.8
1,1,2-Trichloroethane	<546	<169	<0.92	<177	<338	<283	<1.1	<130	<14	<16.9	<20.7	<19.8	<16.9	<140	<36.5	<39.6	<70.0
1,1,2-Trichlorotrifluoroethane 1.1-Dichloroethane	60300 <813	29200 <252	25500 <1.4	51200 <264	58500 <504	60400 <422	56,100 <1.6	244,000 <194	11,000 <10	103,000 <25.3	8,150 <30.8	8,250 <29.5	8,050 <25.3	19,000 <209	22,600 <27.2	49,100 <29.5	17,100 <104
1,1-Dichloroethene	<804	<249	<1.4	<260	<498	<417	<1.6	<192	<10	<24.9	<30.5	<29.2	<24.9	<206	<26.9	<29.2	<103
1,2,4-Trichlorobenzene	<1500	<304	<1.7	<318	<608	<510	<1.9	<234	<18	<30.5	<37.2	<35.6	<30.5	<252	<32.9	<35.6	<126
1,2,4-Trimethylbenzene	<991	<307	2.2	<321	<614	<515	5.6	<237	<4.9	50.5	<37.6	<36.0	<30.8	<254	<33.2	<36.0	<127
1,2-Dibromoethane (EDB)	<1550	<479	<2.6	<502	<958	<824	<3.1	<379	<19	<49.3	<60.2 <45.1	<57.6	<49.3	<407	<53.1	<57.6	<204
1,2-Dichlorobenzene 1,2-Dichloroethane	<1210 <407	<375 <126	<2.0 <0.69	<392 <132	<750 <252	<618 <211	<2.3 <0.79	<284 <97.1	<15 <10	<37.0 <12.6	<45.1 <15.4	<43.2 <14.8	<37.0 <12.6	<305 <104	<39.8 <27.2	<43.2 <29.5	<153 <52.2
1,2-Dichloropropane	<932	<289	<1.6	<302	<578	<484	<1.8	<223	<12	<29.0	<35.3	<33.8	<29.0	<239	<31.2	<33.8	<120
1,3,5-Trimethylbenzene	<991	<307	<1.7	<321	<614	<515	<1.9	<237	<4.9	<30.8	<37.6	<36.0	<30.8	<254	<33.2	<36.0	<127
1,3-Butadiene	<446	<138	<0.76	<145	<276	<232	<0.86	<107	<5.5	<13.9	<16.9	<16.2	<13.9	<114	<14.9	<16.2	<57.2
1,3-Dichlorobenzene	<1210	<375 <375	<2.0	<392	<750	<618 <618	<2.3	<284 <284	<15	<37.0 <37.0	<45.1	<43.2	<37.0	<305	<39.8	<43.2	<153
1,4-Dichlorobenzene 2-Butanone (MEK)	<1210 <595	<375 <184	<2.0 <1.0	<392 <193	<750 <369	<618 <309	5.4 5.2	<284 343	<15 11	<37.0 80.1	<45.1 <22.6	<43.2 27.1	<37.0 <18.5	<305 <153	<39.8 <19.9	<43.2 <21.6	<153 <76.3
2-Hexanone	<823	<255	<1.4	<267	<510	<428	<1.6	<197	<10	<25.6	<31.2	<29.9	<25.6	<211	<27.6	<29.9	<106
2-Propanol	<496	<768	<4.2	<804	<1540	<1290	17.5	<592	16	<77.0	<94.0	<90.0	<77.0	<636	<83.0	<90.0	<318
4-Ethyltoluene	<992	<307	<1.7	<322	<614	<1290	<4.8	<592	<12	<77.0	<94.0	<90.0	<77.0	<636	<83.0	<90.0	<318
4-Methyl-2-pentanone (MIBK)	<823	<255	<1.4	<267	<510	<428	<1.6	<197	<10	<25.6	<31.2	<29.9	<25.6	<211	<27.6	<29.9	<106
Acetone Benzene	<476 <322	<147 <99.8	16.6 <0.55	<154 <105	<295 <200	<247 <167	43.6 1.4	693 <77.0	25 <3.2	58.3 <10.0	53.1 <12.2	83.1 <11.7	72.5 <10.0	<122 <82.7	88.4 <21.6	25.4 <23.4	<61.1 <41.3
Benzyl chloride	<1040	<323	<1.8	<338	<645	<541	<2.0	<249	<13	<32.3	<39.5	<37.8	<32.3	<267	<34.9	<37.8	<134
Bromodichloromethane	<1350	<418	<2.3	<437	<836	<721	<2.7	<332	<17	<43.1	<52.6	<50.4	<43.1	<356	<46.5	<50.4	<178
Bromoform	<2080	<645	<3.5	<675	<1290	<1080	<4.0	<497	<26	<64.7	<79.0	<75.6	<64.7	<534	<69.7	<75.6	<267
Bromomethane	<784	<243	<1.3	<254	<485	<407	<1.5	<187	<9.5	<24.3	<29.7	<28.4	<24.3	<201	<26.2	<28.4	<100
Carbon disulfide	<625	<194	<1.1	<203	<387	<325	<1.2	<149	<8.0	<19.4	<23.7	<22.7	<19.4	<160	<20.9	<22.7	<80.1
Carbon tetrachloride Chlorobenzene	<635 <932	<197 <289	<1.1 <1.6	<206 <302	<393 <578	<330 <484	<1.2 <1.8	<152 <223	<16 <12	<19.7 <29.0	<24.1 <35.3	<23.0 <33.8	<19.7 <29.0	<163 <239	<43.2 <31.2	<46.8 <33.8	<81.4 <120
Chloroethane	<536	<166	<0.91	<174	<332	<278	<1.0	<128	<6.5	<16.6	<20.3	<19.4	<16.6	<137	<17.9	<19.4	<68.7
Chloroform	<982	<304	<1.7	<318	<608	<510	10.3	<234	<12	<30.5	<37.2	<35.6	<30.5	<252	<32.9	<35.6	<126
Chloromethane	<417	<129	<0.71	<135	<258	<216	<0.81	<99.5	<5.0	<12.9	<15.8	<15.1	<12.9	<107	<13.9	<15.1	<53.4
cis-1,2-Dichloroethene	<804	<249	34.8	<260	<498	<417	80	262	<10	49.1	<30.5	<29.2	<24.9	<206	<26.9	<29.2	<103
cis-1,3-Dichloropropene Cyclohexane	<913 <694	<283 <209	<1.5 <1.1	<296 <219	<565 <418	<474 <350	<1.8 <1.3	<218 <161	<12 <8.5	<28.3 <20.9	<34.6 <25.6	<33.1 <24.5	<28.3 <20.9	<234 <173	<30.5 <22.6	<33.1 <24.5	<117 <86.5
Dibromochloromethane	<1720	<531	<2.9	<556	<1060	<876	<3.3	<403	<22	<52.4	<63.9	<61.2	<52.4	<432	<56.4	<61.2	<216
Dichlorodifluoromethane	<1000	<310	1.8	<325	<621	<515	<1.9	<237	<12	<30.8	<37.6	<36.0	<30.8	<254	<33.2	<36.0	<127
Dichlorotetrafluoroethane	<1410	<436	<2.4	<457	<872	<721	<2.7	<332	<18	<43.1	<52.6	<50.4	<43.1	<356	<46.5	<50.4	<178
Ethanol	<377	742	51.8	<122	894	<979	249	777	81	<58.5	121	198	201	<483	137	139	<242
Ethyl acetate Ethylbenzene	<724 <873	<224 <270	37.6 <1.5	<235 <283	<449 <541	<376 <453	<1.4 3.1	<173 <208	<9.0 <4.4	<22.5 <27.1	<27.4 <33.1	<26.3 <31.7	<22.5 <27.1	<186 <224	<24.2 <29.2	<26.3 <31.7	<92.9 <112
Hexachloro-1,3-butadiene	<2180	<676	<3.7	<708	<1350	<1130	<4.2	<521	<26	<67.8	<82.7	<79.2	<67.8	<560	<73.0	<79.2	<280
m&p-Xylene	<1750	<541	<3.0	<566	<1080	<907	3.9	<417	<8.5	<54.2	<66.2	<63.4	<54.2	<448	<58.4	<63.4	<224
Methylene Chloride	<704	<218	<1.2	<228	<436	1390	<1.4	<168	15	<21.9	<26.7	<25.6	<21.9	<181	<23.6	310	<90.3
Methyl-tert-butyl ether	<724	<224	<1.2	<235	<449	<376	<1.4	<173	<9.0	<22.5	<27.4	<26.3	<22.5	<186	<24.2	<26.3	<92.9
Naphthalene n-Heptane	<1060 <823	<329 <255	1.8 <1.4	<344 <267	<657 <510	<1390 <428	<5.2 2.9	<639 <197	<13 <10	<83.2 <25.6	<102 <31.2	<97.2 <29.9	<83.2 <25.6	<687 <211	<89.6 <27.6	<97.2 <29.9	<343 <106
n-Hexane	<714	<221	1.6	<232	<442	585	6.9	<170	<9.0	<22.2	<27.1	<25.9	<22.2	<183	<23.9	40.9	<91.6
o-Xylene	<873	<270	<1.5	<283	<541	<453	2.3	<208	<4.4	<27.1	<33.1	<31.7	<27.1	<224	<29.2	<31.7	<112
Propylene	<347	<108	<0.59	<113	<215	<180	<0.67	<82.9	<4.3	<10.8	<13.2	<12.6	<10.8	<89.0	<11.6	<12.6	<44.5
Styrene	<863	<267	<1.5	<280	<535	<448	<1.7	<206	<10	<26.8	<32.7	<31.3	<26.8	<221	<28.9	<31.3	<111
Tetrachloroethene	113000	11200	25200	20600	<423	4440 <309	29100	22100	180	3420	<25.9	308	668	6,270	6,840	7,340	4,590
Tetrahydrofuran Toluene	<595 <764	<184 <237	<1.0 3.1	<193 <248	<369 <473	<309 <397	<1.2 7.5	<142 <182	<7.5 <3.8	<18.5 29.6	<22.6 <29.0	<21.6 <27.7	<18.5 <23.7	<153 <196	<19.9 <25.6	<21.6 <27.7	<76.3 <97.9
trans-1,2-Dichloroethene	<804	<249	<1.4	<260	<498	<417	<1.6	<192	<10	<24.9	<30.5	<29.2	<24.9	<206	<26.9	<29.2	<103
trans-1,3-Dichloropropene	<913	<283	<1.5	<296	<565	<474	<1.8	<218	<12	<28.3	<34.6	<33.1	<28.3	<234	<30.5	<33.1	<117
Trichloroethene	<546	<169	9.6	<177	<338	<283	36.9	294	<14	22.2	<20.7	<19.8	<16.9	<140	<36.5	<39.6	<70.0
Trichlorofluoromethane	<1130	<350	<1.9	<367	<700	<567	<2.1	<260	<14	<33.9	<41.4	<39.6	<33.9	<280	<36.5	<39.6	<140
Vinyl oblorida	<710 <258	<218	<1.2	<228 <83.6	<436	<366 <134	<1.4 <0.50	<168 <61.6	<9.0 <6.5	<21.9	<26.7	<25.6	<21.9	<181 <66.1	<23.6 <17.3	<25.6 <18.7	<90.3 <33.1
Vinyl chloride TOTAL VOCs	<258 173,300	<79.9 41,142	<0.44 50,874	<83.6 71,800	<160 59,394	<134 85,733	<0.50 268,469	<61.6 11,328	<6.5 106,710	<8.0 8,324	<9.8 8,866	<9.4 8,991	<8.0 25,270	<66.1 29,665	<17.3 56,955	<18.7 21,690	<33.1 61,844
Rold: Parameter detected above the reporting limit	113,300	71,174	30,014	11,000	JJ,JJ4	00,100	200,403	11,320	100,710	0,324	0,000	0,331	23,210	23,003	30,333	41,030	01,044

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

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

	DPE EXHAUST	DPE EXHAUST	DPE EXHAUST	DPE EXHAUST	DPE EXHAUST	DPE EXHAUST	DPE EXHAUST 764	DPE EXHAUST	DPE EXHAUST	DPE EXHAUST	DPE OUTLET	DPE-OUTLET	DPE-OUTLET	DPE-	DPE-EFFLUENT	DPE -
Sample ID	1513	0224	0965	0096	764	1248	DI E EXTIAGOT 704	726	1316	1037	1042	0903	1254	EFFLUENT 519	253	EFFLUENT 0680
Wells Operating	All DPE Wells	All DPE Wells	All DPE Wells	All DPE Wells	All DPE Wells	All DPE Wells	All DPE Wells	All DPE Wells	All DPE Wells	All DPE Wells	All DPE Wells	All DPE Wells	All DPE Wells	All DPE Wells	DPE-1	DPE-1
Sample Collection Method	6-hr Composite	6-hr Composite	6-hr Composite	1/2-hr Composite ¹	6-hr Composite	6-hr Composite	6-hr Composite	6-hr Composite	6-hr Composite	6-hr Composite	6-hr Composite	6-hr Composite	6-hr Composite	6-hr	Grab	Grab
Collected Date	1/20/2011	12/23/2010	10/18/2010	9/27/2010	7/26/2010	6/17/2010	5/12/2010	4/16/2010	3/25/2010	2/22/2010	1/14/2010	12/17/2009	11/17/2009	Composite 10/16/2009	10/15/2009	9/4/2009
1.1.1-Trichloroethane	20.8	45.6	<146	<2.3	<79.2	<760	12.9	ND	30.7	61	ND	23.9	ND	81.7	4.2	127
1,1,2,2-Tetrachloroethane	<2.2	<46.5	<186	<3.0	<101	<968	<2.7	ND	<2.5	ND	ND	ND	ND	<2.2	<2.1	<2.1
1,1,2-Trichloroethane	<1.7	<36.5	<146	<2.3	<79.2	<760	<2.1	ND	<2.0	ND	ND	ND	ND	<1.7	<1.6	<1.6
1,1,2-Trichlorotrifluoroethane	56,200	42,700	16,300	9.2	3,720	342,000	21,900	153,000	115,000	644,000	2,720,000	4,440	72,100	172	97,900	153,000
1,1-Dichloroethane 1,1-Dichloroethene	<1.3 <1.3	<27.2 <26.9	<109 <108	<1.7 <1.7	<59.0 <58.3	<567 <560	<1.6 <1.6	ND ND	<1.5 3.0	ND 7.66	ND ND	ND ND	ND ND	<1.3 13.9	<1.2 <1.2	<1.2 15.0
1,2,4-Trichlorobenzene	<1.6	<32.9	<131	<2.1	<71.3	<684	<1.9	ND	<1.8	ND	ND	ND	ND	<1.5	<1.5	<1.5
1,2,4-Trimethylbenzene	3.3	<33.2	153	<5.3	<180	<1730	<4.8	ND	12.8	ND	ND	ND	ND	<3.8	<3.7	10.2
1,2-Dibromoethane (EDB)	<2.5	<53.1	<212	<3.4	<115	<1110	<3.1	ND	<2.9	ND	ND	ND	ND	<2.5	<2.4	<2.4
1,2-Dichlorobenzene 1,2-Dichloroethane	<1.9 <1.3	<39.8 <27.2	<159 <109	<2.6 <1.7	<86.4 <59.0	<829 <567	5.5 <1.6	ND ND	<2.2 <1.5	ND ND	ND ND	ND ND	ND ND	<1.8 <1.3	<1.8 <1.2	<1.8 <1.2
1,2-Dichloropropane	<1.5	<31.2	<125	<2.0	<67.7	<650	2.5	ND	<1.7	7.05	ND	ND ND	ND	<1.4	<1.4	<1.4
1,3,5-Trimethylbenzene	<1.6	<33.2	<133	<5.3	<180	<1730	<4.8	ND	<4.5	ND	ND	ND	ND	<3.8	<3.7	5.0
1,3-Butadiene	<0.72	<14.9	<59.8	<0.96	<32.4	<311	<0.87	ND	<0.81	ND	ND	ND	ND	<0.69	<0.67	<0.67
1,3-Dichlorobenzene	<1.9	<39.8	<159	<2.6	<86.4	<829	<2.3	ND ND	<2.2	ND ND	ND ND	ND ND	ND ND	<1.8	<1.8	6.0
1,4-Dichlorobenzene 2-Butanone (MEK)	<1.9 41.4	<39.8 26.9	<159 1,120	<2.6 12.1	<86.4 <43.2	<829 <415	3.7 18.0	ND ND	<2.2 44.2	ND 12.9	ND ND	ND ND	ND ND	<1.8 12.2	<1.8 <0.89	8.6 15.8
2-Hexanone	<1.3	<27.6	<110	<1.8	<59.8	<574	<1.6	ND ND	<1.5	ND	ND	ND ND	ND	<1.3	<1.2	<1.2
2-Propanol	21.9	<83.0	484	9.6	<180	<1730	7.9	ND	19.0	NA	NA	NA	NA	4.9	<3.7	<3.7
4-Ethyltoluene	<4.0	<83.0	<332	<5.3	<180	<1730	<4.8	ND	<4.5	ND	ND	ND	ND	<3.8	<3.7	6.0
4-Methyl-2-pentanone (MIBK) Acetone	8.3 29.0	<27.6 78.0	<110 227	<1.8 53.9	<59.8 74.8	<574 <332	<1.6 509	ND ND	<1.5 163	ND 84.5	ND 76,800	ND 126	ND 116	<1.3 37.000	<1.2 501	<1.2 7,510
Benzene	<1.0	<21.6	<86.3	<1.4	<46.8	<332 <449	<1.3	ND ND	<1.2	ND	76,800 ND	16.2	ND	1.1	1.5	2.3
Benzyl chloride	<1.7	<34.9	<139	<2.2	<1210	<726	<2.0	ND	<1.9	NA NA	NA	NA NA	NA NA	NA	NA	NA NA
Bromodichloromethane	<2.2	<46.5	<186	<3.0	<101	<968	<2.7	ND	<2.5	ND	ND	ND	ND	<2.2	<2.1	<2.1
Bromoform	<3.3	<69.7	<279	<4.5	<151	<1450	<4.1	ND	<3.8	ND	ND	ND	ND	<3.2	<3.1	<3.1
Bromomethane Carbon disulfide	<1.3 <1.0	<26.2 <20.9	<105 <83.7	<1.7 <1.3	<56.9 <45.4	<546 <435	<1.5 7.7	ND ND	<1.4 1.3	ND ND	ND ND	ND ND	ND ND	<1.2 <0.97	<1.2 <0.93	<1.2 5.9
Carbon tetrachloride	<2.1	<43.2	<173	<2.8	<93.6	<899	<2.5	ND	<2.3	ND	ND	ND	ND	<2.0	<1.9	<1.9
Chlorobenzene	<1.5	<31.2	<125	<2.0	<67.7	<650	3.1	ND	<1.7	ND	ND	ND	ND	<1.4	<1.4	<1.4
Chloroethane	<0.86	<17.9	<71.7	<1.2	<38.9	<373	<1.0	ND	<0.97	ND	ND	ND	ND	<0.83	<0.80	<0.80
Chloroform Chloromethane	4.9 <0.67	<32.9 <13.9	<131 <55.8	<2.1 1.2	<71.3 <30.2	<684 <290	4.9 9.6	ND ND	11.3 <0.76	15.4 ND	ND ND	ND ND	ND ND	25.8 <0.65	<1.5 <0.62	21.5 <0.62
cis-1,2-Dichloroethene	36.3	77.3	<108	<1.7	272	1,070	33.6	ND	80.2	198	ND	47.2	118	257	21.5	2,620
cis-1,3-Dichloropropene	<1.5	<30.5	<122	<2.0	<66.2	<636	<1.8	ND	<1.7	ND	ND	ND	ND	<1.4	<1.4	<1.4
Cyclohexane	<1.1	<22.6	<90.3	<1.4	<49.0	<470	3.7	ND	2.2	14.3	ND	766	ND	<1.0	<1.0	3.5
Dibromochloromethane Dichlorodifluoromethane	<2.7 <1.6	<56.4 <33.2	<226 <133	<3.6 2.6	<122 <72.0	<1180 <691	<3.3 4.1	ND ND	<3.1 11.0	ND ND	ND ND	ND ND	ND ND	<2.6 <1.5	<2.5 2.8	<2.5 <1.5
Dichlorotetrafluoroethane	<2.2	<46.5	<186	<3.0	<101	<968	<2.7	ND	<2.5	ND	ND	ND	ND	<2.2	<2.1	<2.1
Ethanol	286	726	<252	48.3	<2190	<1310	67.3	ND	26.1	NA	NA	NA	NA	8.9	8.4	5.7
Ethyl acetate	3.4	<24.2	<96.9	<1.6	<52.6	<505	<1.4	ND	<1.3	ND	ND	ND	ND	<1.1	<1.1	<1.1
Ethylbenzene Hexachloro-1.3-butadiene	2.0	<29.2	<117	<1.9	<63.4 <158	<608 <1520	<1.7 <4.2	ND ND	118 <4.0	ND ND	ND ND	ND ND	ND ND	7.9 <3.4	<1.3 <3.3	<1.3
m&p-Xylene	<3.5 6.9	<73.0 <58.4	<292 <234	<4.7 <3.7	<158	<1520	<4.2 5.1	ND ND	<4.0 456	ND ND	ND ND	ND ND	ND ND	<3.4 25.0	<3.3 2.6	<3.3 14.2
Methylene Chloride	101	<23.6	<94.3	294	<51.1	<491	<1.4	ND	<1.3	ND	ND	270	ND	<1.1	276	<1.1
Methyl-tert-butyl ether	<1.2	<24.2	<96.9	<1.6	<52.6	<505	<1.4	ND	<1.3	ND	ND	ND	ND	<1.1	<1.1	<1.1
Naphthalene	<4.3	<89.6	<359	<5.8	<194	<1870	<5.2	ND ND	<4.9	NA ND	NA ND	NA ND	NA ND	5.6	<4.0	4.2
n-Heptane n-Hexane	<1.3 <1.1	<27.6 <23.9	<110 <95.6	<1.8 45.9	<59.8 <51.8	<574 <498	2.0 <1.4	ND ND	2.7 4.7	ND 135	ND ND	ND ND	ND ND	<1.3 2.1	<1.2 35.4	2.6 3.4
o-Xylene	5.8	<29.2	<117	<1.9	<63.4	<608	1.8	ND	159	ND	ND	ND	ND	7.5	<1.3	4.8
Propylene	<0.56	<11.6	<46.5	1.3	<25.2	<242	<0.68	ND	<0.63	ND	ND	ND	ND	<0.54	<0.52	<0.52
Styrene	<1.4	<28.9	<116	<1.9	<62.6	<601	<1.7	ND	<1.6	ND	ND	ND 2 722	ND	<1.3	<1.3	<1.3
Tetrachloroethene Tetrahydrofuran	5,040 6.3	2,680 <19.9	1,300 <79.7	6.5 <1.3	489,000 45.3	689,000 <415	27,900 15.0	282,000 ND	215,000 58.0	1,720,000 45.6	8,550,000 56,400	6,790 ND	381,000 145	571,000 36.2	396,000 <0.89	3,630,000 31.1
Tetranydrofuran Toluene	12.3	<19.9 <25.6	102	<1.3 21.2	45.3 <55.4	<415 <532	8.0	ND ND	28.4	124	56,400 ND	9.58	ND	17.6	<0.89 10.3	14.4
trans-1,2-Dichloroethene	<1.3	<26.9	<108	<1.7	<58.3	<560	<1.6	ND	<1.5	ND	ND	ND ND	ND	<1.2	<1.2	4.2
trans-1,3-Dichloropropene	<1.5	<30.5	<122	<2.0	<66.2	<636	<1.8	ND	<1.7	ND	ND	ND	ND	<1.4	<1.4	<1.4
Trichloroethene	14.8	<36.5	<146	42.3	101	<760	24.5	3,730	43.7	116	ND	21.3	ND	153	13.6	1,640
Trichlorofluoromethane Vinyl acetate	<1.7 <1.1	<36.5 <23.6	<146 <94.3	<2.3 <1.5	<79.2 <51.1	<760 <491	<2.1 3.0	ND ND	<2.0 8.9	ND ND	ND ND	ND ND	ND ND	<1.7 7.4	1.7 <1.1	2.2 8.7
Vinyl chloride	<0.83	<17.3	<69.1	<1.1	<37.4	<359	<1.0	ND ND	<0.94	ND ND	ND	ND	ND ND	<0.80	<0.77	<0.77
TOTAL VOCs	46,334	19,686	548	493,213	1,032,070	50,553	438,730	331,284	2,364,821	11,403,200	12,510	453,479	608,840	494,779	3,795,077	14,603,780
Bold: Parameter detected above the reporting limit.	,	. , , , , , , ,		, -		,					, , , , , , , , , , , , , , , , , , , ,				· · · · ·	

TOTAL VOCs
Bold: Parameter detected above the reporting limit.

NA: Not analyzed

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

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

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

Conc. (ug per (ug per (ug per (guideline Chronic Risk Acute Risk (ug per (ug per (ug per Hazard Hazard (guideline							RRASS	Emissions Sum	mary			Р	R Program	Emissions	Summary	
10192009 DFE-1 PCE	Date		Parameter		(ug per	(ug per	Specific (ug per	Lifetime Cancer Risk (guideline	Chronic Risk	Acute Risk	(ug per	(ug per	Specific (ug per	Hazard	Hazard	Lifetime Cancer Risk (guideline
10192009 DPE-1 PCE 398,000 5,940 5,6 5,946 NA 16,300 5,980,000 NA NA NA NA NA NA NA	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
10195000 All Wells PCE 571,000 8,966 S.6 8,671 NA 16,300 5,980,000 NA NA NA NA NA NA NA			PCE								NA	NA	NA	NA	NA	NA
1117/2009 All Wells PCE 881,000 4,963 U.S 4,963 NA 16,300 5,880,000 NA																
12172000 All Wells PCE 6.550,00 393,300 393,304 NA 16,300 5,980,000 NA NA NA NA NA NA NA																
1142010 All Wells PCE 6,500,000 393,300 39, 393,304 NA 16,300 5,980,000 NA NA NA NA NA NA NA	12/17/2009	All Wells	PCE	6,790	197	0.5		NA		5,980,000	NA	NA	NA	NA	NA	NA
22222010 All Wels PCE 1720,000 82,560 1.3 82,561 NA 16,300 5,580,000 NA		All Wells	PCE	8.550.000	393.300	3.9	393.304	NA			NA	NA	NA	NA	NA	NA
3052010				, ,		1.3		NA	· · · · · · · · · · · · · · · · · · ·	, ,	NA	NA	NA	NA	NA	NA
4/16/2010 All Wells PCE 220,000 9,588 1,3 9,589 NA 16,300 5,980,000 NA NA NA NA NA NA NA																
5/12/2010 All Wells PCE 27;900 17,729 0.8 1,730 NA 16,300 5,980,000 NA NA NA NA NA NA NA																
617/2010 All Wells PCE 689.000 11,713 3.9 11,717 NA 16,300 5,980.000 NA NA NA NA NA NA NA																
17/28/2010 All Wells																
12/23/2010 All Wells PCE 2,680 64 3,2 68 NA 16,300 5,980,000 NA NA NA NA NA NA NA																
1/20/2011 All Wells PCE 5,040 282 3.5 286 NA 16,300 5,880,000 NA NA NA NA NA NA NA																
2232(2011 All Wells PCE 4,590 225 4,1 229 NA 16,300 5,980,000 NA NA NA NA NA NA NA																
3023/2011 All Wells PCE 7,340 250 0.18 250 NA 16,300 5,980,000 NA NA NA NA NA NA NA																
A Z Z Z D11																
5/19/2011 All Wells PCE 6,270 125 0.67 126 7.8E-08 16,300 5,990,000 121 1 122 0 0 0 9.8E-08 16/2011 All Wells PCE 308 NA NA NA NA NA NA NA N																
6/16/2011 All Wells PCE 688				-,												
7/25/2011 All Wells PCE 308 NA NA NA NA NA NA 6 5 11 0 0 8,5E-09 9/28/2011 DPE-1,2,3,4 PCE 3,420 NA NA NA NA NA NA NA NA O 7 7 0 0 5,5E-09 9/28/2011 DPE-1,2,3,4 PCE 180 NA																
SUBBOOT All Wells PCE 0																
9/29/2011 DPE-1,2,3,4 PCE																
10/27/2011 DPE-1,2,3.4 PCE														-		
11/21/2011 DPE-1,2,3.4 PCE 22,100 NA NA NA NA NA NA NA														-		
1/27/2012 OPE-1,2,3.4 PCE 29,100 NA NA NA NA NA NA NA																
2/16/2012 DPE-1,2,3,4 PCE																
3/16/2012 DPE-1,2,3,4 PCE O																
4/17/2012 DPE-1,2,3,4 PCE 20,600 NA																
5/17/2012 DPE-1,2,3,4 PCE 25,200 NA NA NA NA NA NA NA																
6/14/2012 DPE-1,2,3,4 PCE 11,200 NA NA NA NA NA NA NA																
T/19/2012 DPE-3 PCE 113,000 NA NA NA NA NA NA NA																
8/23/2012 DPE-3 PCE 27,800 NA																
9/26/2012 DPE-3 PCE 45,800 NA																
10/26/2012¹ DPE-3 PCE 664,000 NA NA NA NA NA NA NA 12,535 5 12,540 0 0.2 1.0E-05 12/21/2012 DPE-3 PCE 358,000 NA <																
12/21/2012 DPE-3 PCE 358,000 NA																
1/30/2013 DPE-1,2,3,4 PCE 348,000 NA N				,												
2/26/2013 DPE-1,2,3,4 PCE 1,600 NA NA<																
3/21/2013 DPE-1,2,3,4 PCE 17,500 NA																
5/23/2013 DPE-1,2,3,4 PCE 43,200 NA NA NA NA NA 2,039 1 2,040 0 0.0 1,6E-06 6/26/2013 DPE-1,2,3,4 PCE 102 NA NA NA NA NA NA 56 1 57 0 0.0 4,3E-09 8/26/2013 DPE-1,2,3,4 PCE 122 NA NA NA NA NA NA 5 1 6 0 0.0 4,3E-09 10/13/2015 All Wells PCE 61 NA NA NA NA NA NA NA 1 1 0 0.0 1.7E-08 1/12/2016 All Wells PCE 7,200 NA NA NA NA NA NA NA 1 1 0 0.0 1.8E-07 2/24/2016 All Wells PCE 8,400 NA NA NA NA NA NA NA <														-		
6/26/2013 DPE-1,2,3,4 PCE 102 NA NA NA NA NA NA NA NA NA S6 1 57 0 0.0 4.3E-09 8/26/2013 DPE-1,2,3,4 PCE 122 NA NA NA NA NA NA NA NA S 5 1 6 0 0.0 4.3E-09 8/26/2013 DPE-1,2,3,4 PCE 122 NA NA NA NA NA NA NA NA NA S 5 1 6 0 0.0 4.3E-09 10/13/2015 All Wells PCE 61 NA												· · · · · · · · · · · · · · · · · · ·				
8/26/2013 DPE-1,2,3,4 PCE 122 NA NA NA NA NA NA S 1 6 0 0.0 4.3E-09 10/13/2015 All Wells PCE 61 NA NA NA NA NA NA 1 10 11 0 0.0 1.7E-08 1/12/2016 All Wells PCE 7,200 NA NA NA NA NA NA 219.00 0.00 219.00 0.00 0.00 1.8E-07 2/24/2016 All Wells PCE 8,400 NA NA NA NA NA NA NA 255.00 7.00 262.00 0.00 0.00 2.1E-07 3/30/2016 All Wells PCE 19,000 NA NA NA NA NA NA NA 0.00 262.00 0.00 0.00 2.1E-07 4/20/2016 All Wells PCE 6 NA NA NA NA <td></td>																
10/13/2015 All Wells PCE 61 NA																
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2/24/2016 All Wells PCE 8,400 NA NA NA NA NA NA NA 255.00 7.00 262.00 0.00 0.00 2.1E-07 3/30/2016 All Wells PCE 19,000 NA NA NA NA NA NA S88.00 1.00 589.00 0.00 0.00 4.8E-07 4/20/2016 All Wells PCE 6 NA NA NA NA NA NA 0.00 2.00 0.00 0.00 2.1E-09 5/18/2016 All Wells PCE 18 NA NA NA NA NA NA 1.00 0.00 1.00 0.00 0.00 6.5E-10																
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4/20/2016 All Wells PCE 6 NA NA NA NA NA NA NA 0.00 2.00 2.00 0.00 0.00 2.1E-09 5/18/2016 All Wells PCE 18 NA NA NA NA NA 1.00 0.00 1.00 0.00 0.00 6.5E-10																
5/18/2016 All Wells PCE 18 NA NA NA NA NA NA NA NA 1.00 0.00 1.00 0.00 6.5E-10																
7.11 TOTAL 1-2- 2-00 1VA 1VA 1VA 1VA 1VA 1VA 1VA 1.00 0.00 7.00 0.00 0.00 0.00 0.00 0.00																
	5/20/2010	7 111 7 7 6 113	. 52	200	14/7	14/3	14/7	14/5	14/4	14/1	7.00	0.00	7.00	0.00	0.00	0.0L-00

Notes: SERs: MPCA Screening Emissions Rates

61,780 Emissions rate is above MPCA SER

NA: Not Applicable

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

Table 14

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

Monitorir	ng Period							Total V	OCs				
Start Date ¹	End Date	Days per Period	Hours per Period	Flow Meter Reading (gallons)	Gallons Treated During Period	Average Flow Rate (gpm)	Average Flow Rate (liter/sec)	Influent Conc. (ug/L)	Effluent Conc. (ug/L)	% Reduction	Mass Removed per Period (lbs)	Cumulative Mass Removed (lbs)	Addition to Emission Rate (Ibs/day)
4/9/2009 ²	4/9/2009	0	2	119	51	0.4	0.027	176,343	NA	NA	NA	NA	NA
6/4/2009	6/4/2009 ³	0	2	192	73	0.6	0.038	4,630	8,991	-94	NA	NA	NA
6/4/2009	7/9/2009	11	264	16,115	15,923	1.0	0.063	1,547	479	69	0.14	0.14	0.01
7/9/2009	9/4/2009	57	1368	38,299	22,184	0.3	0.017	191	20	90	0.03	0.17	0.001
9/4/2009	10/15/2009	41	984	62,643	24,344	0.4	0.026	238	0	100	0.05	0.22	0.001
10/15/2009	11/16/2009	32	768	73,800	11,157	0.2	0.015	31	0	100	0.00	0.22	0.000
11/16/2009	12/17/2009 ⁴	31	744	89,800	16,000	0.4	0.023	24	12	50	0.00	0.23	0.000
12/17/2009	1/14/2010	28	672	106,024	16,224	0.4	0.025	309	32	90	0.04	0.26	0.001
1/14/2010	2/22/2010	39	936	122,167	16,143	0.3	0.018	73	16	78	0.01	0.27	0.000
2/22/2010	3/25/2010 ^{5,6}	31	744	148,206	26,039	0.6	0.037	507	764	-51	-0.06	0.27	-0.002
3/25/2010 ^{5,6}	4/16/2010 ⁵	22	528	161,857	13,651	0.4	0.027	61	525	-765	-0.05	0.27	-0.002
4/16/2010	5/12/2010	26	624	170.079	8,222	0.2	0.014	66	0	100	0.005	0.28	0.000
5/12/2010	6/17/2010	36	864	200,398	30,319	0.6	0.037	119	24	80	0.024	0.30	0.001
6/17/2010	7/26/2010	39	936	226,504	26,106	0.5	0.029	41	0	100	0.009	0.31	0.000
7/26/2010	9/27/2010	63	1512	240,247	13,743	0.2	0.010	84	18	79	0.008	0.32	0.000
9/27/2010	10/18/2010	21	504	255,417	15,170	0.5	0.032	210	6	97	0.026	0.34	0.001
10/18/2010	12/22/2010	65	1560	283,957	28,540	0.3	0.019	173	11	94	0.038	0.38	0.001
12/22/2010	1/20/2011	29	696	328,912	44,955	1.1	0.068	52	0	100	0.019	0.40	0.001
1/20/2011	3/1/2011	40	960	357,774	28,862	0.5	0.032	131	0	100	0.031	0.43	0.001
3/1/2011	3/23/2011	22	528	369,603	11,829	0.4	0.024	43	7	84	0.004	0.43	0.000
3/23/2011	4/22/2011	30	720	461,499	91,896	2.1	0.134	41	0	100	0.032	0.47	0.001
4/22/2011	5/19/2011	27	648	480,836	19,337	0.5	0.031	22	0	100	0.004	0.47	0.000
5/19/2011	6/16/2011	28	672	487,852	7,016	0.2	0.011	43	0	100	0.003	0.47	0.000
6/16/2011	7/25/2011	39	936	606,917	119,065	2.1	0.134	37	0	100	0.037	0.51	0.001
7/25/2011	8/28/2011	34	816	645,249	38,332	0.8	0.049	51	5	90	0.015	0.52	0.000
8/28/2011	9/29/2011	32	768	673,352	28,103	0.6	0.038	45	7	86	0.009	0.53	0.000
9/29/2011	10/27/2011	28	672	694,330	20,978	0.5	0.033	41	0	100	0.007	0.54	0.000
10/27/2011	11/21/2011	25	600	716,049	21,719	0.6	0.038	32	0	100	0.006	0.55	0.000
11/21/2011	1/20/2012	60	1440	725,742	9,693	0.1	0.007	149	45	70	0.008	0.55	0.000
1/20/2012	1/27/2012	7	168	731,337	5,595	0.6	0.035	76	0	100	0.004	0.56	0.001
1/27/2012	2/16/2012	20	480	746,725	15,388	0.5	0.034	52	0	100	0.007	0.56	0.000
2/16/2012	3/16/2012	29	696	757,124	10,399	0.2	0.016	87	0	100	0.007	0.57	0.000
3/16/2012	4/17/2012	32	768	783,562	26,438	0.6	0.036	40	0	100	0.009	0.58	0.000
4/17/2012	5/17/2012	30	720	809,091	25,529	0.6	0.037	23	0	100	0.005	0.58	0.000

Table 14

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

Monitorii	ng Period							Total V	OCs				
Start Date ¹	End Date	Days per Period	Hours per Period	Flow Meter Reading (gallons)	Gallons Treated During Period	Average Flow Rate (gpm)	Average Flow Rate (liter/sec)	Influent Conc. (ug/L)	Effluent Conc. (ug/L)	% Reduction	Mass Removed per Period (lbs)	Cumulative Mass Removed (lbs)	Addition to Emission Rate (Ibs/day)
5/17/2012	6/14/2012	28	672	830,565	21,474	0.5	0.034	39	3	92	0.006	0.59	0.000
6/14/2012	7/19/2012	35	840	835,414	4,849	0.1	0.006	36	35	2	0.000	0.59	0.000
7/19/2012	8/23/2012	35	840	849,507	14,093	0.3	0.018	46	0	100	0.005	0.60	0.000
8/23/2012	9/26/2012	34	816	860,318	10,811	0.2	0.014	22	2	92	0.002	0.60	0.000
9/26/2012	10/26/2012	30	720	951,486	91,168	2.1	0.133	36	2	95	0.026	0.62	0.001
10/26/2012	12/21/2012	56	1344	951,486	0	0.0	0.000	92	15	84	0.000	0.62	0.000
12/21/2012	1/30/2013	40	960	1,789,194	11,387	0.2	0.012	26	0	100	0.002	0.63	0.000
1/30/2013	2/26/2013	27	648	1,905,916	13,303	0.3	0.022	96	114	-19	-0.002	0.63	0.000
2/26/2013	3/21/2013	23	552	1,925,225	19,309	0.6	0.037	32	0	100	0.005	0.63	0.000
3/21/2013	5/23/2013	63	1512	1,941,137	15,912	0.2	0.011	123	17	86	0.014	0.65	0.000
5/23/2013	6/26/2013	34	816	1,954,470	13,333	0.3	0.017	56	0	100	0.006	0.65	0.000
6/26/2013	8/26/2013	61	1464	1,981,481	27,011	0.3	0.019	37	7	81	0.007	0.66	0.000
10/13/2015	10/13/2015	0.25	6	1,982,572	1,091	3.0	0.191	101	0	100	0.001	0.66	0.004
12/15/2015	12/15/2015			1,982,639	67								
12/15/2015	1/12/2016	28.00	672	1,993,342	10,703	0.3	0.017	21	56	-166	-0.003	0.66	0.000
1/12/2016	2/24/2016	43.00	1032	2,232,374	10,703	0.2	0.011	144	344	-140	-0.018	0.65	0.000
2/24/2016	3/30/2016	35.00	840	2,489,395	10,703	0.2	0.013	98	71	28	0.002	0.65	0.000
3/30/2016	4/20/2016	21.00	504	2,716,043	10,703	0.4	0.022	160	121	24	0.003	0.65	0.000
4/20/2016	5/18/2016	28.00	672	3,068,238	10,703	0.3	0.017	28	45	-57	-0.001	0.65	0.000
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Notes:

- 1. The initial reading of the transfer pump totalizer was 68 gallons.
- 2. Initial sampling event to determine if groundwater treatment was necessary.
- 3. Increase in total VOCs was from PVC glue and cement that was used during the construction of the DPE system and air stripper.
- 4. Based on the PCE concentrations in the AS-Influent and AS-Effluent samples, it appears as if the samples were mislabeled or mixed up at the lab.

 Therefore, the influent and effluent total VOC data in this table has been changed to show the highest total VOC concentration data as the influent data and the lowest total VOC concentration as the effluent data.
- 5. Increase in total VOCs was from PVC glue and cement that was used during installation of the secondary demister moisture separator.
- 6. Flow totalizer reading switched from the analog flow meter reading to the field totalizer reading for better accuracy.
- 7. Discharge flow meter malfunction caused invalid field totalizer reading; therefore, analog flow totalizer was used starting on 4/22/11.
- 8. Analog flow totalizer reading on 10/27/11 was estimated from field readings from Oct. 27 and Sept 29, 2011.

Flow meter and totalizer not working. The DPE system was off from Oct. 26 through Dec. 21, 2012; therefore, the volume discharged during this period was 0 gallons.

Gallons treated during periods ending on Jan. 30 and Feb. 26, 2013, were calculated from field totalizer.

Flow meter failing therefore assumed same discharge volume on Feb. 24, March 30, April 20, and May 18, 2016, as the Jan. 12, 2016, value of 10,703 gallons.

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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	AS-Influent	AS-Effluent	AS-Influent	AS-Effluent
Collected Date	5/18/2016	5/18/2016	4/20/2016	4/20/2016	3/30/2016	3/30/2016	2/24/2016	2/24/2016	1/11/2016	1/11/2016	10/13/2015	10/13/2015	9/9/2015	9/9/2015	8/26/2013	8/26/2013
1,1,1,2-Tetrachloroethane 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	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<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	<1.0	<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	<1.0	<1.0	<1.0	<1.0
1,1,2-Trichlorotrifluoroethane 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	<1.0 <1.0	<1.0 <1.0	<5.0 <1.0	<5.0 <1.0	<5.0 <1.0	<5.0 <1.0	1.1 <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	<1.0	<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	<1.0	<1.0	<1.0	<1.0
1,2,3-Trichlorobenzene 1,2,3-Trichloropropane	<1.0 <4.0	<1.0 <4.0	<1.0 <4.0	<1.0 <4.0	<1.0 <4.0	<1.0 <4.0	<1.0 <4.0	<1.0 <4.0	<5.0 <1.0	<5.0 <1.0	<5.0 <1.0	<5.0 <1.0	<1.0 <4.0	<1.0 <4.0	<1.0 <4.0	<1.0 <4.0
1,2,4-Trichlorobenzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<5.0	<5.0	<5.0	<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	<1.0	<1.0	<1.0	<1.0
1,2-Dibromo-3-chloropropane 1,2-Dibromoethane (EDB)	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<5.0 <1.0	<5.0 <1.0	<5.0 <1.0	<5.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <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	<1.0	<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	<1.0	<1.0	<1.0	<1.0
1,2-Dichloropropane 1,3,5-Trimethylbenzene	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <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	<1.0	<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	<1.0	<1.0	<1.0	<1.0
1,4-Dichlorobenzene 2,2-Dichloropropane	<1.0 <4.0	<1.0 <4.0	<1.0 <4.0	<1.0 <4.0	<1.0 <4.0	<1.0 <4.0	<1.0 <4.0	<1.0 <4.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <4.0	<1.0 <4.0	<1.0 <4.0	<1.0 <4.0
2-Butanone (MEK)	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20.0	<20.0	<20.0	<20.0	<5.0	<5.0	<5.0	<5.0
2-Chloroethylvinyl ether	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	NA	NA	NA	NA	<10.0	<10.0	<10.0	<10.0
2-Chlorotoluene 2-Hexanone	<1.0 NA	<1.0 NA	<1.0 NA	<1.0 NA	<1.0 NA	<1.0 NA	<1.0 NA	<1.0 NA	<1.0 NA	<1.0 NA	<1.0 NA	<1.0 NA	<1.0 NA	<1.0 NA	<1.0 NA	<1.0 NA
2-Methylnaphthalene	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA
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	<1.0	<1.0	<1.0	<1.0
4-Methyl-2-pentanone (MIBK) Acetone	<5.0 25.2	<5.0 44.5	<5.0 53.9	<5.0 121	<5.0 38.9	<5.0 71.2	<5.0 112	<5.0 342	<20.0 <20.0	<20.0 56.3	<5.0 <20.0	<5.0 <20.0	<5.0 <20.0	<5.0 <20.0	<5.0 <20.0	<5.0 <20.0
Acrolein	NA	NA NA	NA	NA NA	NA	NA	NA NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acrylonitrile	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Allyl chloride Benzene	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<5.0 <1.0	<5.0 <1.0	<5.0 <1.0	<5.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <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	<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	<1.0	<1.0	<1.0	<1.0
Bromodichloromethane Bromoform	<1.0 <4.0	<1.0 <4.0	<1.0 <4.0	<1.0 <4.0	<1.0 <4.0	<1.0 <4.0	<1.0 <4.0	<1.0 <4.0	<1.0 <5.0	<1.0 <5.0	<1.0 <5.0	<1.0 <5.0	<1.0 <4.0	<1.0 <4.0	<1.0 <4.0	<1.0 <4.0
Bromomethane	<4.0	<4.0	<4.0	<4.0	<4.0 <4.0	<4.0	<4.0	<4.0	<5.0 <5.0	<5.0 <5.0	<5.0 <5.0	<5.0 <5.0	<4.0	<4.0	<4.0	<4.0
Carbon disulfide	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon tetrachloride 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	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <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	<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	<5.0	<5.0	<5.0	<5.0	<1.0	<1.0	<1.0	<1.0
Chloromethane Chloroprene	<4.0 NA	<4.0 NA	<4.0 NA	<4.0 NA	<4.0 NA	<4.0 NA	<4.0 NA	<4.0 NA	<1.0 NA	<1.0 NA	<1.0 NA	<1.0 NA	<4.0 NA	<4.0 NA	<4.0 NA	6.9 NA
cis-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	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	<5.0	<5.0	<1.0	<1.0	<4.0	<4.0	<4.0	<4.0
Dibromoethane Dibromomethane	<1.0 <4.0	<1.0 <4.0	<1.0 <4.0	<1.0 <4.0	<1.0 <4.0	<1.0 <4.0	<1.0 <4.0	<1.0 <4.0	<5.0 <1.0	<5.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <4.0	<1.0 <4.0	<1.0 <4.0	<1.0 <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	<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	<1.0	<1.0	<1.0	<1.0
Diethyl ether (Ethyl ether) Ethylbenzene	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<5.0 <1.0	<5.0 <1.0	<5.0 <1.0	<5.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0
Hexachloro-1,3-butadiene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<5.0	<5.0	<5.0	<2.0	<2.0	<1.0	<1.0
lodomethane	NA 1.0	NA	NA 1.0	NA	NA 1.0	NA 1.0	NA 1.0	NA	NA	NA	NA 1.0	NA	NA 1.0	NA	NA 1.0	NA
Isopropylbenzene (Cumene) m&p-Xylene	<1.0 <2.0	<1.0 <2.0	<1.0 <2.0	<1.0 <2.0	<1.0 <2.0	<1.0 <2.0	<1.0 <2.0	<1.0 <2.0	<1.0 NA	<1.0 NA	<1.0 NA	<1.0 NA	<1.0 <2.0	<1.0 <2.0	<1.0 <2.0	<1.0 <2.0
Methylene Chloride	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<1.0	<1.0	<1.0	<1.0	<4.0	<4.0	<4.0	<4.0
Methyl-tert-butyl ether Naphthalene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
n-Butylbenzene	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<5.0 <1.0	<5.0 <1.0	<5.0 <1.0	<5.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <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	<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	NA 4.0	NA 4.0	NA 4.0	NA 4.0	<1.0	<1.0	<1.0	<1.0
p-Isopropyltoluene 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	<1.0 <1.0	<1.0 <1.0	<1.0 <5.0	<1.0 <5.0	<1.0 <5.0	<1.0 <5.0	<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	<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	<1.0	<1.0	<1.0	<1.0
Tetrachloroethene Tetrahydrofuran	3.1 <10.0	<1.0 <10.0	106 <10.0	<1.0 <10.0	59.5 <10.0	<1.0 <10.0	31.5 <10.0	1.8 <10.0	21.2 <5.0	<1.0 <5.0	101 <5.0	<1.0 <5.0	167 <10.0	2.5 <10.0	36.1 <10.0	<1.0 <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	<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	<1.0	<1.0	<1.0	<1.0
trans-1,3-Dichloropropene Trichloroethene	<4.0 <0.40	<4.0 <0.40	<4.0 <0.40	<4.0 <0.40	<4.0 <0.40	<4.0 <0.40	<4.0 <0.40	<4.0 <0.40	<20.0 <1.0	<20.0 <1.0	<1.0 <1.0	<1.0 <1.0	<4.0 <0.40	<4.0 <0.40	<4.0 <0.40	<4.0 <0.40
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	<1.0	<1.0	<1.0	<1.0
Vinyl acetate	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vinyl chloride Xylene (Total)	<0.40 <3.0	<0.40 <3.0	<0.40 <3.0	<0.40 <3.0	<0.40 <3.0	<0.40 <3.0	<0.40 <3.0	<0.40 <3.0	<1.0 <3.0	<1.0 <3.0	<1.0 <3.0	<1.0 <3.0	<0.40 <3.0	<0.40 <3.0	<0.40 <3.0	<0.40 <3.0
Total VOC Concentration	<3.0 28.3	<3.0 44.5	<3.0 159.9	<3.0 121	<3.0 98.4	<3.0 71.2	<3.0 143.5	<3.0 343.8	<3.0 21.2	<3.0 56.3	<3.0 101	<3.0 0	<3.0 169.1	<3.0 2.5	<3.0 36.1	<3.0 6.9
Pold : Parameter detected above the reporting limit	_0.0				U U U			U 70.0							V V. I	<u> </u>

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.

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	AS-Influent	AS-Effluent	AS-Influent	AS-Effluent	AS-Influent	AS-Effluent	AS-Influent	AS-Effluent	AS-Influent	AS-Effluent
Collected Date	6/26/2013	6/26/2013	5/22/2013	5/22/2013	3/21/2012	3/21/2013	2/26/2013	2/26/2013	1/30/2013	1/30/2013	12/21/2012	12/21/2012	10/26/2012	10/26/2012	9/26/2012	9/26/2012	8/23/2012	8/23/2012	7/19/2012	7/19/2012	6/14/2012	6/14/2012
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	<1.0	<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	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1,2,2-Tetrachloroethane 1,1,2-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	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0
1,1,2-Trichlorotrifluoroethane	<1.0	<1.0	<1.0	1.1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<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	<1.0	<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	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1-Dichloropropene 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	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <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	<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	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2,4-Trimethylbenzene 1,2-Dibromo-3-chloropropane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0 <4.0
1.2-Dibromoethane (EDB)	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <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	<1.0	<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	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-Dichloropropane 1,3,5-Trimethylbenzene	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <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	<1.0	<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	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,4-Dichloropenzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
2,2-Dichloropropane 2-Butanone (MEK)	<4.0 <5.0	<4.0 <5.0	<4.0 <5.0	<4.0 <5.0	<4.0 <5.0	<4.0 <5.0	<4.0 <5.0	<4.0 <5.0	<4.0 <4.0	<4.0 <4.0	<4.0 4.5	<4.0 7.4	<4.0 <4.0	<4.0 <4.0	<4.0 <4.0	<4.0 <4.0	<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	<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	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
2-Hexanone 2-Methylnaphthalene	NA NA	NA NA	<5.0 <5.0	<5.0 <5.0	<5.0 <5.0	<5.0 <5.0	NA* NA*	NA*	<4.0 <5.0	<4.0 <5.0	NA* NA*	NA* NA*	<4.0 <5.0	<4.0 <5.0	<4.0 <5.0	<4.0 <5.0	<4.0 <5.0	<4.0 <5.0	<4.0 <5.0	<4.0 <5.0	NA* NA*	NA* NA*
4-Chlorotoluene	<1.0	<1.0	<5.0 <1.0	<5.0 <1.0	<5.0 <1.0	<5.0 <1.0	<1.0	<1.0	<5.0 <1.0	<5.0 <1.0	<1.0	<1.0	<5.0 <1.0	<5.0 <1.0	<5.0 <1.0	<5.0 <1.0	<5.0 <1.0	<5.0 <1.0	<5.0 <1.0	<5.0 <1.0	<1.0	NA" <1.0
4-Methyl-2-pentanone (MIBK)	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<4.0	<4.0	<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	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0	60.3	114	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
Acrolein Acrylonitrile	NA NA	NA NA	<10.0 <10.0	<10.0 <10.0	<10.0 <10.0	<10.0 <10.0	NA* NA*	NA* NA*	<10.0 <10.0	<10.0 <10.0	NA* NA*	NA* NA*	<10.0 <10.0	<10.0 <10.0	<10.0 <10.0	<10.0 <10.0	<10.0 <10.0	<10.0 <10.0	<10.0 <10.0	<10.0 <10.0	NA* NA*	NA* NA*
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	<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	<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	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Bromochloromethane 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	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<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	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Bromomethane	<10.0	<10.0	<4.0	<4.0	<10.0	<10.0	<10.0	<10.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<10.0	<10.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Carbon disulfide	NA	NA	<1.0	<1.0	<1.0	<1.0	NA*	NA*	<1.0	<1.0	NA*	NA*	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA*	NA*
Carbon tetrachloride 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	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0
Chloroethane	<4.0	<4.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<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	<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	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Chloroprene cis-1,2-Dichloroethene	NA <1.0	NA <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	NA* <1.0	NA* <1.0	<1.0 <1.0	<1.0 <1.0	NA* <1.0	NA* <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	NA* <1.0	NA* <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	<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	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Dibromomethane Dichlorodifluoromethane	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <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	<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	<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	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Hexachloro-1,3-butadiene Iodomethane	<1.0 NA	<1.0 NA	<5.0 <4.0	<5.0 <4.0	<5.0 <4.0	<5.0 <4.0	<5.0 NA*	<5.0 NA*	<5.0 <4.0	<5.0 <4.0	<5.0 NA*	<5.0 NA*	<5.0 <4.0	<5.0 <4.0	<5.0 <10.0	<5.0 <10.0	<5.0 <4.0	<5.0 <4.0	<5.0 <4.0	<5.0 <4.0	<5.0 NA*	<5.0 NA*
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	<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	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Methylene Chloride Methyl-tert-butyl ether	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0
Naphthalene	<4.0	<4.0	<4.0	<1.0 <4.0	<4.0	<1.0	<4.0	<4.0	<1.0	<4.0	<4.0	<4.0	<1.0	<1.0	<1.0	<4.0	<4.0	<4.0	<1.0	<4.0	<4.0	<1.0 <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	<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	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
o-Xylene 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	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<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	<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	<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	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Tetrachloroethene Tetrahydrofuran	56.4 <10.0	<1.0 <10.0	123 <10.0	15.5 <10.0	31.5 <10.0	<1.0 <10.0	35.4 <10.0	<1.0 <10.0	26.3 <10.0	<1.0 <10.0	71.7 15.3	7.5 <10.0	35.7 <10.0	1.6 <10.0	21.8 <10.0	1.8 <10.0	45.5 <10.0	<1.0 <10.0	36.1 <10.0	35.2 <10.0	39.0 <10.0	3.3 <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	<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	<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	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Trichloroethene Trichlorofluoromethane	<0.40 <1.0	<0.40 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0
Vinyl acetate	NA	NA	<10.0	<10.0	<10.0	<10.0	×1.0 NA*	×1.0 NA*	<10.0	<10.0	<1.0 NA*	<1.0 NA*	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<1.0 NA*	×1.0 NA*
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	<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	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0
Total VOC Concentration	56.4	0	123	16.6	31.5	0	95.7	114	26.3	0	91.5	14.9	35.7	1.6	21.8	1.8	45.5	0	36.1	35.2	39	3.3

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.

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	AS-Influent	AS-Effluent	AS-Influent	AS-Effluent	AS-Influent	AS-Effluent	AS-Influent	AS-Effluent	AS-Influent	AS-Effluent
Collected Date	5/17/2012	5/17/2012	4/17/2012	4/17/2012	3/16/2012	3/16/2012	2/16/2012	2/16/2012	1/27/2012	1/27/2012	1/20/2012	1/20/2012	11/21/2011	11/21/2011	10/27/2011	10/27/2011	9/29/2011	9/29/2011	8/28/2011	8/28/2011	7/25/2011	7/25/2011
1,1,1,2-Tetrachloroethane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
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	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1,2,2-Tetrachloroethane 1,1,2-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	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0
1,1,2-Trichlorotrifluoroethane	<1.0	<1.0	<1.0	<1.0	1.2	<1.0	<1.0	<1.0	<1.0	<1.0	2.9	6.4	<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	<1.0	<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	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1-Dichloropropene 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	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <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	<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	<1.0	<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	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-Dibromo-3-chloropropane 1,2-Dibromoethane (EDB)	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <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	<1.0	<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	<1.0	<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	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
1,3,5-Trimethylbenzene 1,3-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	<1.0	<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	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <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	<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	<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	8.8	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	6.5	<4.0	<4.0	<4.0	<4.0
2-Chloroethylvinyl ether 2-Chlorotoluene	<10.0 <1.0	<10.0 <1.0	<10.0 <1.0	<10.0 <1.0	<10.0 <1.0	<10.0 <1.0	<10.0 <1.0	<10.0 <1.0	<10.0 <1.0	<10.0 <1.0	<10.0 <1.0	<10.0 <1.0	<10.0 <1.0	<10.0 <1.0	<10.0 <1.0	<10.0 <1.0	<10.0 <1.0	<10.0 <1.0	<10.0 <1.0	<10.0 <1.0	<10.0 <1.0	<10.0 <1.0
2-Hexanone	<1.0 NA*	<1.0 NA*	<4.0	<4.0	<1.0 NA	NA	<4.0	<4.0	<4.0	<1.0 <4.0	<4.0	<4.0	<1.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
2-Methylnaphthalene	NA*	NA*	<5.0	<5.0	NA	NA	<5.0	<5.0	<5.0	<5.0	<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	<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) Acetone	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Acrolein	<25.0 NA*	<25.0 NA*	<25.0 <10.0	<25.0 <10.0	<25.0 NA	<25.0 NA	<25.0 <10.0	<25.0 <10.0	<25.0 <10.0	<25.0 <10.0	<25.0 <10.0	<25.0 <10.0	<25.0 <10.0	<25.0 <10.0	<25.0 <10.0	<25.0 <10.0	<25.0 <10.0	<25.0 <10.0	<25.0 <10.0	<25.0 <10.0	<25.0 <10.0	<25.0 <10.0
Acrylonitrile	NA*	NA*	<10.0	<10.0	NA NA	NA NA	<10.0	<10.0	<10.0	<10.0	<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	<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	<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	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<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	<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	<4.0	<4.0	<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	<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 Carbon tetrachloride	NA* <1.0	NA* <1.0	<1.0 <1.0	<1.0 <1.0	NA <1.0	NA <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <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	<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	<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	<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	<4.0	<4.0	<4.0	<4.0	<4.0	9.4	7.8	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	4.9	<4.0	<4.0
Chloroprene cis-1,2-Dichloroethene	NA* <1.0	NA* <1.0	<1.0 <1.0	<1.0 <1.0	NA <1.0	NA <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <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	<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	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Dibromomethane Dichlorodifluoromethane	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
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	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<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	<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	<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	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Isopropylbenzene (Cumene)	NA* <1.0	NA* <1.0	<4.0 <1.0	<4.0 <1.0	NA <1.0	NA <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <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	<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	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Methyl-tert-butyl ether	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Naphthalene n-Butylbenzene	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <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	<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	<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	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
sec-Butylbenzene 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	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<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	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Tetrachloroethene	22.7	<1.0	39.6	<1.0	86.5	<1.0	51.8	<1.0	76.3	<1.0	149	45.1	31.6	<1.0	40.3	<1.0	45.1	<1.0	50.7	<1.0	37.0	<1.0
Tetrahydrofuran	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<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 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	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
trans-1,3-Dichloropene	<1.0 <4.0	<1.0 <4.0	<1.0 <4.0	<1.0 <4.0	<1.0 <4.0	<1.0 <4.0	<1.0 <4.0	<1.0 <4.0	<1.0 <4.0	<1.0 <4.0	<1.0 <4.0	<1.0 <4.0	<4.0 <4.0	<4.0 <4.0	<4.0 <4.0	<4.0 <4.0	<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	<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	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Vinyl acetate	<0.40	<0.40	<10.0	<10.0	NA	NA	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
Vinyl chloride Yylene (Total)	<3.0	<3.0	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<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) Total VOC Concentration	<3.0 22.7	<3.0 0	<3.0 39.6	<3.0 0	<3.0 91.7	<3.0 0	<3.0 51.8	<3.0 0	<3.0 76.3	<3.0 0	<3.0 149	<3.0 45.1	<3.0 31.6	<3.0 0	<3.0 40.3	<3.0 0	<3.0 45.1	<3.0 6.5	<3.0 50.7	<3.0 4.9	<3.0 37	<3.0 0
	22.1	U	აყ.ნ	U	91./	U	J1.0	V	10.3	U	149	43.1	31.0	U	40.3	V	43.1	0.0	JU./	4.9	ા ગ	U

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.

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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	AS-Influent AS	-Effluent AS	S-Influent	AS-Effluent	AS-Influent	AS-Effluent	AS-Influent	AS-Effluent	AS-Influent	AS-Effluent
Collected Date	6/16/2011	6/16/2011	5/19/2011	5/19/2011	4/22/2011	4/22/2011	3/23/2011	3/23/2011	3/1/2011	3/1/2011	1/20/2011	1/20/2011	12/23/2010 12	/23/2010 10	/19/2010	10/19/2010	7/26/2010	7/26/2010	6/17/2010	6/17/2010	5/12/2010	5/12/2010
1,1,1,2-Tetrachloroethane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1,1-Trichloroethane 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	<1.0 <1.0	<1.0	<1.0	<1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <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	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
1,1,2-Trichlorotrifluoroethane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	2.3	<1.0	<1.0	<1.0	3.0	<1.0	1.9	<1.0	<1.0	<1.0	2.6	<1.0	2.5	<1.0
1,1-Dichloroethane 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	<1.0	<1.0	<1.0	<1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<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	<1.0 <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	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2,3-Trichloropropane 1,2,4-Trichlorobenzene	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0	<4.0 <1.0	<4.0 <1.0	<1.0	<1.0 <1.0	<1.0 <1.0	<1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0	<1.0 <1.0	<1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <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 <1.0	<1.0	<1.0	<1.0	<1.0 <1.0	<1.0	<1.0 <1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<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	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
1,2-Dibromoethane (EDB) 1,2-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	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<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	<1.0	<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	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,3,5-Trimethylbenzene 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	<1.0 <1.0	<1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <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	<1.0	<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	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
2,2-Dichloropropane 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	<4.0 <4.0	<4.0 4.5	<4.0 5.6	<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	<4.0 <10.0	<4.0 <10.0	<4.0	<4.0 <10.0	<4.0 <10.0	<4.0 <10.0	<4.0 <10.0	<4.0 <10.0	<4.0 <10.0	<4.0 <10.0	<4.0 <10.0	<4.0 <10.0		<10.0	4.5 <10.0	<10.0	<4.0	<4.0 <10.0	<4.0 <10.0	<4.0 <10.0	<4.0 <10.0	<4.0 <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	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
2-Hexanone 2-Methylnaphthalene	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0 <5.0	<4.0 <5.0	<4.0	<4.0	<4.0 <5.0
2-Methylnaphthalene 4-Chlorotoluene	<5.0 <1.0	<5.0 <1.0	<5.0 <1.0	<5.0 <1.0	<5.0 <1.0	<5.0 <1.0	<5.0 <1.0	<5.0 <1.0	<5.0 <1.0	<5.0 <1.0	<5.0 <1.0	<5.0 <1.0	<5.0 <1.0	<5.0 <1.0	<5.0 <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	<4.0	<4.0	<4.0	<4.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Acrolein Acrolein	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<10.0	11.1	<10.0	<10.0	<10.0 <40.0	<10.0 <40.0	<10.0 <40.0	13.3 <40.0	<10.0 <40.0	<10.0 <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	<10.0 <10.0	<10.0 <10.0	<10.0	<10.0	<10.0	<10.0	<40.0	<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	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Benzene 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	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <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	<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	<1.0	<1.0	<1.0	<1.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Bromoform Bromomethane	<4.0 <4.0	<8.0 <4.0	<8.0 <4.0	<8.0 <4.0	<8.0 <4.0	<8.0 <4.0	<8.0 <4.0	<8.0 <4.0	<8.0 <4.0													
Carbon disulfide	<1.0	<4.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<4.0	<4.0 <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	<1.0	<1.0	<4.0	<4.0	<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 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	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <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	<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	<4.0	35.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	7.2	8.7	<4.0	<4.0
Chloroprene cis-1,2-Dichloroethene	<1.0 <1.0	<1.0 1.3	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 1.8	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 1.5	<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	<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	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Dibromomethane Dichlorodifluoromethane	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0							
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	<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	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Ethylbenzene Hexachloro-1,3-butadiene	<1.0 <5.0	<1.0 <4.0	<1.0 <4.0	<1.0 <4.0	<1.0 <4.0	<1.0 <4.0	<1.0 <4.0	<1.0 <4.0	<1.0 <4.0													
lodomethane	<5.0 <4.0	<4.0 <4.0	<4.0	<4.0	<4.0 <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	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
m&p-Xylene Methylene Chloride	<2.0 <4.0	<2.0 6.8	<2.0 <4.0	<2.0 <4.0	<2.0 <4.0	<2.0 <4.0	<2.0 <4.0	<2.0 <4.0	<2.0 <4.0	<2.0 <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	<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	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
n-Butylbenzene 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	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <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	<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	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
sec-Butylbenzene 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	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <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		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Tetrachloroethene	42.8	<1.0	21.8	<1.0	41.3	<1.0	7.6	<1.0	127	<1.0	51.8	<1.0	168	<1.0	204	<1.0	<1.0	40.6	108	2.4	63.4	<1.0
Tetrahydrofuran Toluene	<10.0 <1.0	<10.0 <1.0	<10.0 <1.0	<10.0 <1.0	<10.0 <1.0		<10.0 <1.0	<10.0	<10.0 <1.0	<10.0 <1.0	<10.0 <1.0	<10.0 <1.0	<10.0 <1.0	<10.0 <1.0	<10.0 <1.0							
trans-1,2-Dichloroethene	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<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	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Trichloroethene 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	<1.0	<1.0	<1.0 <1.0	<1.0	<1.0	<1.0	<1.0	<1.0 <4.0	<1.0 <4.0	<1.0 <4.0	<1.0 <4.0	<1.0 <4.0	<1.0 <4.0
Vinyl acetate	<1.0 <10.0	<1.0 <10.0	<1.0	<1.0 <10.0	<1.0 <10.0	<1.0 <10.0	<1.0	<1.0 <10.0	<1.0 <20.0	<1.0 <20.0	<1.0 <20.0	<1.0 <20.0		<1.0 <20.0	<1.0	<1.0 <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	<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	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0
Total VOC Concentration Bold: Parameter detected above the reporting limit.	42.8	0	21.8	0	41.3	0	42.6	6.8	130.6	0	51.8	0	172.8	11.1	210.4	5.6	0	40.6	119.3	15.7	65.9	0

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.

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

			1	1			1		1			ı		1		ı		1				
Sample ID	AS-Influent	AS-Effluent ³	AS-Influent	AS-Effluent ³	AS-Influent	AS-Effluent	AS-Influent	AS-Effluent	AS-Influent	AS-IN Vial 2	AS-Effluent	AS-INFLUENT	AS- EFFLUENT	AS-Influent	AS-Effluent	AS-Influent	AS-Effluent	AS-INFLUENT	AS- EFFLUENT	AS INFLUENT	. AS EFFLUENT ²	DPE Discharge ¹
Collected Date	4/16/2010	4/16/2010	3/25/2010	3/25/2010	2/22/2010	2/22/2010	1/14/2010	1/14/2010	12/17/2009	12/17/2009	12/17/2009	11/16/2009	11/16/2009	10/15/2009	10/15/2009	9/4/2009	9/4/2009	7/9/2009	7/9/2009	6/4/2009	6/4/2009	4/9/2009
1,1,1,2-Tetrachloroethane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<50.0	<1.0	<5.0
1,1,1-Trichloroethane 1,1,2,2-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	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<5.0 <5.0	<1.0 <1.0	<50.0 <50.0	<1.0 <1.0	29.4 <5.0
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	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<20.0	<4.0	<200	<4.0	<20.0
1,1,2-Trichlorotrifluoroethane	1.4	<1.0	1.0	<1.0	2.1	<1.0	1.3	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	1.4	<1.0	1.2	<1.0	10.4	<1.0	53.7	<1.0	7860
1,1-Dichloroethane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<50.0	<1.0	<5.0
1,1-Dichloroethene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<50.0	<1.0	<5.0
1,1-Dichloropropene 1,2,3-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	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0	<1.0	<5.0	<1.0	<50.0	<1.0	<5.0
1,2,3-Trichloropenee	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0 <1.0	<1.0 <1.0	<5.0 <5.0	<1.0 <1.0	<50.0 <50.0	<1.0 <1.0	<5.0 <5.0
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	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<50.0	<1.0	<5.0
1,2,4-Trimethylbenzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<50.0	<1.0	26.0
1,2-Dibromo-3-chloropropane	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<20.0	<4.0	<200	<4.0	<20.0
1,2-Dibromoethane (EDB) 1,2-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	<1.0	<1.0	<1.0	<1.0 <1.0	<1.0	<1.0 <1.0	<1.0 <1.0	<1.0	<1.0	<5.0	<1.0	<50.0	<1.0	<5.0
1,2-Dichloroethane	<1.0	<1.0	<1.0 <1.0	<1.0 <1.0	<1.0	<1.0 <1.0	<1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0	<1.0 <1.0	<1.0	<1.0	<1.0 <1.0	<1.0 <1.0	<5.0 <5.0	<1.0 <1.0	<50.0 <50.0	<1.0 <1.0	<5.0 <5.0
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	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<50.0	<1.0	<5.0
1,3,5-Trimethylbenzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<50.0	<1.0	7.1
1,3-Dichlorobenzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<50.0	<1.0	<5.0
1,3-Dichloropropane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<50.0	<1.0	<5.0
1,4-Dichlorobenzene 2,2-Dichloropropane	<1.0 <4.0	<1.0 <4.0	<1.0 <4.0	<1.0 <4.0	<1.0 <4.0	<1.0 <4.0	<1.0 <1.0	<1.0 <1.0	<1.0	<1.0 <1.0	<1.0	<1.0 <4.0	<1.0 <4.0	<1.0 <4.0	<1.0 <4.0	<1.0	<1.0	<5.0	<1.0	<50.0	<1.0	7.8
2-Butanone (MEK)	<4.0 <4.0	4.9	<4.0 4.9	<4.0 7.5	<4.0	<4.0 <4.0	7.0	<4.0	<1.0 <4.0	<1.0	<1.0 <4.0	<4.0 <4.0	<4.0	<4.0 5.4	<4.0 <4.0	<1.0 13.5	<1.0 19.8	<5.0 <20.0	<1.0 82.1	<50.0 <200	<1.0 1670	<5.0 392
2-Chloroethylvinyl ether	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<25.0	<25.0	<25.0	<25.0	<25.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<50.0	<10.0	<1250	<25.0	<50.0
2-Chlorotoluene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<50.0	<1.0	51.0
2-Hexanone	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<20.0	<4.0	<200	<4.0	<20.0
2-Methylnaphthalene	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<25.0	<5.0	<250	<5.0	<25.0
4-Chlorotoluene 4-Methyl-2-pentanone (MIBK)	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<50.0	<1.0	<5.0
Acetone	<5.0 <10.0	<5.0 29.3	<5.0 11.2	<5.0 29.8	<5.0 <10.0	<5.0 <10.0	<5.0 14.6	<5.0 <10.0	<5.0 <10.0	<5.0 <10.0	<5.0 <10.0	<5.0 <10.0	<5.0 <10.0	<5.0 <10.0	<5.0 <10.0	<5.0 <10.0	<5.0 <10.0	<25.0 <50.0	<5.0 68.7	<250 <500	<5.0 987	<25.0 <50.0
Acrolein	<40.0	<40.0	<40.0	<40.0	<40.0	<40.0	<40.0	<40.0	<40.0	<40.0	<40.0	<40.0	<40.0	<40.0	<40.0	<40.0	<40.0	<200	<40.0	<2000	<40.0	<200
Acrylonitrile	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<50.0	<10.0	<500	<10.0	<50.0
Allyl chloride	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<20.0	<4.0	<200	<4.0	<20.0
Benzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<50.0	<1.0	<5.0
Bromochloromethane	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<5.0	<1.0 <1.0	<50.0	<1.0 <1.0	<5.0
Bromodichloromethane	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<5.0 <20.0	<4.0	<50.0 <200	<4.0	<5.0 <20.0
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	<8.0	<8.0	<8.0	<8.0	<8.0	<40.0	<8.0	<400	<8.0	<40.0
Bromomethane	<4.0	<4.0	37.3	38.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<20.0	<4.0	<200	<4.0	<20.0
Carbon disulfide	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<50.0	<1.0	<5.0
Carbon tetrachloride Chlorobenzene	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<1.0	<1.0	<1.0	<1.0	<1.0	<4.0	<4.0	<4.0	<4.0	<1.0	<1.0	<5.0	<1.0	<50.0	<1.0	<5.0
Chloroethane	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<5.0 <5.0	<1.0 <1.0	<50.0 <50.0	<1.0 <1.0	<5.0 <5.0
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	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<50.0	<1.0	<5.0
Chloromethane	10.7	491	380	644	<4.0	<4.0	98.5	31.9	<1.0	<1.0	1.3	<4.0	<4.0	<1.0	<1.0	<1.0	<1.0	63.3	76.4	<50.0	<1.0	<5.0
Chloroprene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<50.0	<1.0	<5.0
cis-1,2-Dichloroethene	<1.0	<1.0	<1.0	<1.0	1.3	<1.0	1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	1.5	<1.0	1.5	<1.0	13.0	<1.0	62.9	<1.0	206
cis-1,3-Dichloropropene Dibromochloromethane	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0 <1.0	<4.0	<4.0	<20.0	<4.0	<200	<4.0	<20.0
Dibromomethane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0 <1.0	<1.0 <1.0	<5.0 <5.0	<1.0 <1.0	<50.0 <50.0	<1.0 <1.0	<5.0 <5.0
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	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<50.0	<1.0	<5.0
Dichlorofluoromethane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<50.0	<1.0	<5.0
Diethyl ether (Ethyl ether)	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<20.0	<4.0	<200	<4.0	<20.0
Ethylbenzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<50.0	<1.0	<5.0
Hexachloro-1,3-butadiene lodomethane	<4.0 <4.0	<4.0 <4.0	<4.0 17.3	<4.0 18.9	<4.0 <4.0	<4.0 <4.0	<4.0 <4.0	<4.0 <4.0	<4.0 <4.0	<4.0 <4.0	<4.0 <4.0	<4.0 <4.0	<4.0 <4.0	<4.0 <4.0	<4.0 <4.0	<4.0 <4.0	<4.0 <4.0	<20.0 <20.0	<4.0 <4.0	<200 <200	<4.0 <4.0	<20.0 <20.0
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	<1.0	<1.0	<1.0	<1.0	<1.0	<20.0 <5.0	<4.0	<50.0	<4.0 <1.0	<20.0 <5.0
m&p-Xylene	<2.0	<2.0	<2.0	3.4	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<10.0	<2.0	<100	<2.0	<10.0
Methylene Chloride	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<20.0	<4.0	<200	<4.0	<20.0
Methyl-tert-butyl ether	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<50.0	<1.0	<5.0
Naphthalene n-Butylbenzene	<4.0	<4.0 <1.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0 <1.0	<4.0	<4.0	<20.0	<4.0	<200	<4.0	<20.0
n-Butylbenzene 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	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0	<1.0 <1.0	<1.0 <1.0	<5.0 <5.0	<1.0 <1.0	<50.0 <50.0	<1.0 <1.0	5.0 <5.0
o-Xylene	<1.0	<1.0	<1.0	1.6	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0 <5.0	<1.0	<50.0	<1.0	<5.0 <5.0
p-IsopropyItoluene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<50.0	<1.0	<5.0
sec-Butylbenzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<50.0	<1.0	<5.0
Styrene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<50.0	<1.0	<5.0
tert-Butylbenzene Tetrachloroethene	<1.0 48.6	<1.0	<1.0	<1.0	<1.0 69.6	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0 30.7	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0 1460	<1.0	<50.0	<1.0	<5.0 167000
Tetrahydrofuran	48.6 <10.0	<1.0 <10.0	55.5 <10.0	<1.0 20.3	<10.0	<1.0 15.7	157 29.4	<1.0 <10.0	<1.0 11.7	<1.0 11.5	22.7 <10.0	30.7 <10.0	<1.0 <10.0	214 15.7	<1.0 <10.0	175 <10.0	<1.0 <10.0	1460 <50.0	<1.0 252	3970 543	33.8 6300	600
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	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<50.0	<1.0	<5.0
trans-1,2-Dichloroethene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<50.0	<1.0	<5.0
trans-1,3-Dichloropropene	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<20.0	<4.0	<200	<4.0	<20.0
Trichloroethene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<50.0	<1.0	159
Trichlorofluoromethane Vinyl acetate	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<20.0	<4.0	<200	<4.0	<20.0
Vinyl chloride	<20.0 <0.40	<20.0 <0.40	<20.0 <0.40	<20.0 <0.40	<20.0 <0.40	<20.0 <0.40	<20.0 <0.40	<20.0 <0.40	<20.0 <0.40	<20.0 <0.40	<20.0 <0.40	<20.0 <0.40	<20.0 <0.40	<20.0 <0.40	<20.0 <0.40	<20.0 <0.40	<20.0 <0.40	<100 <2.0	<20.0 <0.40	<1000 <20.0	<20.0 <0.40	<100 <2.0
Xylene (Total)	<3.0	<3.0	<0.40	<0.40 4.9	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<0.40	<0.40	<15.0	<0.40	<150	<0.40	<2.0 <15.0
Total VOC Concentration	60.7	525.2	507.2	763.5	73	15.7	308.8	31.9	11.7	11.5	24	30.7	0	238	0	191.2	19.8	1,546.7	479.2	4,566.7	8,990.8	176,338.3
Bold : Parameter detected above the reporting limit.				. 50.0														, ,		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		

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.

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.

Attachments

Attachment A



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

February 10, 2016

REVISION

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

Work Order Number: 1600183

RE: TO-15

This is a revised report. The details of the revision are listed in the case narrative on the following page.

Enclosed are the results of analyses for samples received by the laboratory on 01/13/16. 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. Additionally, all samples were received in acceptable condition unless otherwise noted.

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 Accreditation #027-123-295

Prepared by, LEGEND TECHNICAL SERVICES, INC

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



Fax: 651-642-1239

Landmark Environmental	Project:	TO-15		
2042 West 98th Street	Project Number:	CRC	Work Order #:	1600183
Bloomington, MN 55431	Project Manager:	Mr. Jason Skramstad	Date Reported:	02/10/16

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
DPE-EXHAUST	1600183-01	Air	01/12/16 14:22	01/13/16 12:50
LSG-7	1600183-02	Air	01/12/16 12:14	01/13/16 12:50
LSG-8	1600183-03	Air	01/12/16 11:20	01/13/16 12:50
LSG-9	1600183-04	Air	01/12/16 11:38	01/13/16 12:50
LSG-10	1600183-05	Air	01/12/16 11:52	01/13/16 12:50
SP-1 (ES)	1600183-06	Air	01/12/16 12:58	01/13/16 12:50
SP-2 (SSL)	1600183-07	Air	01/12/16 12:42	01/13/16 12:50

Case Narrative:

Per the client's instructions, TICs were not included in this report.

At the client's request, this report was revised on February 2, 2016 to change the sample ID for laboaratory ID 1600183-01 to DPE-EXHAUST. This report supersedes the report dated January 26, 2016.

Fax: 651-642-1239

Landmark EnvironmentalProject:TO-152042 West 98th StreetProject Number:CRCWork Order #: 1600183Bloomington, MN 55431Project Manager:Mr. Jason SkramstadDate Reported: 02/10/16

VOC - AIR Legend Technical Services, Inc.

Analyte (CAS#)	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
DPE-EXHAUST (1600183-01) Air	Received:01/13	/16 12:50	Sample	d:01/12/16	14:22					
1,1,1-Trichloroethane (71-55-6)	<8.1	8.1	0.13	ug/m³	3	B6A2216	01/21/16	01/22/16	TO-15(M)	
1,1,2,2-Tetrachloroethane (79-34-5)	<10	10	0.22	ug/m³	3	"	"	"	"	
1,1,2-Trichloroethane (79-00-5)	<8.1	8.1	0.33	ug/m³	3	"	"	"	"	
1,1-Dichloroethane (75-34-3)	<6.0	6.0	0.33	ug/m³	3	"	"	"	"	
1,1-Dichloroethene (75-35-4)	<6.0	6.0	0.23	ug/m³	3	"	"	ıı	II .	
1,2,4-Trichlorobenzene (120-82-1)	<11	11	0.39	ug/m³	3	"	n .	"	"	
1,2,4-Trimethylbenzene (95-63-6)	<3.0	3.0	0.22	ug/m³	3	"	"	"	"	
1,2-Dibromoethane (106-93-4)	<11	11	0.48	ug/m³	3	"	"	"	"	
1,2-Dichlorobenzene (95-50-1)	<9.0	9.0	0.21	ug/m³	3	"	"	"	"	
1,2-Dichloroethane (107-06-2)	<6.0	6.0	0.16	ug/m³	3	"	"	"	"	
1,2-Dichloropropane (78-87-5)	<6.9	6.9	0.24	ug/m³	3	"	"	ıı	II .	
1,3,5-Trimethylbenzene (108-67-8)	<3.0	3.0	0.33	ug/m³	3	"	"	"	"	
1,3-Butadiene (106-99-0)	<3.3	3.3	0.30	ug/m³	3	"	"	ıı	II .	
1,3-Dichlorobenzene (541-73-1)	<9.0	9.0	0.42	ug/m³	3	"	"	ıı	II .	
1,4-Dichlorobenzene (106-46-7)	<9.0	9.0	0.51	ug/m³	3	"	"	u u	"	
2-Butanone (78-93-9)	17	4.5	0.23	ug/m³	3	"	"	u u	"	
4-Ethyltoluene (622-96-8)	<7.5	7.5	0.33	ug/m³	3	"	"	"	"	
Acetone (67-64-1)	46	3.6	0.16	ug/m³	3	"	"	"	"	
Benzene (71-43-2)	<1.9	1.9	0.15	ug/m³	3	"	"	II .	"	
Benzyl chloride (100-44-7)	<7.8	7.8	0.22	ug/m³	3	"	"	ıı .	"	
Bromodichloromethane (75-27-4)	<10	10	0.39	ug/m³	3	"	"	"	"	
Bromoform (75-25-2)	<16	16	0.39	ug/m³	3	"	"	"	"	
Bromomethane (74-83-9)	<5.7	5.7	0.21	ug/m³	3	"	"	"	"	
Carbon disulfide (75-15-0)	<4.8	4.8	0.21	ug/m³	3	"	"	II .	"	
Carbon tetrachloride (56-23-5)	<9.3	9.3	0.26	ug/m³	3	"	"	"	"	
Chlorobenzene (108-90-7)	<6.9	6.9	0.24	ug/m³	3	"	"	"	"	
Chloroethane (75-00-3)	<3.9	3.9	0.11	ug/m³	3	"	"	"	"	
Chloroform (67-66-3)	<7.2	7.2	0.16	ug/m³	3	"	"	"	"	
Chloromethane (74-87-3)	<3.0	3.0	0.13	ug/m³	3	"	"	"	"	
cis-1,2-Dichloroethene (156-59-2)	9.6	6.0	0.27	ug/m³	3	"	"	"	"	
cis-1,3-Dichloropropene (10061-01-5)	<6.9	6.9	0.36	ug/m³	3	"	"	"	"	
Cyclohexane (110-82-7)	<5.1	5.1	0.18	ug/m³	3	"	"	"	"	
Dibromochloromethane (124-48-1)	<13	13	0.48	ug/m³	3	"	"	"	"	
Dichlorodifluoromethane (75-71-8)	<7.5	7.5	0.36	ug/m³	3	"	"	"	"	
Dichlorotetrafluoroethane (76-14-2)	<10	10	0.19	ug/m³	3	"	"	"	"	

Legend Technical Services, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Fax: 651-642-1239

Landmark EnvironmentalProject:TO-152042 West 98th StreetProject Number:CRCWork Order #: 1600183Bloomington, MN 55431Project Manager:Mr. Jason SkramstadDate Reported: 02/10/16

Analyte (CAS#)	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
DPE-EXHAUST (1600183-01) Air	Received:01/13/	16 12:50	Sample	d:01/12/16	14:22					
Ethanol (64-17-5)	1400	56	4.1	ug/m³	60	B6A2216	01/21/16	01/22/16	TO-15(M)	
Ethyl acetate (141-78-6)	<5.4	5.4	0.33	ug/m³	3	"	"	01/22/16	"	
Ethylbenzene (100-41-4)	<2.6	2.6	0.25	ug/m³	3	"	"	"	"	
Hexachlorobutadiene (87-68-3)	<16	16	0.81	ug/m³	3	"	"	"	"	
Isopropyl alcohol (67-63-0)	380	72	4.5	ug/m³	60	"	"	01/22/16	"	
m,p-Xylene (136777-61-2)	6.0	5.1	0.45	ug/m³	3	"	"	01/22/16	"	
Methyl butyl ketone (591-78-6)	<6.0	6.0	0.36	ug/m³	3	"	"	"	"	
Methyl isobutyl ketone (108-10-1)	<6.0	6.0	0.33	ug/m³	3	"	"	"	"	
Methyl tert-butyl ether (1634-04-4)	<5.4	5.4	0.33	ug/m³	3	"	"	"	"	
Methylene chloride (75-09-2)	<5.1	5.1	0.63	ug/m³	3	"	"	II .	II .	
Naphthalene (91-20-3)	<7.8	7.8	0.33	ug/m³	3	"	"	"	II .	
n-Heptane (142-82-5)	<6.0	6.0	0.23	ug/m³	3	"	"	"	II .	
n-Hexane (110-54-3)	<5.4	5.4	0.22	ug/m³	3	"	"	"	"	
o-Xylene (95-47-6)	<2.6	2.6	0.29	ug/m³	3	"	"	"	"	
Propylene (115-07-1)	<2.6	2.6	0.081	ug/m³	3	"	"	"	"	
Styrene (100-42-5)	<6.3	6.3	0.29	ug/m³	3	"	"	"	"	
Tetrachloroethene (127-18-4)	7200	200	7.8	ug/m³	60	"	"	01/22/16	"	
Tetrahydrofuran (109-99-9)	<4.5	4.5	0.11	ug/m³	3	"	"	01/22/16	"	
Toluene (108-88-3)	2.9	2.2	0.18	ug/m³	3	"	"	II .	II .	
trans-1,2-Dichloroethene (156-60-5)	<6.0	6.0	0.33	ug/m³	3	"	"	u u	"	
trans-1,3-Dichloropropene (10061-02-6)	<6.9	6.9	0.21	ug/m³	3	"	"	u u	"	
Trichloroethene (79-01-6)	5.6	3.3	0.36	ug/m³	3	"	"	u u	"	
Trichlorofluoromethane (75-69-4)	<8.4	8.4	0.14	ug/m³	3	"	"	u u	"	
Trichlorotrifluoroethane (76-13-1)	4500	230	10	ug/m³	60	"	"	01/22/16	"	
Vinyl acetate (108-05-4)	<5.4	5.4	2.7	ug/m³	3	"	"	01/22/16	"	
Vinyl chloride (75-01-4)	<1.5	1.5	0.15	ug/m³	3	"	"	"	"	
LSG-7 (1600183-02) Air Receive	d:01/13/16 12:50	Sample	d:01/12/1	6 12:14						
1,1,1-Trichloroethane (71-55-6)	<2.7	2.7	0.044	ug/m³	1	B6A2114	01/20/16	01/21/16	TO-15(M)	
1,1,2,2-Tetrachloroethane (79-34-5)	<3.4	3.4	0.074	ug/m³	1	"	"	"	"	
1,1,2-Trichloroethane (79-00-5)	<2.7	2.7	0.11	ug/m³	1	"	"	"	"	
1,1-Dichloroethane (75-34-3)	<2.0	2.0	0.11	ug/m³	1	"	"	"	II .	
1,1-Dichloroethene (75-35-4)	<2.0	2.0	0.078	ug/m³	1	"	"	"	II .	
1,2,4-Trichlorobenzene (120-82-1)	<3.7	3.7	0.13	ug/m³	1		"	"	"	
1,2,4-Trimethylbenzene (95-63-6)	2.2	1.0	0.073	ug/m³	1		"	"	"	
1,2-Dibromoethane (106-93-4)	<3.8	3.8	0.16	ug/m³	1	"	"	"	"	



Fax: 651-642-1239

Landmark Environmental TO-15 Project: 2042 West 98th Street Project Number: CRC Work Order #: 1600183 Bloomington, MN 55431 Project Manager: Mr. Jason Skramstad Date Reported: 02/10/16

Analyte (CAS#)	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
LSG-7 (1600183-02) Air Received:0	1/13/16 12:50	Sampl	ed:01/12/1	6 12:14						
1,2-Dichlorobenzene (95-50-1)	<3.0	3.0	0.071	ug/m³	1	B6A2114	01/20/16	01/21/16	TO-15(M)	
1,2-Dichloroethane (107-06-2)	<2.0	2.0	0.055	ug/m³	1	"	"	"	"	
1,2-Dichloropropane (78-87-5)	<2.3	2.3	0.081	ug/m³	1	"	"	"	"	
1,3,5-Trimethylbenzene (108-67-8)	<1.0	1.0	0.11	ug/m³	1	"	"	"	"	
1,3-Butadiene (106-99-0)	<1.1	1.1	0.10	ug/m³	1	"	"	"	II .	
1,3-Dichlorobenzene (541-73-1)	<3.0	3.0	0.14	ug/m³	1	"	"	"	"	
1,4-Dichlorobenzene (106-46-7)	<3.0	3.0	0.17	ug/m³	1	"	"	"	"	
2-Butanone (78-93-9)	6.9	1.5	0.078	ug/m³	1	"	"	"	"	
4-Ethyltoluene (622-96-8)	<2.5	2.5	0.11	ug/m³	1	"	"	"	"	
Acetone (67-64-1)	31	1.2	0.055	ug/m³	1	"	"	"	"	
Benzene (71-43-2)	0.85	0.64	0.050	ug/m³	1	"	"	II .	II .	
Benzyl chloride (100-44-7)	<2.6	2.6	0.073	ug/m³	1	"	"	ıı	п	
Bromodichloromethane (75-27-4)	<3.4	3.4	0.13	ug/m³	1	"	"	II .	II .	
Bromoform (75-25-2)	<5.2	5.2	0.13	ug/m³	1	"	"	"	II .	
Bromomethane (74-83-9)	<1.9	1.9	0.069	ug/m³	1	"	"	"	п	
Carbon disulfide (75-15-0)	<1.6	1.6	0.070	ug/m³	1	"	"	ıı	п	
Carbon tetrachloride (56-23-5)	<3.1	3.1	0.087	ug/m³	1	"	"	"	II .	
Chlorobenzene (108-90-7)	<2.3	2.3	0.080	ug/m³	1	"	"	"	"	
Chloroethane (75-00-3)	<1.3	1.3	0.037	ug/m³	1	"	"	"	II .	
Chloroform (67-66-3)	<2.4	2.4	0.055	ug/m³	1	"	"	"	"	
Chloromethane (74-87-3)	<1.0	1.0	0.044	ug/m³	1	"	"	ıı	п	
cis-1,2-Dichloroethene (156-59-2)	<2.0	2.0	0.089	ug/m³	1	"	"	"	"	
cis-1,3-Dichloropropene (10061-01-5)	<2.3	2.3	0.12	ug/m³	1	"	"	"	"	
Cyclohexane (110-82-7)	<1.7	1.7	0.059	ug/m³	1	"	"	"	"	
Dibromochloromethane (124-48-1)	<4.3	4.3	0.16	ug/m³	1	"	"	"	"	
Dichlorodifluoromethane (75-71-8)	<2.5	2.5	0.12	ug/m³	1	"	"	"	"	
Dichlorotetrafluoroethane (76-14-2)	<3.5	3.5	0.063	ug/m³	1	"	"	"	"	
Ethanol (64-17-5)	650	28	2.0	ug/m³	30	"	"	01/21/16	"	
Ethyl acetate (141-78-6)	3.8	1.8	0.11	ug/m³	1	"	"	01/21/16	"	
Ethylbenzene (100-41-4)	2.0	0.87	0.082	ug/m³	1	"	"	"	"	
Hexachlorobutadiene (87-68-3)	<5.3	5.3	0.27	ug/m³	1	"	"	"	"	
Isopropyl alcohol (67-63-0)	190	36	2.2	ug/m³	30	"	"	01/21/16	"	
m,p-Xylene (136777-61-2)	7.0	1.7	0.15	ug/m³	1	"	"	01/21/16	II .	
Methyl butyl ketone (591-78-6)	<2.0	2.0	0.12	ug/m³	1	"	"	II .	II .	
Methyl isobutyl ketone (108-10-1)	<2.0	2.0	0.11	ug/m³	1	"	"	"	"	

Fax: 651-642-1239

Landmark EnvironmentalProject:TO-152042 West 98th StreetProject Number:CRCWork Order #: 1600183Bloomington, MN 55431Project Manager:Mr. Jason SkramstadDate Reported: 02/10/16

Analyte (CAS#)	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
LSG-7 (1600183-02) Air Received:01	1/13/16 12:50	Samp	led:01/12/1	6 12:14						
Methyl tert-butyl ether (1634-04-4)	<1.8	1.8	0.11	ug/m³	1	B6A2114	01/20/16	01/21/16	TO-15(M)	
Methylene chloride (75-09-2)	<1.7	1.7	0.21	ug/m³	1	"	"	"	"	
Naphthalene (91-20-3)	<2.6	2.6	0.11	ug/m³	1	"	"	"	"	
n-Heptane (142-82-5)	<2.0	2.0	0.078	ug/m³	1	"	"	"	"	
n-Hexane (110-54-3)	2.3	1.8	0.074	ug/m³	1	"	n .	"	"	
o-Xylene (95-47-6)	2.0	0.87	0.096	ug/m³	1	"	"	"	"	
Propylene (115-07-1)	<0.86	0.86	0.027	ug/m³	1	"	"	"	"	
Styrene (100-42-5)	<2.1	2.1	0.096	ug/m³	1	"	"	"	"	
Tetrachloroethene (127-18-4)	17	3.4	0.13	ug/m³	1	"	"	"	"	
Tetrahydrofuran (109-99-9)	5.1	1.5	0.038	ug/m³	1	"	"	"	"	
Toluene (108-88-3)	12	0.75	0.060	ug/m³	1	"	"	"	"	
trans-1,2-Dichloroethene (156-60-5)	<2.0	2.0	0.11	ug/m³	1	"	"	"	"	
trans-1,3-Dichloropropene (10061-02-6)	<2.3	2.3	0.070	ug/m³	1	"	"	"	"	
Trichloroethene (79-01-6)	<1.1	1.1	0.12	ug/m³	1	"	"	"	"	
Trichlorofluoromethane (75-69-4)	<2.8	2.8	0.048	ug/m³	1	"	n .	"	"	
Trichlorotrifluoroethane (76-13-1)	4.7	3.8	0.17	ug/m³	1	"	n .	"	"	
Vinyl acetate (108-05-4)	<1.8	1.8	0.90	ug/m³	1	"	"	"	"	
Vinyl chloride (75-01-4)	<0.51	0.51	0.051	ug/m³	1	"	"	"	"	
LSG-8 (1600183-03) Air Received:01	//13/16 12:50	Samp	led:01/12/1	6 11:20						
1,1,1-Trichloroethane (71-55-6)	<2.7	2.7	0.044	ug/m³	1	B6A2114	01/20/16	01/21/16	TO-15(M)	
1,1,2,2-Tetrachloroethane (79-34-5)	<3.4	3.4	0.074	ug/m³	1	"	"	"	"	
1,1,2-Trichloroethane (79-00-5)	<2.7	2.7	0.11	ug/m³	1	"	"	"	"	
1,1-Dichloroethane (75-34-3)	<2.0	2.0	0.11	ug/m³	1	"	"	"	"	
1,1-Dichloroethene (75-35-4)	<2.0	2.0	0.078	ug/m³	1	"	"	"	"	
1,2,4-Trichlorobenzene (120-82-1)	<3.7	3.7	0.13	ug/m³	1	"	"	"	"	
1,2,4-Trimethylbenzene (95-63-6)	1.6	1.0	0.073	ug/m³	1	"	"	"	"	
1,2-Dibromoethane (106-93-4)	<3.8	3.8	0.16	ug/m³	1	"	"	"	"	
1,2-Dichlorobenzene (95-50-1)	<3.0	3.0	0.071	ug/m³	1	"	"	"	"	
1,2-Dichloroethane (107-06-2)	<2.0	2.0	0.055	ug/m³	1	"	"	"	"	
1,2-Dichloropropane (78-87-5)	<2.3	2.3	0.081	ug/m³	1	"	"	"	"	
1,3,5-Trimethylbenzene (108-67-8)	<1.0	1.0	0.11	ug/m³	1	"	"	"	"	
1,3-Butadiene (106-99-0)	<1.1	1.1	0.10	ug/m³	1	"	"	"	"	
1,3-Dichlorobenzene (541-73-1)	<3.0	3.0	0.14	ug/m³	1	"	"	"		
1,4-Dichlorobenzene (106-46-7)	<3.0	3.0	0.17	ug/m³	1	"	"	"	"	
2-Butanone (78-93-9)	8.4	1.5	0.078	ug/m³	1	"	"	"	"	



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Landmark EnvironmentalProject:TO-152042 West 98th StreetProject Number:CRCWork Order #: 1600183Bloomington, MN 55431Project Manager:Mr. Jason SkramstadDate Reported: 02/10/16

Analyte (CAS#)	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
LSG-8 (1600183-03) Air Received:0	1/13/16 12:50	Samp	led:01/12/1	6 11:20						
4-Ethyltoluene (622-96-8)	<2.5	2.5	0.11	ug/m³	1	B6A2114	01/20/16	01/21/16	TO-15(M)	
Acetone (67-64-1)	45	1.2	0.055	ug/m³	1	"	"	"	II .	
Benzene (71-43-2)	1.1	0.64	0.050	ug/m³	1	"	"	"	II .	
Benzyl chloride (100-44-7)	<2.6	2.6	0.073	ug/m³	1	"	"	"	II .	
Bromodichloromethane (75-27-4)	<3.4	3.4	0.13	ug/m³	1	"	"	"	II .	
Bromoform (75-25-2)	<5.2	5.2	0.13	ug/m³	1	"	"	"	II .	
Bromomethane (74-83-9)	<1.9	1.9	0.069	ug/m³	1	"	"	"	II .	
Carbon disulfide (75-15-0)	<1.6	1.6	0.070	ug/m³	1	"	"	"	"	
Carbon tetrachloride (56-23-5)	<3.1	3.1	0.087	ug/m³	1	"	"	"	"	
Chlorobenzene (108-90-7)	<2.3	2.3	0.080	ug/m³	1	"	"	"	"	
Chloroethane (75-00-3)	<1.3	1.3	0.037	ug/m³	1	"	"	•	"	
Chloroform (67-66-3)	<2.4	2.4	0.055	ug/m³	1	"	"		"	
Chloromethane (74-87-3)	<1.0	1.0	0.044	ug/m³	1	"	"		"	
cis-1,2-Dichloroethene (156-59-2)	<2.0	2.0	0.089	ug/m³	1	"	"	•	"	
cis-1,3-Dichloropropene (10061-01-5)	<2.3	2.3	0.12	ug/m³	1	"	"		"	
Cyclohexane (110-82-7)	<1.7	1.7	0.059	ug/m³	1	"	"		"	
Dibromochloromethane (124-48-1)	<4.3	4.3	0.16	ug/m³	1	"	"		"	
Dichlorodifluoromethane (75-71-8)	2.7	2.5	0.12	ug/m³	1	"	"		"	
Dichlorotetrafluoroethane (76-14-2)	<3.5	3.5	0.063	ug/m³	1	"	"		"	
Ethanol (64-17-5)	1200	56	4.1	ug/m³	60	"	"	01/21/16	"	
Ethyl acetate (141-78-6)	4.3	1.8	0.11	ug/m³	1	"	n .	01/21/16	II .	
Ethylbenzene (100-41-4)	1.7	0.87	0.082	ug/m³	1	"	n .	"	II .	
Hexachlorobutadiene (87-68-3)	<5.3	5.3	0.27	ug/m³	1	"	"		"	
sopropyl alcohol (67-63-0)	300	72	4.5	ug/m³	60	"	"	01/21/16	"	
n,p-Xylene (136777-61-2)	6.0	1.7	0.15	ug/m³	1	"	n .	01/21/16	ıı	
Methyl butyl ketone (591-78-6)	<2.0	2.0	0.12	ug/m³	1	"	"		"	
Methyl isobutyl ketone (108-10-1)	<2.0	2.0	0.11	ug/m³	1	"	"		"	
Methyl tert-butyl ether (1634-04-4)	<1.8	1.8	0.11	ug/m³	1	"	"		"	
Methylene chloride (75-09-2)	5.0	1.7	0.21	ug/m³	1	"	"		"	
Naphthalene (91-20-3)	<2.6	2.6	0.11	ug/m³	1	"	n .	"	ıı	
n-Heptane (142-82-5)	<2.0	2.0	0.078	ug/m³	1	"	"	"	"	
n-Hexane (110-54-3)	2.8	1.8	0.074	ug/m³	1	"	"	"	"	
o-Xylene (95-47-6)	1.9	0.87	0.096	ug/m³	1	"	"	"	"	
Propylene (115-07-1)	<0.86	0.86	0.027	ug/m³	1	"	"	"	"	
Styrene (100-42-5)	<2.1	2.1	0.096	ug/m³	1	"	"	"	п	



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Landmark EnvironmentalProject:TO-152042 West 98th StreetProject Number:CRCWork Order #: 1600183Bloomington, MN 55431Project Manager:Mr. Jason SkramstadDate Reported: 02/10/16

Analyte (CAS#)	Result	RL	MDL	Units	Services, Dilution	Batch	Prepared	Analyzed	Method	Notes
					Dilution	Dalti	i repareu	Allalyzeu	IVICUIOU	140162
LSG-8 (1600183-03) Air Received:01/	13/16 12:50	Samp	led:01/12/1	6 11:20						
Tetrachloroethene (127-18-4)	15	3.4	0.13	ug/m³	1	B6A2114	01/20/16	01/21/16	TO-15(M)	
Tetrahydrofuran (109-99-9)	5.1	1.5	0.038	ug/m³	1	"	"	"	"	
Toluene (108-88-3)	11	0.75	0.060	ug/m³	1	"	"	"	"	
trans-1,2-Dichloroethene (156-60-5)	<2.0	2.0	0.11	ug/m³	1	"	"	"	"	
trans-1,3-Dichloropropene (10061-02-6)	<2.3	2.3	0.070	ug/m³	1	"	"	"	"	
Trichloroethene (79-01-6)	<1.1	1.1	0.12	ug/m³	1	"	"	"	"	
Trichlorofluoromethane (75-69-4)	<2.8	2.8	0.048	ug/m³	1	"	"	"	"	
Trichlorotrifluoroethane (76-13-1)	<3.8	3.8	0.17	ug/m³	1	"	"	"	"	
Vinyl acetate (108-05-4)	<1.8	1.8	0.90	ug/m³	1	"	"	"	"	
Vinyl chloride (75-01-4)	<0.51	0.51	0.051	ug/m³	1	"	"	"	"	
LSG-9 (1600183-04) Air Received:01/	13/16 12:50	Samp	led:01/12/1	6 11:38						
1,1,1-Trichloroethane (71-55-6)	<2.7	2.7	0.044	ug/m³	1	B6A2114	01/20/16	01/21/16	TO-15(M)	
1,1,2,2-Tetrachloroethane (79-34-5)	<3.4	3.4	0.074	ug/m³	1	"	"	"	"	
1,1,2-Trichloroethane (79-00-5)	<2.7	2.7	0.11	ug/m³	1	"	"	"	"	
1,1-Dichloroethane (75-34-3)	<2.0	2.0	0.11	ug/m³	1	"	"	"	"	
1,1-Dichloroethene (75-35-4)	<2.0	2.0	0.078	ug/m³	1	"	"	"	"	
1,2,4-Trichlorobenzene (120-82-1)	<3.7	3.7	0.13	ug/m³	1	"	"	"	"	
1,2,4-Trimethylbenzene (95-63-6)	1.7	1.0	0.073	ug/m³	1	"	"	"	"	
1,2-Dibromoethane (106-93-4)	<3.8	3.8	0.16	ug/m³	1	"	"	"	"	
1,2-Dichlorobenzene (95-50-1)	<3.0	3.0	0.071	ug/m³	1	"	"	"	"	
1,2-Dichloroethane (107-06-2)	<2.0	2.0	0.055	ug/m³	1	"	"	"	"	
1,2-Dichloropropane (78-87-5)	<2.3	2.3	0.081	ug/m³	1	"	"	"	m .	
1,3,5-Trimethylbenzene (108-67-8)	<1.0	1.0	0.11	ug/m³	1	"	"	"	m .	
1,3-Butadiene (106-99-0)	<1.1	1.1	0.10	ug/m³	1	"	"	"	m .	
1,3-Dichlorobenzene (541-73-1)	<3.0	3.0	0.14	ug/m³	1	"	"	"	"	
1,4-Dichlorobenzene (106-46-7)	<3.0	3.0	0.17	ug/m³	1	"	"	"	п	
2-Butanone (78-93-9)	8.2	1.5	0.078	ug/m³	1	"	"	"	"	
4-Ethyltoluene (622-96-8)	<2.5	2.5	0.11	ug/m³	1	"	"	"	п	
Acetone (67-64-1)	33	1.2	0.055	ug/m³	1	"	"	"	п	
Benzene (71-43-2)	0.96	0.64	0.050	ug/m³	1	"	"	"	"	
Benzyl chloride (100-44-7)	<2.6	2.6	0.073	ug/m³	1	"	"	"	"	
Bromodichloromethane (75-27-4)	<3.4	3.4	0.13	ug/m³	1	"	"	"	п	
Bromoform (75-25-2)	<5.2	5.2	0.13	ug/m³	1	"	"	"	п	
Bromomethane (74-83-9)	<1.9	1.9	0.069	ug/m³	1	"	"	"	II .	
Carbon disulfide (75-15-0)	<1.6	1.6	0.070	ug/m³	1	"				



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Analyte (CAS#)	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
LSG-9 (1600183-04) Air Received:01	/13/16 12:50	Sampl	ed:01/12/1	6 11:38						
Carbon tetrachloride (56-23-5)	<3.1	3.1	0.087	ug/m³	1	B6A2114	01/20/16	01/21/16	TO-15(M)	
Chlorobenzene (108-90-7)	<2.3	2.3	0.080	ug/m³	1	"	"	"	"	
Chloroethane (75-00-3)	<1.3	1.3	0.037	ug/m³	1	"	"	"	"	
Chloroform (67-66-3)	<2.4	2.4	0.055	ug/m³	1	"	"	"	"	
Chloromethane (74-87-3)	<1.0	1.0	0.044	ug/m³	1	"	"	"	"	
cis-1,2-Dichloroethene (156-59-2)	<2.0	2.0	0.089	ug/m³	1	"	"	"	"	
cis-1,3-Dichloropropene (10061-01-5)	<2.3	2.3	0.12	ug/m³	1	"	"	"	"	
Cyclohexane (110-82-7)	<1.7	1.7	0.059	ug/m³	1	"	"	"	"	
Dibromochloromethane (124-48-1)	<4.3	4.3	0.16	ug/m³	1	"	n .	n .	"	
Dichlorodifluoromethane (75-71-8)	2.7	2.5	0.12	ug/m³	1	"	"	"	"	
Dichlorotetrafluoroethane (76-14-2)	<3.5	3.5	0.063	ug/m³	1	"	"	n .	"	
Ethanol (64-17-5)	890	56	4.1	ug/m³	60	"	"	01/21/16	"	
Ethyl acetate (141-78-6)	4.0	1.8	0.11	ug/m³	1	"	"	01/21/16	"	
Ethylbenzene (100-41-4)	1.7	0.87	0.082	ug/m³	1	"	n .	n .	"	
Hexachlorobutadiene (87-68-3)	<5.3	5.3	0.27	ug/m³	1	"	"	"	"	
sopropyl alcohol (67-63-0)	250	72	4.5	ug/m³	60	"	"	01/21/16	"	
m,p-Xylene (136777-61-2)	6.4	1.7	0.15	ug/m³	1	"	"	01/21/16	"	
Methyl butyl ketone (591-78-6)	<2.0	2.0	0.12	ug/m³	1	"	"	n .	"	
Methyl isobutyl ketone (108-10-1)	<2.0	2.0	0.11	ug/m³	1	"	n .	n .	"	
Methyl tert-butyl ether (1634-04-4)	<1.8	1.8	0.11	ug/m³	1	"	n .	n .	"	
Methylene chloride (75-09-2)	<1.7	1.7	0.21	ug/m³	1	"	"	"	"	
Naphthalene (91-20-3)	<2.6	2.6	0.11	ug/m³	1	"	"	"	"	
n-Heptane (142-82-5)	<2.0	2.0	0.078	ug/m³	1	"	"	"	"	
n-Hexane (110-54-3)	<1.8	1.8	0.074	ug/m³	1	"	"	n .	"	
o-Xylene (95-47-6)	1.9	0.87	0.096	ug/m³	1	"	"	"	"	
Propylene (115-07-1)	<0.86	0.86	0.027	ug/m³	1	"	"	n .	"	
Styrene (100-42-5)	<2.1	2.1	0.096	ug/m³	1	"	"	n .	"	
Tetrachloroethene (127-18-4)	15	3.4	0.13	ug/m³	1	"	"	n .	"	
Tetrahydrofuran (109-99-9)	5.4	1.5	0.038	ug/m³	1	"	"	n .	"	
Toluene (108-88-3)	12	0.75	0.060	ug/m³	1	"	"	n .	"	
trans-1,2-Dichloroethene (156-60-5)	<2.0	2.0	0.11	ug/m³	1	"	"	"	"	
trans-1,3-Dichloropropene (10061-02-6)	<2.3	2.3	0.070	ug/m³	1	"	"	"	"	
Trichloroethene (79-01-6)	<1.1	1.1	0.12	ug/m³	1	"	"	"	"	
Trichlorofluoromethane (75-69-4)	<2.8	2.8	0.048	ug/m³	1	"	"	"	"	
Trichlorotrifluoroethane (76-13-1)	61	3.8	0.17	ug/m³	1	"	"	"	"	



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Analyte (CAS#)	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
LSG-9 (1600183-04) Air Received:0	1/13/16 12:50	Samp	led:01/12/1	6 11:38						
Vinyl acetate (108-05-4)	<1.8	1.8	0.90	ug/m³	1	B6A2114	01/20/16	01/21/16	TO-15(M)	
Vinyl chloride (75-01-4)	<0.51	0.51	0.051	ug/m³	1	"	"	"	"	
LSG-10 (1600183-05) Air Received:	01/13/16 12:5	0 Samı	pled:01/12/	16 11:52						
1,1,1-Trichloroethane (71-55-6)	<2.7	2.7	0.044	ug/m³	1	B6A2114	01/20/16	01/21/16	TO-15(M)	
1,1,2,2-Tetrachloroethane (79-34-5)	<3.4	3.4	0.074	ug/m³	1	"	"	"	"	
1,1,2-Trichloroethane (79-00-5)	<2.7	2.7	0.11	ug/m³	1	"	"	"	"	
1,1-Dichloroethane (75-34-3)	<2.0	2.0	0.11	ug/m³	1	"	"	"	"	
1,1-Dichloroethene (75-35-4)	<2.0	2.0	0.078	ug/m³	1	"	"	"	"	
1,2,4-Trichlorobenzene (120-82-1)	<3.7	3.7	0.13	ug/m³	1	"	"	"	"	
1,2,4-Trimethylbenzene (95-63-6)	2.1	1.0	0.073	ug/m³	1	"	"	"	"	
1,2-Dibromoethane (106-93-4)	<3.8	3.8	0.16	ug/m³	1	"	"	"	"	
1,2-Dichlorobenzene (95-50-1)	<3.0	3.0	0.071	ug/m³	1	"	"	"	"	
1,2-Dichloroethane (107-06-2)	<2.0	2.0	0.055	ug/m³	1	"	"	"	"	
1,2-Dichloropropane (78-87-5)	<2.3	2.3	0.081	ug/m³	1	n n	"	"	"	
1,3,5-Trimethylbenzene (108-67-8)	<1.0	1.0	0.11	ug/m³	1	n n	n .	"	"	
1,3-Butadiene (106-99-0)	<1.1	1.1	0.10	ug/m³	1	"	"	n .	"	
1,3-Dichlorobenzene (541-73-1)	<3.0	3.0	0.14	ug/m³	1	"	"	n .	"	
1,4-Dichlorobenzene (106-46-7)	<3.0	3.0	0.17	ug/m³	1	"	"	n .	"	
2-Butanone (78-93-9)	6.5	1.5	0.078	ug/m³	1	n n	n .	"	"	
4-Ethyltoluene (622-96-8)	<2.5	2.5	0.11	ug/m³	1	"	"	n .	"	
Acetone (67-64-1)	28	1.2	0.055	ug/m³	1	n n	m .	"	"	
Benzene (71-43-2)	0.84	0.64	0.050	ug/m³	1	n n	m .	"	"	
Benzyl chloride (100-44-7)	<2.6	2.6	0.073	ug/m³	1	n n	"	"	"	
Bromodichloromethane (75-27-4)	<3.4	3.4	0.13	ug/m³	1	n n	"	"	"	
3romoform (75-25-2)	<5.2	5.2	0.13	ug/m³	1	"	"	n .	"	
Bromomethane (74-83-9)	<1.9	1.9	0.069	ug/m³	1	"	"	n .	"	
Carbon disulfide (75-15-0)	<1.6	1.6	0.070	ug/m³	1	"	"	n .	"	
Carbon tetrachloride (56-23-5)	<3.1	3.1	0.087	ug/m³	1	"	"	"	"	
Chlorobenzene (108-90-7)	<2.3	2.3	0.080	ug/m³	1	n n	m .	"	"	
Chloroethane (75-00-3)	<1.3	1.3	0.037	ug/m³	1	n n	m .	"	"	
Chloroform (67-66-3)	<2.4	2.4	0.055	ug/m³	1	n n	m .	"	"	
Chloromethane (74-87-3)	<1.0	1.0	0.044	ug/m³	1	n n	m .	"	"	
cis-1,2-Dichloroethene (156-59-2)	<2.0	2.0	0.089	ug/m³	1	"	"	"	"	
cis-1,3-Dichloropropene (10061-01-5)	<2.3	2.3	0.12	ug/m³	1	"	"	"	"	
Cyclohexane (110-82-7)	<1.7	1.7	0.059	ug/m³	1	"	"	"		



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Analyte (CAS#)	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
LSG-10 (1600183-05) Air Received:0	1/13/16 12:5	i0 Sam	pled:01/12/	16 11:52						
Dibromochloromethane (124-48-1)	<4.3	4.3	0.16	ug/m³	1	B6A2114	01/20/16	01/21/16	TO-15(M)	
Dichlorodifluoromethane (75-71-8)	2.8	2.5	0.12	ug/m³	1	"	n .	"	"	
Dichlorotetrafluoroethane (76-14-2)	<3.5	3.5	0.063	ug/m³	1	"	"	"	"	
Ethanol (64-17-5)	590	28	2.0	ug/m³	30	"	"	01/21/16	"	
Ethyl acetate (141-78-6)	3.3	1.8	0.11	ug/m³	1	"	"	01/21/16	"	
Ethylbenzene (100-41-4)	2.1	0.87	0.082	ug/m³	1	"	"	"	"	
Hexachlorobutadiene (87-68-3)	<5.3	5.3	0.27	ug/m³	1	"	"	"	"	
Isopropyl alcohol (67-63-0)	170	36	2.2	ug/m³	30	"	"	01/21/16	"	
m,p-Xylene (136777-61-2)	7.4	1.7	0.15	ug/m³	1	"	"	01/21/16	"	
Methyl butyl ketone (591-78-6)	<2.0	2.0	0.12	ug/m³	1	"	"	"	"	
Methyl isobutyl ketone (108-10-1)	<2.0	2.0	0.11	ug/m³	1	"	"	"	"	
Methyl tert-butyl ether (1634-04-4)	<1.8	1.8	0.11	ug/m³	1	"	"	"	"	
Methylene chloride (75-09-2)	<1.7	1.7	0.21	ug/m³	1	"	"	"	"	
Naphthalene (91-20-3)	<2.6	2.6	0.11	ug/m³	1	"	"	"	"	
n-Heptane (142-82-5)	<2.0	2.0	0.078	ug/m³	1	"	"	"	"	
n-Hexane (110-54-3)	3.5	1.8	0.074	ug/m³	1	"	"	"	"	
o-Xylene (95-47-6)	2.1	0.87	0.096	ug/m³	1	"	"	"	"	
Propylene (115-07-1)	<0.86	0.86	0.027	ug/m³	1	"	"	"	"	
Styrene (100-42-5)	<2.1	2.1	0.096	ug/m³	1	"	"	"	"	
Tetrachloroethene (127-18-4)	16	3.4	0.13	ug/m³	1	"	"	"	"	
Tetrahydrofuran (109-99-9)	4.8	1.5	0.038	ug/m³	1	"	"	"	"	
Toluene (108-88-3)	12	0.75	0.060	ug/m³	1	"	"	"	"	
trans-1,2-Dichloroethene (156-60-5)	<2.0	2.0	0.11	ug/m³	1	"	"	"	"	
trans-1,3-Dichloropropene (10061-02-6)	<2.3	2.3	0.070	ug/m³	1	"	"	"	"	
Trichloroethene (79-01-6)	<1.1	1.1	0.12	ug/m³	1	"	"	"	"	
Trichlorofluoromethane (75-69-4)	<2.8	2.8	0.048	ug/m³	1	"	"	"	"	
Trichlorotrifluoroethane (76-13-1)	13	3.8	0.17	ug/m³	1	"	"	"	"	
Vinyl acetate (108-05-4)	<1.8	1.8	0.90	ug/m³	1	"	"	"	"	
Vinyl chloride (75-01-4)	<0.51	0.51	0.051	ug/m³	1	"	"	"	"	
SP-1 (ES) (1600183-06) Air Received	1:01/13/16 12	2:50 Sa	mpled:01/1	2/16 12:58						
1,1,1-Trichloroethane (71-55-6)	<2.7	2.7	0.044	ug/m³	1	B6A2114	01/20/16	01/21/16	TO-15(M)	
1,1,2,2-Tetrachloroethane (79-34-5)	<3.4	3.4	0.074	ug/m³	1	"	"	"	"	
1,1,2-Trichloroethane (79-00-5)	<2.7	2.7	0.11	ug/m³	1	"	"	"	"	
1,1-Dichloroethane (75-34-3)	<2.0	2.0	0.11	ug/m³	1	"	"	"	"	
1,1-Dichloroethene (75-35-4)	<2.0	2.0	0.078	ug/m³	1	"	"	"	· ·	



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Landmark EnvironmentalProject:TO-152042 West 98th StreetProject Number:CRCWork Order #: 1600183Bloomington, MN 55431Project Manager:Mr. Jason SkramstadDate Reported: 02/10/16

Analyte (CAS#)	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SP-1 (ES) (1600183-06) Air Receive	d:01/13/16 12	2:50 Sa	mpled:01/1	2/16 12:58						
1,2,4-Trichlorobenzene (120-82-1)	<3.7	3.7	0.13	ug/m³	1	B6A2114	01/20/16	01/21/16	TO-15(M)	
1,2,4-Trimethylbenzene (95-63-6)	1.5	1.0	0.073	ug/m³	1	"	"	"	"	
1,2-Dibromoethane (106-93-4)	<3.8	3.8	0.16	ug/m³	1	"	"	"	"	
1,2-Dichlorobenzene (95-50-1)	<3.0	3.0	0.071	ug/m³	1	"	"	"	"	
1,2-Dichloroethane (107-06-2)	<2.0	2.0	0.055	ug/m³	1	"	"	"	"	
1,2-Dichloropropane (78-87-5)	<2.3	2.3	0.081	ug/m³	1	"	"	"	"	
1,3,5-Trimethylbenzene (108-67-8)	<1.0	1.0	0.11	ug/m³	1	"	"	"	"	
1,3-Butadiene (106-99-0)	<1.1	1.1	0.10	ug/m³	1	"	"	"	"	
1,3-Dichlorobenzene (541-73-1)	<3.0	3.0	0.14	ug/m³	1	"	"	"	"	
1,4-Dichlorobenzene (106-46-7)	<3.0	3.0	0.17	ug/m³	1	"	"	"	"	
2-Butanone (78-93-9)	3.8	1.5	0.078	ug/m³	1	"	II .	"	II .	
4-Ethyltoluene (622-96-8)	<2.5	2.5	0.11	ug/m³	1	"	II .	"	II .	
Acetone (67-64-1)	35	1.2	0.055	ug/m³	1	"	II .	"	II .	
Benzene (71-43-2)	0.91	0.64	0.050	ug/m³	1	"	"	"	n .	
Benzyl chloride (100-44-7)	<2.6	2.6	0.073	ug/m³	1	"	"	"	u u	
Bromodichloromethane (75-27-4)	<3.4	3.4	0.13	ug/m³	1	"	"	"	u u	
Bromoform (75-25-2)	<5.2	5.2	0.13	ug/m³	1	"	"	"	u u	
Bromomethane (74-83-9)	<1.9	1.9	0.069	ug/m³	1	"	"	"	n .	
Carbon disulfide (75-15-0)	2.8	1.6	0.070	ug/m³	1	"	II .	"	II .	
Carbon tetrachloride (56-23-5)	<3.1	3.1	0.087	ug/m³	1	"	"	"	u u	
Chlorobenzene (108-90-7)	<2.3	2.3	0.080	ug/m³	1	"	"	"	u u	
Chloroethane (75-00-3)	<1.3	1.3	0.037	ug/m³	1	"	"	"	u u	
Chloroform (67-66-3)	<2.4	2.4	0.055	ug/m³	1	"	"	"	"	
Chloromethane (74-87-3)	<1.0	1.0	0.044	ug/m³	1	"	"	"	u u	
cis-1,2-Dichloroethene (156-59-2)	<2.0	2.0	0.089	ug/m³	1	"	"	"	"	
cis-1,3-Dichloropropene (10061-01-5)	<2.3	2.3	0.12	ug/m³	1	"	"	"	"	
Cyclohexane (110-82-7)	<1.7	1.7	0.059	ug/m³	1	"	"	"	"	
Dibromochloromethane (124-48-1)	<4.3	4.3	0.16	ug/m³	1	"	"	"	"	
Dichlorodifluoromethane (75-71-8)	3.7	2.5	0.12	ug/m³	1	"	"	"	"	
Dichlorotetrafluoroethane (76-14-2)	<3.5	3.5	0.063	ug/m³	1	"	"	"	"	
Ethanol (64-17-5)	320	19	1.4	ug/m³	20	"	"	01/22/16	"	
Ethyl acetate (141-78-6)	2.4	1.8	0.11	ug/m³	1	"	"	01/21/16	"	
Ethylbenzene (100-41-4)	1.5	0.87	0.082	ug/m³	1	"	"	"	п	
Hexachlorobutadiene (87-68-3)	<5.3	5.3	0.27	ug/m³	1	"	"	"	п	
Isopropyl alcohol (67-63-0)	110	24	1.5	ug/m³	20	,	"	01/22/16		



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Landmark EnvironmentalProject:TO-152042 West 98th StreetProject Number:CRCWork Order #: 1600183Bloomington, MN 55431Project Manager:Mr. Jason SkramstadDate Reported: 02/10/16

Analyte (CAS#)	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SP-1 (ES) (1600183-06) Air Receive	d:01/13/16 1	2:50 Sa	mpled:01/1	2/16 12:58						
m,p-Xylene (136777-61-2)	5.2	1.7	0.15	ug/m³	1	B6A2114	01/20/16	01/21/16	TO-15(M)	
Methyl butyl ketone (591-78-6)	<2.0	2.0	0.12	ug/m³	1	"	"	"	"	
Methyl isobutyl ketone (108-10-1)	<2.0	2.0	0.11	ug/m³	1	"	"	"	II .	
Methyl tert-butyl ether (1634-04-4)	<1.8	1.8	0.11	ug/m³	1	"	"	"	"	
Methylene chloride (75-09-2)	51	1.7	0.21	ug/m³	1	"	"	n .	"	
Naphthalene (91-20-3)	<2.6	2.6	0.11	ug/m³	1	"	"	"	"	
n-Heptane (142-82-5)	<2.0	2.0	0.078	ug/m³	1	"	"	n .	"	
n-Hexane (110-54-3)	18	1.8	0.074	ug/m³	1	"	"	n .	"	
o-Xylene (95-47-6)	1.6	0.87	0.096	ug/m³	1	"	"	n .	"	
Propylene (115-07-1)	<0.86	0.86	0.027	ug/m³	1	"	"	"	II .	
Styrene (100-42-5)	<2.1	2.1	0.096	ug/m³	1	"	"	"	"	
Tetrachloroethene (127-18-4)	130	3.4	0.13	ug/m³	1	"	"	"	"	
Tetrahydrofuran (109-99-9)	2.9	1.5	0.038	ug/m³	1	"	"	"	"	
Toluene (108-88-3)	9.5	0.75	0.060	ug/m³	1	"	"	"	"	
trans-1,2-Dichloroethene (156-60-5)	<2.0	2.0	0.11	ug/m³	1	"	"	"	"	
trans-1,3-Dichloropropene (10061-02-6)	<2.3	2.3	0.070	ug/m³	1	"	"	"	"	
Trichloroethene (79-01-6)	<1.1	1.1	0.12	ug/m³	1	"	"	"	"	
Trichlorofluoromethane (75-69-4)	<2.8	2.8	0.048	ug/m³	1	"	"	"	"	
Trichlorotrifluoroethane (76-13-1)	640	76	3.4	ug/m³	20	"	"	01/22/16	m .	
Vinyl acetate (108-05-4)	<1.8	1.8	0.90	ug/m³	1	"	"	01/21/16	m .	
Vinyl chloride (75-01-4)	<0.51	0.51	0.051	ug/m³	1	"	"	"	m .	
SP-2 (SSL) (1600183-07) Air Receiv	red:01/13/16	12:50 S	ampled:01	/12/16 12:4	2					
1,1,1-Trichloroethane (71-55-6)	<2.7	2.7	0.044	ug/m³	1	B6A2114	01/20/16	01/21/16	TO-15(M)	
1,1,2,2-Tetrachloroethane (79-34-5)	<3.4	3.4	0.074	ug/m³	1	"	"	"	"	
1,1,2-Trichloroethane (79-00-5)	<2.7	2.7	0.11	ug/m³	1	"	"	n .	"	
1,1-Dichloroethane (75-34-3)	<2.0	2.0	0.11	ug/m³	1	"	"	n .	"	
1,1-Dichloroethene (75-35-4)	<2.0	2.0	0.078	ug/m³	1	"	"	n .	"	
1,2,4-Trichlorobenzene (120-82-1)	<3.7	3.7	0.13	ug/m³	1	"	"	"	"	
1,2,4-Trimethylbenzene (95-63-6)	<1.0	1.0	0.073	ug/m³	1	"	"	"	"	
1,2-Dibromoethane (106-93-4)	<3.8	3.8	0.16	ug/m³	1	"	"	"	"	
1,2-Dichlorobenzene (95-50-1)	<3.0	3.0	0.071	ug/m³	1	"	"	"	"	
1,2-Dichloroethane (107-06-2)	<2.0	2.0	0.055	ug/m³	1	"	"	"	"	
1,2-Dichloropropane (78-87-5)	<2.3	2.3	0.081	ug/m³	1	"	"	"	"	
1,3,5-Trimethylbenzene (108-67-8)	<1.0	1.0	0.11	ug/m³	1	"	"	"	"	
1,3-Butadiene (106-99-0)	<1.1	1.1	0.10	ug/m³	1					



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Analyte (CAS#)	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SP-2 (SSL) (1600183-07) Air Recei	ved:01/13/16 1	12:50	Sampled:01	/12/16 12:4	12					
1,3-Dichlorobenzene (541-73-1)	<3.0	3.0	0.14	ug/m³	1	B6A2114	01/20/16	01/21/16	TO-15(M)	
1,4-Dichlorobenzene (106-46-7)	<3.0	3.0	0.17	ug/m³	1	"	"	"	"	
2-Butanone (78-93-9)	2.7	1.5	0.078	ug/m³	1	"	"	"	"	
4-Ethyltoluene (622-96-8)	<2.5	2.5	0.11	ug/m³	1	"	"	"	"	
Acetone (67-64-1)	17	1.2	0.055	ug/m³	1	"	"	"	"	
Benzene (71-43-2)	0.75	0.64	0.050	ug/m³	1	"	"	"	"	
Benzyl chloride (100-44-7)	<2.6	2.6	0.073	ug/m³	1	"	"	"	"	
Bromodichloromethane (75-27-4)	<3.4	3.4	0.13	ug/m³	1	"	"	"	"	
Bromoform (75-25-2)	<5.2	5.2	0.13	ug/m³	1	"	"	"	"	
Bromomethane (74-83-9)	<1.9	1.9	0.069	ug/m³	1	"	"	"	"	
Carbon disulfide (75-15-0)	<1.6	1.6	0.070	ug/m³	1	"	"	"	"	
Carbon tetrachloride (56-23-5)	<3.1	3.1	0.087	ug/m³	1	"	"	"	"	
Chlorobenzene (108-90-7)	<2.3	2.3	0.080	ug/m³	1	"	"	"	"	
Chloroethane (75-00-3)	<1.3	1.3	0.037	ug/m³	1	"	"	"	"	
Chloroform (67-66-3)	<2.4	2.4	0.055	ug/m³	1	"	"	"	"	
Chloromethane (74-87-3)	<1.0	1.0	0.044	ug/m³	1	"	"	"	"	
cis-1,2-Dichloroethene (156-59-2)	<2.0	2.0	0.089	ug/m³	1	"	"	"	"	
cis-1,3-Dichloropropene (10061-01-5)	<2.3	2.3	0.12	ug/m³	1	"	"	"	"	
Cyclohexane (110-82-7)	<1.7	1.7	0.059	ug/m³	1	"	"	"	"	
Dibromochloromethane (124-48-1)	<4.3	4.3	0.16	ug/m³	1	"	"	"	"	
Dichlorodifluoromethane (75-71-8)	2.8	2.5	0.12	ug/m³	1	"	"	"	"	
Dichlorotetrafluoroethane (76-14-2)	<3.5	3.5	0.063	ug/m³	1	"	"	"	"	
Ethanol (64-17-5)	480	19	1.4	ug/m³	20	"	"	01/22/16	"	
Ethyl acetate (141-78-6)	<1.8	1.8	0.11	ug/m³	1	"	"	01/21/16	"	
Ethylbenzene (100-41-4)	1.6	0.87	0.082	ug/m³	1	"	"	"	"	
Hexachlorobutadiene (87-68-3)	<5.3	5.3	0.27	ug/m³	1	"	"	"	"	
Isopropyl alcohol (67-63-0)	130	24	1.5	ug/m³	20	"	"	01/22/16	"	
m,p-Xylene (136777-61-2)	5.4	1.7	0.15	ug/m³	1	"	"	01/21/16	"	
Methyl butyl ketone (591-78-6)	<2.0	2.0	0.12	ug/m³	1	"	"	"	"	
Methyl isobutyl ketone (108-10-1)	<2.0	2.0	0.11	ug/m³	1	"	"	"	"	
Methyl tert-butyl ether (1634-04-4)	<1.8	1.8	0.11	ug/m³	1	"	"	"	"	
Methylene chloride (75-09-2)	<1.7	1.7	0.21	ug/m³	1	"	"	"	"	
Naphthalene (91-20-3)	<2.6	2.6	0.11	ug/m³	1	"	"	"	"	
n-Heptane (142-82-5)	<2.0	2.0	0.078	ug/m³	1	"	"	"	"	
n-Hexane (110-54-3)	<1.8	1.8	0.074	ug/m³	1	"	n	II .	II .	



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Analyte (CAS#)	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Note
SP-2 (SSL) (1600183-07) Air Receiv	ed:01/13/16	12:50	Sampled:01	/12/16 12:42	2					
o-Xylene (95-47-6)	1.4	0.87	0.096	ug/m³	1	B6A2114	01/20/16	01/21/16	TO-15(M)	
Propylene (115-07-1)	<0.86	0.86	0.027	ug/m³	1	"	"	"	"	
Styrene (100-42-5)	<2.1	2.1	0.096	ug/m³	1	"	"	"	"	
Tetrachloroethene (127-18-4)	14	3.4	0.13	ug/m³	1	"	"	"	"	
Tetrahydrofuran (109-99-9)	2.6	1.5	0.038	ug/m³	1	"	"	"	"	
Toluene (108-88-3)	4.5	0.75	0.060	ug/m³	1	"	"	"	"	
trans-1,2-Dichloroethene (156-60-5)	2.1	2.0	0.11	ug/m³	1	"	"	"	"	
trans-1,3-Dichloropropene (10061-02-6)	<2.3	2.3	0.070	ug/m³	1	"	"	"	"	
Trichloroethene (79-01-6)	<1.1	1.1	0.12	ug/m³	1	"	"	"	"	
Trichlorofluoromethane (75-69-4)	<2.8	2.8	0.048	ug/m³	1	"	"	"	"	
Trichlorotrifluoroethane (76-13-1)	<3.8	3.8	0.17	ug/m³	1	"	"	"	"	
Vinyl acetate (108-05-4)	<1.8	1.8	0.90	ug/m³	1	"	"	"	"	
/inyl chloride (75-01-4)	<0.51	0.51	0.051	ug/m³	1	II .	"	n .	· ·	



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Landmark Environmental Project: TO-15 2042 West 98th Street Project Number: CRC Work Order #: 1600183 Bloomington, MN 55431 Project Manager: Mr. Jason Skramstad Date Reported: 02/10/16

VOC - AIR - Quality Control Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
Batch B6A2114 - TO-15											
Blank (B6A2114-BLK1)					Prepared	d & Analyze	ed: 01/20/	16			
1,1,1-Trichloroethane	< 2.7	2.7	0.044	ug/m³							
1,1,2,2-Tetrachloroethane	< 3.4	3.4	0.074	ug/m³							
1,1,2-Trichloroethane	< 2.7	2.7	0.11	ug/m³							
1,1-Dichloroethane	< 2.0	2.0	0.11	ug/m³							
1,1-Dichloroethene	< 2.0	2.0	0.078	ug/m³							
1,2,4-Trichlorobenzene	< 3.7	3.7	0.13	ug/m³							
1,2,4-Trimethylbenzene	< 1.0	1.0	0.073	ug/m³							
1,2-Dibromoethane	< 3.8	3.8	0.16	ug/m³							
1,2-Dichlorobenzene	< 3.0	3.0	0.071	ug/m³							
1,2-Dichloroethane	< 2.0	2.0	0.055	ug/m³							
1,2-Dichloropropane	< 2.3	2.3	0.081	ug/m³							
1,3,5-Trimethylbenzene	< 1.0	1.0	0.11	ug/m³							
1,3-Butadiene	< 1.1	1.1	0.10	ug/m³							
1,3-Dichlorobenzene	< 3.0	3.0	0.14	ug/m³							
1,4-Dichlorobenzene	< 3.0	3.0	0.17	ug/m³							
2-Butanone	< 1.5	1.5	0.078	ug/m³							
4-Ethyltoluene	< 2.5	2.5	0.11	ug/m³							
Acetone	< 1.2	1.2	0.055	ug/m³							
Benzene	< 0.64	0.64	0.050	ug/m³							
Benzyl chloride	< 2.6	2.6	0.073	ug/m³							
Bromodichloromethane	< 3.4	3.4	0.13	ug/m³							
Bromoform	< 5.2	5.2	0.13	ug/m³							
Bromomethane	< 1.9	1.9	0.069	ug/m³							
Carbon disulfide	< 1.6	1.6	0.070	ug/m³							
Carbon tetrachloride	< 3.1	3.1	0.087	ug/m³							
Chlorobenzene	< 2.3	2.3	0.080	ug/m³							
Chloroethane	< 1.3	1.3	0.037	ug/m³							
Chloroform	< 2.4	2.4	0.055	ug/m³							
Chloromethane	< 1.0	1.0	0.044	ug/m³							
cis-1,2-Dichloroethene	< 2.0	2.0	0.089	ug/m³							
cis-1,3-Dichloropropene	< 2.3	2.3	0.12	ug/m³							
Cyclohexane	< 1.7	1.7	0.059	ug/m³							
Dibromochloromethane	< 4.3	4.3	0.16	ug/m³							
Dichlorodifluoromethane	< 2.5	2.5	0.12	ug/m³							
Dichlorotetrafluoroethane	< 3.5	3.5	0.063	ug/m³							
Ethanol	< 0.94	0.94	0.068	ug/m³							
Ethyl acetate	< 1.8	1.8	0.11	ug/m³							
Ethylbenzene	< 0.87	0.87	0.082	ug/m³							
Hexachlorobutadiene	< 5.3	5.3	0.27	ug/m³							
Isopropyl alcohol	< 1.2	1.2	0.075	ug/m³							

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VOC - AIR - Quality Control Legend Technical Services, Inc.

					Cnilco	Course		0/ DEC		0/ DDD	
Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
Batch B6A2114 - TO-15											
Blank (B6A2114-BLK1)					Prepared	l & Analyze	ed: 01/20/1	16			
m,p-Xylene	< 1.7	1.7	0.15	ug/m³							
Methyl butyl ketone	< 2.0	2.0	0.12	ug/m³							
Methyl isobutyl ketone	< 2.0	2.0	0.11	ug/m³							
Methyl tert-butyl ether	< 1.8	1.8	0.11	ug/m³							
Methylene chloride	< 1.7	1.7	0.21	ug/m³							
Naphthalene	< 2.6	2.6	0.11	ug/m³							
n-Heptane	< 2.0	2.0	0.078	ug/m³							
n-Hexane	< 1.8	1.8	0.074	ug/m³							
o-Xylene	< 0.87	0.87	0.096	ug/m³							
Propylene	< 0.86	0.86	0.027	ug/m³							
Styrene	< 2.1	2.1	0.096	ug/m³							
Tetrachloroethene	< 3.4	3.4	0.13	ug/m³							
Tetrahydrofuran	< 1.5	1.5	0.038	ug/m³							
Toluene	< 0.75	0.75	0.060	ug/m³							
trans-1,2-Dichloroethene	< 2.0	2.0	0.11	ug/m³							
trans-1,3-Dichloropropene	< 2.3	2.3	0.070	ug/m³							
Trichloroethene	< 1.1	1.1	0.12	ug/m³							
Trichlorofluoromethane	< 2.8	2.8	0.048	ug/m³							
Trichlorotrifluoroethane	< 3.8	3.8	0.17	ug/m³							
Vinyl acetate	< 1.8	1.8	0.90	ug/m³							
Vinyl chloride	< 0.51	0.51	0.051	ug/m³							
LCS (B6A2114-BS1)					Prepared	l & Analyze	ed: 01/20/1	16			
1,1,1-Trichloroethane	52.3	2.7	0.044	ug/m³	54.6		95.9	70-130			
1,1,2,2-Tetrachloroethane	68.4	3.4	0.074	ug/m³	68.6		99.7	70-130			
1,1,2-Trichloroethane	52.4	2.7	0.11	ug/m³	54.6		96.0	70-130			
1,1-Dichloroethane	41.7	2.0	0.11	ug/m³	40.5		103	70-130			
1,1-Dichloroethene	42.8	2.0	0.078	ug/m³	39.6		108	70-130			
1,2,4-Trichlorobenzene	78.7	3.7	0.13	ug/m³	74.2		106	70-130			
1,2,4-Trimethylbenzene	49.2	1.0	0.073	ug/m³	49.2		100	70-130			
1,2-Dibromoethane	74.6	3.8	0.16	ug/m³	76.8		97.1	70-130			
1,2-Dichlorobenzene	60.1	3.0	0.071	ug/m³	60.1		100	70-130			
1,2-Dichloroethane	40.4	2.0	0.055	ug/m³	40.5		99.8	70-130			
1,2-Dichloropropane	44.7	2.3	0.081	ug/m³	46.2		96.8	70-130			
1,3,5-Trimethylbenzene	47.3	1.0	0.11	ug/m³	49.2		96.3	70-130			
1,3-Butadiene	23.5	1.1	0.10	ug/m³	22.1		106	70-130			
1,3-Dichlorobenzene	61.9	3.0	0.14	ug/m³	60.1		103	70-130			
1,4-Dichlorobenzene	62.5	3.0	0.17	ug/m³	60.1		104	70-130			
2-Butanone	28.9	1.5	0.078	ug/m³	29.5		98.0	70-130			
4-Ethyltoluene	48.4	2.5	0.11	ug/m³	49.2		98.4	70-130			

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Landmark Environmental Project: TO-15 2042 West 98th Street Project Number: CRC Work Order #: 1600183 Bloomington, MN 55431 Project Manager: Mr. Jason Skramstad Date Reported: 02/10/16

VOC - AIR - Quality Control Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
Batch B6A2114 - TO-15											
LCS (B6A2114-BS1)					Prepared	l & Analyze	ed: 01/20/	16			
Acetone	28.5	1.2	0.055	ug/m³	23.8	, =	120	70-130			
Benzene	29.0	0.64	0.050	ug/m³	31.9		90.8	70-130			
Benzyl chloride	61.1	2.6	0.073	ug/m³	51.8		118	70-130			
Bromodichloromethane	69.7	3.4	0.13	ug/m³	67.0		104	70-130			
Bromoform	111	5.2	0.13	ug/m³	103		107	70-130			
Bromomethane	40.8	1.9	0.069	ug/m³	38.8		105	70-130			
Carbon disulfide	33.0	1.6	0.070	ug/m³	31.1		106	70-130			
Carbon tetrachloride	62.9	3.1	0.087	ug/m³	62.9		100	70-130			
Chlorobenzene	45.5	2.3	0.080	ug/m³	46.0		98.8	70-130			
Chloroethane	26.4	1.3	0.037	ug/m³	26.4		100	70-130			
Chloroform	45.8	2.4	0.055	ug/m³	48.8		93.8	70-130			
Chloromethane	20.0	1.0	0.044	ug/m³	20.6		96.9	70-130			
cis-1,2-Dichloroethene	40.4	2.0	0.089	ug/m³	39.6		102	70-130			
cis-1,3-Dichloropropene	43.1	2.3	0.12	ug/m³	45.4		95.0	70-130			
Cyclohexane	32.8	1.7	0.059	ug/m³	34.4		95.3	70-130			
Dibromochloromethane	86.9	4.3	0.16	ug/m³	85.2		102	70-130			
Dichlorodifluoromethane	47.9	2.5	0.12	ug/m³	49.5		96.9	70-130			
Dichlorotetrafluoroethane	72.0	3.5	0.063	ug/m³	69.9		103	70-130			
Ethanol	19.8	0.94	0.068	ug/m³	18.8		105	70-130			
Ethyl acetate	33.5	1.8	0.11	ug/m³	36.0		93.0	70-130			
Ethylbenzene	43.4	0.87	0.082	ug/m³	43.4		100	70-130			
Hexachlorobutadiene	96.8	5.3	0.27	ug/m³	107		90.8	70-130			
Isopropyl alcohol	27.0	1.2	0.075	ug/m³	24.6		110	70-130			
m,p-Xylene	84.7	1.7	0.15	ug/m³	86.8		97.5	70-130			
Methyl butyl ketone	43.0	2.0	0.12	ug/m³	41.0		105	70-130			
Methyl isobutyl ketone	36.0	2.0	0.11	ug/m³	41.0		87.9	70-130			
Methyl tert-butyl ether	38.2	1.8	0.11	ug/m³	36.1		106	70-130			
Methylene chloride	39.9	1.7	0.21	ug/m³	34.7		115	70-130			
Naphthalene	54.0	2.6	0.11	ug/m³	55.0		98.1	70-130			
n-Heptane	39.4	2.0	0.078	ug/m³	41.0		96.1	70-130			
n-Hexane	38.1	1.8	0.074	ug/m³	35.2		108	70-130			
o-Xylene	41.8	0.87	0.096	ug/m³	43.4		96.3	70-130			
Propylene	18.8	0.86	0.027	ug/m³	17.2		109	70-130			
Styrene	42.3	2.1	0.096	ug/m³	42.6		99.4	70-130			
Tetrachloroethene	63.5	3.4	0.13	ug/m³	67.8		93.6	70-130			
Tetrahydrofuran	33.3	1.5	0.038	ug/m³	29.5		113	70-130			
Toluene	36.8	0.75	0.060	ug/m³	37.7		97.6	70-130			
trans-1,2-Dichloroethene	42.4	2.0	0.11	ug/m³	39.6		107	70-130			
trans-1,3-Dichloropropene	44.6	2.3	0.070	ug/m³	45.4		98.2	70-130			
Trichloroethene	52.7	1.1	0.12	ug/m³	53.7		98.0	70-130			



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Landmark EnvironmentalProject:TO-152042 West 98th StreetProject Number:CRCWork Order #:1600183Bloomington, MN 55431Project Manager:Mr. Jason SkramstadDate Reported:02/10/16

VOC - AIR - Quality Control Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
Batch B6A2114 - TO-15									, <u>-</u>		
LCS (B6A2114-BS1)					Prepared	ł & Analyze	ed: 01/20/1	16			
Trichlorofluoromethane	61.8	2.8	0.048	ug/m³	56.2	a Analyzo	110	70-130			
Trichlorotrifluoroethane	80.5	3.8	0.17	ug/m³	76.6		105	70-130			
Vinyl acetate	41.5	1.8	0.17	ug/m³	35.2		118	70-130			
Vinyl acetate Vinyl chloride	26.6	0.51	0.90	ug/m³	25.6		104	70-130			
•						1 0 Analys					
Duplicate (B6A2114-DUP1) 1,1,1-Trichloroethane	< 2.7	2.7	0.044		Prepared	l & Analyze <2.7	ea: 01/20/1	16	NA	25	
	< 3.4			ug/m³		<3.4			NA	25 25	
1,1,2,2-Tetrachloroethane 1,1,2-Trichloroethane	< 2.7	3.4 2.7	0.074 0.11	ug/m³ ug/m³		<3.4 <2.7			NA	25 25	
1,1-Dichloroethane	< 2.0	2.7	0.11	ug/m³		<2. <i>1</i> <2.0			NA	25 25	
1,1-Dichloroethene	< 2.0	2.0	0.11	ug/m³		<2.0 <2.0			NA	25 25	
1,2,4-Trichlorobenzene	< 3.7	3.7	0.078	ug/m³		<3.7			NA	25 25	
1,2,4-Trimethylbenzene	8.01	1.0	0.13	ug/m³		<3.7 8.49			5.81	25 25	
1,2-Dibromoethane	< 3.8	3.8	0.16	ug/m³		<3.8			NA	25	
1,2-Distribution of the state o	< 3.0	3.0	0.10	ug/m³		<3.0			NA	25	
1,2-Dichloroethane	< 2.0	2.0	0.055	ug/m³		<2.0			NA	25	
1,2-Dichloropropane	< 2.3	2.3	0.081	ug/m³		<2.3			NA	25	
1,3,5-Trimethylbenzene	2.08	1.0	0.11	ug/m³		2.20			5.59	25	
1,3-Butadiene	< 1.1	1.1	0.10	ug/m³		<1.1			NA	25	
1,3-Dichlorobenzene	< 3.0	3.0	0.14	ug/m³		<3.0			NA	25	
1,4-Dichlorobenzene	< 3.0	3.0	0.17	ug/m³		<3.0			NA	25	
2-Butanone	3.56	1.5	0.078	ug/m³		4.07			13.3	25	
4-Ethyltoluene	< 2.5	2.5	0.11	ug/m³		<2.5			NA	25	
Acetone	15.7	1.2	0.055	ug/m³		17.4			10.6	25	
Benzene	< 0.64	0.64	0.050	ug/m³		<0.64			NA	25	
Benzyl chloride	< 2.6	2.6	0.073	ug/m³		<2.6			NA	25	
Bromodichloromethane	8.28	3.4	0.13	ug/m³		8.02			3.18	25	
Bromoform	< 5.2	5.2	0.13	ug/m³		<5.2			NA	25	
Bromomethane	< 1.9	1.9	0.069	ug/m³		<1.9			NA	25	
Carbon disulfide	< 1.6	1.6	0.070	ug/m³		<1.6			NA	25	
Carbon tetrachloride	< 3.1	3.1	0.087	ug/m³		<3.1			NA	25	
Chlorobenzene	< 2.3	2.3	0.080	ug/m³		<2.3			NA	25	
Chloroethane	< 1.3	1.3	0.037	ug/m³		<1.3			NA	25	
Chloroform	29.4	2.4	0.055	ug/m³		30.2			2.69	25	
Chloromethane	< 1.0	1.0	0.044	ug/m³		<1.0			NA	25	
cis-1,2-Dichloroethene	< 2.0	2.0	0.089	ug/m³		<2.0			NA	25	
cis-1,3-Dichloropropene	< 2.3	2.3	0.12	ug/m³		<2.3			NA	25	
Cyclohexane	< 1.7	1.7	0.059	ug/m³		<1.7			NA	25	
Dibromochloromethane	< 4.3	4.3	0.16	ug/m³		<4.3			NA	25	
Dichlorodifluoromethane	2.23	2.5	0.12	ug/m³		2.78			22.1	25	



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Landmark EnvironmentalProject:TO-152042 West 98th StreetProject Number:CRCWork Order #: 1600183Bloomington, MN 55431Project Manager:Mr. Jason SkramstadDate Reported: 02/10/16

VOC - AIR - Quality Control Legend Technical Services, Inc.

Analysis	D !	D.	MDI	1.1-21	Spike	Source	0/ DEC	%REC	0/ DDD	%RPD	Mata
Analyte	Result	RL	MDL	Units	Level	Result	%REC	Limits	%RPD	Limit	Notes
Batch B6A2114 - TO-15											
Duplicate (B6A2114-DUP1)	•	Source: 1	600286-0)1	Prepared	ł & Analyze	ed: 01/20/1	16			
Dichlorotetrafluoroethane	< 3.5	3.5	0.063	ug/m³		<3.5			NA	25	
Ethanol	2.46	0.94	0.068	ug/m³		2.73			10.4	25	
Ethyl acetate	< 1.8	1.8	0.11	ug/m³		<1.8			NA	25	
Ethylbenzene	2.35	0.87	0.082	ug/m³		2.55			8.43	25	
Hexachlorobutadiene	< 5.3	5.3	0.27	ug/m³		<5.3			NA	25	
Isopropyl alcohol	3.08	1.2	0.075	ug/m³		3.18			3.07	25	
m,p-Xylene	10.1	1.7	0.15	ug/m³		10.9			7.49	25	
Methyl butyl ketone	< 2.0	2.0	0.12	ug/m³		<2.0			NA	25	
Methyl isobutyl ketone	< 2.0	2.0	0.11	ug/m³		<2.0			NA	25	
Methyl tert-butyl ether	< 1.8	1.8	0.11	ug/m³		<1.8			NA	25	
Methylene chloride	< 1.7	1.7	0.21	ug/m³		<1.7			NA	25	
Naphthalene	3.21	2.6	0.11	ug/m³		3.28			2.17	25	
n-Heptane	< 2.0	2.0	0.078	ug/m³		<2.0			NA	25	
n-Hexane	< 1.8	1.8	0.074	ug/m³		<1.8			NA	25	
o-Xylene	4.57	0.87	0.096	ug/m³		4.90			6.97	25	
Propylene	< 0.86	0.86	0.027	ug/m³		<0.86			NA	25	
Styrene	< 2.1	2.1	0.096	ug/m³		<2.1			NA	25	
Tetrachloroethene	4.92	3.4	0.13	ug/m³		4.73			3.89	25	
Tetrahydrofuran	< 1.5	1.5	0.038	ug/m³		<1.5			NA	25	
Toluene	6.14	0.75	0.060	ug/m³		6.21			1.16	25	
trans-1,2-Dichloroethene	< 2.0	2.0	0.11	ug/m³		<2.0			NA	25	
trans-1,3-Dichloropropene	< 2.3	2.3	0.070	ug/m³		<2.3			NA	25	
Trichloroethene	< 1.1	1.1	0.12	ug/m³		<1.1			NA	25	
Trichlorofluoromethane	< 2.8	2.8	0.048	ug/m³		<2.8			NA	25	
Trichlorotrifluoroethane	< 3.8	3.8	0.17	ug/m³		<3.8			NA	25	
Vinyl acetate	< 1.8	1.8	0.90	ug/m³		<1.8			NA	25	
Vinyl chloride	< 0.51	0.51	0.051	ug/m³		<0.51			NA	25	



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Landmark Environmental Project: TO-15 2042 West 98th Street Project Number: CRC Work Order #: 1600183 Bloomington, MN 55431 Project Manager: Mr. Jason Skramstad Date Reported: 02/10/16

VOC - AIR - Quality Control Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
Batch B6A2216 - TO-15											
Blank (B6A2216-BLK1)					Prepared	ł & Analyze	ed: 01/21/	16			
1,1,1-Trichloroethane	< 2.7	2.7	0.044	ug/m³	-	•					
1,1,2,2-Tetrachloroethane	< 3.4	3.4	0.074	ug/m³							
1,1,2-Trichloroethane	< 2.7	2.7	0.11	ug/m³							
1,1-Dichloroethane	< 2.0	2.0	0.11	ug/m³							
1,1-Dichloroethene	< 2.0	2.0	0.078	ug/m³							
1,2,4-Trichlorobenzene	< 3.7	3.7	0.13	ug/m³							
1,2,4-Trimethylbenzene	< 1.0	1.0	0.073	ug/m³							
1,2-Dibromoethane	< 3.8	3.8	0.16	ug/m³							
1,2-Dichlorobenzene	< 3.0	3.0	0.071	ug/m³							
1,2-Dichloroethane	< 2.0	2.0	0.055	ug/m³							
1,2-Dichloropropane	< 2.3	2.3	0.081	ug/m³							
1,3,5-Trimethylbenzene	< 1.0	1.0	0.11	ug/m³							
1,3-Butadiene	< 1.1	1.1	0.10	ug/m³							
1,3-Dichlorobenzene	< 3.0	3.0	0.14	ug/m³							
1,4-Dichlorobenzene	< 3.0	3.0	0.17	ug/m³							
2-Butanone	< 1.5	1.5	0.078	ug/m³							
4-Ethyltoluene	< 2.5	2.5	0.11	ug/m³							
Acetone	< 1.2	1.2	0.055	ug/m³							
Benzene	< 0.64	0.64	0.050	ug/m³							
Benzyl chloride	< 2.6	2.6	0.073	ug/m³							
Bromodichloromethane	< 3.4	3.4	0.13	ug/m³							
Bromoform	< 5.2	5.2	0.13	ug/m³							
Bromomethane	< 1.9	1.9	0.069	ug/m³							
Carbon disulfide	< 1.6	1.6	0.070	ug/m³							
Carbon tetrachloride	< 3.1	3.1	0.087	ug/m³							
Chlorobenzene	< 2.3	2.3	0.080	ug/m³							
Chloroethane	< 1.3	1.3	0.037	ug/m³							
Chloroform	< 2.4	2.4	0.055	ug/m³							
Chloromethane	< 1.0	1.0	0.044	ug/m³							
cis-1,2-Dichloroethene	< 2.0	2.0	0.089	ug/m³							
cis-1,3-Dichloropropene	< 2.3	2.3	0.12	ug/m³							
Cyclohexane	< 1.7	1.7	0.059	ug/m³							
Dibromochloromethane	< 4.3	4.3	0.16	ug/m³							
Dichlorodifluoromethane	< 2.5	2.5	0.12	ug/m³							
Dichlorotetrafluoroethane	< 3.5	3.5	0.063	ug/m³							
Ethanol	< 0.94	0.94	0.068	ug/m³							
Ethyl acetate	< 1.8	1.8	0.11	ug/m³							
Ethylbenzene	< 0.87	0.87	0.082	ug/m³							
Hexachlorobutadiene	< 5.3	5.3	0.27	ug/m³							
Isopropyl alcohol	< 1.2	1.2	0.075	ug/m³							



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Landmark Environmental Project: TO-15 2042 West 98th Street Project Number: CRC Work Order #: 1600183 Bloomington, MN 55431 Project Manager: Mr. Jason Skramstad Date Reported: 02/10/16

VOC - AIR - Quality Control Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
Batch B6A2216 - TO-15											
Blank (B6A2216-BLK1)					Prepared	l & Analyze	ed: 01/21/1	6			
m,p-Xylene	< 1.7	1.7	0.15	ug/m³							
Methyl butyl ketone	< 2.0	2.0	0.12	ug/m³							
Methyl isobutyl ketone	< 2.0	2.0	0.11	ug/m³							
Methyl tert-butyl ether	< 1.8	1.8	0.11	ug/m³							
Methylene chloride	< 1.7	1.7	0.21	ug/m³							
Naphthalene	< 2.6	2.6	0.11	ug/m³							
n-Heptane	< 2.0	2.0	0.078	ug/m³							
n-Hexane	< 1.8	1.8	0.074	ug/m³							
o-Xylene	< 0.87	0.87	0.096	ug/m³							
Propylene	< 0.86	0.86	0.027	ug/m³							
Styrene	< 2.1	2.1	0.096	ug/m³							
Tetrachloroethene	< 3.4	3.4	0.13	ug/m³							
Tetrahydrofuran	< 1.5	1.5	0.038	ug/m³							
Toluene	< 0.75	0.75	0.060	ug/m³							
trans-1,2-Dichloroethene	< 2.0	2.0	0.11	ug/m³							
trans-1,3-Dichloropropene	< 2.3	2.3	0.070	ug/m³							
Trichloroethene	< 1.1	1.1	0.12	ug/m³							
Trichlorofluoromethane	< 2.8	2.8	0.048	ug/m³							
Trichlorotrifluoroethane	< 3.8	3.8	0.17	ug/m³							
Vinyl acetate	< 1.8	1.8	0.90	ug/m³							
Vinyl chloride	< 0.51	0.51	0.051	ug/m³							
LCS (B6A2216-BS1)					Prepared	l & Analyze	ed: 01/21/1	6			
1,1,1-Trichloroethane	58.9	2.7	0.044	ug/m³	54.6		108	70-130			
1,1,2,2-Tetrachloroethane	67.2	3.4	0.074	ug/m³	68.6		97.9	70-130			
1,1,2-Trichloroethane	54.0	2.7	0.11	ug/m³	54.6		99.0	70-130			
1,1-Dichloroethane	39.8	2.0	0.11	ug/m³	40.5		98.3	70-130			
1,1-Dichloroethene	39.5	2.0	0.078	ug/m³	39.6		99.6	70-130			
1,2,4-Trichlorobenzene	74.2	3.7	0.13	ug/m³	74.2		100	70-130			
1,2,4-Trimethylbenzene	48.2	1.0	0.073	ug/m³	49.2		98.0	70-130			
1,2-Dibromoethane	76.5	3.8	0.16	ug/m³	76.8		99.5	70-130			
1,2-Dichlorobenzene	56.6	3.0	0.071	ug/m³	60.1		94.2	70-130			
1,2-Dichloroethane	42.1	2.0	0.055	ug/m³	40.5		104	70-130			
1,2-Dichloropropane	44.2	2.3	0.081	ug/m³	46.2		95.7	70-130			
1,3,5-Trimethylbenzene	48.3	1.0	0.11	ug/m³	49.2		98.2	70-130			
1,3-Butadiene	21.7	1.1	0.10	ug/m³	22.1		98.1	70-130			
1,3-Dichlorobenzene	58.3	3.0	0.14	ug/m³	60.1		96.9	70-130			
1,4-Dichlorobenzene	59.3	3.0	0.17	ug/m³	60.1		98.7	70-130			
2-Butanone	27.8	1.5	0.078	ug/m³	29.5		94.4	70-130			
4-Ethyltoluene	48.8	2.5	0.11	ug/m³	49.2		99.3	70-130			

Fax: 651-642-1239

Landmark Environmental Project: TO-15 2042 West 98th Street Project Number: CRC Work Order #: 1600183 Bloomington, MN 55431 Project Manager: Mr. Jason Skramstad Date Reported: 02/10/16

VOC - AIR - Quality Control Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
Batch B6A2216 - TO-15											
LCS (B6A2216-BS1)					Prepared	ł & Analyze	ed: 01/21/	16			
Acetone	27.6	1.2	0.055	ug/m³	23.8	,	116	70-130			
Benzene	30.3	0.64	0.050	ug/m³	31.9		94.8	70-130			
Benzyl chloride	63.7	2.6	0.073	ug/m³	51.8		123	70-130			
Bromodichloromethane	71.0	3.4	0.13	ug/m³	67.0		106	70-130			
Bromoform	116	5.2	0.13	ug/m³	103		112	70-130			
Bromomethane	38.6	1.9	0.069	ug/m³	38.8		99.5	70-130			
Carbon disulfide	30.7	1.6	0.070	ug/m³	31.1		98.6	70-130			
Carbon tetrachloride	70.5	3.1	0.087	ug/m³	62.9		112	70-130			
Chlorobenzene	44.7	2.3	0.080	ug/m³	46.0		97.1	70-130			
Chloroethane	24.9	1.3	0.037	ug/m³	26.4		94.4	70-130			
Chloroform	49.3	2.4	0.055	ug/m³	48.8		101	70-130			
Chloromethane	19.1	1.0	0.044	ug/m³	20.6		92.5	70-130			
cis-1,2-Dichloroethene	39.1	2.0	0.089	ug/m³	39.6		98.7	70-130			
cis-1,3-Dichloropropene	45.8	2.3	0.12	ug/m³	45.4		101	70-130			
Cyclohexane	35.1	1.7	0.059	ug/m³	34.4		102	70-130			
Dibromochloromethane	93.7	4.3	0.16	ug/m³	85.2		110	70-130			
Dichlorodifluoromethane	51.4	2.5	0.12	ug/m³	49.5		104	70-130			
Dichlorotetrafluoroethane	74.8	3.5	0.063	ug/m³	69.9		107	70-130			
Ethanol	20.0	0.94	0.068	ug/m³	18.8		106	70-130			
Ethyl acetate	32.3	1.8	0.11	ug/m³	36.0		89.6	70-130			
Ethylbenzene	43.9	0.87	0.082	ug/m³	43.4		101	70-130			
Hexachlorobutadiene	93.9	5.3	0.27	ug/m³	107		88.0	70-130			
Isopropyl alcohol	26.3	1.2	0.075	ug/m³	24.6		107	70-130			
m,p-Xylene	83.4	1.7	0.15	ug/m³	86.8		96.0	70-130			
Methyl butyl ketone	42.6	2.0	0.12	ug/m³	41.0		104	70-130			
Methyl isobutyl ketone	38.3	2.0	0.11	ug/m³	41.0		93.6	70-130			
Methyl tert-butyl ether	36.1	1.8	0.11	ug/m³	36.1		100	70-130			
Methylene chloride	35.4	1.7	0.21	ug/m³	34.7		102	70-130			
Naphthalene	51.5	2.6	0.11	ug/m³	55.0		93.6	70-130			
n-Heptane	41.0	2.0	0.078	ug/m³	41.0		100	70-130			
n-Hexane	36.0	1.8	0.074	ug/m³	35.2		102	70-130			
o-Xylene	41.6	0.87	0.096	ug/m³	43.4		95.8	70-130			
Propylene	19.4	0.86	0.027	ug/m³	17.2		113	70-130			
Styrene	42.1	2.1	0.096	ug/m³	42.6		98.9	70-130			
Tetrachloroethene	64.6	3.4	0.13	ug/m³	67.8		95.2	70-130			
Tetrahydrofuran	34.2	1.5	0.038	ug/m³	29.5		116	70-130			
Toluene	36.7	0.75	0.060	ug/m³	37.7		97.5	70-130			
trans-1,2-Dichloroethene	38.7	2.0	0.11	ug/m³	39.6		97.7	70-130			
trans-1,3-Dichloropropene	48.6	2.3	0.070	ug/m³	45.4		107	70-130			
Trichloroethene	53.5	1.1	0.12	ug/m³	53.7		99.6	70-130			

Legend Technical Services, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Fax: 651-642-1239

Landmark EnvironmentalProject:TO-152042 West 98th StreetProject Number:CRCWork Order #:1600183Bloomington, MN 55431Project Manager:Mr. Jason SkramstadDate Reported:02/10/16

VOC - AIR - Quality Control Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
Batch B6A2216 - TO-15											
LCS (B6A2216-BS1)					Prepared	l & Analyze	ed: 01/21/1	6			
Trichlorofluoromethane	59.6	2.8	0.048	ug/m³	56.2	-	106	70-130			
Trichlorotrifluoroethane	73.7	3.8	0.17	ug/m³	76.6		96.2	70-130			
Vinyl acetate	43.0	1.8	0.90	ug/m³	35.2		122	70-130			
Vinyl chloride	24.6	0.51	0.051	ug/m³	25.6		96.4	70-130			
Duplicate (B6A2216-DUP1)	,	Source: 1	600305-0)1	Prepared	I: 01/21/16	Analyzed	l: 01/22/16			
1,1,1-Trichloroethane	< 2.7	2.7	0.044	ug/m³		<2.7			NA	25	
1,1,2,2-Tetrachloroethane	< 3.4	3.4	0.074	ug/m³		<3.4			NA	25	
1,1,2-Trichloroethane	< 2.7	2.7	0.11	ug/m³		<2.7			NA	25	
I,1-Dichloroethane	< 2.0	2.0	0.11	ug/m³		<2.0			NA	25	
,1-Dichloroethene	< 2.0	2.0	0.078	ug/m³		<2.0			NA	25	
,2,4-Trichlorobenzene	< 3.7	3.7	0.13	ug/m³		<3.7			NA	25	
,2,4-Trimethylbenzene	< 1.0	1.0	0.073	ug/m³		<1.0			NA	25	
,2-Dibromoethane	< 3.8	3.8	0.16	ug/m³		<3.8			NA	25	
,2-Dichlorobenzene	< 3.0	3.0	0.071	ug/m³		<3.0			NA	25	
,2-Dichloroethane	< 2.0	2.0	0.055	ug/m³		<2.0			NA	25	
,2-Dichloropropane	< 2.3	2.3	0.081	ug/m³		<2.3			NA	25	
,3,5-Trimethylbenzene	< 1.0	1.0	0.11	ug/m³		<1.0			NA	25	
,3-Butadiene	< 1.1	1.1	0.10	ug/m³		<1.1			NA	25	
,3-Dichlorobenzene	< 3.0	3.0	0.14	ug/m³		<3.0			NA	25	
,4-Dichlorobenzene	< 3.0	3.0	0.17	ug/m³		<3.0			NA	25	
-Butanone	< 1.5	1.5	0.078	ug/m³		<1.5			NA	25	
-Ethyltoluene	< 2.5	2.5	0.11	ug/m³		<2.5			NA	25	
Acetone	8.76	1.2	0.055	ug/m³		8.80			0.529	25	
Benzene	0.807	0.64	0.050	ug/m³		0.821			1.76	25	
Benzyl chloride	< 2.6	2.6	0.073	ug/m³		<2.6			NA	25	
Bromodichloromethane	< 3.4	3.4	0.13	ug/m³		<3.4			NA	25	
Bromoform	< 5.2	5.2	0.13	ug/m³		<5.2			NA	25	
Bromomethane	< 1.9	1.9	0.069	ug/m³		<1.9			NA	25	
Carbon disulfide	< 1.6	1.6	0.070	ug/m³		<1.6			NA	25	
Carbon tetrachloride	< 3.1	3.1	0.087	ug/m³		<3.1			NA	25	
Chlorobenzene	< 2.3	2.3	0.080	ug/m³		<2.3			NA	25	
Chloroethane	< 1.3	1.3	0.037	ug/m³		<1.3			NA	25	
Chloroform	< 2.4	2.4	0.055	ug/m³		<2.4			NA	25	
Chloromethane	0.990	1.0	0.044	ug/m³		1.11			11.1	25	
is-1,2-Dichloroethene	< 2.0	2.0	0.089	ug/m³		<2.0			NA	25	
sis-1,3-Dichloropropene	< 2.3	2.3	0.12	ug/m³		<2.3			NA	25	
Cyclohexane	< 1.7	1.7	0.059	ug/m³		<1.7			NA	25	
Dibromochloromethane	< 4.3	4.3	0.16	ug/m³		<4.3			NA	25	
Dichlorodifluoromethane	2.78	2.5	0.12	ug/m³		2.98			6.93	25	



Fax: 651-642-1239

Landmark EnvironmentalProject:TO-152042 West 98th StreetProject Number:CRCWork Order #:1600183Bloomington, MN 55431Project Manager:Mr. Jason SkramstadDate Reported:02/10/16

VOC - AIR - Quality Control Legend Technical Services, Inc.

					Spike	Source		%REC		%RPD	
Analyte	Result	RL	MDL	Units	Level	Result	%REC	Limits	%RPD	Limit	Notes
Batch B6A2216 - TO-15											
Duplicate (B6A2216-DUP1)	•	Source: 1	600305-0	1	Prepared	l: 01/21/16	Analyzed	I: 01/22/16	;		
Dichlorotetrafluoroethane	< 3.5	3.5	0.063	ug/m³		<3.5			NA	25	
Ethanol	25.7	0.94	0.068	ug/m³		25.9			0.624	25	
Ethyl acetate	< 1.8	1.8	0.11	ug/m³		<1.8			NA	25	
Ethylbenzene	< 0.87	0.87	0.082	ug/m³		<0.87			NA	25	
Hexachlorobutadiene	< 5.3	5.3	0.27	ug/m³		<5.3			NA	25	
Isopropyl alcohol	10.1	1.2	0.075	ug/m³		10.8			6.52	25	
m,p-Xylene	< 1.7	1.7	0.15	ug/m³		<1.7			NA	25	
Methyl butyl ketone	< 2.0	2.0	0.12	ug/m³		<2.0			NA	25	
Methyl isobutyl ketone	< 2.0	2.0	0.11	ug/m³		<2.0			NA	25	
Methyl tert-butyl ether	< 1.8	1.8	0.11	ug/m³		<1.8			NA	25	
Methylene chloride	1.97	1.7	0.21	ug/m³		2.30			15.4	25	
Naphthalene	< 2.6	2.6	0.11	ug/m³		<2.6			NA	25	
n-Heptane	< 2.0	2.0	0.078	ug/m³		<2.0			NA	25	
n-Hexane	< 1.8	1.8	0.074	ug/m³		<1.8			NA	25	
o-Xylene	< 0.87	0.87	0.096	ug/m³		<0.87			NA	25	
Propylene	< 0.86	0.86	0.027	ug/m³		<0.86			NA	25	
Styrene	< 2.1	2.1	0.096	ug/m³		<2.1			NA	25	
Tetrachloroethene	< 3.4	3.4	0.13	ug/m³		<3.4			NA	25	
Tetrahydrofuran	< 1.5	1.5	0.038	ug/m³		<1.5			NA	25	
Toluene	0.841	0.75	0.060	ug/m³		0.891			5.86	25	
trans-1,2-Dichloroethene	< 2.0	2.0	0.11	ug/m³		<2.0			NA	25	
trans-1,3-Dichloropropene	< 2.3	2.3	0.070	ug/m³		<2.3			NA	25	
Trichloroethene	< 1.1	1.1	0.12	ug/m³		<1.1			NA	25	
Trichlorofluoromethane	< 2.8	2.8	0.048	ug/m³		<2.8			NA	25	
Trichlorotrifluoroethane	< 3.8	3.8	0.17	ug/m³		<3.8			NA	25	
Vinyl acetate	< 1.8	1.8	0.90	ug/m³		<1.8			NA	25	
Vinyl chloride	< 0.51	0.51	0.051	ug/m³		<0.51			NA	25	



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Landmark Environmental Project: TO-15 2042 West 98th Street Project Number: CRC Work Order #: 1600183 Bloomington, MN 55431 Project Manager: Mr. Jason Skramstad Date Reported: 02/10/16

Notes and Definitions

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

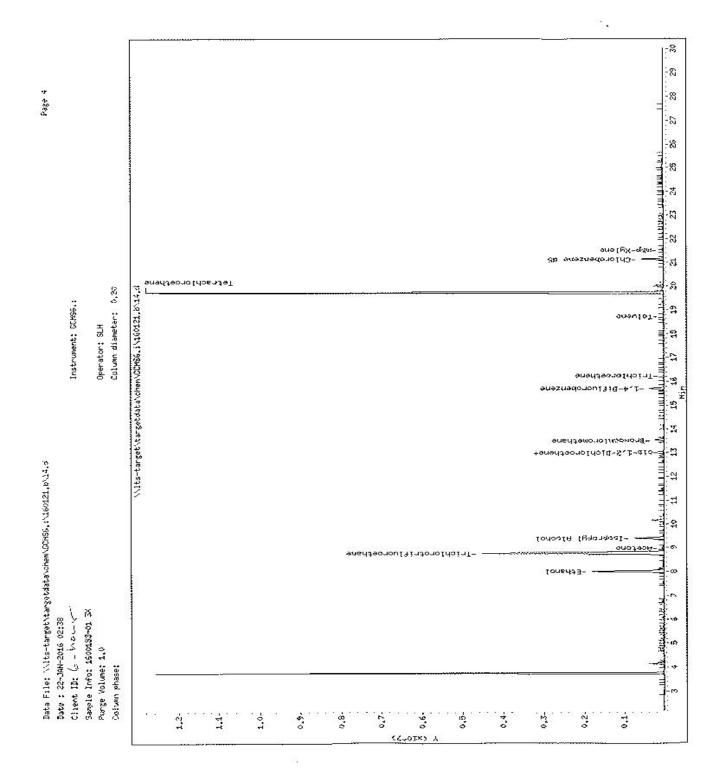
LCS Laboratory Control Spike = Blank Spike (BS) = Laboratory Fortified Blank (LFB)

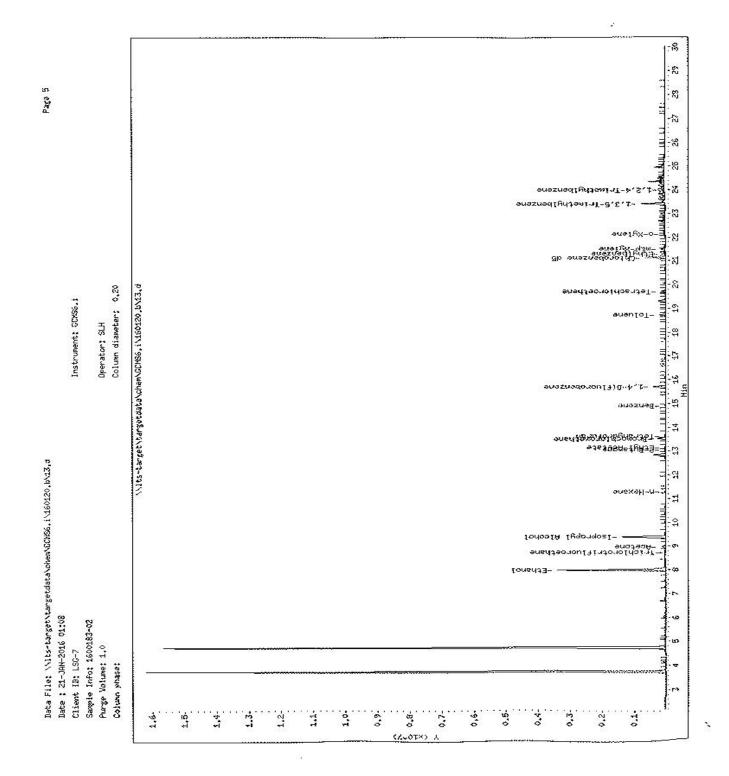
88 Empire Drive

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

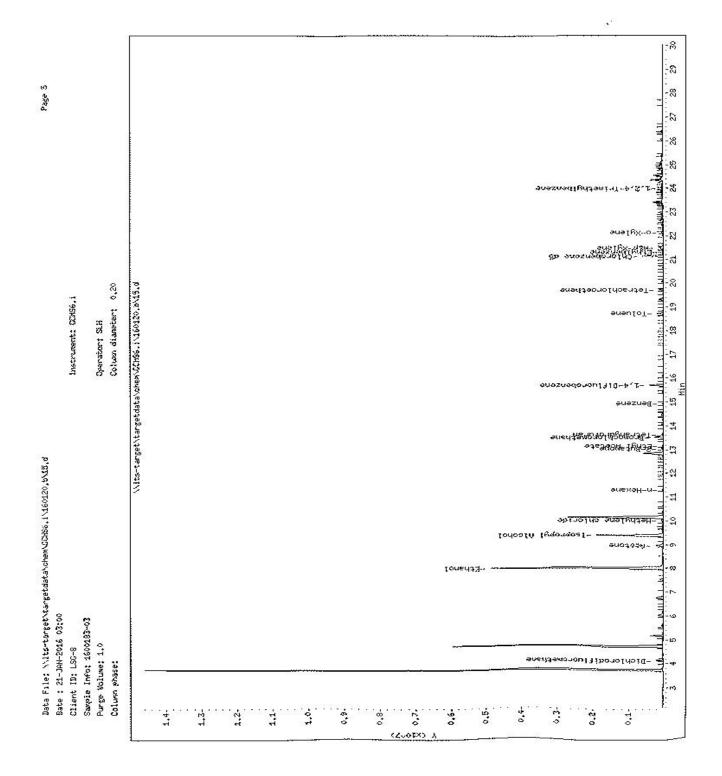
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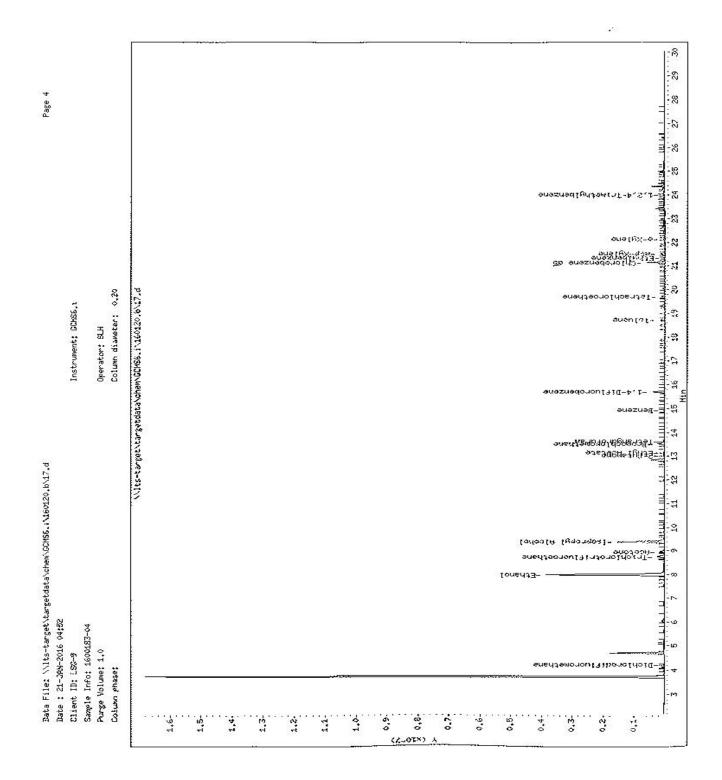




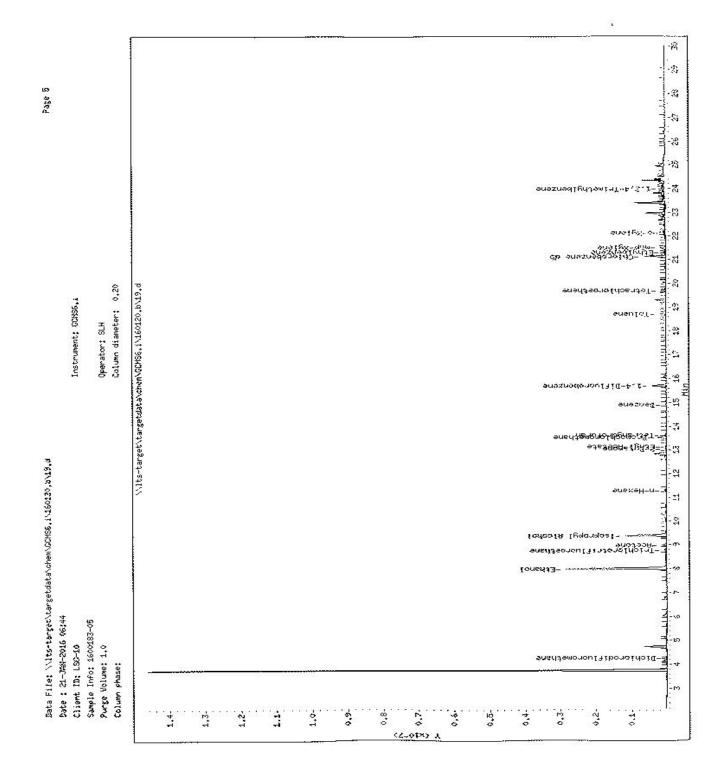


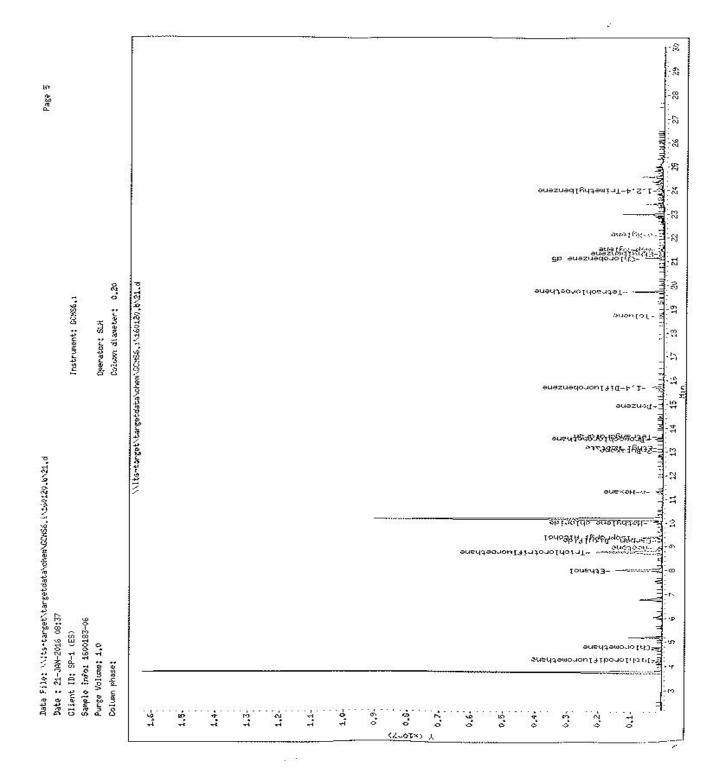




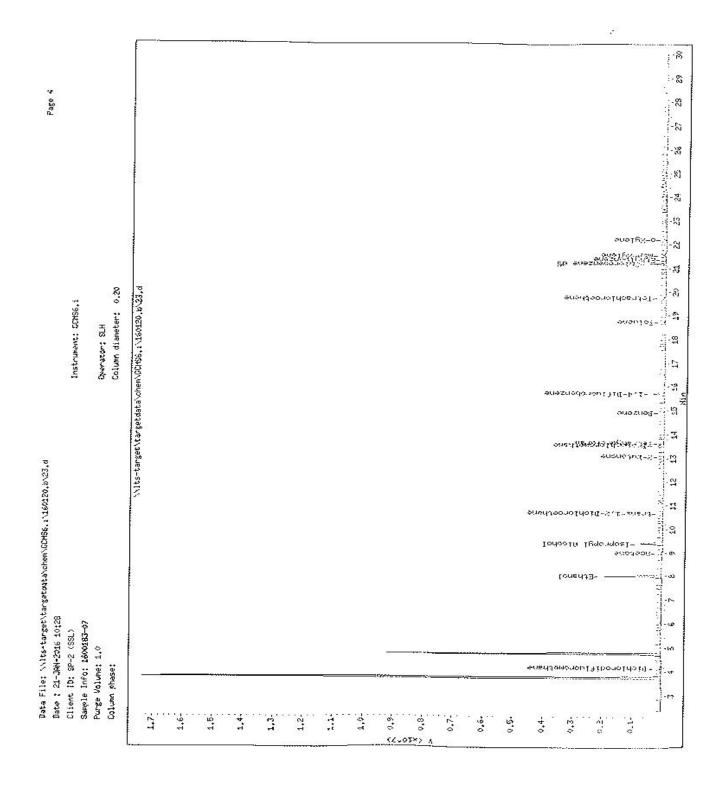














88 Empire Drive St Paul, MN 55103 Tel: 651-642-1150 Fax: 651-642-1239

March 09, 2016

REVISION

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

Work Order Number: 1600901

RE: TO-15

This is a revised report. The details of the revision are listed in the case narrative on the following page.

Enclosed are the results of analyses for samples received by the laboratory on 02/25/16. 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. Additionally, all samples were received in acceptable condition unless otherwise noted.

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 Accreditation #027-123-295

Prepared by, LEGEND TECHNICAL SERVICES, INC

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



Fax: 651-642-1239

Landmark Environmental	Project:	TO-15		
2042 West 98th Street	Project Number:	City of Rochester CRC	Work Order #:	1600901
Bloomington, MN 55431	Project Manager:	Mr. Jason Skramstad	Date Reported:	03/09/16

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
LSG-7	1600901-01	Air	02/24/16 05:05	02/25/16 10:55
LSG-8	1600901-02	Air	02/24/16 05:30	02/25/16 10:55
LSG-9	1600901-03	Air	02/24/16 04:08	02/25/16 10:55
LSG-10	1600901-04	Air	02/24/16 04:38	02/25/16 10:55
SP-1 ES	1600901-05	Air	02/24/16 04:26	02/25/16 10:55
SP-2 SSL	1600901-06	Air	02/24/16 05:18	02/25/16 10:55
DPE-EXHAUST	1600901-07	Air	02/24/16 09:55	02/25/16 10:55

Case Narrative:

The %RPD results for 2-butanone, Ethly Acetate, Ethylbenzene, m&p-Xylene, and o-Xylene in the TO-15 extraction batch B6C0116 duplicate exceeded methods limits.

Per the client's instructions, TICs were not included in this report.

At the client's request, this report was revised on March 9, 2016 to change the sample ID for laboratory ID 1600901-07. This report supersedes the report dated March 8, 2016.



Fax: 651-642-1239

Landmark Environmental Project: TO-15

2042 West 98th Street Project Number: City of Rochester CRC Work Order #: 1600901
Bloomington, MN 55431 Project Manager: Mr. Jason Skramstad Date Reported: 03/09/16

VOC - AIR Legend Technical Services, Inc.

Analyte (CAS#)	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
LSG-7 (1600901-01) Air Received:0	2/25/16 10:55	Sampl	ed:02/24/1	6 05:05						
1,1,1-Trichloroethane (71-55-6)	<2.7	2.7	0.044	ug/m³	1	B6C0116	02/29/16	03/01/16	TO-15(M)	
1,1,2,2-Tetrachloroethane (79-34-5)	<3.4	3.4	0.074	ug/m³	1	"	"	"	"	
1,1,2-Trichloroethane (79-00-5)	<2.7	2.7	0.11	ug/m³	1	"	"	"	"	
1,1-Dichloroethane (75-34-3)	<2.0	2.0	0.11	ug/m³	1	"	"	"	"	
1,1-Dichloroethene (75-35-4)	<2.0	2.0	0.078	ug/m³	1	"	"	"	"	
1,2,4-Trichlorobenzene (120-82-1)	<3.7	3.7	0.13	ug/m³	1	"	"	"	"	
1,2,4-Trimethylbenzene (95-63-6)	<1.0	1.0	0.073	ug/m³	1	"	"	"	"	
1,2-Dibromoethane (106-93-4)	<3.8	3.8	0.16	ug/m³	1	"	"	"	"	
1,2-Dichlorobenzene (95-50-1)	<3.0	3.0	0.071	ug/m³	1	"	"	"	"	
1,2-Dichloroethane (107-06-2)	<2.0	2.0	0.055	ug/m³	1	"	"	"	"	
1,2-Dichloropropane (78-87-5)	<2.3	2.3	0.081	ug/m³	1	"	"	"	"	
1,3,5-Trimethylbenzene (108-67-8)	<1.0	1.0	0.11	ug/m³	1	"	"	"	"	
1,3-Butadiene (106-99-0)	<1.1	1.1	0.10	ug/m³	1	"	"	"	"	
1,3-Dichlorobenzene (541-73-1)	<3.0	3.0	0.14	ug/m³	1	"	"	"	"	
1,4-Dichlorobenzene (106-46-7)	<3.0	3.0	0.17	ug/m³	1		"	"	"	
2-Butanone (78-93-3)	5.9	1.5	0.078	ug/m³	1	"	"	"	"	R8
4-Ethyltoluene (622-96-8)	<2.5	2.5	0.11	ug/m³	1	"	"	"	"	
Acetone (67-64-1)	64	18	0.82	ug/m³	15	"	"	03/01/16	"	
Benzene (71-43-2)	0.78	0.64	0.050	ug/m³	1	"	"	03/01/16	"	
Benzyl chloride (100-44-7)	<2.6	2.6	0.073	ug/m³	1	"	"	"	"	
Bromodichloromethane (75-27-4)	<3.4	3.4	0.13	ug/m³	1	"	"	"	"	
Bromoform (75-25-2)	<5.2	5.2	0.13	ug/m³	1	"	"	"	"	
Bromomethane (74-83-9)	<1.9	1.9	0.069	ug/m³	1	"	"	"	"	
Carbon disulfide (75-15-0)	<1.6	1.6	0.070	ug/m³	1	"	"	"	"	
Carbon tetrachloride (56-23-5)	<3.1	3.1	0.087	ug/m³	1	"	"	"	"	
Chlorobenzene (108-90-7)	<2.3	2.3	0.080	ug/m³	1	"	"	"	"	
Chloroethane (75-00-3)	<1.3	1.3	0.037	ug/m³	1	"	"	"	"	
Chloroform (67-66-3)	<2.4	2.4	0.055	ug/m³	1	"	"	"	"	
Chloromethane (74-87-3)	<1.0	1.0	0.044	ug/m³	1	"	"	"	"	
cis-1,2-Dichloroethene (156-59-2)	<2.0	2.0	0.089	ug/m³	1	"	"	"	"	
cis-1,3-Dichloropropene (10061-01-5)	<2.3	2.3	0.12	ug/m³	1	"	"	"	"	
Cyclohexane (110-82-7)	<1.7	1.7	0.059	ug/m³	1	"	"	"	"	
Dibromochloromethane (124-48-1)	<4.3	4.3	0.16	ug/m³	1	"	"	"	"	
Dichlorodifluoromethane (75-71-8)	3.1	2.5	0.12	ug/m³	1	"	"	"	"	
Dichlorotetrafluoroethane (76-14-2)	<3.5	3.5	0.063	ug/m³	1	"	"	"	"	

Legend Technical Services, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Fax: 651-642-1239

Landmark Environmental Project: TO-15

2042 West 98th Street Project Number: City of Rochester CRC Work Order #: 1600901 Bloomington, MN 55431 Project Manager: Mr. Jason Skramstad Date Reported: 03/09/16

Analyte (CAS#)	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
LSG-7 (1600901-01) Air Received:02	2/25/16 10:55	Samp	led:02/24/1	6 05:05						
Ethanol (64-17-5)	340	14	1.0	ug/m³	15	B6C0116	02/29/16	03/01/16	TO-15(M)	
Ethyl acetate (141-78-6)	3.7	1.8	0.11	ug/m³	1	"	"	03/01/16	"	R8
Ethylbenzene (100-41-4)	1.8	0.87	0.082	ug/m³	1	"	"	"	"	R8
Hexachlorobutadiene (87-68-3)	<5.3	5.3	0.27	ug/m³	1	"	"	"	"	
Isopropyl alcohol (67-63-0)	300	18	1.1	ug/m³	15	"	n .	03/01/16	"	
m,p-Xylene (136777-61-2)	6.9	1.7	0.15	ug/m³	1	"	"	03/01/16	"	R8
Methyl butyl ketone (591-78-6)	<2.0	2.0	0.12	ug/m³	1	"	"	"	"	
Methyl isobutyl ketone (108-10-1)	<2.0	2.0	0.11	ug/m³	1	"	"	"	"	
Methyl tert-butyl ether (1634-04-4)	<1.8	1.8	0.11	ug/m³	1	"	"	"	"	
Methylene chloride (75-09-2)	2.2	1.7	0.21	ug/m³	1	"	"	"	"	
Naphthalene (91-20-3)	<2.6	2.6	0.11	ug/m³	1	"	u u	u u	"	
n-Heptane (142-82-5)	<2.0	2.0	0.078	ug/m³	1	"	u u	u u	"	
n-Hexane (110-54-3)	2.6	1.8	0.074	ug/m³	1	"	u u	u u	"	
o-Xylene (95-47-6)	2.4	0.87	0.096	ug/m³	1	"	u u	u u	"	R8
Propylene (115-07-1)	<0.86	0.86	0.027	ug/m³	1	"	"	"	"	
Styrene (100-42-5)	<2.1	2.1	0.096	ug/m³	1	"	"	"	"	
Tetrachloroethene (127-18-4)	87	3.4	0.13	ug/m³	1	"	u u	u u	"	
Tetrahydrofuran (109-99-9)	5.3	1.5	0.038	ug/m³	1	"	"	"	"	
Toluene (108-88-3)	54	0.75	0.060	ug/m³	1	"	"	"		
trans-1,2-Dichloroethene (156-60-5)	<2.0	2.0	0.11	ug/m³	1	"	"	"		
trans-1,3-Dichloropropene (10061-02-6)	<2.3	2.3	0.070	ug/m³	1	"	"	"	"	
Trichloroethene (79-01-6)	<1.1	1.1	0.12	ug/m³	1	"	"	"	"	
Trichlorofluoromethane (75-69-4)	<2.8	2.8	0.048	ug/m³	1	"	"	"	"	
Trichlorotrifluoroethane (76-13-1)	56	3.8	0.17	ug/m³	1	"	"	"	"	
Vinyl acetate (108-05-4)	<1.8	1.8	0.90	ug/m³	1	"	u u	u u	"	
Vinyl chloride (75-01-4)	<0.51	0.51	0.051	ug/m³	1	"	"	"	"	
LSG-8 (1600901-02) Air Received:02	2/25/16 10:55	Samp	led:02/24/1	6 05:30						
1,1,1-Trichloroethane (71-55-6)	<2.7	2.7	0.044	ug/m³	1	B6C0116	02/29/16	03/01/16	TO-15(M)	
1,1,2,2-Tetrachloroethane (79-34-5)	<3.4	3.4	0.074	ug/m³	1	"	u u	u u	"	
1,1,2-Trichloroethane (79-00-5)	<2.7	2.7	0.11	ug/m³	1	"	u u	u u	"	
1,1-Dichloroethane (75-34-3)	<2.0	2.0	0.11	ug/m³	1	"	"	"	"	
1,1-Dichloroethene (75-35-4)	<2.0	2.0	0.078	ug/m³	1	"	m .	II .	"	
1,2,4-Trichlorobenzene (120-82-1)	<3.7	3.7	0.13	ug/m³	1	"	"	"	"	
1,2,4-Trimethylbenzene (95-63-6)	1.1	1.0	0.073	ug/m³	1	"	"	"	"	
1,2-Dibromoethane (106-93-4)	<3.8	3.8	0.16	ug/m³	1	"	"	u .	"	



Fax: 651-642-1239

Landmark Environmental Project: TO-15

2042 West 98th Street Project Number: City of Rochester CRC Work Order #: 1600901 Bloomington, MN 55431 Project Manager: Mr. Jason Skramstad Date Reported: 03/09/16

Analyte (CAS#)	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
LSG-8 (1600901-02) Air Received:0	2/25/16 10:55	Sampl	ed:02/24/1	6 05:30	_	_				_
1,2-Dichlorobenzene (95-50-1)	<3.0	3.0	0.071	ug/m³	1	B6C0116	02/29/16	03/01/16	TO-15(M)	
1,2-Dichloroethane (107-06-2)	<2.0	2.0	0.055	ug/m³	1	"	"	"	"	
1,2-Dichloropropane (78-87-5)	<2.3	2.3	0.081	ug/m³	1	"	"	"	"	
1,3,5-Trimethylbenzene (108-67-8)	<1.0	1.0	0.11	ug/m³	1	"	"	"	"	
1,3-Butadiene (106-99-0)	<1.1	1.1	0.10	ug/m³	1	"	"	"	"	
1,3-Dichlorobenzene (541-73-1)	<3.0	3.0	0.14	ug/m³	1	"	"	"	"	
1,4-Dichlorobenzene (106-46-7)	<3.0	3.0	0.17	ug/m³	1	"	"	"	"	
2-Butanone (78-93-3)	4.0	1.5	0.078	ug/m³	1	"	"	"	"	
4-Ethyltoluene (622-96-8)	<2.5	2.5	0.11	ug/m³	1	"	"	"	"	
Acetone (67-64-1)	33	1.2	0.055	ug/m³	1	"	"	"	"	
Benzene (71-43-2)	<0.64	0.64	0.050	ug/m³	1	"	"	n .	"	
Benzyl chloride (100-44-7)	<2.6	2.6	0.073	ug/m³	1	"	"	n .	"	
Bromodichloromethane (75-27-4)	<3.4	3.4	0.13	ug/m³	1	"	"	n .	"	
Bromoform (75-25-2)	<5.2	5.2	0.13	ug/m³	1	"	"	"	"	
Bromomethane (74-83-9)	<1.9	1.9	0.069	ug/m³	1	"	"	n .	"	
Carbon disulfide (75-15-0)	<1.6	1.6	0.070	ug/m³	1	"	"	"	"	
Carbon tetrachloride (56-23-5)	<3.1	3.1	0.087	ug/m³	1	"	"	n .	"	
Chlorobenzene (108-90-7)	<2.3	2.3	0.080	ug/m³	1	"	"	"	"	
Chloroethane (75-00-3)	<1.3	1.3	0.037	ug/m³	1	"	"	"	"	
Chloroform (67-66-3)	<2.4	2.4	0.055	ug/m³	1	"	"	"	"	
Chloromethane (74-87-3)	<1.0	1.0	0.044	ug/m³	1	"	"	n .	"	
cis-1,2-Dichloroethene (156-59-2)	<2.0	2.0	0.089	ug/m³	1	"	"	n .	"	
cis-1,3-Dichloropropene (10061-01-5)	<2.3	2.3	0.12	ug/m³	1	"	"	n .	"	
Cyclohexane (110-82-7)	<1.7	1.7	0.059	ug/m³	1	"	"	n .	"	
Dibromochloromethane (124-48-1)	<4.3	4.3	0.16	ug/m³	1	"	"	"	"	
Dichlorodifluoromethane (75-71-8)	3.1	2.5	0.12	ug/m³	1	"	"	"	"	
Dichlorotetrafluoroethane (76-14-2)	<3.5	3.5	0.063	ug/m³	1	"	"	"	"	
Ethanol (64-17-5)	280	14	1.0	ug/m³	15	"	"	03/02/16	"	
Ethyl acetate (141-78-6)	2.3	1.8	0.11	ug/m³	1	"	"	03/01/16	"	
Ethylbenzene (100-41-4)	1.4	0.87	0.082	ug/m³	1	"	"	"	"	
Hexachlorobutadiene (87-68-3)	<5.3	5.3	0.27	ug/m³	1	"	"	"	"	
Isopropyl alcohol (67-63-0)	210	18	1.1	ug/m³	15	"	"	03/02/16	"	
m,p-Xylene (136777-61-2)	5.2	1.7	0.15	ug/m³	1	"	"	03/01/16	"	
Methyl butyl ketone (591-78-6)	<2.0	2.0	0.12	ug/m³	1	"	"	n .	"	
Methyl isobutyl ketone (108-10-1)	<2.0	2.0	0.11	ug/m³	1	"	"	n .	"	



Fax: 651-642-1239

Landmark Environmental Project: TO-15

2042 West 98th Street Project Number: City of Rochester CRC Work Order #: 1600901
Bloomington, MN 55431 Project Manager: Mr. Jason Skramstad Date Reported: 03/09/16

Analyte (CAS#)	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
LSG-8 (1600901-02) Air Received:02	/25/16 10:55	Samp	led:02/24/1	6 05:30						
Methyl tert-butyl ether (1634-04-4)	<1.8	1.8	0.11	ug/m³	1	B6C0116	02/29/16	03/01/16	TO-15(M)	
Methylene chloride (75-09-2)	<1.7	1.7	0.21	ug/m³	1	"	"	"	"	
Naphthalene (91-20-3)	<2.6	2.6	0.11	ug/m³	1	"	"	"	"	
n-Heptane (142-82-5)	<2.0	2.0	0.078	ug/m³	1	"	"	"	"	
n-Hexane (110-54-3)	<1.8	1.8	0.074	ug/m³	1	"	"	"		
o-Xylene (95-47-6)	1.9	0.87	0.096	ug/m³	1	"	"	"	"	
Propylene (115-07-1)	<0.86	0.86	0.027	ug/m³	1	"	"	"	"	
Styrene (100-42-5)	<2.1	2.1	0.096	ug/m³	1	"	"	"	"	
Tetrachloroethene (127-18-4)	880	51	2.0	ug/m³	15	"	"	03/02/16	"	
Tetrahydrofuran (109-99-9)	4.0	1.5	0.038	ug/m³	1	"	"	03/01/16	"	
Toluene (108-88-3)	24	0.75	0.060	ug/m³	1	"	"	n .	"	
trans-1,2-Dichloroethene (156-60-5)	<2.0	2.0	0.11	ug/m³	1	"	"	n .	"	
trans-1,3-Dichloropropene (10061-02-6)	<2.3	2.3	0.070	ug/m³	1	"	"	n .	"	
Trichloroethene (79-01-6)	1.5	1.1	0.12	ug/m³	1	"	"	n .	"	
Trichlorofluoromethane (75-69-4)	<2.8	2.8	0.048	ug/m³	1	"	n .	n .	"	
Trichlorotrifluoroethane (76-13-1)	33	3.8	0.17	ug/m³	1	"	"	n .	"	
Vinyl acetate (108-05-4)	<1.8	1.8	0.90	ug/m³	1	"	"	"		
Vinyl chloride (75-01-4)	<0.51	0.51	0.051	ug/m³	1	"	"	"	"	
LSG-9 (1600901-03) Air Received:02	/25/16 10:55	Samp	led:02/24/1	6 04:08						
1,1,1-Trichloroethane (71-55-6)	<2.7	2.7	0.044	ug/m³	1	B6C0116	02/29/16	03/01/16	TO-15(M)	
1,1,2,2-Tetrachloroethane (79-34-5)	<3.4	3.4	0.074	ug/m³	1	"	"	n .	"	
1,1,2-Trichloroethane (79-00-5)	<2.7	2.7	0.11	ug/m³	1	"	"	n .	"	
1,1-Dichloroethane (75-34-3)	<2.0	2.0	0.11	ug/m³	1	"	"	"	"	
1,1-Dichloroethene (75-35-4)	<2.0	2.0	0.078	ug/m³	1	"	"	"	"	
1,2,4-Trichlorobenzene (120-82-1)	<3.7	3.7	0.13	ug/m³	1	"	"	"	"	
1,2,4-Trimethylbenzene (95-63-6)	1.2	1.0	0.073	ug/m³	1	"	"	n .	"	
1,2-Dibromoethane (106-93-4)	<3.8	3.8	0.16	ug/m³	1	"	"	n .	"	
1,2-Dichlorobenzene (95-50-1)	<3.0	3.0	0.071	ug/m³	1	"	"	"	"	
1,2-Dichloroethane (107-06-2)	<2.0	2.0	0.055	ug/m³	1	"	"	"	"	
1,2-Dichloropropane (78-87-5)	<2.3	2.3	0.081	ug/m³	1	"	m .	n .	"	
1,3,5-Trimethylbenzene (108-67-8)	<1.0	1.0	0.11	ug/m³	1	"	m .	n .	"	
1,3-Butadiene (106-99-0)	<1.1	1.1	0.10	ug/m³	1	"	m .	n .	"	
1,3-Dichlorobenzene (541-73-1)	<3.0	3.0	0.14	ug/m³	1	"	m .	n .	"	
1,4-Dichlorobenzene (106-46-7)	<3.0	3.0	0.17	ug/m³	1	"	m .	n .	"	
2-Butanone (78-93-3)	6.6	1.5	0.078	ug/m³	1	"	"	"	"	



Fax: 651-642-1239

Landmark Environmental Project: TO-15

2042 West 98th Street Project Number: City of Rochester CRC Work Order #: 1600901 Bloomington, MN 55431 Project Manager: Mr. Jason Skramstad Date Reported: 03/09/16

Analyte (CAS#)	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
LSG-9 (1600901-03) Air Received:02	2/25/16 10:55	Samp	led:02/24/1	6 04:08		_				
4-Ethyltoluene (622-96-8)	<2.5	2.5	0.11	ug/m³	1	B6C0116	02/29/16	03/01/16	TO-15(M)	
Acetone (67-64-1)	43	1.2	0.055	ug/m³	1	"	"	"	"	
Benzene (71-43-2)	0.88	0.64	0.050	ug/m³	1	"	"	"	"	
Benzyl chloride (100-44-7)	<2.6	2.6	0.073	ug/m³	1	"	"	"	"	
Bromodichloromethane (75-27-4)	<3.4	3.4	0.13	ug/m³	1	"	"	"	"	
Bromoform (75-25-2)	<5.2	5.2	0.13	ug/m³	1	"	"	"	"	
Bromomethane (74-83-9)	<1.9	1.9	0.069	ug/m³	1	"	"	"	"	
Carbon disulfide (75-15-0)	<1.6	1.6	0.070	ug/m³	1	"	"	"	"	
Carbon tetrachloride (56-23-5)	<3.1	3.1	0.087	ug/m³	1	"	"	"	"	
Chlorobenzene (108-90-7)	<2.3	2.3	0.080	ug/m³	1	"	"	"	"	
Chloroethane (75-00-3)	<1.3	1.3	0.037	ug/m³	1	"	"	"	"	
Chloroform (67-66-3)	<2.4	2.4	0.055	ug/m³	1	"	"	"	"	
Chloromethane (74-87-3)	<1.0	1.0	0.044	ug/m³	1	"	"	n .	"	
cis-1,2-Dichloroethene (156-59-2)	<2.0	2.0	0.089	ug/m³	1	"	"	n .	"	
cis-1,3-Dichloropropene (10061-01-5)	<2.3	2.3	0.12	ug/m³	1	"	n .	"	"	
Cyclohexane (110-82-7)	<1.7	1.7	0.059	ug/m³	1	"	"	n .	"	
Dibromochloromethane (124-48-1)	<4.3	4.3	0.16	ug/m³	1	"	"	n .	"	
Dichlorodifluoromethane (75-71-8)	2.9	2.5	0.12	ug/m³	1	"	"	"	"	
Dichlorotetrafluoroethane (76-14-2)	<3.5	3.5	0.063	ug/m³	1	"	"	"	"	
Ethanol (64-17-5)	640	28	2.0	ug/m³	30	"	"	03/02/16	"	
Ethyl acetate (141-78-6)	6.4	1.8	0.11	ug/m³	1	"	"	03/01/16	"	
Ethylbenzene (100-41-4)	2.6	0.87	0.082	ug/m³	1	"	"	"	"	
Hexachlorobutadiene (87-68-3)	<5.3	5.3	0.27	ug/m³	1	"	"	"	"	
Isopropyl alcohol (67-63-0)	450	36	2.2	ug/m³	30	"	"	03/02/16	"	
m,p-Xylene (136777-61-2)	9.2	1.7	0.15	ug/m³	1	"	"	03/01/16	"	
Methyl butyl ketone (591-78-6)	<2.0	2.0	0.12	ug/m³	1	"	"	"	"	
Methyl isobutyl ketone (108-10-1)	<2.0	2.0	0.11	ug/m³	1	"	"	"	"	
Methyl tert-butyl ether (1634-04-4)	<1.8	1.8	0.11	ug/m³	1	"	"	"	"	
Methylene chloride (75-09-2)	<1.7	1.7	0.21	ug/m³	1	"	"	"	"	
Naphthalene (91-20-3)	<2.6	2.6	0.11	ug/m³	1	"	"	"	"	
n-Heptane (142-82-5)	<2.0	2.0	0.078	ug/m³	1	"	"	n .	"	
n-Hexane (110-54-3)	<1.8	1.8	0.074	ug/m³	1	"	"	"	"	
o-Xylene (95-47-6)	3.1	0.87	0.096	ug/m³	1	"	"	"	"	
Propylene (115-07-1)	<0.86	0.86	0.027	ug/m³	1	"	m .	"	"	
Styrene (100-42-5)	<2.1	2.1	0.096	ug/m³	1	"	"	"	"	



Fax: 651-642-1239

Landmark Environmental Project: TO-15

2042 West 98th Street Project Number: City of Rochester CRC Work Order #: 1600901
Bloomington, MN 55431 Project Manager: Mr. Jason Skramstad Date Reported: 03/09/16

Analyte (CAS#)	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
LSG-9 (1600901-03) Air Received:02	/25/16 10:55	Samp	led:02/24/1	6 04:08						
Tetrachloroethene (127-18-4)	9.3	3.4	0.13	ug/m³	1	B6C0116	02/29/16	03/01/16	TO-15(M)	
Tetrahydrofuran (109-99-9)	5.5	1.5	0.038	ug/m³	1	"	"	"		
Toluene (108-88-3)	31	0.75	0.060	ug/m³	1	"	"	"	"	
trans-1,2-Dichloroethene (156-60-5)	<2.0	2.0	0.11	ug/m³	1	"	"	"	"	
trans-1,3-Dichloropropene (10061-02-6)	<2.3	2.3	0.070	ug/m³	1	"	"	"		
Trichloroethene (79-01-6)	<1.1	1.1	0.12	ug/m³	1	"	"	"	"	
Trichlorofluoromethane (75-69-4)	<2.8	2.8	0.048	ug/m³	1	"	"	"	"	
Trichlorotrifluoroethane (76-13-1)	15	3.8	0.17	ug/m³	1	"	"	"	"	
Vinyl acetate (108-05-4)	<1.8	1.8	0.90	ug/m³	1	"	"	"	"	
Vinyl chloride (75-01-4)	<0.51	0.51	0.051	ug/m³	1	"	"	"	"	
LSG-10 (1600901-04) Air Received:0	2/25/16 10:5	5 Sam	pled:02/24/	16 04:38						
1,1,1-Trichloroethane (71-55-6)	<2.7	2.7	0.044	ug/m³	1	B6C0116	02/29/16	03/01/16	TO-15(M)	
1,1,2,2-Tetrachloroethane (79-34-5)	<3.4	3.4	0.074	ug/m³	1	"	"	"	"	
1,1,2-Trichloroethane (79-00-5)	<2.7	2.7	0.11	ug/m³	1	"	"	"	"	
1,1-Dichloroethane (75-34-3)	<2.0	2.0	0.11	ug/m³	1	"	"	"	"	
1,1-Dichloroethene (75-35-4)	<2.0	2.0	0.078	ug/m³	1	"	"	"	"	
1,2,4-Trichlorobenzene (120-82-1)	<3.7	3.7	0.13	ug/m³	1	"	"	"	"	
1,2,4-Trimethylbenzene (95-63-6)	<1.0	1.0	0.073	ug/m³	1	"	"	"	"	
1,2-Dibromoethane (106-93-4)	<3.8	3.8	0.16	ug/m³	1	"	"	"	"	
1,2-Dichlorobenzene (95-50-1)	<3.0	3.0	0.071	ug/m³	1	"	"	"	"	
1,2-Dichloroethane (107-06-2)	<2.0	2.0	0.055	ug/m³	1	"	"	"		
1,2-Dichloropropane (78-87-5)	<2.3	2.3	0.081	ug/m³	1	"	"	"		
1,3,5-Trimethylbenzene (108-67-8)	<1.0	1.0	0.11	ug/m³	1	"	"	"		
1,3-Butadiene (106-99-0)	<1.1	1.1	0.10	ug/m³	1	"	"	"		
1,3-Dichlorobenzene (541-73-1)	<3.0	3.0	0.14	ug/m³	1	"	"	"	"	
1,4-Dichlorobenzene (106-46-7)	<3.0	3.0	0.17	ug/m³	1	"	"	"	"	
2-Butanone (78-93-3)	4.0	1.5	0.078	ug/m³	1	"	"	"	"	
4-Ethyltoluene (622-96-8)	<2.5	2.5	0.11	ug/m³	1	"	"	"	"	
Acetone (67-64-1)	64	18	0.82	ug/m³	15	"	"	03/02/16		
Benzene (71-43-2)	0.75	0.64	0.050	ug/m³	1	"	"	03/01/16		
Benzyl chloride (100-44-7)	<2.6	2.6	0.073	ug/m³	1	"	"	"	"	
Bromodichloromethane (75-27-4)	<3.4	3.4	0.13	ug/m³	1	"	"	"	"	
Bromoform (75-25-2)	<5.2	5.2	0.13	ug/m³	1	"	"	"	"	
Bromomethane (74-83-9)	<1.9	1.9	0.069	ug/m³	1	"	"	"		
Carbon disulfide (75-15-0)	<1.6	1.6	0.070	ug/m³	1	"	"	"	"	



Fax: 651-642-1239

Landmark Environmental Project: TO-15

2042 West 98th Street Project Number: City of Rochester CRC Work Order #: 1600901 Bloomington, MN 55431 Project Manager: Mr. Jason Skramstad Date Reported: 03/09/16

Analyte (CAS#)	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
LSG-10 (1600901-04) Air Received:0)2/25/16 10:5	5 Samı	pled:02/24/	16 04:38						
Carbon tetrachloride (56-23-5)	<3.1	3.1	0.087	ug/m³	1	B6C0116	02/29/16	03/01/16	TO-15(M)	
Chlorobenzene (108-90-7)	<2.3	2.3	0.080	ug/m³	1	"	"	"	"	
Chloroethane (75-00-3)	<1.3	1.3	0.037	ug/m³	1	"	"	"	"	
Chloroform (67-66-3)	<2.4	2.4	0.055	ug/m³	1	"	"	"	"	
Chloromethane (74-87-3)	<1.0	1.0	0.044	ug/m³	1	"	"	"	"	
cis-1,2-Dichloroethene (156-59-2)	<2.0	2.0	0.089	ug/m³	1	"	"	"	"	
cis-1,3-Dichloropropene (10061-01-5)	<2.3	2.3	0.12	ug/m³	1	"	"	"	"	
Cyclohexane (110-82-7)	<1.7	1.7	0.059	ug/m³	1	"	"	"	"	
Dibromochloromethane (124-48-1)	<4.3	4.3	0.16	ug/m³	1	"	"	"	"	
Dichlorodifluoromethane (75-71-8)	2.8	2.5	0.12	ug/m³	1	"	"	"	"	
Dichlorotetrafluoroethane (76-14-2)	<3.5	3.5	0.063	ug/m³	1	"	"	"	"	
Ethanol (64-17-5)	330	14	1.0	ug/m³	15	"	"	03/02/16	"	
Ethyl acetate (141-78-6)	2.2	1.8	0.11	ug/m³	1	"	"	03/01/16	"	
Ethylbenzene (100-41-4)	1.8	0.87	0.082	ug/m³	1	"	"	"	"	
Hexachlorobutadiene (87-68-3)	<5.3	5.3	0.27	ug/m³	1	"	"	"	"	
Isopropyl alcohol (67-63-0)	290	18	1.1	ug/m³	15	"	"	03/02/16	"	
m,p-Xylene (136777-61-2)	6.8	1.7	0.15	ug/m³	1	"	"	03/01/16	"	
Methyl butyl ketone (591-78-6)	<2.0	2.0	0.12	ug/m³	1	"	"	"	"	
Methyl isobutyl ketone (108-10-1)	<2.0	2.0	0.11	ug/m³	1	"	"	"	"	
Methyl tert-butyl ether (1634-04-4)	<1.8	1.8	0.11	ug/m³	1	"	"	"	u u	
Methylene chloride (75-09-2)	6.0	1.7	0.21	ug/m³	1	"	"	"	"	
Naphthalene (91-20-3)	<2.6	2.6	0.11	ug/m³	1	"	"	"	"	
n-Heptane (142-82-5)	<2.0	2.0	0.078	ug/m³	1	"	"	"	"	
n-Hexane (110-54-3)	5.8	1.8	0.074	ug/m³	1	"	"	"	"	
o-Xylene (95-47-6)	2.2	0.87	0.096	ug/m³	1	"	"	"	"	
Propylene (115-07-1)	<0.86	0.86	0.027	ug/m³	1	"	"	"	"	
Styrene (100-42-5)	<2.1	2.1	0.096	ug/m³	1	"	"	"	"	
Tetrachloroethene (127-18-4)	85	3.4	0.13	ug/m³	1	"	"	"	"	
Tetrahydrofuran (109-99-9)	4.1	1.5	0.038	ug/m³	1	"	"	"	"	
Toluene (108-88-3)	62	0.75	0.060	ug/m³	1	"	"	"	"	
trans-1,2-Dichloroethene (156-60-5)	<2.0	2.0	0.11	ug/m³	1	"	"	"	"	
trans-1,3-Dichloropropene (10061-02-6)	<2.3	2.3	0.070	ug/m³	1	"	"	"	"	
Trichloroethene (79-01-6)	<1.1	1.1	0.12	ug/m³	1	"	"	"	"	
Trichlorofluoromethane (75-69-4)	<2.8	2.8	0.048	ug/m³	1	"	"	"	"	
Trichlorotrifluoroethane (76-13-1)	190	57	2.6	ug/m³	15	"	"	03/02/16	u u	



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Landmark Environmental Project: TO-15

2042 West 98th Street Project Number: City of Rochester CRC Work Order #: 1600901
Bloomington, MN 55431 Project Manager: Mr. Jason Skramstad Date Reported: 03/09/16

Analyte (CAS#)	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
LSG-10 (1600901-04) Air Received:	02/25/16 10:5	5 Sam	pled:02/24/	16 04:38						
Vinyl acetate (108-05-4)	<1.8	1.8	0.90	ug/m³	1	B6C0116	02/29/16	03/01/16	TO-15(M)	
Vinyl chloride (75-01-4)	<0.51	0.51	0.051	ug/m³	1	"	"	"	"	
SP-1 ES (1600901-05) Air Received	:02/25/16 10:	55 San	npled:02/24/	/16 04:26						
1,1,1-Trichloroethane (71-55-6)	<2.7	2.7	0.044	ug/m³	1	B6C0116	02/29/16	03/01/16	TO-15(M)	
1,1,2,2-Tetrachloroethane (79-34-5)	<3.4	3.4	0.074	ug/m³	1	"	"	n .	II .	
1,1,2-Trichloroethane (79-00-5)	<2.7	2.7	0.11	ug/m³	1	"	"	"	"	
1,1-Dichloroethane (75-34-3)	<2.0	2.0	0.11	ug/m³	1	"	"	"	"	
1,1-Dichloroethene (75-35-4)	<2.0	2.0	0.078	ug/m³	1	"	"	"	"	
1,2,4-Trichlorobenzene (120-82-1)	<3.7	3.7	0.13	ug/m³	1	"	"	"	"	
1,2,4-Trimethylbenzene (95-63-6)	<1.0	1.0	0.073	ug/m³	1	"	"	"	"	
1,2-Dibromoethane (106-93-4)	<3.8	3.8	0.16	ug/m³	1	"	"	"	"	
1,2-Dichlorobenzene (95-50-1)	<3.0	3.0	0.071	ug/m³	1	"	"	"	"	
1,2-Dichloroethane (107-06-2)	<2.0	2.0	0.055	ug/m³	1	"	"	"	"	
1,2-Dichloropropane (78-87-5)	<2.3	2.3	0.081	ug/m³	1	"	"	"	"	
1,3,5-Trimethylbenzene (108-67-8)	<1.0	1.0	0.11	ug/m³	1	"	"	"	"	
1,3-Butadiene (106-99-0)	<1.1	1.1	0.10	ug/m³	1	"	"	"	"	
1,3-Dichlorobenzene (541-73-1)	<3.0	3.0	0.14	ug/m³	1	"	"	"	"	
1,4-Dichlorobenzene (106-46-7)	<3.0	3.0	0.17	ug/m³	1	"	"	"	"	
2-Butanone (78-93-3)	3.7	1.5	0.078	ug/m³	1	"	"	"	"	
4-Ethyltoluene (622-96-8)	<2.5	2.5	0.11	ug/m³	1	"	"	"	"	
Acetone (67-64-1)	43	1.2	0.055	ug/m³	1	"	"	"	"	
Benzene (71-43-2)	0.74	0.64	0.050	ug/m³	1	"	"	"	"	
Benzyl chloride (100-44-7)	<2.6	2.6	0.073	ug/m³	1	"	"	"	"	
Bromodichloromethane (75-27-4)	<3.4	3.4	0.13	ug/m³	1	"	"	"	"	
Bromoform (75-25-2)	<5.2	5.2	0.13	ug/m³	1	"	"	"	"	
Bromomethane (74-83-9)	<1.9	1.9	0.069	ug/m³	1	"	"	"	"	
Carbon disulfide (75-15-0)	<1.6	1.6	0.070	ug/m³	1	"	"	n .	"	
Carbon tetrachloride (56-23-5)	<3.1	3.1	0.087	ug/m³	1	"	"	"	"	
Chlorobenzene (108-90-7)	<2.3	2.3	0.080	ug/m³	1	"	"	"	"	
Chloroethane (75-00-3)	<1.3	1.3	0.037	ug/m³	1	"	"	"	"	
Chloroform (67-66-3)	<2.4	2.4	0.055	ug/m³	1	"	"	"	"	
Chloromethane (74-87-3)	<1.0	1.0	0.044	ug/m³	1	"	"	"	"	
cis-1,2-Dichloroethene (156-59-2)	<2.0	2.0	0.089	ug/m³	1	"	"	"	"	
cis-1,3-Dichloropropene (10061-01-5)	<2.3	2.3	0.12	ug/m³	1	"	"	"	"	
Cyclohexane (110-82-7)	<1.7	1.7	0.059	ug/m³	1	"	"	"	"	



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Landmark Environmental Project: TO-15

2042 West 98th Street Project Number: City of Rochester CRC Work Order #: 1600901
Bloomington, MN 55431 Project Manager: Mr. Jason Skramstad Date Reported: 03/09/16

Analyte (CAS#)	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SP-1 ES (1600901-05) Air Received:0)2/25/16 10:	55 Sam	pled:02/24	/16 04:26						
Dibromochloromethane (124-48-1)	<4.3	4.3	0.16	ug/m³	1	B6C0116	02/29/16	03/01/16	TO-15(M)	
Dichlorodifluoromethane (75-71-8)	3.2	2.5	0.12	ug/m³	1	"	"	"	"	
Dichlorotetrafluoroethane (76-14-2)	<3.5	3.5	0.063	ug/m³	1	"	"	"	"	
Ethanol (64-17-5)	440	14	1.0	ug/m³	15	"	"	03/02/16	"	
Ethyl acetate (141-78-6)	2.3	1.8	0.11	ug/m³	1	"	"	03/01/16	"	
Ethylbenzene (100-41-4)	1.8	0.87	0.082	ug/m³	1	"	"	"	"	
Hexachlorobutadiene (87-68-3)	<5.3	5.3	0.27	ug/m³	1	"	"	"	"	
Isopropyl alcohol (67-63-0)	380	18	1.1	ug/m³	15	"	"	03/02/16	"	
m,p-Xylene (136777-61-2)	6.9	1.7	0.15	ug/m³	1	"	"	03/01/16	"	
Methyl butyl ketone (591-78-6)	<2.0	2.0	0.12	ug/m³	1	"	"	"	"	
Methyl isobutyl ketone (108-10-1)	<2.0	2.0	0.11	ug/m³	1	"	n .	"	II .	
Methyl tert-butyl ether (1634-04-4)	<1.8	1.8	0.11	ug/m³	1	"	n .	"	II .	
Methylene chloride (75-09-2)	<1.7	1.7	0.21	ug/m³	1	"	n .	"	II .	
Naphthalene (91-20-3)	<2.6	2.6	0.11	ug/m³	1	"	"	n .	п	
n-Heptane (142-82-5)	<2.0	2.0	0.078	ug/m³	1	"	"	"	"	
n-Hexane (110-54-3)	<1.8	1.8	0.074	ug/m³	1	"	"	"	"	
o-Xylene (95-47-6)	2.2	0.87	0.096	ug/m³	1	"	"	"	"	
Propylene (115-07-1)	<0.86	0.86	0.027	ug/m³	1	"	"	"	n .	
Styrene (100-42-5)	<2.1	2.1	0.096	ug/m³	1	"	"	"	п	
Tetrachloroethene (127-18-4)	72	3.4	0.13	ug/m³	1	"	"	n .	п	
Tetrahydrofuran (109-99-9)	3.8	1.5	0.038	ug/m³	1	"	"	"	"	
Toluene (108-88-3)	68	0.75	0.060	ug/m³	1	"	"	"	п	
trans-1,2-Dichloroethene (156-60-5)	<2.0	2.0	0.11	ug/m³	1	"	"	"	п	
trans-1,3-Dichloropropene (10061-02-6)	<2.3	2.3	0.070	ug/m³	1	"	"	"	п	
Trichloroethene (79-01-6)	<1.1	1.1	0.12	ug/m³	1	"	"	"	"	
Trichlorofluoromethane (75-69-4)	<2.8	2.8	0.048	ug/m³	1	"	"	"	п	
Trichlorotrifluoroethane (76-13-1)	1000	57	2.6	ug/m³	15	"	"	03/02/16	n .	
Vinyl acetate (108-05-4)	<1.8	1.8	0.90	ug/m³	1	"	"	03/01/16	"	
Vinyl chloride (75-01-4)	<0.51	0.51	0.051	ug/m³	1	"	"	"	n .	
SP-2 SSL (1600901-06) Air Received	:02/25/16 10):55 Sa	mpled:02/2	4/16 05:18						
1,1,1-Trichloroethane (71-55-6)	<2.7	2.7	0.044	ug/m³	1	B6C0116	02/29/16	03/01/16	TO-15(M)	
1,1,2,2-Tetrachloroethane (79-34-5)	<3.4	3.4	0.074	ug/m³	1	"	"	"	"	
1,1,2-Trichloroethane (79-00-5)	<2.7	2.7	0.11	ug/m³	1	"	"	n .	II .	
1,1-Dichloroethane (75-34-3)	<2.0	2.0	0.11	ug/m³	1	"	"	n .	II .	
1,1-Dichloroethene (75-35-4)	<2.0	2.0	0.078	ug/m³	1	"	"	"	"	



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Landmark Environmental Project: TO-15

2042 West 98th Street Project Number: City of Rochester CRC Work Order #: 1600901 Bloomington, MN 55431 Project Manager: Mr. Jason Skramstad Date Reported: 03/09/16

Analyte (CAS#)	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SP-2 SSL (1600901-06) Air Received:	02/25/16 10	:55 Sa	mpled:02/2	4/16 05:18						
1,2,4-Trichlorobenzene (120-82-1)	<3.7	3.7	0.13	ug/m³	1	B6C0116	02/29/16	03/01/16	TO-15(M)	
1,2,4-Trimethylbenzene (95-63-6)	<1.0	1.0	0.073	ug/m³	1	"	"	"	"	
1,2-Dibromoethane (106-93-4)	<3.8	3.8	0.16	ug/m³	1	"	"	"	"	
1,2-Dichlorobenzene (95-50-1)	<3.0	3.0	0.071	ug/m³	1	"	"	"	"	
1,2-Dichloroethane (107-06-2)	<2.0	2.0	0.055	ug/m³	1	"	"	"	"	
1,2-Dichloropropane (78-87-5)	<2.3	2.3	0.081	ug/m³	1	"	"	"	"	
1,3,5-Trimethylbenzene (108-67-8)	<1.0	1.0	0.11	ug/m³	1	"	"	"	"	
1,3-Butadiene (106-99-0)	<1.1	1.1	0.10	ug/m³	1	"	"	"	"	
1,3-Dichlorobenzene (541-73-1)	<3.0	3.0	0.14	ug/m³	1	"	"	"	"	
1,4-Dichlorobenzene (106-46-7)	<3.0	3.0	0.17	ug/m³	1	"	"	"	"	
2-Butanone (78-93-3)	4.0	1.5	0.078	ug/m³	1	"	"		"	
4-Ethyltoluene (622-96-8)	<2.5	2.5	0.11	ug/m³	1	"	"		"	
Acetone (67-64-1)	37	1.2	0.055	ug/m³	1	"	"		"	
Benzene (71-43-2)	0.71	0.64	0.050	ug/m³	1	"	"		"	
Benzyl chloride (100-44-7)	<2.6	2.6	0.073	ug/m³	1	"	"	"	n	
Bromodichloromethane (75-27-4)	<3.4	3.4	0.13	ug/m³	1	"	"		"	
Bromoform (75-25-2)	<5.2	5.2	0.13	ug/m³	1	"	"		"	
Bromomethane (74-83-9)	<1.9	1.9	0.069	ug/m³	1	"	"		"	
Carbon disulfide (75-15-0)	<1.6	1.6	0.070	ug/m³	1	"	"		"	
Carbon tetrachloride (56-23-5)	<3.1	3.1	0.087	ug/m³	1	"	"	"	"	
Chlorobenzene (108-90-7)	<2.3	2.3	0.080	ug/m³	1	"	"		"	
Chloroethane (75-00-3)	<1.3	1.3	0.037	ug/m³	1	"	"		"	
Chloroform (67-66-3)	<2.4	2.4	0.055	ug/m³	1	"	"		"	
Chloromethane (74-87-3)	<1.0	1.0	0.044	ug/m³	1	"	"		"	
cis-1,2-Dichloroethene (156-59-2)	<2.0	2.0	0.089	ug/m³	1	"	"		"	
cis-1,3-Dichloropropene (10061-01-5)	<2.3	2.3	0.12	ug/m³	1	"	"		"	
Cyclohexane (110-82-7)	<1.7	1.7	0.059	ug/m³	1	"	"		"	
Dibromochloromethane (124-48-1)	<4.3	4.3	0.16	ug/m³	1	"	"		"	
Dichlorodifluoromethane (75-71-8)	2.9	2.5	0.12	ug/m³	1	"	"		"	
Dichlorotetrafluoroethane (76-14-2)	<3.5	3.5	0.063	ug/m³	1	"	"	"	n	
Ethanol (64-17-5)	350	14	1.0	ug/m³	15	"	"	03/02/16	п	
Ethyl acetate (141-78-6)	2.5	1.8	0.11	ug/m³	1	"	"	03/01/16	п	
Ethylbenzene (100-41-4)	1.8	0.87	0.082	ug/m³	1	"	"	"	n .	
Hexachlorobutadiene (87-68-3)	<5.3	5.3	0.27	ug/m³	1	"	"	"	n .	
Isopropyl alcohol (67-63-0)	330	18	1.1	ug/m³	15	"	"	03/02/16	"	



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Landmark Environmental Project: TO-15

2042 West 98th Street Project Number: City of Rochester CRC Work Order #: 1600901
Bloomington, MN 55431 Project Manager: Mr. Jason Skramstad Date Reported: 03/09/16

Analyte (CAS#)	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SP-2 SSL (1600901-06) Air Received	d:02/25/16 10):55 Sam	pled:02/2	24/16 05:18						
m,p-Xylene (136777-61-2)	6.8	1.7	0.15	ug/m³	1	B6C0116	02/29/16	03/01/16	TO-15(M)	
Methyl butyl ketone (591-78-6)	<2.0	2.0	0.12	ug/m³	1	"	ı	"	II .	
Methyl isobutyl ketone (108-10-1)	<2.0	2.0	0.11	ug/m³	1	"	ı	"	II .	
Methyl tert-butyl ether (1634-04-4)	<1.8	1.8	0.11	ug/m³	1	"	ı	"	II .	
Methylene chloride (75-09-2)	<1.7	1.7	0.21	ug/m³	1	"	п	u u	n .	
Naphthalene (91-20-3)	<2.6	2.6	0.11	ug/m³	1	"	п	u u	n .	
n-Heptane (142-82-5)	<2.0	2.0	0.078	ug/m³	1	"	п	u u	n .	
n-Hexane (110-54-3)	<1.8	1.8	0.074	ug/m³	1	"	п	u u	n .	
o-Xylene (95-47-6)	2.3	0.87	0.096	ug/m³	1	"	п	u u	n .	
Propylene (115-07-1)	<0.86	0.86	0.027	ug/m³	1	"	"	"	"	
Styrene (100-42-5)	<2.1	2.1	0.096	ug/m³	1	"	"	"	"	
Tetrachloroethene (127-18-4)	83	3.4	0.13	ug/m³	1	"	"	"	"	
Tetrahydrofuran (109-99-9)	4.3	1.5	0.038	ug/m³	1	"	"	"	"	
Toluene (108-88-3)	48	0.75	0.060	ug/m³	1	"	"	"	"	
trans-1,2-Dichloroethene (156-60-5)	<2.0	2.0	0.11	ug/m³	1	"	"	"	"	
trans-1,3-Dichloropropene (10061-02-6)	<2.3	2.3	0.070	ug/m³	1	"	"	"	"	
Trichloroethene (79-01-6)	<1.1	1.1	0.12	ug/m³	1	"	"	"	"	
Trichlorofluoromethane (75-69-4)	<2.8	2.8	0.048	ug/m³	1	"	"	"	"	
Trichlorotrifluoroethane (76-13-1)	45	3.8	0.17	ug/m³	1	"	"	"	"	
Vinyl acetate (108-05-4)	<1.8	1.8	0.90	ug/m³	1	"	"	"	"	
Vinyl chloride (75-01-4)	<0.51	0.51	0.051	ug/m³	1	"	"	"	"	
DPE-EXHAUST (1600901-07) Air Re	ceived:02/25	5/16 10:55	Sample	ed:02/24/16	09:55					
1,1,1-Trichloroethane (71-55-6)	5.3	2.7	0.044	ug/m³	1	B6C0116	02/29/16	03/01/16	TO-15(M)	
1,1,2,2-Tetrachloroethane (79-34-5)	<3.4	3.4	0.074	ug/m³	1	"	II .	"	"	
1,1,2-Trichloroethane (79-00-5)	<2.7	2.7	0.11	ug/m³	1	"	II .	"	"	
1,1-Dichloroethane (75-34-3)	<2.0	2.0	0.11	ug/m³	1	"	"	"	"	
1,1-Dichloroethene (75-35-4)	3.4	2.0	0.078	ug/m³	1	"	"	"	"	
1,2,4-Trichlorobenzene (120-82-1)	<3.7	3.7	0.13	ug/m³	1	"	"	"	"	
1,2,4-Trimethylbenzene (95-63-6)	<1.0	1.0	0.073	ug/m³	1	"	"	"	"	
1,2-Dibromoethane (106-93-4)	<3.8	3.8	0.16	ug/m³	1	"	"	"	"	
1,2-Dichlorobenzene (95-50-1)	<3.0	3.0	0.071	ug/m³	1	"	"	"	n	
1,2-Dichloroethane (107-06-2)	<2.0	2.0	0.055	ug/m³	1	"	II .	n .	п	
1,2-Dichloropropane (78-87-5)	<2.3	2.3	0.081	ug/m³	1	"	"	"	"	
1,3,5-Trimethylbenzene (108-67-8)	<1.0	1.0	0.11	ug/m³	1	"	"	"	"	
1,3-Butadiene (106-99-0)	<1.1	1.1	0.10	ug/m³	1	"	"	"	"	



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Landmark Environmental Project: TO-15

2042 West 98th Street Project Number: City of Rochester CRC Work Order #: 1600901 Bloomington, MN 55431 Project Manager: Mr. Jason Skramstad Date Reported: 03/09/16

Analyte (CAS#)	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
DPE-EXHAUST (1600901-07) Air	Received:02/25	/16 10:55	Sample	d:02/24/16	09:55					
1,3-Dichlorobenzene (541-73-1)	<3.0	3.0	0.14	ug/m³	1	B6C0116	02/29/16	03/01/16	TO-15(M)	
1,4-Dichlorobenzene (106-46-7)	<3.0	3.0	0.17	ug/m³	1	"	"	"	"	
2-Butanone (78-93-3)	10	1.5	0.078	ug/m³	1	"	"	"	"	
4-Ethyltoluene (622-96-8)	<2.5	2.5	0.11	ug/m³	1	"	"	"	"	
Acetone (67-64-1)	94	3.6	0.16	ug/m³	3	"	"	03/02/16	"	
Benzene (71-43-2)	1.2	0.64	0.050	ug/m³	1	"	"	03/01/16	II .	
Benzyl chloride (100-44-7)	<2.6	2.6	0.073	ug/m³	1	"	"	ıı	II .	
Bromodichloromethane (75-27-4)	<3.4	3.4	0.13	ug/m³	1	"	"	II .	"	
Bromoform (75-25-2)	<5.2	5.2	0.13	ug/m³	1	"	"	"	"	
Bromomethane (74-83-9)	<1.9	1.9	0.069	ug/m³	1	"	"	"	"	
Carbon disulfide (75-15-0)	<1.6	1.6	0.070	ug/m³	1	"	"	II .	"	
Carbon tetrachloride (56-23-5)	<3.1	3.1	0.087	ug/m³	1	"	"	II .	"	
Chlorobenzene (108-90-7)	<2.3	2.3	0.080	ug/m³	1	"	"	II .	"	
Chloroethane (75-00-3)	<1.3	1.3	0.037	ug/m³	1	"	"	ıı .	"	
Chloroform (67-66-3)	<2.4	2.4	0.055	ug/m³	1	"	"	"	"	
Chloromethane (74-87-3)	1.5	1.0	0.044	ug/m³	1	"	"	II .	"	
cis-1,2-Dichloroethene (156-59-2)	5.7	2.0	0.089	ug/m³	1	"	"	ıı .	"	
cis-1,3-Dichloropropene (10061-01-5)	<2.3	2.3	0.12	ug/m³	1	"	"	"	"	
Cyclohexane (110-82-7)	<1.7	1.7	0.059	ug/m³	1	"	"	"	"	
Dibromochloromethane (124-48-1)	<4.3	4.3	0.16	ug/m³	1	"	"	"	"	
Dichlorodifluoromethane (75-71-8)	3.4	2.5	0.12	ug/m³	1	"	"	"	"	
Dichlorotetrafluoroethane (76-14-2)	<3.5	3.5	0.063	ug/m³	1	"	"	ıı .	"	
Ethanol (64-17-5)	690	56	4.1	ug/m³	60	"	"	03/02/16	"	
Ethyl acetate (141-78-6)	<1.8	1.8	0.11	ug/m³	1	"	"	03/01/16	"	
Ethylbenzene (100-41-4)	7.2	0.87	0.082	ug/m³	1	"	"	II .	"	
Hexachlorobutadiene (87-68-3)	<5.3	5.3	0.27	ug/m³	1	"	"	II .	"	
Isopropyl alcohol (67-63-0)	790	72	4.5	ug/m³	60	"	"	03/02/16	"	
m,p-Xylene (136777-61-2)	28	1.7	0.15	ug/m³	1	"	"	03/01/16	"	
Methyl butyl ketone (591-78-6)	<2.0	2.0	0.12	ug/m³	1	"	"	II .	"	
Methyl isobutyl ketone (108-10-1)	<2.0	2.0	0.11	ug/m³	1	"	"	"	"	
Methyl tert-butyl ether (1634-04-4)	<1.8	1.8	0.11	ug/m³	1	"	"	II .	"	
Methylene chloride (75-09-2)	2.9	1.7	0.21	ug/m³	1	"	"	II .	"	
Naphthalene (91-20-3)	<2.6	2.6	0.11	ug/m³	1	"	"	II .	"	
n-Heptane (142-82-5)	<2.0	2.0	0.078	ug/m³	1	"	"	"	"	
n-Hexane (110-54-3)	1.9	1.8	0.074	ug/m³	1	"	"	"	"	



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Landmark Environmental Project: TO-15

2042 West 98th StreetProject Number:City of Rochester CRCWork Order #:1600901Bloomington, MN 55431Project Manager:Mr. Jason SkramstadDate Reported:03/09/16

Analyte (CAS#)	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
DPE-EXHAUST (1600901-07) Air	Received:02/25	/16 10:55	Sample	d:02/24/16	09:55					
o-Xylene (95-47-6)	8.1	0.87	0.096	ug/m³	1	B6C0116	02/29/16	03/01/16	TO-15(M)	
Propylene (115-07-1)	<0.86	0.86	0.027	ug/m³	1	"	"	"	"	
Styrene (100-42-5)	<2.1	2.1	0.096	ug/m³	1	"	"	"	"	
Tetrachloroethene (127-18-4)	8400	310	12	ug/m³	90	"	"	03/02/16	"	
Tetrahydrofuran (109-99-9)	6.7	1.5	0.038	ug/m³	1	"	"	03/01/16	"	
Toluene (108-88-3)	21	0.75	0.060	ug/m³	1	"	"	"	"	
trans-1,2-Dichloroethene (156-60-5)	<2.0	2.0	0.11	ug/m³	1	"	"	"	"	
trans-1,3-Dichloropropene (10061-02-6)	<2.3	2.3	0.070	ug/m³	1	"	"	"	"	
Trichloroethene (79-01-6)	5.0	1.1	0.12	ug/m³	1	"	"	"	"	
Trichlorofluoromethane (75-69-4)	<2.8	2.8	0.048	ug/m³	1	"	"	"	"	
Trichlorotrifluoroethane (76-13-1)	5600	230	10	ug/m³	60	"	"	03/02/16	"	
Vinyl acetate (108-05-4)	<1.8	1.8	0.90	ug/m³	1	"	"	03/01/16	"	
Vinyl chloride (75-01-4)	<0.51	0.51	0.051	ug/m³	1	"	"	"	m .	



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Landmark Environmental Project: TO-15

2042 West 98th Street Project Number: City of Rochester CRC Work Order #: 1600901 Bloomington, MN 55431 Project Manager: Mr. Jason Skramstad Date Reported: 03/09/16

VOC - AIR - Quality Control Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
Batch B6C0116 - TO-15											
Blank (B6C0116-BLK1)					Prepared	l & Analyze	ed: 02/29/1	6			
1,1,1-Trichloroethane	< 2.7	2.7	0.044	ug/m³	•						
1,1,2,2-Tetrachloroethane	< 3.4	3.4	0.074	ug/m³							
1,1,2-Trichloroethane	< 2.7	2.7	0.11	ug/m³							
1,1-Dichloroethane	< 2.0	2.0	0.11	ug/m³							
1,1-Dichloroethene	< 2.0	2.0	0.078	ug/m³							
1,2,4-Trichlorobenzene	< 3.7	3.7	0.13	ug/m³							
1,2,4-Trimethylbenzene	< 1.0	1.0	0.073	ug/m³							
1,2-Dibromoethane	< 3.8	3.8	0.16	ug/m³							
1,2-Dichlorobenzene	< 3.0	3.0	0.071	ug/m³							
1,2-Dichloroethane	< 2.0	2.0	0.055	ug/m³							
1,2-Dichloropropane	< 2.3	2.3	0.081	ug/m³							
1,3,5-Trimethylbenzene	< 1.0	1.0	0.11	ug/m³							
1,3-Butadiene	< 1.1	1.1	0.10	ug/m³							
1,3-Dichlorobenzene	< 3.0	3.0	0.14	ug/m³							
1,4-Dichlorobenzene	< 3.0	3.0	0.17	ug/m³							
2-Butanone	< 1.5	1.5	0.078	ug/m³							
4-Ethyltoluene	< 2.5	2.5	0.11	ug/m³							
Acetone	< 1.2	1.2	0.055	ug/m³							
Benzene	< 0.64	0.64	0.050	ug/m³							
Benzyl chloride	< 2.6	2.6	0.073	ug/m³							
Bromodichloromethane	< 3.4	3.4	0.13	ug/m³							
Bromoform	< 5.2	5.2	0.13	ug/m³							
Bromomethane	< 1.9	1.9	0.069	ug/m³							
Carbon disulfide	< 1.6	1.6	0.070	ug/m³							
Carbon tetrachloride	< 3.1	3.1	0.087	ug/m³							
Chlorobenzene	< 2.3	2.3	0.080	ug/m³							
Chloroethane	< 1.3	1.3	0.037	ug/m³							
Chloroform	< 2.4	2.4	0.055	ug/m³							
Chloromethane	< 1.0	1.0	0.044	ug/m³							
cis-1,2-Dichloroethene	< 2.0	2.0	0.089	ug/m³							
cis-1,3-Dichloropropene	< 2.3	2.3	0.12	ug/m³							
Cyclohexane	< 1.7	1.7	0.059	ug/m³							
Dibromochloromethane	< 4.3	4.3	0.16	ug/m³							
Dichlorodifluoromethane	< 2.5	2.5	0.12	ug/m³							
Dichlorotetrafluoroethane	< 3.5	3.5	0.063	ug/m³							
Ethanol	< 0.94	0.94	0.068	ug/m³							
Ethyl acetate	< 1.8	1.8	0.11	ug/m³							
Ethylbenzene	< 0.87	0.87	0.082	ug/m³							
Hexachlorobutadiene	< 5.3	5.3	0.27	ug/m³							
Isopropyl alcohol	< 1.2	1.2	0.075	ug/m³							



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Landmark Environmental Project: TO-15

2042 West 98th Street Project Number: City of Rochester CRC Work Order #: 1600901 Bloomington, MN 55431 Project Manager: Mr. Jason Skramstad Date Reported: 03/09/16

VOC - AIR - Quality Control Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
Batch B6C0116 - TO-15											
Blank (B6C0116-BLK1)					Prepared	l & Analyze	ed: 02/29/1	6			
m,p-Xylene	< 1.7	1.7	0.15	ug/m³	-	•					
Methyl butyl ketone	< 2.0	2.0	0.12	ug/m³							
Methyl isobutyl ketone	< 2.0	2.0	0.11	ug/m³							
Methyl tert-butyl ether	< 1.8	1.8	0.11	ug/m³							
Methylene chloride	< 1.7	1.7	0.21	ug/m³							
Naphthalene	< 2.6	2.6	0.11	ug/m³							
n-Heptane	< 2.0	2.0	0.078	ug/m³							
n-Hexane	< 1.8	1.8	0.074	ug/m³							
o-Xylene	< 0.87	0.87	0.096	ug/m³							
Propylene	< 0.86	0.86	0.027	ug/m³							
Styrene	< 2.1	2.1	0.096	ug/m³							
Tetrachloroethene	< 3.4	3.4	0.13	ug/m³							
Tetrahydrofuran	< 1.5	1.5	0.038	ug/m³							
Toluene	< 0.75	0.75	0.060	ug/m³							
trans-1,2-Dichloroethene	< 2.0	2.0	0.11	ug/m³							
trans-1,3-Dichloropropene	< 2.3	2.3	0.070	ug/m³							
Trichloroethene	< 1.1	1.1	0.12	ug/m³							
Trichlorofluoromethane	< 2.8	2.8	0.048	ug/m³							
Trichlorotrifluoroethane	< 3.8	3.8	0.17	ug/m³							
Vinyl acetate	< 1.8	1.8	0.90	ug/m³							
Vinyl chloride	< 0.51	0.51	0.051	ug/m³							
LCS (B6C0116-BS1)					Prepared	l & Analyze	ed: 02/29/1	6			
1,1,1-Trichloroethane	51.3	2.7	0.044	ug/m³	54.6		94.0	70-130			
1,1,2,2-Tetrachloroethane	58.9	3.4	0.074	ug/m³	68.6		85.8	70-130			
1,1,2-Trichloroethane	46.5	2.7	0.11	ug/m³	54.6		85.2	70-130			
1,1-Dichloroethane	35.2	2.0	0.11	ug/m³	40.5		86.9	70-130			
1,1-Dichloroethene	35.2	2.0	0.078	ug/m³	39.6		88.7	70-130			
1,2,4-Trichlorobenzene	74.2	3.7	0.13	ug/m³	74.2		100	70-130			
1,2,4-Trimethylbenzene	43.7	1.0	0.073	ug/m³	49.2		88.9	70-130			
1,2-Dibromoethane	65.2	3.8	0.16	ug/m³	76.8		84.9	70-130			
1,2-Dichlorobenzene	54.5	3.0	0.071	ug/m³	60.1		90.6	70-130			
1,2-Dichloroethane	39.5	2.0	0.055	ug/m³	40.5		97.7	70-130			
1,2-Dichloropropane	40.3	2.3	0.081	ug/m³	46.2		87.2	70-130			
1,3,5-Trimethylbenzene	42.4	1.0	0.11	ug/m³	49.2		86.2	70-130			
1,3-Butadiene	22.6	1.1	0.10	ug/m³	22.1		102	70-130			
1,3-Dichlorobenzene	55.0	3.0	0.14	ug/m³	60.1		91.4	70-130			
1,4-Dichlorobenzene	55.4	3.0	0.17	ug/m³	60.1		92.1	70-130			
2-Butanone	24.5	1.5	0.078	ug/m³	29.5		83.2	70-130			
4-Ethyltoluene	41.7	2.5	0.11	ug/m³	49.2		84.9	70-130			



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Landmark Environmental Project: TO-15

2042 West 98th Street Project Number: City of Rochester CRC Work Order #: 1600901
Bloomington, MN 55431 Project Manager: Mr. Jason Skramstad Date Reported: 03/09/16

VOC - AIR - Quality Control Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
Batch B6C0116 - TO-15											
LCS (B6C0116-BS1)					Prepared	l & Analyze	ed: 02/29/	16			
Acetone	23.1	1.2	0.055	ug/m³	23.8		97.1	70-130			
Benzene	27.7	0.64	0.050	ug/m³	31.9		86.7	70-130			
Benzyl chloride	52.3	2.6	0.073	ug/m³	51.8		101	70-130			
Bromodichloromethane	61.4	3.4	0.13	ug/m³	67.0		91.7	70-130			
Bromoform	94.4	5.2	0.13	ug/m³	103		91.3	70-130			
Bromomethane	39.2	1.9	0.069	ug/m³	38.8		101	70-130			
Carbon disulfide	27.2	1.6	0.070	ug/m³	31.1		87.4	70-130			
Carbon tetrachloride	59.8	3.1	0.087	ug/m³	62.9		95.1	70-130			
Chlorobenzene	38.9	2.3	0.080	ug/m³	46.0		84.5	70-130			
Chloroethane	24.6	1.3	0.037	ug/m³	26.4		93.4	70-130			
Chloroform	44.6	2.4	0.055	ug/m³	48.8		91.4	70-130			
Chloromethane	21.9	1.0	0.044	ug/m³	20.6		106	70-130			
cis-1,2-Dichloroethene	33.2	2.0	0.089	ug/m³	39.6		83.8	70-130			
cis-1,3-Dichloropropene	39.8	2.3	0.12	ug/m³	45.4		87.6	70-130			
Cyclohexane	29.7	1.7	0.059	ug/m³	34.4		86.4	70-130			
Dibromochloromethane	76.0	4.3	0.16	ug/m³	85.2		89.2	70-130			
Dichlorodifluoromethane	53.4	2.5	0.12	ug/m³	49.5		108	70-130			
Dichlorotetrafluoroethane	74.1	3.5	0.063	ug/m³	69.9		106	70-130			
Ethanol	18.1	0.94	0.068	ug/m³	18.8		96.3	70-130			
Ethyl acetate	29.1	1.8	0.11	ug/m³	36.0		80.8	70-130			
Ethylbenzene	37.6	0.87	0.082	ug/m³	43.4		86.5	70-130			
Hexachlorobutadiene	96.4	5.3	0.27	ug/m³	107		90.4	70-130			
Isopropyl alcohol	22.9	1.2	0.075	ug/m³	24.6		93.2	70-130			
m,p-Xylene	72.9	1.7	0.15	ug/m³	86.8		84.0	70-130			
Methyl butyl ketone	37.6	2.0	0.12	ug/m³	41.0		91.9	70-130			
Methyl isobutyl ketone	34.0	2.0	0.11	ug/m³	41.0		82.9	70-130			
Methyl tert-butyl ether	31.3	1.8	0.11	ug/m³	36.1		86.7	70-130			
Methylene chloride	31.1	1.7	0.21	ug/m³	34.7		89.4	70-130			
Naphthalene	52.4	2.6	0.11	ug/m³	55.0		95.1	70-130			
n-Heptane	35.4	2.0	0.078	ug/m³	41.0		86.4	70-130			
n-Hexane	29.5	1.8	0.074	ug/m³	35.2		83.7	70-130			
o-Xylene	36.9	0.87	0.096	ug/m³	43.4		85.0	70-130			
Propylene	17.0	0.86	0.027	ug/m³	17.2		98.6	70-130			
Styrene	37.3	2.1	0.096	ug/m³	42.6		87.6	70-130			
Tetrachloroethene	56.2	3.4	0.13	ug/m³	67.8		82.9	70-130			
Tetrahydrofuran	27.8	1.5	0.038	ug/m³	29.5		94.2	70-130			
Toluene	32.2	0.75	0.060	ug/m³	37.7		85.5	70-130			
trans-1,2-Dichloroethene	33.0	2.0	0.11	ug/m³	39.6		83.2	70-130			
trans-1,3-Dichloropropene	39.8	2.3	0.070	ug/m³	45.4		87.8	70-130			
Trichloroethene	46.8	1.1	0.12	ug/m³	53.7		87.0	70-130			



Fax: 651-642-1239

Landmark Environmental Project: TO-15

2042 West 98th Street Project Number: City of Rochester CRC Work Order #: 1600901 Bloomington, MN 55431 Project Manager: Mr. Jason Skramstad Date Reported: 03/09/16

VOC - AIR - Quality Control Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
Batch B6C0116 - TO-15											
LCS (B6C0116-BS1)					Prepared	l & Analyze	ed: 02/29/1	16			
Trichlorofluoromethane	52.7	2.8	0.048	ug/m³	56.2	,	93.8	70-130			
Trichlorotrifluoroethane	63.1	3.8	0.17	ug/m³	76.6		82.4	70-130			
Vinyl acetate	38.0	1.8	0.90	ug/m³	35.2		108	70-130			
Vinyl chloride	26.3	0.51	0.051	ug/m³	25.6		103	70-130			
Duplicate (B6C0116-DUP1)		Source: 1	1600901-0)1	Prepared	l: 02/29/16	Analyzed	I: 03/01/16	i		
1,1,1-Trichloroethane	< 2.7	2.7	0.044	ug/m³		<2.7	•		NA	25	
1,1,2,2-Tetrachloroethane	< 3.4	3.4	0.074	ug/m³		<3.4			NA	25	
1,1,2-Trichloroethane	< 2.7	2.7	0.11	ug/m³		<2.7			NA	25	
I,1-Dichloroethane	< 2.0	2.0	0.11	ug/m³		<2.0			NA	25	
1,1-Dichloroethene	< 2.0	2.0	0.078	ug/m³		<2.0			NA	25	
I,2,4-Trichlorobenzene	< 3.7	3.7	0.13	ug/m³		<3.7			NA	25	
,2,4-Trimethylbenzene	< 1.0	1.0	0.073	ug/m³		<1.0			NA	25	
,2-Dibromoethane	< 3.8	3.8	0.16	ug/m³		<3.8			NA	25	
,2-Dichlorobenzene	< 3.0	3.0	0.071	ug/m³		<3.0			NA	25	
,2-Dichloroethane	< 2.0	2.0	0.055	ug/m³		<2.0			NA	25	
,2-Dichloropropane	< 2.3	2.3	0.081	ug/m³		<2.3			NA	25	
,3,5-Trimethylbenzene	< 1.0	1.0	0.11	ug/m³		<1.0			NA	25	
,3-Butadiene	< 1.1	1.1	0.10	ug/m³		<1.1			NA	25	
,3-Dichlorobenzene	< 3.0	3.0	0.14	ug/m³		<3.0			NA	25	
,4-Dichlorobenzene	< 3.0	3.0	0.17	ug/m³		<3.0			NA	25	
2-Butanone	8.13	1.5	0.078	ug/m³		5.86			32.4	25	R8
-Ethyltoluene	< 2.5	2.5	0.11	ug/m³		<2.5			NA	25	
Acetone	61.0	18	0.82	ug/m³		64.0			4.83	25	
Benzene	0.859	0.64	0.050	ug/m³		0.783			9.32	25	
Benzyl chloride	< 2.6	2.6	0.073	ug/m³		<2.6			NA	25	
Bromodichloromethane	< 3.4	3.4	0.13	ug/m³		<3.4			NA	25	
Bromoform	< 5.2	5.2	0.13	ug/m³		<5.2			NA	25	
Bromomethane	< 1.9	1.9	0.069	ug/m³		<1.9			NA	25	
Carbon disulfide	< 1.6	1.6	0.070	ug/m³		<1.6			NA	25	
Carbon tetrachloride	< 3.1	3.1	0.087	ug/m³		<3.1			NA	25	
Chlorobenzene	< 2.3	2.3	0.080	ug/m³		<2.3			NA	25	
Chloroethane	< 1.3	1.3	0.037	ug/m³		<1.3			NA	25	
Chloroform	< 2.4	2.4	0.055	ug/m³		<2.4			NA	25	
Chloromethane	< 1.0	1.0	0.044	ug/m³		<1.0			NA	25	
sis-1,2-Dichloroethene	< 2.0	2.0	0.089	ug/m³		<2.0			NA	25	
sis-1,3-Dichloropropene	< 2.3	2.3	0.12	ug/m³		<2.3			NA	25	
Cyclohexane	< 1.7	1.7	0.059	ug/m³		<1.7			NA	25	
Dibromochloromethane	< 4.3	4.3	0.16	ug/m³		<4.3			NA	25	
Dichlorodifluoromethane	3.36	2.5	0.12	ug/m³		3.07			8.99	25	



Fax: 651-642-1239

Landmark Environmental Project: TO-15

2042 West 98th Street Project Number: City of Rochester CRC Work Order #: 1600901 Bloomington, MN 55431 Project Manager: Mr. Jason Skramstad Date Reported: 03/09/16

VOC - AIR - Quality Control Legend Technical Services, Inc.

Analyta	الم منالة	-	MD:	- I loite	Spike	Source	0/ DEC	%REC	0/ DDD	%RPD	Notes
Analyte	Result	RL	MDL	Units	Level	Result	%REC	Limits	%RPD	Limit	Notes
Batch B6C0116 - TO-15											
Duplicate (B6C0116-DUP1)	5	3ource: 1	1600901-0)1	Prepared	d: 02/29/16	Analyzed	1: 03/01/16			
Dichlorotetrafluoroethane	< 3.5	3.5	0.063	ug/m³		<3.5			NA	25	
Ethanol	361	14	1.0	ug/m³		335			7.34	25	
Ethyl acetate	4.95	1.8	0.11	ug/m³		3.66			30.0	25	R8
Ethylbenzene	2.85	0.87	0.082	ug/m³		1.84			42.9	25	R8
Hexachlorobutadiene	< 5.3	5.3	0.27	ug/m³		<5.3			NA	25	
Isopropyl alcohol	333	18	1.1	ug/m³		303			9.56	25	
m,p-Xylene	9.88	1.7	0.15	ug/m³		6.92			35.2	25	R8
Methyl butyl ketone	< 2.0	2.0	0.12	ug/m³		<2.0			NA	25	
Methyl isobutyl ketone	< 2.0	2.0	0.11	ug/m³		<2.0			NA	25	
Methyl tert-butyl ether	< 1.8	1.8	0.11	ug/m³		<1.8			NA	25	
Methylene chloride	2.34	1.7	0.21	ug/m³		2.18			7.31	25	
Naphthalene	< 2.6	2.6	0.11	ug/m³		<2.6			NA	25	
n-Heptane	< 2.0	2.0	0.078	ug/m³		<2.0			NA	25	
n-Hexane	2.81	1.8	0.074	ug/m³		2.57			8.91	25	
o-Xylene	3.38	0.87	0.096	ug/m³		2.37			35.3	25	R8
Propylene	< 0.86	0.86	0.027	ug/m³		<0.86			NA	25	
Styrene	< 2.1	2.1	0.096	ug/m³		<2.1			NA	25	
Tetrachloroethene	95.9	3.4	0.13	ug/m³		86.8			9.97	25	
Tetrahydrofuran	6.10	1.5	0.038	ug/m³		5.28			14.4	25	
Toluene	60.3	0.75	0.060	ug/m³		53.8			11.4	25	
trans-1,2-Dichloroethene	< 2.0	2.0	0.11	ug/m³		<2.0			NA	25	
trans-1,3-Dichloropropene	< 2.3	2.3	0.070	ug/m³		<2.3			NA	25	
Trichloroethene	< 1.1	1.1	0.12	ug/m³		<1.1			NA	25	
Trichlorofluoromethane	< 2.8	2.8	0.048	ug/m³		<2.8			NA	25	
Trichlorotrifluoroethane	60.1	3.8	0.17	ug/m³		56.3			6.52	25	
Vinyl acetate	< 1.8	1.8	0.90	ug/m³		<1.8			NA	25	
Vinyl chloride	< 0.51	0.51	0.051	ug/m³		<0.51			NA	25	



Fax: 651-642-1239

Landmark Environmental Project: TO-15

2042 West 98th Street Project Number: City of Rochester CRC Work Order #: 1600901 Bloomington, MN 55431 Project Manager: Mr. Jason Skramstad Date Reported: 03/09/16

Notes and Definitions

R8 Sample RPD exceeded the method acceptance limit.

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

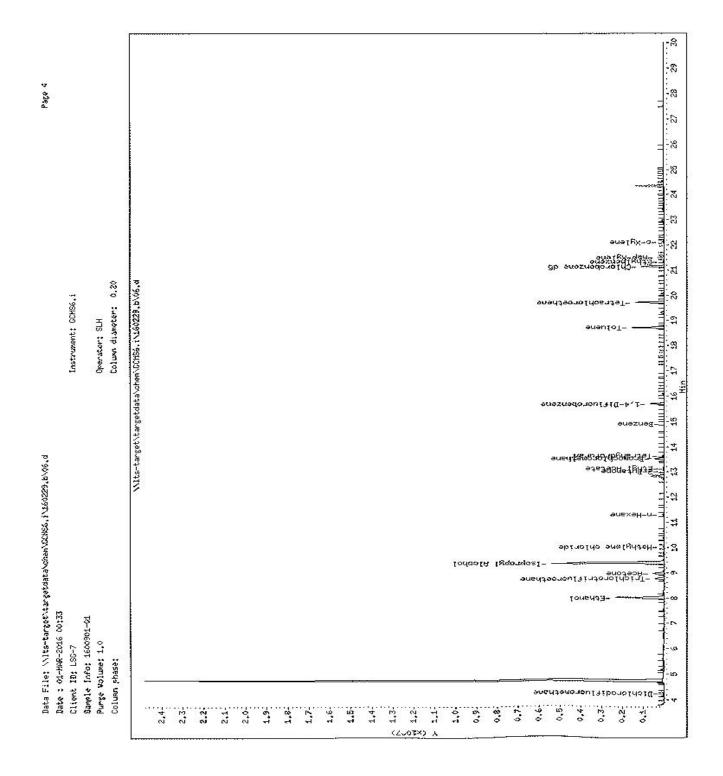
LCS Laboratory Control Spike = Blank Spike (BS) = Laboratory Fortified Blank (LFB)

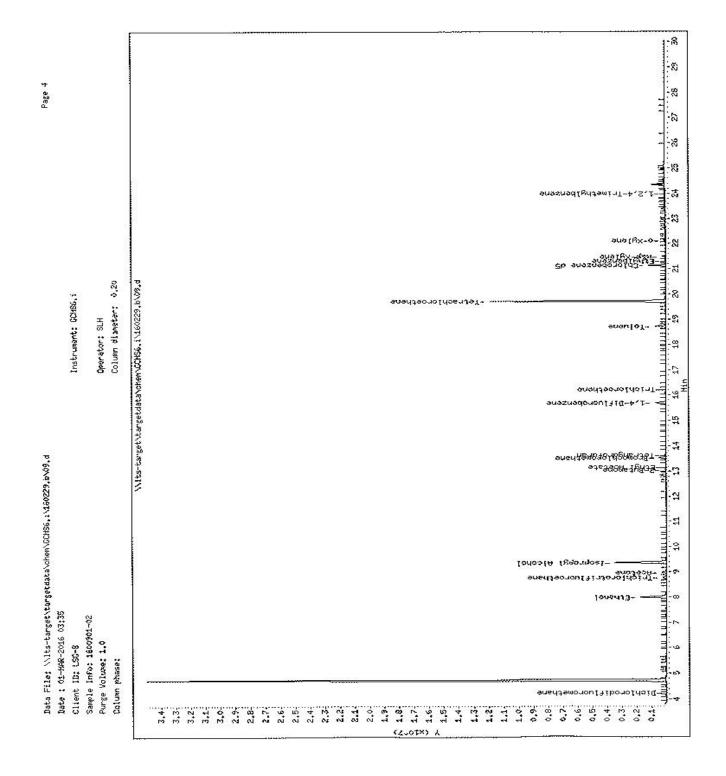
88 Empire Drive Tel: 651-642-1150

St Paul, MN 55103 Fax: 651-642-1239

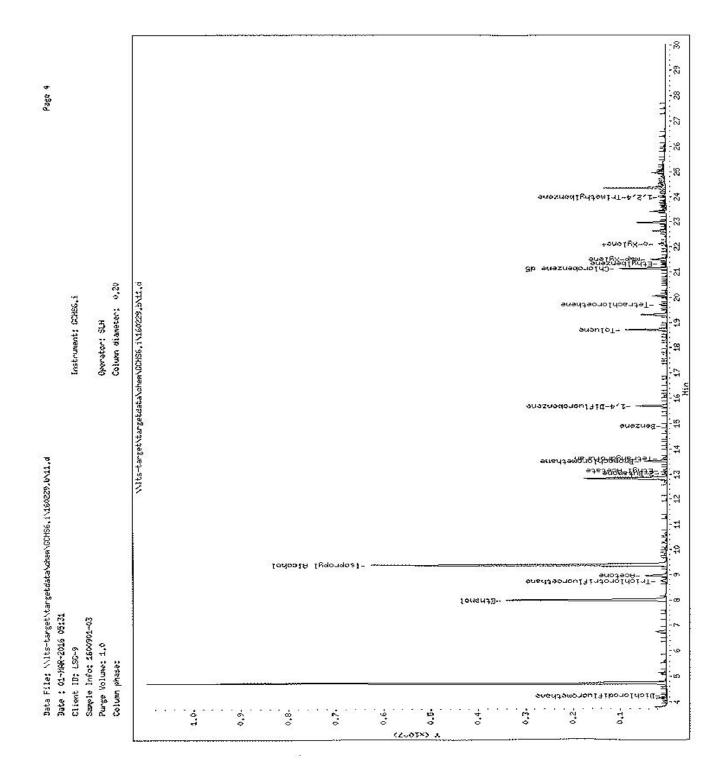
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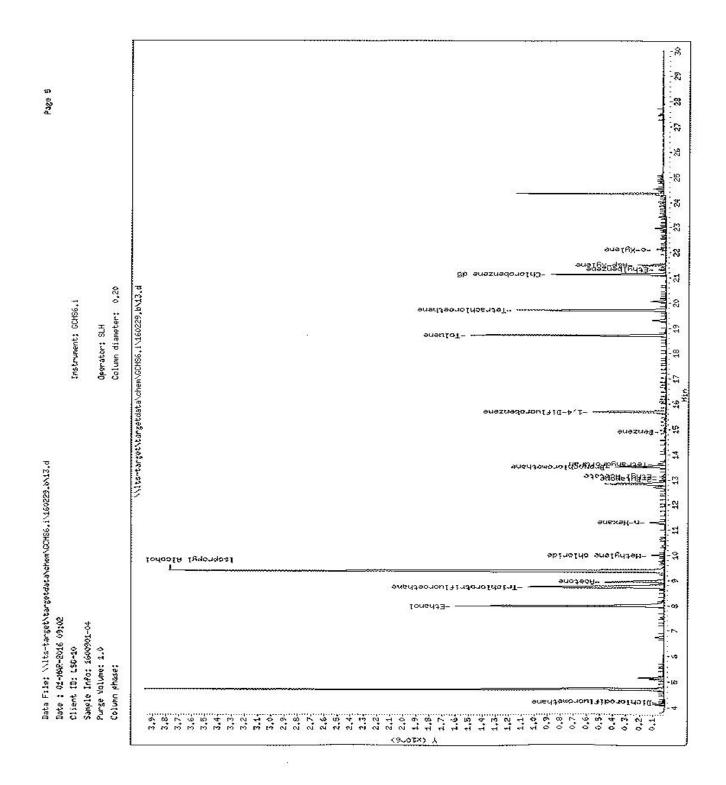




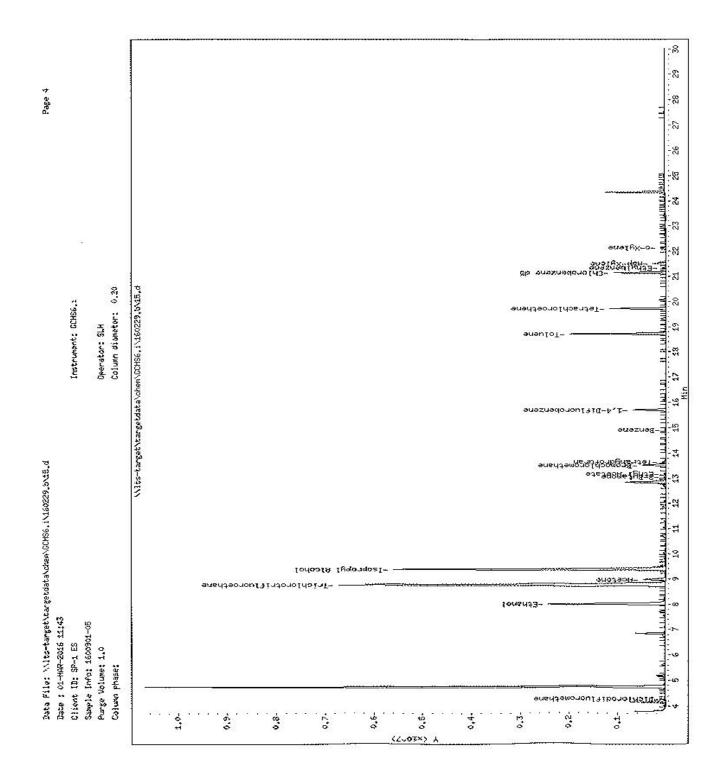




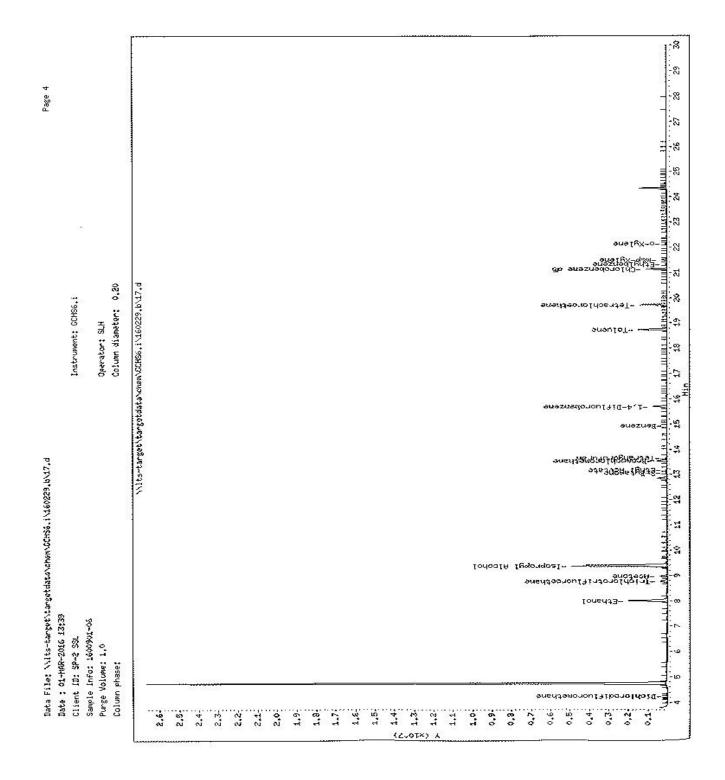




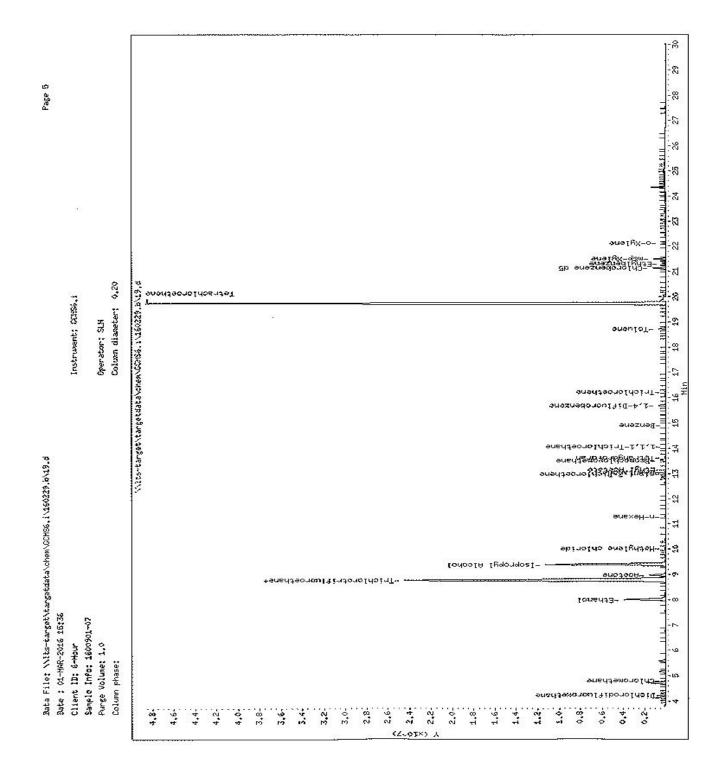














88 Empire Drive St Paul, MN 55103 Tel: 651-642-1150 Fax: 651-642-1239

April 13, 2016

Mr. Aaron Kuck Landmark Environmental 2042 West 98th Street Bloomington, MN 55431

Work Order Number: 1601431

RE: TO-15

Enclosed are the results of analyses for samples received by the laboratory on 03/31/16. 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. Additionally, all samples were received in acceptable condition unless otherwise noted.

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 Accreditation #027-123-295

Prepared by, LEGEND TECHNICAL SERVICES, INC

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



Fax: 651-642-1239

Landmark Environmental	Project:	TO-15		
2042 West 98th Street	Project Number:	Crc-City of Rochester	Work Order #:	1601431
Bloomington, MN 55431	Project Manager:	Mr. Aaron Kuck	Date Reported:	04/13/16

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
DPE-Exhaust	1601431-01	Air	03/30/16 21:18	03/31/16 11:40

Case Narrative:

Per the client's instructions, TICs were not included in this report.



Fax: 651-642-1239

Landmark Environmental Project: TO-15

2042 West 98th Street Project Number: Crc-City of Rochester Work Order #: 1601431 Bloomington, MN 55431 Project Manager: Mr. Aaron Kuck Date Reported: 04/13/16

VOC - AIR Legend Technical Services, Inc.

Analyte (CAS#)	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
DPE-Exhaust (1601431-01) Air	Received:03/31/10	5 11:40	Sampled:	03/30/16 21	1:18					
1,1,1-Trichloroethane (71-55-6)	10	2.7	0.044	ug/m³	1	B6D1119	04/11/16	04/11/16	TO-15	
1,1,2,2-Tetrachloroethane (79-34-5)	<3.4	3.4	0.074	ug/m³	1	"	"	"	"	
1,1,2-Trichloroethane (79-00-5)	<2.7	2.7	0.11	ug/m³	1	"	"	"	"	
1,1-Dichloroethane (75-34-3)	<2.0	2.0	0.11	ug/m³	1	"	"		"	
1,1-Dichloroethene (75-35-4)	<2.0	2.0	0.078	ug/m³	1	"	"	"	п	
1,2,4-Trichlorobenzene (120-82-1)	<3.7	3.7	0.13	ug/m³	1	"	"	"	"	
1,2,4-Trimethylbenzene (95-63-6)	<1.0	1.0	0.073	ug/m³	1	"	"		"	
1,2-Dibromoethane (106-93-4)	<3.8	3.8	0.16	ug/m³	1	"	"	"	"	
1,2-Dichlorobenzene (95-50-1)	<3.0	3.0	0.071	ug/m³	1	"	"	"	"	
1,2-Dichloroethane (107-06-2)	<2.0	2.0	0.055	ug/m³	1	"	"	"	"	
1,2-Dichloropropane (78-87-5)	<2.3	2.3	0.081	ug/m³	1	"	"		"	
1,3,5-Trimethylbenzene (108-67-8)	<1.0	1.0	0.11	ug/m³	1	"	"	"	"	
1,3-Butadiene (106-99-0)	<1.1	1.1	0.10	ug/m³	1	"	"	"	"	
1,3-Dichlorobenzene (541-73-1)	<3.0	3.0	0.14	ug/m³	1	"	"	"	"	
1,4-Dichlorobenzene (106-46-7)	<3.0	3.0	0.17	ug/m³	1	"	"	"	"	
2-Butanone (78-93-3)	6.9	1.5	0.078	ug/m³	1	"	"	"	"	
4-Ethyltoluene (622-96-8)	<2.5	2.5	0.11	ug/m³	1	"	"	"	"	
Acetone (67-64-1)	75	11	0.50	ug/m³	9	"	"	04/12/16	"	
Benzene (71-43-2)	1.1	0.64	0.050	ug/m³	1	"	"	04/11/16	"	
Benzyl chloride (100-44-7)	<2.6	2.6	0.073	ug/m³	1	"	"	"	"	
Bromodichloromethane (75-27-4)	<3.4	3.4	0.13	ug/m³	1	"	"	"	"	
Bromoform (75-25-2)	<5.2	5.2	0.13	ug/m³	1	"	"	"	"	
Bromomethane (74-83-9)	<1.9	1.9	0.069	ug/m³	1	"	"	"	"	
Carbon disulfide (75-15-0)	<1.6	1.6	0.070	ug/m³	1	"	"	"	"	
Carbon tetrachloride (56-23-5)	<3.1	3.1	0.087	ug/m³	1	"	"	"	"	
Chlorobenzene (108-90-7)	<2.3	2.3	0.080	ug/m³	1	"	"	"	"	
Chloroethane (75-00-3)	<1.3	1.3	0.037	ug/m³	1	"	"	"	"	
Chloroform (67-66-3)	3.0	2.4	0.055	ug/m³	1	"	"	"	"	
Chloromethane (74-87-3)	1.2	1.0	0.044	ug/m³	1	"	"	"	"	
cis-1,2-Dichloroethene (156-59-2)	20	2.0	0.089	ug/m³	1	"	"	"	"	
cis-1,3-Dichloropropene (10061-01-5)	<2.3	2.3	0.12	ug/m³	1	"	"	"	"	
Cyclohexane (110-82-7)	<1.7	1.7	0.059	ug/m³	1	"	"	"	"	
Dibromochloromethane (124-48-1)	<4.3	4.3	0.16	ug/m³	1	"	"	"	"	
Dichlorodifluoromethane (75-71-8)	<2.5	2.5	0.12	ug/m³	1	"	"	"	"	
Dichlorotetrafluoroethane (76-14-2)	<3.5	3.5	0.063	ug/m³	1	"	"	"	u	

Legend Technical Services, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Fax: 651-642-1139

Landmark Environmental Project: TO-15

2042 West 98th Street Project Number: Crc-City of Rochester Work Order #: 1601431
Bloomington, MN 55431 Project Manager: Mr. Aaron Kuck Date Reported: 04/13/16

Analyte (CAS#)	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes		
DPE-Exhaust (1601431-01) Air I	Received:03/31/1	6 11:40	Sampled:	Sampled:03/30/16 21:18								
Ethanol (64-17-5)	670	85	6.1	ug/m³	90	B6D1119	04/11/16	04/12/16	TO-15			
Ethyl acetate (141-78-6)	<1.8	1.8	0.11	ug/m³	1	"	"	04/11/16	"			
Ethylbenzene (100-41-4)	1.1	0.87	0.082	ug/m³	1	"	"	"	"			
Hexachlorobutadiene (87-68-3)	<5.3	5.3	0.27	ug/m³	1	"	"	"	"			
Isopropyl alcohol (67-63-0)	920	110	6.8	ug/m³	90	"	"	04/12/16	"			
m,p-Xylene (136777-61-2)	4.0	1.7	0.15	ug/m³	1	"	"	04/11/16	"			
Methyl butyl ketone (591-78-6)	<2.0	2.0	0.12	ug/m³	1	"	"	"	"			
Methyl isobutyl ketone (108-10-1)	<2.0	2.0	0.11	ug/m³	1	"	"	"	"			
Methyl tert-butyl ether (1634-04-4)	<1.8	1.8	0.11	ug/m³	1	"	"	"	"			
Methylene chloride (75-09-2)	4.2	1.7	0.21	ug/m³	1	"	"	"	"			
Naphthalene (91-20-3)	<2.6	2.6	0.11	ug/m³	1	"	"	"	"			
n-Heptane (142-82-5)	<2.0	2.0	0.078	ug/m³	1	"	"	"	"			
n-Hexane (110-54-3)	<1.8	1.8	0.074	ug/m³	1	"	"	"	"			
o-Xylene (95-47-6)	1.5	0.87	0.096	ug/m³	1	"	"	"	"			
Propylene (115-07-1)	<0.86	0.86	0.027	ug/m³	1	"	"	"	"			
Styrene (100-42-5)	<2.1	2.1	0.096	ug/m³	1	"	"	"	"			
Tetrachloroethene (127-18-4)	19000	610	23	ug/m³	180	"	"	04/12/16	"			
Tetrahydrofuran (109-99-9)	2.3	1.5	0.038	ug/m³	1	"	"	04/11/16	"			
Toluene (108-88-3)	40	0.75	0.060	ug/m³	1	"	"	"	"			
trans-1,2-Dichloroethene (156-60-5)	<2.0	2.0	0.11	ug/m³	1	"	"	"	"			
trans-1,3-Dichloropropene (10061-02-6) <2.3	2.3	0.070	ug/m³	1	"	"	"	"			
Trichloroethene (79-01-6)	13	1.1	0.12	ug/m³	1	"	"	"	II .			
Trichlorofluoromethane (75-69-4)	<2.8	2.8	0.048	ug/m³	1	"	"	"	II .			
Trichlorotrifluoroethane (76-13-1)	5300	340	15	ug/m³	90	"	"	04/12/16	II .			
Vinyl acetate (108-05-4)	<1.8	1.8	0.90	ug/m³	1	"	"	04/11/16	n .			
Vinyl chloride (75-01-4)	<0.51	0.51	0.051	ug/m³	1	"	"	"	"			



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Landmark Environmental Project: TO-15

2042 West 98th Street Project Number: Crc-City of Rochester Work Order #: 1601431
Bloomington, MN 55431 Project Manager: Mr. Aaron Kuck Date Reported: 04/13/16

VOC - AIR - Quality Control Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
Batch B6D1119 - TO-15											
Blank (B6D1119-BLK1)					Prepared	ł & Analyze	ed: 04/11/1	6			
1,1,1-Trichloroethane	< 2.7	2.7	0.044	ug/m³							
1,1,2,2-Tetrachloroethane	< 3.4	3.4	0.074	ug/m³							
1,1,2-Trichloroethane	< 2.7	2.7	0.11	ug/m³							
1,1-Dichloroethane	< 2.0	2.0	0.11	ug/m³							
1,1-Dichloroethene	< 2.0	2.0	0.078	ug/m³							
1,2,4-Trichlorobenzene	< 3.7	3.7	0.13	ug/m³							
1,2,4-Trimethylbenzene	< 1.0	1.0	0.073	ug/m³							
1,2-Dibromoethane	< 3.8	3.8	0.16	ug/m³							
1,2-Dichlorobenzene	< 3.0	3.0	0.071	ug/m³							
1,2-Dichloroethane	< 2.0	2.0	0.055	ug/m³							
1,2-Dichloropropane	< 2.3	2.3	0.081	ug/m³							
1,3,5-Trimethylbenzene	< 1.0	1.0	0.11	ug/m³							
1,3-Butadiene	< 1.1	1.1	0.10	ug/m³							
1,3-Dichlorobenzene	< 3.0	3.0	0.14	ug/m³							
1,4-Dichlorobenzene	< 3.0	3.0	0.17	ug/m³							
2-Butanone	< 1.5	1.5	0.078	ug/m³							
4-Ethyltoluene	< 2.5	2.5	0.11	ug/m³							
Acetone	< 1.2	1.2	0.055	ug/m³							
Benzene	< 0.64	0.64	0.050	ug/m³							
Benzyl chloride	< 2.6	2.6	0.073	ug/m³							
Bromodichloromethane	< 3.4	3.4	0.13	ug/m³							
Bromoform	< 5.2	5.2	0.13	ug/m³							
Bromomethane	< 1.9	1.9	0.069	ug/m³							
Carbon disulfide	< 1.6	1.6	0.070	ug/m³							
Carbon tetrachloride	< 3.1	3.1	0.087	ug/m³							
Chlorobenzene	< 2.3	2.3	0.080	ug/m³							
Chloroethane	< 1.3	1.3	0.037	ug/m³							
Chloroform	< 2.4	2.4	0.055	ug/m³							
Chloromethane	< 1.0	1.0	0.044	ug/m³							
cis-1,2-Dichloroethene	< 2.0	2.0	0.089	ug/m³							
cis-1,3-Dichloropropene	< 2.3	2.3	0.12	ug/m³							
Cyclohexane	< 1.7	1.7	0.059	ug/m³							
Dibromochloromethane	< 4.3	4.3	0.16	ug/m³							
Dichlorodifluoromethane	< 2.5	2.5	0.12	ug/m³							
Dichlorotetrafluoroethane	< 3.5	3.5	0.063	ug/m³							
Ethanol	< 0.94	0.94	0.068	ug/m³							
Ethyl acetate	< 1.8	1.8	0.11	ug/m³							
Ethylbenzene	< 0.87	0.87	0.082	ug/m³							
Hexachlorobutadiene	< 5.3	5.3	0.27	ug/m³							
Isopropyl alcohol	< 1.2	1.2	0.075	ug/m³							

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Landmark Environmental Project: TO-15

2042 West 98th Street Project Number: Crc-City of Rochester Work Order #: 1601431
Bloomington, MN 55431 Project Manager: Mr. Aaron Kuck Date Reported: 04/13/16

VOC - AIR - Quality Control Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
Batch B6D1119 - TO-15											
Blank (B6D1119-BLK1)					Prepared	l & Analyze	nd: 04/11/1	6			
m,p-Xylene	< 1.7	1.7	0.15	ug/m³	-	•					
Methyl butyl ketone	< 2.0	2.0	0.12	ug/m³							
Methyl isobutyl ketone	< 2.0	2.0	0.11	ug/m³							
Methyl tert-butyl ether	< 1.8	1.8	0.11	ug/m³							
Methylene chloride	< 1.7	1.7	0.21	ug/m³							
Naphthalene	< 2.6	2.6	0.11	ug/m³							
n-Heptane	< 2.0	2.0	0.078	ug/m³							
n-Hexane	< 1.8	1.8	0.074	ug/m³							
o-Xylene	< 0.87	0.87	0.096	ug/m³							
Propylene	< 0.86	0.86	0.027	ug/m³							
Styrene	< 2.1	2.1	0.096	ug/m³							
Tetrachloroethene	< 3.4	3.4	0.13	ug/m³							
Tetrahydrofuran	< 1.5	1.5	0.038	ug/m³							
Toluene	< 0.75	0.75	0.060	ug/m³							
trans-1,2-Dichloroethene	< 2.0	2.0	0.11	ug/m³							
trans-1,3-Dichloropropene	< 2.3	2.3	0.070	ug/m³							
Trichloroethene	< 1.1	1.1	0.12	ug/m³							
Trichlorofluoromethane	< 2.8	2.8	0.048	ug/m³							
Trichlorotrifluoroethane	< 3.8	3.8	0.17	ug/m³							
Vinyl acetate	< 1.8	1.8	0.90	ug/m³							
Vinyl chloride	< 0.51	0.51	0.051	ug/m³							
LCS (B6D1119-BS1)					Prepared	l & Analyze	ed: 04/11/1	6			
1,1,1-Trichloroethane	56.7	2.7	0.044	ug/m³	54.6		104	70-130			
1,1,2,2-Tetrachloroethane	60.1	3.4	0.074	ug/m³	68.6		87.5	70-130			
1,1,2-Trichloroethane	55.1	2.7	0.11	ug/m³	54.6		101	70-130			
1,1-Dichloroethane	42.9	2.0	0.11	ug/m³	40.5		106	70-130			
1,1-Dichloroethene	40.8	2.0	0.078	ug/m³	39.6		103	70-130			
1,2,4-Trichlorobenzene	67.9	3.7	0.13	ug/m³	74.2		91.5	70-130			
1,2,4-Trimethylbenzene	43.0	1.0	0.073	ug/m³	49.2		87.4	70-130			
1,2-Dibromoethane	77.6	3.8	0.16	ug/m³	76.8		101	70-130			
1,2-Dichlorobenzene	51.2	3.0	0.071	ug/m³	60.1		85.2	70-130			
1,2-Dichloroethane	39.3	2.0	0.055	ug/m³	40.5		97.0	70-130			
1,2-Dichloropropane	45.6	2.3	0.081	ug/m³	46.2		98.7	70-130			
1,3,5-Trimethylbenzene	41.8	1.0	0.11	ug/m³	49.2		85.1	70-130			
1,3-Butadiene	22.3	1.1	0.10	ug/m³	22.1		101	70-130			
1,3-Dichlorobenzene	52.9	3.0	0.14	ug/m³	60.1		88.0	70-130			
1,4-Dichlorobenzene	53.3	3.0	0.17	ug/m³	60.1		88.6	70-130			
2-Butanone	26.7	1.5	0.078	ug/m³	29.5		90.7	70-130			
4-Ethyltoluene	43.2	2.5	0.11	ug/m³	49.2		87.9	70-130			



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Landmark Environmental Project: TO-15

2042 West 98th Street Project Number: Crc-City of Rochester Work Order #: 1601431
Bloomington, MN 55431 Project Manager: Mr. Aaron Kuck Date Reported: 04/13/16

VOC - AIR - Quality Control Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
Batch B6D1119 - TO-15											
LCS (B6D1119-BS1)					Prepared	l & Analyze	ed: 04/11/1	6			
Acetone	29.2	1.2	0.055	ug/m³	23.8		123	70-130			
Benzene	33.2	0.64	0.050	ug/m³	31.9		104	70-130			
Benzyl chloride	48.5	2.6	0.073	ug/m³	51.8		93.7	70-130			
Bromodichloromethane	69.0	3.4	0.13	ug/m³	67.0		103	70-130			
Bromoform	97.4	5.2	0.13	ug/m³	103		94.2	70-130			
Bromomethane	43.9	1.9	0.069	ug/m³	38.8		113	70-130			
Carbon disulfide	33.0	1.6	0.070	ug/m³	31.1		106	70-130			
Carbon tetrachloride	66.1	3.1	0.087	ug/m³	62.9		105	70-130			
Chlorobenzene	43.7	2.3	0.080	ug/m³	46.0		95.0	70-130			
Chloroethane	27.7	1.3	0.037	ug/m³	26.4		105	70-130			
Chloroform	49.8	2.4	0.055	ug/m³	48.8		102	70-130			
Chloromethane	21.5	1.0	0.044	ug/m³	20.6		104	70-130			
cis-1,2-Dichloroethene	44.0	2.0	0.089	ug/m³	39.6		111	70-130			
cis-1,3-Dichloropropene	46.7	2.3	0.12	ug/m³	45.4		103	70-130			
Cyclohexane	34.8	1.7	0.059	ug/m³	34.4		101	70-130			
Dibromochloromethane	87.7	4.3	0.16	ug/m³	85.2		103	70-130			
Dichlorodifluoromethane	47.5	2.5	0.12	ug/m³	49.5		96.1	70-130			
Dichlorotetrafluoroethane	76.2	3.5	0.063	ug/m³	69.9		109	70-130			
Ethanol	20.2	0.94	0.068	ug/m³	18.8		107	70-130			
Ethyl acetate	33.4	1.8	0.11	ug/m³	36.0		92.6	70-130			
Ethylbenzene	40.8	0.87	0.082	ug/m³	43.4		94.0	70-130			
Hexachlorobutadiene	83.3	5.3	0.27	ug/m³	107		78.1	70-130			
Isopropyl alcohol	24.8	1.2	0.075	ug/m³	24.6		101	70-130			
m,p-Xylene	82.1	1.7	0.15	ug/m³	86.8		94.5	70-130			
Methyl butyl ketone	44.7	2.0	0.12	ug/m³	41.0		109	70-130			
Methyl isobutyl ketone	40.2	2.0	0.11	ug/m³	41.0		98.1	70-130			
Methyl tert-butyl ether	35.9	1.8	0.11	ug/m³	36.1		99.6	70-130			
Methylene chloride	41.3	1.7	0.21	ug/m³	34.7		119	70-130			
Naphthalene	49.4	2.6	0.11	ug/m³	55.0		89.8	70-130			
n-Heptane	41.8	2.0	0.078	ug/m³	41.0		102	70-130			
n-Hexane	37.7	1.8	0.074	ug/m³	35.2		107	70-130			
o-Xylene	40.2	0.87	0.096	ug/m³	43.4		92.6	70-130			
Propylene	16.5	0.86	0.027	ug/m³	17.2		95.9	70-130			
Styrene	39.6	2.1	0.096	ug/m³	42.6		92.9	70-130			
Tetrachloroethene	68.5	3.4	0.13	ug/m³	67.8		101	70-130			
Tetrahydrofuran	31.0	1.5	0.038	ug/m³	29.5		105	70-130			
Toluene	37.6	0.75	0.060	ug/m³	37.7		99.7	70-130			
trans-1,2-Dichloroethene	42.8	2.0	0.11	ug/m³	39.6		108	70-130			
trans-1,3-Dichloropropene	45.2	2.3	0.070	ug/m³	45.4		99.5	70-130			
Trichloroethene	53.7	1.1	0.12	ug/m³	53.7		100	70-130			

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Landmark Environmental Project: TO-15

2042 West 98th Street Project Number: Crc-City of Rochester Work Order #: 1601431
Bloomington, MN 55431 Project Manager: Mr. Aaron Kuck Date Reported: 04/13/16

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
Batch B6D1119 - TO-15											
LCS (B6D1119-BS1)					Prepared	I & Analyze	ed: 04/11/1	6			
Trichlorofluoromethane	62.9	2.8	0.048	ug/m³	56.2	•	112	70-130			
Trichlorotrifluoroethane	85.1	3.8	0.17	ug/m³	76.6		111	70-130			
√inyl acetate	37.0	1.8	0.90	ug/m³	35.2		105	70-130			
√inyl chloride	27.4	0.51	0.051	ug/m³	25.6		107	70-130			
Duplicate (B6D1119-DUP1)		Source: 1	1601540-0	1	Prepared	I & Analyze	ed: 04/11/1	6			
,1,1-Trichloroethane	< 2.7	2.7	0.044	ug/m³	•	<2.7			NA	25	
1,1,2,2-Tetrachloroethane	< 3.4	3.4	0.074	ug/m³		<3.4			NA	25	
,1,2-Trichloroethane	< 2.7	2.7	0.11	ug/m³		<2.7			NA	25	
,1-Dichloroethane	< 2.0	2.0	0.11	ug/m³		<2.0			NA	25	
,1-Dichloroethene	< 2.0	2.0	0.078	ug/m³		<2.0			NA	25	
,2,4-Trichlorobenzene	< 3.7	3.7	0.13	ug/m³		<3.7			NA	25	
,2,4-Trimethylbenzene	< 1.0	1.0	0.073	ug/m³		<1.0			NA	25	
,2-Dibromoethane	< 3.8	3.8	0.16	ug/m³		<3.8			NA	25	
,2-Dichlorobenzene	< 3.0	3.0	0.071	ug/m³		<3.0			NA	25	
,2-Dichloroethane	< 2.0	2.0	0.055	ug/m³		<2.0			NA	25	
,2-Dichloropropane	< 2.3	2.3	0.081	ug/m³		<2.3			NA	25	
,3,5-Trimethylbenzene	< 1.0	1.0	0.11	ug/m³		<1.0			NA	25	
,3-Butadiene	< 1.1	1.1	0.10	ug/m³		<1.1			NA	25	
,3-Dichlorobenzene	< 3.0	3.0	0.14	ug/m³		<3.0			NA	25	
,4-Dichlorobenzene	< 3.0	3.0	0.17	ug/m³		<3.0			NA	25	
-Butanone	< 1.5	1.5	0.078	ug/m³		<1.5			NA	25	
-Ethyltoluene	< 2.5	2.5	0.11	ug/m³		<2.5			NA	25	
cetone	8.45	1.2	0.055	ug/m³		8.33			1.42	25	
Benzene	< 0.64	0.64	0.050	ug/m³		< 0.64			NA	25	
senzyl chloride	< 2.6	2.6	0.073	ug/m³		<2.6			NA	25	
romodichloromethane	< 3.4	3.4	0.13	ug/m³		<3.4			NA	25	
Bromoform	< 5.2	5.2	0.13	ug/m³		<5.2			NA	25	
Bromomethane	< 1.9	1.9	0.069	ug/m³		<1.9			NA	25	
Carbon disulfide	< 1.6	1.6	0.070	ug/m³		<1.6			NA	25	
Carbon tetrachloride	< 3.1	3.1	0.087	ug/m³		<3.1			NA	25	
Chlorobenzene	< 2.3	2.3	0.080	ug/m³		<2.3			NA	25	
Chloroethane	< 1.3	1.3	0.037	ug/m³		<1.3			NA	25	
Chloroform	< 2.4	2.4	0.055	ug/m³		<2.4			NA	25	
Chloromethane	< 1.0	1.0	0.044	ug/m³		<1.0			NA	25	
is-1,2-Dichloroethene	< 2.0	2.0	0.089	ug/m³		<2.0			NA	25	
is-1,3-Dichloropropene	< 2.3	2.3	0.12	ug/m³		<2.3			NA	25	
Cyclohexane	< 1.7	1.7	0.059	ug/m³		<1.7			NA	25	
Dibromochloromethane	< 4.3	4.3	0.16	ug/m³		<4.3			NA	25	
Dichlorodifluoromethane	< 2.5	2.5	0.12	ug/m³		<2.5			NA	25	



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Landmark Environmental Project: TO-15

2042 West 98th Street Project Number: Crc-City of Rochester Work Order #: 1601431 Bloomington, MN 55431 Project Manager: Mr. Aaron Kuck Date Reported: 04/13/16

Analys	D "	D.	MDI	1.1-21	Spike	Source	0/ DEC	%REC	0/ DDC	%RPD	Neter
Analyte	Result	RL	MDL	Units	Level	Result	%REC	Limits	%RPD	Limit	Notes
Batch B6D1119 - TO-15											
Duplicate (B6D1119-DUP1)	,	Source: 1	601540-0)1	Prepared	ł & Analyze	ed: 04/11/1	6			
Dichlorotetrafluoroethane	< 3.5	3.5	0.063	ug/m³		<3.5			NA	25	
Ethanol	1.08	0.94	0.068	ug/m³		1.16			7.21	25	
Ethyl acetate	< 1.8	1.8	0.11	ug/m³		<1.8			NA	25	
Ethylbenzene	< 0.87	0.87	0.082	ug/m³		<0.87			NA	25	
Hexachlorobutadiene	< 5.3	5.3	0.27	ug/m³		<5.3			NA	25	
Isopropyl alcohol	4.65	1.2	0.075	ug/m³		5.03			7.79	25	
m,p-Xylene	< 1.7	1.7	0.15	ug/m³		<1.7			NA	25	
Methyl butyl ketone	< 2.0	2.0	0.12	ug/m³		<2.0			NA	25	
Methyl isobutyl ketone	< 2.0	2.0	0.11	ug/m³		<2.0			NA	25	
Methyl tert-butyl ether	< 1.8	1.8	0.11	ug/m³		<1.8			NA	25	
Methylene chloride	1.78	1.7	0.21	ug/m³		1.75			1.73	25	
Naphthalene	< 2.6	2.6	0.11	ug/m³		<2.6			NA	25	
n-Heptane	< 2.0	2.0	0.078	ug/m³		<2.0			NA	25	
n-Hexane	< 1.8	1.8	0.074	ug/m³		<1.8			NA	25	
o-Xylene	< 0.87	0.87	0.096	ug/m³		<0.87			NA	25	
Propylene	< 0.86	0.86	0.027	ug/m³		<0.86			NA	25	
Styrene	< 2.1	2.1	0.096	ug/m³		<2.1			NA	25	
Tetrachloroethene	< 3.4	3.4	0.13	ug/m³		<3.4			NA	25	
Tetrahydrofuran	< 1.5	1.5	0.038	ug/m³		<1.5			NA	25	
Toluene	< 0.75	0.75	0.060	ug/m³		< 0.75			NA	25	
trans-1,2-Dichloroethene	< 2.0	2.0	0.11	ug/m³		<2.0			NA	25	
trans-1,3-Dichloropropene	< 2.3	2.3	0.070	ug/m³		<2.3			NA	25	
Trichloroethene	< 1.1	1.1	0.12	ug/m³		<1.1			NA	25	
Trichlorofluoromethane	< 2.8	2.8	0.048	ug/m³		<2.8			NA	25	
Trichlorotrifluoroethane	< 3.8	3.8	0.17	ug/m³		<3.8			NA	25	
Vinyl acetate	< 1.8	1.8	0.90	ug/m³		<1.8			NA	25	
Vinyl chloride	< 0.51	0.51	0.051	ug/m³		<0.51			NA	25	



Fax: 651-642-1239

Landmark Environmental	Project:	IO-15		
2042 West 98th Street	Project Number:	Crc-City of Rochester	Work Order #:	1601431
Bloomington, MN 55431	Project Manager:	Mr. Aaron Kuck	Date Reported:	04/13/16

Notes and Definitions

Less than value listed

NA Not applicable. The %RPD is not calculated from values less than the reporting limit.

MDL Method Detection Limit

RLReporting Limit

RPD Relative Percent Difference

LCS Laboratory Control Spike = Blank Spike (BS) = Laboratory Fortified Blank (LFB)

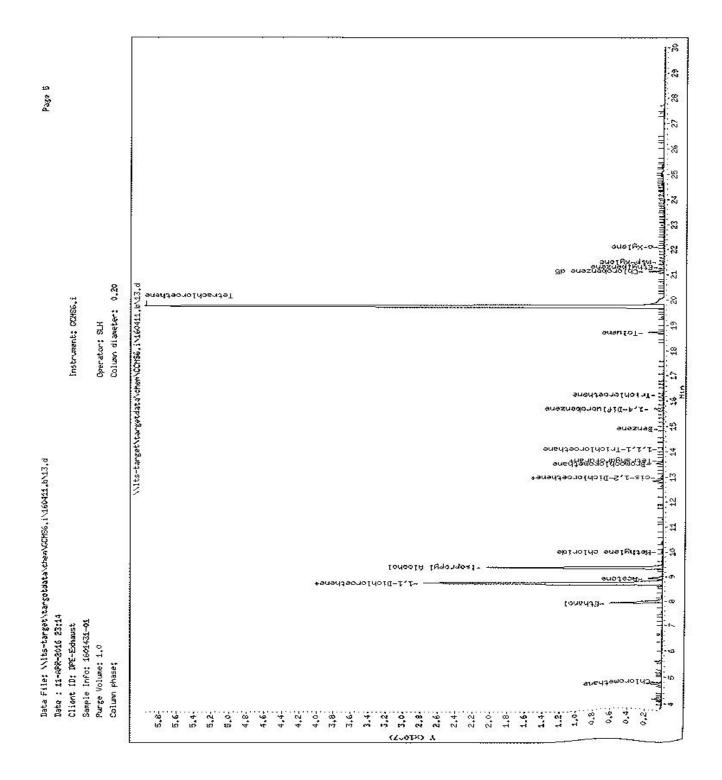
88 Empire Drive St Paul, MN 55103 Tel: 651-642-1150 Fax: 651-642-1239

TO-15 (M) w/ TICs Air Analysis Sample Comments Pink Copy - Customer or Field Copy Climit Propert Harms Cre-City of Rochest LEGEND TECHNICAL SERVICES, INC 88 Empire Drive, St. Paul, MN 55103 - Telephone: 651-542-1150, Fax: 651-642-1239 CHAIN-OF-CUSTODY RECORD 20.7 Reading PLEASE REVIEW TERMS AND CONDITIONS ON BACK BEFORE SIGNING Received by Liftx RUSH courte gusp 55.6 Total Part Yellow Copy - Lab Requested Due Date 21:18 ESSEND Proporte Stop Time Colorand Furn Around Time 3/1/16 M 51:51 91 06/5 Start 調の Date White Copy - Original Ancompanies Shipment to Lab 0 Presumer ("Hgg Shop Star 20 Flow Controller Serial # 4224 BILTO E-mail: # Od Serial# 39 Environmental Client Name. Landmark Aaron Kuck Shannon Bussell Flaid ID / Sampler ID OF - Exhaust Form LAB-364.2 (05/14) 18



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

May 05, 2016

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

Work Order Number: 1601751

RE: TO-15

Enclosed are the results of analyses for samples received by the laboratory on 04/22/16. 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. Additionally, all samples were received in acceptable condition unless otherwise noted.

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 Accreditation #027-123-295

Prepared by, LEGEND TECHNICAL SERVICES, INC

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



Fax: 651-642-1239

Landmark EnvironmentalProject:TO-152042 West 98th StreetProject Number:CrCWork Order #: 1601751Bloomington, MN 55431Project Manager:Mr. Jason SkramstadDate Reported: 05/05/16

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
DPE-Exhaust	1601751-01	Air	04/22/16 09:10	04/22/16 13:00

Case Narrative:

Per the client's instructions, TICs were not included in this report.



Fax: 651-642-1239

Landmark EnvironmentalProject:TO-152042 West 98th StreetProject Number:CrCWork Order #: 1601751Bloomington, MN 55431Project Manager:Mr. Jason SkramstadDate Reported: 05/05/16

VOC - AIR Legend Technical Services, Inc.

Analyte (CAS#)	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
DPE-Exhaust (1601751-01) Air	Received:04/22/1	6 13:00	Sampled:	04/22/16 0	9:10					
1,1,1-Trichloroethane (71-55-6)	<2.7	2.7	0.044	ug/m³	1	B6D2914	04/27/16	04/28/16	TO-15	
1,1,2,2-Tetrachloroethane (79-34-5)	<3.4	3.4	0.074	ug/m³	1	"	"		"	
1,1,2-Trichloroethane (79-00-5)	<2.7	2.7	0.11	ug/m³	1	"	"	"	"	
1,1-Dichloroethane (75-34-3)	<2.0	2.0	0.11	ug/m³	1	"	"	"	"	
1,1-Dichloroethene (75-35-4)	<2.0	2.0	0.078	ug/m³	1	II .	"	"	m .	
1,2,4-Trichlorobenzene (120-82-1)	<3.7	3.7	0.13	ug/m³	1	II .	"	"	m .	
1,2,4-Trimethylbenzene (95-63-6)	<1.0	1.0	0.073	ug/m³	1	"	"	"	"	
1,2-Dibromoethane (106-93-4)	<3.8	3.8	0.16	ug/m³	1	"	"	"	"	
1,2-Dichlorobenzene (95-50-1)	<3.0	3.0	0.071	ug/m³	1	"	"		"	
1,2-Dichloroethane (107-06-2)	<2.0	2.0	0.055	ug/m³	1	"	"	"	"	
1,2-Dichloropropane (78-87-5)	<2.3	2.3	0.081	ug/m³	1	"	"	"	"	
1,3,5-Trimethylbenzene (108-67-8)	<1.0	1.0	0.11	ug/m³	1	"	"	"	"	
1,3-Butadiene (106-99-0)	<1.1	1.1	0.10	ug/m³	1	"	"		"	
1,3-Dichlorobenzene (541-73-1)	<3.0	3.0	0.14	ug/m³	1	"	"		"	
1,4-Dichlorobenzene (106-46-7)	<3.0	3.0	0.17	ug/m³	1	"	"	"	"	
2-Butanone (78-93-3)	16	1.5	0.078	ug/m³	1	"	"	"	"	
4-Ethyltoluene (622-96-8)	<2.5	2.5	0.11	ug/m³	1	"	"	"	"	
Acetone (67-64-1)	58	3.6	0.16	ug/m³	3	"	"	04/29/16	"	
Benzene (71-43-2)	<0.64	0.64	0.050	ug/m³	1	"	"	04/28/16	"	
Benzyl chloride (100-44-7)	<2.6	2.6	0.073	ug/m³	1	"	"	"	"	
Bromodichloromethane (75-27-4)	<3.4	3.4	0.13	ug/m³	1	"	"		"	
Bromoform (75-25-2)	<5.2	5.2	0.13	ug/m³	1	"	"	"	"	
Bromomethane (74-83-9)	<1.9	1.9	0.069	ug/m³	1	"	"		"	
Carbon disulfide (75-15-0)	<1.6	1.6	0.070	ug/m³	1	"	"		"	
Carbon tetrachloride (56-23-5)	<3.1	3.1	0.087	ug/m³	1	"	"	"	"	
Chlorobenzene (108-90-7)	<2.3	2.3	0.080	ug/m³	1	"	"		"	
Chloroethane (75-00-3)	<1.3	1.3	0.037	ug/m³	1	"	"		"	
Chloroform (67-66-3)	<2.4	2.4	0.055	ug/m³	1	"	"		"	
Chloromethane (74-87-3)	1.4	1.0	0.044	ug/m³	1	"	"	"	"	
cis-1,2-Dichloroethene (156-59-2)	<2.0	2.0	0.089	ug/m³	1	"	"	"	"	
cis-1,3-Dichloropropene (10061-01-5)	<2.3	2.3	0.12	ug/m³	1	"	"		"	
Cyclohexane (110-82-7)	<1.7	1.7	0.059	ug/m³	1	"	"	"	"	
Dibromochloromethane (124-48-1)	<4.3	4.3	0.16	ug/m³	1	"	"	"	"	
Dichlorodifluoromethane (75-71-8)	12	2.5	0.12	ug/m³	1	"	"		"	
Dichlorotetrafluoroethane (76-14-2)	<3.5	3.5	0.063	ug/m³	1	"	"	"	"	

Legend Technical Services, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Fax: 651-642-1239

Landmark EnvironmentalProject:TO-152042 West 98th StreetProject Number:CrCBloomington, MN 55431Project Manager:Mr. Jason Skramstad

Work Order #: 1601751
Date Reported: 05/05/16

Analyte (CAS#)	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
DPE-Exhaust (1601751-01) Air	Received:04/22/1	6 13:00	Sampled:	04/22/16 09	9:10					
Ethanol (64-17-5)	420	28	2.0	ug/m³	30	B6D2914	04/27/16	04/29/16	TO-15	
Ethyl acetate (141-78-6)	<1.8	1.8	0.11	ug/m³	1	"	"	04/28/16	"	
Ethylbenzene (100-41-4)	<0.87	0.87	0.082	ug/m³	1	"	"	"	"	
Hexachlorobutadiene (87-68-3)	<5.3	5.3	0.27	ug/m³	1	"	"	"	"	
Isopropyl alcohol (67-63-0)	710	36	2.2	ug/m³	30	"	"	04/29/16	"	
m,p-Xylene (136777-61-2)	2.1	1.7	0.15	ug/m³	1	"	"	04/28/16	"	
Methyl butyl ketone (591-78-6)	<2.0	2.0	0.12	ug/m³	1	"	"	"	"	
Methyl isobutyl ketone (108-10-1)	<2.0	2.0	0.11	ug/m³	1	"	"	"	"	
Methyl tert-butyl ether (1634-04-4)	<1.8	1.8	0.11	ug/m³	1	"	"	"	"	
Methylene chloride (75-09-2)	5.3	1.7	0.21	ug/m³	1	"	"	"	"	
Naphthalene (91-20-3)	<2.6	2.6	0.11	ug/m³	1	"	"		"	
n-Heptane (142-82-5)	<2.0	2.0	0.078	ug/m³	1	"	"		"	
n-Hexane (110-54-3)	2.3	1.8	0.074	ug/m³	1	"	"		"	
o-Xylene (95-47-6)	0.90	0.87	0.096	ug/m³	1	"	"	"	"	
Propylene (115-07-1)	<0.86	0.86	0.027	ug/m³	1	"	"	"	"	
Styrene (100-42-5)	<2.1	2.1	0.096	ug/m³	1	"	"		"	
Tetrachloroethene (127-18-4)	5.8	3.4	0.13	ug/m³	1	"	"		"	
Tetrahydrofuran (109-99-9)	2.0	1.5	0.038	ug/m³	1	"	"		"	
Toluene (108-88-3)	3.6	0.75	0.060	ug/m³	1	"	"		"	
trans-1,2-Dichloroethene (156-60-5)	<2.0	2.0	0.11	ug/m³	1	"	"		"	
trans-1,3-Dichloropropene (10061-02-6	3) <2.3	2.3	0.070	ug/m³	1	n .	"	"	п	
Trichloroethene (79-01-6)	<1.1	1.1	0.12	ug/m³	1	n .	"	"	п	
Trichlorofluoromethane (75-69-4)	<2.8	2.8	0.048	ug/m³	1	n .	"	"	п	
Trichlorotrifluoroethane (76-13-1)	1900	110	5.1	ug/m³	30	"	"	04/29/16	п	
Vinyl acetate (108-05-4)	<1.8	1.8	0.90	ug/m³	1	n .	"	04/28/16	п	
Vinyl chloride (75-01-4)	<0.51	0.51	0.051	ug/m³	1	"	"	"	"	



Bloomington, MN 55431

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

Fax: 651-642-1239

Landmark Environmental Project: TO-15 2042 West 98th Street Project Number: CrC

Project Manager: Mr. Jason Skramstad

Work Order #: 1601751 Date Reported: 05/05/16

VOC - AIR - Quality Control Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
Batch B6D2914 - TO-15											
Blank (B6D2914-BLK1)					Prepared	l & Analyze	ed: 04/27/1	16			
1,1,1-Trichloroethane	< 2.7	2.7	0.044	ug/m³	·	•					
1,1,2,2-Tetrachloroethane	< 3.4	3.4	0.074	ug/m³							
1,1,2-Trichloroethane	< 2.7	2.7	0.11	ug/m³							
1,1-Dichloroethane	< 2.0	2.0	0.11	ug/m³							
1,1-Dichloroethene	< 2.0	2.0	0.078	ug/m³							
1,2,4-Trichlorobenzene	< 3.7	3.7	0.13	ug/m³							
1,2,4-Trimethylbenzene	< 1.0	1.0	0.073	ug/m³							
1,2-Dibromoethane	< 3.8	3.8	0.16	ug/m³							
1,2-Dichlorobenzene	< 3.0	3.0	0.071	ug/m³							
1,2-Dichloroethane	< 2.0	2.0	0.055	ug/m³							
1,2-Dichloropropane	< 2.3	2.3	0.081	ug/m³							
1,3,5-Trimethylbenzene	< 1.0	1.0	0.11	ug/m³							
1,3-Butadiene	< 1.1	1.1	0.10	ug/m³							
1,3-Dichlorobenzene	< 3.0	3.0	0.14	ug/m³							
1,4-Dichlorobenzene	< 3.0	3.0	0.17	ug/m³							
2-Butanone	< 1.5	1.5	0.078	ug/m³							
4-Ethyltoluene	< 2.5	2.5	0.11	ug/m³							
Acetone	< 1.2	1.2	0.055	ug/m³							
Benzene	< 0.64	0.64	0.050	ug/m³							
Benzyl chloride	< 2.6	2.6	0.073	ug/m³							
Bromodichloromethane	< 3.4	3.4	0.13	ug/m³							
Bromoform	< 5.2	5.2	0.13	ug/m³							
Bromomethane	< 1.9	1.9	0.069	ug/m³							
Carbon disulfide	< 1.6	1.6	0.070	ug/m³							
Carbon tetrachloride	< 3.1	3.1	0.087	ug/m³							
Chlorobenzene	< 2.3	2.3	0.080	ug/m³							
Chloroethane	< 1.3	1.3	0.037	ug/m³							
Chloroform	< 2.4	2.4	0.055	ug/m³							
Chloromethane	< 1.0	1.0	0.044	ug/m³							
cis-1,2-Dichloroethene	< 2.0	2.0	0.089	ug/m³							
cis-1,3-Dichloropropene	< 2.3	2.3	0.12	ug/m³							
Cyclohexane	< 1.7	1.7	0.059	ug/m³							
Dibromochloromethane	< 4.3	4.3	0.16	ug/m³							
Dichlorodifluoromethane	< 2.5	2.5	0.12	ug/m³							
Dichlorotetrafluoroethane	< 3.5	3.5	0.063	ug/m³							
Ethanol	< 0.94	0.94	0.068	ug/m³							
Ethyl acetate	< 1.8	1.8	0.11	ug/m³							
Ethylbenzene	< 0.87	0.87	0.082	ug/m³							
Hexachlorobutadiene	< 5.3	5.3	0.27	ug/m³							
Isopropyl alcohol	< 1.2	1.2	0.075	ug/m³							

Legend Technical Services, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Fax: 651-642-1239

Landmark EnvironmentalProject:TO-152042 West 98th StreetProject Number:CrCBloomington, MN 55431Project Manager:Mr. Jason Skramstad

Work Order #: 1601751
Date Reported: 05/05/16

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
Batch B6D2914 - TO-15											
Blank (B6D2914-BLK1)					Prenared	ł & Analyze	id: 04/27/1	6			
m,p-Xylene	< 1.7	1.7	0.15	ug/m³	. roparet	maiy2t	.w. U7/21/1	. •			
Methyl butyl ketone	< 1.7 < 2.0	2.0	0.15	ug/m³							
Methyl isobutyl ketone	< 2.0 < 2.0	2.0	0.12	ug/m³ ug/m³							
Methyl tert-butyl ether	< 2.0 < 1.8	1.8	0.11	ug/m³							
Methylene chloride	< 1.8 < 1.7	1.0	0.11	ug/m³							
Naphthalene	< 2.6	2.6	0.21	ug/m³							
n-Heptane	< 2.0	2.0	0.11	ug/m³							
n-Hexane	< 2.0 < 1.8	1.8	0.078	ug/m³							
o-Xylene	< 0.87	0.87	0.074	ug/m³							
o-xylene Propylene	< 0.87 < 0.86	0.87	0.096	ug/m³ ug/m³							
Propylene Styrene	< 0.86 < 2.1	2.1	0.027	ug/m³ ug/m³							
Tetrachloroethene	< 2.1 < 3.4	3.4	0.096	ug/m³							
Tetrahydrofuran	< 3.4 < 1.5	3.4 1.5	0.13	ug/m³ ug/m³							
Toluene	< 0.75	0.75	0.060	ug/m³							
trans-1,2-Dichloroethene	< 2.0	2.0	0.000	ug/m³							
trans-1,3-Dichloropropene	< 2.3	2.3	0.11	ug/m³							
Trichloroethene	< 1.1	1.1	0.070	ug/m³							
Trichlorofluoromethane	< 2.8	2.8	0.12	ug/m³							
Trichlorotrifluoroethane	< 3.8	3.8	0.048	ug/m³							
Vinyl acetate	< 1.8	1.8	0.17	ug/m³							
Vinyl chloride	< 0.51	0.51	0.051	ug/m³							
LCS (B6D2914-BS1)					Prepared	ł & Analyze	ed: 04/27/1	6			
1,1,1-Trichloroethane	56.7	2.7	0.044	ug/m³	54.6	,	104	70-130			
1,1,2,2-Tetrachloroethane	65.8	3.4	0.074	ug/m³	68.6		95.8	70-130			
1,1,2-Trichloroethane	53.1	2.7	0.11	ug/m³	54.6		97.4	70-130			
1,1-Dichloroethane	38.7	2.0	0.11	ug/m³	40.5		95.5	70-130			
1,1-Dichloroethene	37.5	2.0	0.078	ug/m³	39.6		94.6	70-130			
1,2,4-Trichlorobenzene	92.0	3.7	0.13	ug/m³	74.2		124	70-130			
1,2,4-Trimethylbenzene	48.1	1.0	0.073	ug/m³	49.2		97.8	70-130			
1,2-Dibromoethane	75.6	3.8	0.16	ug/m³	76.8		98.4	70-130			
1,2-Dichlorobenzene	59.5	3.0	0.071	ug/m³	60.1		99.0	70-130			
1,2-Dichloroethane	43.7	2.0	0.055	ug/m³	40.5		108	70-130			
1,2-Dichloropropane	46.2	2.3	0.081	ug/m³	46.2		100	70-130			
1,3,5-Trimethylbenzene	47.8	1.0	0.11	ug/m³	49.2		97.2	70-130			
1,3-Butadiene	22.3	1.1	0.10	ug/m³	22.1		101	70-130			
1,3-Dichlorobenzene	60.7	3.0	0.14	ug/m³	60.1		101	70-130			
1,4-Dichlorobenzene	61.3	3.0	0.17	ug/m³	60.1		102	70-130			
2-Butanone	26.2	1.5	0.17	ug/m³	29.5		88.8	70-130			
4-Ethyltoluene	48.2	2.5	0.11	ug/m³	49.2		98.0	70-130			



Fax: 651-642-1239

Landmark Environmental Project: TO-15
2042 West 98th Street Project Number: CrC

Bloomington, MN 55431 Project Manager: Mr. Jason Skramstad

Work Order #: 1601751
Date Reported: 05/05/16

VOC - AIR - Quality Control Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
Batch B6D2914 - TO-15											
LCS (B6D2914-BS1)					Prepared	l & Analyze	ed: 04/27/1	6			
Acetone	26.4	1.2	0.055	ug/m³	23.8	,	111	70-130			
Benzene	31.7	0.64	0.050	ug/m³	31.9		99.2	70-130			
Benzyl chloride	56.4	2.6	0.073	ug/m³	51.8		109	70-130			
Bromodichloromethane	69.0	3.4	0.13	ug/m³	67.0		103	70-130			
Bromoform	102	5.2	0.13	ug/m³	103		98.5	70-130			
Bromomethane	36.6	1.9	0.069	ug/m³	38.8		94.3	70-130			
Carbon disulfide	28.1	1.6	0.070	ug/m³	31.1		90.3	70-130			
Carbon tetrachloride	66.7	3.1	0.087	ug/m³	62.9		106	70-130			
Chlorobenzene	44.1	2.3	0.080	ug/m³	46.0		95.8	70-130			
Chloroethane	24.3	1.3	0.037	ug/m³	26.4		92.2	70-130			
Chloroform	48.8	2.4	0.055	ug/m³	48.8		100	70-130			
Chloromethane	19.3	1.0	0.044	ug/m³	20.6		93.4	70-130			
cis-1,2-Dichloroethene	37.1	2.0	0.089	ug/m³	39.6		93.6	70-130			
cis-1,3-Dichloropropene	46.3	2.3	0.12	ug/m³	45.4		102	70-130			
Cyclohexane	34.4	1.7	0.059	ug/m³	34.4		99.8	70-130			
Dibromochloromethane	86.9	4.3	0.16	ug/m³	85.2		102	70-130			
Dichlorodifluoromethane	48.5	2.5	0.12	ug/m³	49.5		98.0	70-130			
Dichlorotetrafluoroethane	64.0	3.5	0.063	ug/m³	69.9		91.6	70-130			
Ethanol	18.6	0.94	0.068	ug/m³	18.8		98.5	70-130			
Ethyl acetate	29.3	1.8	0.11	ug/m³	36.0		81.2	70-130			
Ethylbenzene	42.2	0.87	0.082	ug/m³	43.4		97.2	70-130			
Hexachlorobutadiene	106	5.3	0.27	ug/m³	107		99.7	70-130			
Isopropyl alcohol	23.4	1.2	0.075	ug/m³	24.6		95.1	70-130			
m,p-Xylene	85.1	1.7	0.15	ug/m³	86.8		98.0	70-130			
Methyl butyl ketone	44.7	2.0	0.12	ug/m³	41.0		109	70-130			
Methyl isobutyl ketone	39.3	2.0	0.11	ug/m³	41.0		95.9	70-130			
Methyl tert-butyl ether	34.4	1.8	0.11	ug/m³	36.1		95.3	70-130			
Methylene chloride	33.2	1.7	0.21	ug/m³	34.7		95.7	70-130			
Naphthalene	65.0	2.6	0.11	ug/m³	55.0		118	70-130			
n-Heptane	41.8	2.0	0.078	ug/m³	41.0		102	70-130			
n-Hexane	34.1	1.8	0.074	ug/m³	35.2		96.7	70-130			
o-Xylene	41.9	0.87	0.096	ug/m³	43.4		96.4	70-130			
Propylene	15.9	0.86	0.027	ug/m³	17.2		92.1	70-130			
Styrene	41.7	2.1	0.096	ug/m³	42.6		98.0	70-130			
Tetrachloroethene	66.7	3.4	0.13	ug/m³	67.8		98.4	70-130			
Tetrahydrofuran	32.4	1.5	0.038	ug/m³	29.5		110	70-130			
Toluene	37.3	0.75	0.060	ug/m³	37.7		98.9	70-130			
trans-1,2-Dichloroethene	37.5	2.0	0.11	ug/m³	39.6		94.5	70-130			
trans-1,3-Dichloropropene	46.3	2.3	0.070	ug/m³	45.4		102	70-130			
Trichloroethene	53.7	1.1	0.12	ug/m³	53.7		100	70-130			

Legend Technical Services, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Fax: 651-642-1239

Landmark EnvironmentalProject:TO-152042 West 98th StreetProject Number:CrCBloomington, MN 55431Project Manager:Mr. Jason Skramstad

Work Order #: 1601751
Date Reported: 05/05/16

Analyta	Daard	Di	MDI	مناما ا	Spike	Source	0/ DEC	%REC	0/ DDD	%RPD	Nate -
Analyte	Result	RL	MDL	Units	Level	Result	%REC	Limits	%RPD	Limit	Notes
Batch B6D2914 - TO-15											
LCS (B6D2914-BS1)					Prepared	ł & Analyze	ed: 04/27/1	16			
Trichlorofluoromethane	52.6	2.8	0.048	ug/m³	56.2		93.7	70-130			
Trichlorotrifluoroethane	71.1	3.8	0.17	ug/m³	76.6		92.8	70-130			
Vinyl acetate	35.9	1.8	0.90	ug/m³	35.2		102	70-130			
/inyl chloride	24.6	0.51	0.051	ug/m³	25.6		96.1	70-130			
Ouplicate (B6D2914-DUP1)	,	Source: 1	1601813-0)2	Prepared	l & Analyze	ed: 04/27/1	16			
,1,1-Trichloroethane	< 2.7	2.7	0.044	ug/m³	•	<2.7			NA	25	
,1,2,2-Tetrachloroethane	< 3.4	3.4	0.074	ug/m³		<3.4			NA	25	
,1,2-Trichloroethane	< 2.7	2.7	0.11	ug/m³		<2.7			NA	25	
,1-Dichloroethane	< 2.0	2.0	0.11	ug/m³		<2.0			NA	25	
,1-Dichloroethene	< 2.0	2.0	0.078	ug/m³		<2.0			NA	25	
,2,4-Trichlorobenzene	< 3.7	3.7	0.13	ug/m³		<3.7			NA	25	
,2,4-Trimethylbenzene	2.95	1.0	0.073	ug/m³		2.41			20.1	25	
,2-Dibromoethane	< 3.8	3.8	0.16	ug/m³		<3.8			NA	25	
2-Dichlorobenzene	< 3.0	3.0	0.071	ug/m³		<3.0			NA	25	
2-Dichloroethane	< 2.0	2.0	0.055	ug/m³		<2.0			NA	25	
2-Dichloropropane	< 2.3	2.3	0.081	ug/m³		<2.3			NA	25	
 3,5-Trimethylbenzene	1.14	1.0	0.11	ug/m³		<1.0			16.6	25	
,3-Butadiene	2.67	1.1	0.10	ug/m³		2.18			20.2	25	
3-Dichlorobenzene	< 3.0	3.0	0.14	ug/m³		<3.0			NA	25	
,4-Dichlorobenzene	< 3.0	3.0	0.17	ug/m³		<3.0			NA	25	
-Butanone	4.78	1.5	0.078	ug/m³		4.42			7.73	25	
-Ethyltoluene	< 2.5	2.5	0.11	ug/m³		<2.5			NA	25	
cetone	15.9	1.2	0.055	ug/m³		14.2			11.3	25	
enzene	2.75	0.64	0.050	ug/m³		2.64			4.34	25	
enzyl chloride	< 2.6	2.6	0.073	ug/m³		<2.6			NA	25	
romodichloromethane	< 3.4	3.4	0.13	ug/m³		<3.4			NA	25	
romoform	< 5.2	5.2	0.13	ug/m³		<5.2			NA	25	
romomethane	< 1.9	1.9	0.069	ug/m³		<1.9			NA	25	
arbon disulfide	2.10	1.6	0.070	ug/m³		2.15			2.35	25	
arbon tetrachloride	< 3.1	3.1	0.087	ug/m³		<3.1			NA	25	
hlorobenzene	< 2.3	2.3	0.080	ug/m³		<2.3			NA	25	
hloroethane	< 1.3	1.3	0.037	ug/m³		<1.3			NA	25	
hloroform	16.3	2.4	0.055	ug/m³		15.2			7.37	25	
hloromethane	< 1.0	1.0	0.044	ug/m³		<1.0			NA	25	
is-1,2-Dichloroethene	< 2.0	2.0	0.089	ug/m³		<2.0			NA	25	
is-1,3-Dichloropropene	< 2.3	2.3	0.12	ug/m³		<2.3			NA	25	
yclohexane	< 1.7	1.7	0.059	ug/m³		<1.7			NA	25	
ibromochloromethane	< 4.3	4.3	0.16	ug/m³		<4.3			NA	25	
Dichlorodifluoromethane	4.66	2.5	0.12	ug/m³		4.51			3.32	25	



Fax: 651-642-1239

Landmark Environmental Project: TO-15
2042 West 98th Street Project Number: CrC

2042 West 98th Street Project Number: CrC Work Order #: 1601751 Bloomington, MN 55431 Project Manager: Mr. Jason Skramstad Date Reported: 05/05/16

Analyte	D "	DI.	MDI	1.1-21	Spike	Source	0/ DEC	%REC	0/ DDD	%RPD	Neter
Analyte	Result	RL	MDL	Units	Level	Result	%REC	Limits	%RPD	Limit	Notes
Batch B6D2914 - TO-15											
Duplicate (B6D2914-DUP1)	•	Source: 1	601813-0)2	Prepared	ł & Analyze	ed: 04/27/1	16			
Dichlorotetrafluoroethane	< 3.5	3.5	0.063	ug/m³		<3.5			NA	25	
Ethanol	2.69	0.94	0.068	ug/m³		2.55			5.22	25	
Ethyl acetate	< 1.8	1.8	0.11	ug/m³		<1.8			NA	25	
Ethylbenzene	11.7	0.87	0.082	ug/m³		10.5			11.5	25	
Hexachlorobutadiene	< 5.3	5.3	0.27	ug/m³		<5.3			NA	25	
Isopropyl alcohol	3.57	1.2	0.075	ug/m³		3.39			4.99	25	
m,p-Xylene	41.1	1.7	0.15	ug/m³		36.9			10.9	25	
Methyl butyl ketone	< 2.0	2.0	0.12	ug/m³		<2.0			NA	25	
Methyl isobutyl ketone	2.96	2.0	0.11	ug/m³		2.69			9.43	25	
Methyl tert-butyl ether	< 1.8	1.8	0.11	ug/m³		<1.8			NA	25	
Methylene chloride	< 1.7	1.7	0.21	ug/m³		<1.7			NA	25	
Naphthalene	< 2.6	2.6	0.11	ug/m³		<2.6			NA	25	
n-Heptane	4.78	2.0	0.078	ug/m³		4.43			7.67	25	
n-Hexane	3.72	1.8	0.074	ug/m³		3.78			1.63	25	
o-Xylene	11.6	0.87	0.096	ug/m³		10.0			14.9	25	
Propylene	15.3	0.86	0.027	ug/m³		12.9			16.6	25	
Styrene	< 2.1	2.1	0.096	ug/m³		<2.1			NA	25	
Tetrachloroethene	< 3.4	3.4	0.13	ug/m³		<3.4			NA	25	
Tetrahydrofuran	< 1.5	1.5	0.038	ug/m³		<1.5			NA	25	
Toluene	22.6	0.75	0.060	ug/m³		22.0			2.87	25	
trans-1,2-Dichloroethene	< 2.0	2.0	0.11	ug/m³		<2.0			NA	25	
trans-1,3-Dichloropropene	< 2.3	2.3	0.070	ug/m³		<2.3			NA	25	
Trichloroethene	< 1.1	1.1	0.12	ug/m³		<1.1			NA	25	
Trichlorofluoromethane	< 2.8	2.8	0.048	ug/m³		<2.8			NA	25	
Trichlorotrifluoroethane	< 3.8	3.8	0.17	ug/m³		<3.8			NA	25	
Vinyl acetate	< 1.8	1.8	0.90	ug/m³		<1.8			NA	25	
Vinyl chloride	< 0.51	0.51	0.051	ug/m³		<0.51			NA	25	



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Landmark Environmental	Project:	TO-15		
2042 West 98th Street	Project Number:	CrC	Work Order #:	1601751
Bloomington, MN 55431	Project Manager:	Mr. Jason Skramstad	Date Reported:	05/05/16

Notes and Definitions

Less than value listed

NA Not applicable. The %RPD is not calculated from values less than the reporting limit.

MDL Method Detection Limit

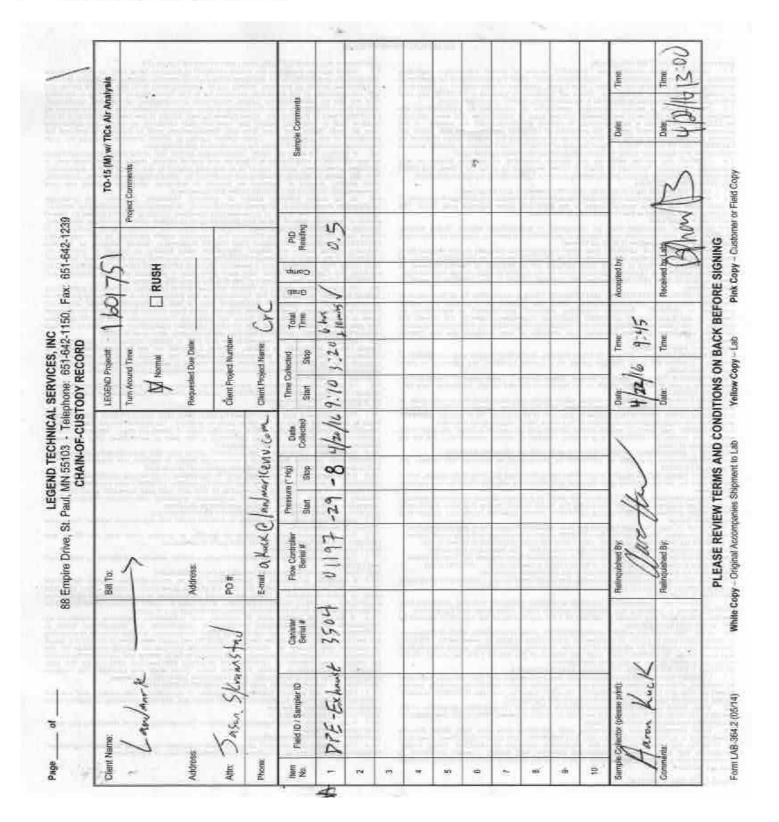
RL Reporting Limit

RPD Relative Percent Difference

LCS Laboratory Control Spike = Blank Spike (BS) = Laboratory Fortified Blank (LFB)

88 Empire Drive

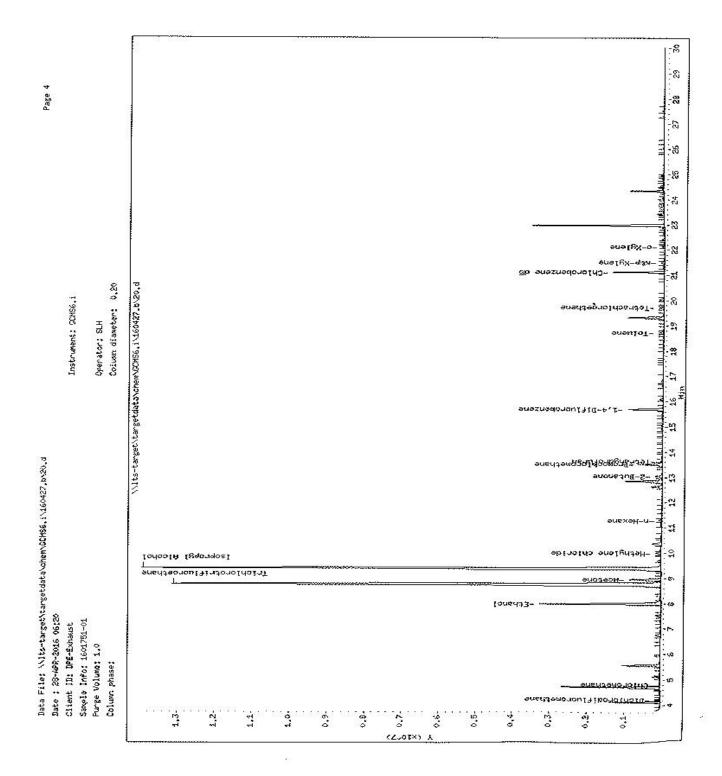
St Paul, MN 55103 Tel: 651-642-1150 Fax: 651-642-1239





88 Empire Drive St Paul, MN 55103

Tel: 651-642-1150 Fax: 651-642-1239





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

May 24, 2016

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

Work Order Number: 1602154

RE: TO-15

Enclosed are the results of analyses for samples received by the laboratory on 05/18/16. 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. Additionally, all samples were received in acceptable condition unless otherwise noted.

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 Accreditation #027-123-295

Prepared by, LEGEND TECHNICAL SERVICES, INC

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



Fax: 651-642-1239

Landmark EnvironmentalProject:TO-152042 West 98th StreetProject Number:CrCWork Order #: 1602154Bloomington, MN 55431Project Manager:Mr. Jason SkramstadDate Reported: 05/24/16

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
DPE-Exhaust	1602154-01	Air	05/18/16 14:00	05/18/16 16:20

Case Narrative:

Per the client's instructions, TICs were not included in this report.



Fax: 651-642-1239

Work Order #: 1602154

Landmark Environmental Project: TO-15 2042 West 98th Street Project Number: CrC Bloomington, MN 55431

Project Manager: Mr. Jason Skramstad Date Reported: 05/24/16

Analyte (CAS#)	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
DPE-Exhaust (1602154-01) Air	Received:05/18/16	3 16:20	Sampled:	:05/18/16 1	4:00					
1,1,1-Trichloroethane (71-55-6)	<2.7	2.7	0.044	ug/m³	1	B6E2417	05/18/16	05/18/16	TO-15	
1,1,2,2-Tetrachloroethane (79-34-5)	<3.4	3.4	0.074	ug/m³	1	"	"	"	"	
1,1,2-Trichloroethane (79-00-5)	<2.7	2.7	0.11	ug/m³	1	"	"	"	"	
1,1-Dichloroethane (75-34-3)	<2.0	2.0	0.11	ug/m³	1	"	"	"	"	
1,1-Dichloroethene (75-35-4)	<2.0	2.0	0.078	ug/m³	1	"	"	"	"	
1,2,4-Trichlorobenzene (120-82-1)	<3.7	3.7	0.13	ug/m³	1	"	"	"	"	
1,2,4-Trimethylbenzene (95-63-6)	<1.0	1.0	0.073	ug/m³	1	"	"	"	"	
1,2-Dibromoethane (106-93-4)	<3.8	3.8	0.16	ug/m³	1	"	"	"	"	
1,2-Dichlorobenzene (95-50-1)	<3.0	3.0	0.071	ug/m³	1	"	"	"	"	
1,2-Dichloroethane (107-06-2)	<2.0	2.0	0.055	ug/m³	1	"	"	"	"	
1,2-Dichloropropane (78-87-5)	<2.3	2.3	0.081	ug/m³	1	"	"	"	"	
1,3,5-Trimethylbenzene (108-67-8)	<1.0	1.0	0.11	ug/m³	1	"	"	"	"	
1,3-Butadiene (106-99-0)	<1.1	1.1	0.10	ug/m³	1	"	"	"	"	
1,3-Dichlorobenzene (541-73-1)	<3.0	3.0	0.14	ug/m³	1	"	"	"	"	
1,4-Dichlorobenzene (106-46-7)	<3.0	3.0	0.17	ug/m³	1	"	"	"	"	
2-Butanone (78-93-3)	1.7	1.5	0.078	ug/m³	1	"	"	"	"	
4-Ethyltoluene (622-96-8)	<2.5	2.5	0.11	ug/m³	1	"	"	"	"	
Acetone (67-64-1)	29	1.2	0.055	ug/m³	1	"	"	"	"	
Benzene (71-43-2)	0.79	0.64	0.050	ug/m³	1	"	"	"	"	
Benzyl chloride (100-44-7)	<2.6	2.6	0.073	ug/m³	1	"	"	"	"	
Bromodichloromethane (75-27-4)	<3.4	3.4	0.13	ug/m³	1	"	"	"	"	
Bromoform (75-25-2)	<5.2	5.2	0.13	ug/m³	1	"	"	"	"	
Bromomethane (74-83-9)	<1.9	1.9	0.069	ug/m³	1	"	"	"	"	
Carbon disulfide (75-15-0)	<1.6	1.6	0.070	ug/m³	1	"	"	"	"	
Carbon tetrachloride (56-23-5)	<3.1	3.1	0.087	ug/m³	1	"	"	"	"	
Chlorobenzene (108-90-7)	<2.3	2.3	0.080	ug/m³	1	"	"	"	"	
Chloroethane (75-00-3)	<1.3	1.3	0.037	ug/m³	1	"	"	"	"	
Chloroform (67-66-3)	<2.4	2.4	0.055	ug/m³	1	"	"	"	"	
Chloromethane (74-87-3)	1.1	1.0	0.044	ug/m³	1	"	"	"	"	
cis-1,2-Dichloroethene (156-59-2)	<2.0	2.0	0.089	ug/m³	1	"	"	"	"	
cis-1,3-Dichloropropene (10061-01-5)	<2.3	2.3	0.12	ug/m³	1	"	"	"	"	
Cyclohexane (110-82-7)	<1.7	1.7	0.059	ug/m³	1	"	"	"	"	
Dibromochloromethane (124-48-1)	<4.3	4.3	0.16	ug/m³	1	"	"	"	"	
Dichlorodifluoromethane (75-71-8)	<2.5	2.5	0.12	ug/m³	1	"	"	"	"	
Dichlorotetrafluoroethane (76-14-2)	<3.5	3.5	0.063	ug/m³	1	"	"	"	u	



Fax: 651-642-1239

Landmark Environmental Project: TO-15 2042 West 98th Street Project Number: CrC Bloomington, MN 55431

Project Manager: Mr. Jason Skramstad

Work Order #: 1602154 Date Reported: 05/24/16

Analyte (CAS#)	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
DPE-Exhaust (1602154-01) Air	Received:05/18/1	6 16:20	Sampled:	05/18/16 14	4:00					
Ethanol (64-17-5)	340	14	1.0	ug/m³	15	B6E2417	05/18/16	05/19/16	TO-15	
Ethyl acetate (141-78-6)	<1.8	1.8	0.11	ug/m³	1	"	"	05/18/16	"	
Ethylbenzene (100-41-4)	<0.87	0.87	0.082	ug/m³	1	"	"	"	"	
Hexachlorobutadiene (87-68-3)	<5.3	5.3	0.27	ug/m³	1	"	"	"	"	
Isopropyl alcohol (67-63-0)	540	18	1.1	ug/m³	15	"	"	05/19/16	"	
m,p-Xylene (136777-61-2)	1.9	1.7	0.15	ug/m³	1	"	"	05/18/16	"	
Methyl butyl ketone (591-78-6)	<2.0	2.0	0.12	ug/m³	1	"	"	"	"	
Methyl isobutyl ketone (108-10-1)	<2.0	2.0	0.11	ug/m³	1	"	"	"	"	
Methyl tert-butyl ether (1634-04-4)	<1.8	1.8	0.11	ug/m³	1	"	"	"	"	
Methylene chloride (75-09-2)	2.5	1.7	0.21	ug/m³	1	"	"	"	"	
Naphthalene (91-20-3)	<2.6	2.6	0.11	ug/m³	1	"	"	"	"	
n-Heptane (142-82-5)	<2.0	2.0	0.078	ug/m³	1	"	"	"	"	
n-Hexane (110-54-3)	<1.8	1.8	0.074	ug/m³	1	"	"	"	"	
o-Xylene (95-47-6)	<0.87	0.87	0.096	ug/m³	1	"	"	"	"	
Propylene (115-07-1)	<0.86	0.86	0.027	ug/m³	1	"	"	"	"	
Styrene (100-42-5)	<2.1	2.1	0.096	ug/m³	1	"	"	"	"	
Tetrachloroethene (127-18-4)	18	3.4	0.13	ug/m³	1	"	"	"	"	
Tetrahydrofuran (109-99-9)	2.3	1.5	0.038	ug/m³	1	"	"	"	"	
Toluene (108-88-3)	3.3	0.75	0.060	ug/m³	1	"	"	"	"	
trans-1,2-Dichloroethene (156-60-5)	<2.0	2.0	0.11	ug/m³	1	"	"	"	"	
trans-1,3-Dichloropropene (10061-02-6	6) <2.3	2.3	0.070	ug/m³	1	"	"	"	"	
Trichloroethene (79-01-6)	<1.1	1.1	0.12	ug/m³	1	"	"	"	"	
Trichlorofluoromethane (75-69-4)	<2.8	2.8	0.048	ug/m³	1	"	"	"	"	
Trichlorotrifluoroethane (76-13-1)	2100	57	2.6	ug/m³	15	"	"	05/19/16	"	
Vinyl acetate (108-05-4)	<1.8	1.8	0.90	ug/m³	1	"	"	05/18/16	п	
Vinyl chloride (75-01-4)	<0.51	0.51	0.051	ug/m³	1	"	"	"	n .	



Fax: 651-642-1239

Landmark EnvironmentalProject:TO-152042 West 98th StreetProject Number:CrCWork Order #: 1602154Bloomington, MN 55431Project Manager:Mr. Jason SkramstadDate Reported: 05/24/16

VOC - AIR - Quality Control Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
Batch B6E2417 - TO-15											
Blank (B6E2417-BLK1)					Prepared	l & Analyze	ed: 05/18/1	16			
1,1,1-Trichloroethane	< 2.7	2.7	0.044	ug/m³							
1,1,2,2-Tetrachloroethane	< 3.4	3.4	0.074	ug/m³							
1,1,2-Trichloroethane	< 2.7	2.7	0.11	ug/m³							
1,1-Dichloroethane	< 2.0	2.0	0.11	ug/m³							
1,1-Dichloroethene	< 2.0	2.0	0.078	ug/m³							
1,2,4-Trichlorobenzene	< 3.7	3.7	0.13	ug/m³							
1,2,4-Trimethylbenzene	< 1.0	1.0	0.073	ug/m³							
1,2-Dibromoethane	< 3.8	3.8	0.16	ug/m³							
1,2-Dichlorobenzene	< 3.0	3.0	0.071	ug/m³							
1,2-Dichloroethane	< 2.0	2.0	0.055	ug/m³							
1,2-Dichloropropane	< 2.3	2.3	0.081	ug/m³							
1,3,5-Trimethylbenzene	< 1.0	1.0	0.11	ug/m³							
1,3-Butadiene	< 1.1	1.1	0.10	ug/m³							
1,3-Dichlorobenzene	< 3.0	3.0	0.14	ug/m³							
1,4-Dichlorobenzene	< 3.0	3.0	0.17	ug/m³							
2-Butanone	< 1.5	1.5	0.078	ug/m³							
4-Ethyltoluene	< 2.5	2.5	0.11	ug/m³							
Acetone	< 1.2	1.2	0.055	ug/m³							
Benzene	< 0.64	0.64	0.050	ug/m³							
Benzyl chloride	< 2.6	2.6	0.073	ug/m³							
Bromodichloromethane	< 3.4	3.4	0.13	ug/m³							
Bromoform	< 5.2	5.2	0.13	ug/m³							
Bromomethane	< 1.9	1.9	0.069	ug/m³							
Carbon disulfide	< 1.6	1.6	0.070	ug/m³							
Carbon tetrachloride	< 3.1	3.1	0.087	ug/m³							
Chlorobenzene	< 2.3	2.3	0.080	ug/m³							
Chloroethane	< 1.3	1.3	0.037	ug/m³							
Chloroform	< 2.4	2.4	0.055	ug/m³							
Chloromethane	< 1.0	1.0	0.044	ug/m³							
cis-1,2-Dichloroethene	< 2.0	2.0	0.089	ug/m³							
cis-1,3-Dichloropropene	< 2.3	2.3	0.12	ug/m³							
Cyclohexane	< 1.7	1.7	0.059	ug/m³							
Dibromochloromethane	< 4.3	4.3	0.16	ug/m³							
Dichlorodifluoromethane	< 2.5	2.5	0.12	ug/m³							
Dichlorotetrafluoroethane	< 3.5	3.5	0.063	ug/m³							
Ethanol	< 0.94	0.94	0.068	ug/m³							
Ethyl acetate	< 1.8	1.8	0.11	ug/m³							
Ethylbenzene	< 0.87	0.87	0.082	ug/m³							
Hexachlorobutadiene	< 5.3	5.3	0.27	ug/m³							
Isopropyl alcohol	< 1.2	1.2	0.075	ug/m³							

Legend Technical Services, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Fax: 651-642-1239

Landmark EnvironmentalProject:TO-152042 West 98th StreetProject Number:CrCWork Order #: 1602154Bloomington, MN 55431Project Manager:Mr. Jason SkramstadDate Reported: 05/24/16

Analyta	Danill	DI	MDI	l loite	Spike	Source	0/ DEC	%REC	0/ DDD	%RPD	Nlate -
Analyte	Result	RL	MDL	Units	Level	Result	%REC	Limits	%RPD	Limit	Notes
Batch B6E2417 - TO-15											
Blank (B6E2417-BLK1)					Prepared	ł & Analyze	d: 05/18/1	6			
m,p-Xylene	< 1.7	1.7	0.15	ug/m³		-					
Methyl butyl ketone	< 2.0	2.0	0.12	ug/m³							
Methyl isobutyl ketone	< 2.0	2.0	0.11	ug/m³							
Methyl tert-butyl ether	< 1.8	1.8	0.11	ug/m³							
Methylene chloride	< 1.7	1.7	0.21	ug/m³							
Naphthalene	< 2.6	2.6	0.11	ug/m³							
n-Heptane	< 2.0	2.0	0.078	ug/m³							
n-Hexane	< 1.8	1.8	0.074	ug/m³							
o-Xylene	< 0.87	0.87	0.096	ug/m³							
Propylene	< 0.86	0.86	0.027	ug/m³							
Styrene	< 2.1	2.1	0.096	ug/m³							
Tetrachloroethene	< 3.4	3.4	0.13	ug/m³							
Tetrahydrofuran	< 1.5	1.5	0.038	ug/m³							
Toluene	< 0.75	0.75	0.060	ug/m³							
trans-1,2-Dichloroethene	< 2.0	2.0	0.11	ug/m³							
trans-1,3-Dichloropropene	< 2.3	2.3	0.070	ug/m³							
Trichloroethene	< 1.1	1.1	0.12	ug/m³							
Trichlorofluoromethane	< 2.8	2.8	0.048	ug/m³							
Trichlorotrifluoroethane	< 3.8	3.8	0.17	ug/m³							
Vinyl acetate	< 1.8	1.8	0.90	ug/m³							
Vinyl chloride	< 0.51	0.51	0.051	ug/m³							
LCS (B6E2417-BS1)					Prepared	ł & Analyze	d: 05/18/1	6			
1,1,1-Trichloroethane	56.2	2.7	0.044	ug/m³	54.6	•	103	70-130			
1,1,2,2-Tetrachloroethane	67.8	3.4	0.074	ug/m³	68.6		98.7	70-130			
1,1,2-Trichloroethane	54.5	2.7	0.11	ug/m³	54.6		99.8	70-130			
1,1-Dichloroethane	40.3	2.0	0.11	ug/m³	40.5		99.5	70-130			
1,1-Dichloroethene	39.6	2.0	0.078	ug/m³	39.6		99.8	70-130			
1,2,4-Trichlorobenzene	77.2	3.7	0.13	ug/m³	74.2		104	70-130			
1,2,4-Trimethylbenzene	49.2	1.0	0.073	ug/m³	49.2		100	70-130			
1,2-Dibromoethane	76.8	3.8	0.16	ug/m³	76.8		100	70-130			
1,2-Dichlorobenzene	60.0	3.0	0.071	ug/m³	60.1		99.8	70-130			
1,2-Dichloroethane	42.1	2.0	0.055	ug/m³	40.5		104	70-130			
1,2-Dichloropropane	46.2	2.3	0.081	ug/m³	46.2		100	70-130			
1,3,5-Trimethylbenzene	48.9	1.0	0.11	ug/m³	49.2		99.4	70-130			
1,3-Butadiene	22.8	1.1	0.10	ug/m³	22.1		103	70-130			
1,3-Dichlorobenzene	61.3	3.0	0.14	ug/m³	60.1		102	70-130			
1,4-Dichlorobenzene	62.5	3.0	0.17	ug/m³	60.1		104	70-130			
2-Butanone	24.2	1.5	0.078	ug/m³	29.5		82.0	70-130			
4-Ethyltoluene	49.2	2.5	0.11	ug/m³	49.2		100	70-130			



Fax: 651-642-1239

Landmark Environmental Project: TO-15
2042 West 98th Street Project Number: CrC
Bloomington, MN 55431 Project Manager: Mr. Jason Skramstad

Work Order #: 1602154

Date Reported: 05/24/16

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
Batch B6E2417 - TO-15											
LCS (B6E2417-BS1)					Prepared	l & Analyze	ed: 05/18/1	16			
Acetone	24.9	1.2	0.055	ug/m³	23.8	-	105	70-130			
Benzene	31.8	0.64	0.050	ug/m³	31.9		99.6	70-130			
Benzyl chloride	54.9	2.6	0.073	ug/m³	51.8		106	70-130			
Bromodichloromethane	69.0	3.4	0.13	ug/m³	67.0		103	70-130			
Bromoform	103	5.2	0.13	ug/m³	103		100	70-130			
Bromomethane	40.4	1.9	0.069	ug/m³	38.8		104	70-130			
Carbon disulfide	30.6	1.6	0.070	ug/m³	31.1		98.3	70-130			
Carbon tetrachloride	64.8	3.1	0.087	ug/m³	62.9		103	70-130			
Chlorobenzene	45.7	2.3	0.080	ug/m³	46.0		99.2	70-130			
Chloroethane	27.2	1.3	0.037	ug/m³	26.4		103	70-130			
Chloroform	51.3	2.4	0.055	ug/m³	48.8		105	70-130			
Chloromethane	20.5	1.0	0.044	ug/m³	20.6		99.2	70-130			
cis-1,2-Dichloroethene	38.7	2.0	0.089	ug/m³	39.6		97.7	70-130			
cis-1,3-Dichloropropene	45.4	2.3	0.12	ug/m³	45.4		100	70-130			
Cyclohexane	35.8	1.7	0.059	ug/m³	34.4		104	70-130			
Dibromochloromethane	86.9	4.3	0.16	ug/m³	85.2		102	70-130			
Dichlorodifluoromethane	47.7	2.5	0.12	ug/m³	49.5		96.4	70-130			
Dichlorotetrafluoroethane	69.6	3.5	0.063	ug/m³	69.9		99.5	70-130			
Ethanol	20.0	0.94	0.068	ug/m³	18.8		106	70-130			
Ethyl acetate	29.3	1.8	0.11	ug/m³	36.0		81.3	70-130			
Ethylbenzene	43.9	0.87	0.082	ug/m³	43.4		101	70-130			
Hexachlorobutadiene	102	5.3	0.27	ug/m³	107		95.6	70-130			
Isopropyl alcohol	25.1	1.2	0.075	ug/m³	24.6		102	70-130			
m,p-Xylene	88.6	1.7	0.15	ug/m³	86.8		102	70-130			
Methyl butyl ketone	47.1	2.0	0.12	ug/m³	41.0		115	70-130			
Methyl isobutyl ketone	41.8	2.0	0.11	ug/m³	41.0		102	70-130			
Methyl tert-butyl ether	35.9	1.8	0.11	ug/m³	36.1		99.6	70-130			
Methylene chloride	35.8	1.7	0.21	ug/m³	34.7		103	70-130			
Naphthalene	55.6	2.6	0.11	ug/m³	55.0		101	70-130			
n-Heptane	42.6	2.0	0.078	ug/m³	41.0		104	70-130			
n-Hexane	35.1	1.8	0.074	ug/m³	35.2		99.5	70-130			
o-Xylene	43.4	0.87	0.096	ug/m³	43.4		100	70-130			
Propylene	16.5	0.86	0.027	ug/m³	17.2		95.6	70-130			
Styrene	44.3	2.1	0.096	ug/m³	42.6		104	70-130			
Tetrachloroethene	67.1	3.4	0.13	ug/m³	67.8		99.0	70-130			
Tetrahydrofuran	31.9	1.5	0.038	ug/m³	29.5		108	70-130			
Toluene	38.4	0.75	0.060	ug/m³	37.7		102	70-130			
trans-1,2-Dichloroethene	39.3	2.0	0.11	ug/m³	39.6		99.0	70-130			
trans-1,3-Dichloropropene	46.3	2.3	0.070	ug/m³	45.4		102	70-130			
Trichloroethene	54.3	1.1	0.12	ug/m³	53.7		101	70-130			



Fax: 651-642-1239

Landmark Environmental Project: TO-15
2042 West 98th Street Project Number: CrC

Bloomington, MN 55431 Project Manager: Mr. Jason Skramstad

Work Order #: 1602154
Date Reported: 05/24/16

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
Batch B6E2417 - TO-15											
LCS (B6E2417-BS1)					Prepared	l & Analyze	ed: 05/18/1	16			
Trichlorofluoromethane	58.4	2.8	0.048	ug/m³	56.2	•	104	70-130			
Trichlorotrifluoroethane	74.7	3.8	0.17	ug/m³	76.6		97.5	70-130			
Vinyl acetate	37.3	1.8	0.90	ug/m³	35.2		106	70-130			
Vinyl chloride	26.1	0.51	0.051	ug/m³	25.6		102	70-130			
Duplicate (B6E2417-DUP1)	;	Source: 1	1602070-0)1	Prepared	I & Analyze	ed: 05/18/1	16			
1,1,1-Trichloroethane	< 2.7	2.7	0.044	ug/m³		<2.7			NA	25	
1,1,2,2-Tetrachloroethane	< 3.4	3.4	0.074	ug/m³		<3.4			NA	25	
1,1,2-Trichloroethane	< 2.7	2.7	0.11	ug/m³		<2.7			NA	25	
1,1-Dichloroethane	< 2.0	2.0	0.11	ug/m³		<2.0			NA	25	
,1-Dichloroethene	< 2.0	2.0	0.078	ug/m³		<2.0			NA	25	
,2,4-Trichlorobenzene	< 3.7	3.7	0.13	ug/m³		<3.7			NA	25	
,2,4-Trimethylbenzene	< 1.0	1.0	0.073	ug/m³		<1.0			NA	25	
,2-Dibromoethane	< 3.8	3.8	0.16	ug/m³		<3.8			NA	25	
,2-Dichlorobenzene	< 3.0	3.0	0.071	ug/m³		<3.0			NA	25	
,2-Dichloroethane	< 2.0	2.0	0.055	ug/m³		<2.0			NA	25	
,2-Dichloropropane	< 2.3	2.3	0.081	ug/m³		<2.3			NA	25	
,3,5-Trimethylbenzene	< 1.0	1.0	0.11	ug/m³		<1.0			NA	25	
,3-Butadiene	< 1.1	1.1	0.10	ug/m³		<1.1			NA	25	
,3-Dichlorobenzene	< 3.0	3.0	0.14	ug/m³		<3.0			NA	25	
,4-Dichlorobenzene	< 3.0	3.0	0.17	ug/m³		<3.0			NA	25	
-Butanone	< 1.5	1.5	0.078	ug/m³		<1.5			NA	25	
-Ethyltoluene	< 2.5	2.5	0.11	ug/m³		<2.5			NA	25	
cetone	31.5	1.2	0.055	ug/m³		31.6			0.467	25	
Benzene	< 0.64	0.64	0.050	ug/m³		< 0.64			NA	25	
senzyl chloride	< 2.6	2.6	0.073	ug/m³		<2.6			NA	25	
romodichloromethane	< 3.4	3.4	0.13	ug/m³		<3.4			NA	25	
Bromoform	< 5.2	5.2	0.13	ug/m³		<5.2			NA	25	
Bromomethane	< 1.9	1.9	0.069	ug/m³		<1.9			NA	25	
Carbon disulfide	< 1.6	1.6	0.070	ug/m³		<1.6			NA	25	
Carbon tetrachloride	< 3.1	3.1	0.087	ug/m³		<3.1			NA	25	
Chlorobenzene	< 2.3	2.3	0.080	ug/m³		<2.3			NA	25	
Chloroethane	< 1.3	1.3	0.037	ug/m³		<1.3			NA	25	
chloroform	< 2.4	2.4	0.055	ug/m³		<2.4			NA	25	
Chloromethane	1.11	1.0	0.044	ug/m³		1.17			5.93	25	
is-1,2-Dichloroethene	< 2.0	2.0	0.089	ug/m³		<2.0			NA	25	
sis-1,3-Dichloropropene	< 2.3	2.3	0.12	ug/m³		<2.3			NA	25	
Cyclohexane	< 1.7	1.7	0.059	ug/m³		<1.7			NA	25	
Dibromochloromethane	< 4.3	4.3	0.16	ug/m³		<4.3			NA	25	
Dichlorodifluoromethane	< 2.5	2.5	0.12	ug/m³		2.65				25	



Fax: 651-642-1239

Landmark Environmental Project: TO-15 2042 West 98th Street Project Number: CrC

Bloomington, MN 55431 Project Manager: Mr. Jason Skramstad Work Order #: 1602154 Date Reported: 05/24/16

Analyte	Desult	DI	MDI	I limite	Spike	Source	0/ DEC	%REC	0/ DDD	%RPD	Natas
Analyte	Result	RL	MDL	Units	Level	Result	%REC	Limits	%RPD	Limit	Notes
Batch B6E2417 - TO-15											
Duplicate (B6E2417-DUP1)	5	Source: 1	602070-0)1	Prepared	l & Analyze	ed: 05/18/1	6			
Dichlorotetrafluoroethane	< 3.5	3.5	0.063	ug/m³		<3.5			NA	25	
Ethanol	741	28	2.0	ug/m³		760			2.55	25	
Ethyl acetate	< 1.8	1.8	0.11	ug/m³		<1.8			NA	25	
Ethylbenzene	< 0.87	0.87	0.082	ug/m³		<0.87			NA	25	
Hexachlorobutadiene	< 5.3	5.3	0.27	ug/m³		<5.3			NA	25	
Isopropyl alcohol	667	36	2.2	ug/m³		679			1.89	25	
m,p-Xylene	< 1.7	1.7	0.15	ug/m³		<1.7			NA	25	
Methyl butyl ketone	< 2.0	2.0	0.12	ug/m³		<2.0			NA	25	
Methyl isobutyl ketone	< 2.0	2.0	0.11	ug/m³		<2.0			NA	25	
Methyl tert-butyl ether	< 1.8	1.8	0.11	ug/m³		<1.8			NA	25	
Methylene chloride	2.97	1.7	0.21	ug/m³		2.88			3.15	25	
Naphthalene	< 2.6	2.6	0.11	ug/m³		<2.6			NA	25	
n-Heptane	< 2.0	2.0	0.078	ug/m³		<2.0			NA	25	
n-Hexane	2.18	1.8	0.074	ug/m³		2.27			4.02	25	
o-Xylene	< 0.87	0.87	0.096	ug/m³		<0.87			NA	25	
Propylene	< 0.86	0.86	0.027	ug/m³		<0.86			NA	25	
Styrene	< 2.1	2.1	0.096	ug/m³		<2.1			NA	25	
Tetrachloroethene	< 3.4	3.4	0.13	ug/m³		<3.4			NA	25	
Tetrahydrofuran	< 1.5	1.5	0.038	ug/m³		<1.5			NA	25	
Toluene	1.39	0.75	0.060	ug/m³		1.39			0.0216	25	
trans-1,2-Dichloroethene	< 2.0	2.0	0.11	ug/m³		<2.0			NA	25	
trans-1,3-Dichloropropene	< 2.3	2.3	0.070	ug/m³		<2.3			NA	25	
Trichloroethene	< 1.1	1.1	0.12	ug/m³		<1.1			NA	25	
Trichlorofluoromethane	< 2.8	2.8	0.048	ug/m³		<2.8			NA	25	
Trichlorotrifluoroethane	< 3.8	3.8	0.17	ug/m³		<3.8			NA	25	
Vinyl acetate	< 1.8	1.8	0.90	ug/m³		<1.8			NA	25	
Vinyl chloride	< 0.51	0.51	0.051	ug/m³		<0.51			NA	25	



Fax: 651-642-1239

Landmark Environmental	Project:	TO-15		
2042 West 98th Street	Project Number:	CrC	Work Order #:	1602154
Bloomington, MN 55431	Project Manager:	Mr. Jason Skramstad	Date Reported:	05/24/16

Notes and Definitions

Less than value listed

NA Not applicable. The %RPD is not calculated from values less than the reporting limit.

MDL Method Detection Limit

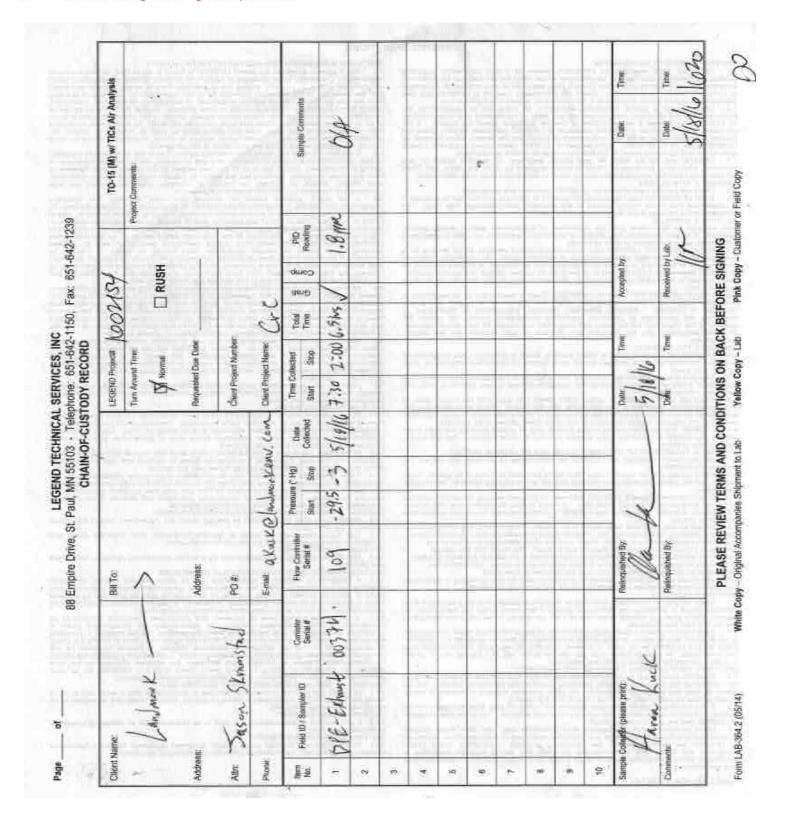
RL Reporting Limit

RPD Relative Percent Difference

LCS Laboratory Control Spike = Blank Spike (BS) = Laboratory Fortified Blank (LFB)

88 Empire Drive Tel: 651-642-1150

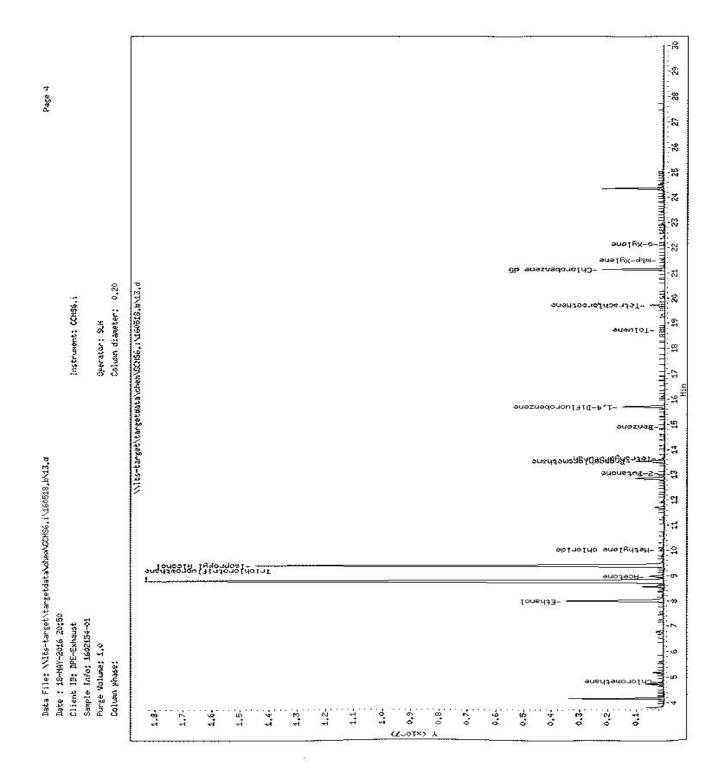
St Paul, MN 55103 Fax: 651-642-1239





88 Empire Drive St Paul, MN 55103

Tel: 651-642-1150 Fax: 651-642-1239





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

July 08, 2016

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

Work Order Number: 1602754

RE: TO-15

Enclosed are the results of analyses for samples received by the laboratory on 06/24/16. 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. Additionally, all samples were received in acceptable condition unless otherwise noted.

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 Accreditation #027-123-295

Prepared by, LEGEND TECHNICAL SERVICES, INC

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



Fax: 651-642-1239

Landmark Environmental	Project:	TO-15		
2042 West 98th Street	Project Number:	CrC	Work Order #:	1602754
Bloomington, MN 55431	Project Manager:	Mr. Jason Skramstad	Date Reported:	07/08/16

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
LSG-7	1602754-01	Air	06/23/16 12:51	06/24/16 12:50
LSG-8	1602754-02	Air	06/23/16 13:10	06/24/16 12:50
LSG-9	1602754-03	Air	06/23/16 12:13	06/24/16 12:50
LSG-10	1602754-04	Air	06/23/16 12:38	06/24/16 12:50
SP-1 (SSL)	1602754-05	Air	06/23/16 13:21	06/24/16 12:50
SP-2 (ES)	1602754-06	Air	06/23/16 11:27	06/24/16 12:50
DPE-Exhaust	1602754-07	Air	06/23/16 15:01	06/24/16 12:50

Case Narrative:

Hydrocarbon patterns were observed in samples LSG-7, LSG-8, and LSG-10 between the retention times of 22 and 28 minutes.

Per the client's instructions, TICs were not included in this report.



Fax: 651-642-1239

Landmark EnvironmentalProject:TO-152042 West 98th StreetProject Number:CrCWork Order #: 1602754Bloomington, MN 55431Project Manager:Mr. Jason SkramstadDate Reported: 07/08/16

VOC - AIR Legend Technical Services, Inc.

Analyte (CAS#)	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
LSG-7 (1602754-01) Air Received:0	06/24/16 12:50	Sampl	ed:06/23/1	6 12:51						
1,1,1-Trichloroethane (71-55-6)	<2.7	2.7	0.044	ug/m³	1	B6G0719	07/02/16	07/03/16	TO-15	
1,1,2,2-Tetrachloroethane (79-34-5)	<3.4	3.4	0.074	ug/m³	1	"	"	"	"	
1,1,2-Trichloroethane (79-00-5)	<2.7	2.7	0.11	ug/m³	1	"	"	"	"	
1,1-Dichloroethane (75-34-3)	<2.0	2.0	0.11	ug/m³	1	"	"	"	"	
1,1-Dichloroethene (75-35-4)	<2.0	2.0	0.078	ug/m³	1	"	"		"	
1,2,4-Trichlorobenzene (120-82-1)	<3.7	3.7	0.13	ug/m³	1	"	"		"	
1,2,4-Trimethylbenzene (95-63-6)	1.6	1.0	0.073	ug/m³	1	"	"		"	
1,2-Dibromoethane (106-93-4)	<3.8	3.8	0.16	ug/m³	1	"	"		"	
1,2-Dichlorobenzene (95-50-1)	<3.0	3.0	0.071	ug/m³	1	"	"		"	
1,2-Dichloroethane (107-06-2)	<2.0	2.0	0.055	ug/m³	1	"	"		"	
1,2-Dichloropropane (78-87-5)	<2.3	2.3	0.081	ug/m³	1	"	n .	"	II .	
1,3,5-Trimethylbenzene (108-67-8)	<1.0	1.0	0.11	ug/m³	1	"	n .	"	II .	
1,3-Butadiene (106-99-0)	1.2	1.1	0.10	ug/m³	1	n n	n .	"	II .	
1,3-Dichlorobenzene (541-73-1)	<3.0	3.0	0.14	ug/m³	1	"	n .	"	II .	
1,4-Dichlorobenzene (106-46-7)	<3.0	3.0	0.17	ug/m³	1	"	n .	"	II .	
2-Butanone (78-93-3)	3.1	1.5	0.078	ug/m³	1	n n	n .	"	II .	
4-Ethyltoluene (622-96-8)	<2.5	2.5	0.11	ug/m³	1	"	n .	"	II .	
Acetone (67-64-1)	51	11	0.50	ug/m³	9	"	"	07/04/16	"	
Benzene (71-43-2)	5.4	0.64	0.050	ug/m³	1	"	"	07/03/16	"	
Benzyl chloride (100-44-7)	<2.6	2.6	0.073	ug/m³	1	"	"		"	
Bromodichloromethane (75-27-4)	<3.4	3.4	0.13	ug/m³	1	"	n .	"	II .	
Bromoform (75-25-2)	<5.2	5.2	0.13	ug/m³	1	"	"	"	"	
Bromomethane (74-83-9)	<1.9	1.9	0.069	ug/m³	1	"	n .	"	II .	
Carbon disulfide (75-15-0)	<1.6	1.6	0.070	ug/m³	1	"	"		"	
Carbon tetrachloride (56-23-5)	<3.1	3.1	0.087	ug/m³	1	n n	"	"	п	
Chlorobenzene (108-90-7)	<2.3	2.3	0.080	ug/m³	1	n n	"	"	п	
Chloroethane (75-00-3)	<1.3	1.3	0.037	ug/m³	1	"	"	"	"	
Chloroform (67-66-3)	<2.4	2.4	0.055	ug/m³	1	n .	"	"	II .	
Chloromethane (74-87-3)	1.2	1.0	0.044	ug/m³	1	п	"	"	п	
cis-1,2-Dichloroethene (156-59-2)	<2.0	2.0	0.089	ug/m³	1	"	"	"	"	
cis-1,3-Dichloropropene (10061-01-5)	<2.3	2.3	0.12	ug/m³	1	n n	"	"	п	
Cyclohexane (110-82-7)	<1.7	1.7	0.059	ug/m³	1	n n	"	"	п	
Dibromochloromethane (124-48-1)	<4.3	4.3	0.16	ug/m³	1	n n	"	"	п	
Dichlorodifluoromethane (75-71-8)	2.7	2.5	0.12	ug/m³	1	n n	"	"	п	
Dichlorotetrafluoroethane (76-14-2)	<3.5	3.5	0.063	ug/m³	1	"	"	"	п	

Legend Technical Services, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Fax: 651-642-1239

Landmark EnvironmentalProject:TO-152042 West 98th StreetProject Number:CrCWork Order #: 1602754Bloomington, MN 55431Project Manager:Mr. Jason SkramstadDate Reported:07/08/16

Legend Technical Services, Inc.										
Analyte (CAS#)	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
LSG-7 (1602754-01) Air Received:06	/24/16 12:50	Samp	led:06/23/1	6 12:51						
Ethanol (64-17-5)	1200	85	6.1	ug/m³	90	B6G0719	07/02/16	07/04/16	TO-15	
Ethyl acetate (141-78-6)	2.0	1.8	0.11	ug/m³	1	"	m .	07/03/16	II .	
Ethylbenzene (100-41-4)	0.99	0.87	0.082	ug/m³	1	"	"	"	"	
Hexachlorobutadiene (87-68-3)	<5.3	5.3	0.27	ug/m³	1	"	"	"	"	
Isopropyl alcohol (67-63-0)	540	110	6.8	ug/m³	90	"	"	07/04/16	"	
m,p-Xylene (136777-61-2)	3.3	1.7	0.15	ug/m³	1	"	"	07/03/16	"	
Methyl butyl ketone (591-78-6)	<2.0	2.0	0.12	ug/m³	1	"	"	"	"	
Methyl isobutyl ketone (108-10-1)	<2.0	2.0	0.11	ug/m³	1	"	"	"	"	
Methyl tert-butyl ether (1634-04-4)	<1.8	1.8	0.11	ug/m³	1	"	"	"	"	
Methylene chloride (75-09-2)	2.4	1.7	0.21	ug/m³	1	"	"	"	"	
Naphthalene (91-20-3)	<2.6	2.6	0.11	ug/m³	1	"	"	"	"	
n-Heptane (142-82-5)	<2.0	2.0	0.078	ug/m³	1	"	"	"	"	
n-Hexane (110-54-3)	<1.8	1.8	0.074	ug/m³	1	"	"	"	"	
o-Xylene (95-47-6)	1.2	0.87	0.096	ug/m³	1	"	"	"	"	
Propylene (115-07-1)	<0.86	0.86	0.027	ug/m³	1	"	"	"	"	
Styrene (100-42-5)	<2.1	2.1	0.096	ug/m³	1	"	"	"	"	
Tetrachloroethene (127-18-4)	<3.4	3.4	0.13	ug/m³	1	"	"	"	"	
Tetrahydrofuran (109-99-9)	<1.5	1.5	0.038	ug/m³	1	"	"	"	"	
Toluene (108-88-3)	13	0.75	0.060	ug/m³	1	"	"	"	"	
trans-1,2-Dichloroethene (156-60-5)	<2.0	2.0	0.11	ug/m³	1	"	"	"	"	
trans-1,3-Dichloropropene (10061-02-6)	<2.3	2.3	0.070	ug/m³	1	"	"	"	"	
Trichloroethene (79-01-6)	<1.1	1.1	0.12	ug/m³	1	"	"	"	"	
Trichlorofluoromethane (75-69-4)	<2.8	2.8	0.048	ug/m³	1	"	"	"	"	
Trichlorotrifluoroethane (76-13-1)	<3.8	3.8	0.17	ug/m³	1	"	"	"	"	
Vinyl acetate (108-05-4)	<1.8	1.8	0.90	ug/m³	1	"	"	"	"	
Vinyl chloride (75-01-4)	<0.51	0.51	0.051	ug/m³	1	"	"	"	"	
LSG-8 (1602754-02) Air Received:06	/24/16 12:50	Samp	led:06/23/1	6 13:10						
1,1,1-Trichloroethane (71-55-6)	<2.7	2.7	0.044	ug/m³	1	B6G0719	07/02/16	07/03/16	TO-15	
1,1,2,2-Tetrachloroethane (79-34-5)	<3.4	3.4	0.074	ug/m³	1	"	m .	II .	II .	
1,1,2-Trichloroethane (79-00-5)	<2.7	2.7	0.11	ug/m³	1	"	m .	II .	II .	
1,1-Dichloroethane (75-34-3)	<2.0	2.0	0.11	ug/m³	1	"	m .	II .	II .	
1,1-Dichloroethene (75-35-4)	<2.0	2.0	0.078	ug/m³	1	"	"	"	"	
1,2,4-Trichlorobenzene (120-82-1)	<3.7	3.7	0.13	ug/m³	1	"	m .	II .	II .	
1,2,4-Trimethylbenzene (95-63-6)	1.7	1.0	0.073	ug/m³	1	"	"	m .	II .	
1,2-Dibromoethane (106-93-4)	<3.8	3.8	0.16	ug/m³	1	"	m .	II .	II .	



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Landmark EnvironmentalProject:TO-152042 West 98th StreetProject Number:CrCWork Order #: 1602754Bloomington, MN 55431Project Manager:Mr. Jason SkramstadDate Reported: 07/08/16

Analyte (CAS#)	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
LSG-8 (1602754-02) Air Received:0	6/24/16 12:50	Sampl	ed:06/23/1	6 13:10						
1,2-Dichlorobenzene (95-50-1)	<3.0	3.0	0.071	ug/m³	1	B6G0719	07/02/16	07/03/16	TO-15	
1,2-Dichloroethane (107-06-2)	<2.0	2.0	0.055	ug/m³	1	"	"	"	"	
1,2-Dichloropropane (78-87-5)	<2.3	2.3	0.081	ug/m³	1	"	"	"	"	
1,3,5-Trimethylbenzene (108-67-8)	<1.0	1.0	0.11	ug/m³	1	"	"	"	"	
1,3-Butadiene (106-99-0)	<1.1	1.1	0.10	ug/m³	1	"	"	"	"	
1,3-Dichlorobenzene (541-73-1)	<3.0	3.0	0.14	ug/m³	1	"	"	"	"	
1,4-Dichlorobenzene (106-46-7)	<3.0	3.0	0.17	ug/m³	1	"	"	"	"	
2-Butanone (78-93-3)	2.1	1.5	0.078	ug/m³	1	"	"	"	"	
4-Ethyltoluene (622-96-8)	<2.5	2.5	0.11	ug/m³	1	"	"	"	"	
Acetone (67-64-1)	21	1.2	0.055	ug/m³	1	"	"	"	"	
Benzene (71-43-2)	<0.64	0.64	0.050	ug/m³	1	"	"	"	"	
Benzyl chloride (100-44-7)	<2.6	2.6	0.073	ug/m³	1	"	"	"	"	
Bromodichloromethane (75-27-4)	<3.4	3.4	0.13	ug/m³	1	"	"	"	"	
Bromoform (75-25-2)	<5.2	5.2	0.13	ug/m³	1	"	"	"	"	
Bromomethane (74-83-9)	<1.9	1.9	0.069	ug/m³	1	"	"	"	"	
Carbon disulfide (75-15-0)	<1.6	1.6	0.070	ug/m³	1	"	"	"	"	
Carbon tetrachloride (56-23-5)	<3.1	3.1	0.087	ug/m³	1	"	"	"	"	
Chlorobenzene (108-90-7)	<2.3	2.3	0.080	ug/m³	1	"	"	"	"	
Chloroethane (75-00-3)	<1.3	1.3	0.037	ug/m³	1	"	"	"	"	
Chloroform (67-66-3)	<2.4	2.4	0.055	ug/m³	1	"	"	"	"	
Chloromethane (74-87-3)	<1.0	1.0	0.044	ug/m³	1	"	"	"	"	
cis-1,2-Dichloroethene (156-59-2)	<2.0	2.0	0.089	ug/m³	1	"	"	"	"	
cis-1,3-Dichloropropene (10061-01-5)	<2.3	2.3	0.12	ug/m³	1	"	"	"	"	
Cyclohexane (110-82-7)	<1.7	1.7	0.059	ug/m³	1	"	"	"	"	
Dibromochloromethane (124-48-1)	<4.3	4.3	0.16	ug/m³	1	"	"	"	"	
Dichlorodifluoromethane (75-71-8)	3.3	2.5	0.12	ug/m³	1	"	"	"	"	
Dichlorotetrafluoroethane (76-14-2)	<3.5	3.5	0.063	ug/m³	1	"	"		"	
Ethanol (64-17-5)	210	14	1.0	ug/m³	15	"	"	07/04/16	"	
Ethyl acetate (141-78-6)	4.7	1.8	0.11	ug/m³	1	"	"	07/03/16	"	
Ethylbenzene (100-41-4)	0.92	0.87	0.082	ug/m³	1	"	"	"	"	
Hexachlorobutadiene (87-68-3)	<5.3	5.3	0.27	ug/m³	1	"	"	"	"	
Isopropyl alcohol (67-63-0)	110	18	1.1	ug/m³	15	"	"	07/04/16	п	
m,p-Xylene (136777-61-2)	3.6	1.7	0.15	ug/m³	1	"	n .	07/03/16	п	
Methyl butyl ketone (591-78-6)	<2.0	2.0	0.12	ug/m³	1	"	"	"	п	
Methyl isobutyl ketone (108-10-1)	<2.0	2.0	0.11	ug/m³	1	"	"	"	"	



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Landmark EnvironmentalProject:TO-152042 West 98th StreetProject Number:CrCWork Order #: 1602754Bloomington, MN 55431Project Manager:Mr. Jason SkramstadDate Reported:07/08/16

Analyte (CAS#)	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
LSG-8 (1602754-02) Air Received:06	/24/16 12:50	Samp	led:06/23/1	6 13:10						
Methyl tert-butyl ether (1634-04-4)	<1.8	1.8	0.11	ug/m³	1	B6G0719	07/02/16	07/03/16	TO-15	
Methylene chloride (75-09-2)	1.8	1.7	0.21	ug/m³	1	"	"	"	"	
Naphthalene (91-20-3)	<2.6	2.6	0.11	ug/m³	1	"	"	ıı	II .	
n-Heptane (142-82-5)	<2.0	2.0	0.078	ug/m³	1	"	n .	"	"	
n-Hexane (110-54-3)	<1.8	1.8	0.074	ug/m³	1	"	"	"	"	
o-Xylene (95-47-6)	1.3	0.87	0.096	ug/m³	1	"	"	ıı	II .	
Propylene (115-07-1)	<0.86	0.86	0.027	ug/m³	1	"	"	"	"	
Styrene (100-42-5)	<2.1	2.1	0.096	ug/m³	1	"	"	"	"	
Tetrachloroethene (127-18-4)	<3.4	3.4	0.13	ug/m³	1	"	"	ıı	II .	
Tetrahydrofuran (109-99-9)	<1.5	1.5	0.038	ug/m³	1	"	n .	"	"	
Toluene (108-88-3)	6.1	0.75	0.060	ug/m³	1	"	"	"	"	
trans-1,2-Dichloroethene (156-60-5)	<2.0	2.0	0.11	ug/m³	1	"	"	"	"	
trans-1,3-Dichloropropene (10061-02-6)	<2.3	2.3	0.070	ug/m³	1	"	"	"	"	
Trichloroethene (79-01-6)	<1.1	1.1	0.12	ug/m³	1	"	"	ıı	II .	
Trichlorofluoromethane (75-69-4)	<2.8	2.8	0.048	ug/m³	1	"	"	"	"	
Trichlorotrifluoroethane (76-13-1)	<3.8	3.8	0.17	ug/m³	1	"	"	"	"	
Vinyl acetate (108-05-4)	<1.8	1.8	0.90	ug/m³	1	"	"	ıı	II .	
Vinyl chloride (75-01-4)	<0.51	0.51	0.051	ug/m³	1	"	"	"	"	
LSG-9 (1602754-03) Air Received:06	/24/16 12:50	Samp	led:06/23/1	6 12:13						
1,1,1-Trichloroethane (71-55-6)	<2.7	2.7	0.044	ug/m³	1	B6G0719	07/02/16	07/03/16	TO-15	
1,1,2,2-Tetrachloroethane (79-34-5)	<3.4	3.4	0.074	ug/m³	1	"	"	"	"	
1,1,2-Trichloroethane (79-00-5)	<2.7	2.7	0.11	ug/m³	1	"	"	"	"	
1,1-Dichloroethane (75-34-3)	<2.0	2.0	0.11	ug/m³	1	"	"	"	"	
1,1-Dichloroethene (75-35-4)	<2.0	2.0	0.078	ug/m³	1	"	"	"	"	
1,2,4-Trichlorobenzene (120-82-1)	<3.7	3.7	0.13	ug/m³	1	"	"	"	"	
1,2,4-Trimethylbenzene (95-63-6)	1.1	1.0	0.073	ug/m³	1	"	"	"	"	
1,2-Dibromoethane (106-93-4)	<3.8	3.8	0.16	ug/m³	1	"	"	"	"	
1,2-Dichlorobenzene (95-50-1)	<3.0	3.0	0.071	ug/m³	1	"	"	"	"	
1,2-Dichloroethane (107-06-2)	<2.0	2.0	0.055	ug/m³	1	"	"	"	"	
1,2-Dichloropropane (78-87-5)	<2.3	2.3	0.081	ug/m³	1	"	"	"	"	
1,3,5-Trimethylbenzene (108-67-8)	<1.0	1.0	0.11	ug/m³	1	"	"	"	"	
1,3-Butadiene (106-99-0)	<1.1	1.1	0.10	ug/m³	1	"	"	II .	u u	
1,3-Dichlorobenzene (541-73-1)	<3.0	3.0	0.14	ug/m³	1	"	"	"	"	
1,4-Dichlorobenzene (106-46-7)	<3.0	3.0	0.17	ug/m³	1	"	"	"	"	
2-Butanone (78-93-3)	2.0	1.5	0.078	ug/m³	1	"	"	"	"	



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Landmark EnvironmentalProject:TO-152042 West 98th StreetProject Number:CrCBloomington, MN 55431Project Manager:Mr. Jason Skramstad

Work Order #: 1602754

Date Reported: 07/08/16

Analyte (CAS#)	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
LSG-9 (1602754-03) Air Received:00	Samp	Sampled:06/23/16 12:13								
4-Ethyltoluene (622-96-8)	<2.5	2.5	0.11	ug/m³	1	B6G0719	07/02/16	07/03/16	TO-15	
Acetone (67-64-1)	35	11	0.50	ug/m³	9	"	"	07/05/16	"	
Benzene (71-43-2)	<0.64	0.64	0.050	ug/m³	1	"	"	07/03/16	"	
Benzyl chloride (100-44-7)	<2.6	2.6	0.073	ug/m³	1	"	"	"	"	
Bromodichloromethane (75-27-4)	<3.4	3.4	0.13	ug/m³	1	"	"	"	"	
Bromoform (75-25-2)	<5.2	5.2	0.13	ug/m³	1	"	"	"	"	
Bromomethane (74-83-9)	<1.9	1.9	0.069	ug/m³	1	"	"	"	"	
Carbon disulfide (75-15-0)	<1.6	1.6	0.070	ug/m³	1	"	"	"	"	
Carbon tetrachloride (56-23-5)	<3.1	3.1	0.087	ug/m³	1	"	"	"	"	
Chlorobenzene (108-90-7)	<2.3	2.3	0.080	ug/m³	1	"	"	"	"	
Chloroethane (75-00-3)	<1.3	1.3	0.037	ug/m³	1	"	"	"	m .	
Chloroform (67-66-3)	<2.4	2.4	0.055	ug/m³	1	"	"	"	m .	
Chloromethane (74-87-3)	1.2	1.0	0.044	ug/m³	1	"	"	"	m .	
cis-1,2-Dichloroethene (156-59-2)	<2.0	2.0	0.089	ug/m³	1	"	"	"	"	
cis-1,3-Dichloropropene (10061-01-5)	<2.3	2.3	0.12	ug/m³	1	"	"	"	m .	
Cyclohexane (110-82-7)	<1.7	1.7	0.059	ug/m³	1	"	"	"	m .	
Dibromochloromethane (124-48-1)	<4.3	4.3	0.16	ug/m³	1	"	"	"	m .	
Dichlorodifluoromethane (75-71-8)	4.1	2.5	0.12	ug/m³	1	"	"	"	m .	
Dichlorotetrafluoroethane (76-14-2)	<3.5	3.5	0.063	ug/m³	1	"	"	"	"	
Ethanol (64-17-5)	1600	85	6.1	ug/m³	90	"	"	07/05/16	"	
Ethyl acetate (141-78-6)	<1.8	1.8	0.11	ug/m³	1	"	"	07/03/16	m .	
Ethylbenzene (100-41-4)	1.2	0.87	0.082	ug/m³	1	"	"	"	m .	
Hexachlorobutadiene (87-68-3)	<5.3	5.3	0.27	ug/m³	1	"	"	"	m .	
Isopropyl alcohol (67-63-0)	890	110	6.8	ug/m³	90	"	"	07/05/16	m .	
m,p-Xylene (136777-61-2)	5.9	1.7	0.15	ug/m³	1	"	"	07/03/16	m .	
Methyl butyl ketone (591-78-6)	<2.0	2.0	0.12	ug/m³	1	"	"	ıı	m .	
Methyl isobutyl ketone (108-10-1)	<2.0	2.0	0.11	ug/m³	1	"	"	"	m .	
Methyl tert-butyl ether (1634-04-4)	<1.8	1.8	0.11	ug/m³	1	"	"	"	m .	
Methylene chloride (75-09-2)	<1.7	1.7	0.21	ug/m³	1	"	"	"	m .	
Naphthalene (91-20-3)	<2.6	2.6	0.11	ug/m³	1	"	"	"	m .	
n-Heptane (142-82-5)	<2.0	2.0	0.078	ug/m³	1	"	"	"	"	
n-Hexane (110-54-3)	<1.8	1.8	0.074	ug/m³	1	"	"	"	"	
o-Xylene (95-47-6)	3.1	0.87	0.096	ug/m³	1	"	"	"	"	
Propylene (115-07-1)	<0.86	0.86	0.027	ug/m³	1	"	"	"	"	
Styrene (100-42-5)	<2.1	2.1	0.096	ug/m³	1	"	"	"	п	
				-						



Fax: 651-642-1239

Landmark EnvironmentalProject:TO-152042 West 98th StreetProject Number:CrCBloomington, MN 55431Project Manager:Mr. Jason

Work Order #: 1602754
Skramstad Date Reported: 07/08/16

Project Manager: Mr. Jason Skramstad

Analyte (CAS#)	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
LSG-9 (1602754-03) Air Received:06	/24/16 12:50	Samp	led:06/23/1	6 12:13						
Tetrachloroethene (127-18-4)	32	3.4	0.13	ug/m³	1	B6G0719	07/02/16	07/03/16	TO-15	
Tetrahydrofuran (109-99-9)	<1.5	1.5	0.038	ug/m³	1	"	"	"	"	
Toluene (108-88-3)	2.6	0.75	0.060	ug/m³	1	"	"	"	"	
trans-1,2-Dichloroethene (156-60-5)	<2.0	2.0	0.11	ug/m³	1	"	"	"	"	
trans-1,3-Dichloropropene (10061-02-6)	<2.3	2.3	0.070	ug/m³	1	"	"	"	"	
Trichloroethene (79-01-6)	<1.1	1.1	0.12	ug/m³	1	"	"	"	"	
Trichlorofluoromethane (75-69-4)	<2.8	2.8	0.048	ug/m³	1	"	"	"	"	
Trichlorotrifluoroethane (76-13-1)	<3.8	3.8	0.17	ug/m³	1	"	"	"	"	
Vinyl acetate (108-05-4)	<1.8	1.8	0.90	ug/m³	1	"	"	"	"	
Vinyl chloride (75-01-4)	<0.51	0.51	0.051	ug/m³	1	"	"	"	"	
LSG-10 (1602754-04) Air Received:0	6/24/16 12:5	0 Samı	pled:06/23/	16 12:38						,
1,1,1-Trichloroethane (71-55-6)	<2.7	2.7	0.044	ug/m³	1	B6G0719	07/02/16	07/03/16	TO-15	
1,1,2,2-Tetrachloroethane (79-34-5)	<3.4	3.4	0.074	ug/m³	1	"	n .	ıı	II .	
1,1,2-Trichloroethane (79-00-5)	<2.7	2.7	0.11	ug/m³	1	"	"	"	"	
1,1-Dichloroethane (75-34-3)	<2.0	2.0	0.11	ug/m³	1	"	"	"	"	
1,1-Dichloroethene (75-35-4)	<2.0	2.0	0.078	ug/m³	1	"	"	"	"	
1,2,4-Trichlorobenzene (120-82-1)	<3.7	3.7	0.13	ug/m³	1	"	"	"	"	
1,2,4-Trimethylbenzene (95-63-6)	2.2	1.0	0.073	ug/m³	1	"	n .	"	"	
1,2-Dibromoethane (106-93-4)	<3.8	3.8	0.16	ug/m³	1	"	"	"	"	
1,2-Dichlorobenzene (95-50-1)	<3.0	3.0	0.071	ug/m³	1	"	"	"	"	
1,2-Dichloroethane (107-06-2)	<2.0	2.0	0.055	ug/m³	1	"	"	"	"	
1,2-Dichloropropane (78-87-5)	<2.3	2.3	0.081	ug/m³	1	"	"	"	"	
1,3,5-Trimethylbenzene (108-67-8)	<1.0	1.0	0.11	ug/m³	1	"	n .	"	"	
1,3-Butadiene (106-99-0)	<1.1	1.1	0.10	ug/m³	1	"	n .	"	"	
1,3-Dichlorobenzene (541-73-1)	<3.0	3.0	0.14	ug/m³	1	"	"	"	"	
1,4-Dichlorobenzene (106-46-7)	<3.0	3.0	0.17	ug/m³	1	"	"	"	"	
2-Butanone (78-93-3)	3.6	1.5	0.078	ug/m³	1	"	"	"	"	
4-Ethyltoluene (622-96-8)	<2.5	2.5	0.11	ug/m³	1	"	n .	"	"	
Acetone (67-64-1)	74	11	0.50	ug/m³	9	"	n .	07/05/16	II .	
Benzene (71-43-2)	<0.64	0.64	0.050	ug/m³	1	"	n .	07/03/16	"	
Benzyl chloride (100-44-7)	<2.6	2.6	0.073	ug/m³	1	"	"	II .	"	
Bromodichloromethane (75-27-4)	<3.4	3.4	0.13	ug/m³	1	"	"	"	"	
Bromoform (75-25-2)	<5.2	5.2	0.13	ug/m³	1	"	n .	II .	"	
Bromomethane (74-83-9)	<1.9	1.9	0.069	ug/m³	1	"	n .	II .	"	
Carbon disulfide (75-15-0)	<1.6	1.6	0.070	ug/m³	1	"	"	"	"	



Fax: 651-642-1239

Landmark EnvironmentalProject:TO-152042 West 98th StreetProject Number:CrCBloomington, MN 55431Project Manager:Mr. Jason Skramstad

Work Order #: 1602754
Date Reported: 07/08/16

Analyte (CAS#)	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
LSG-10 (1602754-04) Air Received:0	16/24/16 12:5	0 Samı	oled:06/23/1	16 12:38	_ 	_ 	_ 			
Carbon tetrachloride (56-23-5)	<3.1	3.1	0.087	ug/m³	1	B6G0719	07/02/16	07/03/16	TO-15	
Chlorobenzene (108-90-7)	<2.3	2.3	0.080	ug/m³	1	"	"	"	u u	
Chloroethane (75-00-3)	<1.3	1.3	0.037	ug/m³	1	"	"	"	"	
Chloroform (67-66-3)	<2.4	2.4	0.055	ug/m³	1	"	"	"	"	
Chloromethane (74-87-3)	1.1	1.0	0.044	ug/m³	1	"	"	"	"	
cis-1,2-Dichloroethene (156-59-2)	<2.0	2.0	0.089	ug/m³	1	"	"	"	"	
cis-1,3-Dichloropropene (10061-01-5)	<2.3	2.3	0.12	ug/m³	1	"	"	"	"	
Cyclohexane (110-82-7)	1.8	1.7	0.059	ug/m³	1	"	"	"	"	
Dibromochloromethane (124-48-1)	<4.3	4.3	0.16	ug/m³	1	"	"	"	"	
Dichlorodifluoromethane (75-71-8)	<2.5	2.5	0.12	ug/m³	1	"	"	"	"	
Dichlorotetrafluoroethane (76-14-2)	<3.5	3.5	0.063	ug/m³	1	"	"	п	II .	
Ethanol (64-17-5)	1100	85	6.1	ug/m³	90	"	"	07/05/16	II .	
Ethyl acetate (141-78-6)	<1.8	1.8	0.11	ug/m³	1	"	"	07/03/16	II .	
Ethylbenzene (100-41-4)	1.7	0.87	0.082	ug/m³	1	"	n .	"	n .	
Hexachlorobutadiene (87-68-3)	<5.3	5.3	0.27	ug/m³	1	"	"	"	u u	
Isopropyl alcohol (67-63-0)	530	110	6.8	ug/m³	90	"	"	07/05/16	u u	
m,p-Xylene (136777-61-2)	9.2	1.7	0.15	ug/m³	1	"	"	07/03/16	n .	
Methyl butyl ketone (591-78-6)	<2.0	2.0	0.12	ug/m³	1	"	"	"	n .	
Methyl isobutyl ketone (108-10-1)	<2.0	2.0	0.11	ug/m³	1	"	n .	п	II .	
Methyl tert-butyl ether (1634-04-4)	<1.8	1.8	0.11	ug/m³	1	"	n .	"	n .	
Methylene chloride (75-09-2)	2.2	1.7	0.21	ug/m³	1	"	"	"	"	
Naphthalene (91-20-3)	<2.6	2.6	0.11	ug/m³	1	"	"	"	u u	
n-Heptane (142-82-5)	<2.0	2.0	0.078	ug/m³	1	"	"	"	n .	
n-Hexane (110-54-3)	3.7	1.8	0.074	ug/m³	1	"	"	"	n .	
o-Xylene (95-47-6)	5.1	0.87	0.096	ug/m³	1	"	"	"	"	
Propylene (115-07-1)	<0.86	0.86	0.027	ug/m³	1	"	"	"	"	
Styrene (100-42-5)	<2.1	2.1	0.096	ug/m³	1	"	"	"	"	
Tetrachloroethene (127-18-4)	<3.4	3.4	0.13	ug/m³	1	"	"	"	"	
Tetrahydrofuran (109-99-9)	<1.5	1.5	0.038	ug/m³	1	"	"	"	"	
Toluene (108-88-3)	32	0.75	0.060	ug/m³	1	"	"	"	"	
trans-1,2-Dichloroethene (156-60-5)	<2.0	2.0	0.11	ug/m³	1	"	"	"	"	
trans-1,3-Dichloropropene (10061-02-6)	<2.3	2.3	0.070	ug/m³	1	"	"	"	"	
Trichloroethene (79-01-6)	<1.1	1.1	0.12	ug/m³	1	"	"	"	"	
Trichlorofluoromethane (75-69-4)	<2.8	2.8	0.048	ug/m³	1	"	"	п	п	
Frichlorotrifluoroethane (76-13-1)	<3.8	3.8	0.17	ug/m³	1	"	n .	"	u u	



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Landmark EnvironmentalProject:TO-152042 West 98th StreetProject Number:CrCWork Order #: 1602754Bloomington, MN 55431Project Manager:Mr. Jason SkramstadDate Reported: 07/08/16

Analyte (CAS#)	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
LSG-10 (1602754-04) Air Received:0	6/24/16 12:5	0 Sam	npled:06/23/	16 12:38						
Vinyl acetate (108-05-4)	<1.8	1.8	0.90	ug/m³	1	B6G0719	07/02/16	07/03/16	TO-15	
Vinyl chloride (75-01-4)	<0.51	0.51	0.051	ug/m³	1	"	"	"	n	
SP-1 (SSL) (1602754-05) Air Receive	d:06/24/16 [^]	2:50	Sampled:06/	23/16 13:2	1					
1,1,1-Trichloroethane (71-55-6)	<2.7	2.7	0.044	ug/m³	1	B6G0719	07/02/16	07/03/16	TO-15	
1,1,2,2-Tetrachloroethane (79-34-5)	<3.4	3.4	0.074	ug/m³	1	"	"	"	"	
1,1,2-Trichloroethane (79-00-5)	<2.7	2.7	0.11	ug/m³	1	"	"	"	"	
1,1-Dichloroethane (75-34-3)	<2.0	2.0	0.11	ug/m³	1	"	"	п	"	
1,1-Dichloroethene (75-35-4)	<2.0	2.0	0.078	ug/m³	1	"	"	"	"	
1,2,4-Trichlorobenzene (120-82-1)	<3.7	3.7	0.13	ug/m³	1	"	"	II .	u u	
1,2,4-Trimethylbenzene (95-63-6)	1.1	1.0	0.073	ug/m³	1	"	"	H .	n .	
1,2-Dibromoethane (106-93-4)	<3.8	3.8	0.16	ug/m³	1	"	"	H .	n .	
1,2-Dichlorobenzene (95-50-1)	<3.0	3.0	0.071	ug/m³	1	"	n .	п	п	
1,2-Dichloroethane (107-06-2)	<2.0	2.0	0.055	ug/m³	1	"	"	H .	n .	
1,2-Dichloropropane (78-87-5)	<2.3	2.3	0.081	ug/m³	1	"	"	п	"	
1,3,5-Trimethylbenzene (108-67-8)	<1.0	1.0	0.11	ug/m³	1	"	n .	п	п	
1,3-Butadiene (106-99-0)	<1.1	1.1	0.10	ug/m³	1	"	n .	"	II .	
1,3-Dichlorobenzene (541-73-1)	<3.0	3.0	0.14	ug/m³	1	"	"	"	"	
1,4-Dichlorobenzene (106-46-7)	<3.0	3.0	0.17	ug/m³	1	"	"	"	"	
2-Butanone (78-93-3)	1.8	1.5	0.078	ug/m³	1	"	"	"	"	
4-Ethyltoluene (622-96-8)	<2.5	2.5	0.11	ug/m³	1	"	"	"	"	
Acetone (67-64-1)	34	1.2	0.055	ug/m³	1	"	"	"	"	
Benzene (71-43-2)	0.73	0.64	0.050	ug/m³	1	"	"	"	"	
Benzyl chloride (100-44-7)	<2.6	2.6	0.073	ug/m³	1	"	"	"	"	
Bromodichloromethane (75-27-4)	<3.4	3.4	0.13	ug/m³	1	"	"	"	"	
Bromoform (75-25-2)	<5.2	5.2	0.13	ug/m³	1	"	"	"	"	
Bromomethane (74-83-9)	<1.9	1.9	0.069	ug/m³	1	"	"	"	"	
Carbon disulfide (75-15-0)	<1.6	1.6	0.070	ug/m³	1	"	"	"	"	
Carbon tetrachloride (56-23-5)	<3.1	3.1	0.087	ug/m³	1	"	n .	п	п	
Chlorobenzene (108-90-7)	<2.3	2.3	0.080	ug/m³	1	"	"	"	"	
Chloroethane (75-00-3)	<1.3	1.3	0.037	ug/m³	1	"	"	"	"	
Chloroform (67-66-3)	<2.4	2.4	0.055	ug/m³	1	"	n .	п	п	
Chloromethane (74-87-3)	1.2	1.0	0.044	ug/m³	1	"	"	"	"	
cis-1,2-Dichloroethene (156-59-2)	<2.0	2.0	0.089	ug/m³	1	"	n .	п	п	
cis-1,3-Dichloropropene (10061-01-5)	<2.3	2.3	0.12	ug/m³	1	"	n .	п	п	
Cyclohexane (110-82-7)	<1.7	1.7	0.059	ug/m³	1	"	"	"	"	



Fax: 651-642-1239

Landmark Environmental Project: TO-15
2042 West 98th Street Project Number: CrC

Bloomington, MN 55431 Project Manager: Mr. Jason Skramstad

Work Order #: 1602754
Date Reported: 07/08/16

Analyte (CAS#)	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SP-1 (SSL) (1602754-05) Air Receive	d:06/24/16	12:50	Sampled:06/	/23/16 13:2	1					
Dibromochloromethane (124-48-1)	<4.3	4.3	0.16	ug/m³	1	B6G0719	07/02/16	07/03/16	TO-15	
Dichlorodifluoromethane (75-71-8)	<2.5	2.5	0.12	ug/m³	1	"	"	"	"	
Dichlorotetrafluoroethane (76-14-2)	<3.5	3.5	0.063	ug/m³	1	"	"	"	"	
Ethanol (64-17-5)	1500	85	6.1	ug/m³	90	"	"	07/04/16	"	
Ethyl acetate (141-78-6)	<1.8	1.8	0.11	ug/m³	1	"	"	07/03/16	"	
Ethylbenzene (100-41-4)	<0.87	0.87	0.082	ug/m³	1	"	"	"	"	
Hexachlorobutadiene (87-68-3)	<5.3	5.3	0.27	ug/m³	1	"	"	"	"	
Isopropyl alcohol (67-63-0)	670	110	6.8	ug/m³	90	"	"	07/04/16	"	
m,p-Xylene (136777-61-2)	2.2	1.7	0.15	ug/m³	1	"	"	07/03/16	"	
Methyl butyl ketone (591-78-6)	<2.0	2.0	0.12	ug/m³	1	"	"	"	"	
Methyl isobutyl ketone (108-10-1)	<2.0	2.0	0.11	ug/m³	1	"	"	"	m .	
Methyl tert-butyl ether (1634-04-4)	<1.8	1.8	0.11	ug/m³	1	"	"	"	m .	
Methylene chloride (75-09-2)	5.1	1.7	0.21	ug/m³	1	"	"	"	m .	
Naphthalene (91-20-3)	<2.6	2.6	0.11	ug/m³	1	"	"	m .	п	
n-Heptane (142-82-5)	<2.0	2.0	0.078	ug/m³	1	"	"	"	m .	
n-Hexane (110-54-3)	<1.8	1.8	0.074	ug/m³	1	"	"	"	m .	
o-Xylene (95-47-6)	<0.87	0.87	0.096	ug/m³	1	"	"	m .	п	
Propylene (115-07-1)	<0.86	0.86	0.027	ug/m³	1	"	"	"	m .	
Styrene (100-42-5)	<2.1	2.1	0.096	ug/m³	1	"	"	"	"	
Tetrachloroethene (127-18-4)	<3.4	3.4	0.13	ug/m³	1	"	"	"	m .	
Tetrahydrofuran (109-99-9)	<1.5	1.5	0.038	ug/m³	1	"	"	m .	п	
Toluene (108-88-3)	2.9	0.75	0.060	ug/m³	1	"	"	"	m .	
trans-1,2-Dichloroethene (156-60-5)	<2.0	2.0	0.11	ug/m³	1	"	"	"	m .	
trans-1,3-Dichloropropene (10061-02-6)	<2.3	2.3	0.070	ug/m³	1	"	"	m .	п	
Trichloroethene (79-01-6)	<1.1	1.1	0.12	ug/m³	1	"	"	"	m .	
Trichlorofluoromethane (75-69-4)	<2.8	2.8	0.048	ug/m³	1	"	"	"	m .	
Trichlorotrifluoroethane (76-13-1)	<3.8	3.8	0.17	ug/m³	1	"	"	"	II .	
Vinyl acetate (108-05-4)	<1.8	1.8	0.90	ug/m³	1	"	"	"	m .	
Vinyl chloride (75-01-4)	<0.51	0.51	0.051	ug/m³	1	"	"	m .	п	
SP-2 (ES) (1602754-06) Air Received	:06/24/16 1	2:50 S	Sampled:06/2	3/16 11:27						
1,1,1-Trichloroethane (71-55-6)	<2.7	2.7	0.044	ug/m³	1	B6G0719	07/02/16	07/02/16	TO-15	
1,1,2,2-Tetrachloroethane (79-34-5)	<3.4	3.4	0.074	ug/m³	1	"	"	"	"	
1,1,2-Trichloroethane (79-00-5)	<2.7	2.7	0.11	ug/m³	1	"	"	II .	п	
1,1-Dichloroethane (75-34-3)	<2.0	2.0	0.11	ug/m³	1	"	"	II .	п	
1,1-Dichloroethene (75-35-4)	<2.0	2.0	0.078	ug/m³	1	"	"	"	"	



Fax: 651-642-1239

Landmark Environmental Project: TO-15 2042 West 98th Street Project Number: CrC

Bloomington, MN 55431 Project Manager: Mr. Jason Skramstad Work Order #: 1602754 Date Reported: 07/08/16

Analyte (CAS#)	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SP-2 (ES) (1602754-06) Air Received	:06/24/16 12	2:50 Sa	mpled:06/2	3/16 11:27						
1,2,4-Trichlorobenzene (120-82-1)	<3.7	3.7	0.13	ug/m³	1	B6G0719	07/02/16	07/02/16	TO-15	
1,2,4-Trimethylbenzene (95-63-6)	<1.0	1.0	0.073	ug/m³	1	"	"	"	"	
1,2-Dibromoethane (106-93-4)	<3.8	3.8	0.16	ug/m³	1	"	"	"	"	
1,2-Dichlorobenzene (95-50-1)	<3.0	3.0	0.071	ug/m³	1	"	"	"	"	
1,2-Dichloroethane (107-06-2)	<2.0	2.0	0.055	ug/m³	1	"	"	"	"	
1,2-Dichloropropane (78-87-5)	<2.3	2.3	0.081	ug/m³	1	"	"	"	"	
1,3,5-Trimethylbenzene (108-67-8)	<1.0	1.0	0.11	ug/m³	1	"	"	"	"	
1,3-Butadiene (106-99-0)	<1.1	1.1	0.10	ug/m³	1	"	"	"	"	
1,3-Dichlorobenzene (541-73-1)	<3.0	3.0	0.14	ug/m³	1	"	"	"	"	
1,4-Dichlorobenzene (106-46-7)	<3.0	3.0	0.17	ug/m³	1	"	"	"	"	
2-Butanone (78-93-3)	<1.5	1.5	0.078	ug/m³	1	"	"	"	"	
4-Ethyltoluene (622-96-8)	<2.5	2.5	0.11	ug/m³	1	"	"	"	"	
Acetone (67-64-1)	43	11	0.50	ug/m³	9	"	"	07/05/16	"	
Benzene (71-43-2)	<0.64	0.64	0.050	ug/m³	1	"	"	07/02/16	"	
Benzyl chloride (100-44-7)	<2.6	2.6	0.073	ug/m³	1	"	"	"	"	
Bromodichloromethane (75-27-4)	<3.4	3.4	0.13	ug/m³	1	"	"	"	"	
Bromoform (75-25-2)	<5.2	5.2	0.13	ug/m³	1	"	"	"	"	
Bromomethane (74-83-9)	<1.9	1.9	0.069	ug/m³	1	"	"	"	"	
Carbon disulfide (75-15-0)	<1.6	1.6	0.070	ug/m³	1	"	"	"	"	
Carbon tetrachloride (56-23-5)	<3.1	3.1	0.087	ug/m³	1	"	"	"	"	
Chlorobenzene (108-90-7)	<2.3	2.3	0.080	ug/m³	1	"	"	"	"	
Chloroethane (75-00-3)	<1.3	1.3	0.037	ug/m³	1	"	"	"	"	
Chloroform (67-66-3)	<2.4	2.4	0.055	ug/m³	1	"	"	"	"	
Chloromethane (74-87-3)	1.1	1.0	0.044	ug/m³	1	"	"	"	"	
cis-1,2-Dichloroethene (156-59-2)	<2.0	2.0	0.089	ug/m³	1	"	"	"	"	
cis-1,3-Dichloropropene (10061-01-5)	<2.3	2.3	0.12	ug/m³	1	"	"	"	"	
Cyclohexane (110-82-7)	<1.7	1.7	0.059	ug/m³	1	"	"	"	"	
Dibromochloromethane (124-48-1)	<4.3	4.3	0.16	ug/m³	1	"	"	"	"	
Dichlorodifluoromethane (75-71-8)	<2.5	2.5	0.12	ug/m³	1	"	"		"	
Dichlorotetrafluoroethane (76-14-2)	<3.5	3.5	0.063	ug/m³	1	"	"	"	"	
Ethanol (64-17-5)	730	85	6.1	ug/m³	90	"	"	07/05/16	"	
Ethyl acetate (141-78-6)	<1.8	1.8	0.11	ug/m³	1	"	"	07/02/16	"	
Ethylbenzene (100-41-4)	<0.87	0.87	0.082	ug/m³	1	"	"	"	II .	
Hexachlorobutadiene (87-68-3)	<5.3	5.3	0.27	ug/m³	1	"	"	"	II .	
Isopropyl alcohol (67-63-0)	690	110	6.8	ug/m³	90	"	"	07/05/16	u	



Bloomington, MN 55431

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

Fax: 651-642-1239

Landmark Environmental Project: TO-15
2042 West 98th Street Project Number: CrC

Project Manager: Mr. Jason Skramstad

Work Order #: 1602754
Date Reported: 07/08/16

Methyl butyl ketone (581-78-6)	Analyte (CAS#)	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Methyl butyl ketone (381-78-6)	SP-2 (ES) (1602754-06) Air Received	d:06/24/16 12	2:50 Sa	mpled:06/2	3/16 11:27						
Methyl isobuly ketone (108-10-1)	m,p-Xylene (136777-61-2)	<1.7	1.7	0.15	ug/m³	1	B6G0719	07/02/16	07/02/16	TO-15	
Methyl terb buyl ether (1634-04-4)	Methyl butyl ketone (591-78-6)	<2.0	2.0	0.12	ug/m³	1	"	"	"	"	
Methylene chloride (75-09-2)	Methyl isobutyl ketone (108-10-1)	<2.0	2.0	0.11	ug/m³	1	"	"	"	"	
Naphthalene (91-20-3)	Methyl tert-butyl ether (1634-04-4)	<1.8	1.8	0.11	ug/m³	1	"	"	"	"	
	Methylene chloride (75-09-2)	2.9	1.7	0.21	ug/m³	1	n n	"	"	"	
n-Hexane (110-54-3)	Naphthalene (91-20-3)	<2.6	2.6	0.11	ug/m³	1	"	"	"	"	
	n-Heptane (142-82-5)	<2.0	2.0	0.078	ug/m³	1	"	"	"	"	
Propylene (115-07-1)	n-Hexane (110-54-3)	<1.8	1.8	0.074	ug/m³	1	"	"	"	"	
Stylene (100-42-5) -2.1 2.1 0.096 ug/m³ 1 " " " " " Tetrachloroethene (127-18-4) 360 31 1.2 ug/m³ 9 " 0.705/16 " Tetrachloroethene (127-18-4) 360 31 1.2 ug/m³ 9 " 0.705/16 " Tetrachloroethene (127-18-4) 360 31 1.2 ug/m³ 1 " " 0.702/16 " Toluene (108-8-3) 2.9 0.75 0.060 ug/m³ 1 " " " 0.702/16 " Toluene (108-8-3) 2.9 0.75 0.060 ug/m³ 1 " " " " " " " " "	o-Xylene (95-47-6)	<0.87	0.87	0.096	ug/m³	1	"	"	"	"	
Tetrachloroethene (127-18-4) 360 31 1.2 ug/m³ 9 " 0706/16 " 0706/16 " 1 Tetrachydrofuran (109-99-9) 1.5 1.5 0.038 ug/m³ 1 " 0706/16 " 07002/16 " 1 Tetrachydrofuran (109-99-9) 1.5 1.5 0.080 ug/m³ 1 " 07002/16 " 07002/16 " 1 Tetrachydrofuran (109-99-9) 1.2 0.05 0.060 ug/m³ 1 " 0 " 0 " 07002/16 " 0 Tetrachydrofuran (106-60-5) 2.0 0.01 ug/m³ 1 " 0 " 0 " 0 " 0 Tetrachydrofuran (106-60-5) 2.3 0.3 0.070 ug/m³ 1 0 " 0 " 0 " 0 " 0 Tetrachydrofunan (79-01-6) 2.3 0.3 0.070 ug/m³ 1 0 " 0 " 0 " 0 " 0 " 0 Tetrachydrofunan (79-01-6) 2.3 0.3 0.070 ug/m³ 1 0 " 0 " 0 " 0 " 0 " 0 Tetrachydrofunan (79-01-6) 2.3 0.8 0.048 ug/m³ 1 0 " 0 " 0 " 0 " 0 " 0 " 0 Tetrachydrofunan (79-01-6) 2.3 0.8 0.048 ug/m³ 1 0 " 0 " 0 " 0 " 0 " 0 " 0 Tetrachydrofunan (79-01-4) 2.8 0.51 0.51 0.051 ug/m³ 1 0 " 0 " 0 " 0 " 0 " 0 " 0 Tetrachydrofunan (79-01-4) 2.5 0.51 0.051 0.051 ug/m³ 1 0 " 0 " 0 " 0 " 0 " 0 " 0 Tetrachydrofunan (79-01-4) 2.5 0.51 0.051 ug/m³ 1 0 " 0 " 0 " 0 " 0 " 0 " 0 Tetrachydrofunan (79-01-4) 2.5 0.51 0.051 ug/m³ 1 0 " 0 " 0 " 0 " 0 " 0 " 0 " 0 Tetrachydrofunan (79-01-4) 2.5 0 Tetrachydrofunan (79-01-4) 2.7 0.7 0.044 ug/m³ 1 0 " 0 " 0 " 0 " 0 " 0 " 0 " 0 Tetrachydrofunan (79-01-5) 2.7 0.044 ug/m³ 1 0 " 0 " 0 " 0 " 0 " 0 " 0 " 0 " 0 Tetrachydrofunan (79-01-5) 2.7 0.044 ug/m³ 1 0 " 0 " 0 " 0 " 0 " 0 " 0 " 0 " 0 Tetrachydrofunan (79-01-5) 2.7 0.041 ug/m³ 1 0 " 0 " 0 " 0 " 0 " 0 " 0 " 0 " 0 " 0	Propylene (115-07-1)	<0.86	0.86	0.027	ug/m³	1	"	"	"	"	
Tetrahydrofuran (109-99-9)	Styrene (100-42-5)	<2.1	2.1	0.096	ug/m³	1	n n	"	"	II .	
Columne (108-88-3) Columne (108-108-108-108-108-108-108-108-108-108-	Tetrachloroethene (127-18-4)	360	31	1.2	ug/m³	9	n n	"	07/05/16	II .	
trans-1,2-Dichloroethene (156-60-5)	Tetrahydrofuran (109-99-9)	<1.5	1.5	0.038	ug/m³	1	n n	"	07/02/16	II .	
Trichloroethene (79-01-6)	Toluene (108-88-3)	2.9	0.75	0.060	ug/m³	1	n n	"	"	II .	
Trichloroethene (79-01-6)	trans-1,2-Dichloroethene (156-60-5)	<2.0	2.0	0.11	ug/m³	1	"	"	"	"	
Trichlorofluoromethane (75-69-4)	trans-1,3-Dichloropropene (10061-02-6)	<2.3	2.3	0.070	ug/m³	1	"	"	"	"	
Trichlorotrifluoroethane (76-13-1) 62 3.8 0.17 ug/m³ 1 " " " " " " " " " " " " " " " " " "	Trichloroethene (79-01-6)	<1.1	1.1	0.12	ug/m³	1	"	"	"	"	
Vinyl acetate (108-05-4)	Trichlorofluoromethane (75-69-4)	<2.8	2.8	0.048	ug/m³	1	"	"	"	"	
Vinyl chloride (75-01-4)	Trichlorotrifluoroethane (76-13-1)	62	3.8	0.17	ug/m³	1	n n	"	"	II .	
DPE-Exhaust (1602754-07) Air Received:06/24/16 12:50 Sampled:06/23/16 15:01 1,1,1-Trichloroethane (71-55-6) <2.7 2.7 0.044 ug/m³ 1 B6G0719 07/02/16 07/03/16 TO-15 1,1,2-Tetrachloroethane (79-34-5) <3.4 3.4 0.074 ug/m³ 1 " " " " " " 1,1,2-Trichloroethane (79-00-5) <2.7 2.7 0.11 ug/m³ 1 " " " " " " " 1,1-Dichloroethane (75-34-3) <2.0 2.0 0.11 ug/m³ 1 " " " " " " " 1,2,4-Trichloroethane (75-35-4) <2.0 2.0 0.078 ug/m³ 1 " " " " " " " 1,2,4-Trichlorobenzene (120-82-1) <3.7 3.7 0.13 ug/m³ 1 " " " " " " " " 1,2,4-Trimethylbenzene (95-63-6) <1.0 1.0 0.073 ug/m³ 1 " " " " " " " " 1,2-Dichlorobenzene (95-50-1) <3.0 3.0 0.071 ug/m³ 1 " " " " " " " " 1,2-Dichloroethane (107-06-2) <2.0 2.0 0.055 ug/m³ 1 " " " " " " " " "	Vinyl acetate (108-05-4)	<1.8	1.8	0.90	ug/m³	1	II .	"	m .	"	
1,1,1-Trichloroethane (71-55-6)	Vinyl chloride (75-01-4)	<0.51	0.51	0.051	ug/m³	1	II .	"	m .	"	
1,1,2,2-Tetrachloroethane (79-34-5)	DPE-Exhaust (1602754-07) Air Rece	eived:06/24/1	6 12:50	Sampled:	06/23/16 15	5:01					
1,1,2-Trichloroethane (79-00-5)	1,1,1-Trichloroethane (71-55-6)	<2.7	2.7	0.044	ug/m³	1	B6G0719	07/02/16	07/03/16	TO-15	
1,1-Dichloroethane (75-34-3)	1,1,2,2-Tetrachloroethane (79-34-5)	<3.4	3.4	0.074	ug/m³	1	"	"	"	"	
1,1-Dichloroethene (75-35-4)	1,1,2-Trichloroethane (79-00-5)	<2.7	2.7	0.11	ug/m³	1	"	"	"	"	
1,2,4-Trichlorobenzene (120-82-1)	1,1-Dichloroethane (75-34-3)	<2.0	2.0	0.11	ug/m³	1	"	"	"	"	
1,2,4-Trimethylbenzene (95-63-6)	1,1-Dichloroethene (75-35-4)	<2.0	2.0	0.078	ug/m³	1	"	"	"	"	
1,2-Dibromoethane (106-93-4) 43.8 3.8 0.16 ug/m³ 1 """"""""""""""""""""""""""""""""""	1,2,4-Trichlorobenzene (120-82-1)	<3.7	3.7	0.13	ug/m³	1	"	"	"	"	
1,2-Dichlorobenzene (95-50-1)	1,2,4-Trimethylbenzene (95-63-6)	<1.0	1.0	0.073	ug/m³	1	"	"	"	"	
1,2-Dichloroethane (107-06-2)	1,2-Dibromoethane (106-93-4)	<3.8	3.8	0.16	ug/m³	1	"	"	"	"	
1,2-Dichloropropane (78-87-5)	1,2-Dichlorobenzene (95-50-1)	<3.0	3.0	0.071	ug/m³	1	n .	"	n	"	
1,3,5-Trimethylbenzene (108-67-8) <1.0 1.0 0.11 ug/m³ 1 " " " "	1,2-Dichloroethane (107-06-2)	<2.0	2.0	0.055	ug/m³	1	n n	"	II .	"	
	1,2-Dichloropropane (78-87-5)	<2.3	2.3	0.081	ug/m³	1	"	"	"	"	
1,3-Butadiene (106-99-0) <1.1 1.1 0.10 ug/m³ 1 " " " "	1,3,5-Trimethylbenzene (108-67-8)	<1.0	1.0	0.11	ug/m³	1	"	"	"	"	
	1,3-Butadiene (106-99-0)	<1.1	1.1	0.10	ug/m³	1	II .	ıı	"	"	



Fax: 651-642-1239

Landmark Environmental Project: TO-15

2042 West 98th Street Project Number: CrC

Bloomington, MN 55431 Project Manager: Mr. Jason Skramstad

Work Order #: 1602754
Date Reported: 07/08/16

Analyte (CAS#)	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
DPE-Exhaust (1602754-07) Air Rece	eived:06/24/1	6 12:50	Sampled:	06/23/16 1	5:01					
1,3-Dichlorobenzene (541-73-1)	<3.0	3.0	0.14	ug/m³	1	B6G0719	07/02/16	07/03/16	TO-15	
1,4-Dichlorobenzene (106-46-7)	<3.0	3.0	0.17	ug/m³	1	"	"	"	"	
2-Butanone (78-93-3)	2.1	1.5	0.078	ug/m³	1	"	"	"	"	
4-Ethyltoluene (622-96-8)	<2.5	2.5	0.11	ug/m³	1	"	"	"	"	
Acetone (67-64-1)	43	1.2	0.055	ug/m³	1	"	"	"	"	
Benzene (71-43-2)	<0.64	0.64	0.050	ug/m³	1	"	"	"	"	
Benzyl chloride (100-44-7)	<2.6	2.6	0.073	ug/m³	1	"	"	"	"	
Bromodichloromethane (75-27-4)	<3.4	3.4	0.13	ug/m³	1	"	"	"	"	
Bromoform (75-25-2)	<5.2	5.2	0.13	ug/m³	1	"	"	"	"	
Bromomethane (74-83-9)	<1.9	1.9	0.069	ug/m³	1	"	"	"	"	
Carbon disulfide (75-15-0)	<1.6	1.6	0.070	ug/m³	1	"	"	"	m .	
Carbon tetrachloride (56-23-5)	<3.1	3.1	0.087	ug/m³	1	"	"	"	m .	
Chlorobenzene (108-90-7)	<2.3	2.3	0.080	ug/m³	1	"	"	"	m .	
Chloroethane (75-00-3)	<1.3	1.3	0.037	ug/m³	1	"	"	m .	п	
Chloroform (67-66-3)	<2.4	2.4	0.055	ug/m³	1	"	"	"	"	
Chloromethane (74-87-3)	1.2	1.0	0.044	ug/m³	1	"	"	"	"	
cis-1,2-Dichloroethene (156-59-2)	<2.0	2.0	0.089	ug/m³	1	"	"	"	II .	
cis-1,3-Dichloropropene (10061-01-5)	<2.3	2.3	0.12	ug/m³	1	"	"	"	II .	
Cyclohexane (110-82-7)	<1.7	1.7	0.059	ug/m³	1	"	"	"	m .	
Dibromochloromethane (124-48-1)	<4.3	4.3	0.16	ug/m³	1	"	"	"	m .	
Dichlorodifluoromethane (75-71-8)	<2.5	2.5	0.12	ug/m³	1	"	"	"	"	
Dichlorotetrafluoroethane (76-14-2)	<3.5	3.5	0.063	ug/m³	1	"	"	"	m .	
Ethanol (64-17-5)	450	19	1.4	ug/m³	20	"	"	07/04/16	m .	
Ethyl acetate (141-78-6)	<1.8	1.8	0.11	ug/m³	1	"	"	07/03/16	m .	
Ethylbenzene (100-41-4)	<0.87	0.87	0.082	ug/m³	1	"	"	"	"	
Hexachlorobutadiene (87-68-3)	<5.3	5.3	0.27	ug/m³	1	"	"	"	m .	
Isopropyl alcohol (67-63-0)	460	24	1.5	ug/m³	20	"	"	07/04/16	II .	
m,p-Xylene (136777-61-2)	1.8	1.7	0.15	ug/m³	1	"	"	07/03/16	"	
Methyl butyl ketone (591-78-6)	<2.0	2.0	0.12	ug/m³	1	"	"	"	"	
Methyl isobutyl ketone (108-10-1)	<2.0	2.0	0.11	ug/m³	1	"	"	"	II .	
Methyl tert-butyl ether (1634-04-4)	<1.8	1.8	0.11	ug/m³	1	"	"	"	"	
Methylene chloride (75-09-2)	6.2	1.7	0.21	ug/m³	1	"	"	"	"	
Naphthalene (91-20-3)	<2.6	2.6	0.11	ug/m³	1	"	"	"	"	
n-Heptane (142-82-5)	<2.0	2.0	0.078	ug/m³	1	"	"	"	"	
n-Hexane (110-54-3)	<1.8	1.8	0.074	ug/m³	1	"	"	п	п	



Fax: 651-642-1239

Landmark EnvironmentalProject:TO-152042 West 98th StreetProject Number:CrCWork Order #: 1602754Bloomington, MN 55431Project Manager:Mr. Jason SkramstadDate Reported: 07/08/16

			90	o		,				-
Analyte (CAS#)	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
DPE-Exhaust (1602754-07) Air Recei	ived:06/24/1	6 12:50	Sampled:	:06/23/16 15	5:01					
o-Xylene (95-47-6)	<0.87	0.87	0.096	ug/m³	1	B6G0719	07/02/16	07/03/16	TO-15	
Propylene (115-07-1)	<0.86	0.86	0.027	ug/m³	1	"	"	"	"	
Styrene (100-42-5)	<2.1	2.1	0.096	ug/m³	1	"	"	"	"	
Tetrachloroethene (127-18-4)	230	68	2.6	ug/m³	20	"	"	07/04/16	"	
Tetrahydrofuran (109-99-9)	1.9	1.5	0.038	ug/m³	1	"	"	07/03/16	"	
Toluene (108-88-3)	2.8	0.75	0.060	ug/m³	1	"	"	"	"	
trans-1,2-Dichloroethene (156-60-5)	<2.0	2.0	0.11	ug/m³	1	"	"	"	"	
trans-1,3-Dichloropropene (10061-02-6)	<2.3	2.3	0.070	ug/m³	1	"	"	"	"	
Trichloroethene (79-01-6)	<1.1	1.1	0.12	ug/m³	1	"	"	"	"	
Trichlorofluoromethane (75-69-4)	<2.8	2.8	0.048	ug/m³	1	"	"	"	"	
Trichlorotrifluoroethane (76-13-1)	1500	76	3.4	ug/m³	20	"	ıı .	07/04/16	"	
Vinyl acetate (108-05-4)	<1.8	1.8	0.90	ug/m³	1	"	ıı .	07/03/16	"	
Vinyl chloride (75-01-4)	<0.51	0.51	0.051	ug/m³	1	"	ıı	"	"	



Fax: 651-642-1239

Landmark EnvironmentalProject:TO-152042 West 98th StreetProject Number:CrCWork Order #: 1602754Bloomington, MN 55431Project Manager:Mr. Jason SkramstadDate Reported: 07/08/16

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
Batch B6G0719 - TO-15											
Blank (B6G0719-BLK1)					Prepared	d & Analyze	ed: 07/02/1	16			
1,1,1-Trichloroethane	< 2.7	2.7	0.044	ug/m³		•					
1,1,2,2-Tetrachloroethane	< 3.4	3.4	0.074	ug/m³							
1,1,2-Trichloroethane	< 2.7	2.7	0.11	ug/m³							
1,1-Dichloroethane	< 2.0	2.0	0.11	ug/m³							
1,1-Dichloroethene	< 2.0	2.0	0.078	ug/m³							
1,2,4-Trichlorobenzene	< 3.7	3.7	0.13	ug/m³							
1,2,4-Trimethylbenzene	< 1.0	1.0	0.073	ug/m³							
1,2-Dibromoethane	< 3.8	3.8	0.16	ug/m³							
1,2-Dichlorobenzene	< 3.0	3.0	0.071	ug/m³							
1,2-Dichloroethane	< 2.0	2.0	0.055	ug/m³							
1,2-Dichloropropane	< 2.3	2.3	0.081	ug/m³							
1,3,5-Trimethylbenzene	< 1.0	1.0	0.11	ug/m³							
1,3-Butadiene	< 1.1	1.1	0.10	ug/m³							
1,3-Dichlorobenzene	< 3.0	3.0	0.14	ug/m³							
1,4-Dichlorobenzene	< 3.0	3.0	0.17	ug/m³							
2-Butanone	< 1.5	1.5	0.078	ug/m³							
4-Ethyltoluene	< 2.5	2.5	0.11	ug/m³							
Acetone	< 1.2	1.2	0.055	ug/m³							
Benzene	< 0.64	0.64	0.050	ug/m³							
Benzyl chloride	< 2.6	2.6	0.073	ug/m³							
Bromodichloromethane	< 3.4	3.4	0.13	ug/m³							
Bromoform	< 5.2	5.2	0.13	ug/m³							
Bromomethane	< 1.9	1.9	0.069	ug/m³							
Carbon disulfide	< 1.6	1.6	0.070	ug/m³							
Carbon tetrachloride	< 3.1	3.1	0.087	ug/m³							
Chlorobenzene	< 2.3	2.3	0.080	ug/m³							
Chloroethane	< 1.3	1.3	0.037	ug/m³							
Chloroform	< 2.4	2.4	0.055	ug/m³							
Chloromethane	< 1.0	1.0	0.044	ug/m³							
cis-1,2-Dichloroethene	< 2.0	2.0	0.089	ug/m³							
cis-1,3-Dichloropropene	< 2.3	2.3	0.12	ug/m³							
Cyclohexane	< 1.7	1.7	0.059	ug/m³							
Dibromochloromethane	< 4.3	4.3	0.16	ug/m³							
Dichlorodifluoromethane	< 2.5	2.5	0.12	ug/m³							
Dichlorotetrafluoroethane	< 3.5	3.5	0.063	ug/m³							
Ethanol	< 0.94	0.94	0.068	ug/m³							
Ethyl acetate	< 1.8	1.8	0.11	ug/m³							
Ethylbenzene	< 0.87	0.87	0.082	ug/m³							
Hexachlorobutadiene	< 5.3	5.3	0.27	ug/m³							
Isopropyl alcohol	< 1.2	1.2	0.075	ug/m³							



Fax: 651-642-1239

Landmark EnvironmentalProject:TO-152042 West 98th StreetProject Number:CrCWork Order #: 1602754Bloomington, MN 55431Project Manager:Mr. Jason SkramstadDate Reported: 07/08/16

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
Batch B6G0719 - TO-15	rtodat	112		Ormo	20101	rtocar	701120	Limito	70111 2		110100
							1 07/00/				
Blank (B6G0719-BLK1)					Prepared	l & Analyze	ed: 07/02/1	6			
m,p-Xylene	< 1.7	1.7	0.15	ug/m³							
Methyl butyl ketone	< 2.0	2.0	0.12	ug/m³							
Methyl isobutyl ketone	< 2.0	2.0	0.11	ug/m³							
Methyl tert-butyl ether	< 1.8	1.8	0.11	ug/m³							
Methylene chloride	< 1.7	1.7	0.21	ug/m³							
Naphthalene	< 2.6	2.6	0.11	ug/m³							
n-Heptane	< 2.0	2.0	0.078	ug/m³							
n-Hexane	< 1.8	1.8	0.074	ug/m³							
o-Xylene	< 0.87	0.87	0.096	ug/m³							
Propylene	< 0.86	0.86	0.027	ug/m³							
Styrene	< 2.1	2.1	0.096	ug/m³							
Tetrachloroethene	< 3.4	3.4	0.13	ug/m³							
Tetrahydrofuran	< 1.5	1.5	0.038	ug/m³							
Toluene	< 0.75	0.75	0.060	ug/m³							
trans-1,2-Dichloroethene	< 2.0	2.0	0.11	ug/m³							
trans-1,3-Dichloropropene	< 2.3	2.3	0.070	ug/m³							
Trichloroethene	< 1.1	1.1	0.12	ug/m³							
Trichlorofluoromethane	< 2.8	2.8	0.048	ug/m³							
Trichlorotrifluoroethane	< 3.8	3.8	0.17	ug/m³							
Vinyl acetate	< 1.8	1.8	0.90	ug/m³							
Vinyl chloride	< 0.51	0.51	0.051	ug/m³							
LCS (B6G0719-BS1)					Prepared	l & Analyze	ed: 07/02/1	6			
1,1,1-Trichloroethane	48.9	2.7	0.044	ug/m³	54.6		89.6	70-130			
1,1,2,2-Tetrachloroethane	57.0	3.4	0.074	ug/m³	68.6		83.0	70-130			
1,1,2-Trichloroethane	50.4	2.7	0.11	ug/m³	54.6		92.4	70-130			
1,1-Dichloroethane	35.8	2.0	0.11	ug/m³	40.5		88.5	70-130			
1,1-Dichloroethene	34.8	2.0	0.078	ug/m³	39.6		87.7	70-130			
1,2,4-Trichlorobenzene	76.4	3.7	0.13	ug/m³	74.2		103	70-130			
1,2,4-Trimethylbenzene	41.0	1.0	0.073	ug/m³	49.2		83.4	70-130			
1,2-Dibromoethane	71.3	3.8	0.16	ug/m³	76.8		92.8	70-130			
1,2-Dichlorobenzene	56.9	3.0	0.071	ug/m³	60.1		94.6	70-130			
1,2-Dichloroethane	35.8	2.0	0.055	ug/m³	40.5		88.4	70-130			
1,2-Dichloropropane	42.7	2.3	0.081	ug/m³	46.2		92.3	70-130			
1,3,5-Trimethylbenzene	39.8	1.0	0.11	ug/m³	49.2		80.9	70-130			
1,3-Butadiene	19.9	1.1	0.10	ug/m³	22.1		90.1	70-130			
1,3-Dichlorobenzene	51.6	3.0	0.14	ug/m³	60.1		85.9	70-130			
1,4-Dichlorobenzene	51.1	3.0	0.17	ug/m³	60.1		85.0	70-130			
2-Butanone	24.3	1.5	0.078	ug/m³	29.5		82.5	70-130			
4-Ethyltoluene	42.1	2.5	0.11	ug/m³	49.2		85.6	70-130			

Fax: 651-642-1239

Landmark EnvironmentalProject:TO-152042 West 98th StreetProject Number:CrC

Bloomington, MN 55431 Project Manager: Mr. Jason Skramstad

Work Order #: 1602754
Date Reported: 07/08/16

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
Batch B6G0719 - TO-15											
LCS (B6G0719-BS1)					Prepared	l & Analyze	ed: 07/02/	16			
Acetone	23.2	1.2	0.055	ug/m³	23.8	•	97.5	70-130			
Benzene	28.5	0.64	0.050	ug/m³	31.9		89.2	70-130			
Benzyl chloride	47.0	2.6	0.073	ug/m³	51.8		90.7	70-130			
Bromodichloromethane	61.7	3.4	0.13	ug/m³	67.0		92.1	70-130			
Bromoform	87.4	5.2	0.13	ug/m³	103		84.6	70-130			
Bromomethane	33.9	1.9	0.069	ug/m³	38.8		87.2	70-130			
Carbon disulfide	27.3	1.6	0.070	ug/m³	31.1		87.8	70-130			
Carbon tetrachloride	57.2	3.1	0.087	ug/m³	62.9		90.9	70-130			
Chlorobenzene	38.7	2.3	0.080	ug/m³	46.0		84.1	70-130			
Chloroethane	22.4	1.3	0.037	ug/m³	26.4		85.0	70-130			
Chloroform	45.1	2.4	0.055	ug/m³	48.8		92.4	70-130			
Chloromethane	18.9	1.0	0.044	ug/m³	20.6		91.5	70-130			
cis-1,2-Dichloroethene	35.6	2.0	0.089	ug/m³	39.6		89.8	70-130			
cis-1,3-Dichloropropene	40.8	2.3	0.12	ug/m³	45.4		89.8	70-130			
Cyclohexane	30.7	1.7	0.059	ug/m³	34.4		89.2	70-130			
Dibromochloromethane	78.2	4.3	0.16	ug/m³	85.2		91.8	70-130			
Dichlorodifluoromethane	51.4	2.5	0.12	ug/m³	49.5		104	70-130			
Dichlorotetrafluoroethane	65.8	3.5	0.063	ug/m³	69.9		94.1	70-130			
Ethanol	18.8	0.94	0.068	ug/m³	18.8		99.8	70-130			
Ethyl acetate	29.0	1.8	0.11	ug/m³	36.0		80.6	70-130			
Ethylbenzene	36.7	0.87	0.082	ug/m³	43.4		84.6	70-130			
Hexachlorobutadiene	99.3	5.3	0.27	ug/m³	107		93.1	70-130			
Isopropyl alcohol	22.6	1.2	0.075	ug/m³	24.6		91.8	70-130			
m,p-Xylene	72.1	1.7	0.15	ug/m³	86.8		83.0	70-130			
Methyl butyl ketone	39.9	2.0	0.12	ug/m³	41.0		97.4	70-130			
Methyl isobutyl ketone	37.2	2.0	0.11	ug/m³	41.0		90.8	70-130			
Methyl tert-butyl ether	31.5	1.8	0.11	ug/m³	36.1		87.4	70-130			
Methylene chloride	31.6	1.7	0.21	ug/m³	34.7		91.0	70-130			
Naphthalene	50.1	2.6	0.11	ug/m³	55.0		91.0	70-130			
n-Heptane	37.0	2.0	0.078	ug/m³	41.0		90.2	70-130			
n-Hexane	30.9	1.8	0.074	ug/m³	35.2		87.8	70-130			
o-Xylene	36.4	0.87	0.096	ug/m³	43.4		83.8	70-130			
Propylene	15.7	0.86	0.027	ug/m³	17.2		91.5	70-130			
Styrene	36.5	2.1	0.096	ug/m³	42.6		85.8	70-130			
Tetrachloroethene	62.8	3.4	0.13	ug/m³	67.8		92.6	70-130			
Tetrahydrofuran	28.0	1.5	0.038	ug/m³	29.5		95.0	70-130			
Toluene	33.9	0.75	0.060	ug/m³	37.7		90.0	70-130			
trans-1,2-Dichloroethene	34.5	2.0	0.11	ug/m³	39.6		87.1	70-130			
trans-1,3-Dichloropropene	41.8	2.3	0.070	ug/m³	45.4		92.1	70-130			
Trichloroethene	47.6	1.1	0.12	ug/m³	53.7		88.6	70-130			



Fax: 651-642-1239

Landmark EnvironmentalProject:TO-152042 West 98th StreetProject Number:CrC

Bloomington, MN 55431 Project Manager: Mr. Jason Skramstad

Work Order #: 1602754
Date Reported: 07/08/16

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
Batch B6G0719 - TO-15											
LCS (B6G0719-BS1)					Prepared	l & Analyze	ed: 07/02/1	16			
Trichlorofluoromethane	50.3	2.8	0.048	ug/m³	56.2	•	89.5	70-130			
Trichlorotrifluoroethane	68.7	3.8	0.17	ug/m³	76.6		89.7	70-130			
Vinyl acetate	40.8	1.8	0.90	ug/m³	35.2		116	70-130			
/inyl chloride	22.4	0.51	0.051	ug/m³	25.6		87.6	70-130			
Duplicate (B6G0719-DUP1)	;	Source: 1	1602832-0)1	Prepared	l & Analyze	ed: 07/02/1	16			
,1,1-Trichloroethane	3.44	2.7	0.044	ug/m³		3.46			0.658	25	
I,1,2,2-Tetrachloroethane	< 3.4	3.4	0.074	ug/m³		<3.4			NA	25	
,1,2-Trichloroethane	< 2.7	2.7	0.11	ug/m³		<2.7			NA	25	
,1-Dichloroethane	< 2.0	2.0	0.11	ug/m³		<2.0			NA	25	
,1-Dichloroethene	< 2.0	2.0	0.078	ug/m³		<2.0			NA	25	
,2,4-Trichlorobenzene	< 3.7	3.7	0.13	ug/m³		<3.7			NA	25	
,2,4-Trimethylbenzene	3.69	1.0	0.073	ug/m³		3.74			1.50	25	
,2-Dibromoethane	< 3.8	3.8	0.16	ug/m³		<3.8			NA	25	
,2-Dichlorobenzene	< 3.0	3.0	0.071	ug/m³		<3.0			NA	25	
,2-Dichloroethane	2.24	2.0	0.055	ug/m³		2.22			0.936	25	
,2-Dichloropropane	< 2.3	2.3	0.081	ug/m³		<2.3			NA	25	
,3,5-Trimethylbenzene	< 1.0	1.0	0.11	ug/m³		<1.0			NA	25	
,3-Butadiene	< 1.1	1.1	0.10	ug/m³		<1.1			NA	25	
,3-Dichlorobenzene	< 3.0	3.0	0.14	ug/m³		<3.0			NA	25	
,4-Dichlorobenzene	< 3.0	3.0	0.17	ug/m³		<3.0			NA	25	
-Butanone	2.90	1.5	0.078	ug/m³		2.86			1.31	25	
-Ethyltoluene	< 2.5	2.5	0.11	ug/m³		<2.5			NA	25	
Acetone	83.6	54	2.5	ug/m³		73.6			12.6	25	
Benzene	1.42	0.64	0.050	ug/m³		1.44			1.05	25	
Benzyl chloride	< 2.6	2.6	0.073	ug/m³		<2.6			NA	25	
Bromodichloromethane	< 3.4	3.4	0.13	ug/m³		<3.4			NA	25	
Bromoform	< 5.2	5.2	0.13	ug/m³		<5.2			NA	25	
Bromomethane	< 1.9	1.9	0.069	ug/m³		<1.9			NA	25	
Carbon disulfide	< 1.6	1.6	0.070	ug/m³		<1.6			NA	25	
Carbon tetrachloride	< 3.1	3.1	0.087	ug/m³		<3.1			NA	25	
Chlorobenzene	< 2.3	2.3	0.080	ug/m³		<2.3			NA	25	
Chloroethane	< 1.3	1.3	0.037	ug/m³		<1.3			NA	25	
Chloroform	< 2.4	2.4	0.055	ug/m³		<2.4			NA	25	
Chloromethane	1.07	1.0	0.044	ug/m³		1.09			1.50	25	
is-1,2-Dichloroethene	< 2.0	2.0	0.089	ug/m³		<2.0			NA	25	
sis-1,3-Dichloropropene	< 2.3	2.3	0.12	ug/m³		<2.3			NA	25	
Cyclohexane	2.22	1.7	0.059	ug/m³		2.19			1.37	25	
Dibromochloromethane	< 4.3	4.3	0.16	ug/m³		<4.3			NA	25	
Dichlorodifluoromethane	39.8	2.5	0.12	ug/m³		44.5			11.1	25	



Fax: 651-642-1239

Landmark Environmental Project: TO-15 2042 West 98th Street Project Number: CrC

Bloomington, MN 55431 Project Manager: Mr. Jason Skramstad Work Order #: 1602754 Date Reported: 07/08/16

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
Batch B6G0719 - TO-15											
Duplicate (B6G0719-DUP1)	5	Source: 1	602832-0)1	Prepared	l & Analyze	ed: 07/02/	16			
Dichlorotetrafluoroethane	< 3.5	3.5	0.063	ug/m³		<3.5			NA	25	
Ethanol	141	42	3.1	ug/m³		144			2.25	25	
Ethyl acetate	3.29	1.8	0.11	ug/m³		3.27			0.333	25	
Ethylbenzene	1.34	0.87	0.082	ug/m³		1.31			1.82	25	
Hexachlorobutadiene	< 5.3	5.3	0.27	ug/m³		<5.3			NA	25	
Isopropyl alcohol	1750	54	3.4	ug/m³		1770			1.28	25	
m,p-Xylene	4.43	1.7	0.15	ug/m³		4.38			1.15	25	
Methyl butyl ketone	< 2.0	2.0	0.12	ug/m³		<2.0			NA	25	
Methyl isobutyl ketone	< 2.0	2.0	0.11	ug/m³		<2.0			NA	25	
Methyl tert-butyl ether	< 1.8	1.8	0.11	ug/m³		<1.8			NA	25	
Methylene chloride	3.91	1.7	0.21	ug/m³		3.94			0.867	25	
Naphthalene	< 2.6	2.6	0.11	ug/m³		<2.6			NA	25	
n-Heptane	1.87	2.0	0.078	ug/m³		<2.0			NA	25	
n-Hexane	3.54	1.8	0.074	ug/m³		3.57			0.997	25	
o-Xylene	1.45	0.87	0.096	ug/m³		1.46			0.720	25	
Propylene	< 0.86	0.86	0.027	ug/m³		<0.86			NA	25	
Styrene	< 2.1	2.1	0.096	ug/m³		<2.1			NA	25	
Tetrachloroethene	< 3.4	3.4	0.13	ug/m³		<3.4			NA	25	
Tetrahydrofuran	< 1.5	1.5	0.038	ug/m³		<1.5			NA	25	
Toluene	11.3	0.75	0.060	ug/m³		11.8			3.78	25	
trans-1,2-Dichloroethene	< 2.0	2.0	0.11	ug/m³		<2.0			NA	25	
trans-1,3-Dichloropropene	< 2.3	2.3	0.070	ug/m³		<2.3			NA	25	
Trichloroethene	< 1.1	1.1	0.12	ug/m³		<1.1			NA	25	
Trichlorofluoromethane	< 2.8	2.8	0.048	ug/m³		<2.8			NA	25	
Trichlorotrifluoroethane	< 3.8	3.8	0.17	ug/m³		<3.8			NA	25	
Vinyl acetate	< 1.8	1.8	0.90	ug/m³		<1.8			NA	25	
Vinyl chloride	< 0.51	0.51	0.051	ug/m³		<0.51			NA	25	



Fax: 651-642-1239

Landmark Environmental	Project:	TO-15		
2042 West 98th Street	Project Number:	CrC	Work Order #:	1602754
Bloomington, MN 55431	Project Manager:	Mr. Jason Skramstad	Date Reported:	07/08/16

Notes and Definitions

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

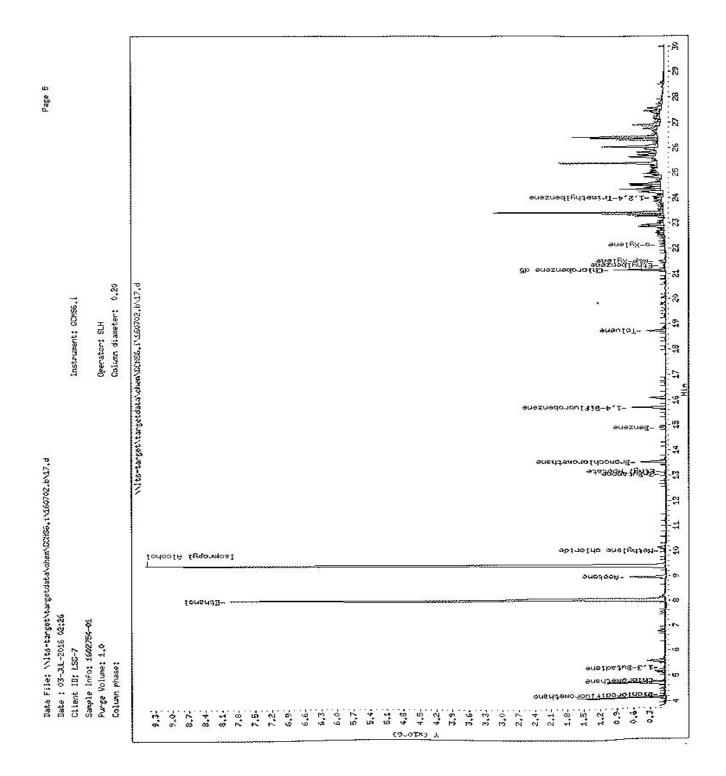
LCS Laboratory Control Spike = Blank Spike (BS) = Laboratory Fortified Blank (LFB)

88 Empire Drive

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

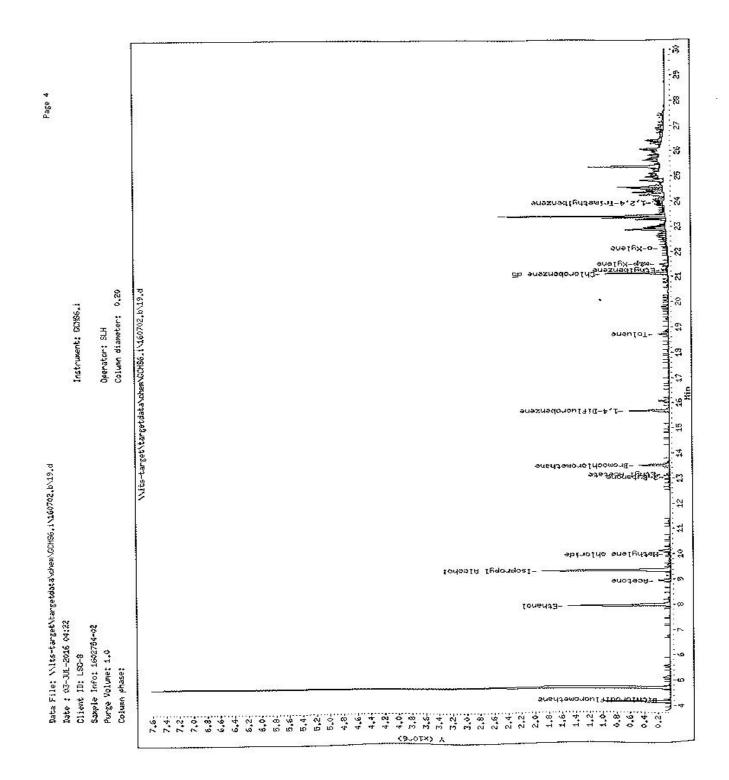
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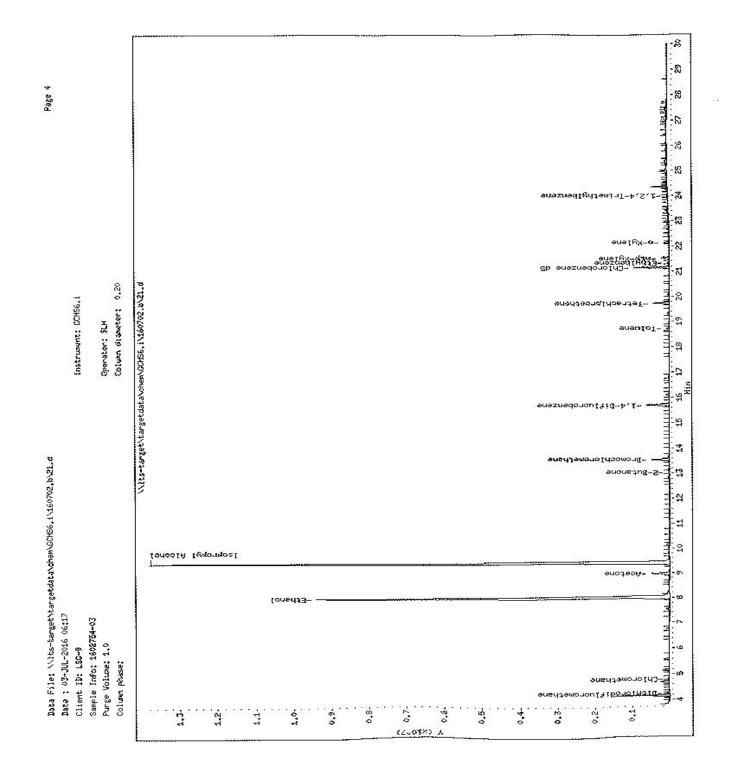




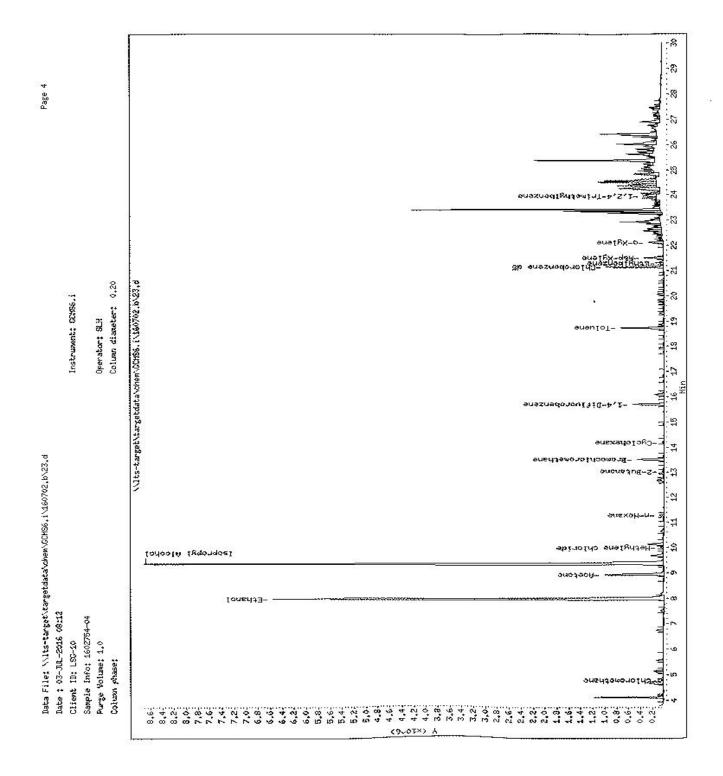
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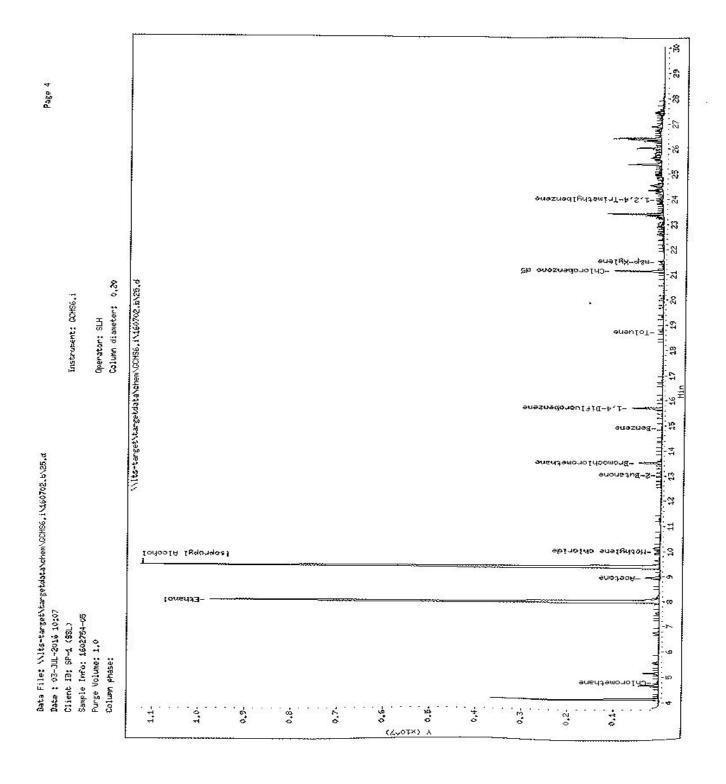




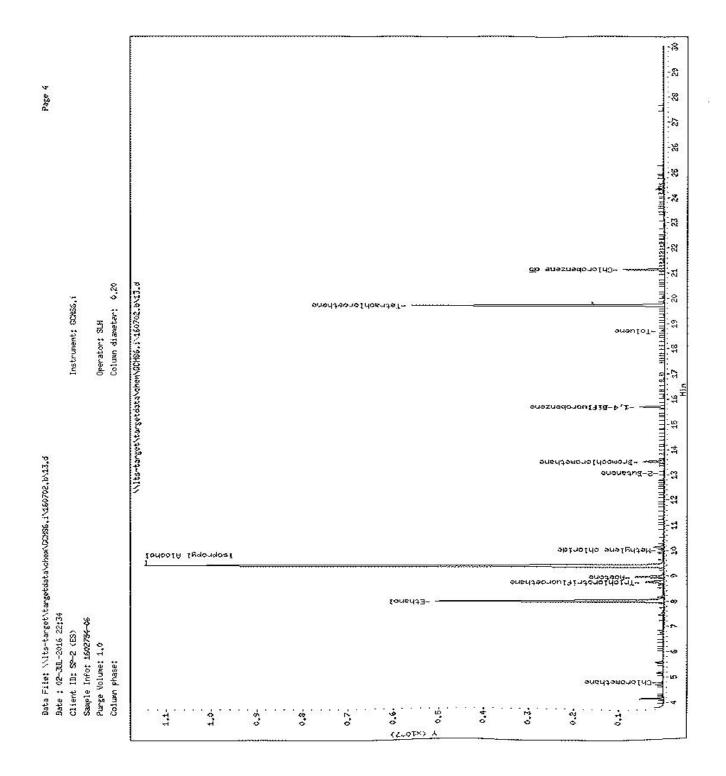




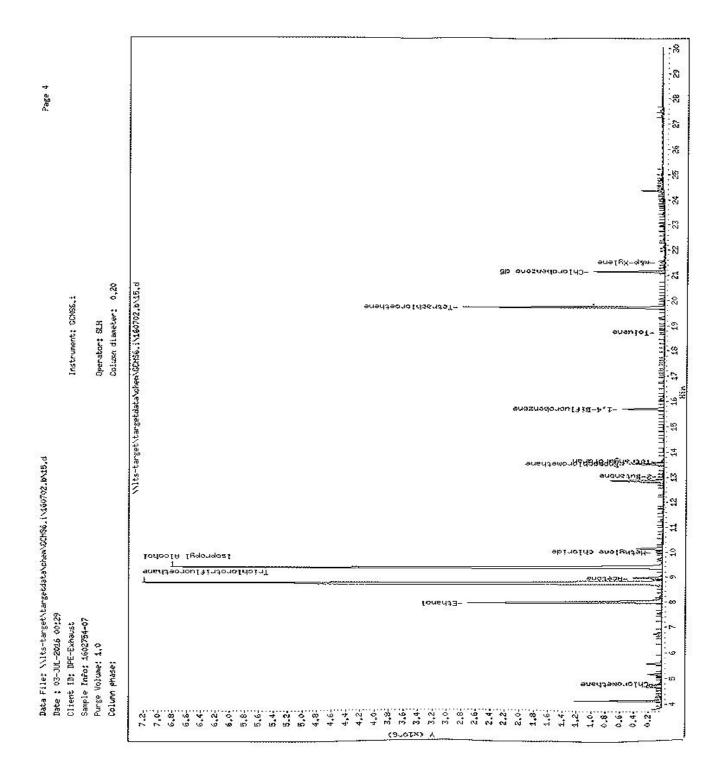
















December 23, 2015

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

RE: Project: CrC

Pace Project No.: 10333461

Dear Mr. Skramstad:

Enclosed are the analytical results for sample(s) received by the laboratory on December 15, 2015. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

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

Sincerely,

Oyeyemi Odujole oyeyemi.odujole@pacelabs.com Project Manager

Enclosures





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



CERTIFICATIONS

Project: CrC Pace Project No.: 10333461

Minnesota Certification IDs

1700 Elm Street SE Suite 200, Minneapolis, MN 55414

A2LA Certification #: 2926.01 Alaska Certification #: UST-078 Alaska Certification #MN00064 Alabama Certification #40770 Arizona Certification #: AZ-0014 Arkansas Certification #: 88-0680 California Certification #: 01155CA Colorado Certification #Pace Connecticut Certification #: PH-0256 EPA Region 8 Certification #: 8TMS-L Florida/NELAP Certification #: E87605

Guam Certification #:14-008r Georgia Certification #: 959 Georgia EPD #: Pace

Idaho Certification #: MN00064 Hawaii Certification #MN00064 Illinois Certification #: 200011 Indiana Certification#C-MN-01 Iowa Certification #: 368

Kansas Certification #: E-10167 Kentucky Dept of Envi. Protection - DW #90062 Kentucky Dept of Envi. Protection - WW #:90062

Louisiana DEQ Certification #: 3086 Louisiana DHH #: LA140001 Maine Certification #: 2013011 Maryland Certification #: 322

Michigan DEPH Certification #: 9909

Minnesota Certification #: 027-053-137 Mississippi Certification #: Pace Montana Certification #: MT0092 Nevada Certification #: MN_00064 Nebraska Certification #: Pace New Jersey Certification #: MN-002 New York Certification #: 11647

North Carolina Certification #: 530 North Carolina State Public Health #: 27700

North Dakota Certification #: R-036

Ohio EPA #: 4150 Ohio VAP Certification #: CL101 Oklahoma Certification #: 9507 Oregon Certification #: MN200001 Oregon Certification #: MN300001 Pennsylvania Certification #: 68-00563

Puerto Rico Certification Saipan (CNMI) #:MP0003 South Carolina #:74003001 Texas Certification #: T104704192 Tennessee Certification #: 02818 Utah Certification #: MN000642013-4 Virginia DGS Certification #: 251 Washington Certification #: C486 West Virginia Certification #: 382 West Virginia DHHR #:9952C

Wisconsin Certification #: 999407970





SAMPLE SUMMARY

Project: CrC
Pace Project No.: 10333461

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10333461001	DPE-1	Water	12/14/15 10:15	12/15/15 16:38
10333461002	DPE-2	Water	12/14/15 17:15	12/15/15 16:38
10333461003	DPE-3	Water	12/14/15 09:55	12/15/15 16:38
10333461004	DPE-4	Water	12/14/15 17:05	12/15/15 16:38
10333461005	DPE-5	Water	12/14/15 16:25	12/15/15 16:38
10333461006	DPE-6	Water	12/14/15 16:05	12/15/15 16:38
10333461007	DPE-7	Water	12/14/15 15:00	12/15/15 16:38
10333461008	DPE-8	Water	12/14/15 16:50	12/15/15 16:38
10333461009	MW-14	Water	12/14/15 15:15	12/15/15 16:38
10333461010	MW-15	Water	12/14/15 15:50	12/15/15 16:38
10333461011	MW-16	Water	12/14/15 16:35	12/15/15 16:38
10333461012	MW-17	Water	12/14/15 11:30	12/15/15 16:38
10333461013	MW-18	Water	12/14/15 11:45	12/15/15 16:38
10333461014	MW-19	Water	12/14/15 14:45	12/15/15 16:38
10333461015	MW-20	Water	12/14/15 15:25	12/15/15 16:38
10333461016	Trip Blank	Water	12/14/15 00:00	12/15/15 16:38

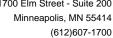




SAMPLE ANALYTE COUNT

Project: CrC
Pace Project No.: 10333461

Lab ID	Sample ID	Method	Analysts	Analytes Reported
10333461001	DPE-1	EPA 8260B	DJB	70
10333461002	DPE-2	EPA 8260B	DJB	70
10333461003	DPE-3	EPA 8260B	DJB	70
10333461004	DPE-4	EPA 8260B	LPM	70
10333461005	DPE-5	EPA 8260B	LPM	70
10333461006	DPE-6	EPA 8260B	DJB	70
10333461007	DPE-7	EPA 8260B	DJB	70
10333461008	DPE-8	EPA 8260B	DJB	70
10333461009	MW-14	EPA 8260B	DJB	70
10333461010	MW-15	EPA 8260B	DJB	70
10333461011	MW-16	EPA 8260B	DJB	70
10333461012	MW-17	EPA 8260B	DJB	70
10333461013	MW-18	EPA 8260B	DJB	70
10333461014	MW-19	EPA 8260B	LPM	70
10333461015	MW-20	EPA 8260B	LPM	70
10333461016	Trip Blank	EPA 8260B	DJB	70





Project: CrC
Pace Project No.: 10333461

Date: 12/23/2015 04:03 PM

Sample: DPE-1	Lab ID: 103	33461001	Collected: 12/14/1	5 10:15	Received:	12/15/15 16:38	Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qua
8260B VOC	Analytical Met	hod: EPA 82	260B					
Acetone	ND	ug/L	1000	50		12/18/15 16:1	6 67-64-1	
Allyl chloride	ND	ug/L	200	50		12/18/15 16:1	6 107-05-1	
Benzene	ND	ug/L	50.0	50		12/18/15 16:1	6 71-43-2	
Bromobenzene	ND	ug/L	50.0	50		12/18/15 16:1	6 108-86-1	
Bromochloromethane	ND	ug/L	50.0	50		12/18/15 16:1	6 74-97-5	
Bromodichloromethane	ND	ug/L	50.0	50		12/18/15 16:1	6 75-27-4	
Bromoform	ND	ug/L	200	50		12/18/15 16:1	6 75-25-2	
Bromomethane	ND	ug/L	200	50		12/18/15 16:1	6 74-83-9	
2-Butanone (MEK)	ND	ug/L	250	50		12/18/15 16:1	6 78-93-3	L3
n-Butylbenzene	ND	ug/L	50.0	50		12/18/15 16:1	6 104-51-8	
sec-Butylbenzene	ND	ug/L	50.0	50		12/18/15 16:1		
tert-Butylbenzene	ND	ug/L	50.0	50		12/18/15 16:1		
Carbon tetrachloride	ND	ug/L	50.0	50		12/18/15 16:1		
Chlorobenzene	ND	ug/L	50.0	50		12/18/15 16:1		
Chloroethane	ND	ug/L	50.0	50		12/18/15 16:1		
Chloroform	ND	ug/L	50.0	50		12/18/15 16:1		
Chloromethane	ND	ug/L	200	50		12/18/15 16:1		
2-Chlorotoluene	ND	ug/L	50.0	50		12/18/15 16:1		
4-Chlorotoluene	ND	ug/L ug/L	50.0	50		12/18/15 16:1		
1,2-Dibromo-3-chloropropane	ND	_	200	50		12/18/15 16:1		
		ug/L				12/18/15 16:1		
Dibromochloromethane	ND ND	ug/L	50.0 50.0	50 50		12/18/15 16:1	-	
1,2-Dibromoethane (EDB) Dibromomethane		ug/L						
	ND	ug/L	200	50		12/18/15 16:1		
1,2-Dichlorobenzene	ND	ug/L	50.0	50		12/18/15 16:1		
1,3-Dichlorobenzene	ND	ug/L	50.0	50		12/18/15 16:1		
1,4-Dichlorobenzene	ND	ug/L	50.0	50		12/18/15 16:1		
Dichlorodifluoromethane	ND	ug/L	50.0	50		12/18/15 16:1		
1,1-Dichloroethane	ND	ug/L	50.0	50		12/18/15 16:1		
1,2-Dichloroethane	ND	ug/L	50.0	50		12/18/15 16:1		
1,1-Dichloroethene	ND	ug/L	50.0	50		12/18/15 16:1		
cis-1,2-Dichloroethene	ND	ug/L	50.0	50		12/18/15 16:1		
trans-1,2-Dichloroethene	ND	ug/L	50.0	50		12/18/15 16:1		
Dichlorofluoromethane	ND	ug/L	50.0	50		12/18/15 16:1		
1,2-Dichloropropane	ND	ug/L	200	50		12/18/15 16:1	6 78-87-5	
1,3-Dichloropropane	ND	ug/L	50.0	50		12/18/15 16:1	6 142-28-9	
2,2-Dichloropropane	ND	ug/L	200	50		12/18/15 16:1	6 594-20-7	
1,1-Dichloropropene	ND	ug/L	50.0	50		12/18/15 16:1	6 563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	200	50		12/18/15 16:1	6 10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	200	50		12/18/15 16:1	6 10061-02-6	
Diethyl ether (Ethyl ether)	ND	ug/L	200	50		12/18/15 16:1	6 60-29-7	
Ethylbenzene	ND	ug/L	50.0	50		12/18/15 16:1	6 100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	50.0	50		12/18/15 16:1	6 87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	50.0	50		12/18/15 16:1	6 98-82-8	
p-Isopropyltoluene	ND	ug/L	50.0	50		12/18/15 16:1	6 99-87-6	
Methylene Chloride	ND	ug/L	200	50		12/18/15 16:1		
4-Methyl-2-pentanone (MIBK)	ND	ug/L	250	50		12/18/15 16:1		L3
Methyl-tert-butyl ether	ND	ug/L	50.0	50		12/18/15 16:1		

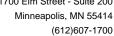




Project: CrC
Pace Project No.: 10333461

Date: 12/23/2015 04:03 PM

Sample: DPE-1	Lab ID: 103	33461001	Collected: 12/14/1	15 10:15	Received: 1	2/15/15 16:38	Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qua
8260B VOC	Analytical Meth	nod: EPA 82	260B					
Naphthalene	ND	ug/L	200	50		12/18/15 16:16	6 91-20-3	
n-Propylbenzene	ND	ug/L	50.0	50		12/18/15 16:16	5 103-65-1	
Styrene	ND	ug/L	50.0	50		12/18/15 16:16	6 100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	50.0	50		12/18/15 16:16	6 630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	50.0	50		12/18/15 16:16	6 79-34-5	L3
Tetrachloroethene	5490	ug/L	50.0	50		12/18/15 16:16	6 127-18-4	
Tetrahydrofuran	ND	ug/L	500	50		12/18/15 16:16	6 109-99-9	
Toluene	ND	ug/L	50.0	50		12/18/15 16:16	6 108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	50.0	50		12/18/15 16:16	6 87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	50.0	50		12/18/15 16:16	5 120-82-1	
1,1,1-Trichloroethane	ND	ug/L	50.0	50		12/18/15 16:16	6 71-55-6	
1,1,2-Trichloroethane	ND	ug/L	50.0	50		12/18/15 16:16	6 79-00-5	
Trichloroethene	ND	ug/L	20.0	50		12/18/15 16:16	6 79-01-6	
Trichlorofluoromethane	ND	ug/L	50.0	50		12/18/15 16:16	5 75-69-4	
1,2,3-Trichloropropane	ND	ug/L	200	50		12/18/15 16:16	96-18-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/L	50.0	50		12/18/15 16:16	6 76-13-1	
1,2,4-Trimethylbenzene	ND	ug/L	50.0	50		12/18/15 16:16	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	50.0	50		12/18/15 16:16	6 108-67-8	
Vinyl chloride	ND	ug/L	20.0	50		12/18/15 16:16	6 75-01-4	
Xylene (Total)	ND	ug/L	150	50		12/18/15 16:16	6 1330-20-7	
Surrogates								
1,2-Dichloroethane-d4 (S)	102	%.	75-125	50		12/18/15 16:16	5 17060-07-0	
Toluene-d8 (S)	96	%.	75-125	50		12/18/15 16:16	6 2037-26-5	
4-Bromofluorobenzene (S)	107	%.	75-125	50		12/18/15 16:16	6 460-00-4	





Project: CrC
Pace Project No.: 10333461

Date: 12/23/2015 04:03 PM

Sample: DPE-2	Lab ID: 103	33461002	Collected: 12/14/1	5 17:15	Received:	12/15/15 16:38	Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qua
8260B VOC	Analytical Meth	nod: EPA 82	260B					
Acetone	ND	ug/L	1000	50		12/18/15 16:3	2 67-64-1	
Allyl chloride	ND	ug/L	200	50		12/18/15 16:3	2 107-05-1	
Benzene	ND	ug/L	50.0	50		12/18/15 16:3	2 71-43-2	
Bromobenzene	ND	ug/L	50.0	50		12/18/15 16:3	2 108-86-1	
Bromochloromethane	ND	ug/L	50.0	50		12/18/15 16:3	2 74-97-5	
Bromodichloromethane	ND	ug/L	50.0	50		12/18/15 16:3	2 75-27-4	
Bromoform	ND	ug/L	200	50		12/18/15 16:3	2 75-25-2	
Bromomethane	ND	ug/L	200	50		12/18/15 16:3	2 74-83-9	
2-Butanone (MEK)	ND	ug/L	250	50		12/18/15 16:3	2 78-93-3	L3
n-Butylbenzene	ND	ug/L	50.0	50		12/18/15 16:3	2 104-51-8	
sec-Butylbenzene	ND	ug/L	50.0	50		12/18/15 16:3	2 135-98-8	
tert-Butylbenzene	ND	ug/L	50.0	50		12/18/15 16:3	2 98-06-6	
Carbon tetrachloride	ND	ug/L	50.0	50		12/18/15 16:3	2 56-23-5	
Chlorobenzene	ND	ug/L	50.0	50		12/18/15 16:3		
Chloroethane	ND	ug/L	50.0	50		12/18/15 16:3		
Chloroform	ND	ug/L	50.0	50		12/18/15 16:3		
Chloromethane	ND	ug/L	200	50		12/18/15 16:3		
2-Chlorotoluene	ND	ug/L	50.0	50		12/18/15 16:3		
4-Chlorotoluene	ND	ug/L	50.0	50		12/18/15 16:3		
1,2-Dibromo-3-chloropropane	ND	ug/L	200	50		12/18/15 16:3		
Dibromochloromethane	ND ND	ug/L	50.0	50		12/18/15 16:3		
1,2-Dibromoethane (EDB)	ND ND	ug/L	50.0	50		12/18/15 16:3		
Dibromomethane	ND ND	ug/L	200	50		12/18/15 16:3		
1,2-Dichlorobenzene	ND ND	_	50.0	50		12/18/15 16:3		
		ug/L		50 50				
1,3-Dichlorobenzene	ND	ug/L	50.0			12/18/15 16:3		
1,4-Dichlorobenzene	ND	ug/L	50.0	50		12/18/15 16:3		
Dichlorodifluoromethane	ND	ug/L	50.0	50		12/18/15 16:3		
1,1-Dichloroethane	ND	ug/L	50.0	50		12/18/15 16:3		
1,2-Dichloroethane	ND	ug/L	50.0	50		12/18/15 16:3		
1,1-Dichloroethene	ND	ug/L	50.0	50		12/18/15 16:3		
cis-1,2-Dichloroethene	ND	ug/L	50.0	50		12/18/15 16:3		
trans-1,2-Dichloroethene	ND	ug/L	50.0	50		12/18/15 16:3		
Dichlorofluoromethane	ND	ug/L	50.0	50		12/18/15 16:3		
1,2-Dichloropropane	ND	ug/L	200	50		12/18/15 16:3		
1,3-Dichloropropane	ND	ug/L	50.0	50		12/18/15 16:3		
2,2-Dichloropropane	ND	ug/L	200	50		12/18/15 16:3		
1,1-Dichloropropene	ND	ug/L	50.0	50		12/18/15 16:3		
cis-1,3-Dichloropropene	ND	ug/L	200	50			2 10061-01-5	
rans-1,3-Dichloropropene	ND	ug/L	200	50			2 10061-02-6	
Diethyl ether (Ethyl ether)	ND	ug/L	200	50		12/18/15 16:3		
Ethylbenzene	ND	ug/L	50.0	50		12/18/15 16:3		
Hexachloro-1,3-butadiene	ND	ug/L	50.0	50		12/18/15 16:3	2 87-68-3	
sopropylbenzene (Cumene)	ND	ug/L	50.0	50		12/18/15 16:3	2 98-82-8	
p-Isopropyltoluene	ND	ug/L	50.0	50		12/18/15 16:3	2 99-87-6	
Methylene Chloride	ND	ug/L	200	50		12/18/15 16:3	2 75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	250	50		12/18/15 16:3	2 108-10-1	L3
Methyl-tert-butyl ether	ND	ug/L	50.0	50		12/18/15 16:3	2 1634-04-4	





Project: CrC
Pace Project No.: 10333461

Date: 12/23/2015 04:03 PM

Sample: DPE-2	Lab ID: 103	33461002	Collected: 12/14/1	5 17:15	Received: 12	2/15/15 16:38 N	Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260B VOC	Analytical Meth	nod: EPA 82	260B					
Naphthalene	ND	ug/L	200	50		12/18/15 16:32	91-20-3	
n-Propylbenzene	ND	ug/L	50.0	50		12/18/15 16:32	103-65-1	
Styrene	ND	ug/L	50.0	50		12/18/15 16:32	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	50.0	50		12/18/15 16:32	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	50.0	50		12/18/15 16:32	79-34-5	L3
Tetrachloroethene	7680	ug/L	50.0	50		12/18/15 16:32	127-18-4	
Tetrahydrofuran	ND	ug/L	500	50		12/18/15 16:32	109-99-9	
Toluene	ND	ug/L	50.0	50		12/18/15 16:32	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	50.0	50		12/18/15 16:32	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	50.0	50		12/18/15 16:32	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	50.0	50		12/18/15 16:32	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	50.0	50		12/18/15 16:32	79-00-5	
Trichloroethene	ND	ug/L	20.0	50		12/18/15 16:32	79-01-6	
Trichlorofluoromethane	ND	ug/L	50.0	50		12/18/15 16:32	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	200	50		12/18/15 16:32	96-18-4	
1,1,2-Trichlorotrifluoroethane	426	ug/L	50.0	50		12/18/15 16:32	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/L	50.0	50		12/18/15 16:32	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	50.0	50		12/18/15 16:32	108-67-8	
Vinyl chloride	ND	ug/L	20.0	50		12/18/15 16:32	75-01-4	
Xylene (Total)	ND	ug/L	150	50		12/18/15 16:32	1330-20-7	
Surrogates	465	0.4	75	50		10/10/15 10 00	17000 07 0	
1,2-Dichloroethane-d4 (S)	103	%.	75-125	50		12/18/15 16:32		
Toluene-d8 (S)	98	%.	75-125	50		12/18/15 16:32		
4-Bromofluorobenzene (S)	104	%.	75-125	50		12/18/15 16:32	460-00-4	

(612)607-1700



ANALYTICAL RESULTS

Project: CrC
Pace Project No.: 10333461

Date: 12/23/2015 04:03 PM

Sample: DPE-3	Lab ID: 103	33461003	Collected: 12/14/	15 09:55	Received:	12/15/15 16:38	Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qua
8260B VOC	Analytical Met	hod: EPA 82	260B					
Acetone	ND	ug/L	4000	200		12/18/15 16:4	7 67-64-1	
Allyl chloride	ND	ug/L	800	200		12/18/15 16:4	7 107-05-1	
Benzene	ND	ug/L	200	200		12/18/15 16:4	7 71-43-2	
Bromobenzene	ND	ug/L	200	200		12/18/15 16:4	7 108-86-1	
Bromochloromethane	ND	ug/L	200	200		12/18/15 16:4	7 74-97-5	
Bromodichloromethane	ND	ug/L	200	200		12/18/15 16:4	7 75-27-4	
Bromoform	ND	ug/L	800	200		12/18/15 16:4	7 75-25-2	
Bromomethane	ND	ug/L	800	200		12/18/15 16:4	7 74-83-9	
2-Butanone (MEK)	ND	ug/L	1000	200		12/18/15 16:4	7 78-93-3	L3
n-Butylbenzene	ND	ug/L	200	200		12/18/15 16:4	7 104-51-8	
sec-Butylbenzene	ND	ug/L	200	200		12/18/15 16:4	7 135-98-8	
tert-Butylbenzene	ND	ug/L	200	200		12/18/15 16:4	7 98-06-6	
Carbon tetrachloride	ND	ug/L	200	200		12/18/15 16:4	7 56-23-5	
Chlorobenzene	ND	ug/L	200	200		12/18/15 16:4	7 108-90-7	
Chloroethane	ND	ug/L	200	200		12/18/15 16:4	7 75-00-3	
Chloroform	ND	ug/L	200	200		12/18/15 16:4	7 67-66-3	
Chloromethane	ND	ug/L	800	200		12/18/15 16:4	7 74-87-3	
2-Chlorotoluene	ND	ug/L	200	200		12/18/15 16:4	7 95-49-8	
4-Chlorotoluene	ND	ug/L	200	200		12/18/15 16:4		
1,2-Dibromo-3-chloropropane	ND	ug/L	800	200		12/18/15 16:4		
Dibromochloromethane	ND	ug/L	200	200		12/18/15 16:4		
1,2-Dibromoethane (EDB)	ND	ug/L	200	200		12/18/15 16:4		
Dibromomethane	ND	ug/L	800	200		12/18/15 16:4		
1,2-Dichlorobenzene	ND	ug/L	200	200		12/18/15 16:4		
1,3-Dichlorobenzene	ND	ug/L	200	200		12/18/15 16:4		
1,4-Dichlorobenzene	ND	ug/L	200	200		12/18/15 16:4		
Dichlorodifluoromethane	ND	ug/L	200	200		12/18/15 16:4		
1,1-Dichloroethane	ND	ug/L	200	200		12/18/15 16:4		
1,2-Dichloroethane	ND	ug/L	200	200		12/18/15 16:4		
1,1-Dichloroethene	ND	ug/L	200	200		12/18/15 16:4		
cis-1,2-Dichloroethene	ND	ug/L	200	200		12/18/15 16:4		
trans-1,2-Dichloroethene	ND	ug/L	200	200		12/18/15 16:4		
Dichlorofluoromethane	ND	ug/L	200	200		12/18/15 16:4		
1,2-Dichloropropane	ND	ug/L	800	200		12/18/15 16:4		
1,3-Dichloropropane	ND	ug/L	200	200		12/18/15 16:4		
2,2-Dichloropropane	ND ND	ug/L ug/L	800	200		12/18/15 16:4		
1,1-Dichloropropene	ND ND	ug/L ug/L	200	200		12/18/15 16:4		
cis-1,3-Dichloropropene	ND ND	ug/L ug/L	800	200			7 10061-01-5	
trans-1,3-Dichloropropene	ND ND	ug/L ug/L	800	200			7 10061-01-5	
' '		•				12/18/15 16:4		
Diethyl ether (Ethyl ether)	ND ND	ug/L	800	200		12/18/15 16:4		
Ethylbenzene	ND ND	ug/L	200	200				
Hexachloro-1,3-butadiene	ND	ug/L	200	200		12/18/15 16:4		
sopropylbenzene (Cumene)	ND	ug/L	200	200		12/18/15 16:4		
p-Isopropyltoluene	ND	ug/L	200	200		12/18/15 16:4		
Methylene Chloride	ND	ug/L	800	200		12/18/15 16:4		
4-Methyl-2-pentanone (MIBK)	ND	ug/L	1000	200		12/18/15 16:4		L3
Methyl-tert-butyl ether	ND	ug/L	200	200		12/18/15 16:4	7 1634-04-4	

REPORT OF LABORATORY ANALYSIS

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Project: CrC
Pace Project No.: 10333461

Date: 12/23/2015 04:03 PM

Sample: DPE-3	Lab ID: 1033	33461003	Collected: 12/14/1	15 09:55	Received: 12	2/15/15 16:38	Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qua
8260B VOC	Analytical Meth	od: EPA 82	260B					
Naphthalene	ND	ug/L	800	200		12/18/15 16:47	7 91-20-3	
n-Propylbenzene	ND	ug/L	200	200		12/18/15 16:47	7 103-65-1	
Styrene	ND	ug/L	200	200		12/18/15 16:47	7 100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	200	200		12/18/15 16:47	7 630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	200	200		12/18/15 16:47	7 79-34-5	L3
Tetrachloroethene	37300	ug/L	200	200		12/18/15 16:47	7 127-18-4	
Tetrahydrofuran	ND	ug/L	2000	200		12/18/15 16:47	7 109-99-9	
Toluene	ND	ug/L	200	200		12/18/15 16:47	7 108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	200	200		12/18/15 16:47	7 87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	200	200		12/18/15 16:47	7 120-82-1	
1,1,1-Trichloroethane	ND	ug/L	200	200		12/18/15 16:47	7 71-55-6	
1,1,2-Trichloroethane	ND	ug/L	200	200		12/18/15 16:47	7 79-00-5	
Trichloroethene	ND	ug/L	80.0	200		12/18/15 16:47	7 79-01-6	
Trichlorofluoromethane	ND	ug/L	200	200		12/18/15 16:47	7 75-69-4	
1,2,3-Trichloropropane	ND	ug/L	800	200		12/18/15 16:47	7 96-18-4	
1,1,2-Trichlorotrifluoroethane	2890	ug/L	200	200		12/18/15 16:47	7 76-13-1	
1,2,4-Trimethylbenzene	ND	ug/L	200	200		12/18/15 16:47	7 95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	200	200		12/18/15 16:47	7 108-67-8	
Vinyl chloride	ND	ug/L	80.0	200		12/18/15 16:47	75-01-4	
Xylene (Total)	ND	ug/L	600	200		12/18/15 16:47	7 1330-20-7	
Surrogates		_						
1,2-Dichloroethane-d4 (S)	101	%.	75-125	200		12/18/15 16:47	7 17060-07-0	
Toluene-d8 (S)	97	%.	75-125	200		12/18/15 16:47	7 2037-26-5	
4-Bromofluorobenzene (S)	104	%.	75-125	200		12/18/15 16:47	7 460-00-4	

(612)607-1700



ANALYTICAL RESULTS

Project: CrC
Pace Project No.: 10333461

Date: 12/23/2015 04:03 PM

Sample: DPE-4	Lab ID: 103	33461004	Collected: 12/14/1	15 17:05	Received:	12/15/15 16:38	Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qua
8260B VOC	Analytical Met	nod: EPA 82	260B					
Acetone	ND	ug/L	2000	100		12/22/15 14:2	2 67-64-1	
Allyl chloride	ND	ug/L	400	100		12/22/15 14:2	2 107-05-1	
Benzene	ND	ug/L	100	100		12/22/15 14:2	2 71-43-2	
Bromobenzene	ND	ug/L	100	100		12/22/15 14:2	2 108-86-1	
Bromochloromethane	ND	ug/L	100	100		12/22/15 14:2	2 74-97-5	
Bromodichloromethane	ND	ug/L	100	100		12/22/15 14:2	2 75-27-4	
Bromoform	ND	ug/L	400	100		12/22/15 14:2	2 75-25-2	
Bromomethane	ND	ug/L	400	100		12/22/15 14:2	2 74-83-9	CL
2-Butanone (MEK)	ND	ug/L	500	100		12/22/15 14:2	2 78-93-3	
n-Butylbenzene	ND	ug/L	100	100		12/22/15 14:2	2 104-51-8	
sec-Butylbenzene	ND	ug/L	100	100		12/22/15 14:2	2 135-98-8	
tert-Butylbenzene	ND	ug/L	100	100		12/22/15 14:2	2 98-06-6	
Carbon tetrachloride	ND	ug/L	100	100		12/22/15 14:2	2 56-23-5	
Chlorobenzene	ND	ug/L	100	100		12/22/15 14:2		
Chloroethane	ND	ug/L	100	100		12/22/15 14:2		
Chloroform	ND	ug/L	100	100		12/22/15 14:2		
Chloromethane	ND	ug/L	400	100		12/22/15 14:2		
2-Chlorotoluene	ND	ug/L	100	100		12/22/15 14:2		
4-Chlorotoluene	ND	ug/L	100	100		12/22/15 14:2		
1,2-Dibromo-3-chloropropane	ND	ug/L	400	100		12/22/15 14:2		
Dibromochloromethane	ND	ug/L	100	100		12/22/15 14:2		
1,2-Dibromoethane (EDB)	ND	ug/L	100	100		12/22/15 14:2		
Dibromomethane	ND	ug/L	400	100		12/22/15 14:2		
1,2-Dichlorobenzene	ND	ug/L	100	100		12/22/15 14:2		
1,3-Dichlorobenzene	ND ND	ug/L	100	100		12/22/15 14:2		
1,4-Dichlorobenzene	ND ND	-	100	100		12/22/15 14:2		
Dichlorodifluoromethane	ND ND	ug/L	100	100		12/22/15 14:2		
		ug/L						
1,1-Dichloroethane	ND	ug/L	100	100 100		12/22/15 14:2		
1,2-Dichloroethane	ND	ug/L	100			12/22/15 14:2		
1,1-Dichloroethene	ND	ug/L	100	100		12/22/15 14:2		
cis-1,2-Dichloroethene	ND	ug/L	100	100		12/22/15 14:2		
trans-1,2-Dichloroethene	ND	ug/L	100	100		12/22/15 14:2		
Dichlorofluoromethane	ND	ug/L	100	100		12/22/15 14:2		
1,2-Dichloropropane	ND	ug/L	400	100		12/22/15 14:2		
1,3-Dichloropropane	ND	ug/L	100	100		12/22/15 14:2		
2,2-Dichloropropane	ND	ug/L	400	100		12/22/15 14:2		
1,1-Dichloropropene	ND	ug/L	100	100		12/22/15 14:2		
cis-1,3-Dichloropropene	ND	ug/L	400	100			2 10061-01-5	
rans-1,3-Dichloropropene	ND	ug/L	400	100			2 10061-02-6	
Diethyl ether (Ethyl ether)	ND	ug/L	400	100		12/22/15 14:2		
Ethylbenzene	ND	ug/L	100	100		12/22/15 14:2		
Hexachloro-1,3-butadiene	ND	ug/L	100	100		12/22/15 14:2		
sopropylbenzene (Cumene)	ND	ug/L	100	100		12/22/15 14:2		
p-Isopropyltoluene	ND	ug/L	100	100		12/22/15 14:2	2 99-87-6	
Methylene Chloride	ND	ug/L	400	100		12/22/15 14:2	2 75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	500	100		12/22/15 14:2	2 108-10-1	
Methyl-tert-butyl ether	ND	ug/L	100	100		12/22/15 14:2	2 1634-04-4	





Project: CrC
Pace Project No.: 10333461

Date: 12/23/2015 04:03 PM

Sample: DPE-4	Lab ID: 10333461004		Collected: 12/14/15 17:05		Received: 12	2/15/15 16:38 N	Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260B VOC	Analytical Meth	nod: EPA 82	260B					
Naphthalene	ND	ug/L	400	100		12/22/15 14:22	91-20-3	
n-Propylbenzene	ND	ug/L	100	100		12/22/15 14:22	103-65-1	
Styrene	ND	ug/L	100	100		12/22/15 14:22	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	100	100		12/22/15 14:22	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	100	100		12/22/15 14:22	79-34-5	
Tetrachloroethene	6900	ug/L	100	100		12/22/15 14:22	127-18-4	
Tetrahydrofuran	ND	ug/L	1000	100		12/22/15 14:22	109-99-9	
Toluene	ND	ug/L	100	100		12/22/15 14:22	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	100	100		12/22/15 14:22	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	100	100		12/22/15 14:22	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	100	100		12/22/15 14:22	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	100	100		12/22/15 14:22	79-00-5	
Trichloroethene	ND	ug/L	40.0	100		12/22/15 14:22	79-01-6	
Trichlorofluoromethane	ND	ug/L	100	100		12/22/15 14:22	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	400	100		12/22/15 14:22	96-18-4	
1,1,2-Trichlorotrifluoroethane	663	ug/L	100	100		12/22/15 14:22	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/L	100	100		12/22/15 14:22	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	100	100		12/22/15 14:22	108-67-8	
Vinyl chloride	ND	ug/L	40.0	100		12/22/15 14:22	75-01-4	
Xylene (Total)	ND	ug/L	300	100		12/22/15 14:22	1330-20-7	
Surrogates								
1,2-Dichloroethane-d4 (S)	95	%.	75-125	100		12/22/15 14:22	17060-07-0	
Toluene-d8 (S)	93	%.	75-125	100		12/22/15 14:22	2037-26-5	
4-Bromofluorobenzene (S)	102	%.	75-125	100		12/22/15 14:22	460-00-4	

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ANALYTICAL RESULTS

Project: CrC
Pace Project No.: 10333461

Date: 12/23/2015 04:03 PM

Sample: DPE-5 Parameters	Lab ID: 10333461005		Collected: 12/14/1	Collected: 12/14/15 16:25		12/15/15 16:38	Matrix: Water	
	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260B VOC	Analytical Met	hod: EPA 82	260B					
Acetone	ND	ug/L	40.0	2		12/22/15 14:07	7 67-64-1	
Allyl chloride	ND	ug/L	8.0	2		12/22/15 14:07	7 107-05-1	
Benzene	ND	ug/L	2.0	2		12/22/15 14:07	7 71-43-2	
Bromobenzene	ND	ug/L	2.0	2		12/22/15 14:07	7 108-86-1	
Bromochloromethane	ND	ug/L	2.0	2		12/22/15 14:07	7 74-97-5	
Bromodichloromethane	ND	ug/L	2.0	2		12/22/15 14:07	7 75-27-4	
Bromoform	ND	ug/L	8.0	2		12/22/15 14:07	7 75-25-2	
Bromomethane	ND	ug/L	8.0	2		12/22/15 14:07	7 74-83-9	CL
2-Butanone (MEK)	ND	ug/L	10.0	2		12/22/15 14:07	7 78-93-3	
n-Butylbenzene	ND	ug/L	2.0	2		12/22/15 14:07	7 104-51-8	
sec-Butylbenzene	ND	ug/L	2.0	2		12/22/15 14:07	7 135-98-8	
tert-Butylbenzene	ND	ug/L	2.0	2		12/22/15 14:07	7 98-06-6	
Carbon tetrachloride	ND	ug/L	2.0	2		12/22/15 14:07	7 56-23-5	
Chlorobenzene	ND	ug/L	2.0	2		12/22/15 14:07	7 108-90-7	
Chloroethane	ND	ug/L	2.0	2		12/22/15 14:07	7 75-00-3	
Chloroform	ND	ug/L	2.0	2		12/22/15 14:07	7 67-66-3	
Chloromethane	ND	ug/L	8.0	2		12/22/15 14:07	7 74-87-3	
2-Chlorotoluene	ND	ug/L	2.0	2		12/22/15 14:07	7 95-49-8	
4-Chlorotoluene	ND	ug/L	2.0	2		12/22/15 14:07	7 106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	8.0	2		12/22/15 14:07	7 96-12-8	
Dibromochloromethane	ND	ug/L	2.0	2		12/22/15 14:07	7 124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	2.0	2		12/22/15 14:07	7 106-93-4	
Dibromomethane	ND	ug/L	8.0	2		12/22/15 14:07	7 74-95-3	
1,2-Dichlorobenzene	ND	ug/L	2.0	2		12/22/15 14:07	7 95-50-1	
1,3-Dichlorobenzene	ND	ug/L	2.0	2		12/22/15 14:07	7 541-73-1	
1,4-Dichlorobenzene	ND	ug/L	2.0	2		12/22/15 14:07	7 106-46-7	
Dichlorodifluoromethane	ND	ug/L	2.0	2		12/22/15 14:07		
1,1-Dichloroethane	ND	ug/L	2.0	2		12/22/15 14:07	7 75-34-3	
1,2-Dichloroethane	ND	ug/L	2.0	2		12/22/15 14:07	7 107-06-2	
1,1-Dichloroethene	ND	ug/L	2.0	2		12/22/15 14:07		
cis-1,2-Dichloroethene	3.1	ug/L	2.0	2		12/22/15 14:07		
trans-1,2-Dichloroethene	ND	ug/L	2.0	2		12/22/15 14:07		
Dichlorofluoromethane	ND	ug/L	2.0	2		12/22/15 14:07		
1,2-Dichloropropane	ND	ug/L	8.0	2		12/22/15 14:07		
1,3-Dichloropropane	ND	ug/L	2.0	2		12/22/15 14:07		
2,2-Dichloropropane	ND	ug/L	8.0	2		12/22/15 14:07		
1,1-Dichloropropene	ND	ug/L	2.0	2		12/22/15 14:07		
cis-1,3-Dichloropropene	ND	ug/L	8.0	2		12/22/15 14:07		
trans-1,3-Dichloropropene	ND	ug/L	8.0	2		12/22/15 14:07		
Diethyl ether (Ethyl ether)	ND	ug/L	8.0	2		12/22/15 14:07		
Ethylbenzene	ND	ug/L	2.0	2		12/22/15 14:07		
Hexachloro-1,3-butadiene	ND	ug/L	2.0	2		12/22/15 14:07		
Isopropylbenzene (Cumene)	ND	ug/L	2.0	2		12/22/15 14:07		
p-Isopropyltoluene	ND	ug/L	2.0	2		12/22/15 14:07		
Methylene Chloride	ND	ug/L	8.0	2		12/22/15 14:07		
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	2		12/22/15 14:07		
						14/44/10 14.0/	100-10-1	





Project: CrC
Pace Project No.: 10333461

Date: 12/23/2015 04:03 PM

Sample: DPE-5	Lab ID: 10333461005		Collected: 12/14/1	Collected: 12/14/15 16:25		2/15/15 16:38 N	Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260B VOC	Analytical Meth	nod: EPA 82	260B					
Naphthalene	ND	ug/L	8.0	2		12/22/15 14:07	91-20-3	
n-Propylbenzene	ND	ug/L	2.0	2		12/22/15 14:07	103-65-1	
Styrene	ND	ug/L	2.0	2		12/22/15 14:07	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	2.0	2		12/22/15 14:07	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	2.0	2		12/22/15 14:07	79-34-5	
Tetrachloroethene	263	ug/L	2.0	2		12/22/15 14:07	127-18-4	
Tetrahydrofuran	ND	ug/L	20.0	2		12/22/15 14:07	109-99-9	
Toluene	ND	ug/L	2.0	2		12/22/15 14:07	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	2		12/22/15 14:07	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	2		12/22/15 14:07	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	2.0	2		12/22/15 14:07	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	2.0	2		12/22/15 14:07	79-00-5	
Trichloroethene	ND	ug/L	0.80	2		12/22/15 14:07	79-01-6	
Trichlorofluoromethane	ND	ug/L	2.0	2		12/22/15 14:07	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	8.0	2		12/22/15 14:07	96-18-4	
1,1,2-Trichlorotrifluoroethane	63.3	ug/L	2.0	2		12/22/15 14:07	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/L	2.0	2		12/22/15 14:07	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	2.0	2		12/22/15 14:07	108-67-8	
Vinyl chloride	ND	ug/L	0.80	2		12/22/15 14:07	75-01-4	
Xylene (Total)	ND	ug/L	6.0	2		12/22/15 14:07	1330-20-7	
Surrogates 1,2-Dichloroethane-d4 (S)	99	%.	75-125	2		12/22/15 14:07	17060-07-0	
Toluene-d8 (S)	94	%.	75-125	2		12/22/15 14:07	2037-26-5	
4-Bromofluorobenzene (S)	103	%.	75-125	2		12/22/15 14:07	460-00-4	



ANALYTICAL RESULTS

Project: CrC
Pace Project No.: 10333461

Date: 12/23/2015 04:03 PM

Sample: DPE-6	Lab ID: 103	33461006	Collected: 12/14/1	15 16:05	Received:	12/15/15 16:38	Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qua
8260B VOC	Analytical Met	nod: EPA 82	260B					
Acetone	ND	ug/L	20.0	1		12/18/15 12:41	67-64-1	SS
Allyl chloride	ND	ug/L	4.0	1		12/18/15 12:41	107-05-1	
Benzene	ND	ug/L	1.0	1		12/18/15 12:41	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		12/18/15 12:41	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		12/18/15 12:41	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		12/18/15 12:41	75-27-4	
Bromoform	ND	ug/L	4.0	1		12/18/15 12:41	75-25-2	
Bromomethane	ND	ug/L	4.0	1		12/18/15 12:41	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	1		12/18/15 12:41	78-93-3	L3
n-Butylbenzene	ND	ug/L	1.0	1		12/18/15 12:41	104-51-8	
sec-Butylbenzene	ND	ug/L	1.0	1		12/18/15 12:41	135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	1		12/18/15 12:41	98-06-6	
Carbon tetrachloride	ND	ug/L	1.0	1		12/18/15 12:41	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		12/18/15 12:41	108-90-7	
Chloroethane	ND	ug/L	1.0	1		12/18/15 12:41	75-00-3	
Chloroform	ND	ug/L	1.0	1		12/18/15 12:41	67-66-3	
Chloromethane	ND	ug/L	4.0	1		12/18/15 12:41	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		12/18/15 12:41	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		12/18/15 12:41	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	4.0	1		12/18/15 12:41	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		12/18/15 12:41	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		12/18/15 12:41	106-93-4	
Dibromomethane	ND	ug/L	4.0	1		12/18/15 12:41	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		12/18/15 12:41	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		12/18/15 12:41	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		12/18/15 12:41	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		12/18/15 12:41	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		12/18/15 12:41	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		12/18/15 12:41	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		12/18/15 12:41		
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		12/18/15 12:41		
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		12/18/15 12:41		
Dichlorofluoromethane	ND	ug/L	1.0	1		12/18/15 12:41		
1,2-Dichloropropane	ND	ug/L	4.0	1		12/18/15 12:41		
1,3-Dichloropropane	ND	ug/L	1.0	1		12/18/15 12:41	142-28-9	
2,2-Dichloropropane	ND	ug/L	4.0	1		12/18/15 12:41		
1,1-Dichloropropene	ND	ug/L	1.0	1		12/18/15 12:41		
cis-1,3-Dichloropropene	ND	ug/L	4.0	1		12/18/15 12:41		
trans-1,3-Dichloropropene	ND	ug/L	4.0	1		12/18/15 12:41		
Diethyl ether (Ethyl ether)	ND	ug/L	4.0	1		12/18/15 12:41		
Ethylbenzene	ND	ug/L	1.0	1		12/18/15 12:41		
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		12/18/15 12:41		
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		12/18/15 12:41		
p-Isopropyltoluene	ND	ug/L	1.0	1		12/18/15 12:41		
Methylene Chloride	ND	ug/L	4.0	1		12/18/15 12:41		
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		12/18/15 12:41		L3
		uu/L	5.0			12/10/10 12.4	100 10-1	LU

REPORT OF LABORATORY ANALYSIS

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Project: CrC
Pace Project No.: 10333461

Date: 12/23/2015 04:03 PM

Sample: DPE-6	Lab ID: 103	33461006	Collected: 12/14/1	15 16:05	Received:	12/15/15 16:38	Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260B VOC	Analytical Met	hod: EPA 82	260B					
Naphthalene	ND	ug/L	4.0	1		12/18/15 12:4	1 91-20-3	
n-Propylbenzene	ND	ug/L	1.0	1		12/18/15 12:4°	1 103-65-1	
Styrene	ND	ug/L	1.0	1		12/18/15 12:4°	1 100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		12/18/15 12:4°	1 630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		12/18/15 12:4°	1 79-34-5	L3
Tetrachloroethene	67.8	ug/L	1.0	1		12/18/15 12:4°	1 127-18-4	M1
Tetrahydrofuran	ND	ug/L	10.0	1		12/18/15 12:4°	1 109-99-9	M1,SS
Toluene	ND	ug/L	1.0	1		12/18/15 12:4°	1 108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		12/18/15 12:4°	1 87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		12/18/15 12:4°	1 120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		12/18/15 12:4	1 71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		12/18/15 12:4°	1 79-00-5	
Trichloroethene	ND	ug/L	0.40	1		12/18/15 12:4°	1 79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		12/18/15 12:4	1 75-69-4	
1,2,3-Trichloropropane	ND	ug/L	4.0	1		12/18/15 12:4	1 96-18-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/L	1.0	1		12/18/15 12:4	1 76-13-1	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1		12/18/15 12:4°	1 95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1		12/18/15 12:4	1 108-67-8	
Vinyl chloride	ND	ug/L	0.40	1		12/18/15 12:4	1 75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		12/18/15 12:4	1 1330-20-7	
Surrogates		J						
1,2-Dichloroethane-d4 (S)	101	%.	75-125	1		12/18/15 12:4°	1 17060-07-0	
Toluene-d8 (S)	97	%.	75-125	1		12/18/15 12:4°	1 2037-26-5	
4-Bromofluorobenzene (S)	105	%.	75-125	1		12/18/15 12:4°	1 460-00-4	



ANALYTICAL RESULTS

Project: CrC
Pace Project No.: 10333461

Date: 12/23/2015 04:03 PM

Sample: DPE-7	Lab ID: 103	33461007	Collected: 12/14/1	15 15:00	Received: 1	12/15/15 16:38 I	Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260B VOC	Analytical Met	nod: EPA 82	260B					
Acetone	ND	ug/L	20.0	1		12/18/15 13:27	67-64-1	
Allyl chloride	ND	ug/L	4.0	1		12/18/15 13:27	107-05-1	
Benzene	ND	ug/L	1.0	1		12/18/15 13:27	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		12/18/15 13:27	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		12/18/15 13:27	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		12/18/15 13:27	75-27-4	
Bromoform	ND	ug/L	4.0	1		12/18/15 13:27	75-25-2	
Bromomethane	ND	ug/L	4.0	1		12/18/15 13:27	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	1		12/18/15 13:27	78-93-3	L3
n-Butylbenzene	ND	ug/L	1.0	1		12/18/15 13:27		
sec-Butylbenzene	ND	ug/L	1.0	1		12/18/15 13:27		
tert-Butylbenzene	ND	ug/L	1.0	1		12/18/15 13:27		
Carbon tetrachloride	ND	ug/L	1.0	1		12/18/15 13:27		
Chlorobenzene	ND	ug/L	1.0	1		12/18/15 13:27		
Chloroethane	ND	ug/L	1.0	1		12/18/15 13:27		
Chloroform	ND	ug/L	1.0	1		12/18/15 13:27		
Chloromethane	ND	ug/L	4.0	1		12/18/15 13:27		
2-Chlorotoluene	ND	ug/L	1.0	1		12/18/15 13:27		
4-Chlorotoluene	ND	ug/L	1.0	1		12/18/15 13:27		
1,2-Dibromo-3-chloropropane	ND ND	ug/L	4.0	1		12/18/15 13:27		
Dibromochloromethane	ND ND	-	1.0	1		12/18/15 13:27		
	ND ND	ug/L	1.0	1		12/18/15 13:27		
1,2-Dibromoethane (EDB) Dibromomethane	ND ND	ug/L	4.0	1		12/18/15 13:27		
		ug/L		1				
1,2-Dichlorobenzene	ND	ug/L	1.0			12/18/15 13:27		
1,3-Dichlorobenzene	ND	ug/L	1.0	1		12/18/15 13:27		
1,4-Dichlorobenzene	ND	ug/L	1.0	1		12/18/15 13:27		
Dichlorodifluoromethane	ND	ug/L	1.0	1		12/18/15 13:27		
1,1-Dichloroethane	ND	ug/L	1.0	1		12/18/15 13:27		
1,2-Dichloroethane	ND	ug/L	1.0	1		12/18/15 13:27		
1,1-Dichloroethene	ND	ug/L	1.0	1		12/18/15 13:27		
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		12/18/15 13:27		
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		12/18/15 13:27		
Dichlorofluoromethane	ND	ug/L	1.0	1		12/18/15 13:27		
1,2-Dichloropropane	ND	ug/L	4.0	1		12/18/15 13:27		
1,3-Dichloropropane	ND	ug/L	1.0	1		12/18/15 13:27		
2,2-Dichloropropane	ND	ug/L	4.0	1		12/18/15 13:27	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		12/18/15 13:27	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	4.0	1		12/18/15 13:27	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	4.0	1		12/18/15 13:27	10061-02-6	
Diethyl ether (Ethyl ether)	ND	ug/L	4.0	1		12/18/15 13:27	60-29-7	
Ethylbenzene	ND	ug/L	1.0	1		12/18/15 13:27	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		12/18/15 13:27	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		12/18/15 13:27	98-82-8	
p-Isopropyltoluene	ND	ug/L	1.0	1		12/18/15 13:27	99-87-6	
Methylene Chloride	ND	ug/L	4.0	1		12/18/15 13:27		
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		12/18/15 13:27		L3
Methyl-tert-butyl ether	ND	ug/L	1.0	1		12/18/15 13:27		

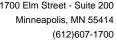




Project: CrC
Pace Project No.: 10333461

Date: 12/23/2015 04:03 PM

Sample: DPE-7	Lab ID: 103	33461007	Collected: 12/14/1	5 15:00	Received: 1	2/15/15 16:38	Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260B VOC	Analytical Meth	nod: EPA 82	260B					
Naphthalene	ND	ug/L	4.0	1		12/18/15 13:27	91-20-3	
n-Propylbenzene	ND	ug/L	1.0	1		12/18/15 13:27	7 103-65-1	
Styrene	ND	ug/L	1.0	1		12/18/15 13:27	7 100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		12/18/15 13:27	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		12/18/15 13:27	79-34-5	L3
Tetrachloroethene	146	ug/L	1.0	1		12/18/15 13:27	127-18-4	
Tetrahydrofuran	ND	ug/L	10.0	1		12/18/15 13:27	109-99-9	
Toluene	ND	ug/L	1.0	1		12/18/15 13:27	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		12/18/15 13:27	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		12/18/15 13:27	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		12/18/15 13:27	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		12/18/15 13:27	79-00-5	
Trichloroethene	ND	ug/L	0.40	1		12/18/15 13:27	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		12/18/15 13:27	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	4.0	1		12/18/15 13:27	7 96-18-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/L	1.0	1		12/18/15 13:27	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1		12/18/15 13:27	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1		12/18/15 13:27	108-67-8	
Vinyl chloride	ND	ug/L	0.40	1		12/18/15 13:27	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		12/18/15 13:27	1330-20-7	
Surrogates		-						
1,2-Dichloroethane-d4 (S)	102	%.	75-125	1		12/18/15 13:27	7 17060-07-0	
Toluene-d8 (S)	99	%.	75-125	1		12/18/15 13:27	2037-26-5	
4-Bromofluorobenzene (S)	105	%.	75-125	1		12/18/15 13:27	460-00-4	





Project: CrC
Pace Project No.: 10333461

Date: 12/23/2015 04:03 PM

Sample: DPE-8	Lab ID:	10333461008	Collected: 12/14	/15 16:50	Received:	12/15/15 16:38	Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qua
8260B VOC	Analytical	Method: EPA 82	260B					
Acetone	NE	O ug/L	500	25		12/18/15 15:4	6 67-64-1	
Allyl chloride	N	O ug/L	100	25		12/18/15 15:4	6 107-05-1	
Benzene	NE	O ug/L	25.0	25		12/18/15 15:4	6 71-43-2	
Bromobenzene	NE	O ug/L	25.0	25		12/18/15 15:4	6 108-86-1	
Bromochloromethane	NE	O ug/L	25.0	25		12/18/15 15:4	6 74-97-5	
Bromodichloromethane	NE	O ug/L	25.0	25		12/18/15 15:4	6 75-27-4	
Bromoform	NE	O ug/L	100	25		12/18/15 15:4	6 75-25-2	
Bromomethane	NE	O ug/L	100	25		12/18/15 15:4	6 74-83-9	
2-Butanone (MEK)	NE		125	25		12/18/15 15:4	6 78-93-3	L3
n-Butylbenzene	NE	_	25.0	25		12/18/15 15:4	6 104-51-8	
sec-Butylbenzene	NE	_	25.0	25		12/18/15 15:4	6 135-98-8	
tert-Butylbenzene	NE	-	25.0	25		12/18/15 15:4	6 98-06-6	
Carbon tetrachloride	NE	•	25.0	25		12/18/15 15:4	6 56-23-5	
Chlorobenzene	NE	_	25.0	25		12/18/15 15:4	6 108-90-7	
Chloroethane	NE	_	25.0	25		12/18/15 15:4		
Chloroform	NE	_	25.0			12/18/15 15:4	6 67-66-3	
Chloromethane	N	U	100			12/18/15 15:4		
2-Chlorotoluene	NI	•	25.0			12/18/15 15:4		
4-Chlorotoluene	NI		25.0			12/18/15 15:4		
1,2-Dibromo-3-chloropropane	NI	_	100			12/18/15 15:4		
Dibromochloromethane	NI	_	25.0			12/18/15 15:4		
1,2-Dibromoethane (EDB)	NE	U	25.0			12/18/15 15:4	-	
Dibromomethane	NE	•	100			12/18/15 15:4		
1,2-Dichlorobenzene	NE	_	25.0			12/18/15 15:4		
1,3-Dichlorobenzene	NE	_	25.0			12/18/15 15:4		
1,4-Dichlorobenzene	NE	_	25.0			12/18/15 15:4		
Dichlorodifluoromethane	NE	U	25.0			12/18/15 15:4		
1,1-Dichloroethane	NE	•	25.0			12/18/15 15:4		
1,2-Dichloroethane	NE		25.0			12/18/15 15:4		
1,1-Dichloroethene	NE	_	25.0			12/18/15 15:4		
cis-1,2-Dichloroethene	NE	_	25.0			12/18/15 15:4		
trans-1,2-Dichloroethene	NE	U	25.0			12/18/15 15:4		
Dichlorofluoromethane	NE	•	25.0			12/18/15 15:4		
1,2-Dichloropropane	NE	_	100			12/18/15 15:4		
1,3-Dichloropropane	NE	_	25.0			12/18/15 15:4		
2,2-Dichloropropane	NE		100			12/18/15 15:4		
1,1-Dichloropropene	NE NE	-	25.0			12/18/15 15:4		
cis-1,3-Dichloropropene	NE	•	100				6 10061-01-5	
trans-1,3-Dichloropropene	NE NE	•	100				6 10061-01-5	
Diethyl ether (Ethyl ether)	NE NE	•	100			12/18/15 15:4		
Ethylbenzene	NE NE	J	25.0			12/18/15 15:4		
Hexachloro-1,3-butadiene	NE NE	-	25.0			12/18/15 15:4		
Isopropylbenzene (Cumene)	NE NE	•	25.0 25.0			12/18/15 15:4		
p-Isopropyltoluene	NI NI	•	25.0			12/18/15 15:4		
Methylene Chloride	NE	•	100			12/18/15 15:4		1.0
4-Methyl-2-pentanone (MIBK)	NE	•	125			12/18/15 15:4		L3
Methyl-tert-butyl ether	NI	O ug/L	25.0	25		12/18/15 15:4	6 1634-04-4	





Project: CrC
Pace Project No.: 10333461

Date: 12/23/2015 04:03 PM

Sample: DPE-8	Lab ID: 103	33461008	Collected: 12/14/1	5 16:50	Received: 12	2/15/15 16:38 N	Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260B VOC	Analytical Meth	nod: EPA 82	260B					
Naphthalene	ND	ug/L	100	25		12/18/15 15:46	91-20-3	
n-Propylbenzene	ND	ug/L	25.0	25		12/18/15 15:46	103-65-1	
Styrene	ND	ug/L	25.0	25		12/18/15 15:46	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	25.0	25		12/18/15 15:46	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	25.0	25		12/18/15 15:46	79-34-5	L3
Tetrachloroethene	2700	ug/L	25.0	25		12/18/15 15:46	127-18-4	
Tetrahydrofuran	ND	ug/L	250	25		12/18/15 15:46	109-99-9	
Toluene	ND	ug/L	25.0	25		12/18/15 15:46	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	25.0	25		12/18/15 15:46	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	25.0	25		12/18/15 15:46	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	25.0	25		12/18/15 15:46	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	25.0	25		12/18/15 15:46	79-00-5	
Trichloroethene	ND	ug/L	10.0	25		12/18/15 15:46	79-01-6	
Trichlorofluoromethane	ND	ug/L	25.0	25		12/18/15 15:46	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	100	25		12/18/15 15:46	96-18-4	
1,1,2-Trichlorotrifluoroethane	174	ug/L	25.0	25		12/18/15 15:46	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/L	25.0	25		12/18/15 15:46	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	25.0	25		12/18/15 15:46	108-67-8	
Vinyl chloride	ND	ug/L	10.0	25		12/18/15 15:46	75-01-4	
Xylene (Total)	ND	ug/L	75.0	25		12/18/15 15:46	1330-20-7	
Surrogates								
1,2-Dichloroethane-d4 (S)	105	%.	75-125	25		12/18/15 15:46		
Toluene-d8 (S)	97	%.	75-125	25		12/18/15 15:46		
4-Bromofluorobenzene (S)	103	%.	75-125	25		12/18/15 15:46	460-00-4	



ANALYTICAL RESULTS

Project: CrC
Pace Project No.: 10333461

Date: 12/23/2015 04:03 PM

Sample: MW-14	Lab ID: 103	33461009	Collected: 12/14/1	15 15:15	Received:	12/15/15 16:38	Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qua
8260B VOC	Analytical Metl	nod: EPA 82	260B					
Acetone	ND	ug/L	20.0	1		12/18/15 13:5	8 67-64-1	
Allyl chloride	ND	ug/L	4.0	1		12/18/15 13:5	8 107-05-1	
Benzene	ND	ug/L	1.0	1		12/18/15 13:5	8 71-43-2	
Bromobenzene	ND	ug/L	1.0	1		12/18/15 13:5	8 108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		12/18/15 13:5	8 74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		12/18/15 13:5	8 75-27-4	
Bromoform	ND	ug/L	4.0	1		12/18/15 13:5	8 75-25-2	
Bromomethane	ND	ug/L	4.0	1		12/18/15 13:5	8 74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	1		12/18/15 13:5	8 78-93-3	L3
n-Butylbenzene	ND	ug/L	1.0	1		12/18/15 13:5	8 104-51-8	
sec-Butylbenzene	ND	ug/L	1.0	1		12/18/15 13:5	8 135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	1		12/18/15 13:5	8 98-06-6	
Carbon tetrachloride	ND	ug/L	1.0	1		12/18/15 13:5	8 56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		12/18/15 13:5	8 108-90-7	
Chloroethane	ND	ug/L	1.0	1		12/18/15 13:5		
Chloroform	1.8	ug/L	1.0	1		12/18/15 13:5		
Chloromethane	ND	ug/L	4.0	1		12/18/15 13:5		
2-Chlorotoluene	ND	ug/L	1.0	1		12/18/15 13:5		
4-Chlorotoluene	ND	ug/L	1.0	1		12/18/15 13:5		
1,2-Dibromo-3-chloropropane	ND	ug/L	4.0	1		12/18/15 13:5		
Dibromochloromethane	ND	ug/L	1.0	1		12/18/15 13:5		
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		12/18/15 13:5		
Dibromomethane	ND	ug/L	4.0	1		12/18/15 13:5		
1,2-Dichlorobenzene	ND	ug/L	1.0	1		12/18/15 13:5		
1,3-Dichlorobenzene	ND ND	ug/L	1.0	1		12/18/15 13:5		
1,4-Dichlorobenzene	ND ND	ug/L	1.0	1		12/18/15 13:5		
Dichlorodifluoromethane	ND ND	ug/L	1.0	1		12/18/15 13:5		
1,1-Dichloroethane	ND ND	ug/L	1.0	1		12/18/15 13:5		
1,2-Dichloroethane	ND ND	ug/L	1.0	1		12/18/15 13:5		
1,1-Dichloroethane	ND ND	ug/L	1.0	1		12/18/15 13:5		
cis-1,2-Dichloroethene	ND ND		1.0	1		12/18/15 13:5		
trans-1,2-Dichloroethene	ND ND	ug/L	1.0	1		12/18/15 13:5		
Dichlorofluoromethane	ND ND	ug/L	1.0	1		12/18/15 13:5		
		ug/L						
1,2-Dichloropropane	ND	ug/L	4.0	1		12/18/15 13:5		
1,3-Dichloropropane	ND	ug/L	1.0	1		12/18/15 13:5		
2,2-Dichloropropane	ND	ug/L	4.0	1		12/18/15 13:5		
1,1-Dichloropropene	ND	ug/L	1.0	1		12/18/15 13:5		
cis-1,3-Dichloropropene	ND	ug/L	4.0	1			8 10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	4.0	1			8 10061-02-6	
Diethyl ether (Ethyl ether)	ND	ug/L	4.0	1		12/18/15 13:5		
Ethylbenzene	ND	ug/L	1.0	1		12/18/15 13:5		
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		12/18/15 13:5		
sopropylbenzene (Cumene)	ND	ug/L	1.0	1		12/18/15 13:5		
p-Isopropyltoluene	ND	ug/L	1.0	1		12/18/15 13:5		
Methylene Chloride	ND	ug/L	4.0	1		12/18/15 13:5		
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		12/18/15 13:5		L3
Methyl-tert-butyl ether	ND	ug/L	1.0	1		12/18/15 13:5	8 1634-04-4	

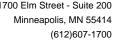




Project: CrC
Pace Project No.: 10333461

Date: 12/23/2015 04:03 PM

Sample: MW-14	Lab ID: 103	33461009	Collected: 12/14/1	15 15:15	Received: 1	2/15/15 16:38 N	/latrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260B VOC	Analytical Meth	nod: EPA 82	260B					
Naphthalene	ND	ug/L	4.0	1		12/18/15 13:58	91-20-3	
n-Propylbenzene	ND	ug/L	1.0	1		12/18/15 13:58	103-65-1	
Styrene	ND	ug/L	1.0	1		12/18/15 13:58	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		12/18/15 13:58	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		12/18/15 13:58	79-34-5	L3
Tetrachloroethene	88.3	ug/L	1.0	1		12/18/15 13:58	127-18-4	
Tetrahydrofuran	ND	ug/L	10.0	1		12/18/15 13:58	109-99-9	
Toluene	ND	ug/L	1.0	1		12/18/15 13:58	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		12/18/15 13:58	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		12/18/15 13:58	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		12/18/15 13:58	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		12/18/15 13:58	79-00-5	
Trichloroethene	ND	ug/L	0.40	1		12/18/15 13:58	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		12/18/15 13:58	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	4.0	1		12/18/15 13:58	96-18-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/L	1.0	1		12/18/15 13:58	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1		12/18/15 13:58	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1		12/18/15 13:58	108-67-8	
Vinyl chloride	ND	ug/L	0.40	1		12/18/15 13:58	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		12/18/15 13:58	1330-20-7	
Surrogates		-						
1,2-Dichloroethane-d4 (S)	104	%.	75-125	1		12/18/15 13:58	17060-07-0	
Toluene-d8 (S)	97	%.	75-125	1		12/18/15 13:58	2037-26-5	
4-Bromofluorobenzene (S)	103	%.	75-125	1		12/18/15 13:58	460-00-4	





Project: CrC
Pace Project No.: 10333461

Date: 12/23/2015 04:03 PM

Sample: MW-15	Lab ID: 103	33461010	Collected: 12/14/1	5 15:50	Received: 1	12/15/15 16:38	Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260B VOC	Analytical Met	nod: EPA 82	260B					
Acetone	ND	ug/L	20.0	1		12/18/15 14:13	3 67-64-1	
Allyl chloride	ND	ug/L	4.0	1		12/18/15 14:13	3 107-05-1	
Benzene	ND	ug/L	1.0	1		12/18/15 14:13	3 71-43-2	
Bromobenzene	ND	ug/L	1.0	1		12/18/15 14:13	3 108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		12/18/15 14:13	3 74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		12/18/15 14:13	3 75-27-4	
Bromoform	ND	ug/L	4.0	1		12/18/15 14:13	3 75-25-2	
Bromomethane	ND	ug/L	4.0	1		12/18/15 14:13	3 74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	1		12/18/15 14:13	3 78-93-3	L3
n-Butylbenzene	ND	ug/L	1.0	1		12/18/15 14:13	3 104-51-8	
sec-Butylbenzene	ND	ug/L	1.0	1		12/18/15 14:13	3 135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	1		12/18/15 14:13	3 98-06-6	
Carbon tetrachloride	ND	ug/L	1.0	1		12/18/15 14:13	3 56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		12/18/15 14:13	3 108-90-7	
Chloroethane	ND	ug/L	1.0	1		12/18/15 14:13	3 75-00-3	
Chloroform	ND	ug/L	1.0	1		12/18/15 14:13	3 67-66-3	
Chloromethane	ND	ug/L	4.0	1		12/18/15 14:13	3 74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		12/18/15 14:13	3 95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		12/18/15 14:13	3 106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	4.0	1		12/18/15 14:13	3 96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		12/18/15 14:13		
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		12/18/15 14:13	3 106-93-4	
Dibromomethane	ND	ug/L	4.0	1		12/18/15 14:13	3 74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		12/18/15 14:13	3 95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		12/18/15 14:13	3 541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		12/18/15 14:13	3 106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		12/18/15 14:13		
1,1-Dichloroethane	ND	ug/L	1.0	1		12/18/15 14:13	3 75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		12/18/15 14:13	3 107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		12/18/15 14:13		
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		12/18/15 14:13		
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		12/18/15 14:13		
Dichlorofluoromethane	ND	ug/L	1.0	1		12/18/15 14:13		
1,2-Dichloropropane	ND	ug/L	4.0	1		12/18/15 14:13		
1,3-Dichloropropane	ND	ug/L	1.0	1		12/18/15 14:13		
2,2-Dichloropropane	ND	ug/L	4.0	1		12/18/15 14:13		
1,1-Dichloropropene	ND	ug/L	1.0	1		12/18/15 14:13		
cis-1,3-Dichloropropene	ND	ug/L	4.0	1		12/18/15 14:13		
trans-1,3-Dichloropropene	ND	ug/L	4.0	1		12/18/15 14:13		
Diethyl ether (Ethyl ether)	ND	ug/L	4.0	1		12/18/15 14:13		
Ethylbenzene	ND	ug/L	1.0	1		12/18/15 14:13		
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		12/18/15 14:13		
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		12/18/15 14:13		
p-Isopropyltoluene	ND	ug/L	1.0	1		12/18/15 14:13		
Methylene Chloride	ND	ug/L	4.0	1		12/18/15 14:13		
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		12/18/15 14:13		L3
		uu/ ∟	5.0			12/10/10 17.10	, 100 101	





Project: CrC
Pace Project No.: 10333461

Date: 12/23/2015 04:03 PM

Sample: MW-15	Lab ID: 103	33461010	Collected: 12/14/1	5 15:50	Received: 1	2/15/15 16:38	Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qua
8260B VOC	Analytical Met	hod: EPA 82	260B					
Naphthalene	ND	ug/L	4.0	1		12/18/15 14:1:	3 91-20-3	
n-Propylbenzene	ND	ug/L	1.0	1		12/18/15 14:13	3 103-65-1	
Styrene	ND	ug/L	1.0	1		12/18/15 14:13	3 100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		12/18/15 14:13	3 630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		12/18/15 14:13	3 79-34-5	L3
Tetrachloroethene	194	ug/L	1.0	1		12/18/15 14:13	3 127-18-4	
Tetrahydrofuran	ND	ug/L	10.0	1		12/18/15 14:13	3 109-99-9	
Toluene	ND	ug/L	1.0	1		12/18/15 14:13	3 108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		12/18/15 14:13	3 87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		12/18/15 14:13	3 120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		12/18/15 14:13	3 71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		12/18/15 14:13	3 79-00-5	
Trichloroethene	ND	ug/L	0.40	1		12/18/15 14:13	3 79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		12/18/15 14:13	3 75-69-4	
1,2,3-Trichloropropane	ND	ug/L	4.0	1		12/18/15 14:13	3 96-18-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/L	1.0	1		12/18/15 14:13	3 76-13-1	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1		12/18/15 14:13	3 95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1		12/18/15 14:13	3 108-67-8	
Vinyl chloride	ND	ug/L	0.40	1		12/18/15 14:13	3 75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		12/18/15 14:13	3 1330-20-7	
Surrogates		ŭ						
1,2-Dichloroethane-d4 (S)	105	%.	75-125	1		12/18/15 14:13	3 17060-07-0	
Toluene-d8 (S)	97	%.	75-125	1		12/18/15 14:13	3 2037-26-5	
4-Bromofluorobenzene (S)	106	%.	75-125	1		12/18/15 14:13	3 460-00-4	



ANALYTICAL RESULTS

Project: CrC
Pace Project No.: 10333461

Date: 12/23/2015 04:03 PM

Acetone	Sample: MW-16	Lab ID: 103	33461011	Collected: 12/14/1	5 16:35	Received:	12/15/15 16:38	Matrix: Water	
Acetone ND ug/L 500 25 12/18/15 16:01 67-64-1 Allyl chloride ND ug/L 100 25 12/18/15 16:01 107-05-1 Benzene ND ug/L 25.0 25 12/18/15 16:01 17-05-1 Benzene ND ug/L 25.0 25 12/18/15 16:01 17-05-1 Bermochoromethane ND ug/L 25.0 25 12/18/15 16:01 17-07-15 Bromochoromethane ND ug/L 25.0 25 12/18/15 16:01 7-07-15 Bromochoromethane ND ug/L 25.0 25 12/18/15 16:01 7-27-4 Bromochoromethane ND ug/L 25.0 25 12/18/15 16:01 7-27-4 Bromochoromethane ND ug/L 100 25 12/18/15 16:01 7-27-4 Bromochoromethane ND ug/L 100 25 12/18/15 16:01 7-27-4 Bromomethane ND ug/L 100 25 12/18/15 16:01 7-28-3 L1	Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Ally chloride	8260B VOC	Analytical Met	hod: EPA 82	260B					
Benzene ND	Acetone	ND	ug/L	500	25		12/18/15 16:01	I 67-64-1	
Bromochloromethane	Allyl chloride	ND	ug/L	100	25		12/18/15 16:01	I 107-05-1	
Bromochloromethane	Benzene	ND	ug/L	25.0	25		12/18/15 16:01	71-43-2	
Bromodichloromethane	Bromobenzene	ND	ug/L	25.0	25		12/18/15 16:01	I 108-86-1	
Bromomethane ND ug/L 100 25 12/18/15 16:01 75-25-2 Bromomethane ND ug/L 100 25 12/18/15 16:01 75-25-2 Bromomethane ND ug/L 100 25 12/18/15 16:01 74-83-9 L 1	Bromochloromethane	ND	ug/L	25.0	25		12/18/15 16:01	74-97-5	
Bromomethane	Bromodichloromethane	ND	ug/L	25.0	25		12/18/15 16:01	75-27-4	
Bromomethane ND ug/L 125 25 12/18/15 16:01 74-83-9 24-18/15 16:01 82-8 ug/L 125 25 12/18/15 16:01 78-93-3 L1 n-Burybenzene ND ug/L 25.0 25 12/18/15 16:01 104-51-8 sec-Burybenzene ND ug/L 25.0 25 12/18/15 16:01 104-51-8 sec-Burybenzene ND ug/L 25.0 25 12/18/15 16:01 104-51-8 ug/L 25.0 25 12/18/15 16:01 104-51-8 ug/L 25.0 25 12/18/15 16:01 108-90-7 Carbon tetrachloride ND ug/L 25.0 25 12/18/15 16:01 88-02-5 Chlorobenzene ND ug/L 25.0 25 12/18/15 16:01 108-90-7 Chlorobenzene ND ug/L 25.0 25 12/18/15 16:01 108-90-7 Chlorobenzene ND ug/L 25.0 25 12/18/15 16:01 75-00-3 Chloroform ND ug/L 25.0 25 12/18/15 16:01 75-00-3 Chloroform ND ug/L 25.0 25 12/18/15 16:01 75-00-3 Chloroform ND ug/L 25.0 25 12/18/15 16:01 74-87-3 2-Chlorotoluene ND ug/L 25.0 25 12/18/15 16:01 74-87-3 2-Chlorotoluene ND ug/L 25.0 25 12/18/15 16:01 95-49-8 4-Chlorotoluene ND ug/L 25.0 25 12/18/15 16:01 106-43-4 4-Chlorotoluene ND ug/L 25.0 25 12/18/15 16:01 106-45-7 11-Dichlorotehane ND ug/L 25.0 25 12/18/15 16:01 106-65-7 11-Dichlorotehane ND ug/L 25.0 2	Bromoform	ND	ug/L	100	25		12/18/15 16:01	75-25-2	
n-Butylbenzene ND ug/L 25.0 25 12/18/15 16:01 104-51-8 sec-Butylbenzene ND ug/L 25.0 25 12/18/15 16:01 135-98-8 tert-Butylbenzene ND ug/L 25.0 25 12/18/15 16:01 98-06-6 Carbon tetrachloride ND ug/L 25.0 25 12/18/15 16:01 98-06-6 Carbon tetrachloride ND ug/L 25.0 25 12/18/15 16:01 98-06-6 Carbon tetrachloride ND ug/L 25.0 25 12/18/15 16:01 98-06-6 Carbon tetrachloride ND ug/L 25.0 25 12/18/15 16:01 75-00-3 Chlorocethane ND ug/L 25.0 25 12/18/15 16:01 75-00-3 Chlorocethane ND ug/L 25.0 25 12/18/15 16:01 75-00-3 Chlorocethane ND ug/L 25.0 25 12/18/15 16:01 75-60-3 Chlorocethane ND ug/L 25.0 25 12/18/15 16:01 75-60-3 Chlorocethane ND ug/L 25.0 25 12/18/15 16:01 75-60-3 Chlorocethane ND ug/L 25.0 25 12/18/15 16:01 95-49-8 Chlorocotholuene ND ug/L 25.0 25 12/18/15 16:01 95-49-8 Chlorocholuene ND ug/L 25.0 25 12/18/15 16:01 95-49-8 Chlorocholuene ND ug/L 25.0 25 12/18/15 16:01 96-43-4 Chlorocholuene ND ug/L 25.0 25 12/18/15 16:01 96-43-4 Chlorocholuene ND ug/L 25.0 25 12/18/15 16:01 96-43-4 Chlorocholuene (EDB) ND ug/L 25.0 25 12/18/15 16:01 16-43-4 Chlorocholuene (EDB) ND ug/L 25.0 25 12/18/15 16:01 16-43-4 Chlorocholuene (EDB) ND ug/L 25.0 25 12/18/15 16:01 16-43-4 Chlorocholuene (EDB) ND ug/L 25.0 25 12/18/15 16:01 16-43-4 Chlorocholuene ND ug/L 25.0 25 12/18/15 16:01 16-43	Bromomethane	ND		100	25		12/18/15 16:01	74-83-9	
sec-Bulylbenzene ND ug/L 25.0 25 12/18/15 16:01 35-98-8 tetr-Bulylbenzene ND ug/L 25.0 25 12/18/15 16:01 98-06-6 Carbon tetrachloride ND ug/L 25.0 25 12/18/15 16:01 98-06-6 Carbon tetrachloride ND ug/L 25.0 25 12/18/15 16:01 56-23-5 Chlorobenzene ND ug/L 25.0 25 12/18/15 16:01 75-00-3 Chlorothane ND ug/L 25.0 25 12/18/15 16:01 75-00-3 Chlorothane ND ug/L 25.0 25 12/18/15 16:01 75-00-3 Chlorothane ND ug/L 25.0 25 12/18/15 16:01 76-66-3 Chlorothane ND ug/L 25.0 25 12/18/15 16:01 74-87-3 Chlorothuene ND ug/L 25.0 25 12/18/15 16:01 74-87-3 Chlorothuene ND ug/L 25.0 25 12/18/15 16:01 74-87-3 Chlorothuene ND ug/L 25.0 25 12/18/15 16:01 106-43-4 1.2-Dibromo-3-chloropropane ND ug/L 100 25 12/18/15 16:01 106-43-4 1.2-Dibromo-3-chloropropane ND ug/L 25.0 25 12/18/15 16:01 106-43-4 1.2-Dibromo-thane (EDB) ND ug/L 25.0 25 12/18/15 16:01 106-43-4 1.2-Dibromo-thane (EDB) ND ug/L 25.0 25 12/18/15 16:01 106-93-4 Dibromomethane (EDB) ND ug/L 25.0 25 12/18/15 16:01 106-93-4 Dibromomethane (EDB) ND ug/L 25.0 25 12/18/15 16:01 95-50-1 1.3-Dichlorobenzene ND ug/L 25.0 25 12/18/15 16:01 95-50-1 1.3-Dichlorobenzene ND ug/L 25.0 25 12/18/15 16:01 55-50-1 1.3-Dichlorobenzene ND ug/L 25.0 25 12/18/15 16:01 75-34-3 1.3-Dichlorothane ND ug/L 25.0 25 12/18/15 16:01 75-35-4 13-1-Dichlorothane ND ug/L 25.0 25 12/18/15 16:01 78-87-5 13-Dichlorothane ND ug/L 25.0 25 1	2-Butanone (MEK)	828	ug/L	125	25		12/18/15 16:01	78-93-3	L1
tert-Buylbenzene ND ug/L 25.0 25 12/18/15 16:01 98-06-6 Carbon tetrachloride ND ug/L 25.0 25 12/18/15 16:01 168-90-7 Chlorochane ND ug/L 25.0 25 12/18/15 16:01 108-90-7 Chlorochane ND ug/L 25.0 25 12/18/15 16:01 108-90-7 Chlorochane ND ug/L 25.0 25 12/18/15 16:01 175-00-3 Chlorochane ND ug/L 25.0 25 12/18/15 16:01 75-00-3 Chloromethane ND ug/L 25.0 25 12/18/15 16:01 76-66-3 Chloromethane ND ug/L 25.0 25 12/18/15 16:01 76-66-3 Chloromethane ND ug/L 25.0 25 12/18/15 16:01 76-66-3 Chloromethane ND ug/L 25.0 25 12/18/15 16:01 76-68-3 Chloromethane ND ug/L 25.0 25 12/18/15 16:01 76-49-8 Chlorocholuene ND ug/L 25.0 25 12/18/15 16:01 76-49-8 Chloromethane ND ug/L 25.0 25 12/18/15 16:01 76-49-8 Chloromethane ND ug/L 25.0 25 12/18/15 16:01 76-49-8 Chloromethane (EDB) ND ug/L 25.0 25 12/18/15 16:01 106-93-4 Chloromethane (EDB) ND ug/L 25.0 25 12/18/15 16:01 106-93-4 Chloromethane (EDB) ND ug/L 25.0 25 12/18/15 16:01 106-93-4 Chloromethane ND ug/L 25.0 25 12/18/15 16:01 107-06-2 Chloromethane ND ug/L 25.0 25 12/18/1	n-Butylbenzene	ND	ug/L	25.0	25		12/18/15 16:01	I 104-51-8	
tert-Buylbenzene ND ug/L 25.0 25 12/18/15 16:01 98-06-6 Carbon tetrachloride ND ug/L 25.0 25 12/18/15 16:01 168-90-7 Chlorochane ND ug/L 25.0 25 12/18/15 16:01 108-90-7 Chlorochane ND ug/L 25.0 25 12/18/15 16:01 108-90-7 Chlorochane ND ug/L 25.0 25 12/18/15 16:01 175-00-3 Chlorochane ND ug/L 25.0 25 12/18/15 16:01 75-00-3 Chloromethane ND ug/L 25.0 25 12/18/15 16:01 76-66-3 Chloromethane ND ug/L 25.0 25 12/18/15 16:01 76-66-3 Chloromethane ND ug/L 25.0 25 12/18/15 16:01 76-66-3 Chloromethane ND ug/L 25.0 25 12/18/15 16:01 76-68-3 Chloromethane ND ug/L 25.0 25 12/18/15 16:01 76-49-8 Chlorocholuene ND ug/L 25.0 25 12/18/15 16:01 76-49-8 Chloromethane ND ug/L 25.0 25 12/18/15 16:01 76-49-8 Chloromethane ND ug/L 25.0 25 12/18/15 16:01 76-49-8 Chloromethane (EDB) ND ug/L 25.0 25 12/18/15 16:01 106-93-4 Chloromethane (EDB) ND ug/L 25.0 25 12/18/15 16:01 106-93-4 Chloromethane (EDB) ND ug/L 25.0 25 12/18/15 16:01 106-93-4 Chloromethane ND ug/L 25.0 25 12/18/15 16:01 107-06-2 Chloromethane ND ug/L 25.0 25 12/18/1	sec-Butylbenzene	ND	ug/L	25.0	25		12/18/15 16:01	I 135-98-8	
Carbon tetrachloride ND ug/L 25.0 25 12/18/15 16:01 56-23-5 Chlorobenzene ND ug/L 25.0 25 12/18/15 16:01 108-90-7 Chlorobethane ND ug/L 25.0 25 12/18/15 16:01 75-00-3 Chloroform ND ug/L 25.0 25 12/18/15 16:01 76-66-3 Chlorofoluene ND ug/L 25.0 25 12/18/15 16:01 76-48-8 4-Chlorotoluene ND ug/L 25.0 25 12/18/15 16:01 76-48-8 4-Chlorotoluene ND ug/L 25.0 25 12/18/15 16:01 76-48-8 4-Chlorotoluene ND ug/L 25.0 25 12/18/15 16:01 76-12-8 4-Chlorotoluene ND ug/L 25.0 25 12/18/15 16:01 76-12-8 1-2-Dichlorothane ND ug/L 25.0 25 12/18/15 16:01 76-12-8 1-2-Dichlorotebrane ND ug/L 25.0	tert-Butylbenzene	ND	ug/L	25.0	25		12/18/15 16:01	98-06-6	
Chlorotenhane ND ug/L 25.0 25 12/18/15 16:01 75-00-3 Chloroform ND ug/L 25.0 25 12/18/15 16:01 75-00-3 Chloroform ND ug/L 25.0 25 12/18/15 16:01 76-66-3 Chloroformethane ND ug/L 10.0 25 12/18/15 16:01 78-87-3 2-Chlorotoluene ND ug/L 25.0 25 12/18/15 16:01 95-49-8 4-Chlorotoluene ND ug/L 25.0 25 12/18/15 16:01 95-49-8 4-Chlorotoluene ND ug/L 25.0 25 12/18/15 16:01 95-49-8 4-Chlorotoluene ND ug/L 25.0 25 12/18/15 16:01 95-12-8 Dibromochloromethane ND ug/L 25.0 25 12/18/15 16:01 96-12-8 Dibromochloromethane ND ug/L 25.0 25 12/18/15 16:01 106-93-4 Dibromochloromethane ND ug/L 25.0 25 12/18/15 16:01 106-46-7 Dichlorodifluoromethane ND ug/L 25.0 25 12/18/15 16:01 106-46-7 Dichlorodifluoromethane ND ug/L 25.0 25 12/18/15 16:01 107-06-2 Dichlorothene ND ug/L 25.0 25 12/18/15 16:01 107-06-2 Dichlorothene ND ug/L 25.0 25 12/18/15 16:01 107-06-2 Dichlorothene ND ug/L 25.0 25 12/18/15 16:01 107-06-2 Dichlorothorothene ND ug/L 25.0 25 12/18/15 16:01 156-60-5 Dichlorothoropropane ND ug/L 25.0 25 12/18/15 16:01 156-60-5 Dichlorothoropropane ND ug/L 25.0 25 12/18/15 16:01 156-60-5 Dichloropropane ND ug/L 25.0 25 12/18/15 16:01 100-11-5 Dichloropropane	Carbon tetrachloride	ND		25.0	25		12/18/15 16:01	56-23-5	
Chloroform	Chlorobenzene	ND	ug/L	25.0	25		12/18/15 16:01	1 108-90-7	
Chloroform	Chloroethane	ND	ug/L	25.0	25		12/18/15 16:01	75-00-3	
Chloromethane	Chloroform	ND	ug/L	25.0	25		12/18/15 16:01	l 67-66-3	
2-Chlorotoluene	Chloromethane	ND		100	25		12/18/15 16:01	I 74-87-3	
4-Chlorotoluene ND ug/L 25.0 25 12/18/15 16:01 106-43-4 1,2-Dibromo-3-chloropropane ND ug/L 25.0 25 12/18/15 16:01 196-12-8 ND ug/L 25.0 25 12/18/15 16:01 196-12-8 ND ug/L 25.0 25 12/18/15 16:01 106-93-4 1,2-Dibromochloromethane (EDB) ND ug/L 25.0 25 12/18/15 16:01 106-93-4 1,2-Dibromochloromethane (EDB) ND ug/L 25.0 25 12/18/15 16:01 106-93-4 1,2-Dibromochlane (EDB) ND ug/L 25.0 25 12/18/15 16:01 74-95-3 1,2-Dibromochlane (EDB) ND ug/L 25.0 25 12/18/15 16:01 95-50-1 1,3-Dichlorobenzene ND ug/L 25.0 25 12/18/15 16:01 95-50-1 1,3-Dichlorobenzene ND ug/L 25.0 25 12/18/15 16:01 106-46-7 1,1-Dichlorothlane ND ug/L 25.0 25 12/18/15 16:01 107-06-2 1,1-Dichlorothlane ND ug/L 25.0 25 12/18/15 16:01 156-69-2 12 12 12 12 12 12 12 12 12 12 12 12 12	2-Chlorotoluene	ND		25.0	25		12/18/15 16:01	l 95-49-8	
1,2-Dibromo-3-chloropropane	4-Chlorotoluene	ND	•	25.0	25		12/18/15 16:01	I 106-43-4	
Dibromochloromethane ND	1,2-Dibromo-3-chloropropane	ND	•	100			12/18/15 16:01	I 96-12-8	
1,2-Dibromoethane (EDB) ND	Dibromochloromethane	ND	•	25.0			12/18/15 16:01	I 124-48-1	
Dibromomethane ND	1,2-Dibromoethane (EDB)		-	25.0	25		12/18/15 16:01	I 106-93-4	
1,2-Dichlorobenzene ND ug/L 25.0 25 12/18/15 16:01 95-50-1 1,3-Dichlorobenzene ND ug/L 25.0 25 12/18/15 16:01 541-73-1 1,4-Dichlorobenzene ND ug/L 25.0 25 12/18/15 16:01 106-46-7 Dichlorodifluoromethane ND ug/L 25.0 25 12/18/15 16:01 75-71-8 1,1-Dichloroethane ND ug/L 25.0 25 12/18/15 16:01 75-34-3 1,2-Dichloroethane ND ug/L 25.0 25 12/18/15 16:01 107-06-2 1,1-Dichloroethane ND ug/L 25.0 25 12/18/15 16:01 107-06-2 1,1-Dichloroethane ND ug/L 25.0 25 12/18/15 16:01 107-06-2 1,1-Dichloroethane ND ug/L 25.0 25 12/18/15 16:01 156-59-2 trans-1,2-Dichloroethene ND ug/L 25.0 25 12/18/15 16:01 156-69-9 trans-1,2-Dichloroethene ND ug/L 25.0 25 12/18/15 16:01 156-60-5	. ,	ND		100	25		12/18/15 16:01	I 74-95-3	
1,3-Dichlorobenzene ND ug/L 25.0 25 12/18/15 16:01 541-73-1 1,4-Dichlorobenzene ND ug/L 25.0 25 12/18/15 16:01 106-46-7 Dichlorodifluoromethane ND ug/L 25.0 25 12/18/15 16:01 75-71-8 1,1-Dichloroethane ND ug/L 25.0 25 12/18/15 16:01 75-34-3 1,2-Dichloroethane ND ug/L 25.0 25 12/18/15 16:01 75-34-3 1,1-Dichloroethene ND ug/L 25.0 25 12/18/15 16:01 75-35-4 cis-1,2-Dichloroethene ND ug/L 25.0 25 12/18/15 16:01 156-59-2 trans-1,2-Dichloroethene ND ug/L 25.0 25 12/18/15 16:01 156-69-5 Dichlorofluoromethane ND ug/L 25.0 25 12/18/15 16:01 156-69-5 Dichlorofluoromethane ND ug/L 25.0 25 12/18/15 16:01 75-43-4 1,2-Dichloropropane ND ug/L 25.0 25 12/18/15 16:01 75-88-5	1,2-Dichlorobenzene	ND	•	25.0	25		12/18/15 16:01	I 95-50-1	
1,4-Dichlorobenzene ND ug/L 25.0 25 12/18/15 16:01 106-46-7 Dichlorodifluoromethane ND ug/L 25.0 25 12/18/15 16:01 75-71-8 1,1-Dichloroethane ND ug/L 25.0 25 12/18/15 16:01 75-34-3 1,2-Dichloroethane ND ug/L 25.0 25 12/18/15 16:01 107-06-2 1,1-Dichloroethene ND ug/L 25.0 25 12/18/15 16:01 107-06-2 1,1-Dichloroethene ND ug/L 25.0 25 12/18/15 16:01 156-59-2 trans-1,2-Dichloroethene ND ug/L 25.0 25 12/18/15 16:01 156-69-2 trans-1,2-Dichloroptoethane ND ug/L 25.0 25 12/18/15 16:01 156-69-2 trans-1,2-Dichloropropane ND ug/L 25.0 25 12/18/15 16:01 156-60-5 Dichloropropane ND ug/L 25.0 25 12/18/15 16:01 78-87-5 1,3-Dichloropropane ND ug/L 25.0 25 12/18/15 16:01 59-2-0			•				12/18/15 16:01	I 541-73-1	
Dichlorodifluoromethane	·	ND	•	25.0					
1,1-Dichloroethane ND ug/L 25.0 25 12/18/15 16:01 75-34-3 1,2-Dichloroethane ND ug/L 25.0 25 12/18/15 16:01 107-06-2 1,1-Dichloroethene ND ug/L 25.0 25 12/18/15 16:01 75-35-4 cis-1,2-Dichloroethene ND ug/L 25.0 25 12/18/15 16:01 156-69-2 trans-1,2-Dichloroethene ND ug/L 25.0 25 12/18/15 16:01 156-60-5 Dichlorofluoromethane ND ug/L 25.0 25 12/18/15 16:01 156-60-5 Dichlorofluoromethane ND ug/L 25.0 25 12/18/15 16:01 75-43-4 1,2-Dichloropropane ND ug/L 100 25 12/18/15 16:01 75-43-4 1,3-Dichloropropane ND ug/L 100 25 12/18/15 16:01 75-43-4 1,1-Dichloropropane ND ug/L 25.0 25 12/18/15 16:01 75-43-4 1,1-Dichloropropane ND ug/L 25.0 25 12/18/15 16:01 75-43-4	•								
1,2-Dichloroethane	1,1-Dichloroethane	ND		25.0	25		12/18/15 16:01	75-34-3	
1,1-Dichloroethene ND ug/L 25.0 25 12/18/15 16:01 75-35-4 cis-1,2-Dichloroethene ND ug/L 25.0 25 12/18/15 16:01 156-59-2 trans-1,2-Dichloroethene ND ug/L 25.0 25 12/18/15 16:01 156-60-5 Dichlorofluoromethane ND ug/L 25.0 25 12/18/15 16:01 75-43-4 1,2-Dichloropropane ND ug/L 100 25 12/18/15 16:01 78-87-5 1,3-Dichloropropane ND ug/L 25.0 25 12/18/15 16:01 142-28-9 2,2-Dichloropropane ND ug/L 100 25 12/18/15 16:01 142-28-9 2,2-Dichloropropane ND ug/L 100 25 12/18/15 16:01 594-20-7 1,1-Dichloropropene ND ug/L 25.0 25 12/18/15 16:01 563-58-6 cis-1,3-Dichloropropene ND ug/L 100 25 12/18/15 16:01 10061-01-5 trans-1,3-Dichloropropene ND ug/L 100 25 12/18/15 16:01 10061-02-6 <	1.2-Dichloroethane		•	25.0	25		12/18/15 16:01	107-06-2	
cis-1,2-Dichloroethene ND ug/L 25.0 25 12/18/15 16:01 156-59-2 trans-1,2-Dichloroethene ND ug/L 25.0 25 12/18/15 16:01 156-60-5 Dichlorofluoromethane ND ug/L 25.0 25 12/18/15 16:01 75-43-4 1,2-Dichloropropane ND ug/L 25.0 25 12/18/15 16:01 78-87-5 1,3-Dichloropropane ND ug/L 25.0 25 12/18/15 16:01 142-28-9 2,2-Dichloropropane ND ug/L 100 25 12/18/15 16:01 594-20-7 1,1-Dichloropropane ND ug/L 25.0 25 12/18/15 16:01 594-20-7 1,1-Dichloropropene ND ug/L 25.0 25 12/18/15 16:01 563-58-6 cis-1,3-Dichloropropene ND ug/L 100 25 12/18/15 16:01 10061-01-5 trans-1,3-Dichloropropene ND ug/L 100 25 12/18/15 16:01 10061-02-6 Diethyl ether (Ethyl ether) ND ug/L 100 25 12/18/15 16:01 10061-02-6 Diethyl ether (Ethyl ether) ND ug/L 25.0 25 12/18/15 16:01 100-41-4 Hexachloro-1,3-butadiene ND ug/L 25.0 25 12/18/15 16:01 87-68-3 Isopropylbenzene (Cumene) ND ug/L 25.0 25 12/18/15 16:01 98-82-8 p-Isopropyltoluene ND ug/L 25.0 25 12/18/15 16:01 99-87-6 Methyl-2-pentanone (MIBK) ND ug/L 100 25 12/18/15 16:01 108-10-1 L3			•						
trans-1,2-Dichloroethene ND ug/L 25.0 25 12/18/15 16:01 156-60-5 Dichlorofluoromethane ND ug/L 25.0 25 12/18/15 16:01 75-43-4 1,2-Dichloropropane ND ug/L 100 25 12/18/15 16:01 78-87-5 1,3-Dichloropropane ND ug/L 25.0 25 12/18/15 16:01 142-28-9 2,2-Dichloropropane ND ug/L 25.0 25 12/18/15 16:01 594-20-7 1,1-Dichloropropane ND ug/L 25.0 25 12/18/15 16:01 594-20-7 1,1-Dichloropropane ND ug/L 25.0 25 12/18/15 16:01 563-58-6 cis-1,3-Dichloropropene ND ug/L 100 25 12/18/15 16:01 10061-01-5 trans-1,3-Dichloropropene ND ug/L 100 25 12/18/15 16:01 10061-02-6 Diethyl ether (Ethyl ether) ND ug/L 100 25 12/18/15 16:01 10061-02-6 Diethyl ether (Ethyl ether) ND ug/L 25.0 25 12/18/15 16:01 100-41-4 Hexachloro-1,3-butadiene ND ug/L 25.0 25 12/18/15 16:01 87-68-3 Isopropylbenzene (Cumene) ND ug/L 25.0 25 12/18/15 16:01 98-82-8 p-Isopropyltoluene ND ug/L 25.0 25 12/18/15 16:01 99-87-6 Methylene Chloride ND ug/L 100 25 12/18/15 16:01 75-09-2 4-Methyl-2-pentanone (MIBK) ND ug/L 125 25 12/18/15 16:01 108-10-1 L3			•						
Dichlorofluoromethane ND ug/L 25.0 25 12/18/15 16:01 75-43-4 1,2-Dichloropropane ND ug/L 100 25 12/18/15 16:01 78-87-5 1,3-Dichloropropane ND ug/L 25.0 25 12/18/15 16:01 142-28-9 2,2-Dichloropropane ND ug/L 100 25 12/18/15 16:01 594-20-7 1,1-Dichloropropene ND ug/L 25.0 25 12/18/15 16:01 594-20-7 1,1-Dichloropropene ND ug/L 100 25 12/18/15 16:01 594-20-7 1,1-Dichloropropene ND ug/L 100 25 12/18/15 16:01 506-58-6 cis-1,3-Dichloropropene ND ug/L 100 25 12/18/15 16:01 10061-01-5 trans-1,3-Dichloropropene ND ug/L 100 25 12/18/15 16:01 10061-02-6 Diethyl ether (Ethyl ether) ND ug/L 25.0 25 12/18/15 16:01 100-41-4 Hexachloro-1,3-butadiene <td>•</td> <td></td> <td>-</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	•		-						
1,2-Dichloropropane									
1,3-Dichloropropane ND ug/L 25.0 25 12/18/15 16:01 142-28-9 2,2-Dichloropropane ND ug/L 100 25 12/18/15 16:01 594-20-7 1,1-Dichloropropene ND ug/L 25.0 25 12/18/15 16:01 563-58-6 cis-1,3-Dichloropropene ND ug/L 100 25 12/18/15 16:01 10061-01-5 trans-1,3-Dichloropropene ND ug/L 100 25 12/18/15 16:01 10061-02-6 Diethyl ether (Ethyl ether) ND ug/L 100 25 12/18/15 16:01 10061-02-6 Ethylbenzene ND ug/L 25.0 25 12/18/15 16:01 100-41-4 Hexachloro-1,3-butadiene ND ug/L 25.0 25 12/18/15 16:01 87-68-3 Isopropylbenzene (Cumene) ND ug/L 25.0 25 12/18/15 16:01 98-82-8 p-Isopropyltoluene ND ug/L 25.0 25 12/18/15 16:01 75-09-2 4-Methyl-2-pentanone (MIBK) ND ug/L 125 25 12/18/15 16:01 108-10-			•						
2,2-Dichloropropane ND ug/L 100 25 12/18/15 16:01 594-20-7 1,1-Dichloropropene ND ug/L 25.0 25 12/18/15 16:01 563-58-6 cis-1,3-Dichloropropene ND ug/L 100 25 12/18/15 16:01 10061-01-5 trans-1,3-Dichloropropene ND ug/L 100 25 12/18/15 16:01 10061-02-6 Diethyl ether (Ethyl ether) ND ug/L 100 25 12/18/15 16:01 10061-02-6 Diethyl ether (Ethyl ether) ND ug/L 25.0 25 12/18/15 16:01 100-41-4 Hexachloro-1,3-butadiene ND ug/L 25.0 25 12/18/15 16:01 87-68-3 Isopropylbenzene (Cumene) ND ug/L 25.0 25 12/18/15 16:01 98-82-8 p-Isopropyltoluene ND ug/L 25.0 25 12/18/15 16:01 99-87-6 Methylene Chloride ND ug/L 100 25 12/18/15 16:01 75-09-2 4-Methyl-2-pentanone (MIBK) ND ug/L 125 25 12/18/15 16:01 108-10-1 L3	· ·		•						
1,1-Dichloropropene ND ug/L 25.0 25 12/18/15 16:01 563-58-6 cis-1,3-Dichloropropene ND ug/L 100 25 12/18/15 16:01 10061-01-5 trans-1,3-Dichloropropene ND ug/L 100 25 12/18/15 16:01 10061-02-6 Diethyl ether (Ethyl ether) ND ug/L 100 25 12/18/15 16:01 60-29-7 Ethylbenzene ND ug/L 25.0 25 12/18/15 16:01 100-41-4 Hexachloro-1,3-butadiene ND ug/L 25.0 25 12/18/15 16:01 87-68-3 Isopropylbenzene (Cumene) ND ug/L 25.0 25 12/18/15 16:01 98-82-8 p-Isopropyltoluene ND ug/L 25.0 25 12/18/15 16:01 99-87-6 Methylene Chloride ND ug/L 100 25 12/18/15 16:01 75-09-2 4-Methyl-2-pentanone (MIBK) ND ug/L 125 25 12/18/15 16:01 108-10-1 L3	• •		-						
cis-1,3-Dichloropropene ND ug/L 100 25 12/18/15 16:01 10061-01-5 trans-1,3-Dichloropropene ND ug/L 100 25 12/18/15 16:01 10061-02-6 Diethyl ether (Ethyl ether) ND ug/L 100 25 12/18/15 16:01 60-29-7 Ethylbenzene ND ug/L 25.0 25 12/18/15 16:01 100-41-4 Hexachloro-1,3-butadiene ND ug/L 25.0 25 12/18/15 16:01 87-68-3 Isopropylbenzene (Cumene) ND ug/L 25.0 25 12/18/15 16:01 98-82-8 p-Isopropyltoluene ND ug/L 25.0 25 12/18/15 16:01 99-87-6 Methylene Chloride ND ug/L 100 25 12/18/15 16:01 75-09-2 4-Methyl-2-pentanone (MIBK) ND ug/L 125 25 12/18/15 16:01 108-10-1 L3									
trans-1,3-Dichloropropene ND ug/L 100 25 12/18/15 16:01 10061-02-6 Diethyl ether (Ethyl ether) ND ug/L 100 25 12/18/15 16:01 60-29-7 Ethylbenzene ND ug/L 25.0 25 12/18/15 16:01 100-41-4 Hexachloro-1,3-butadiene ND ug/L 25.0 25 12/18/15 16:01 87-68-3 Isopropylbenzene (Cumene) ND ug/L 25.0 25 12/18/15 16:01 98-82-8 p-Isopropyltoluene ND ug/L 25.0 25 12/18/15 16:01 99-87-6 Methylene Chloride ND ug/L 100 25 12/18/15 16:01 75-09-2 4-Methyl-2-pentanone (MIBK) ND ug/L 125 25 12/18/15 16:01 108-10-1 L3			-						
Diethyl ether (Ethyl ether) ND ug/L 100 25 12/18/15 16:01 60-29-7 Ethylbenzene ND ug/L 25.0 25 12/18/15 16:01 100-41-4 Hexachloro-1,3-butadiene ND ug/L 25.0 25 12/18/15 16:01 87-68-3 Isopropylbenzene (Cumene) ND ug/L 25.0 25 12/18/15 16:01 98-82-8 p-Isopropyltoluene ND ug/L 25.0 25 12/18/15 16:01 99-87-6 Methylene Chloride ND ug/L 100 25 12/18/15 16:01 75-09-2 4-Methyl-2-pentanone (MIBK) ND ug/L 125 25 12/18/15 16:01 108-10-1 L3									
Ethylbenzene ND ug/L 25.0 25 12/18/15 16:01 100-41-4 Hexachloro-1,3-butadiene ND ug/L 25.0 25 12/18/15 16:01 87-68-3 Isopropylbenzene (Cumene) ND ug/L 25.0 25 12/18/15 16:01 98-82-8 p-Isopropyltoluene ND ug/L 25.0 25 12/18/15 16:01 99-87-6 Methylene Chloride ND ug/L 100 25 12/18/15 16:01 75-09-2 4-Methyl-2-pentanone (MIBK) ND ug/L 125 25 12/18/15 16:01 108-10-1 L3			•						
Hexachloro-1,3-butadiene ND ug/L 25.0 25 12/18/15 16:01 87-68-3 Isopropylbenzene (Cumene) ND ug/L 25.0 25 12/18/15 16:01 98-82-8 p-Isopropyltoluene ND ug/L 25.0 25 12/18/15 16:01 99-87-6 Methylene Chloride ND ug/L 100 25 12/18/15 16:01 75-09-2 4-Methyl-2-pentanone (MIBK) ND ug/L 125 25 12/18/15 16:01 108-10-1 L3	, , ,		•						
Sopropylbenzene (Cumene)	•		-						
p-Isopropyltoluene ND ug/L 25.0 25 12/18/15 16:01 99-87-6 Methylene Chloride ND ug/L 100 25 12/18/15 16:01 75-09-2 4-Methyl-2-pentanone (MIBK) ND ug/L 125 25 12/18/15 16:01 108-10-1 L3	•								
Methylene Chloride ND ug/L 100 25 12/18/15 16:01 75-09-2 4-Methyl-2-pentanone (MIBK) ND ug/L 125 25 12/18/15 16:01 108-10-1 L3									
4-Methyl-2-pentanone (MIBK) ND ug/L 125 25 12/18/15 16:01 108-10-1 L3			•						
			•						13
Methyl-tert-butyl ether ND ug/L 25.0 25 12/18/15 16:01 1634-04-4	Methyl-tert-butyl ether	ND ND	ug/L ug/L	25.0	25 25				LJ

REPORT OF LABORATORY ANALYSIS

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Project: CrC
Pace Project No.: 10333461

Date: 12/23/2015 04:03 PM

Sample: MW-16	Lab ID: 103	33461011	Collected: 12/14/1	15 16:35	Received: 1	2/15/15 16:38 M	/latrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260B VOC	Analytical Meth	nod: EPA 82	260B					
Naphthalene	ND	ug/L	100	25		12/18/15 16:01	91-20-3	
n-Propylbenzene	ND	ug/L	25.0	25		12/18/15 16:01	103-65-1	
Styrene	ND	ug/L	25.0	25		12/18/15 16:01	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	25.0	25		12/18/15 16:01	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	25.0	25		12/18/15 16:01	79-34-5	L3
Tetrachloroethene	1490	ug/L	25.0	25		12/18/15 16:01	127-18-4	
Tetrahydrofuran	ND	ug/L	250	25		12/18/15 16:01	109-99-9	
Toluene	ND	ug/L	25.0	25		12/18/15 16:01	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	25.0	25		12/18/15 16:01	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	25.0	25		12/18/15 16:01	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	25.0	25		12/18/15 16:01	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	25.0	25		12/18/15 16:01	79-00-5	
Trichloroethene	ND	ug/L	10.0	25		12/18/15 16:01	79-01-6	
Trichlorofluoromethane	ND	ug/L	25.0	25		12/18/15 16:01	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	100	25		12/18/15 16:01	96-18-4	
1,1,2-Trichlorotrifluoroethane	150	ug/L	25.0	25		12/18/15 16:01	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/L	25.0	25		12/18/15 16:01	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	25.0	25		12/18/15 16:01	108-67-8	
Vinyl chloride	ND	ug/L	10.0	25		12/18/15 16:01	75-01-4	
Xylene (Total)	ND	ug/L	75.0	25		12/18/15 16:01	1330-20-7	
Surrogates		-						
1,2-Dichloroethane-d4 (S)	99	%.	75-125	25		12/18/15 16:01	17060-07-0	
Toluene-d8 (S)	97	%.	75-125	25		12/18/15 16:01	2037-26-5	
4-Bromofluorobenzene (S)	101	%.	75-125	25		12/18/15 16:01	460-00-4	



ANALYTICAL RESULTS

Project: CrC
Pace Project No.: 10333461

Date: 12/23/2015 04:03 PM

Sample: MW-17	Lab ID: 103	33461012	Collected: 12/14/1	5 11:30	Received:	12/15/15 16:38	Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260B VOC	Analytical Met	nod: EPA 82	260B					
Acetone	ND	ug/L	100	5		12/18/15 15:15	67-64-1	
Allyl chloride	ND	ug/L	20.0	5		12/18/15 15:15	5 107-05-1	
Benzene	ND	ug/L	5.0	5		12/18/15 15:15	71-43-2	
Bromobenzene	ND	ug/L	5.0	5		12/18/15 15:15	5 108-86-1	
Bromochloromethane	ND	ug/L	5.0	5		12/18/15 15:15	5 74-97-5	
Bromodichloromethane	ND	ug/L	5.0	5		12/18/15 15:15	5 75-27-4	
Bromoform	ND	ug/L	20.0	5		12/18/15 15:15	5 75-25-2	
Bromomethane	ND	ug/L	20.0	5		12/18/15 15:15	74-83-9	
2-Butanone (MEK)	ND	ug/L	25.0	5		12/18/15 15:15	78-93-3	L3
n-Butylbenzene	ND	ug/L	5.0	5		12/18/15 15:15	5 104-51-8	
sec-Butylbenzene	ND	ug/L	5.0	5		12/18/15 15:15		
tert-Butylbenzene	ND	ug/L	5.0	5		12/18/15 15:15		
Carbon tetrachloride	ND	ug/L	5.0	5		12/18/15 15:15		
Chlorobenzene	ND	ug/L	5.0	5		12/18/15 15:15		
Chloroethane	ND	ug/L	5.0	5		12/18/15 15:15		
Chloroform	ND	ug/L	5.0	5		12/18/15 15:15		
Chloromethane	ND	ug/L	20.0	5		12/18/15 15:15		
2-Chlorotoluene	ND	ug/L	5.0	5		12/18/15 15:15		
4-Chlorotoluene	ND ND	ug/L	5.0	5		12/18/15 15:15		
	ND ND	•	20.0	5		12/18/15 15:15		
1,2-Dibromo-3-chloropropane Dibromochloromethane	ND ND	ug/L	5.0	5 5		12/18/15 15:15		
	ND ND	ug/L	5.0	5 5		12/18/15 15:15	_	
1,2-Dibromoethane (EDB) Dibromomethane	ND ND	ug/L	20.0	5 5		12/18/15 15:15		
		ug/L						
1,2-Dichlorobenzene	ND	ug/L	5.0	5		12/18/15 15:15		
1,3-Dichlorobenzene	ND	ug/L	5.0	5		12/18/15 15:15		
1,4-Dichlorobenzene	ND	ug/L	5.0	5		12/18/15 15:15		
Dichlorodifluoromethane	ND	ug/L	5.0	5		12/18/15 15:15		
1,1-Dichloroethane	ND	ug/L	5.0	5		12/18/15 15:15		
1,2-Dichloroethane	ND	ug/L	5.0	5		12/18/15 15:15		
1,1-Dichloroethene	ND	ug/L	5.0	5		12/18/15 15:15		
cis-1,2-Dichloroethene	ND	ug/L	5.0	5		12/18/15 15:15		
trans-1,2-Dichloroethene	ND	ug/L	5.0	5		12/18/15 15:15		
Dichlorofluoromethane	ND	ug/L	5.0	5		12/18/15 15:15		
1,2-Dichloropropane	ND	ug/L	20.0	5		12/18/15 15:15		
1,3-Dichloropropane	ND	ug/L	5.0	5		12/18/15 15:15		
2,2-Dichloropropane	ND	ug/L	20.0	5		12/18/15 15:15		
1,1-Dichloropropene	ND	ug/L	5.0	5		12/18/15 15:15		
cis-1,3-Dichloropropene	ND	ug/L	20.0	5		12/18/15 15:15		
trans-1,3-Dichloropropene	ND	ug/L	20.0	5		12/18/15 15:15	5 10061-02-6	
Diethyl ether (Ethyl ether)	ND	ug/L	20.0	5		12/18/15 15:15	60-29-7	
Ethylbenzene	ND	ug/L	5.0	5		12/18/15 15:15	5 100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	5.0	5		12/18/15 15:15	5 87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	5.0	5		12/18/15 15:15	5 98-82-8	
p-Isopropyltoluene	ND	ug/L	5.0	5		12/18/15 15:15	5 99-87-6	
Methylene Chloride	ND	ug/L	20.0	5		12/18/15 15:15	5 75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	25.0	5		12/18/15 15:15	5 108-10-1	L3
Methyl-tert-butyl ether	ND	ug/L	5.0	5		12/18/15 15:15		

REPORT OF LABORATORY ANALYSIS

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Project: CrC
Pace Project No.: 10333461

Date: 12/23/2015 04:03 PM

Sample: MW-17	Lab ID: 103	33461012	Collected: 12/14/1	5 11:30	Received:	12/15/15 16:38	Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qua
8260B VOC	Analytical Meth	nod: EPA 82	260B					
Naphthalene	ND	ug/L	20.0	5		12/18/15 15:15	5 91-20-3	
n-Propylbenzene	ND	ug/L	5.0	5		12/18/15 15:15	5 103-65-1	
Styrene	ND	ug/L	5.0	5		12/18/15 15:15	5 100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	5		12/18/15 15:15	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	5		12/18/15 15:15	79-34-5	L3
Tetrachloroethene	1010	ug/L	10.0	10		12/22/15 13:36	5 127-18-4	
Tetrahydrofuran	ND	ug/L	50.0	5		12/18/15 15:15	5 109-99-9	
Toluene	ND	ug/L	5.0	5		12/18/15 15:15	5 108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	5.0	5		12/18/15 15:15	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	5		12/18/15 15:15	5 120-82-1	
1,1,1-Trichloroethane	ND	ug/L	5.0	5		12/18/15 15:15	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	5		12/18/15 15:15	5 79-00-5	
Trichloroethene	ND	ug/L	2.0	5		12/18/15 15:15	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	5		12/18/15 15:15	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	20.0	5		12/18/15 15:15	5 96-18-4	
1,1,2-Trichlorotrifluoroethane	37.6	ug/L	5.0	5		12/18/15 15:15	5 76-13-1	
1,2,4-Trimethylbenzene	ND	ug/L	5.0	5		12/18/15 15:15	5 95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	5.0	5		12/18/15 15:15	5 108-67-8	
Vinyl chloride	ND	ug/L	2.0	5		12/18/15 15:15	5 75-01-4	
Xylene (Total)	ND	ug/L	15.0	5		12/18/15 15:15	5 1330-20-7	
Surrogates		-						
1,2-Dichloroethane-d4 (S)	101	%.	75-125	5		12/18/15 15:15	17060-07-0	
Toluene-d8 (S)	97	%.	75-125	5		12/18/15 15:15	2037-26-5	
4-Bromofluorobenzene (S)	103	%.	75-125	5		12/18/15 15:15	5 460-00-4	





Project: CrC Pace Project No.: 10333461

Date: 12/23/2015 04:03 PM

Sample: MW-18	Lab ID: 103	33461013	Collected: 12/14/1	5 11:45	Received:	12/15/15 16:38	Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qua
8260B VOC	Analytical Met	hod: EPA 82	260B					
Acetone	ND	ug/L	20.0	1		12/18/15 14:2	8 67-64-1	
Allyl chloride	ND	ug/L	4.0	1		12/18/15 14:2	8 107-05-1	
Benzene	ND	ug/L	1.0	1		12/18/15 14:2	8 71-43-2	
Bromobenzene	ND	ug/L	1.0	1		12/18/15 14:2	8 108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		12/18/15 14:2	8 74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		12/18/15 14:2	8 75-27-4	
Bromoform	ND	ug/L	4.0	1		12/18/15 14:2	8 75-25-2	
Bromomethane	ND	ug/L	4.0	1		12/18/15 14:2	8 74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	1		12/18/15 14:2	8 78-93-3	L3
n-Butylbenzene	ND	ug/L	1.0	1		12/18/15 14:2	8 104-51-8	
sec-Butylbenzene	ND	ug/L	1.0	1		12/18/15 14:2	8 135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	1		12/18/15 14:2	8 98-06-6	
Carbon tetrachloride	ND	ug/L	1.0	1		12/18/15 14:2	8 56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		12/18/15 14:2	8 108-90-7	
Chloroethane	ND	ug/L	1.0	1		12/18/15 14:2		
Chloroform	ND	ug/L	1.0	1		12/18/15 14:2		
Chloromethane	ND	ug/L	4.0	1		12/18/15 14:2		
2-Chlorotoluene	ND	ug/L	1.0	1		12/18/15 14:2		
4-Chlorotoluene	ND	ug/L	1.0	1		12/18/15 14:2		
1,2-Dibromo-3-chloropropane	ND	ug/L	4.0	1		12/18/15 14:2		
Dibromochloromethane	ND	ug/L	1.0	1		12/18/15 14:2		
1,2-Dibromoethane (EDB)	ND ND	ug/L	1.0	1		12/18/15 14:2	-	
Dibromomethane	ND ND	ug/L	4.0	1		12/18/15 14:2		
1,2-Dichlorobenzene	ND ND	ug/L	1.0	1		12/18/15 14:2		
·	ND	-	1.0	1		12/18/15 14:2		
1,3-Dichlorobenzene		ug/L		1				
1,4-Dichlorobenzene Dichlorodifluoromethane	ND ND	ug/L	1.0 1.0	1		12/18/15 14:2 12/18/15 14:2		
1,1-Dichloroethane	ND ND	ug/L	1.0	1		12/18/15 14:2		
•		ug/L		1				
1,2-Dichloroethane	ND	ug/L	1.0			12/18/15 14:2		
1,1-Dichloroethene	ND	ug/L	1.0	1		12/18/15 14:2		
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		12/18/15 14:2		
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		12/18/15 14:2		
Dichlorofluoromethane	ND	ug/L	1.0	1		12/18/15 14:2		
1,2-Dichloropropane	ND	ug/L	4.0	1		12/18/15 14:2		
1,3-Dichloropropane	ND	ug/L	1.0	1		12/18/15 14:2		
2,2-Dichloropropane	ND	ug/L	4.0	1		12/18/15 14:2		
1,1-Dichloropropene	ND	ug/L	1.0	1		12/18/15 14:2		
cis-1,3-Dichloropropene	ND	ug/L	4.0	1			8 10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	4.0	1			8 10061-02-6	
Diethyl ether (Ethyl ether)	ND	ug/L	4.0	1		12/18/15 14:2		
Ethylbenzene	ND	ug/L	1.0	1		12/18/15 14:2		
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		12/18/15 14:2		
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		12/18/15 14:2		
p-Isopropyltoluene	ND	ug/L	1.0	1		12/18/15 14:2	8 99-87-6	
Methylene Chloride	ND	ug/L	4.0	1		12/18/15 14:2	8 75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		12/18/15 14:2	8 108-10-1	L3
Methyl-tert-butyl ether	ND	ug/L	1.0	1		12/18/15 14:2	8 1634-04-4	





Project: CrC
Pace Project No.: 10333461

Date: 12/23/2015 04:03 PM

Sample: MW-18	Lab ID: 103	33461013	Collected: 12/14/1	5 11:45	Received: 12	2/15/15 16:38 N	/latrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260B VOC	Analytical Meth	nod: EPA 82	260B					
Naphthalene	ND	ug/L	4.0	1		12/18/15 14:28	91-20-3	
n-Propylbenzene	ND	ug/L	1.0	1		12/18/15 14:28	103-65-1	
Styrene	ND	ug/L	1.0	1		12/18/15 14:28	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		12/18/15 14:28	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		12/18/15 14:28	79-34-5	L3
Tetrachloroethene	952	ug/L	10.0	10		12/22/15 13:51	127-18-4	
Tetrahydrofuran	ND	ug/L	10.0	1		12/18/15 14:28	109-99-9	
Toluene	ND	ug/L	1.0	1		12/18/15 14:28	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		12/18/15 14:28	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		12/18/15 14:28	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		12/18/15 14:28	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		12/18/15 14:28	79-00-5	
Trichloroethene	1.1	ug/L	0.40	1		12/18/15 14:28	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		12/18/15 14:28	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	4.0	1		12/18/15 14:28	96-18-4	
1,1,2-Trichlorotrifluoroethane	6.3	ug/L	1.0	1		12/18/15 14:28	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1		12/18/15 14:28	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1		12/18/15 14:28	108-67-8	
Vinyl chloride	ND	ug/L	0.40	1		12/18/15 14:28	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		12/18/15 14:28	1330-20-7	
Surrogates 1,2-Dichloroethane-d4 (S)	105	%.	75-125	1		12/18/15 14:28	17060-07-0	
Toluene-d8 (S)	97	%.	75-125	1		12/18/15 14:28	2037-26-5	
4-Bromofluorobenzene (S)	106	%.	75-125	1		12/18/15 14:28	460-00-4	



ANALYTICAL RESULTS

Project: CrC
Pace Project No.: 10333461

Date: 12/23/2015 04:03 PM

Sample: MW-19	Lab ID: 103	33461014	Collected: 12/14/1	15 14:45	Received:	12/15/15 16:38 N	Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260B VOC	Analytical Met	hod: EPA 82	260B					
Acetone	ND	ug/L	20.0	1		12/22/15 12:35	67-64-1	
Allyl chloride	ND	ug/L	4.0	1		12/22/15 12:35	107-05-1	
Benzene	ND	ug/L	1.0	1		12/22/15 12:35	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		12/22/15 12:35	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		12/22/15 12:35	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		12/22/15 12:35	75-27-4	
Bromoform	ND	ug/L	4.0	1		12/22/15 12:35	75-25-2	
Bromomethane	ND	ug/L	4.0	1		12/22/15 12:35	74-83-9	CL
2-Butanone (MEK)	ND	ug/L	5.0	1		12/22/15 12:35	78-93-3	
n-Butylbenzene	ND	ug/L	1.0	1		12/22/15 12:35	104-51-8	
sec-Butylbenzene	ND	ug/L	1.0	1		12/22/15 12:35	135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	1		12/22/15 12:35	98-06-6	
Carbon tetrachloride	ND	ug/L	1.0	1		12/22/15 12:35	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		12/22/15 12:35	108-90-7	
Chloroethane	ND	ug/L	1.0	1		12/22/15 12:35	75-00-3	
Chloroform	ND	ug/L	1.0	1		12/22/15 12:35	67-66-3	
Chloromethane	ND	ug/L	4.0	1		12/22/15 12:35	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		12/22/15 12:35	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		12/22/15 12:35	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	4.0	1		12/22/15 12:35	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		12/22/15 12:35		
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		12/22/15 12:35		
Dibromomethane	ND	ug/L	4.0	1		12/22/15 12:35		
1,2-Dichlorobenzene	ND	ug/L	1.0	1		12/22/15 12:35		
1,3-Dichlorobenzene	ND	ug/L	1.0	1		12/22/15 12:35		
1,4-Dichlorobenzene	ND	ug/L	1.0	1		12/22/15 12:35		
Dichlorodifluoromethane	ND	ug/L	1.0	1		12/22/15 12:35		
1,1-Dichloroethane	ND	ug/L	1.0	1		12/22/15 12:35		
1,2-Dichloroethane	ND	ug/L	1.0	1		12/22/15 12:35		
1,1-Dichloroethene	ND	ug/L	1.0	1		12/22/15 12:35		
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		12/22/15 12:35		
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		12/22/15 12:35		
Dichlorofluoromethane	ND	ug/L	1.0	1		12/22/15 12:35		
1,2-Dichloropropane	ND	ug/L	4.0	1		12/22/15 12:35		
1,3-Dichloropropane	ND	ug/L	1.0	1		12/22/15 12:35		
2,2-Dichloropropane	ND	ug/L	4.0	1		12/22/15 12:35		
1,1-Dichloropropene	ND	ug/L	1.0	1		12/22/15 12:35		
cis-1,3-Dichloropropene	ND	ug/L	4.0	1		12/22/15 12:35		
trans-1,3-Dichloropropene	ND	ug/L	4.0	1		12/22/15 12:35		
Diethyl ether (Ethyl ether)	ND	ug/L	4.0	1		12/22/15 12:35		
Ethylbenzene	ND	ug/L	1.0	1		12/22/15 12:35		
Hexachloro-1,3-butadiene	ND ND	ug/L ug/L	1.0	1		12/22/15 12:35		
Isopropylbenzene (Cumene)	ND ND	ug/L ug/L	1.0	1		12/22/15 12:35		
p-Isopropyltoluene	ND ND	ug/L ug/L	1.0	1		12/22/15 12:35		
	ND ND	-	4.0	1		12/22/15 12:35		
Methylene Chloride		ug/L						
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		12/22/15 12:35		
Methyl-tert-butyl ether	ND	ug/L	1.0	1		12/22/15 12:35	1034-04-4	





Project: CrC
Pace Project No.: 10333461

Date: 12/23/2015 04:03 PM

Sample: MW-19	Lab ID: 103	33461014	Collected: 12/14/1	15 14:45	Received: 12	2/15/15 16:38 N	Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qua
8260B VOC	Analytical Meth	nod: EPA 82	260B					
Naphthalene	ND	ug/L	4.0	1		12/22/15 12:35	91-20-3	
n-Propylbenzene	ND	ug/L	1.0	1		12/22/15 12:35	103-65-1	
Styrene	ND	ug/L	1.0	1		12/22/15 12:35	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		12/22/15 12:35	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		12/22/15 12:35	79-34-5	
Tetrachloroethene	139	ug/L	1.0	1		12/22/15 12:35	127-18-4	
Tetrahydrofuran	ND	ug/L	10.0	1		12/22/15 12:35	109-99-9	
Toluene	ND	ug/L	1.0	1		12/22/15 12:35	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		12/22/15 12:35	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		12/22/15 12:35	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		12/22/15 12:35	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		12/22/15 12:35	79-00-5	
Trichloroethene	ND	ug/L	0.40	1		12/22/15 12:35	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		12/22/15 12:35	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	4.0	1		12/22/15 12:35	96-18-4	
1,1,2-Trichlorotrifluoroethane	5.3	ug/L	1.0	1		12/22/15 12:35	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1		12/22/15 12:35	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1		12/22/15 12:35	108-67-8	
Vinyl chloride	ND	ug/L	0.40	1		12/22/15 12:35	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		12/22/15 12:35	1330-20-7	
Surrogates								
1,2-Dichloroethane-d4 (S)	94	%.	75-125	1		12/22/15 12:35		
Toluene-d8 (S)	94	%.	75-125	1		12/22/15 12:35		
4-Bromofluorobenzene (S)	100	%.	75-125	1		12/22/15 12:35	460-00-4	



ANALYTICAL RESULTS

Project: CrC
Pace Project No.: 10333461

Date: 12/23/2015 04:03 PM

Sample: MW-20	Lab ID: 103	33461015	Collected: 12/14/1	15 15:25	Received:	12/15/15 16:38	Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qua
3260B VOC	Analytical Met	hod: EPA 82	260B					
Acetone	ND	ug/L	20.0	1		12/22/15 12:50	0 67-64-1	
Allyl chloride	ND	ug/L	4.0	1		12/22/15 12:50	107-05-1	
Benzene	ND	ug/L	1.0	1		12/22/15 12:50	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		12/22/15 12:50	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		12/22/15 12:50	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		12/22/15 12:50	75-27-4	
Bromoform	ND	ug/L	4.0	1		12/22/15 12:50	75-25-2	
Bromomethane	ND	ug/L	4.0	1		12/22/15 12:50	74-83-9	CL
2-Butanone (MEK)	ND	ug/L	5.0	1		12/22/15 12:50	78-93-3	
n-Butylbenzene	ND	ug/L	1.0	1		12/22/15 12:50	104-51-8	
sec-Butylbenzene	ND	ug/L	1.0	1		12/22/15 12:50	135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	1		12/22/15 12:50		
Carbon tetrachloride	ND	ug/L	1.0	1		12/22/15 12:50		
Chlorobenzene	ND	ug/L	1.0	1		12/22/15 12:50		
Chloroethane	ND	ug/L	1.0	1		12/22/15 12:50		
Chloroform	ND	ug/L	1.0	1		12/22/15 12:50		
Chloromethane	ND	ug/L	4.0	1		12/22/15 12:50		
2-Chlorotoluene	ND	ug/L	1.0	1		12/22/15 12:50		
4-Chlorotoluene	ND ND	ug/L	1.0	1		12/22/15 12:50		
1,2-Dibromo-3-chloropropane	ND ND	ug/L ug/L	4.0	1		12/22/15 12:50		
Dibromochloromethane	ND ND	-		1		12/22/15 12:50		
	ND ND	ug/L	1.0 1.0	1		12/22/15 12:50	_	
1,2-Dibromoethane (EDB) Dibromomethane	ND ND	ug/L	4.0	1		12/22/15 12:50		
		ug/L		1				
1,2-Dichlorobenzene	ND	ug/L	1.0			12/22/15 12:50		
1,3-Dichlorobenzene	ND	ug/L	1.0	1		12/22/15 12:50		
1,4-Dichlorobenzene	ND	ug/L	1.0	1		12/22/15 12:50		
Dichlorodifluoromethane	ND	ug/L	1.0	1		12/22/15 12:50		
1,1-Dichloroethane	ND	ug/L	1.0	1		12/22/15 12:50		
1,2-Dichloroethane	ND	ug/L	1.0	1		12/22/15 12:50		
1,1-Dichloroethene	ND	ug/L	1.0	1		12/22/15 12:50		
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		12/22/15 12:50		
rans-1,2-Dichloroethene	ND	ug/L	1.0	1		12/22/15 12:50		
Dichlorofluoromethane	ND	ug/L	1.0	1		12/22/15 12:50		
1,2-Dichloropropane	ND	ug/L	4.0	1		12/22/15 12:50		
1,3-Dichloropropane	ND	ug/L	1.0	1		12/22/15 12:50) 142-28-9	
2,2-Dichloropropane	ND	ug/L	4.0	1		12/22/15 12:50		
1,1-Dichloropropene	ND	ug/L	1.0	1		12/22/15 12:50		
cis-1,3-Dichloropropene	ND	ug/L	4.0	1		12/22/15 12:50	10061-01-5	
rans-1,3-Dichloropropene	ND	ug/L	4.0	1		12/22/15 12:50	10061-02-6	
Diethyl ether (Ethyl ether)	ND	ug/L	4.0	1		12/22/15 12:50		
Ethylbenzene	ND	ug/L	1.0	1		12/22/15 12:50		
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		12/22/15 12:50	87-68-3	
sopropylbenzene (Cumene)	ND	ug/L	1.0	1		12/22/15 12:50	98-82-8	
o-Isopropyltoluene	ND	ug/L	1.0	1		12/22/15 12:50	99-87-6	
Methylene Chloride	ND	ug/L	4.0	1		12/22/15 12:50	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		12/22/15 12:50	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		12/22/15 12:50	1634-04-4	

REPORT OF LABORATORY ANALYSIS

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Project: CrC
Pace Project No.: 10333461

Date: 12/23/2015 04:03 PM

Sample: MW-20	Lab ID: 103	33461015	Collected: 12/14/1	5 15:25	Received: 1	2/15/15 16:38 I	Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qua
8260B VOC	Analytical Meth	nod: EPA 82	260B					
Naphthalene	ND	ug/L	4.0	1		12/22/15 12:50	91-20-3	
n-Propylbenzene	ND	ug/L	1.0	1		12/22/15 12:50	103-65-1	
Styrene	ND	ug/L	1.0	1		12/22/15 12:50	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		12/22/15 12:50	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		12/22/15 12:50	79-34-5	
Tetrachloroethene	177	ug/L	1.0	1		12/22/15 12:50	127-18-4	
Tetrahydrofuran	ND	ug/L	10.0	1		12/22/15 12:50	109-99-9	
Toluene	ND	ug/L	1.0	1		12/22/15 12:50	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		12/22/15 12:50	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		12/22/15 12:50	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		12/22/15 12:50	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		12/22/15 12:50	79-00-5	
Trichloroethene	ND	ug/L	0.40	1		12/22/15 12:50	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		12/22/15 12:50	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	4.0	1		12/22/15 12:50	96-18-4	
1,1,2-Trichlorotrifluoroethane	17.6	ug/L	1.0	1		12/22/15 12:50	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1		12/22/15 12:50	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1		12/22/15 12:50	108-67-8	
Vinyl chloride	ND	ug/L	0.40	1		12/22/15 12:50	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		12/22/15 12:50	1330-20-7	
Surrogates								
1,2-Dichloroethane-d4 (S)	96	%.	75-125	1		12/22/15 12:50	17060-07-0	
Toluene-d8 (S)	92	%.	75-125	1		12/22/15 12:50	2037-26-5	
4-Bromofluorobenzene (S)	102	%.	75-125	1		12/22/15 12:50	460-00-4	



ANALYTICAL RESULTS

Project: CrC
Pace Project No.: 10333461

Date: 12/23/2015 04:03 PM

Sample: Trip Blank	Lab ID: 103	33461016	Collected: 12/14/1	5 00:00	Received:	12/15/15 16:38	Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qua
8260B VOC	Analytical Met	nod: EPA 82	260B					
Acetone	ND	ug/L	20.0	1		12/18/15 11:24	67-64-1	
Allyl chloride	ND	ug/L	4.0	1		12/18/15 11:24	107-05-1	
Benzene	ND	ug/L	1.0	1		12/18/15 11:24	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		12/18/15 11:24	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		12/18/15 11:24	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		12/18/15 11:24	75-27-4	
Bromoform	ND	ug/L	4.0	1		12/18/15 11:24	75-25-2	
Bromomethane	ND	ug/L	4.0	1		12/18/15 11:24	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	1		12/18/15 11:24	78-93-3	L3
n-Butylbenzene	ND	ug/L	1.0	1		12/18/15 11:24	104-51-8	
sec-Butylbenzene	ND	ug/L	1.0	1		12/18/15 11:24		
tert-Butylbenzene	ND	ug/L	1.0	1		12/18/15 11:24		
Carbon tetrachloride	ND	ug/L	1.0	1		12/18/15 11:24		
Chlorobenzene	ND	ug/L	1.0	1		12/18/15 11:24		
Chloroethane	ND	ug/L	1.0	1		12/18/15 11:24		
Chloroform	ND	ug/L	1.0	1		12/18/15 11:24		
Chloromethane	ND ND	ug/L	4.0	1		12/18/15 11:24		
2-Chlorotoluene	ND ND	ug/L	1.0	1		12/18/15 11:24		
4-Chlorotoluene	ND ND	_	1.0	1		12/18/15 11:24		
		ug/L		1				
1,2-Dibromo-3-chloropropane	ND	ug/L	4.0			12/18/15 11:24		
Dibromochloromethane	ND	ug/L	1.0	1 1		12/18/15 11:24	_	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0			12/18/15 11:24		
Dibromomethane	ND	ug/L	4.0	1		12/18/15 11:24		
1,2-Dichlorobenzene	ND	ug/L	1.0	1		12/18/15 11:24		
1,3-Dichlorobenzene	ND	ug/L	1.0	1		12/18/15 11:24		
1,4-Dichlorobenzene	ND	ug/L	1.0	1		12/18/15 11:24		
Dichlorodifluoromethane	ND	ug/L	1.0	1		12/18/15 11:24		
1,1-Dichloroethane	ND	ug/L	1.0	1		12/18/15 11:24		
1,2-Dichloroethane	ND	ug/L	1.0	1		12/18/15 11:24		
1,1-Dichloroethene	ND	ug/L	1.0	1		12/18/15 11:24		
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		12/18/15 11:24		
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		12/18/15 11:24		
Dichlorofluoromethane	ND	ug/L	1.0	1		12/18/15 11:24	75-43-4	
1,2-Dichloropropane	ND	ug/L	4.0	1		12/18/15 11:24	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		12/18/15 11:24		
2,2-Dichloropropane	ND	ug/L	4.0	1		12/18/15 11:24	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		12/18/15 11:24	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	4.0	1		12/18/15 11:24	10061-01-5	
rans-1,3-Dichloropropene	ND	ug/L	4.0	1		12/18/15 11:24	10061-02-6	
Diethyl ether (Ethyl ether)	ND	ug/L	4.0	1		12/18/15 11:24	60-29-7	
Ethylbenzene	ND	ug/L	1.0	1		12/18/15 11:24	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		12/18/15 11:24	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		12/18/15 11:24	98-82-8	
p-Isopropyltoluene	ND	ug/L	1.0	1		12/18/15 11:24		
Methylene Chloride	ND	ug/L	4.0	1		12/18/15 11:24		
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		12/18/15 11:24		L3
Methyl-tert-butyl ether	ND	ug/L	1.0	1		12/18/15 11:24		

REPORT OF LABORATORY ANALYSIS

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Project: CrC
Pace Project No.: 10333461

Date: 12/23/2015 04:03 PM

Sample: Trip Blank	Lab ID: 103	33461016	Collected: 12/14/1	5 00:00	Received:	12/15/15 16:38	Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260B VOC	Analytical Meth	nod: EPA 82	260B					
Naphthalene	ND	ug/L	4.0	1		12/18/15 11:24	91-20-3	
n-Propylbenzene	ND	ug/L	1.0	1		12/18/15 11:24	103-65-1	
Styrene	ND	ug/L	1.0	1		12/18/15 11:24	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		12/18/15 11:24	1 630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		12/18/15 11:24	79-34-5	L3
Tetrachloroethene	ND	ug/L	1.0	1		12/18/15 11:24	127-18-4	
Tetrahydrofuran	ND	ug/L	10.0	1		12/18/15 11:24	109-99-9	
Toluene	ND	ug/L	1.0	1		12/18/15 11:24	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		12/18/15 11:24	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		12/18/15 11:24	1 120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		12/18/15 11:24	1 71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		12/18/15 11:24	79-00-5	
Trichloroethene	ND	ug/L	0.40	1		12/18/15 11:24	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		12/18/15 11:24	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	4.0	1		12/18/15 11:24	96-18-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/L	1.0	1		12/18/15 11:24	1 76-13-1	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1		12/18/15 11:24	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1		12/18/15 11:24	1 108-67-8	
Vinyl chloride	ND	ug/L	0.40	1		12/18/15 11:24	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		12/18/15 11:24	1330-20-7	
Surrogates		•						
1,2-Dichloroethane-d4 (S)	105	%.	75-125	1		12/18/15 11:24	17060-07-0	
Toluene-d8 (S)	97	%.	75-125	1		12/18/15 11:24	2037-26-5	
4-Bromofluorobenzene (S)	104	%.	75-125	1		12/18/15 11:24	460-00-4	



QUALITY CONTROL DATA

Project: CrC
Pace Project No.: 10333461

Date: 12/23/2015 04:03 PM

QC Batch: MSV/34137 Analysis Method: EPA 8260B

QC Batch Method: EPA 8260B Analysis Description: 8260B MSV 465 W

Associated Lab Samples: 10333461001, 10333461002, 10333461003, 10333461006, 10333461007, 10333461008, 10333461009,

10333461010, 10333461011, 10333461012, 10333461013, 10333461016

METHOD BLANK: 2160328 Matrix: Water

Associated Lab Samples: 10333461001, 10333461002, 10333461003, 10333461006, 10333461007, 10333461008, 10333461009,

10333461010, 10333461011, 10333461012, 10333461013, 10333461016

10000	01010, 10333401011	Blank	Reporting	000101010	
Parameter	Units	Result	Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND -	1.0	12/18/15 11:08	
1,1,1-Trichloroethane	ug/L	ND	1.0	12/18/15 11:08	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	12/18/15 11:08	
1,1,2-Trichloroethane	ug/L	ND	1.0	12/18/15 11:08	
1,1,2-Trichlorotrifluoroethane	ug/L	ND	1.0	12/18/15 11:08	
1,1-Dichloroethane	ug/L	ND	1.0	12/18/15 11:08	
1,1-Dichloroethene	ug/L	ND	1.0	12/18/15 11:08	
1,1-Dichloropropene	ug/L	ND	1.0	12/18/15 11:08	
1,2,3-Trichlorobenzene	ug/L	ND	1.0	12/18/15 11:08	
1,2,3-Trichloropropane	ug/L	ND	4.0	12/18/15 11:08	
1,2,4-Trichlorobenzene	ug/L	ND	1.0	12/18/15 11:08	
1,2,4-Trimethylbenzene	ug/L	ND	1.0	12/18/15 11:08	
1,2-Dibromo-3-chloropropane	ug/L	ND	4.0	12/18/15 11:08	
1,2-Dibromoethane (EDB)	ug/L	ND	1.0	12/18/15 11:08	
1,2-Dichlorobenzene	ug/L	ND	1.0	12/18/15 11:08	
1,2-Dichloroethane	ug/L	ND	1.0	12/18/15 11:08	
1,2-Dichloropropane	ug/L	ND	4.0	12/18/15 11:08	
1,3,5-Trimethylbenzene	ug/L	ND	1.0	12/18/15 11:08	
1,3-Dichlorobenzene	ug/L	ND	1.0	12/18/15 11:08	
1,3-Dichloropropane	ug/L	ND	1.0	12/18/15 11:08	
1,4-Dichlorobenzene	ug/L	ND	1.0	12/18/15 11:08	
2,2-Dichloropropane	ug/L	ND	4.0	12/18/15 11:08	
2-Butanone (MEK)	ug/L	ND	5.0	12/18/15 11:08	
2-Chlorotoluene	ug/L	ND	1.0	12/18/15 11:08	
4-Chlorotoluene	ug/L	ND	1.0	12/18/15 11:08	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	5.0	12/18/15 11:08	
Acetone	ug/L	ND	20.0	12/18/15 11:08	
Allyl chloride	ug/L	ND	4.0	12/18/15 11:08	
Benzene	ug/L	ND	1.0	12/18/15 11:08	
Bromobenzene	ug/L	ND	1.0	12/18/15 11:08	
Bromochloromethane	ug/L	ND	1.0	12/18/15 11:08	
Bromodichloromethane	ug/L	ND	1.0	12/18/15 11:08	
Bromoform	ug/L	ND	4.0	12/18/15 11:08	
Bromomethane	ug/L	ND	4.0	12/18/15 11:08	
Carbon tetrachloride	ug/L	ND	1.0	12/18/15 11:08	
Chlorobenzene	ug/L	ND	1.0	12/18/15 11:08	
Chloroethane	ug/L	ND	1.0	12/18/15 11:08	
Chloroform	ug/L	ND	1.0	12/18/15 11:08	
Chloromethane	ug/L	ND	4.0	12/18/15 11:08	
cis-1,2-Dichloroethene	ug/L	ND	1.0	12/18/15 11:08	

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QUALITY CONTROL DATA

Project: CrC
Pace Project No.: 10333461

Date: 12/23/2015 04:03 PM

METHOD BLANK: 2160328 Matrix: Water

Associated Lab Samples: 10333461001, 10333461002, 10333461003, 10333461006, 10333461007, 10333461008, 10333461009,

10333461010, 10333461011, 10333461012, 10333461013, 10333461016

		Blank	Reporting		
Parameter	Units	Result	Limit	Analyzed	Qualifiers
cis-1,3-Dichloropropene	ug/L	ND ND	4.0	12/18/15 11:08	
Dibromochloromethane	ug/L	ND	1.0	12/18/15 11:08	
Dibromomethane	ug/L	ND	4.0	12/18/15 11:08	
Dichlorodifluoromethane	ug/L	ND	1.0	12/18/15 11:08	
Dichlorofluoromethane	ug/L	ND	1.0	12/18/15 11:08	
Diethyl ether (Ethyl ether)	ug/L	ND	4.0	12/18/15 11:08	
Ethylbenzene	ug/L	ND	1.0	12/18/15 11:08	
Hexachloro-1,3-butadiene	ug/L	ND	1.0	12/18/15 11:08	
Isopropylbenzene (Cumene)	ug/L	ND	1.0	12/18/15 11:08	
Methyl-tert-butyl ether	ug/L	ND	1.0	12/18/15 11:08	
Methylene Chloride	ug/L	ND	4.0	12/18/15 11:08	
n-Butylbenzene	ug/L	ND	1.0	12/18/15 11:08	
n-Propylbenzene	ug/L	ND	1.0	12/18/15 11:08	
Naphthalene	ug/L	ND	4.0	12/18/15 11:08	
p-Isopropyltoluene	ug/L	ND	1.0	12/18/15 11:08	
sec-Butylbenzene	ug/L	ND	1.0	12/18/15 11:08	
Styrene	ug/L	ND	1.0	12/18/15 11:08	
tert-Butylbenzene	ug/L	ND	1.0	12/18/15 11:08	
Tetrachloroethene	ug/L	ND	1.0	12/18/15 11:08	
Tetrahydrofuran	ug/L	ND	10.0	12/18/15 11:08	
Toluene	ug/L	ND	1.0	12/18/15 11:08	
trans-1,2-Dichloroethene	ug/L	ND	1.0	12/18/15 11:08	
trans-1,3-Dichloropropene	ug/L	ND	4.0	12/18/15 11:08	
Trichloroethene	ug/L	ND	0.40	12/18/15 11:08	
Trichlorofluoromethane	ug/L	ND	1.0	12/18/15 11:08	
Vinyl chloride	ug/L	ND	0.40	12/18/15 11:08	
Xylene (Total)	ug/L	ND	3.0	12/18/15 11:08	
1,2-Dichloroethane-d4 (S)	%.	100	75-125	12/18/15 11:08	
4-Bromofluorobenzene (S)	%.	104	75-125	12/18/15 11:08	
Toluene-d8 (S)	%.	98	75-125	12/18/15 11:08	

LABORATORY CONTROL SAMPLE:	2160329					
		Spike	LCS	LCS	% Rec	
Parameter	Units	Conc.	Result	% Rec	Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	20	20.2	101	75-125	
1,1,1-Trichloroethane	ug/L	20	21.2	106	75-125	
1,1,2,2-Tetrachloroethane	ug/L	20	26.3	131	75-125 L	0
1,1,2-Trichloroethane	ug/L	20	23.7	119	75-125	
1,1,2-Trichlorotrifluoroethane	ug/L	20	21.3	107	60-135	
1,1-Dichloroethane	ug/L	20	24.4	122	69-125	
1,1-Dichloroethene	ug/L	20	20.9	105	68-125	
1,1-Dichloropropene	ug/L	20	22.0	110	74-125	
1,2,3-Trichlorobenzene	ug/L	20	22.0	110	69-136	

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QUALITY CONTROL DATA

Project: CrC
Pace Project No.: 10333461

Date: 12/23/2015 04:03 PM

ABORATORY CONTROL SAMPLE:	2160329				
Davis :	11.5	Spike	LCS	LCS	% Rec
Parameter	Units	Conc	Result	% Rec	Limits Qualifiers
,2,3-Trichloropropane	ug/L	20	24.7	124	75-125
,2,4-Trichlorobenzene	ug/L	20	22.6	113	73-127
,2,4-Trimethylbenzene	ug/L	20	20.4	102	75-125
,2-Dibromo-3-chloropropane	ug/L	50	60.0	120	65-145
,2-Dibromoethane (EDB)	ug/L	20	24.2	121	75-125
,2-Dichlorobenzene	ug/L	20	22.7	113	75-125
,2-Dichloroethane	ug/L	20	21.7	108	73-125
,2-Dichloropropane	ug/L	20	23.0	115	75-125
,3,5-Trimethylbenzene	ug/L	20	21.3	106	75-125
,3-Dichlorobenzene	ug/L	20	20.5	102	74-125
,3-Dichloropropane	ug/L	20	23.1	115	75-125
,4-Dichlorobenzene	ug/L	20	20.6	103	75-125
,2-Dichloropropane	ug/L	20	22.3	111	59-139
-Butanone (MEK)	ug/L	100	152	152	63-130 L0
-Chlorotoluene	ug/L	20	20.6	103	72-125
-Chlorotoluene	ug/L	20	21.6	108	73-125
-Methyl-2-pentanone (MIBK)	ug/L	100	128	128	71-126 L0
cetone	ug/L	100	95.6	96	69-131 SS
llyl chloride	ug/L	20	24.2	121	67-125
Benzene	ug/L	20	22.8	114	71-125
Bromobenzene	ug/L	20	21.6	108	75-125
romochloromethane	ug/L	20	22.5	112	75-125
romodichloromethane	ug/L	20	23.2	116	75-125
Bromoform	ug/L	20	20.2	101	70-125
Bromomethane	ug/L	20	17.0	85	30-150
Carbon tetrachloride	ug/L	20	17.3	86	75-126
Chlorobenzene	ug/L	20	19.7	99	75-125
Chloroethane	ug/L	20	20.8	104	65-134
Chloroform	ug/L	20	22.6	113	75-125
Chloromethane	ug/L	20	24.6	123	39-150
is-1,2-Dichloroethene	ug/L	20	24.0	120	72-125
is-1,3-Dichloropropene	ug/L	20	21.7	109	75-125
Dibromochloromethane	ug/L	20	19.6	98	75-125
Dibromomethane	ug/L	20	22.2	111	75-125
Dichlorodifluoromethane	ug/L	20	21.1	106	50-134
Dichlorofluoromethane	ug/L	20	21.4	107	69-125
Diethyl ether (Ethyl ether)	ug/L	20	22.6	113	72-125
Ethylbenzene	ug/L	20	19.6	98	75-125
lexachloro-1,3-butadiene	ug/L	20	22.0	110	70-138
sopropylbenzene (Cumene)	ug/L	20	17.8	89	75-125
Methyl-tert-butyl ether	ug/L	20	24.1	120	73-125
lethylene Chloride	ug/L	20	20.2	101	73-125
-Butylbenzene	ug/L	20	23.0	115	72-133
-Propylbenzene	ug/L	20	19.5	98	72-126
laphthalene	ug/L	20	21.6	108	70-127
-Isopropyltoluene	ug/L	20	20.6	103	72-132
sec-Butylbenzene	ug/L	20	18.8	94	73-132

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QUALITY CONTROL DATA

Project: CrC
Pace Project No.: 10333461

Date: 12/23/2015 04:03 PM

BORATORY CONTROL SAMPLE:	2160329					
		Spike	LCS	LCS	% Rec	
Parameter	Units	Conc.	Result	% Rec	Limits	Qualifiers
ene	ug/L		20.6	103	75-125	
Butylbenzene	ug/L	20	19.8	99	73-128	
chloroethene	ug/L	20	17.5	88	74-125	
hydrofuran	ug/L	200	185	93	62-133	SS
ene	ug/L	20	20.2	101	74-125	
1,2-Dichloroethene	ug/L	20	22.4	112	69-125	
,3-Dichloropropene	ug/L	20	21.7	109	75-125	
roethene	ug/L	20	20.6	103	75-125	
rofluoromethane	ug/L	20	16.9	84	74-127	
hloride	ug/L	20	22.0	110	66-132	
e (Total)	ug/L	60	56.9	95	75-125	
chloroethane-d4 (S)	%.			110	75-125	
nofluorobenzene (S)	%.			107	75-125	
ne-d8 (S)	%.			99	75-125	

MATRIX SPIKE SAMPLE:	2162588						
		10333461006	Spike	MS	MS	% Rec	
Parameter	Units	Result	Conc.	Result	% Rec	Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	20	21.7	108	70-138	
1,1,1-Trichloroethane	ug/L	ND	20	22.2	111	55-150	
1,1,2,2-Tetrachloroethane	ug/L	ND	20	24.8	124	64-140	
1,1,2-Trichloroethane	ug/L	ND	20	24.4	122	67-137	
1,1,2-Trichlorotrifluoroethane	ug/L	ND	20	26.7	133	51-150	
1,1-Dichloroethane	ug/L	ND	20	24.7	123	49-150	
1,1-Dichloroethene	ug/L	ND	20	23.2	116	40-150	
1,1-Dichloropropene	ug/L	ND	20	23.3	116	50-150	
1,2,3-Trichlorobenzene	ug/L	ND	20	22.9	114	59-148	
1,2,3-Trichloropropane	ug/L	ND	20	22.9	114	65-141	
1,2,4-Trichlorobenzene	ug/L	ND	20	23.4	117	61-140	
1,2,4-Trimethylbenzene	ug/L	ND	20	20.8	103	58-141	
1,2-Dibromo-3-chloropropane	ug/L	ND	50	57.9	116	53-150	
1,2-Dibromoethane (EDB)	ug/L	ND	20	24.3	122	65-137	
1,2-Dichlorobenzene	ug/L	ND	20	22.5	113	66-133	
1,2-Dichloroethane	ug/L	ND	20	21.0	105	54-138	
1,2-Dichloropropane	ug/L	ND	20	24.0	120	62-138	
1,3,5-Trimethylbenzene	ug/L	ND	20	21.3	107	58-140	
1,3-Dichlorobenzene	ug/L	ND	20	20.5	103	66-132	
1,3-Dichloropropane	ug/L	ND	20	23.5	118	66-134	
1,4-Dichlorobenzene	ug/L	ND	20	20.3	102	65-129	
2,2-Dichloropropane	ug/L	ND	20	23.4	117	40-150	
2-Butanone (MEK)	ug/L	ND	100	142	142	51-147	
2-Chlorotoluene	ug/L	ND	20	21.3	106	58-147	
4-Chlorotoluene	ug/L	ND	20	21.8	109	64-138	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	100	132	132	59-143	
Acetone	ug/L	ND	100	143	143	63-147	SS

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QUALITY CONTROL DATA

Project: CrC
Pace Project No.: 10333461

Date: 12/23/2015 04:03 PM

MATRIX SPIKE SAMPLE:	2162588						
_		10333461006	Spike	MS	MS	% Rec	
Parameter	Units	Result	Conc.	Result	% Rec	Limits Qualit	tiers
Allyl chloride	ug/L	ND	20	24.4	122	45-150	
Benzene	ug/L	ND	20	23.0	115	53-139	
Bromobenzene	ug/L	ND	20	21.2	106	66-136	
Bromochloromethane	ug/L	ND	20	21.1	105	64-136	
Bromodichloromethane	ug/L	ND	20	22.2	111	66-138	
Bromoform	ug/L	ND	20	20.1	101	59-136	
Bromomethane	ug/L	ND	20	15.6	78	30-150	
Carbon tetrachloride	ug/L	ND	20	18.7	93	56-150	
Chlorobenzene	ug/L	ND	20	20.5	102	65-133	
Chloroethane	ug/L	ND	20	21.1	106	48-150	
Chloroform	ug/L	ND	20	23.8	115	57-145	
Chloromethane	ug/L	ND	20	25.8	129	30-150	
cis-1,2-Dichloroethene	ug/L	ND	20	23.4	117	49-150	
cis-1,3-Dichloropropene	ug/L	ND	20	21.7	109	64-130	
Dibromochloromethane	ug/L	ND	20	20.8	104	68-138	
Dibromomethane	ug/L	ND	20	21.6	108	67-134	
Dichlorodifluoromethane	ug/L	ND	20	24.8	124	45-150	
Dichlorofluoromethane	ug/L	ND	20	21.3	107	54-150	
Diethyl ether (Ethyl ether)	ug/L	ND	20	22.8	114	50-145	
Ethylbenzene	ug/L	ND	20	20.8	104	55-139	
Hexachloro-1,3-butadiene	ug/L	ND	20	21.6	108	49-150	
Isopropylbenzene (Cumene)	ug/L	ND	20	19.2	96	64-142	
Methyl-tert-butyl ether	ug/L	ND	20	22.5	113	62-129	
Methylene Chloride	ug/L	ND	20	20.2	101	57-132	
n-Butylbenzene	ug/L	ND	20	22.9	115	55-150	
n-Propylbenzene	ug/L	ND	20	19.9	99	59-142	
Naphthalene	ug/L	ND	20	23.2	116	51-150	
p-Isopropyltoluene	ug/L	ND	20	21.8	109	60-149	
sec-Butylbenzene	ug/L	ND	20	19.7	99	60-150	
Styrene	ug/L	ND	20	21.5	107	68-134	
tert-Butylbenzene	ug/L	ND	20	20.6	103	62-146	
Tetrachloroethene	ug/L	67.8	20	123	276	50-150 M1	
Tetrahydrofuran	ug/L	ND	200	297	148	59-145 M1,SS	
Toluene	ug/L	ND	200	21.2	106	52-148	
trans-1,2-Dichloroethene	ug/L	ND	20	24.0	120	45-150	
trans-1,3-Dichloropropene	ug/L	ND	20	21.8	109	68-132	
Trichloroethene	ug/L	ND	20	22.0	110	52-150	
Trichloroethene Trichlorofluoromethane	ug/L ug/L	ND ND	20	18.6	93	52-150 55-150	
	_	ND ND	20 20				
Vinyl chloride	ug/L	ND ND	60	22.5 60.8	112	43-150	
Xylene (Total)	ug/L	ND	00	8.00	101	54-144 75-125	
1,2-Dichloroethane-d4 (S)	%.				107	75-125	
4-Bromofluorobenzene (S)	%.				103	75-125	
Toluene-d8 (S)	%.				100	75-125	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.



QUALITY CONTROL DATA

Project: CrC
Pace Project No.: 10333461

Date: 12/23/2015 04:03 PM

SAMPLE DUPLICATE: 2162589						
Parameter	Units	10333461007 Result	Dup Result	RPD	Max RPD	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L		ND		30	
1,1,1-Trichloroethane	ug/L	ND	ND		30	
1,1,2,2-Tetrachloroethane	ug/L	ND	ND		30	
1,1,2-Trichloroethane	ug/L	ND	ND		30	
1,1,2-Trichlorotrifluoroethane	ug/L	ND	ND		30	
1,1-Dichloroethane	ug/L	ND	ND		30	
1,1-Dichloroethene	ug/L	ND	ND		30	
1,1-Dichloropropene	ug/L	ND	ND		30	
1,2,3-Trichlorobenzene	ug/L	ND	ND		30	
1,2,3-Trichloropropane	ug/L	ND	ND		30	
1,2,4-Trichlorobenzene	ug/L	ND	ND		30	
1,2,4-Trimethylbenzene	ug/L	ND	ND		30	
1,2-Dibromo-3-chloropropane	ug/L	ND	ND		30	
1,2-Dibromoethane (EDB)	ug/L	ND	ND		30	
1,2-Dichlorobenzene	ug/L	ND	ND		30	
1,2-Dichloroethane	ug/L	ND	ND		30	
1,2-Dichloropropane	ug/L	ND	ND		30	
1,3,5-Trimethylbenzene	ug/L	ND	ND		30	
1,3-Dichlorobenzene	ug/L	ND	ND		30	
1,3-Dichloropropane	ug/L	ND	ND		30	
1,4-Dichlorobenzene	ug/L	ND	ND		30	
2,2-Dichloropropane	ug/L	ND	ND		30	
2-Butanone (MEK)	_	ND	ND ND		30	
2-Chlorotoluene	ug/L	ND	ND ND		30	
4-Chlorotoluene	ug/L ug/L	ND ND	ND ND		30	
	_	ND ND	ND ND		30	
4-Methyl-2-pentanone (MIBK)	ug/L	ND ND			30	
Acetone	ug/L	ND ND	ND			
Allyl chloride	ug/L	ND ND	ND		30	
Benzene	ug/L	ND ND	ND		30	
Bromobenzene	ug/L	ND ND	ND		30	
Bromochloromethane	ug/L		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	.79J		30	
Chloromethane	ug/L	ND	ND		30	
cis-1,2-Dichloroethene	ug/L	ND	ND		30	
cis-1,3-Dichloropropene	ug/L	ND	ND		30	
Dibromochloromethane	ug/L	ND	ND		30	
Dibromomethane	ug/L	ND	ND		30	
Dichlorodifluoromethane	ug/L	ND	ND		30	
Dichlorofluoromethane	ug/L	ND	ND		30	
Diethyl ether (Ethyl ether)	ug/L	ND	ND		30	
Ethylbenzene	ug/L	ND	ND		30	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.



QUALITY CONTROL DATA

Project: CrC
Pace Project No.: 10333461

Date: 12/23/2015 04:03 PM

SAMPLE DUPLICATE: 2162589						
		10333461007	Dup		Max	
Parameter	Units	Result	Result	RPD	RPD	Qualifiers
Hexachloro-1,3-butadiene	ug/L	ND	ND		30	
Isopropylbenzene (Cumene)	ug/L	ND	ND		30	
Methyl-tert-butyl ether	ug/L	ND	ND		30	
Methylene Chloride	ug/L	ND	ND		30	
n-Butylbenzene	ug/L	ND	ND		30	
n-Propylbenzene	ug/L	ND	ND		30	
Naphthalene	ug/L	ND	ND		30	
p-Isopropyltoluene	ug/L	ND	ND		30	
sec-Butylbenzene	ug/L	ND	ND		30	
Styrene	ug/L	ND	ND		30	
tert-Butylbenzene	ug/L	ND	ND		30	
Tetrachloroethene	ug/L	146	158	8	30	
Tetrahydrofuran	ug/L	ND	ND		30	
Toluene	ug/L	ND	ND		30	
trans-1,2-Dichloroethene	ug/L	ND	ND		30	
trans-1,3-Dichloropropene	ug/L	ND	ND		30	
Trichloroethene	ug/L	ND	ND		30	
Trichlorofluoromethane	ug/L	ND	ND		30	
Vinyl chloride	ug/L	ND	ND		30	
Xylene (Total)	ug/L	ND	ND		30	
1,2-Dichloroethane-d4 (S)	%.	102	106	4		
4-Bromofluorobenzene (S)	%.	105	102	3		
Toluene-d8 (S)	%.	99	97	2		

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.



QUALIFIERS

Project: CrC
Pace Project No.: 10333461

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

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.

PQL - Practical Quantitation Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

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

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

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

SS

Date: 12/23/2015 04:03 PM

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.
L1	Analyte recovery in the laboratory control sample (LCS) was above QC limits. Results may be biased high.
L3	Analyte recovery in the laboratory control sample (LCS) exceeded QC limits. Analyte presence below reporting limits in associated samples. Results unaffected by high bias.
M1	Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

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.: 10333461

Date: 12/23/2015 04:03 PM

ab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytica Batch		
0333461001	DPE-1	EPA 8260B	MSV/34137				
0333461002	DPE-2	EPA 8260B	MSV/34137				
0333461003	DPE-3	EPA 8260B	MSV/34137				
0333461004	DPE-4	EPA 8260B	MSV/34182				
0333461005	DPE-5	EPA 8260B	MSV/34182				
0333461006	DPE-6	EPA 8260B	MSV/34137				
0333461007	DPE-7	EPA 8260B	MSV/34137				
0333461008	DPE-8	EPA 8260B	MSV/34137				
0333461009	MW-14	EPA 8260B	MSV/34137				
0333461010	MW-15	EPA 8260B	MSV/34137				
0333461011	MW-16	EPA 8260B	MSV/34137				
0333461012	MW-17	EPA 8260B	MSV/34137				
0333461013	MW-18	EPA 8260B	MSV/34137				
0333461014	MW-19	EPA 8260B	MSV/34182				
0333461015	MW-20	EPA 8260B	MSV/34182				
0333461016	Trip Blank	EPA 8260B	MSV/34137				

CHAIN-OF-CUSTODY / Analytical Request Document

Pace Analytical www.pacelabs.com

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

192550

860 88 3 700 200 ટ્ટ 50 500 Pace Project No./ Lab I.D. (N/Y) DRINKING WATER Samples Intact F-ALL-Q-020rev.07, 15-May-2007 SAMPLE CONDITIONS 7887 OTHER (N/Y) Custody Sealed Cooler ₽ (D) Ice (Y/N) GROUND WATER Received on Residual Chlorine (Y/N) O° ni qmeT Page: REGULATORY AGENCY RCRA Requested Analysis Filtered (Y/N) TIME STATE Site Location NPDES DATE 2 UST N DATE Signed (MM/DD/YY): ACCEPTED BY NAFFILIATION . V 2000/120 teaT sisylanA N/A Other 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 Methanol Preservatives Na₂S₂O₃ HOBN HCI Invoice Information: Company Name: Pace Quote Reference: Pace Project Manager: Pace Profile #: [†]OS^ZH Section C Unpreserved Attention: TIME Address: # OF CONTAINERS SAMPLER NAME AND SIGNATURE SIGNATURE of SAMPLER: PRINT Name of SAMPLER: 12115/15 landon Meny Com CODY TO, CONCALL O LANDINGANILL MAN, COM SAMPLE TEMP AT COLLECTION DATE TIME COMPOSITE END/GRAB が最后が DATE COLLECTED RELINQUISHED BY / AFFILIATION R 15:50 16:35 50.9 50.4 all book A CO 16:25 15:15 TIME COMPOSITE Report To: Silvanos Shall DATE Required Project Information: -Purchase Order No.: (G=GRAB C=COMP) SAMPLE TYPE Project Number: (see valid codes to left) MATRIX CODE Project Name: Section B ORIGINAL Matrix Codes
MATRIX / CODE Drinking Water Water mail To: Koramostach / was beaust Censs.co Waste Water Product Soil/Solid Oil Wipe Air Tissue Other nvioninale ADDITIONAL COMMENTS 2 12 5 (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE 00000 00000 3 0 PR - 5 Sand mark DPE-2 S-JAG 7-360 8-300 772 135 SAMPLE ID 1300 Section A Required Olient Information: Required Client Information Requested Due Date/TAT: Section D Sompany: F 12 က 9 00 10 # MaTI N ~ Ø Page 46 of 48

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CHAIN-OF-CUSTODY / Analytical Request Document

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1233461

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

DRINKING WATER 1979942 OTHER ğ NPDES GROUND WATER IT Page: REGULATORY AGENCY RCRA Site Location STATE UST Invoice Information: Company Name: Pace Quote Reference: Pace Project Manager: Pace Profile #: Section C Attention: Address: produce Reservices front front Const. Com Report To: SKinger Stad Q 9 Krall 6 Section B Required Project Information: Purchase Order No.: Project Number: Project Name: Copy To: 🗸 15 Kramstal Olan Jackens. Company Chalman Barom received Section A Required Client Information: Requested Due Date/TAT: Email To: Address: Phone:

Requested Analysis Filtered (Y/N)

		Pace Project No./ Lab I.D.	<10°	230	-510°		Harmania de la Carte de Carte					Manage and the second s	THE PROPERTY OF THE PROPERTY O	SAMPLE CONDITIONS	2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 -			(Y/N) stody d Cooler (Y/N)	eol uO else2)
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TED	COMPOSITE END/GRAB	DATE	┝												****			R NAME AND SIGNATUR! PRINT Name of SAMPLER:	SIGNATURE of SAMPLER:
COLLECTED	Щ	TIME	LA	T.	5:52									RELINQUISHED BY / AFFILIATION				SAMPLER NAME A	Si
	COMPOSITE	DATE	65		4			1				***************************************		ED BY / A	1/1			<i>o</i>	
(awc	=GRAB C=CC		C					1			-	1		NQUISH		•			
(i)el oi	see valid codes	MATRIX CODE	3	3	5														
흥성	Drinking Water DW Water WT Waste Water WW Product P Soil/Soild SL	Wipe WE Air AR Tissue TS Other OT	Ş		20									S				ORIGINAL	
Section D Required Client Information		Sample IDs MUST BE UNIQUE	3 2	3	9									ADDITIONAL COMMENTS					
		ITEM #	-	7	3	4	2	ဖ	~	œ	6	2	2 2		l			age 47	of 49

Pace Analytical*

Document Name: Sample Condition Upon Receipt Form

Document No.:

F-MN-L-213-rev.13

Document Revised: 23Feb2015 Page 1 of 1

Issuing Authority: Pace Minnesota Quality Office

Sample Condition Upon Receipt Lankman			Project	#: WO#:10333461
	Ducco	r.K.		# # # #
Courier:	USPS Other:		Client	
	Jotner:_			10333461
Custody Seal on Cooler/Box Present? Yes	0 9	Seals Int	act?	Yes No Optional: Proj. Due Date: Proj. Name:
Packing Material: Bubble Wrap Bubble Bags	None	е 🗀	Other:	Temp Blank? Øves □No
Thermometer ☐ B88A9130516413 ☐ B88A9121675 Used: ☑ B88A0143310	04 098	e of Ice:	We	t Blue None Samples on ice, cooling process has beg
Cooler Temp Read (°C): 12 Cooler Temp Coremp should be above freezing to 6°C Correction Fac	rrected (°C)		<u>S</u> Dat	Biological Tissue Frozen? Yes No No
JSDA Regulated Soil (🗹 N/A, water sample)				7-W 1-U
id samples originate in a quarantine zone within the United IS, NC, NM, NY, OK, OR, SC, TN, TX or WA (check maps)? If Yes to either question, fill out a Re	•		Yes	 ID, LA. Did samples originate from a foreign source (internationally, No including Hawaii and Puerto Rico)? Q-338) and include with SCUR/COC paperwork.
				COMMENTS:
Chain of Custody Present?	[☑Yeş	□No	□N/A	1.
Chain of Custody Filled Out?	É Yes	□No	□n/a	2.
Chain of Custody Relinquished?	ZY98	□No	□N/A	3.
Sampler Name and/or Signature on COC?	Yes	√□No	□n/A	4.
Samples Arrived within Hold Time?	[]\Yes	□No	□N/A	5.
Short Hold Time Analysis (<72 hr)?	Yes	No	□N/A	6.
Rush Turn Around Time Requested?	Yes	No	□n/A	7.
Sufficient Volume?	V Yes	□No	□N/A	8.
Correct Containers Used?	Yes	□No	□N/A	9.
-Pace Containers Used?	✓ Yes	□No	□n/A	
Containers Intact?	Yes	□No	□n/A	10.
Filtered Volume Received for Dissolved Tests?	□Yes	□No	N/A	11. Note if sediment is visible in the dissolved container
Sample Labels Match COC?	Yes	□No	□N/A	12.
-Includes Date/Time/ID/Analysis Matrix: // All containers needing acid/base preservation have been		***************************************		
checked? All containers needing preservation are found to be in	□Yes	□No	⊠N/A	13.
compliance with EPA recommendation? (HNO3, H ₂ SO ₃ , HCl<2; NaOH >9 Sulfide, NaOH>12 Cyanide) Exceptions: (XOA, Coliform, TOC, Oil and Grease,	□Yes	□No	ØN/A	Initial when Lot # of added
DRO/8015 (water) DOC	Yes	□No	□N/A	completed: preservative:
Headspace in VOA Vials (>6mm)?	□Yes	ØΝο.	□n/a	14.
Trip Blank Present?	12 yes	□No	□N/A	15.
Trip Blank Custody Seals Present? Pace Trip Blank Lot # (if purchased): 120815-0	Yes	□No	□n/a	
CLIENT NOTIFICATION/RESOLUTION				Field Data Required? Yes No
Person Contacted:				Date/Time:
Comments/Resolution:				
	/)	0	b '	0 10 - 1
Project Manager Review:		/>	101	Date: De C / (0, 20) / S





January 14, 2016

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

RE: Project: City of Rochester

Pace Project No.: 10335669

Dear Mr. Skramstad:

Enclosed are the analytical results for sample(s) received by the laboratory on January 12, 2016. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

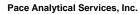
If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Oyeyemi Odujole oyeyemi.odujole@pacelabs.com Project Manager

Enclosures





Pace Analytical www.pacelabs.com

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

CERTIFICATIONS

Project: City of Rochester
Pace Project No.: 10335669

Green Bay Certification IDs

1241 Bellevue Street, Green Bay, WI 54302 Florida/NELAP Certification #: E87948 Illinois Certification #: 200050 Kentucky Certification #: 82 Louisiana Certification #: 04168 Minnesota Certification #: 055-999-334 Virginia VELAP ID: 460263

North Dakota Certification #: R-150 South Carolina Certification #: 83006001 Texas Certification #: T104704529-14-1 US Dept of Agriculture #: S-76505 Virginia VELAP Certification ID: 460263 Virginia VELAP ID: 460263 Wisconsin Certification #: 405132750





SAMPLE SUMMARY

Project: City of Rochester

Pace Project No.: 10335669

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10335669001	AS-Inflluent	Water	01/11/16 16:00	01/12/16 09:45
10335669002	AS-Efflluent	Water	01/11/16 17:00	01/12/16 09:45

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



SAMPLE ANALYTE COUNT

Project: City of Rochester

Pace Project No.: 10335669

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
10335669001	AS-Infiluent	EPA 624	LAP	70	PASI-G
10335669002	AS-Efflluent	EPA 624	LAP	70	PASI-G





Dibromochloromethane

Dichlorodifluoromethane

Diethyl ether (Ethyl ether)

Hexachloro-1,3-butadiene

Date: 01/14/2016 04:23 PM

Isopropylbenzene (Cumene)

Dichlorofluoromethane

Dibromomethane

Ethylbenzene

ANALYTICAL RESULTS

Project: City of Rochester
Pace Project No.: 10335669

Sample: AS-Inflluent Lab ID: 10335669001 Collected: 01/11/16 16:00 Received: 01/12/16 09:45 Matrix: Water **Parameters** Results Units Report Limit DF Prepared Analyzed CAS No. Qual Analytical Method: EPA 624 624 Volatile Organics 1,1,1,2-Tetrachloroethane ND ug/L 1.0 1 01/13/16 18:38 630-20-6 ND 01/13/16 18:38 71-55-6 1,1,1-Trichloroethane ug/L 1.0 1 ND 1.1.2.2-Tetrachloroethane ug/L 1.0 01/13/16 18:38 79-34-5 1 1,1,2-Trichloroethane ND ug/L 01/13/16 18:38 79-00-5 1.0 1 1,1,2-Trichlorotrifluoroethane ND ug/L 5.0 1 01/13/16 18:38 76-13-1 1,1-Dichloroethane ND ug/L 1.0 1 01/13/16 18:38 75-34-3 1,1-Dichloroethene ND ug/L 1.0 1 01/13/16 18:38 75-35-4 1,1-Dichloropropene ND ug/L 1.0 1 01/13/16 18:38 563-58-6 1,2,3-Trichlorobenzene ND ug/L 5.0 1 01/13/16 18:38 87-61-6 1,2,3-Trichloropropane ND ug/L 1.0 1 01/13/16 18:38 96-18-4 1,2,4-Trichlorobenzene ND ug/L 5.0 01/13/16 18:38 120-82-1 1 1,2,4-Trimethylbenzene ND ug/L 1.0 01/13/16 18:38 95-63-6 1 ND 5.0 1,2-Dibromo-3-chloropropane ug/L 1 01/13/16 18:38 96-12-8 01/13/16 18:38 106-93-4 1,2-Dibromoethane (EDB) ND ug/L 1.0 1 ND 01/13/16 18:38 95-50-1 1,2-Dichlorobenzene ug/L 1.0 1 1,2-Dichloroethane ND ug/L 1.0 1 01/13/16 18:38 107-06-2 1,2-Dichloropropane ND ug/L 1.0 1 01/13/16 18:38 78-87-5 1,3,5-Trimethylbenzene ND ug/L 1.0 1 01/13/16 18:38 108-67-8 1,3-Dichlorobenzene ND ug/L 1.0 01/13/16 18:38 541-73-1 1 ND 1,3-Dichloropropane ug/L 1.0 1 01/13/16 18:38 142-28-9 1,4-Dichlorobenzene ND ug/L 1.0 1 01/13/16 18:38 106-46-7 2,2-Dichloropropane ND ug/L 1.0 01/13/16 18:38 594-20-7 1 2-Butanone (MEK) ND ug/L 20.0 01/13/16 18:38 78-93-3 1 2-Chlorotoluene ND 1.0 01/13/16 18:38 95-49-8 ug/L 1 4-Chlorotoluene ND ug/L 1.0 01/13/16 18:38 106-43-4 1 4-Methyl-2-pentanone (MIBK) ND ug/L 20.0 1 01/13/16 18:38 108-10-1 Acetone ND ug/L 20.0 1 01/13/16 18:38 67-64-1 Allyl chloride ND ug/L 5.0 1 01/13/16 18:38 107-05-1 Benzene ND ug/L 1.0 1 01/13/16 18:38 71-43-2 ND ug/L 1.0 01/13/16 18:38 108-86-1 Bromobenzene 1 ND Bromochloromethane ug/L 1.0 1 01/13/16 18:38 74-97-5 ND Bromodichloromethane ug/L 1.0 1 01/13/16 18:38 75-27-4 Bromoform ND ua/L 5.0 1 01/13/16 18:38 75-25-2 **Bromomethane** ND ug/L 5.0 1 01/13/16 18:38 74-83-9 ND Carbon tetrachloride ug/L 1.0 1 01/13/16 18:38 56-23-5 01/13/16 18:38 108-90-7 ND Chlorobenzene ug/L 1.0 1 01/13/16 18:38 75-00-3 ND Chloroethane 1.0 ug/L 1 01/13/16 18:38 67-66-3 ND 5.0 Chloroform ug/L 1 Chloromethane ND ug/L 1.0 1 01/13/16 18:38 74-87-3

REPORT OF LABORATORY ANALYSIS

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01/13/16 18:38 124-48-1

01/13/16 18:38 74-95-3

01/13/16 18:38 75-71-8

01/13/16 18:38 75-43-4

01/13/16 18:38 60-29-7

01/13/16 18:38 100-41-4

01/13/16 18:38 87-68-3

01/13/16 18:38 98-82-8

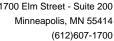


Project: City of Rochester

Pace Project No.: 10335669

Date: 01/14/2016 04:23 PM

Sample: AS-Inflluent	Lab ID: 10335669001		Collected: 01/11/1	6 16:00	Received: 01/12/16 09:45	Matrix: Water		
Parameters	Results	Units	Report Limit	DF	Prepared Analyzed	CAS No.	Qua	
624 Volatile Organics	Analytical Meth	nod: EPA 62	24					
Methyl-tert-butyl ether	ND	ug/L	1.0	1	01/13/16 18:	88 1634-04-4		
Methylene Chloride	ND	ug/L	1.0	1	01/13/16 18:	88 75-09-2		
Naphthalene	ND	ug/L	5.0	1	01/13/16 18:	88 91-20-3		
Styrene	ND	ug/L	1.0	1	01/13/16 18:	88 100-42-5		
Tetrachloroethene	21.2	ug/L	1.0	1	01/13/16 18:	88 127-18-4		
Tetrahydrofuran	ND	ug/L	5.0	1	01/13/16 18:	88 109-99-9		
Toluene	ND	ug/L	1.0	1	01/13/16 18:	88 108-88-3		
Trichloroethene	ND	ug/L	1.0	1	01/13/16 18:	88 79-01-6		
Trichlorofluoromethane	ND	ug/L	1.0	1	01/13/16 18:	88 75-69-4		
Vinyl chloride	ND	ug/L	1.0	1	01/13/16 18:	88 75-01-4		
Xylene (Total)	ND	ug/L	3.0	1	01/13/16 18:	88 1330-20-7		
cis-1,2-Dichloroethene	ND	ug/L	1.0	1	01/13/16 18:	88 156-59-2		
cis-1,3-Dichloropropene	ND	ug/L	5.0	1	01/13/16 18:	88 10061-01-5		
n-Butylbenzene	ND	ug/L	1.0	1	01/13/16 18:	88 104-51-8		
n-Propylbenzene	ND	ug/L	1.0	1	01/13/16 18:	88 103-65-1		
p-Isopropyltoluene	ND	ug/L	1.0	1	01/13/16 18:	88 99-87-6		
sec-Butylbenzene	ND	ug/L	5.0	1	01/13/16 18:	88 135-98-8		
tert-Butylbenzene	ND	ug/L	1.0	1	01/13/16 18:	88 98-06-6		
trans-1,2-Dichloroethene	ND	ug/L	1.0	1	01/13/16 18:	88 156-60-5		
trans-1,3-Dichloropropene Surrogates	ND	ug/L	20.0	1	01/13/16 18:	88 10061-02-6		
Dibromofluoromethane (S)	104	%	70-130	1	01/13/16 18:	88 1868-53-7		
4-Bromofluorobenzene (S)	98	%	70-130	1	01/13/16 18:	88 460-00-4		
Toluene-d8 (S)	99	%	70-130	1	01/13/16 18:3	88 2037-26-5		





Project: City of Rochester

Pace Project No.: 10335669

Date: 01/14/2016 04:23 PM

Sample: AS-Efflluent	Lab ID: 10	Lab ID: 10335669002		6 17:00	Received:	01/12/16 09:45	15 Matrix: Water		
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qua	
S24 Volatile Organics	Analytical Me	ethod: EPA 62	24						
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		01/14/16 13:40	630-20-6		
1,1,1-Trichloroethane	ND	ug/L	1.0	1		01/14/16 13:40	71-55-6		
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		01/14/16 13:40	79-34-5		
1,1,2-Trichloroethane	ND	ug/L	1.0	1		01/14/16 13:40	79-00-5		
1,1,2-Trichlorotrifluoroethane	ND	ug/L	5.0	1		01/14/16 13:40	76-13-1		
1,1-Dichloroethane	ND	ug/L	1.0	1		01/14/16 13:40	75-34-3		
,1-Dichloroethene	ND	ug/L	1.0	1		01/14/16 13:40	75-35-4		
1,1-Dichloropropene	ND	ug/L	1.0	1		01/14/16 13:40	563-58-6		
1,2,3-Trichlorobenzene	ND	ug/L	5.0	1		01/14/16 13:40	87-61-6		
1,2,3-Trichloropropane	ND	ug/L	1.0	1		01/14/16 13:40	96-18-4		
,2,4-Trichlorobenzene	ND	ug/L	5.0	1		01/14/16 13:40	120-82-1		
,2,4-Trimethylbenzene	ND	ug/L	1.0	1		01/14/16 13:40	95-63-6		
I,2-Dibromo-3-chloropropane	ND	ug/L	5.0	1		01/14/16 13:40			
,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		01/14/16 13:40			
,2-Dichlorobenzene	ND	ug/L	1.0	1		01/14/16 13:40			
,2-Dichloroethane	ND	ug/L	1.0	1		01/14/16 13:40			
,2-Dichloropropane	ND	ug/L	1.0	1		01/14/16 13:40			
,3,5-Trimethylbenzene	ND	ug/L	1.0	1		01/14/16 13:40			
,3-Dichlorobenzene	ND	ug/L	1.0	1		01/14/16 13:40			
,3-Dichloropropane	ND	ug/L	1.0	1		01/14/16 13:40			
,4-Dichlorobenzene	ND	ug/L ug/L	1.0	1		01/14/16 13:40			
,4-Dichloropropane	ND ND	•	1.0	1		01/14/16 13:40			
· ·	ND ND	ug/L	20.0	1		01/14/16 13:40			
-Butanone (MEK) -Chlorotoluene	ND ND	ug/L	1.0	1		01/14/16 13:40			
		ug/L		1					
-Chlorotoluene	ND	ug/L	1.0			01/14/16 13:40			
I-Methyl-2-pentanone (MIBK)	ND 56.3	ug/L	20.0	1 1		01/14/16 13:40			
Acetone	56.3	ug/L	20.0			01/14/16 13:40			
Allyl chloride	ND	ug/L	5.0	1		01/14/16 13:40			
Benzene	ND	ug/L	1.0	1		01/14/16 13:40			
Bromobenzene	ND	ug/L	1.0	1		01/14/16 13:40			
Bromochloromethane	ND	ug/L	1.0	1		01/14/16 13:40			
Bromodichloromethane	ND	ug/L	1.0	1		01/14/16 13:40			
Bromoform	ND	ug/L	5.0	1		01/14/16 13:40			
Bromomethane	ND	ug/L	5.0	1		01/14/16 13:40			
Carbon tetrachloride	ND	ug/L	1.0	1		01/14/16 13:40			
Chlorobenzene	ND	ug/L	1.0	1		01/14/16 13:40			
Chloroethane	ND	ug/L	1.0	1		01/14/16 13:40			
Chloroform	ND	ug/L	5.0	1		01/14/16 13:40	67-66-3		
Chloromethane	ND	ug/L	1.0	1		01/14/16 13:40	74-87-3		
Dibromochloromethane	ND	ug/L	5.0	1		01/14/16 13:40	124-48-1		
Dibromomethane	ND	ug/L	1.0	1		01/14/16 13:40	74-95-3		
Dichlorodifluoromethane	ND	ug/L	1.0	1		01/14/16 13:40	75-71-8		
Dichlorofluoromethane	ND	ug/L	1.0	1		01/14/16 13:40	75-43-4		
Diethyl ether (Ethyl ether)	ND	ug/L	5.0	1		01/14/16 13:40	60-29-7		
thylbenzene	ND	ug/L	1.0	1		01/14/16 13:40	100-41-4		
lexachloro-1,3-butadiene	ND	ug/L	5.0	1		01/14/16 13:40	87-68-3		
sopropylbenzene (Cumene)	ND	ug/L	1.0	1		01/14/16 13:40	98-82-8		



Project: City of Rochester

Pace Project No.: 10335669

Date: 01/14/2016 04:23 PM

Sample: AS-Efflluent	Lab ID: 10335669002		Collected: 01/11/1	6 17:00	Received: 01/12/16 09:45	Matrix: Water		
Parameters	Results	Units	Report Limit	DF	Prepared Analyzed	CAS No.	Qua	
624 Volatile Organics	Analytical Meth	nod: EPA 62	24					
Methyl-tert-butyl ether	ND	ug/L	1.0	1	01/14/16 13:4	0 1634-04-4		
Methylene Chloride	ND	ug/L	1.0	1	01/14/16 13:4	0 75-09-2		
Naphthalene	ND	ug/L	5.0	1	01/14/16 13:4	0 91-20-3		
Styrene	ND	ug/L	1.0	1	01/14/16 13:4	0 100-42-5		
Tetrachloroethene	ND	ug/L	1.0	1	01/14/16 13:4	0 127-18-4		
Tetrahydrofuran	ND	ug/L	5.0	1	01/14/16 13:4	0 109-99-9		
Toluene	ND	ug/L	1.0	1	01/14/16 13:4	0 108-88-3		
Trichloroethene	ND	ug/L	1.0	1	01/14/16 13:4	79-01-6		
Trichlorofluoromethane	ND	ug/L	1.0	1	01/14/16 13:4	75-69-4		
Vinyl chloride	ND	ug/L	1.0	1	01/14/16 13:4	0 75-01-4		
Xylene (Total)	ND	ug/L	3.0	1	01/14/16 13:4	0 1330-20-7		
cis-1,2-Dichloroethene	ND	ug/L	1.0	1	01/14/16 13:4	0 156-59-2		
cis-1,3-Dichloropropene	ND	ug/L	5.0	1	01/14/16 13:4	0 10061-01-5		
n-Butylbenzene	ND	ug/L	1.0	1	01/14/16 13:4	0 104-51-8		
n-Propylbenzene	ND	ug/L	1.0	1	01/14/16 13:4	0 103-65-1		
p-Isopropyltoluene	ND	ug/L	1.0	1	01/14/16 13:4	0 99-87-6		
sec-Butylbenzene	ND	ug/L	5.0	1	01/14/16 13:4	0 135-98-8		
tert-Butylbenzene	ND	ug/L	1.0	1	01/14/16 13:4	0 98-06-6		
trans-1,2-Dichloroethene	ND	ug/L	1.0	1	01/14/16 13:4	0 156-60-5		
trans-1,3-Dichloropropene Surrogates	ND	ug/L	20.0	1	01/14/16 13:4	0 10061-02-6		
Dibromofluoromethane (S)	106	%	70-130	1	01/14/16 13:4	0 1868-53-7		
4-Bromofluorobenzene (S)	100	%	70-130	1	01/14/16 13:4	0 460-00-4		
Toluene-d8 (S)	100	%	70-130	1	01/14/16 13:4	0 2037-26-5		



QUALITY CONTROL DATA

Project: City of Rochester

Pace Project No.: 10335669

QC Batch: MSV/31873 Analysis Method: EPA 624
QC Batch Method: EPA 624 Analysis Description: 624 MSV

Associated Lab Samples: 10335669001, 10335669002

METHOD BLANK: 1283100 Matrix: Water

Associated Lab Samples:

Date: 01/14/2016 04:23 PM

		Blank	Reporting		
Parameter	Units	Result	Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	1.0	01/13/16 14:54	
1,1,1-Trichloroethane	ug/L	ND	1.0	01/13/16 14:54	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	01/13/16 14:54	
1,1,2-Trichloroethane	ug/L	ND	1.0	01/13/16 14:54	
1,1,2-Trichlorotrifluoroethane	ug/L	ND	5.0	01/13/16 14:54	
1,1-Dichloroethane	ug/L	ND	1.0	01/13/16 14:54	
1,1-Dichloroethene	ug/L	ND	1.0	01/13/16 14:54	
1,1-Dichloropropene	ug/L	ND	1.0	01/13/16 14:54	
1,2,3-Trichlorobenzene	ug/L	ND	5.0	01/13/16 14:54	
1,2,3-Trichloropropane	ug/L	ND	1.0	01/13/16 14:54	
1,2,4-Trichlorobenzene	ug/L	ND	5.0	01/13/16 14:54	
1,2,4-Trimethylbenzene	ug/L	ND	1.0	01/13/16 14:54	
1,2-Dibromo-3-chloropropane	ug/L	ND	5.0	01/13/16 14:54	
1,2-Dibromoethane (EDB)	ug/L	ND	1.0	01/13/16 14:54	
1,2-Dichlorobenzene	ug/L	ND	1.0	01/13/16 14:54	
1,2-Dichloroethane	ug/L	ND	1.0	01/13/16 14:54	
1,2-Dichloropropane	ug/L	ND	1.0	01/13/16 14:54	
1,3,5-Trimethylbenzene	ug/L	ND	1.0	01/13/16 14:54	
1,3-Dichlorobenzene	ug/L	ND	1.0	01/13/16 14:54	
1,3-Dichloropropane	ug/L	ND	1.0	01/13/16 14:54	
1,4-Dichlorobenzene	ug/L	ND	1.0	01/13/16 14:54	
2,2-Dichloropropane	ug/L	ND	1.0	01/13/16 14:54	
2-Butanone (MEK)	ug/L	ND	20.0	01/13/16 14:54	
2-Chlorotoluene	ug/L	ND	1.0	01/13/16 14:54	
4-Chlorotoluene	ug/L	ND	1.0	01/13/16 14:54	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	5.0	01/13/16 14:54	
Acetone	ug/L	ND	20.0	01/13/16 14:54	
Allyl chloride	ug/L	ND	5.0	01/13/16 14:54	
Benzene	ug/L	ND	1.0	01/13/16 14:54	
Bromobenzene	ug/L	ND	1.0	01/13/16 14:54	
Bromochloromethane	ug/L	ND	1.0	01/13/16 14:54	
Bromodichloromethane	ug/L	ND	1.0	01/13/16 14:54	
Bromoform	ug/L	ND	1.0	01/13/16 14:54	
Bromomethane	ug/L	ND	5.0	01/13/16 14:54	
Carbon tetrachloride	ug/L	ND	1.0	01/13/16 14:54	
Chlorobenzene	ug/L	ND	1.0	01/13/16 14:54	
Chloroethane	ug/L	ND	1.0	01/13/16 14:54	
Chloroform	ug/L	ND	5.0	01/13/16 14:54	
Chloromethane	ug/L	ND	1.0	01/13/16 14:54	
cis-1,2-Dichloroethene	ug/L	ND	1.0	01/13/16 14:54	
cis-1,3-Dichloropropene	ug/L	ND	1.0	01/13/16 14:54	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.



QUALITY CONTROL DATA

Project: City of Rochester

Pace Project No.: 10335669

METHOD BLANK: 1283100 Matrix: Water

Associated Lab Samples:

Date: 01/14/2016 04:23 PM

		Blank	Reporting		
Parameter	Units	Result	Limit	Analyzed	Qualifiers
Dibromochloromethane	ug/L	ND	1.0	01/13/16 14:54	
Dibromomethane	ug/L	ND	1.0	01/13/16 14:54	
Dichlorodifluoromethane	ug/L	ND	1.0	01/13/16 14:54	
Dichlorofluoromethane	ug/L	ND	1.0	01/13/16 14:54	
Diethyl ether (Ethyl ether)	ug/L	ND	5.0	01/13/16 14:54	
Ethylbenzene	ug/L	ND	1.0	01/13/16 14:54	
Hexachloro-1,3-butadiene	ug/L	ND	5.0	01/13/16 14:54	
Isopropylbenzene (Cumene)	ug/L	ND	1.0	01/13/16 14:54	
Methyl-tert-butyl ether	ug/L	ND	1.0	01/13/16 14:54	
Methylene Chloride	ug/L	ND	1.0	01/13/16 14:54	
n-Butylbenzene	ug/L	ND	1.0	01/13/16 14:54	
n-Propylbenzene	ug/L	ND	1.0	01/13/16 14:54	
Naphthalene	ug/L	ND	5.0	01/13/16 14:54	
p-Isopropyltoluene	ug/L	ND	1.0	01/13/16 14:54	
sec-Butylbenzene	ug/L	ND	5.0	01/13/16 14:54	
Styrene	ug/L	ND	1.0	01/13/16 14:54	
tert-Butylbenzene	ug/L	ND	1.0	01/13/16 14:54	
Tetrachloroethene	ug/L	ND	1.0	01/13/16 14:54	
Tetrahydrofuran	ug/L	ND	5.0	01/13/16 14:54	
Toluene	ug/L	ND	1.0	01/13/16 14:54	
trans-1,2-Dichloroethene	ug/L	ND	1.0	01/13/16 14:54	
trans-1,3-Dichloropropene	ug/L	ND	1.0	01/13/16 14:54	
Trichloroethene	ug/L	ND	1.0	01/13/16 14:54	
Trichlorofluoromethane	ug/L	ND	1.0	01/13/16 14:54	
Vinyl chloride	ug/L	ND	1.0	01/13/16 14:54	
Xylene (Total)	ug/L	ND	3.0	01/13/16 14:54	
4-Bromofluorobenzene (S)	%	99	70-130	01/13/16 14:54	
Dibromofluoromethane (S)	%	102	70-130	01/13/16 14:54	
Toluene-d8 (S)	%	99	70-130	01/13/16 14:54	

LABORATORY CONTROL SAMPLE:	1283101					
		Spike	LCS	LCS	% Rec	
Parameter	Units	Conc.	Result	% Rec	Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	20	21.2	106	70-130	
1,1,2,2-Tetrachloroethane	ug/L	20	18.4	92	70-130	
1,1,2-Trichloroethane	ug/L	20	19.9	100	70-130	
1,1,2-Trichlorotrifluoroethane	ug/L	20	21.7	109	50-150	
1,1-Dichloroethane	ug/L	20	19.4	97	70-130	
1,1-Dichloroethene	ug/L	20	20.5	103	70-130	
1,2,4-Trichlorobenzene	ug/L	20	19.5	98	70-130	
1,2-Dibromo-3-chloropropane	ug/L	20	19.7	99	50-150	
1,2-Dibromoethane (EDB)	ug/L	20	19.6	98	70-130	
1,2-Dichlorobenzene	ug/L	20	21.1	105	70-130	
1,2-Dichloroethane	ug/L	20	20.2	101	70-131	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.



QUALITY CONTROL DATA

Project: City of Rochester

Pace Project No.: 10335669

Date: 01/14/2016 04:23 PM

LABORATORY CONTROL SAMPLE:	1283101					
		Spike	LCS	LCS	% Rec	
Parameter	Units	Conc.	Result	% Rec	Limits	Qualifiers
I,2-Dichloropropane	ug/L	20	19.7	99	70-130	
1,3-Dichlorobenzene	ug/L	20	20.8	104	70-130	
1,4-Dichlorobenzene	ug/L	20	21.8	109	70-130	
Benzene	ug/L	20	19.4	97	70-130	
Bromodichloromethane	ug/L	20	20.6	103	70-130	
Bromoform	ug/L	20	18.1	90	68-130	
Bromomethane	ug/L	20	16.4	82	38-137	
Carbon tetrachloride	ug/L	20	20.9	105	70-130	
Chlorobenzene	ug/L	20	20.9	104	70-130	
Chloroethane	ug/L	20	15.4	77	70-136	
Chloroform	ug/L	20	21.7	108	70-130	
Chloromethane	ug/L	20	18.8	94	48-144	
is-1,2-Dichloroethene	ug/L	20	19.6	98	70-130	
is-1,3-Dichloropropene	ug/L	20	20.5	103	70-130	
Dibromochloromethane	ug/L	20	19.4	97	70-130	
Pichlorodifluoromethane	ug/L	20	19.8	99	33-157	
Ethylbenzene	ug/L	20	21.1	105	70-132	
sopropylbenzene (Cumene)	ug/L	20	22.7	114	70-130	
Methyl-tert-butyl ether	ug/L	20	20.4	102	48-141	
Methylene Chloride	ug/L	20	18.3	92	70-130	
Styrene	ug/L	20	21.4	107	70-130	
etrachloroethene	ug/L	20	19.7	98	70-130	
oluene	ug/L	20	20.0	100	70-130	
rans-1,2-Dichloroethene	ug/L	20	20.3	102	70-130	
rans-1,3-Dichloropropene	ug/L	20	20.0	100	70-130	
richloroethene	ug/L	20	20.6	103	70-130	
Trichlorofluoromethane	ug/L	20	21.1	106	50-150	
'inyl chloride	ug/L	20	19.9	100	65-142	
(Ylene (Total)	ug/L	60	62.6	104	70-132	
1-Bromofluorobenzene (S)	%			106	70-130	
Dibromofluoromethane (S)	%			103	70-130	
Toluene-d8 (S)	%			97	70-130	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.



QUALIFIERS

Project: City of Rochester
Pace Project No.: 10335669

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

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.

PQL - Practical Quantitation Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

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

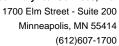
Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

LABORATORIES

Date: 01/14/2016 04:23 PM

PASI-G Pace Analytical Services - Green Bay





QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: City of Rochester

Pace Project No.: 10335669

Date: 01/14/2016 04:23 PM

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10335669001	AS-Inflluent	EPA 624	MSV/31873	_	
10335669002	AS-Efflluent	EPA 624	MSV/31873		

CHAIN-OF-CUSTODY / Analytical Request Document

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

Pace Analytical www.pacelabs.com

Pace Project No./ Lab I.D. (N/X) **DRINKING WATER** F-ALL-Q-020rev.07, 15-May-2007 SAMPLE CONDITIONS 980565 OTHER (N/X) Custody Sealed Cooler L Ice (Y/N) Received on GROUND WATER Residual Chlorine (Y/N) O° ni qmeT REGULATORY AGENCY RCRA 9.45 Requested Analysis Filtered (Y/N) TIME 5 Site Location STATE NPDES DATE UST description of the second Ö DATE Signed (MM/DD/YY): ACCEPTED BY / AFFILIATION 250000 h79 403 J tesT elevisnA J ÎN/ Other SEC 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. Methanol Preservatives Na₂S₂O₃ HOBN Attention: She Faren HCI Invoice Information: HNO³ Company Name: Manager: Pace Profile #: [⊅]OS^ZH 4.00 6 Pace Quote Reference: Pace Project Section C Unpreserved TIME Address: # OF CONTAINERS SAMPLER NAME AND SIGNATURE SIGNATURE of SAMPLER: PRINT Name of SAMPLER: 9 SAMPLE TEMP AT COLLECTION DATE Parel pacer 18 CALL CON kara Ana ana TIME COMPOSITE END/GRAB 乃っるかか DATE COLLECTED RELINQUISHED BY / AFFILIATION 4:00 2,00 TIME COMPOSITE START (In 126 Report To, M. Strulo DATE 4 Required Project Information: COPYTO: CUCKO Project Name: Ō D Purchase Order No.: SAMPLE TYPE (G=GRAB C=COMP) Project Number: (see valid codes to left) **AMATRIX CODE** ORIGINAL Š 굑꼭옥譥셨잖다 Matrix Codes Drinking Water Email IO: S / Common Stad Charles (Common Stad Charles) S / Common Stad Charles (Common Stad Charles (Common Stad Charles) S / Common Stad Charles (Common Stad Cha Waste Water Eng. Youngar Product Soil/Solid Oil Wipe Air Tissue Other 202 ADDITIONAL COMMENTS 300 かった へ (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE Requested Due Date/TAT: 🔰 🤵 SAMPLE ID Required Client Information Company Man Man Man Section A Required Client Information: Address: 42 W Blooms 100 Section D 6 9 Ξ 12 # MaTI ო 4 ĸ 9 8 Page 14 of 17



Document Name:

Sample Condition Upon Receipt Form

Document No.:

F-MN-L-213-rev.15

Document Revised: 05Jan2016 Page 1 of 1

Issuing Authority: Pace Minnesota Quality Office

Sample Condition

Client Name:

Project #: 10#: 10335669

I CINCIMATE GVIN	ronw	unte	ì l	MOIL TANDOOQ
	USPS		Client	100 March 1997 100 Ma
	Other:			
Tracking Number: 7821 4520 8039	other			10335669
		~~~~~		Optional: Proj. Due Date: Proj. Name:
ustody Seal on Cooler/Box Present? Yes No			act?	]Yes L_INO L
acking Material: Bubble Wrap Bubble Bags	Non	е 🔲	Other:	Temp Blank? Yes No
hermometer ☐ 151401163 ☐ B88A91216750 Used: ☐ 151401164 ☐ B88A01433100		e of Ice:	<b>₽</b> We	t Blue None Samples on ice, cooling process has beg
ooler Temp Read (°C): 1.2 Cooler Temp Cor	rected (°C)	: 1.	3	Biological Tissue Frozen? Yes No
mp should be above freezing to 6°C Correction Fact			Dat	e and Initials of Person Examining Contents: WIB 1 12/1
DA Regulated Soil (N/A, water sample)		ND 47 C	. 51 64	
d samples originate in a quarantine zone within the United S 5, NC, NM, NY, OK, OR, SC, TN, TX or WA (check maps)?	states: AL, A	λR, ΑΖ, C <i>i</i>	A, FL, GA, MYes	ID, LA. Did samples originate from a foreign source (internationally,  \bigcap No including Hawaii and Puerto Rico)? \bigcap Yes \bigcap N
	ulated Soil	Checkli	L	Q-338) and include with SCUR/COC paperwork.
				COMMENTS:
hain of Custody Present?	Yes	□No	□N/A	1.
hain of Custody Filled Out?	Yes	□No	□N/A	2.
hain of Custody Relinquished?	Yes	□No	□N/A	3.
ampler Name and/or Signature on COC?	Yes	No	□N/A	4.
amples Arrived within Hold Time?	✓ Yes □ vos	□No	□N/A	5. 6.
hort Hold Time Analysis (<72 hr)? ush Turn Around Time Requested?	Yes - ✓ Yes	No □No	N/A N/A	7.48 hours
ush Turn Arouna Time Requested?	Yes		IN/A □N/A	8.
prrect Containers Used?	Yes	□No		9.
-Pace Containers Used?	Yes	□No	□N/A	
ontainers Intact?	Ves	□No	□N/A	10.
iltered Volume Received for Dissolved Tests?	□Yes	□No	DATA	11. Note if sediment is visible in the dissolved container
ample Labels Match COC?	₽Ves	□No	□N/A	12.
-Includes Date/Time/ID/Analysis Matrix:				,
Il containers needing acid/base preservation have been				13. ☐HNO₃ ☐H₂SO₄ ☐NaOH ☐HCI
hecked? Il containers needing preservation are found to be in	Yes	□No	<b>□</b> N/A	Sample #
ompliance with EPA recommendation?				
HNO ₃ , H ₂ SO ₄ , HCl<2; NaOH >9 Sulfide, NaOH>12 Cyanide)	☐Yes	□No	N/A	Initial whon Lat # afadded
xceptions VOA Coliform, TOC, Oil and Grease, RO/8015 (water) DOC	<b>□</b> ¥€s	□No	□N/A	Initial when Lot # of added completed: preservative:
eadspace in VOA Vials ( >6mm)?	□Yes	No	□N/A	14.
rip Blank Present?	Yes	No	□N/A	15.
rip Blank Custody Seals Present?	∐Yes	□No	₽N/A	
ace Trip Blank Lot # (if purchased):				
CLIENT NOTIFICATION/RESOLUTION				Field Data Required? Yes No
Person Contacted:				Date/Time:
Comments/Resolution:	·			
		and the same of th		
	/ F	=	<del>- )</del>	( ) 2 2 3 1 1 1
Project Manager-Review.	/	$\omega u$	- /	Date: Len 18,0010

Page 15 of 17

## Chain of Custody

SW Kol 27042 17 Pace Analytigal www.pacelab@com

Cooler Temperature on Receipt	3 2		Transfers Released By		4 70	2 AS-Effluent	1 AS-Influent	Item Sample ID	Minneapolis, MN 55414 Phone (612)607-1700 Fax (612)607-6444	Oyeyemi Odujole Pace Analytical Services, Inc. 1700 Elm Street, Suite 200	Report To	Workorder: 10335669
n Receipt 1.5_°C   Custody Seal	1-13-11	- Machin Melle istoc	Date/Time Received By			1/02 PS 1/11/2016 17:00 10335669002	00   PS   1/11/2016 16:00   10335669001	Sample Collect Type Date/Time Lab ID			Subcontract To	Workorder Name: City of Rochester
Y or Received on Ice Y	Juhan Janumarane 1-13/100045		d By Date/Time			)2 Water 3	)1 Water 3 X	Matrix  HCL  VOC 624	4302 436 Preserved Containers	reen Bay eet		Owner Received Date:
or Samples Intact				Comments							Requested Analysis	1/12/2016 Results Requested By:
y or	3)						2-41/m/5	LAB USE ONLY				1/14/2016

^{***}In order to maintain client confidentiality, location/name of the sampling site, sampler's name and signature may not be provided on this COC document. This chain of custody is considered complete as is since this information is available in the owner laboratory.

### Pace Analytical*

### Sample Condition Upon Receipt

Pace Analytical Services, Inc. 1241 Bellevue Street, Suite 9 Green Bay, WI 54302

Client Name: Pace MN		Proj	ect #: WO#	: 40127042
Courier: Fed Ex F UPS F Client F P Tracking #: 9582910	ace Other: \under	Ho	-	
Custody Seal on Cooler/Box Present: 1 ye	c = no Socialista	<u>_</u>		2
Custody Seal on Samples Present:  yes	7 no Seals intai	ct: T yes	no L	
Packing Material:   Bubble Wrap / Bu		one F Other	r r	
Thermometer UsedS7-55	Type of Ice: Ne		7	
Cooler Temperature Uncorr: 1.5 /Corr:			is Frozen: Tyes	n ice, cooling process has begun
Temp Blank Present: 7 yes no			□ no	Person examining contents:
Temp should be above freezing to 6°C for all sample $\epsilon$ Frozen Biota Samples should be received $\leq$ 0°C.	except Biota.	Comments:	,	Date: 1-13-16
Chain of Custody Present:	Yes DNo DN/			
Chain of Custody Filled Out:	Yes 🗆 No 🗆 N/	<del></del>		
Chain of Custody Relinquished:	ØYes □No □N/			
Sampler Name & Signature on COC:	□Yes □No ☑N//			
Samples Arrived within Hold Time:	Yes ONO ON/			
- VOA Samples frozen upon receipt	□Yes □No			
Short Hold Time Analysis (<72hr):	□Yes ZNo □N/A	Date/Time:		
Rush Turn Around Time Requested:	ØYes □No □N/A			
Sufficient Volume:	Yes No NA			
Correct Containers Used:	ØYes □No □N/A			
-Pace Containers Used:	☐Yes ☐No ZÎN/A			
-Pace IR Containers Used:	1	1		
Containers Intact:		1		
Filtered volume received for Dissolved tests	ØYes □No □N/A			
	Yes No N/A			
Sample Labels match COC:	ØYes □No □N/A	12.		
-Includes date/time/ID/Analysis Matrix:	-M	ļ		
Non-Compliance noted in 13.)	□Yes □No ØN/A	13. TH	NO3   H2SO4	NaOH   NaOH +ZnAct
Il containers needing preservation are found to be in ompliance with EPA recommendation.		1		
HNO3, H2904 ≤2; NaOH+ZnAct ≥9, NaOH ≥12)	□Yes □No ☑N/A			
xceptions VOA coliform, TOC, TOX, TOH, &G, WIDROW, Phenolics, OTHER:	ZYes □No	Initial when completed	Lab Std #ID of preservative	Date/ Time:
leadspace in VOA Vials ( >6mm):	□Yes ØNo □N/A	14.		
rip Blank Present:	□Yes ZNo □N/A	<del></del>		
rip Blank Custody Seals Present	□Yes □No ØN/A			
ace Trip Blank Lot # (if purchased):	_			•
lient Notification/ Resolution:			If checked, see attache	ed form for additional comments
Person Contacted:Comments/ Resolution:	Date/1	ſime:		
Comments/ Nesolution;				
Decine 4 M				
Project Manager Review:	Management and a second as a s		Date:	1/13//6





January 14, 2016

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

RE: Project: City of Rochester

Pace Project No.: 10335670

### Dear Mr. Skramstad:

Enclosed are the analytical results for sample(s) received by the laboratory on January 12, 2016. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

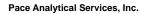
If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Oyeyemi Odujole oyeyemi.odujole@pacelabs.com Project Manager

**Enclosures** 





Pace Analytical www.pacelabs.com

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

### **CERTIFICATIONS**

Project: City of Rochester Pace Project No.: 10335670

**Green Bay Certification IDs** 

1241 Bellevue Street, Green Bay, WI 54302 Florida/NELAP Certification #: E87948 Illinois Certification #: 200050 Kentucky Certification #: 82 Louisiana Certification #: 04168 Minnesota Certification #: 055-999-334 Virginia VELAP ID: 460263

North Dakota Certification #: R-150 South Carolina Certification #: 83006001 Texas Certification #: T104704529-14-1 US Dept of Agriculture #: S-76505 Virginia VELAP Certification ID: 460263 Virginia VELAP ID: 460263 Wisconsin Certification #: 405132750

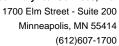


### **SAMPLE SUMMARY**

Project: City of Rochester

Pace Project No.: 10335670

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10335670001	DPE-1	Water	01/11/16 16:15	01/12/16 09:45
10335670002	DPE-2	Water	01/11/16 15:10	01/12/16 09:45
10335670003	DPE-3	Water	01/11/16 15:50	01/12/16 09:45
10335670004	DPE-4	Water	01/11/16 15:25	01/12/16 09:45
10335670005	DPE-5	Water	01/11/16 14:20	01/12/16 09:45
10335670006	DPE-6	Water	01/11/16 13:50	01/12/16 09:45
10335670007	DPE-7	Water	01/11/16 13:05	01/12/16 09:45
10335670008	DPE-8	Water	01/11/16 15:00	01/12/16 09:45
10335670009	MW-14	Water	01/11/16 13:25	01/12/16 09:45
10335670010	MW-15	Water	01/11/16 13:45	01/12/16 09:45
10335670011	MW-16	Water	01/11/16 14:35	01/12/16 09:45
10335670012	MW-17	Water	01/11/16 17:45	01/12/16 09:45
10335670013	MW-18	Water	01/11/16 17:55	01/12/16 09:45
10335670014	MW-19	Water	01/11/16 12:40	01/12/16 09:45
10335670015	MW-20	Water	01/11/16 14:15	01/12/16 09:45
10335670016	TRIP BLANK	Water	01/11/16 00:00	01/12/16 09:45





### **SAMPLE ANALYTE COUNT**

Project: City of Rochester

Pace Project No.: 10335670

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
10335670001	DPE-1	EPA 8260	LAP	70	PASI-G
10335670002	DPE-2	EPA 8260	LAP	70	PASI-G
10335670003	DPE-3	EPA 8260	LAP	70	PASI-G
10335670004	DPE-4	EPA 8260	LAP	70	PASI-G
10335670005	DPE-5	EPA 8260	LAP	70	PASI-G
10335670006	DPE-6	EPA 8260	LAP	70	PASI-G
10335670007	DPE-7	EPA 8260	LAP	70	PASI-G
10335670008	DPE-8	EPA 8260	LAP	70	PASI-G
10335670009	MW-14	EPA 8260	LAP	70	PASI-G
10335670010	MW-15	EPA 8260	LAP	70	PASI-G
10335670011	MW-16	EPA 8260	LAP	70	PASI-G
10335670012	MW-17	EPA 8260	LAP	70	PASI-G
10335670013	MW-18	EPA 8260	LAP	70	PASI-G
10335670014	MW-19	EPA 8260	LAP	70	PASI-G
10335670015	MW-20	EPA 8260	LAP	70	PASI-G
10335670016	TRIP BLANK	EPA 8260	LAP	70	PASI-G



### **ANALYTICAL RESULTS**

Project: City of Rochester

Pace Project No.: 10335670

Date: 01/14/2016 04:23 PM

Sample: DPE-1	Lab ID: 103	35670001	Collected: 01/11/1	6 16:15	Received:	01/12/16 09:45	Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qua
8260 MSV	Analytical Met	nod: EPA 82	260					
1,1,1,2-Tetrachloroethane	ND	ug/L	10.0	10		01/14/16 11:1	1 630-20-6	
1,1,1-Trichloroethane	ND	ug/L	10.0	10		01/14/16 11:1	1 71-55-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	10.0	10		01/14/16 11:1	1 79-34-5	
1,1,2-Trichloroethane	ND	ug/L	10.0	10		01/14/16 11:1	1 79-00-5	
1,1,2-Trichlorotrifluoroethane	71.4	ug/L	50.0	10		01/14/16 11:1	1 76-13-1	
1,1-Dichloroethane	ND	ug/L	10.0	10		01/14/16 11:1	1 75-34-3	
1,1-Dichloroethene	ND	ug/L	10.0	10		01/14/16 11:1	1 75-35-4	
1,1-Dichloropropene	ND	ug/L	10.0	10		01/14/16 11:1	1 563-58-6	
1,2,3-Trichlorobenzene	ND	ug/L	50.0	10		01/14/16 11:1	1 87-61-6	
1,2,3-Trichloropropane	ND	ug/L	10.0	10		01/14/16 11:1	1 96-18-4	
1,2,4-Trichlorobenzene	ND	ug/L	50.0	10		01/14/16 11:1		
1,2,4-Trimethylbenzene	ND	ug/L	10.0	10		01/14/16 11:1		
1,2-Dibromo-3-chloropropane	ND	ug/L	50.0	10		01/14/16 11:1		
1,2-Dibromoethane (EDB)	ND	ug/L	10.0	10		01/14/16 11:1		
1,2-Dichlorobenzene	ND	ug/L	10.0	10		01/14/16 11:1		
1,2-Dichloroethane	ND	ug/L	10.0	10		01/14/16 11:1		
1,2-Dichloropropane	ND	ug/L	10.0	10		01/14/16 11:1		
1,3,5-Trimethylbenzene	ND	ug/L	10.0	10		01/14/16 11:1		
,3-Dichlorobenzene	ND	ug/L	10.0	10		01/14/16 11:1		
1,3-Dichloropropane	ND	ug/L ug/L	10.0	10		01/14/16 11:1		
,,3-Dichloropropane	ND	-	10.0	10		01/14/16 11:1		
2,2-Dichloropropane	ND ND	ug/L ug/L	10.0	10		01/14/16 11:1		
2-Butanone (MEK)	ND	ug/L ug/L	200	10		01/14/16 11:1		
2-Chlorotoluene	ND ND	_	10.0	10		01/14/16 11:1		
		ug/L						
4-Chlorotoluene	ND	ug/L	10.0	10		01/14/16 11:1		
4-Methyl-2-pentanone (MIBK)	ND	ug/L	200	10		01/14/16 11:1		
Acetone	ND	ug/L	200	10		01/14/16 11:1		
Allyl chloride	ND	ug/L	50.0	10		01/14/16 11:1		
Benzene	ND	ug/L	10.0	10		01/14/16 11:1		
Bromobenzene	ND	ug/L	10.0	10		01/14/16 11:1		
Bromochloromethane	ND	ug/L	10.0	10		01/14/16 11:1		
Bromodichloromethane	ND	ug/L	10.0	10		01/14/16 11:1		
Bromoform .	ND	ug/L	50.0	10		01/14/16 11:1		
Bromomethane	ND	ug/L	50.0	10		01/14/16 11:1		
Carbon tetrachloride	ND	ug/L	10.0	10		01/14/16 11:1	1 56-23-5	
Chlorobenzene	ND	ug/L	10.0	10		01/14/16 11:1		
Chloroethane	ND	ug/L	10.0	10		01/14/16 11:1		
Chloroform	ND	ug/L	50.0	10		01/14/16 11:1	1 67-66-3	
Chloromethane	ND	ug/L	10.0	10		01/14/16 11:1	1 74-87-3	
Dibromochloromethane	ND	ug/L	50.0	10		01/14/16 11:1	1 124-48-1	
Dibromomethane	ND	ug/L	10.0	10		01/14/16 11:1	1 74-95-3	
Dichlorodifluoromethane	ND	ug/L	10.0	10		01/14/16 11:1	1 75-71-8	
Dichlorofluoromethane	ND	ug/L	10.0	10		01/14/16 11:1		
Diethyl ether (Ethyl ether)	ND	ug/L	50.0	10		01/14/16 11:1 ⁻	1 60-29-7	
Ethylbenzene	ND	ug/L	10.0	10		01/14/16 11:1	1 100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	50.0	10		01/14/16 11:1		
sopropylbenzene (Cumene)	ND	ug/L	10.0	10		01/14/16 11:1	1 98-82-8	



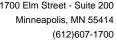


Project: City of Rochester

Pace Project No.: 10335670

Date: 01/14/2016 04:23 PM

Sample: DPE-1	Lab ID: 103	35670001	Collected: 01/11/1	6 16:15	Received: 01/12/16 09:45	Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared Analyzed	CAS No.	Qua
8260 MSV	Analytical Meth	nod: EPA 82	260				
Methyl-tert-butyl ether	ND	ug/L	10.0	10	01/14/16 11:11	1634-04-4	
Methylene Chloride	ND	ug/L	10.0	10	01/14/16 11:11	75-09-2	
Naphthalene	ND	ug/L	50.0	10	01/14/16 11:11	91-20-3	
Styrene	ND	ug/L	10.0	10	01/14/16 11:11	100-42-5	
Tetrachloroethene	1270	ug/L	10.0	10	01/14/16 11:11	127-18-4	
Tetrahydrofuran	ND	ug/L	50.0	10	01/14/16 11:11	109-99-9	
Toluene	ND	ug/L	10.0	10	01/14/16 11:11	108-88-3	
Trichloroethene	ND	ug/L	10.0	10	01/14/16 11:11	79-01-6	
Trichlorofluoromethane	ND	ug/L	10.0	10	01/14/16 11:11	75-69-4	
Vinyl chloride	ND	ug/L	10.0	10	01/14/16 11:11	75-01-4	
Xylene (Total)	ND	ug/L	30.0	10	01/14/16 11:11	1330-20-7	
cis-1,2-Dichloroethene	ND	ug/L	10.0	10	01/14/16 11:11	156-59-2	
cis-1,3-Dichloropropene	ND	ug/L	50.0	10	01/14/16 11:11	10061-01-5	
n-Butylbenzene	ND	ug/L	10.0	10	01/14/16 11:11	104-51-8	
n-Propylbenzene	ND	ug/L	10.0	10	01/14/16 11:11	103-65-1	
p-Isopropyltoluene	ND	ug/L	10.0	10	01/14/16 11:11	99-87-6	
sec-Butylbenzene	ND	ug/L	50.0	10	01/14/16 11:11	135-98-8	
tert-Butylbenzene	ND	ug/L	10.0	10	01/14/16 11:11	98-06-6	
trans-1,2-Dichloroethene	ND	ug/L	10.0	10	01/14/16 11:11	156-60-5	
trans-1,3-Dichloropropene	ND	ug/L	200	10	01/14/16 11:11	10061-02-6	
Surrogates		-					
4-Bromofluorobenzene (S)	98	%	70-130	10	01/14/16 11:11	460-00-4	
Dibromofluoromethane (S)	106	%	70-130	10	01/14/16 11:11	1868-53-7	
Toluene-d8 (S)	97	%	70-130	10	01/14/16 11:11	2037-26-5	





Project: City of Rochester

Pace Project No.: 10335670

Date: 01/14/2016 04:23 PM

Sample: DPE-2	Lab ID: 10	335670002	Collected: 01/11/1	6 15:10	Received:	01/12/16 09:45	Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qua
3260 MSV	Analytical Me	ethod: EPA 82	260					
1,1,1,2-Tetrachloroethane	ND	ug/L	10.0	10		01/14/16 10:48	3 630-20-6	
1,1,1-Trichloroethane	ND	ug/L	10.0	10		01/14/16 10:48	3 71-55-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	10.0	10		01/14/16 10:48	3 79-34-5	
1,1,2-Trichloroethane	ND	ug/L	10.0	10		01/14/16 10:48	3 79-00-5	
1,1,2-Trichlorotrifluoroethane	72.1	ug/L	50.0	10		01/14/16 10:48	3 76-13-1	
1,1-Dichloroethane	ND	ug/L	10.0	10		01/14/16 10:48	3 75-34-3	
,1-Dichloroethene	ND	ug/L	10.0	10		01/14/16 10:48	3 75-35-4	
1,1-Dichloropropene	ND	ug/L	10.0	10		01/14/16 10:48	3 563-58-6	
1,2,3-Trichlorobenzene	ND	ug/L	50.0	10		01/14/16 10:48	87-61-6	
1,2,3-Trichloropropane	ND	ug/L	10.0	10		01/14/16 10:48	3 96-18-4	
I,2,4-Trichlorobenzene	ND	ug/L	50.0	10		01/14/16 10:48	3 120-82-1	
,2,4-Trimethylbenzene	ND	ug/L	10.0	10		01/14/16 10:48	3 95-63-6	
I,2-Dibromo-3-chloropropane	ND	ug/L	50.0	10		01/14/16 10:48		
,2-Dibromoethane (EDB)	ND	ug/L	10.0	10		01/14/16 10:48		
,2-Dichlorobenzene	ND	ug/L	10.0	10		01/14/16 10:48		
.2-Dichloroethane	ND	ug/L	10.0	10		01/14/16 10:48		
,2-Dichloropropane	ND	ug/L	10.0	10		01/14/16 10:48		
,3,5-Trimethylbenzene	ND	ug/L	10.0	10		01/14/16 10:48		
,3-Dichlorobenzene	ND	ug/L	10.0	10		01/14/16 10:48		
,3-Dichloropropane	ND ND	ug/L ug/L	10.0	10		01/14/16 10:48		
,4-Dichlorobenzene	ND ND		10.0	10		01/14/16 10:48		
	ND ND	ug/L	10.0	10		01/14/16 10:48		
2,2-Dichloropropane		ug/L						
-Butanone (MEK)	ND	ug/L	200	10		01/14/16 10:48		
2-Chlorotoluene	ND	ug/L	10.0	10		01/14/16 10:48		
-Chlorotoluene	ND	ug/L	10.0	10		01/14/16 10:48		
I-Methyl-2-pentanone (MIBK)	ND	ug/L	200	10		01/14/16 10:48		
Acetone	ND	ug/L	200	10		01/14/16 10:48		
allyl chloride	ND	ug/L	50.0	10		01/14/16 10:48		
Benzene	ND	ug/L	10.0	10		01/14/16 10:48		
Bromobenzene	ND	ug/L	10.0	10		01/14/16 10:48		
Bromochloromethane	ND	ug/L	10.0	10		01/14/16 10:48		
Bromodichloromethane	ND	ug/L	10.0	10		01/14/16 10:48		
Bromoform	ND	ug/L	50.0	10		01/14/16 10:48		
Bromomethane	ND	ug/L	50.0	10		01/14/16 10:48		
Carbon tetrachloride	ND	ug/L	10.0	10		01/14/16 10:48		
Chlorobenzene	ND	ug/L	10.0	10		01/14/16 10:48	3 108-90-7	
Chloroethane	ND	ug/L	10.0	10		01/14/16 10:48		
Chloroform	ND	ug/L	50.0	10		01/14/16 10:48	3 67-66-3	
Chloromethane	ND	ug/L	10.0	10		01/14/16 10:48	3 74-87-3	
Dibromochloromethane	ND	ug/L	50.0	10		01/14/16 10:48	3 124-48-1	
Dibromomethane	ND	ug/L	10.0	10		01/14/16 10:48	3 74-95-3	
Dichlorodifluoromethane	ND	ug/L	10.0	10		01/14/16 10:48	3 75-71-8	
Dichlorofluoromethane	ND	ug/L	10.0	10		01/14/16 10:48	3 75-43-4	
Diethyl ether (Ethyl ether)	ND	ug/L	50.0	10		01/14/16 10:48	3 60-29-7	
Ethylbenzene	ND	ug/L	10.0	10		01/14/16 10:48	3 100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	50.0	10		01/14/16 10:48	87-68-3	
sopropylbenzene (Cumene)	ND	ug/L	10.0	10		01/14/16 10:48		

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



### **ANALYTICAL RESULTS**

Project: City of Rochester

Pace Project No.: 10335670

Date: 01/14/2016 04:23 PM

Sample: DPE-2	Lab ID: 103	35670002	Collected: 01/11/1	6 15:10	Received: 01/12/16 09:45	Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared Analyzed	CAS No.	Qua
8260 MSV	Analytical Meth	od: EPA 82	260				
Methyl-tert-butyl ether	ND	ug/L	10.0	10	01/14/16 10:4	8 1634-04-4	
Methylene Chloride	ND	ug/L	10.0	10	01/14/16 10:4	8 75-09-2	
Naphthalene	ND	ug/L	50.0	10	01/14/16 10:4	8 91-20-3	
Styrene	ND	ug/L	10.0	10	01/14/16 10:4	8 100-42-5	
Tetrachloroethene	1280	ug/L	10.0	10	01/14/16 10:4	8 127-18-4	
Tetrahydrofuran	ND	ug/L	50.0	10	01/14/16 10:4	8 109-99-9	
Toluene	ND	ug/L	10.0	10	01/14/16 10:4	8 108-88-3	
Trichloroethene	ND	ug/L	10.0	10	01/14/16 10:4	8 79-01-6	
Trichlorofluoromethane	ND	ug/L	10.0	10	01/14/16 10:4	8 75-69-4	
Vinyl chloride	ND	ug/L	10.0	10	01/14/16 10:4	8 75-01-4	
Xylene (Total)	ND	ug/L	30.0	10	01/14/16 10:4	8 1330-20-7	
cis-1,2-Dichloroethene	ND	ug/L	10.0	10	01/14/16 10:4	8 156-59-2	
cis-1,3-Dichloropropene	ND	ug/L	50.0	10	01/14/16 10:4	8 10061-01-5	
n-Butylbenzene	ND	ug/L	10.0	10	01/14/16 10:4	8 104-51-8	
n-Propylbenzene	ND	ug/L	10.0	10	01/14/16 10:4	8 103-65-1	
p-Isopropyltoluene	ND	ug/L	10.0	10	01/14/16 10:4	8 99-87-6	
sec-Butylbenzene	ND	ug/L	50.0	10	01/14/16 10:4	8 135-98-8	
tert-Butylbenzene	ND	ug/L	10.0	10	01/14/16 10:4	8 98-06-6	
trans-1,2-Dichloroethene	ND	ug/L	10.0	10	01/14/16 10:4	8 156-60-5	
trans-1,3-Dichloropropene	ND	ug/L	200	10	01/14/16 10:4	8 10061-02-6	
Surrogates							
4-Bromofluorobenzene (S)	100	%	70-130	10	01/14/16 10:4	8 460-00-4	
Dibromofluoromethane (S)	105	%	70-130	10	01/14/16 10:4	8 1868-53-7	
Toluene-d8 (S)	98	%	70-130	10	01/14/16 10:4	8 2037-26-5	



### **ANALYTICAL RESULTS**

Project: City of Rochester

Pace Project No.: 10335670

Date: 01/14/2016 04:23 PM

Sample: DPE-3	Lab ID: 103	35670003	Collected: 01/11/1	6 15:50	Received:	01/12/16 09:45	Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qua
8260 MSV	Analytical Met	hod: EPA 82	260					
1,1,1,2-Tetrachloroethane	ND	ug/L	10.0	10		01/14/16 11:3:	3 630-20-6	
1,1,1-Trichloroethane	ND	ug/L	10.0	10		01/14/16 11:33	3 71-55-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	10.0	10		01/14/16 11:33	3 79-34-5	
1,1,2-Trichloroethane	ND	ug/L	10.0	10		01/14/16 11:33	3 79-00-5	
1,1,2-Trichlorotrifluoroethane	105	ug/L	50.0	10		01/14/16 11:3	3 76-13-1	
1,1-Dichloroethane	ND	ug/L	10.0	10		01/14/16 11:3	3 75-34-3	
1,1-Dichloroethene	ND	ug/L	10.0	10		01/14/16 11:3	3 75-35-4	
1,1-Dichloropropene	ND	ug/L	10.0	10		01/14/16 11:33	3 563-58-6	
1,2,3-Trichlorobenzene	ND	ug/L	50.0	10		01/14/16 11:33	3 87-61-6	
1,2,3-Trichloropropane	ND	ug/L	10.0	10		01/14/16 11:33		
1,2,4-Trichlorobenzene	ND	ug/L	50.0	10		01/14/16 11:3		
1,2,4-Trimethylbenzene	ND	ug/L	10.0	10		01/14/16 11:3		
1,2-Dibromo-3-chloropropane	ND	ug/L	50.0	10		01/14/16 11:3		
1,2-Dibromoethane (EDB)	ND	ug/L	10.0	10		01/14/16 11:3:		
1,2-Dichlorobenzene	ND	ug/L	10.0	10		01/14/16 11:3		
1,2-Dichloroethane	ND	ug/L	10.0	10		01/14/16 11:3		
1,2-Dichloropropane	ND	ug/L	10.0	10		01/14/16 11:3		
1,3,5-Trimethylbenzene	ND	ug/L	10.0	10		01/14/16 11:3:		
1,3-Dichlorobenzene	ND ND	ug/L	10.0	10		01/14/16 11:3:		
	ND ND	-	10.0	10		01/14/16 11:3:		
1,3-Dichloropropane		ug/L						
1,4-Dichlorobenzene	ND	ug/L	10.0	10		01/14/16 11:3:		
2,2-Dichloropropane	ND	ug/L	10.0	10		01/14/16 11:3:		
2-Butanone (MEK)	ND	ug/L	200	10		01/14/16 11:3:		
2-Chlorotoluene	ND	ug/L	10.0	10		01/14/16 11:3:		
4-Chlorotoluene	ND	ug/L	10.0	10		01/14/16 11:33		
4-Methyl-2-pentanone (MIBK)	ND	ug/L	200	10		01/14/16 11:3:		
Acetone	ND	ug/L	200	10		01/14/16 11:3:		
Allyl chloride	ND	ug/L	50.0	10		01/14/16 11:3:		
Benzene	ND	ug/L	10.0	10		01/14/16 11:3		
Bromobenzene	ND	ug/L	10.0	10		01/14/16 11:3		
Bromochloromethane	ND	ug/L	10.0	10		01/14/16 11:3		
Bromodichloromethane	ND	ug/L	10.0	10		01/14/16 11:3	3 75-27-4	
Bromoform	ND	ug/L	50.0	10		01/14/16 11:3		
Bromomethane	ND	ug/L	50.0	10		01/14/16 11:3	3 74-83-9	
Carbon tetrachloride	ND	ug/L	10.0	10		01/14/16 11:3	3 56-23-5	
Chlorobenzene	ND	ug/L	10.0	10		01/14/16 11:33	3 108-90-7	
Chloroethane	ND	ug/L	10.0	10		01/14/16 11:33	3 75-00-3	
Chloroform	ND	ug/L	50.0	10		01/14/16 11:3	3 67-66-3	
Chloromethane	ND	ug/L	10.0	10		01/14/16 11:3	3 74-87-3	
Dibromochloromethane	ND	ug/L	50.0	10		01/14/16 11:3	3 124-48-1	
Dibromomethane	ND	ug/L	10.0	10		01/14/16 11:33		
Dichlorodifluoromethane	ND	ug/L	10.0	10		01/14/16 11:33		
Dichlorofluoromethane	ND	ug/L	10.0	10		01/14/16 11:33		
Diethyl ether (Ethyl ether)	ND	ug/L	50.0	10		01/14/16 11:3		
Ethylbenzene	ND	ug/L	10.0	10		01/14/16 11:3		
Hexachloro-1,3-butadiene	ND	ug/L	50.0	10		01/14/16 11:3		
Isopropylbenzene (Cumene)	ND ND	ug/L	10.0	10		01/14/16 11:3:		



Project: City of Rochester

Pace Project No.: 10335670

Date: 01/14/2016 04:23 PM

Sample: DPE-3	Lab ID: 103	35670003	Collected: 01/11/1	6 15:50	Received: 01/12/16 09:45	Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared Analyzed	CAS No.	Qua
8260 MSV	Analytical Meth	nod: EPA 82	260				
Methyl-tert-butyl ether	ND	ug/L	10.0	10	01/14/16 11:3	3 1634-04-4	
Methylene Chloride	ND	ug/L	10.0	10	01/14/16 11:3	3 75-09-2	
Naphthalene	ND	ug/L	50.0	10	01/14/16 11:3	3 91-20-3	
Styrene	ND	ug/L	10.0	10	01/14/16 11:3	3 100-42-5	
Tetrachloroethene	2960	ug/L	10.0	10	01/14/16 11:3	3 127-18-4	
Tetrahydrofuran	ND	ug/L	50.0	10	01/14/16 11:3	3 109-99-9	
Toluene	ND	ug/L	10.0	10	01/14/16 11:3	3 108-88-3	
Trichloroethene	ND	ug/L	10.0	10	01/14/16 11:3	3 79-01-6	
Trichlorofluoromethane	ND	ug/L	10.0	10	01/14/16 11:3	3 75-69-4	
Vinyl chloride	ND	ug/L	10.0	10	01/14/16 11:3	3 75-01-4	
Xylene (Total)	ND	ug/L	30.0	10	01/14/16 11:3	3 1330-20-7	
cis-1,2-Dichloroethene	ND	ug/L	10.0	10	01/14/16 11:3	3 156-59-2	
cis-1,3-Dichloropropene	ND	ug/L	50.0	10	01/14/16 11:3	3 10061-01-5	
n-Butylbenzene	ND	ug/L	10.0	10	01/14/16 11:3	3 104-51-8	
n-Propylbenzene	ND	ug/L	10.0	10	01/14/16 11:3	3 103-65-1	
p-Isopropyltoluene	ND	ug/L	10.0	10	01/14/16 11:3	3 99-87-6	
sec-Butylbenzene	ND	ug/L	50.0	10	01/14/16 11:3	3 135-98-8	
tert-Butylbenzene	ND	ug/L	10.0	10	01/14/16 11:3	3 98-06-6	
trans-1,2-Dichloroethene	ND	ug/L	10.0	10	01/14/16 11:3	3 156-60-5	
trans-1,3-Dichloropropene <b>Surrogates</b>	ND	ug/L	200	10	01/14/16 11:3	3 10061-02-6	
4-Bromofluorobenzene (S)	96	%	70-130	10	01/14/16 11:3	3 460-00-4	
Dibromofluoromethane (S)	102	%	70-130	10	01/14/16 11:3	3 1868-53-7	
Toluene-d8 (S)	101	%	70-130	10	01/14/16 11:3	3 2037-26-5	



### **ANALYTICAL RESULTS**

Project: City of Rochester

Pace Project No.: 10335670

Date: 01/14/2016 04:23 PM

Sample: DPE-4	Lab ID: 103	35670004	Collected: 01/11/1	6 15:25	Received: (	01/12/16 09:45	Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Met	hod: EPA 82	260					
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	5		01/14/16 11:56	630-20-6	
1,1,1-Trichloroethane	ND	ug/L	5.0	5		01/14/16 11:56	71-55-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	5		01/14/16 11:56	79-34-5	
1,1,2-Trichloroethane	ND	ug/L	5.0	5		01/14/16 11:56	79-00-5	
1,1,2-Trichlorotrifluoroethane	47.9	ug/L	25.0	5		01/14/16 11:56	6 76-13-1	
1,1-Dichloroethane	ND	ug/L	5.0	5		01/14/16 11:56	75-34-3	
1,1-Dichloroethene	ND	ug/L	5.0	5		01/14/16 11:56	75-35-4	
1,1-Dichloropropene	ND	ug/L	5.0	5		01/14/16 11:56	563-58-6	
1,2,3-Trichlorobenzene	ND	ug/L	25.0	5		01/14/16 11:56	87-61-6	
1,2,3-Trichloropropane	ND	ug/L	5.0	5		01/14/16 11:56	96-18-4	
1,2,4-Trichlorobenzene	ND	ug/L	25.0	5		01/14/16 11:56		
1,2,4-Trimethylbenzene	ND	ug/L	5.0	5		01/14/16 11:56		
1,2-Dibromo-3-chloropropane	ND	ug/L	25.0	5		01/14/16 11:56		
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	5		01/14/16 11:56		
1,2-Dichlorobenzene	ND	ug/L	5.0	5		01/14/16 11:56		
1,2-Dichloroethane	ND	ug/L	5.0	5		01/14/16 11:56		
1,2-Dichloropropane	ND ND	ug/L	5.0	5		01/14/16 11:56		
1,3,5-Trimethylbenzene	ND ND	ug/L	5.0	5		01/14/16 11:56		
•	ND ND	-	5.0	5		01/14/16 11:56		
1,3-Dichlorobenzene		ug/L		5 5				
1,3-Dichloropropane	ND	ug/L	5.0			01/14/16 11:56		
1,4-Dichlorobenzene	ND	ug/L	5.0	5		01/14/16 11:56		
2,2-Dichloropropane	ND	ug/L	5.0	5		01/14/16 11:56		
2-Butanone (MEK)	ND	ug/L	100	5		01/14/16 11:56		
2-Chlorotoluene	ND	ug/L	5.0	5		01/14/16 11:56		
4-Chlorotoluene	ND	ug/L	5.0	5		01/14/16 11:56		
4-Methyl-2-pentanone (MIBK)	ND	ug/L	100	5		01/14/16 11:56		
Acetone	ND	ug/L	100	5		01/14/16 11:56		
Allyl chloride	ND	ug/L	25.0	5		01/14/16 11:56		
Benzene	ND	ug/L	5.0	5		01/14/16 11:56		
Bromobenzene	ND	ug/L	5.0	5		01/14/16 11:56	108-86-1	
Bromochloromethane	ND	ug/L	5.0	5		01/14/16 11:56	3 74-97-5	
Bromodichloromethane	ND	ug/L	5.0	5		01/14/16 11:56	5 75-27-4	
Bromoform	ND	ug/L	25.0	5		01/14/16 11:56	75-25-2	
Bromomethane	ND	ug/L	25.0	5		01/14/16 11:56	74-83-9	
Carbon tetrachloride	ND	ug/L	5.0	5		01/14/16 11:56	56-23-5	
Chlorobenzene	ND	ug/L	5.0	5		01/14/16 11:56	108-90-7	
Chloroethane	ND	ug/L	5.0	5		01/14/16 11:56	75-00-3	
Chloroform	ND	ug/L	25.0	5		01/14/16 11:56	67-66-3	
Chloromethane	ND	ug/L	5.0	5		01/14/16 11:56	74-87-3	
Dibromochloromethane	ND	ug/L	25.0	5		01/14/16 11:56	3 124-48-1	
Dibromomethane	ND	ug/L	5.0	5		01/14/16 11:56		
Dichlorodifluoromethane	ND	ug/L	5.0	5		01/14/16 11:56	3 75-71-8	
Dichlorofluoromethane	ND	ug/L	5.0	5		01/14/16 11:56		
Diethyl ether (Ethyl ether)	ND	ug/L	25.0	5		01/14/16 11:56		
Ethylbenzene	ND	ug/L	5.0	5		01/14/16 11:56		
Hexachloro-1,3-butadiene	ND	ug/L	25.0	5		01/14/16 11:56		
Isopropylbenzene (Cumene)	ND ND	ug/L	5.0	5		01/14/16 11:56		



Project: City of Rochester

Pace Project No.: 10335670

Date: 01/14/2016 04:23 PM

Sample: DPE-4	Lab ID: 103	35670004	Collected: 01/11/1	6 15:25	Received: 01/12/16 09:45	Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared Analyzed	CAS No.	Qua
8260 MSV	Analytical Meth	nod: EPA 82	260				
Methyl-tert-butyl ether	ND	ug/L	5.0	5	01/14/16 11:5	6 1634-04-4	
Methylene Chloride	ND	ug/L	5.0	5	01/14/16 11:5	6 75-09-2	
Naphthalene	ND	ug/L	25.0	5	01/14/16 11:5	91-20-3	
Styrene	ND	ug/L	5.0	5	01/14/16 11:5	6 100-42-5	
Tetrachloroethene	1040	ug/L	5.0	5	01/14/16 11:5	6 127-18-4	
Tetrahydrofuran	ND	ug/L	25.0	5	01/14/16 11:5	6 109-99-9	
Toluene	ND	ug/L	5.0	5	01/14/16 11:5	6 108-88-3	
Trichloroethene	ND	ug/L	5.0	5	01/14/16 11:5	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	5	01/14/16 11:5	5 75-69-4	
Vinyl chloride	ND	ug/L	5.0	5	01/14/16 11:5	6 75-01-4	
Xylene (Total)	ND	ug/L	15.0	5	01/14/16 11:50	6 1330-20-7	
cis-1,2-Dichloroethene	ND	ug/L	5.0	5	01/14/16 11:5	5 156-59-2	
cis-1,3-Dichloropropene	ND	ug/L	25.0	5	01/14/16 11:5	6 10061-01-5	
n-Butylbenzene	ND	ug/L	5.0	5	01/14/16 11:5	6 104-51-8	
n-Propylbenzene	ND	ug/L	5.0	5	01/14/16 11:50	5 103-65-1	
p-lsopropyltoluene	ND	ug/L	5.0	5	01/14/16 11:50	6 99-87-6	
sec-Butylbenzene	ND	ug/L	25.0	5	01/14/16 11:5	6 135-98-8	
tert-Butylbenzene	ND	ug/L	5.0	5	01/14/16 11:50	6 98-06-6	
trans-1,2-Dichloroethene	ND	ug/L	5.0	5	01/14/16 11:50	6 156-60-5	
trans-1,3-Dichloropropene	ND	ug/L	100	5	01/14/16 11:50	6 10061-02-6	
Surrogates		-					
4-Bromofluorobenzene (S)	98	%	70-130	5	01/14/16 11:5	6 460-00-4	
Dibromofluoromethane (S)	105	%	70-130	5	01/14/16 11:5	6 1868-53-7	
Toluene-d8 (S)	100	%	70-130	5	01/14/16 11:5	6 2037-26-5	



### **ANALYTICAL RESULTS**

Project: City of Rochester

Pace Project No.: 10335670

Date: 01/14/2016 04:23 PM

Sample: DPE-5	Lab ID: 103	35670005	Collected: 01/11/1	6 14:20	Received: (	01/12/16 09:45	Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qua
8260 MSV	Analytical Met	nod: EPA 82	260					
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		01/14/16 08:1	1 630-20-6	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		01/14/16 08:1	1 71-55-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		01/14/16 08:1	1 79-34-5	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		01/14/16 08:1	1 79-00-5	
1,1,2-Trichlorotrifluoroethane	19.7	ug/L	5.0	1		01/14/16 08:1	1 76-13-1	
1,1-Dichloroethane	ND	ug/L	1.0	1		01/14/16 08:1	1 75-34-3	
1,1-Dichloroethene	ND	ug/L	1.0	1		01/14/16 08:1	1 75-35-4	
1,1-Dichloropropene	ND	ug/L	1.0	1		01/14/16 08:1	1 563-58-6	
1,2,3-Trichlorobenzene	ND	ug/L	5.0	1		01/14/16 08:1	1 87-61-6	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		01/14/16 08:1		
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		01/14/16 08:1		
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1		01/14/16 08:1		
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	1		01/14/16 08:1		
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		01/14/16 08:1		
1,2-Dichlorobenzene	ND	ug/L	1.0	1		01/14/16 08:1		
1,2-Dichloroethane	ND ND	-	1.0	1		01/14/16 08:1		
1,2-Dichloropropane	ND ND	ug/L	1.0	1		01/14/16 08:1		
	ND ND	ug/L	1.0	1		01/14/16 08:1		
1,3,5-Trimethylbenzene		ug/L	1.0	1		01/14/16 08:1		
1,3-Dichlorobenzene	ND	ug/L						
1,3-Dichloropropane	ND	ug/L	1.0	1		01/14/16 08:1		
1,4-Dichlorobenzene	ND	ug/L	1.0	1		01/14/16 08:1		
2,2-Dichloropropane	ND	ug/L	1.0	1		01/14/16 08:1		
2-Butanone (MEK)	ND	ug/L	20.0	1		01/14/16 08:1		
2-Chlorotoluene	ND	ug/L	1.0	1		01/14/16 08:1		
4-Chlorotoluene	ND	ug/L	1.0	1		01/14/16 08:1		
4-Methyl-2-pentanone (MIBK)	ND	ug/L	20.0	1		01/14/16 08:1		
Acetone	ND	ug/L	20.0	1		01/14/16 08:1		
Allyl chloride	ND	ug/L	5.0	1		01/14/16 08:1		
Benzene	ND	ug/L	1.0	1		01/14/16 08:1		
Bromobenzene	ND	ug/L	1.0	1		01/14/16 08:1	1 108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		01/14/16 08:1	1 74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		01/14/16 08:1	1 75-27-4	
Bromoform	ND	ug/L	5.0	1		01/14/16 08:1	1 75-25-2	
3romomethane	ND	ug/L	5.0	1		01/14/16 08:1	1 74-83-9	
Carbon tetrachloride	ND	ug/L	1.0	1		01/14/16 08:1	1 56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		01/14/16 08:1	1 108-90-7	
Chloroethane	ND	ug/L	1.0	1		01/14/16 08:1	1 75-00-3	
Chloroform	ND	ug/L	5.0	1		01/14/16 08:1	1 67-66-3	
Chloromethane	ND	ug/L	1.0	1		01/14/16 08:1	1 74-87-3	
Dibromochloromethane	ND	ug/L	5.0	1		01/14/16 08:1		
Dibromomethane	ND	ug/L	1.0	1		01/14/16 08:1		
Dichlorodifluoromethane	ND	ug/L	1.0	1		01/14/16 08:1		
Dichlorofluoromethane	ND	ug/L	1.0	1		01/14/16 08:1		
Diethyl ether (Ethyl ether)	ND	ug/L	5.0	1		01/14/16 08:1		
Ethylbenzene	ND	ug/L	1.0	1		01/14/16 08:1		
Hexachloro-1,3-butadiene	ND ND	•	5.0	1		01/14/16 08:1		
IEAAUIIUIU-I,J-DUIAUIUIU	שוו	ug/L	5.0	1		01/14/10 08:1	1 01-00-3	



Project: City of Rochester

Pace Project No.: 10335670

Date: 01/14/2016 04:23 PM

Sample: DPE-5	Lab ID: 103	35670005	Collected: 01/11/1	6 14:20	Received: 01/1	2/16 09:45 I	Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qua
8260 MSV	Analytical Meth	nod: EPA 82	60					
Methyl-tert-butyl ether	ND	ug/L	1.0	1	C	1/14/16 08:11	1634-04-4	
Methylene Chloride	ND	ug/L	1.0	1	C	1/14/16 08:11	75-09-2	
Naphthalene	ND	ug/L	5.0	1	C	1/14/16 08:11	91-20-3	
Styrene	ND	ug/L	1.0	1	C	1/14/16 08:11	100-42-5	
Tetrachloroethene	209	ug/L	1.0	1	C	1/14/16 08:11	127-18-4	
Tetrahydrofuran	ND	ug/L	5.0	1	C	1/14/16 08:11	109-99-9	
Toluene	ND	ug/L	1.0	1	C	1/14/16 08:11	108-88-3	
Trichloroethene	ND	ug/L	1.0	1	C	1/14/16 08:11	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1	C	1/14/16 08:11	75-69-4	
Vinyl chloride	ND	ug/L	1.0	1	C	1/14/16 08:11	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1	C	1/14/16 08:11	1330-20-7	
cis-1,2-Dichloroethene	1.9	ug/L	1.0	1	C	1/14/16 08:11	156-59-2	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1	C	1/14/16 08:11	10061-01-5	
n-Butylbenzene	ND	ug/L	1.0	1	C	1/14/16 08:11	104-51-8	
n-Propylbenzene	ND	ug/L	1.0	1	C	1/14/16 08:11	103-65-1	
p-Isopropyltoluene	ND	ug/L	1.0	1	C	1/14/16 08:11	99-87-6	
sec-Butylbenzene	ND	ug/L	5.0	1	C	1/14/16 08:11	135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	1	C	1/14/16 08:11	98-06-6	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1	C	1/14/16 08:11	156-60-5	
trans-1,3-Dichloropropene	ND	ug/L	20.0	1	C	)1/14/16 08:11	10061-02-6	
Surrogates 4-Bromofluorobenzene (S)	104	%	70-130	1	C	)1/14/16 08:11	460-00-4	
Dibromofluoromethane (S)	107	%	70-130	1	C	1/14/16 08:11	1868-53-7	
Toluene-d8 (S)	96	%	70-130	1	C	01/14/16 08:11	2037-26-5	



### **ANALYTICAL RESULTS**

Project: City of Rochester

Pace Project No.: 10335670

Date: 01/14/2016 04:23 PM

Sample: DPE-6	Lab ID: 10335670006		Collected: 01/11/1	Collected: 01/11/16 13:50		01/12/16 09:45	Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qua
8260 MSV	Analytical Met	hod: EPA 82	260					
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		01/13/16 17:3	1 630-20-6	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		01/13/16 17:3	1 71-55-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		01/13/16 17:3	1 79-34-5	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		01/13/16 17:3	1 79-00-5	
1,1,2-Trichlorotrifluoroethane	ND	ug/L	5.0	1		01/13/16 17:3	1 76-13-1	
1,1-Dichloroethane	ND	ug/L	1.0	1		01/13/16 17:3	1 75-34-3	
1,1-Dichloroethene	ND	ug/L	1.0	1		01/13/16 17:3	1 75-35-4	
1,1-Dichloropropene	ND	ug/L	1.0	1		01/13/16 17:3	1 563-58-6	
1,2,3-Trichlorobenzene	ND	ug/L	5.0	1		01/13/16 17:3	1 87-61-6	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		01/13/16 17:3		
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		01/13/16 17:3		
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1		01/13/16 17:3		
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	1		01/13/16 17:3		
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		01/13/16 17:3		
1,2-Dichlorobenzene	ND	ug/L	1.0	1		01/13/16 17:3		
1,2-Dichloroethane	ND	ug/L	1.0	1		01/13/16 17:3		
1,2-Dichloropropane	ND	ug/L	1.0	1		01/13/16 17:3		
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1		01/13/16 17:3		
1,3-Dichlorobenzene	ND ND	ug/L ug/L	1.0	1		01/13/16 17:3		
	ND ND	_	1.0	1		01/13/16 17:3		
1,3-Dichloropropane		ug/L		1				
1,4-Dichlorobenzene	ND	ug/L	1.0	1		01/13/16 17:3		
2,2-Dichloropropane	ND	ug/L	1.0	1		01/13/16 17:3		
2-Butanone (MEK)	ND	ug/L	20.0			01/13/16 17:3		
2-Chlorotoluene	ND	ug/L	1.0	1		01/13/16 17:3		
4-Chlorotoluene	ND	ug/L	1.0	1		01/13/16 17:3		
4-Methyl-2-pentanone (MIBK)	ND	ug/L	20.0	1		01/13/16 17:3		
Acetone	ND	ug/L	20.0	1		01/13/16 17:3		
Allyl chloride	ND	ug/L	5.0	1		01/13/16 17:3		
Benzene	ND	ug/L	1.0	1		01/13/16 17:3		
Bromobenzene	ND	ug/L	1.0	1		01/13/16 17:3		
Bromochloromethane	ND	ug/L	1.0	1		01/13/16 17:3		
Bromodichloromethane	ND	ug/L	1.0	1		01/13/16 17:3		
Bromoform	ND	ug/L	5.0	1		01/13/16 17:3		
Bromomethane	ND	ug/L	5.0	1		01/13/16 17:3	1 74-83-9	
Carbon tetrachloride	ND	ug/L	1.0	1		01/13/16 17:3	1 56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		01/13/16 17:3	1 108-90-7	
Chloroethane	ND	ug/L	1.0	1		01/13/16 17:3	1 75-00-3	
Chloroform	ND	ug/L	5.0	1		01/13/16 17:3	1 67-66-3	
Chloromethane	ND	ug/L	1.0	1		01/13/16 17:3	1 74-87-3	
Dibromochloromethane	ND	ug/L	5.0	1		01/13/16 17:3	1 124-48-1	
Dibromomethane	ND	ug/L	1.0	1		01/13/16 17:3	1 74-95-3	
Dichlorodifluoromethane	ND	ug/L	1.0	1		01/13/16 17:3	1 75-71-8	
Dichlorofluoromethane	ND	ug/L	1.0	1		01/13/16 17:3	1 75-43-4	
Diethyl ether (Ethyl ether)	ND	ug/L	5.0	1		01/13/16 17:3	1 60-29-7	
Ethylbenzene	ND	ug/L	1.0	1		01/13/16 17:3		
Hexachloro-1,3-butadiene	ND	ug/L	5.0	1		01/13/16 17:3		
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		01/13/16 17:3		





Project: City of Rochester

Pace Project No.: 10335670

Date: 01/14/2016 04:23 PM

Sample: DPE-6	Lab ID: 10335670006		Collected: 01/11/1	6 13:50	Received: 01/12/16 09:45	Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared Analyzed	CAS No.	Qua
8260 MSV	Analytical Meth	nod: EPA 82	260				
Methyl-tert-butyl ether	ND	ug/L	1.0	1	01/13/16 17:3	1 1634-04-4	
Methylene Chloride	ND	ug/L	1.0	1	01/13/16 17:3	1 75-09-2	
Naphthalene	ND	ug/L	5.0	1	01/13/16 17:3	1 91-20-3	
Styrene	ND	ug/L	1.0	1	01/13/16 17:3	1 100-42-5	
Tetrachloroethene	17.0	ug/L	1.0	1	01/13/16 17:3	1 127-18-4	
Tetrahydrofuran	ND	ug/L	5.0	1	01/13/16 17:3	1 109-99-9	
Toluene	ND	ug/L	1.0	1	01/13/16 17:3	1 108-88-3	
Trichloroethene	ND	ug/L	1.0	1	01/13/16 17:3	1 79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1	01/13/16 17:3	1 75-69-4	
Vinyl chloride	ND	ug/L	1.0	1	01/13/16 17:3	1 75-01-4	
Xylene (Total)	ND	ug/L	3.0	1	01/13/16 17:3	1 1330-20-7	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1	01/13/16 17:3	1 156-59-2	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1	01/13/16 17:3	1 10061-01-5	
n-Butylbenzene	ND	ug/L	1.0	1	01/13/16 17:3	1 104-51-8	
n-Propylbenzene	ND	ug/L	1.0	1	01/13/16 17:3	1 103-65-1	
p-Isopropyltoluene	ND	ug/L	1.0	1	01/13/16 17:3	1 99-87-6	
sec-Butylbenzene	ND	ug/L	5.0	1	01/13/16 17:3	1 135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	1	01/13/16 17:3	1 98-06-6	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1	01/13/16 17:3	1 156-60-5	
trans-1,3-Dichloropropene <b>Surrogates</b>	ND	ug/L	20.0	1	01/13/16 17:3	1 10061-02-6	
4-Bromofluorobenzene (S)	101	%	70-130	1	01/13/16 17:3	1 460-00-4	
Dibromofluoromethane (S)	101	%	70-130	1	01/13/16 17:3	1 1868-53-7	
Toluene-d8 (S)	98	%	70-130	1	01/13/16 17:3	1 2037-26-5	



### **ANALYTICAL RESULTS**

Project: City of Rochester

Pace Project No.: 10335670

Date: 01/14/2016 04:23 PM

Sample: DPE-7	Lab ID: 10335670007		Collected: 01/11/1	6 13:05	Received: 0	01/12/16 09:45	Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Met	hod: EPA 82	260					
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		01/14/16 08:33	630-20-6	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		01/14/16 08:33	71-55-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		01/14/16 08:33	79-34-5	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		01/14/16 08:33	79-00-5	
1,1,2-Trichlorotrifluoroethane	ND	ug/L	5.0	1		01/14/16 08:33	76-13-1	
1,1-Dichloroethane	ND	ug/L	1.0	1		01/14/16 08:33	75-34-3	
1,1-Dichloroethene	ND	ug/L	1.0	1		01/14/16 08:33	75-35-4	
1,1-Dichloropropene	ND	ug/L	1.0	1		01/14/16 08:33	563-58-6	
1,2,3-Trichlorobenzene	ND	ug/L	5.0	1		01/14/16 08:33	87-61-6	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		01/14/16 08:33	96-18-4	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		01/14/16 08:33		
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1		01/14/16 08:33		
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	1		01/14/16 08:33	96-12-8	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		01/14/16 08:33	3 106-93-4	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		01/14/16 08:33	95-50-1	
1,2-Dichloroethane	ND	ug/L	1.0	1		01/14/16 08:33		
1,2-Dichloropropane	ND	ug/L	1.0	1		01/14/16 08:33		
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1		01/14/16 08:33		
1,3-Dichlorobenzene	ND	ug/L	1.0	1		01/14/16 08:33		
1,3-Dichloropropane	ND	ug/L	1.0	1		01/14/16 08:33		
1,4-Dichlorobenzene	ND	ug/L	1.0	1		01/14/16 08:33		
2,2-Dichloropropane	ND	ug/L	1.0	1		01/14/16 08:33		
2-Butanone (MEK)	ND	ug/L	20.0	1		01/14/16 08:33		
2-Chlorotoluene	ND	ug/L	1.0	1		01/14/16 08:33		
4-Chlorotoluene	ND ND	ug/L ug/L	1.0	1		01/14/16 08:33		
	ND ND	•	20.0	1		01/14/16 08:33		
4-Methyl-2-pentanone (MIBK) Acetone	ND ND	ug/L	20.0	1		01/14/16 08:33		
Allyl chloride	ND ND	ug/L	5.0	1		01/14/16 08:33		
Allyr chlonde Benzene	ND ND	ug/L	1.0	1		01/14/16 08:33		
		ug/L		1				
Bromobenzene	ND	ug/L	1.0			01/14/16 08:33		
Bromochloromethane	ND	ug/L	1.0	1 1		01/14/16 08:33		
Bromodichloromethane	ND	ug/L	1.0			01/14/16 08:33		
Bromoform	ND	ug/L	5.0	1		01/14/16 08:33		
Bromomethane	ND	ug/L	5.0	1		01/14/16 08:33		
Carbon tetrachloride	ND	ug/L	1.0	1		01/14/16 08:33		
Chlorobenzene	ND	ug/L	1.0	1		01/14/16 08:33		
Chloroethane	ND	ug/L	1.0	1		01/14/16 08:33		
Chloroform	ND	ug/L	5.0	1		01/14/16 08:33		
Chloromethane	ND	ug/L	1.0	1		01/14/16 08:33		
Dibromochloromethane	ND	ug/L	5.0	1		01/14/16 08:33		
Dibromomethane	ND	ug/L	1.0	1		01/14/16 08:33		
Dichlorodifluoromethane	ND	ug/L	1.0	1		01/14/16 08:33		
Dichlorofluoromethane	ND	ug/L	1.0	1		01/14/16 08:33		
Diethyl ether (Ethyl ether)	ND	ug/L	5.0	1		01/14/16 08:33		
Ethylbenzene	ND	ug/L	1.0	1		01/14/16 08:33	3 100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	5.0	1		01/14/16 08:33		
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		01/14/16 08:33	98-82-8	



Project: City of Rochester

Pace Project No.: 10335670

Date: 01/14/2016 04:23 PM

Sample: DPE-7	Lab ID: 10335670007		Collected: 01/11/1	6 13:05	Received: 01/12/16 09:45	Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared Analyzed	CAS No.	Qua
8260 MSV	Analytical Meth	nod: EPA 82	260				
Methyl-tert-butyl ether	ND	ug/L	1.0	1	01/14/16 08:3	3 1634-04-4	
Methylene Chloride	ND	ug/L	1.0	1	01/14/16 08:3	3 75-09-2	
Naphthalene	ND	ug/L	5.0	1	01/14/16 08:3	3 91-20-3	
Styrene	ND	ug/L	1.0	1	01/14/16 08:3	3 100-42-5	
Tetrachloroethene	29.1	ug/L	1.0	1	01/14/16 08:3	3 127-18-4	
Tetrahydrofuran	ND	ug/L	5.0	1	01/14/16 08:3	3 109-99-9	
Toluene	ND	ug/L	1.0	1	01/14/16 08:3	3 108-88-3	
Trichloroethene	ND	ug/L	1.0	1	01/14/16 08:3	3 79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1	01/14/16 08:3	3 75-69-4	
Vinyl chloride	ND	ug/L	1.0	1	01/14/16 08:3	3 75-01-4	
Xylene (Total)	ND	ug/L	3.0	1	01/14/16 08:3	3 1330-20-7	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1	01/14/16 08:3	3 156-59-2	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1	01/14/16 08:3	3 10061-01-5	
n-Butylbenzene	ND	ug/L	1.0	1	01/14/16 08:3	3 104-51-8	
n-Propylbenzene	ND	ug/L	1.0	1	01/14/16 08:3	3 103-65-1	
p-Isopropyltoluene	ND	ug/L	1.0	1	01/14/16 08:3	3 99-87-6	
sec-Butylbenzene	ND	ug/L	5.0	1	01/14/16 08:3	3 135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	1	01/14/16 08:3	3 98-06-6	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1	01/14/16 08:3	3 156-60-5	
trans-1,3-Dichloropropene	ND	ug/L	20.0	1	01/14/16 08:3	3 10061-02-6	
Surrogates							
4-Bromofluorobenzene (S)	102	%	70-130	1	01/14/16 08:3		
Dibromofluoromethane (S)	108	%	70-130	1	01/14/16 08:3	3 1868-53-7	
Toluene-d8 (S)	95	%	70-130	1	01/14/16 08:3	3 2037-26-5	



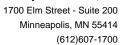
### **ANALYTICAL RESULTS**

Project: City of Rochester

Pace Project No.: 10335670

Date: 01/14/2016 04:23 PM

Sample: DPE-8	Lab ID: 103	35670008	Collected: 01/11/1	6 15:00	Received:	01/12/16 09:45	Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qua
8260 MSV	Analytical Met	hod: EPA 82	260					
1,1,1,2-Tetrachloroethane	ND	ug/L	4.0	4		01/14/16 12:1	8 630-20-6	
1,1,1-Trichloroethane	ND	ug/L	4.0	4		01/14/16 12:1	8 71-55-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	4.0	4		01/14/16 12:1	8 79-34-5	
1,1,2-Trichloroethane	ND	ug/L	4.0	4		01/14/16 12:1	8 79-00-5	
1,1,2-Trichlorotrifluoroethane	ND	ug/L	20.0	4		01/14/16 12:1	8 76-13-1	
1,1-Dichloroethane	ND	ug/L	4.0	4		01/14/16 12:1	8 75-34-3	
1,1-Dichloroethene	ND	ug/L	4.0	4		01/14/16 12:1	8 75-35-4	
1,1-Dichloropropene	ND	ug/L	4.0	4		01/14/16 12:1	8 563-58-6	
,2,3-Trichlorobenzene	ND	ug/L	20.0	4		01/14/16 12:1	8 87-61-6	
,2,3-Trichloropropane	ND	ug/L	4.0	4		01/14/16 12:1	8 96-18-4	
I,2,4-Trichlorobenzene	ND	ug/L	20.0	4		01/14/16 12:1	8 120-82-1	
I,2,4-Trimethylbenzene	ND	ug/L	4.0	4		01/14/16 12:1		
,2-Dibromo-3-chloropropane	ND	ug/L	20.0	4		01/14/16 12:1		
,2-Dibromoethane (EDB)	ND	ug/L	4.0	4		01/14/16 12:1		
,2-Dichlorobenzene	ND	ug/L	4.0	4		01/14/16 12:1		
.2-Dichloroethane	ND	ug/L	4.0	4		01/14/16 12:1		
,2-Dichloropropane	ND	ug/L	4.0	4		01/14/16 12:1		
,3,5-Trimethylbenzene	ND	ug/L	4.0	4		01/14/16 12:1		
,3-Dichlorobenzene	ND ND	ug/L	4.0	4		01/14/16 12:1		
,3-Dichloropropane	ND ND	ug/L	4.0	4		01/14/16 12:1		
,4-Dichlorobenzene	ND ND	ug/L	4.0	4		01/14/16 12:1		
2,2-Dichloropropane	ND ND	ug/L ug/L	4.0	4		01/14/16 12:1		
	ND ND	•	80.0	4		01/14/16 12:1		
P-Butanone (MEK)		ug/L		4				
2-Chlorotoluene	ND	ug/L	4.0			01/14/16 12:1		
-Chlorotoluene	ND	ug/L	4.0	4		01/14/16 12:1		
I-Methyl-2-pentanone (MIBK)	ND	ug/L	80.0	4		01/14/16 12:1		
Acetone	ND	ug/L	80.0	4		01/14/16 12:1		
Allyl chloride	ND	ug/L	20.0	4		01/14/16 12:1		
Benzene	ND	ug/L	4.0	4		01/14/16 12:1		
Bromobenzene	ND	ug/L	4.0	4		01/14/16 12:1		
Bromochloromethane	ND	ug/L	4.0	4		01/14/16 12:1		
Bromodichloromethane	ND	ug/L	4.0	4		01/14/16 12:1		
Bromoform	ND	ug/L	20.0	4		01/14/16 12:1		
Bromomethane	ND	ug/L	20.0	4		01/14/16 12:1		
Carbon tetrachloride	ND	ug/L	4.0	4		01/14/16 12:1		
Chlorobenzene	ND	ug/L	4.0	4		01/14/16 12:1		
Chloroethane	ND	ug/L	4.0	4		01/14/16 12:1		
Chloroform	ND	ug/L	20.0	4		01/14/16 12:1		
Chloromethane	ND	ug/L	4.0	4		01/14/16 12:1		
Dibromochloromethane	ND	ug/L	20.0	4		01/14/16 12:1		
Dibromomethane	ND	ug/L	4.0	4		01/14/16 12:1		
Dichlorodifluoromethane	ND	ug/L	4.0	4		01/14/16 12:1		
Dichlorofluoromethane	ND	ug/L	4.0	4		01/14/16 12:1	8 75-43-4	
Diethyl ether (Ethyl ether)	ND	ug/L	20.0	4		01/14/16 12:1	8 60-29-7	
thylbenzene	ND	ug/L	4.0	4		01/14/16 12:1	8 100-41-4	
lexachloro-1,3-butadiene	ND	ug/L	20.0	4		01/14/16 12:1	8 87-68-3	
sopropylbenzene (Cumene)	ND	ug/L	4.0	4		01/14/16 12:1	8 98-82-8	



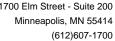


Project: City of Rochester

Pace Project No.: 10335670

Date: 01/14/2016 04:23 PM

Sample: DPE-8	Lab ID: 10335670008		Collected: 01/11/1	6 15:00	Received: 0'	1/12/16 09:45 N	Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qua
8260 MSV	Analytical Meth	od: EPA 82	260					
Methyl-tert-butyl ether	ND	ug/L	4.0	4		01/14/16 12:18	1634-04-4	
Methylene Chloride	ND	ug/L	4.0	4		01/14/16 12:18	75-09-2	
Naphthalene	ND	ug/L	20.0	4		01/14/16 12:18	91-20-3	
Styrene	ND	ug/L	4.0	4		01/14/16 12:18	100-42-5	
Tetrachloroethene	288	ug/L	4.0	4		01/14/16 12:18	127-18-4	
Tetrahydrofuran	ND	ug/L	20.0	4		01/14/16 12:18	109-99-9	
Toluene	ND	ug/L	4.0	4		01/14/16 12:18	108-88-3	
Trichloroethene	ND	ug/L	4.0	4		01/14/16 12:18	79-01-6	
Trichlorofluoromethane	ND	ug/L	4.0	4		01/14/16 12:18	75-69-4	
Vinyl chloride	ND	ug/L	4.0	4		01/14/16 12:18	75-01-4	
Xylene (Total)	ND	ug/L	12.0	4		01/14/16 12:18	1330-20-7	
cis-1,2-Dichloroethene	ND	ug/L	4.0	4		01/14/16 12:18	156-59-2	
cis-1,3-Dichloropropene	ND	ug/L	20.0	4		01/14/16 12:18	10061-01-5	
n-Butylbenzene	ND	ug/L	4.0	4		01/14/16 12:18	104-51-8	
n-Propylbenzene	ND	ug/L	4.0	4		01/14/16 12:18	103-65-1	
p-Isopropyltoluene	ND	ug/L	4.0	4		01/14/16 12:18	99-87-6	
sec-Butylbenzene	ND	ug/L	20.0	4		01/14/16 12:18	135-98-8	
tert-Butylbenzene	ND	ug/L	4.0	4		01/14/16 12:18	98-06-6	
trans-1,2-Dichloroethene	ND	ug/L	4.0	4		01/14/16 12:18	156-60-5	
trans-1,3-Dichloropropene	ND	ug/L	80.0	4		01/14/16 12:18	10061-02-6	
<b>Surrogates</b> 4-Bromofluorobenzene (S)	102	%	70-130	4		01/14/16 12:18	460-00-4	
Dibromofluoromethane (S)	102	%	70-130	4		01/14/16 12:18		
Toluene-d8 (S)	98	% %	70-130	4		01/14/16 12:18		





Project: City of Rochester

Pace Project No.: 10335670

Date: 01/14/2016 04:23 PM

Sample: MW-14	Lab ID: 10	335670009	Collected: 01/11/1	6 13:25	Received:	01/12/16 09:45	Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qua
3260 MSV	Analytical Me	ethod: EPA 82	260					
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		01/14/16 08:56	630-20-6	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		01/14/16 08:56	71-55-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		01/14/16 08:56	79-34-5	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		01/14/16 08:56	79-00-5	
1,1,2-Trichlorotrifluoroethane	ND	ug/L	5.0	1		01/14/16 08:56	6 76-13-1	
1,1-Dichloroethane	ND	ug/L	1.0	1		01/14/16 08:56	75-34-3	
1,1-Dichloroethene	ND	ug/L	1.0	1		01/14/16 08:56	75-35-4	
1,1-Dichloropropene	ND	ug/L	1.0	1		01/14/16 08:56	563-58-6	
,2,3-Trichlorobenzene	ND	ug/L	5.0	1		01/14/16 08:56	87-61-6	
,2,3-Trichloropropane	ND	ug/L	1.0	1		01/14/16 08:56	96-18-4	
,2,4-Trichlorobenzene	ND	ug/L	5.0	1		01/14/16 08:56	120-82-1	
,2,4-Trimethylbenzene	ND	ug/L	1.0	1		01/14/16 08:56		
,2-Dibromo-3-chloropropane	ND	ug/L	5.0	1		01/14/16 08:56		
,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		01/14/16 08:56		
,2-Dichlorobenzene	ND	ug/L	1.0	1		01/14/16 08:56		
,2-Dichloroethane	ND	ug/L	1.0	1		01/14/16 08:56		
,2-Dichloropropane	ND	ug/L	1.0	1		01/14/16 08:56		
,3,5-Trimethylbenzene	ND	ug/L	1.0	1		01/14/16 08:56		
,3-Dichlorobenzene	ND	ug/L	1.0	1		01/14/16 08:56		
,3-Dichloropropane	ND	ug/L	1.0	1		01/14/16 08:56		
,4-Dichlorobenzene	ND ND		1.0	1		01/14/16 08:56		
-	ND ND	ug/L	1.0	1		01/14/16 08:56		
2,2-Dichloropropane	ND ND	ug/L	20.0	1		01/14/16 08:56		
-Butanone (MEK)		ug/L						
2-Chlorotoluene	ND	ug/L	1.0	1		01/14/16 08:56		
-Chlorotoluene	ND	ug/L	1.0	1		01/14/16 08:56		
I-Methyl-2-pentanone (MIBK)	ND	ug/L	20.0	1		01/14/16 08:56		
Acetone	ND	ug/L	20.0	1		01/14/16 08:56		
Allyl chloride	ND	ug/L	5.0	1		01/14/16 08:56		
Benzene	ND	ug/L	1.0	1		01/14/16 08:56		
Bromobenzene	ND	ug/L	1.0	1		01/14/16 08:56		
Bromochloromethane	ND	ug/L	1.0	1		01/14/16 08:56		
Bromodichloromethane	ND	ug/L	1.0	1		01/14/16 08:56		
Bromoform	ND	ug/L	5.0	1		01/14/16 08:56		
Bromomethane	ND	ug/L	5.0	1		01/14/16 08:56		
Carbon tetrachloride	ND	ug/L	1.0	1		01/14/16 08:56		
Chlorobenzene	ND	ug/L	1.0	1		01/14/16 08:56		
Chloroethane	ND	ug/L	1.0	1		01/14/16 08:56		
Chloroform	ND	ug/L	5.0	1		01/14/16 08:56	67-66-3	
Chloromethane	ND	ug/L	1.0	1		01/14/16 08:56	74-87-3	
Dibromochloromethane	ND	ug/L	5.0	1		01/14/16 08:56	124-48-1	
ibromomethane	ND	ug/L	1.0	1		01/14/16 08:56	74-95-3	
Dichlorodifluoromethane	ND	ug/L	1.0	1		01/14/16 08:56	75-71-8	
ichlorofluoromethane	ND	ug/L	1.0	1		01/14/16 08:56	5 75-43-4	
Diethyl ether (Ethyl ether)	ND	ug/L	5.0	1		01/14/16 08:56	60-29-7	
Ethylbenzene	ND	ug/L	1.0	1		01/14/16 08:56	3 100-41-4	
lexachloro-1,3-butadiene	ND	ug/L	5.0	1		01/14/16 08:56	87-68-3	
sopropylbenzene (Cumene)	ND	ug/L	1.0	1		01/14/16 08:56		



Project: City of Rochester

Pace Project No.: 10335670

Date: 01/14/2016 04:23 PM

Sample: MW-14	Lab ID: 103	35670009	Collected: 01/11/1	6 13:25	Received: 01/12/16 09:45	Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared Analyzed	CAS No.	Qua
8260 MSV	Analytical Meth	nod: EPA 82	260				
Methyl-tert-butyl ether	ND	ug/L	1.0	1	01/14/16 08:5	6 1634-04-4	
Methylene Chloride	ND	ug/L	1.0	1	01/14/16 08:5	6 75-09-2	
Naphthalene	ND	ug/L	5.0	1	01/14/16 08:5	6 91-20-3	
Styrene	ND	ug/L	1.0	1	01/14/16 08:5	6 100-42-5	
Tetrachloroethene	11.1	ug/L	1.0	1	01/14/16 08:5	6 127-18-4	
Tetrahydrofuran	ND	ug/L	5.0	1	01/14/16 08:5	6 109-99-9	
Toluene	ND	ug/L	1.0	1	01/14/16 08:5	6 108-88-3	
Trichloroethene	ND	ug/L	1.0	1	01/14/16 08:5	6 79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1	01/14/16 08:5	6 75-69-4	
Vinyl chloride	ND	ug/L	1.0	1	01/14/16 08:5	6 75-01-4	
Xylene (Total)	ND	ug/L	3.0	1	01/14/16 08:5	6 1330-20-7	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1	01/14/16 08:5	6 156-59-2	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1	01/14/16 08:5	6 10061-01-5	
n-Butylbenzene	ND	ug/L	1.0	1	01/14/16 08:5	6 104-51-8	
n-Propylbenzene	ND	ug/L	1.0	1	01/14/16 08:5	6 103-65-1	
p-Isopropyltoluene	ND	ug/L	1.0	1	01/14/16 08:5	6 99-87-6	
sec-Butylbenzene	ND	ug/L	5.0	1	01/14/16 08:5	6 135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	1	01/14/16 08:5	6 98-06-6	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1	01/14/16 08:5	6 156-60-5	
trans-1,3-Dichloropropene	ND	ug/L	20.0	1	01/14/16 08:5	6 10061-02-6	
Surrogates							
4-Bromofluorobenzene (S)	101	%	70-130	1	01/14/16 08:5		
Dibromofluoromethane (S)	107	%	70-130	1	01/14/16 08:5		
Toluene-d8 (S)	96	%	70-130	1	01/14/16 08:5	6 2037-26-5	



### **ANALYTICAL RESULTS**

Project: City of Rochester

Pace Project No.: 10335670

Date: 01/14/2016 04:23 PM

Sample: MW-15	Lab ID: 103	35670010	Collected: 01/11/1	6 13:45	Received: (	01/12/16 09:45	Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Met	hod: EPA 82	260					
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		01/14/16 09:1	8 630-20-6	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		01/14/16 09:1	8 71-55-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		01/14/16 09:1	8 79-34-5	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		01/14/16 09:1	8 79-00-5	
1,1,2-Trichlorotrifluoroethane	ND	ug/L	5.0	1		01/14/16 09:1	8 76-13-1	
1,1-Dichloroethane	ND	ug/L	1.0	1		01/14/16 09:1	8 75-34-3	
1,1-Dichloroethene	ND	ug/L	1.0	1		01/14/16 09:1	8 75-35-4	
1,1-Dichloropropene	ND	ug/L	1.0	1		01/14/16 09:1	8 563-58-6	
1,2,3-Trichlorobenzene	ND	ug/L	5.0	1		01/14/16 09:1	8 87-61-6	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		01/14/16 09:1	8 96-18-4	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		01/14/16 09:1		
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1		01/14/16 09:1		
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	1		01/14/16 09:1		
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		01/14/16 09:1		
1,2-Dichlorobenzene	ND	ug/L	1.0	1		01/14/16 09:1		
1,2-Dichloroethane	ND	ug/L	1.0	1		01/14/16 09:1		
1,2-Dichloropropane	ND	ug/L	1.0	1		01/14/16 09:1		
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1		01/14/16 09:1		
1,3-Dichlorobenzene	ND	ug/L	1.0	1		01/14/16 09:1		
1,3-Dichloropropane	ND	ug/L	1.0	1		01/14/16 09:1		
1,4-Dichlorobenzene	ND	ug/L	1.0	1		01/14/16 09:1		
2,2-Dichloropropane	ND	ug/L	1.0	1		01/14/16 09:1		
2-Butanone (MEK)	ND	ug/L	20.0	1		01/14/16 09:1		
2-Chlorotoluene	ND	ug/L	1.0	1		01/14/16 09:1		
4-Chlorotoluene	ND	ug/L	1.0	1		01/14/16 09:1		
4-Methyl-2-pentanone (MIBK)	ND ND	ug/L ug/L	20.0	1		01/14/16 09:1		
Acetone	ND ND	ug/L ug/L	20.0	1		01/14/16 09:1		
Allyl chloride	ND ND	ug/L ug/L	5.0	1		01/14/16 09:1		
Benzene	ND ND	ug/L ug/L	1.0	1		01/14/16 09:1		
Bromobenzene	ND ND	ug/L ug/L	1.0	1		01/14/16 09:1		
Bromochloromethane	ND ND	•	1.0	1		01/14/16 09:1		
Bromodichloromethane	ND ND	ug/L	1.0	1		01/14/16 09:1		
Bromoform	ND	ug/L ug/L	5.0	1		01/14/16 09:1		
Bromomethane	ND ND	•	5.0	1		01/14/16 09:1		
	ND ND	ug/L	1.0	1		01/14/16 09:1		
Carbon tetrachloride		ug/L	1.0	1				
Chlorobenzene	ND	ug/L		1		01/14/16 09:1		
Chloroethane	ND	ug/L	1.0	1		01/14/16 09:1		
Chloroform	ND	ug/L	5.0	1		01/14/16 09:1		
Chloromethane	ND	ug/L	1.0	1		01/14/16 09:1		
Dibromochloromethane	ND	ug/L	5.0	1		01/14/16 09:1		
Dibromomethane	ND	ug/L	1.0	1		01/14/16 09:1		
Dichlorodifluoromethane	ND	ug/L	1.0	1		01/14/16 09:1		
Dichlorofluoromethane	ND	ug/L	1.0	1		01/14/16 09:1		
Diethyl ether (Ethyl ether)	ND	ug/L	5.0	1		01/14/16 09:1		
Ethylbenzene	ND	ug/L	1.0	1		01/14/16 09:1		
Hexachloro-1,3-butadiene	ND	ug/L	5.0	1		01/14/16 09:1		
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		01/14/16 09:1	8 98-82-8	



Project: City of Rochester

Pace Project No.: 10335670

Date: 01/14/2016 04:23 PM

Sample: MW-15	Lab ID: 103	35670010	Collected: 01/11/1	6 13:45	Received: 01	/12/16 09:45 N	Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qua
8260 MSV	Analytical Meth	nod: EPA 82	260					
Methyl-tert-butyl ether	ND	ug/L	1.0	1		01/14/16 09:18	1634-04-4	
Methylene Chloride	ND	ug/L	1.0	1		01/14/16 09:18	75-09-2	
Naphthalene	ND	ug/L	5.0	1		01/14/16 09:18	91-20-3	
Styrene	ND	ug/L	1.0	1		01/14/16 09:18	100-42-5	
Tetrachloroethene	11.9	ug/L	1.0	1		01/14/16 09:18	127-18-4	
Tetrahydrofuran	ND	ug/L	5.0	1		01/14/16 09:18	109-99-9	
Toluene	ND	ug/L	1.0	1		01/14/16 09:18	108-88-3	
Trichloroethene	ND	ug/L	1.0	1		01/14/16 09:18	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		01/14/16 09:18	75-69-4	
Vinyl chloride	ND	ug/L	1.0	1		01/14/16 09:18	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		01/14/16 09:18	1330-20-7	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		01/14/16 09:18	156-59-2	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		01/14/16 09:18	10061-01-5	
n-Butylbenzene	ND	ug/L	1.0	1		01/14/16 09:18	104-51-8	
n-Propylbenzene	ND	ug/L	1.0	1		01/14/16 09:18	103-65-1	
p-Isopropyltoluene	ND	ug/L	1.0	1		01/14/16 09:18	99-87-6	
sec-Butylbenzene	ND	ug/L	5.0	1		01/14/16 09:18	135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	1		01/14/16 09:18	98-06-6	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		01/14/16 09:18	156-60-5	
trans-1,3-Dichloropropene	ND	ug/L	20.0	1		01/14/16 09:18	10061-02-6	
Surrogates 4-Bromofluorobenzene (S)	98	%	70-130	1		01/14/16 09:18	460-00-4	
Dibromofluoromethane (S)	103	%	70-130	1		01/14/16 09:18	1868-53-7	
Toluene-d8 (S)	98	%	70-130	1		01/14/16 09:18		



### **ANALYTICAL RESULTS**

Project: City of Rochester

Pace Project No.: 10335670

Date: 01/14/2016 04:23 PM

Sample: MW-16	Lab ID: 103	35670011	Collected: 01/11/1	6 14:35	Received:	01/12/16 09:45	Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qua
8260 MSV	Analytical Met	hod: EPA 82	260					
1,1,1,2-Tetrachloroethane	ND	ug/L	2.0	2		01/14/16 12:4	1 630-20-6	
1,1,1-Trichloroethane	ND	ug/L	2.0	2		01/14/16 12:4	1 71-55-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	2.0	2		01/14/16 12:4	1 79-34-5	
1,1,2-Trichloroethane	ND	ug/L	2.0	2		01/14/16 12:4	1 79-00-5	
1,1,2-Trichlorotrifluoroethane	21.5	ug/L	10.0	2		01/14/16 12:4	1 76-13-1	
1,1-Dichloroethane	ND	ug/L	2.0	2		01/14/16 12:4	1 75-34-3	
1,1-Dichloroethene	ND	ug/L	2.0	2		01/14/16 12:4	1 75-35-4	
1,1-Dichloropropene	ND	ug/L	2.0	2		01/14/16 12:4	1 563-58-6	
1,2,3-Trichlorobenzene	ND	ug/L	10.0	2		01/14/16 12:4	1 87-61-6	
1,2,3-Trichloropropane	ND	ug/L	2.0	2		01/14/16 12:4		
1,2,4-Trichlorobenzene	ND	ug/L	10.0	2		01/14/16 12:4		
1,2,4-Trimethylbenzene	ND	ug/L	2.0	2		01/14/16 12:4		
1,2-Dibromo-3-chloropropane	ND	ug/L	10.0	2		01/14/16 12:4		
1,2-Dibromoethane (EDB)	ND	ug/L	2.0	2		01/14/16 12:4		
1.2-Dichlorobenzene	ND	ug/L	2.0	2		01/14/16 12:4		
1,2-Dichloroethane	ND	ug/L	2.0	2		01/14/16 12:4		
1,2-Dichloropropane	ND ND	ug/L	2.0	2		01/14/16 12:4		
1,3,5-Trimethylbenzene	ND ND	ug/L	2.0	2		01/14/16 12:4		
1,3-Dichlorobenzene	ND ND		2.0	2		01/14/16 12:4		
		ug/L	2.0	2		01/14/16 12:4		
1,3-Dichloropropane	ND	ug/L						
1,4-Dichlorobenzene	ND	ug/L	2.0 2.0	2 2		01/14/16 12:4		
2,2-Dichloropropane	ND	ug/L				01/14/16 12:4		
2-Butanone (MEK)	ND	ug/L	40.0	2		01/14/16 12:4		
2-Chlorotoluene	ND	ug/L	2.0	2		01/14/16 12:4		
4-Chlorotoluene	ND	ug/L	2.0	2		01/14/16 12:4		
4-Methyl-2-pentanone (MIBK)	ND	ug/L	40.0	2		01/14/16 12:4		
Acetone	ND	ug/L	40.0	2		01/14/16 12:4		
Allyl chloride	ND	ug/L	10.0	2		01/14/16 12:4		
Benzene	ND	ug/L	2.0	2		01/14/16 12:4		
Bromobenzene	ND	ug/L	2.0	2		01/14/16 12:4		
Bromochloromethane	ND	ug/L	2.0	2		01/14/16 12:4		
Bromodichloromethane	ND	ug/L	2.0	2		01/14/16 12:4	1 75-27-4	
Bromoform	ND	ug/L	10.0	2		01/14/16 12:4	1 75-25-2	
Bromomethane	ND	ug/L	10.0	2		01/14/16 12:4	1 74-83-9	
Carbon tetrachloride	ND	ug/L	2.0	2		01/14/16 12:4	1 56-23-5	
Chlorobenzene	ND	ug/L	2.0	2		01/14/16 12:4	1 108-90-7	
Chloroethane	ND	ug/L	2.0	2		01/14/16 12:4	1 75-00-3	
Chloroform	ND	ug/L	10.0	2		01/14/16 12:4	1 67-66-3	
Chloromethane	ND	ug/L	2.0	2		01/14/16 12:4	1 74-87-3	
Dibromochloromethane	ND	ug/L	10.0	2		01/14/16 12:4	1 124-48-1	
Dibromomethane	ND	ug/L	2.0	2		01/14/16 12:4	1 74-95-3	
Dichlorodifluoromethane	ND	ug/L	2.0	2		01/14/16 12:4	1 75-71-8	
Dichlorofluoromethane	ND	ug/L	2.0	2		01/14/16 12:4		
Diethyl ether (Ethyl ether)	ND	ug/L	10.0	2		01/14/16 12:4		
Ethylbenzene	ND	ug/L	2.0	2		01/14/16 12:4		
Hexachloro-1,3-butadiene	ND	ug/L	10.0	2		01/14/16 12:4		
sopropylbenzene (Cumene)	ND	ug/L	2.0	2		01/14/16 12:4		



Project: City of Rochester

Pace Project No.: 10335670

Date: 01/14/2016 04:23 PM

Sample: MW-16	Lab ID: 103	35670011	Collected: 01/11/1	6 14:35	Received: 01/12/16 09:45	Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared Analyzed	CAS No.	Qua
8260 MSV	Analytical Meth	nod: EPA 82	260				
Methyl-tert-butyl ether	ND	ug/L	2.0	2	01/14/16 12:4	1 1634-04-4	
Methylene Chloride	ND	ug/L	2.0	2	01/14/16 12:4	1 75-09-2	
Naphthalene	ND	ug/L	10.0	2	01/14/16 12:4	1 91-20-3	
Styrene	ND	ug/L	2.0	2	01/14/16 12:4	1 100-42-5	
Tetrachloroethene	290	ug/L	2.0	2	01/14/16 12:4	1 127-18-4	
Tetrahydrofuran	ND	ug/L	10.0	2	01/14/16 12:4	1 109-99-9	
Toluene	ND	ug/L	2.0	2	01/14/16 12:4	1 108-88-3	
Trichloroethene	ND	ug/L	2.0	2	01/14/16 12:4	1 79-01-6	
Trichlorofluoromethane	ND	ug/L	2.0	2	01/14/16 12:4	1 75-69-4	
Vinyl chloride	ND	ug/L	2.0	2	01/14/16 12:4	1 75-01-4	
Xylene (Total)	ND	ug/L	6.0	2	01/14/16 12:4	1 1330-20-7	
cis-1,2-Dichloroethene	2.3	ug/L	2.0	2	01/14/16 12:4	1 156-59-2	
cis-1,3-Dichloropropene	ND	ug/L	10.0	2	01/14/16 12:4	1 10061-01-5	
n-Butylbenzene	ND	ug/L	2.0	2	01/14/16 12:4	1 104-51-8	
n-Propylbenzene	ND	ug/L	2.0	2	01/14/16 12:4	1 103-65-1	
p-Isopropyltoluene	ND	ug/L	2.0	2	01/14/16 12:4	1 99-87-6	
sec-Butylbenzene	ND	ug/L	10.0	2	01/14/16 12:4	1 135-98-8	
tert-Butylbenzene	ND	ug/L	2.0	2	01/14/16 12:4	1 98-06-6	
trans-1,2-Dichloroethene	ND	ug/L	2.0	2	01/14/16 12:4	1 156-60-5	
trans-1,3-Dichloropropene	ND	ug/L	40.0	2	01/14/16 12:4	1 10061-02-6	
Surrogates							
4-Bromofluorobenzene (S)	98	%	70-130	2	01/14/16 12:4	1 460-00-4	
Dibromofluoromethane (S)	102	%	70-130	2	01/14/16 12:4	1 1868-53-7	
Toluene-d8 (S)	96	%	70-130	2	01/14/16 12:4	1 2037-26-5	



### **ANALYTICAL RESULTS**

Project: City of Rochester

Pace Project No.: 10335670

Date: 01/14/2016 04:23 PM

Sample: MW-17	Lab ID: 103	35670012	Collected: 01/11/1	6 17:45	Received:	01/12/16 09:45	Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qua
8260 MSV	Analytical Met	nod: EPA 82	260					
1,1,1,2-Tetrachloroethane	ND	ug/L	2.0	2		01/14/16 10:2	6 630-20-6	
1,1,1-Trichloroethane	ND	ug/L	2.0	2		01/14/16 10:2	6 71-55-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	2.0	2		01/14/16 10:2	6 79-34-5	
1,1,2-Trichloroethane	ND	ug/L	2.0	2		01/14/16 10:2	6 79-00-5	
1,1,2-Trichlorotrifluoroethane	18.2	ug/L	10.0	2		01/14/16 10:2	6 76-13-1	
1,1-Dichloroethane	ND	ug/L	2.0	2		01/14/16 10:2	6 75-34-3	
1,1-Dichloroethene	ND	ug/L	2.0	2		01/14/16 10:2	6 75-35-4	
1,1-Dichloropropene	ND	ug/L	2.0	2		01/14/16 10:2	6 563-58-6	
1,2,3-Trichlorobenzene	ND	ug/L	10.0	2		01/14/16 10:2	6 87-61-6	
1,2,3-Trichloropropane	ND	ug/L	2.0	2		01/14/16 10:2	6 96-18-4	
1,2,4-Trichlorobenzene	ND	ug/L	10.0	2		01/14/16 10:2		
1,2,4-Trimethylbenzene	ND	ug/L	2.0	2		01/14/16 10:2		
1,2-Dibromo-3-chloropropane	ND	ug/L	10.0	2		01/14/16 10:2		
1,2-Dibromoethane (EDB)	ND	ug/L	2.0	2		01/14/16 10:2		
1,2-Dichlorobenzene	ND	ug/L	2.0	2		01/14/16 10:2		
1,2-Dichloroethane	ND	ug/L	2.0	2		01/14/16 10:2		
1,2-Dichloropropane	ND ND	ug/L	2.0	2		01/14/16 10:2		
1,3,5-Trimethylbenzene	ND ND	ug/L	2.0	2		01/14/16 10:2		
1,3-Dichlorobenzene	ND ND		2.0	2		01/14/16 10:2		
		ug/L	2.0			01/14/16 10:2		
1,3-Dichloropropane	ND	ug/L		2				
1,4-Dichlorobenzene	ND	ug/L	2.0 2.0	2 2		01/14/16 10:2		
2,2-Dichloropropane	ND	ug/L				01/14/16 10:2		
2-Butanone (MEK)	ND	ug/L	40.0	2		01/14/16 10:2		
2-Chlorotoluene	ND	ug/L	2.0	2		01/14/16 10:2		
4-Chlorotoluene	ND	ug/L	2.0	2		01/14/16 10:2		
4-Methyl-2-pentanone (MIBK)	ND	ug/L	40.0	2		01/14/16 10:2		
Acetone	ND	ug/L	40.0	2		01/14/16 10:2		
Allyl chloride	ND	ug/L	10.0	2		01/14/16 10:2		
Benzene	ND	ug/L	2.0	2		01/14/16 10:2		
Bromobenzene	ND	ug/L	2.0	2		01/14/16 10:2		
Bromochloromethane	ND	ug/L	2.0	2		01/14/16 10:2		
Bromodichloromethane	ND	ug/L	2.0	2		01/14/16 10:2		
Bromoform	ND	ug/L	10.0	2		01/14/16 10:2	6 75-25-2	
Bromomethane	ND	ug/L	10.0	2		01/14/16 10:2	6 74-83-9	
Carbon tetrachloride	ND	ug/L	2.0	2		01/14/16 10:2	6 56-23-5	
Chlorobenzene	ND	ug/L	2.0	2		01/14/16 10:2	6 108-90-7	
Chloroethane	ND	ug/L	2.0	2		01/14/16 10:2	6 75-00-3	
Chloroform	ND	ug/L	10.0	2		01/14/16 10:2	6 67-66-3	
Chloromethane	ND	ug/L	2.0	2		01/14/16 10:2	6 74-87-3	
Dibromochloromethane	ND	ug/L	10.0	2		01/14/16 10:2	6 124-48-1	
Dibromomethane	ND	ug/L	2.0	2		01/14/16 10:2	6 74-95-3	
Dichlorodifluoromethane	ND	ug/L	2.0	2		01/14/16 10:2	6 75-71-8	
Dichlorofluoromethane	ND	ug/L	2.0	2		01/14/16 10:2	6 75-43-4	
Diethyl ether (Ethyl ether)	ND	ug/L	10.0	2		01/14/16 10:2		
Ethylbenzene	ND	ug/L	2.0	2		01/14/16 10:2		
Hexachloro-1,3-butadiene	ND	ug/L	10.0	2		01/14/16 10:2		
sopropylbenzene (Cumene)	ND	ug/L	2.0	2		01/14/16 10:2		



Project: City of Rochester

Pace Project No.: 10335670

Date: 01/14/2016 04:23 PM

Sample: MW-17	Lab ID: 103	35670012	Collected: 01/11/1	6 17:45	Received: 01/12/16 09:45	Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared Analyzed	CAS No.	Qua
8260 MSV	Analytical Meth	nod: EPA 82	260				
Methyl-tert-butyl ether	ND	ug/L	2.0	2	01/14/16 10:26	6 1634-04-4	
Methylene Chloride	ND	ug/L	2.0	2	01/14/16 10:26	5 75-09-2	
Naphthalene	ND	ug/L	10.0	2	01/14/16 10:26	91-20-3	
Styrene	ND	ug/L	2.0	2	01/14/16 10:26	6 100-42-5	
Tetrachloroethene	329	ug/L	2.0	2	01/14/16 10:26	6 127-18-4	
Tetrahydrofuran	ND	ug/L	10.0	2	01/14/16 10:26	6 109-99-9	
Toluene	ND	ug/L	2.0	2	01/14/16 10:26	6 108-88-3	
Trichloroethene	ND	ug/L	2.0	2	01/14/16 10:26	6 79-01-6	
Trichlorofluoromethane	ND	ug/L	2.0	2	01/14/16 10:26	5 75-69-4	
Vinyl chloride	ND	ug/L	2.0	2	01/14/16 10:26	6 75-01-4	
Xylene (Total)	ND	ug/L	6.0	2	01/14/16 10:26	6 1330-20-7	
cis-1,2-Dichloroethene	2.0	ug/L	2.0	2	01/14/16 10:26	5 156-59-2	
cis-1,3-Dichloropropene	ND	ug/L	10.0	2	01/14/16 10:26	5 10061-01-5	
n-Butylbenzene	ND	ug/L	2.0	2	01/14/16 10:26	6 104-51-8	
n-Propylbenzene	ND	ug/L	2.0	2	01/14/16 10:26	6 103-65-1	
p-Isopropyltoluene	ND	ug/L	2.0	2	01/14/16 10:26	99-87-6	
sec-Butylbenzene	ND	ug/L	10.0	2	01/14/16 10:26	6 135-98-8	
tert-Butylbenzene	ND	ug/L	2.0	2	01/14/16 10:26	6 98-06-6	
trans-1,2-Dichloroethene	ND	ug/L	2.0	2	01/14/16 10:26	5 156-60-5	
trans-1,3-Dichloropropene	ND	ug/L	40.0	2	01/14/16 10:26	6 10061-02-6	
Surrogates							
4-Bromofluorobenzene (S)	99	%	70-130	2	01/14/16 10:26	6 460-00-4	
Dibromofluoromethane (S)	103	%	70-130	2	01/14/16 10:26	1868-53-7	
Toluene-d8 (S)	92	%	70-130	2	01/14/16 10:26	2037-26-5	



### **ANALYTICAL RESULTS**

Project: City of Rochester

Pace Project No.: 10335670

Date: 01/14/2016 04:23 PM

Sample: MW-18	Lab ID: 103	35670013	Collected: 01/11/1	6 17:55	Received: 0	01/12/16 09:45	Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Met	hod: EPA 82	260					
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		01/14/16 09:41	1 630-20-6	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		01/14/16 09:41	1 71-55-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		01/14/16 09:41	1 79-34-5	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		01/14/16 09:41	1 79-00-5	
1,1,2-Trichlorotrifluoroethane	ND	ug/L	5.0	1		01/14/16 09:4	1 76-13-1	
1,1-Dichloroethane	ND	ug/L	1.0	1		01/14/16 09:41	1 75-34-3	
1,1-Dichloroethene	ND	ug/L	1.0	1		01/14/16 09:41	1 75-35-4	
1,1-Dichloropropene	ND	ug/L	1.0	1		01/14/16 09:41	1 563-58-6	
1,2,3-Trichlorobenzene	ND	ug/L	5.0	1		01/14/16 09:4	1 87-61-6	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		01/14/16 09:4	1 96-18-4	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		01/14/16 09:4		
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1		01/14/16 09:4		
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	1		01/14/16 09:4		
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		01/14/16 09:4		
1,2-Dichlorobenzene	ND	ug/L	1.0	1		01/14/16 09:4		
1,2-Dichloroethane	ND	ug/L	1.0	1		01/14/16 09:4		
1,2-Dichloropropane	ND	ug/L	1.0	1		01/14/16 09:4		
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1		01/14/16 09:4		
1,3-Dichlorobenzene	ND ND	ug/L	1.0	1		01/14/16 09:4		
•	ND ND	-	1.0	1		01/14/16 09:4		
1,3-Dichloropropane 1,4-Dichlorobenzene	ND ND	ug/L	1.0	1		01/14/16 09:4		
•	ND ND	ug/L	1.0	1		01/14/16 09:4		
2,2-Dichloropropane 2-Butanone (MEK)	ND ND	ug/L	20.0	1		01/14/16 09:4		
		ug/L		1				
2-Chlorotoluene	ND	ug/L	1.0			01/14/16 09:41		
4-Chlorotoluene	ND	ug/L	1.0	1		01/14/16 09:41		
4-Methyl-2-pentanone (MIBK)	ND	ug/L	20.0	1		01/14/16 09:41		
Acetone	ND	ug/L	20.0	1		01/14/16 09:4		
Allyl chloride	ND	ug/L	5.0	1		01/14/16 09:4		
Benzene	ND	ug/L	1.0	1		01/14/16 09:4		
Bromobenzene	ND	ug/L	1.0	1		01/14/16 09:4		
Bromochloromethane	ND	ug/L	1.0	1		01/14/16 09:4		
Bromodichloromethane	ND	ug/L	1.0	1		01/14/16 09:4		
Bromoform	ND	ug/L	5.0	1		01/14/16 09:4		
Bromomethane	ND	ug/L	5.0	1		01/14/16 09:4		
Carbon tetrachloride	ND	ug/L	1.0	1		01/14/16 09:4		
Chlorobenzene	ND	ug/L	1.0	1		01/14/16 09:41	1 108-90-7	
Chloroethane	ND	ug/L	1.0	1		01/14/16 09:4	1 75-00-3	
Chloroform	ND	ug/L	5.0	1		01/14/16 09:41	1 67-66-3	
Chloromethane	ND	ug/L	1.0	1		01/14/16 09:4	1 74-87-3	
Dibromochloromethane	ND	ug/L	5.0	1		01/14/16 09:4	1 124-48-1	
Dibromomethane	ND	ug/L	1.0	1		01/14/16 09:4	1 74-95-3	
Dichlorodifluoromethane	ND	ug/L	1.0	1		01/14/16 09:4	1 75-71-8	
Dichlorofluoromethane	ND	ug/L	1.0	1		01/14/16 09:4	1 75-43-4	
Diethyl ether (Ethyl ether)	ND	ug/L	5.0	1		01/14/16 09:4	1 60-29-7	
Ethylbenzene	ND	ug/L	1.0	1		01/14/16 09:4		
Hexachloro-1,3-butadiene	ND	ug/L	5.0	1		01/14/16 09:4		
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		01/14/16 09:4		



Project: City of Rochester

Pace Project No.: 10335670

Date: 01/14/2016 04:23 PM

Sample: MW-18	Lab ID: 103	35670013	Collected: 01/11/1	6 17:55	Received: 01/12/16 09:45	Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared Analyzed	CAS No.	Qual
8260 MSV	Analytical Meth	nod: EPA 82	260				
Methyl-tert-butyl ether	ND	ug/L	1.0	1	01/14/16 09:4	1 1634-04-4	
Methylene Chloride	ND	ug/L	1.0	1	01/14/16 09:4	1 75-09-2	
Naphthalene	ND	ug/L	5.0	1	01/14/16 09:4	1 91-20-3	
Styrene	ND	ug/L	1.0	1	01/14/16 09:4	1 100-42-5	
Tetrachloroethene	156	ug/L	1.0	1	01/14/16 09:4	1 127-18-4	
Tetrahydrofuran	ND	ug/L	5.0	1	01/14/16 09:4	1 109-99-9	
Toluene	ND	ug/L	1.0	1	01/14/16 09:4	1 108-88-3	
Trichloroethene	ND	ug/L	1.0	1	01/14/16 09:4	1 79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1	01/14/16 09:4	1 75-69-4	
Vinyl chloride	ND	ug/L	1.0	1	01/14/16 09:4	1 75-01-4	
Xylene (Total)	ND	ug/L	3.0	1	01/14/16 09:4	1 1330-20-7	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1	01/14/16 09:4	1 156-59-2	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1	01/14/16 09:4	1 10061-01-5	
n-Butylbenzene	ND	ug/L	1.0	1	01/14/16 09:4	1 104-51-8	
n-Propylbenzene	ND	ug/L	1.0	1	01/14/16 09:4	1 103-65-1	
p-Isopropyltoluene	ND	ug/L	1.0	1	01/14/16 09:4	1 99-87-6	
sec-Butylbenzene	ND	ug/L	5.0	1	01/14/16 09:4	1 135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	1	01/14/16 09:4	1 98-06-6	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1	01/14/16 09:4	1 156-60-5	
trans-1,3-Dichloropropene <b>Surrogates</b>	ND	ug/L	20.0	1	01/14/16 09:4	1 10061-02-6	
4-Bromofluorobenzene (S)	99	%	70-130	1	01/14/16 09:4	1 460-00-4	
Dibromofluoromethane (S)	106	%	70-130	1	01/14/16 09:4	1 1868-53-7	
Toluene-d8 (S)	97	%	70-130	1	01/14/16 09:4	1 2037-26-5	



### **ANALYTICAL RESULTS**

Project: City of Rochester

Pace Project No.: 10335670

Date: 01/14/2016 04:23 PM

Sample: MW-19	Lab ID: 103	35670014	Collected: 01/11/1	6 12:40	Received: (	01/12/16 09:45	Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qua
8260 MSV	Analytical Met	hod: EPA 82	260					
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		01/13/16 17:5	4 630-20-6	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		01/13/16 17:5	4 71-55-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		01/13/16 17:5	4 79-34-5	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		01/13/16 17:5	4 79-00-5	
1,1,2-Trichlorotrifluoroethane	ND	ug/L	5.0	1		01/13/16 17:5	4 76-13-1	
1,1-Dichloroethane	ND	ug/L	1.0	1		01/13/16 17:5	4 75-34-3	
1,1-Dichloroethene	ND	ug/L	1.0	1		01/13/16 17:5	4 75-35-4	
1,1-Dichloropropene	ND	ug/L	1.0	1		01/13/16 17:5	4 563-58-6	
1,2,3-Trichlorobenzene	ND	ug/L	5.0	1		01/13/16 17:5	4 87-61-6	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		01/13/16 17:5		
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		01/13/16 17:5		
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1		01/13/16 17:5		
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	1		01/13/16 17:5		
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		01/13/16 17:5		
1,2-Dichlorobenzene	ND	ug/L	1.0	1		01/13/16 17:5		
1,2-Dichloroethane	ND ND	-	1.0	1		01/13/16 17:5		
1,2-Dichloropropane	ND ND	ug/L	1.0	1		01/13/16 17:5		
• •		ug/L		1				
1,3,5-Trimethylbenzene	ND	ug/L	1.0			01/13/16 17:5		
1,3-Dichlorobenzene	ND	ug/L	1.0	1		01/13/16 17:5		
1,3-Dichloropropane	ND	ug/L	1.0	1		01/13/16 17:5		
1,4-Dichlorobenzene	ND	ug/L	1.0	1		01/13/16 17:5		
2,2-Dichloropropane	ND	ug/L	1.0	1		01/13/16 17:5		
2-Butanone (MEK)	ND	ug/L	20.0	1		01/13/16 17:5		
2-Chlorotoluene	ND	ug/L	1.0	1		01/13/16 17:5		
4-Chlorotoluene	ND	ug/L	1.0	1		01/13/16 17:5		
4-Methyl-2-pentanone (MIBK)	ND	ug/L	20.0	1		01/13/16 17:5		
Acetone	ND	ug/L	20.0	1		01/13/16 17:5	4 67-64-1	
Allyl chloride	ND	ug/L	5.0	1		01/13/16 17:5	4 107-05-1	
Benzene	ND	ug/L	1.0	1		01/13/16 17:5	4 71-43-2	
Bromobenzene	ND	ug/L	1.0	1		01/13/16 17:5	4 108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		01/13/16 17:5	4 74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		01/13/16 17:5	4 75-27-4	
Bromoform	ND	ug/L	5.0	1		01/13/16 17:5	4 75-25-2	
Bromomethane	ND	ug/L	5.0	1		01/13/16 17:5	4 74-83-9	
Carbon tetrachloride	ND	ug/L	1.0	1		01/13/16 17:5	4 56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		01/13/16 17:5	4 108-90-7	
Chloroethane	ND	ug/L	1.0	1		01/13/16 17:5		
Chloroform	ND	ug/L	5.0	1		01/13/16 17:5	4 67-66-3	
Chloromethane	ND	ug/L	1.0	1		01/13/16 17:5		
Dibromochloromethane	ND	ug/L	5.0	1		01/13/16 17:5		
Dibromomethane	ND	ug/L	1.0	1		01/13/16 17:5		
Dichlorodifluoromethane	ND	ug/L	1.0	1		01/13/16 17:5		
Dichlorodination methane	ND	ug/L	1.0	1		01/13/16 17:5		
Diethyl ether (Ethyl ether)	ND ND	ug/L ug/L	5.0	1		01/13/16 17:5		
Ethylbenzene	ND ND	-	1.0	1		01/13/16 17:5		
trrybbenzene Hexachloro-1,3-butadiene		ug/L						
nexachioro- i3-butadiene	ND	ug/L	5.0	1		01/13/16 17:5	4 0/-00-J	





Project: City of Rochester

Pace Project No.: 10335670

Date: 01/14/2016 04:23 PM

Sample: MW-19	Lab ID: 103	35670014	Collected: 01/11/1	6 12:40	Received: 01	/12/16 09:45 N	Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qua
8260 MSV	Analytical Meth	nod: EPA 82	260					
Methyl-tert-butyl ether	ND	ug/L	1.0	1		01/13/16 17:54	1634-04-4	
Methylene Chloride	ND	ug/L	1.0	1		01/13/16 17:54	75-09-2	
Naphthalene	ND	ug/L	5.0	1		01/13/16 17:54	91-20-3	
Styrene	ND	ug/L	1.0	1		01/13/16 17:54	100-42-5	
Tetrachloroethene	36.1	ug/L	1.0	1		01/13/16 17:54	127-18-4	
Tetrahydrofuran	ND	ug/L	5.0	1		01/13/16 17:54	109-99-9	
Toluene	ND	ug/L	1.0	1		01/13/16 17:54	108-88-3	
Trichloroethene	ND	ug/L	1.0	1		01/13/16 17:54	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		01/13/16 17:54	75-69-4	
Vinyl chloride	ND	ug/L	1.0	1		01/13/16 17:54	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		01/13/16 17:54	1330-20-7	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		01/13/16 17:54	156-59-2	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		01/13/16 17:54	10061-01-5	
n-Butylbenzene	ND	ug/L	1.0	1		01/13/16 17:54	104-51-8	
n-Propylbenzene	ND	ug/L	1.0	1		01/13/16 17:54	103-65-1	
p-Isopropyltoluene	ND	ug/L	1.0	1		01/13/16 17:54	99-87-6	
sec-Butylbenzene	ND	ug/L	5.0	1		01/13/16 17:54	135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	1		01/13/16 17:54	98-06-6	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		01/13/16 17:54	156-60-5	
trans-1,3-Dichloropropene	ND	ug/L	20.0	1		01/13/16 17:54	10061-02-6	
<b>Surrogates</b> 4-Bromofluorobenzene (S)	100	%	70-130	1		01/13/16 17:54	460-00-4	
Dibromofluoromethane (S)	104	%	70-130	1		01/13/16 17:54	1868-53-7	
Toluene-d8 (S)	99	%	70-130	1		01/13/16 17:54	2037-26-5	



### **ANALYTICAL RESULTS**

Project: City of Rochester

Pace Project No.: 10335670

Date: 01/14/2016 04:23 PM

Sample: MW-20	Lab ID: 103	35670015	Collected: 01/11/1	6 14:15	Received: 0	01/12/16 09:45	Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Met	hod: EPA 82	260					
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		01/14/16 10:03	3 630-20-6	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		01/14/16 10:03	3 71-55-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		01/14/16 10:03	3 79-34-5	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		01/14/16 10:03	3 79-00-5	
1,1,2-Trichlorotrifluoroethane	ND	ug/L	5.0	1		01/14/16 10:03	3 76-13-1	
1,1-Dichloroethane	ND	ug/L	1.0	1		01/14/16 10:03	3 75-34-3	
1,1-Dichloroethene	ND	ug/L	1.0	1		01/14/16 10:03	3 75-35-4	
1,1-Dichloropropene	ND	ug/L	1.0	1		01/14/16 10:03	3 563-58-6	
1,2,3-Trichlorobenzene	ND	ug/L	5.0	1		01/14/16 10:03	87-61-6	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		01/14/16 10:03	3 96-18-4	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		01/14/16 10:03	3 120-82-1	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1		01/14/16 10:03	3 95-63-6	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	1		01/14/16 10:03		
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		01/14/16 10:03		
1,2-Dichlorobenzene	ND	ug/L	1.0	1		01/14/16 10:03		
1,2-Dichloroethane	ND	ug/L	1.0	1		01/14/16 10:03		
1,2-Dichloropropane	ND	ug/L	1.0	1		01/14/16 10:03		
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1		01/14/16 10:03		
1,3-Dichlorobenzene	ND	ug/L	1.0	1		01/14/16 10:03		
1,3-Dichloropropane	ND ND	ug/L	1.0	1		01/14/16 10:03		
1,4-Dichlorobenzene	ND ND	ug/L	1.0	1		01/14/16 10:03		
2,2-Dichloropropane	ND ND	-	1.0	1		01/14/16 10:03		
	ND	ug/L	20.0	1		01/14/16 10:03		
2-Butanone (MEK)		ug/L		1				
2-Chlorotoluene	ND	ug/L	1.0	1		01/14/16 10:03		
4-Chlorotoluene	ND	ug/L	1.0			01/14/16 10:03		
4-Methyl-2-pentanone (MIBK)	ND	ug/L	20.0	1		01/14/16 10:03		
Acetone	ND	ug/L	20.0	1		01/14/16 10:03		
Allyl chloride	ND	ug/L	5.0	1		01/14/16 10:03		
Benzene	ND	ug/L	1.0	1		01/14/16 10:03		
Bromobenzene	ND	ug/L	1.0	1		01/14/16 10:03		
Bromochloromethane	ND	ug/L	1.0	1		01/14/16 10:03		
Bromodichloromethane	ND	ug/L	1.0	1		01/14/16 10:03		
Bromoform	ND	ug/L	5.0	1		01/14/16 10:03		
Bromomethane	ND	ug/L	5.0	1		01/14/16 10:03		
Carbon tetrachloride	ND	ug/L	1.0	1		01/14/16 10:03		
Chlorobenzene	ND	ug/L	1.0	1		01/14/16 10:03		
Chloroethane	ND	ug/L	1.0	1		01/14/16 10:03	3 75-00-3	
Chloroform	ND	ug/L	5.0	1		01/14/16 10:03	3 67-66-3	
Chloromethane	ND	ug/L	1.0	1		01/14/16 10:03	3 74-87-3	
Dibromochloromethane	ND	ug/L	5.0	1		01/14/16 10:03	3 124-48-1	
Dibromomethane	ND	ug/L	1.0	1		01/14/16 10:03	3 74-95-3	
Dichlorodifluoromethane	ND	ug/L	1.0	1		01/14/16 10:03	3 75-71-8	
Dichlorofluoromethane	ND	ug/L	1.0	1		01/14/16 10:03	3 75-43-4	
Diethyl ether (Ethyl ether)	ND	ug/L	5.0	1		01/14/16 10:03	8 60-29-7	
Ethylbenzene	ND	ug/L	1.0	1		01/14/16 10:03	3 100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	5.0	1		01/14/16 10:03	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		01/14/16 10:03	8 98-82-8	

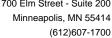


Project: City of Rochester

Pace Project No.: 10335670

Date: 01/14/2016 04:23 PM

Sample: MW-20	Lab ID: 103	35670015	Collected: 01/11/1	6 14:15	Received: 01/12/16 09:45	Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared Analyzed	CAS No.	Qual
8260 MSV	Analytical Meth	nod: EPA 82	260				
Methyl-tert-butyl ether	ND	ug/L	1.0	1	01/14/16 10:0	3 1634-04-4	
Methylene Chloride	ND	ug/L	1.0	1	01/14/16 10:0	3 75-09-2	
Naphthalene	ND	ug/L	5.0	1	01/14/16 10:0	3 91-20-3	
Styrene	ND	ug/L	1.0	1	01/14/16 10:0	3 100-42-5	
Tetrachloroethene	27.5	ug/L	1.0	1	01/14/16 10:0	3 127-18-4	
Tetrahydrofuran	ND	ug/L	5.0	1	01/14/16 10:0	3 109-99-9	
Toluene	ND	ug/L	1.0	1	01/14/16 10:0	3 108-88-3	
Trichloroethene	ND	ug/L	1.0	1	01/14/16 10:0	3 79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1	01/14/16 10:0	3 75-69-4	
Vinyl chloride	ND	ug/L	1.0	1	01/14/16 10:0	3 75-01-4	
Xylene (Total)	ND	ug/L	3.0	1	01/14/16 10:0	3 1330-20-7	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1	01/14/16 10:0	3 156-59-2	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1	01/14/16 10:0	3 10061-01-5	
n-Butylbenzene	ND	ug/L	1.0	1	01/14/16 10:0	3 104-51-8	
n-Propylbenzene	ND	ug/L	1.0	1	01/14/16 10:0	3 103-65-1	
p-Isopropyltoluene	ND	ug/L	1.0	1	01/14/16 10:0	3 99-87-6	
sec-Butylbenzene	ND	ug/L	5.0	1	01/14/16 10:0	3 135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	1	01/14/16 10:0	3 98-06-6	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1	01/14/16 10:0	3 156-60-5	
trans-1,3-Dichloropropene <b>Surrogates</b>	ND	ug/L	20.0	1	01/14/16 10:0	3 10061-02-6	
4-Bromofluorobenzene (S)	100	%	70-130	1	01/14/16 10:0	3 460-00-4	
Dibromofluoromethane (S)	106	%	70-130	1	01/14/16 10:0	3 1868-53-7	
Toluene-d8 (S)	96	%	70-130	1	01/14/16 10:0	3 2037-26-5	



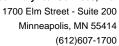


Project: City of Rochester

Pace Project No.: 10335670

Date: 01/14/2016 04:23 PM

Sample: TRIP BLANK	Lab ID: 10	335670016	Collected: 01/11/1	6 00:00	Received: (	01/12/16 09:45	Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qua
3260 MSV	Analytical Me	thod: EPA 82	260					
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		01/13/16 18:1	6 630-20-6	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		01/13/16 18:1	6 71-55-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		01/13/16 18:1	6 79-34-5	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		01/13/16 18:1	6 79-00-5	
1,1,2-Trichlorotrifluoroethane	ND	ug/L	5.0	1		01/13/16 18:1	6 76-13-1	
1,1-Dichloroethane	ND	ug/L	1.0	1		01/13/16 18:1	6 75-34-3	
1,1-Dichloroethene	ND	ug/L	1.0	1		01/13/16 18:1	6 75-35-4	
1,1-Dichloropropene	ND	ug/L	1.0	1		01/13/16 18:1	6 563-58-6	
I,2,3-Trichlorobenzene	ND	ug/L	5.0	1		01/13/16 18:1	6 87-61-6	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		01/13/16 18:1		
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		01/13/16 18:1		
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1		01/13/16 18:1		
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	1		01/13/16 18:1		
1,2-Dibromoethane (EDB)	ND ND	ug/L	1.0	1		01/13/16 18:1		
* * *		•		1				
1,2-Dichlorobenzene	ND	ug/L	1.0			01/13/16 18:1		
I,2-Dichloroethane	ND	ug/L	1.0	1		01/13/16 18:1		
,2-Dichloropropane	ND	ug/L	1.0	1		01/13/16 18:1		
,3,5-Trimethylbenzene	ND	ug/L	1.0	1		01/13/16 18:1		
,3-Dichlorobenzene	ND	ug/L	1.0	1		01/13/16 18:1		
,3-Dichloropropane	ND	ug/L	1.0	1		01/13/16 18:1		
,4-Dichlorobenzene	ND	ug/L	1.0	1		01/13/16 18:1	6 106-46-7	
2,2-Dichloropropane	ND	ug/L	1.0	1		01/13/16 18:1	6 594-20-7	
2-Butanone (MEK)	ND	ug/L	20.0	1		01/13/16 18:1	6 78-93-3	
2-Chlorotoluene	ND	ug/L	1.0	1		01/13/16 18:1	6 95-49-8	
I-Chlorotoluene	ND	ug/L	1.0	1		01/13/16 18:1	6 106-43-4	
I-Methyl-2-pentanone (MIBK)	ND	ug/L	20.0	1		01/13/16 18:1	6 108-10-1	
Acetone	ND	ug/L	20.0	1		01/13/16 18:1	6 67-64-1	
Allyl chloride	ND	ug/L	5.0	1		01/13/16 18:1	6 107-05-1	
Benzene	ND	ug/L	1.0	1		01/13/16 18:1		
Bromobenzene	ND	ug/L	1.0	1		01/13/16 18:1		
Bromochloromethane	ND	ug/L	1.0	1		01/13/16 18:1		
Bromodichloromethane	ND	ug/L	1.0	1		01/13/16 18:1		
Bromoform	ND	ug/L	5.0	1		01/13/16 18:1	-	
Bromomethane	ND	ug/L	5.0	1		01/13/16 18:1		
Carbon tetrachloride	ND ND	•	1.0	1		01/13/16 18:1		
		ug/L						
Chlorobenzene Chloroethane	ND	ug/L	1.0	1		01/13/16 18:1		
	ND	ug/L	1.0	1		01/13/16 18:1		
Chloroform	ND	ug/L	5.0	1		01/13/16 18:1		
Chloromethane	ND	ug/L	1.0	1		01/13/16 18:1		
Dibromochloromethane	ND	ug/L	5.0	1		01/13/16 18:1		
Dibromomethane	ND	ug/L	1.0	1		01/13/16 18:1		
Dichlorodifluoromethane	ND	ug/L	1.0	1		01/13/16 18:1		
Dichlorofluoromethane	ND	ug/L	1.0	1		01/13/16 18:1	6 75-43-4	
Diethyl ether (Ethyl ether)	ND	ug/L	5.0	1		01/13/16 18:1	6 60-29-7	
thylbenzene	ND	ug/L	1.0	1		01/13/16 18:1	6 100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	5.0	1		01/13/16 18:1	6 87-68-3	
sopropylbenzene (Cumene)	ND	ug/L	1.0	1		01/13/16 18:1	6 98-82-8	





Project: City of Rochester

Pace Project No.: 10335670

Date: 01/14/2016 04:23 PM

Sample: TRIP BLANK	Lab ID: 103	35670016	Collected: 01/11/1	6 00:00	Received: 0	1/12/16 09:45 N	Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qua
8260 MSV	Analytical Meth	nod: EPA 82	260					
Methyl-tert-butyl ether	ND	ug/L	1.0	1		01/13/16 18:16	1634-04-4	
Methylene Chloride	ND	ug/L	1.0	1		01/13/16 18:16	75-09-2	
Naphthalene	ND	ug/L	5.0	1		01/13/16 18:16	91-20-3	
Styrene	ND	ug/L	1.0	1		01/13/16 18:16	100-42-5	
Tetrachloroethene	ND	ug/L	1.0	1		01/13/16 18:16	127-18-4	
Tetrahydrofuran	ND	ug/L	5.0	1		01/13/16 18:16	109-99-9	
Toluene	ND	ug/L	1.0	1		01/13/16 18:16	108-88-3	
Trichloroethene	ND	ug/L	1.0	1		01/13/16 18:16	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		01/13/16 18:16	75-69-4	
Vinyl chloride	ND	ug/L	1.0	1		01/13/16 18:16	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		01/13/16 18:16	1330-20-7	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		01/13/16 18:16	156-59-2	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		01/13/16 18:16	10061-01-5	
n-Butylbenzene	ND	ug/L	1.0	1		01/13/16 18:16	104-51-8	
n-Propylbenzene	ND	ug/L	1.0	1		01/13/16 18:16	103-65-1	
p-Isopropyltoluene	ND	ug/L	1.0	1		01/13/16 18:16	99-87-6	
sec-Butylbenzene	ND	ug/L	5.0	1		01/13/16 18:16	135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	1		01/13/16 18:16	98-06-6	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		01/13/16 18:16	156-60-5	
trans-1,3-Dichloropropene <b>Surrogates</b>	ND	ug/L	20.0	1		01/13/16 18:16	10061-02-6	
4-Bromofluorobenzene (S)	101	%	70-130	1		01/13/16 18:16	460-00-4	
Dibromofluoromethane (S)	99	%	70-130	1		01/13/16 18:16	1868-53-7	
Toluene-d8 (S)	99	%	70-130	1		01/13/16 18:16	2037-26-5	



### **QUALITY CONTROL DATA**

Project: City of Rochester

Pace Project No.: 10335670

QC Batch: MSV/31872 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV

Associated Lab Samples: 10335670001, 10335670002, 10335670003, 10335670004, 10335670005, 10335670006, 10335670007,

10335670008, 10335670009, 10335670010, 10335670011, 10335670012, 10335670013, 10335670014,

10335670015, 10335670016

METHOD BLANK: 1283098 Matrix: Water

Associated Lab Samples:

Date: 01/14/2016 04:23 PM

Associated Lab Camples.		Blank	Reporting		
Parameter	Units	Result	Limit	Analyzed	Qualifiers
	<u> </u>				
1,1,1,2-Tetrachloroethane	ug/L	ND	1.0	01/13/16 14:54	
1,1,1-Trichloroethane	ug/L	ND	1.0	01/13/16 14:54	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	01/13/16 14:54	
1,1,2-Trichloroethane	ug/L	ND	1.0	01/13/16 14:54	
1,1,2-Trichlorotrifluoroethane	ug/L	ND	5.0		
1,1-Dichloroethane	ug/L	ND	1.0		
1,1-Dichloroethene	ug/L	ND	1.0		
1,1-Dichloropropene	ug/L	ND	1.0		
1,2,3-Trichlorobenzene	ug/L	ND	5.0		
1,2,3-Trichloropropane	ug/L	ND	1.0	01/13/16 14:54	
1,2,4-Trichlorobenzene	ug/L	ND	5.0	01/13/16 14:54	
1,2,4-Trimethylbenzene	ug/L	ND	1.0		
1,2-Dibromo-3-chloropropane	ug/L	ND	5.0		
1,2-Dibromoethane (EDB)	ug/L	ND	1.0		
1,2-Dichlorobenzene	ug/L	ND	1.0	01/13/16 14:54	
1,2-Dichloroethane	ug/L	ND	1.0	01/13/16 14:54	
1,2-Dichloropropane	ug/L	ND	1.0	01/13/16 14:54	
1,3,5-Trimethylbenzene	ug/L	ND	1.0	01/13/16 14:54	
1,3-Dichlorobenzene	ug/L	ND	1.0	01/13/16 14:54	
1,3-Dichloropropane	ug/L	ND	1.0	01/13/16 14:54	
1,4-Dichlorobenzene	ug/L	ND	1.0	01/13/16 14:54	
2,2-Dichloropropane	ug/L	ND	1.0	01/13/16 14:54	
2-Butanone (MEK)	ug/L	ND	20.0	01/13/16 14:54	
2-Chlorotoluene	ug/L	ND	1.0	01/13/16 14:54	
4-Chlorotoluene	ug/L	ND	1.0	01/13/16 14:54	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	5.0	01/13/16 14:54	
Acetone	ug/L	ND	20.0	01/13/16 14:54	
Allyl chloride	ug/L	ND	5.0	01/13/16 14:54	
Benzene	ug/L	ND	1.0	01/13/16 14:54	
Bromobenzene	ug/L	ND	1.0	01/13/16 14:54	
Bromochloromethane	ug/L	ND	1.0	01/13/16 14:54	
Bromodichloromethane	ug/L	ND	1.0	01/13/16 14:54	
Bromoform	ug/L	ND	1.0	01/13/16 14:54	
Bromomethane	ug/L	ND	5.0	01/13/16 14:54	
Carbon tetrachloride	ug/L	ND	1.0	01/13/16 14:54	
Chlorobenzene	ug/L	ND	1.0	01/13/16 14:54	
Chloroethane	ug/L	ND	1.0	01/13/16 14:54	
Chloroform	ug/L	ND	5.0		
Chloromethane	ug/L	ND	1.0	01/13/16 14:54	
cis-1,2-Dichloroethene	ug/L	ND	1.0	01/13/16 14:54	
,	3	.,_			

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.



### **QUALITY CONTROL DATA**

Project: City of Rochester

Pace Project No.: 10335670

METHOD BLANK: 1283098 Matrix: Water

Associated Lab Samples:

Date: 01/14/2016 04:23 PM

Danamatan		Blank	Reporting		
Parameter	Units	Result	Limit	Analyzed	Qualifiers
cis-1,3-Dichloropropene	ug/L	ND	1.0	01/13/16 14:54	
Dibromochloromethane	ug/L	ND	1.0	01/13/16 14:54	
Dibromomethane	ug/L	ND	1.0	01/13/16 14:54	
Dichlorodifluoromethane	ug/L	ND	1.0	01/13/16 14:54	
Dichlorofluoromethane	ug/L	ND	1.0	01/13/16 14:54	
Diethyl ether (Ethyl ether)	ug/L	ND	5.0	01/13/16 14:54	
Ethylbenzene	ug/L	ND	1.0	01/13/16 14:54	
Hexachloro-1,3-butadiene	ug/L	ND	5.0	01/13/16 14:54	
Isopropylbenzene (Cumene)	ug/L	ND	1.0	01/13/16 14:54	
Methyl-tert-butyl ether	ug/L	ND	1.0	01/13/16 14:54	
Methylene Chloride	ug/L	ND	1.0	01/13/16 14:54	
n-Butylbenzene	ug/L	ND	1.0	01/13/16 14:54	
n-Propylbenzene	ug/L	ND	1.0	01/13/16 14:54	
Naphthalene	ug/L	ND	5.0	01/13/16 14:54	
p-Isopropyltoluene	ug/L	ND	1.0	01/13/16 14:54	
sec-Butylbenzene	ug/L	ND	5.0	01/13/16 14:54	
Styrene	ug/L	ND	1.0	01/13/16 14:54	
tert-Butylbenzene	ug/L	ND	1.0	01/13/16 14:54	
Tetrachloroethene	ug/L	ND	1.0	01/13/16 14:54	
Tetrahydrofuran	ug/L	ND	5.0	01/13/16 14:54	
Toluene	ug/L	ND	1.0	01/13/16 14:54	
trans-1,2-Dichloroethene	ug/L	ND	1.0	01/13/16 14:54	
trans-1,3-Dichloropropene	ug/L	ND	1.0	01/13/16 14:54	
Trichloroethene	ug/L	ND	1.0	01/13/16 14:54	
Trichlorofluoromethane	ug/L	ND	1.0	01/13/16 14:54	
Vinyl chloride	ug/L	ND	1.0	01/13/16 14:54	
Xylene (Total)	ug/L	ND	3.0	01/13/16 14:54	
4-Bromofluorobenzene (S)	%	99	70-130	01/13/16 14:54	
Dibromofluoromethane (S)	%	102	70-130	01/13/16 14:54	
Toluene-d8 (S)	%	99	70-130	01/13/16 14:54	

LABORATORY CONTROL SAMPLE:	1283099					
		Spike	LCS	LCS	% Rec	
Parameter	Units	Conc.	Result	% Rec	Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	20	21.2	106	70-130	_
1,1,2,2-Tetrachloroethane	ug/L	20	18.4	92	70-130	
1,1,2-Trichloroethane	ug/L	20	19.9	100	70-130	
1,1,2-Trichlorotrifluoroethane	ug/L	20	21.7	109	50-150	
1,1-Dichloroethane	ug/L	20	19.4	97	70-130	
1,1-Dichloroethene	ug/L	20	20.5	103	70-130	
1,2,4-Trichlorobenzene	ug/L	20	19.5	98	70-130	
1,2-Dibromo-3-chloropropane	ug/L	20	19.7	99	50-150	
1,2-Dibromoethane (EDB)	ug/L	20	19.6	98	70-130	
1,2-Dichlorobenzene	ug/L	20	21.1	105	70-130	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.



### **QUALITY CONTROL DATA**

Project: City of Rochester

Pace Project No.: 10335670

Date: 01/14/2016 04:23 PM

ABORATORY CONTROL SAMPLE:	1283099					
		Spike	LCS	LCS	% Rec	
Parameter	Units	Conc.	Result	% Rec	Limits	Qualifiers
2-Dichloroethane	ug/L	20	20.2	101	70-131	
2-Dichloropropane	ug/L	20	19.7	99	70-130	
3-Dichlorobenzene	ug/L	20	20.8	104	70-130	
I-Dichlorobenzene	ug/L	20	21.8	109	70-130	
enzene	ug/L	20	19.4	97	70-130	
omodichloromethane	ug/L	20	20.6	103	70-130	
omoform	ug/L	20	18.1	90	68-130	
omomethane	ug/L	20	16.4	82	38-137	
rbon tetrachloride	ug/L	20	20.9	105	70-130	
orobenzene	ug/L	20	20.9	104	70-130	
lloroethane	ug/L	20	15.4	77	70-136	
loroform	ug/L	20	21.7	108	70-130	
lloromethane	ug/L	20	18.8	94	48-144	
-1,2-Dichloroethene	ug/L	20	19.6	98	70-130	
1,3-Dichloropropene	ug/L	20	20.5	103	70-130	
promochloromethane	ug/L	20	19.4	97	70-130	
nlorodifluoromethane	ug/L	20	19.8	99	33-157	
ylbenzene	ug/L	20	21.1	105	70-132	
propylbenzene (Cumene)	ug/L	20	22.7	114	70-130	
thyl-tert-butyl ether	ug/L	20	20.4	102	48-141	
thylene Chloride	ug/L	20	18.3	92	70-130	
rene	ug/L	20	21.4	107	70-130	
rachloroethene	ug/L	20	19.7	98	70-130	
uene	ug/L	20	20.0	100	70-130	
ns-1,2-Dichloroethene	ug/L	20	20.3	102	70-130	
ns-1,3-Dichloropropene	ug/L	20	20.0	100	70-130	
chloroethene	ug/L	20	20.6	103	70-130	
chlorofluoromethane	ug/L	20	21.1	106	50-150	
yl chloride	ug/L	20	19.9	100	65-142	
ene (Total)	ug/L	60	62.6	104	70-132	
romofluorobenzene (S)	%			106	70-130	
romofluoromethane (S)	%			103	70-130	
uene-d8 (S)	%			97	70-130	

MATRIX SPIKE & MATRIX SPIR	(E DUPLIC	CATE: 12835	36		1283537							
Parameter	Units	10335670012 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1,1-Trichloroethane	ug/L	ND	500	500	525	505	105	101	70-130	4	20	
1,1,2,2-Tetrachloroethane	ug/L	ND	500	500	437	490	87	98	70-130	12	20	
1,1,2-Trichloroethane	ug/L	ND	500	500	458	477	92	95	70-130	4	20	
1,1,2-Trichlorotrifluoroethane	ug/L	18.2	500	500	555	542	107	105	50-151	3	20	
1,1-Dichloroethane	ug/L	ND	500	500	476	462	95	92	70-134	3	20	
1,1-Dichloroethene	ug/L	ND	500	500	487	472	97	94	70-139	3	20	
1,2,4-Trichlorobenzene	ug/L	ND	500	500	461	467	92	93	70-130	1	20	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

### **REPORT OF LABORATORY ANALYSIS**

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### **QUALITY CONTROL DATA**

Project: City of Rochester

Pace Project No.: 10335670

Date: 01/14/2016 04:23 PM

MATRIX SPIKE & MATRIX SPIR	KE DUPLIC	ATE: 12835			1283537							
			MS	MSD								
		10335670012	Spike	Spike	MS	MSD	MS	MSD	% Rec		Max	
Parameter	Units	Result	Conc.	Conc.	Result	Result	% Rec	% Rec	Limits	RPD	RPD	Qu
1,2-Dibromo-3- chloropropane	ug/L	ND	500	500	420	440	84	88	50-150	5	20	
1,2-Dibromoethane (EDB)	ug/L	ND	500	500	437	454	87	91	70-130	4	20	
1,2-Dichlorobenzene	ug/L	ND	500	500	478	477	96	95	70-130	0	20	
1,2-Dichloroethane	ug/L	ND	500	500	458	454	92	91	70-132	1	20	
1,2-Dichloropropane	ug/L	ND	500	500	457	458	91	92	70-130	0	20	
1,3-Dichlorobenzene	ug/L	ND	500	500	477	479	95	96	70-130	0	20	
,4-Dichlorobenzene	ug/L	ND	500	500	476	485	95	97	70-130	2	20	
Benzene	ug/L	ND	500	500	471	461	94	92	70-130	2	20	
Bromodichloromethane	ug/L	ND	500	500	462	457	92	91	70-132	1	20	
Bromoform	ug/L	ND	500	500	414	383	83	77	68-130	8	20	
Bromomethane	ug/L	ND	500	500	448	498	90	100	38-141	10	20	
Carbon tetrachloride	ug/L	ND	500	500	527	512	105	102	70-130	3	20	
Chlorobenzene	ug/L	ND	500	500	488	479	98	96	70-130	2	20	
Chloroethane	ug/L	ND	500	500	404	380	81	76	66-152	6	20	
Chloroform	ug/L	ND	500	500	504	492	101	98	70-130	2	20	
Chloromethane	ug/L	ND	500	500	459	453	92	91	44-151	1	20	
is-1,2-Dichloroethene	ug/L	2.0	500	500	440	451	88	90	70-130	3	20	
is-1,3-Dichloropropene	ug/L	ND	500	500	460	479	92	96	70-130	4	20	
Dibromochloromethane	ug/L	ND	500	500	451	431	90	86	70-130	5	20	
Dichlorodifluoromethane	ug/L	ND	500	500	466	446	93	89	29-160	4	20	
Ethylbenzene	ug/L	ND	500	500	484	471	97	94	70-132	3	20	
sopropylbenzene (Cumene)	ug/L	ND	500	500	518	509	104	102	70-130	2	20	
Methyl-tert-butyl ether	ug/L	ND	500	500	452	475	90	95	48-143	5	20	
Methylene Chloride	ug/L	ND	500	500	468	440	94	88	70-130	6	20	
Styrene	ug/L	ND	500	500	460	432	92	86	70-130	6	20	
etrachloroethene	ug/L	329	500	500	804	813	95	97	70-130	1	20	
oluene	ug/L	ND	500	500	485	481	97	96	70-130	1	20	
rans-1,2-Dichloroethene	ug/L	ND	500	500	492	478	98	96	70-130	3	20	
rans-1,3-Dichloropropene	ug/L	ND ND	500	500	464	478	93	96	70-132	3	20	
richloroethene	ug/L	ND ND	500	500	489	497	98	99	70-130	2	20	
richlorofluoromethane	ug/L ug/L	ND ND	500	500	514	513	103	103	50-153	0	20	
/inyl chloride	ug/L ug/L	ND ND	500	500	485	482	97	96	60-155	1	20	
(ylene (Total)	ug/L ug/L	ND ND	1500	1500	1390	1350	92	90	70-132	3	20	
-Bromofluorobenzene (S)	ug/L %	ND	1300	1500	1390	1330	98	99	70-132	3	20	
Dibromofluoromethane (S)	%						100	98	70-130			
Toluene-d8 (S)	%						100	100	70-130			

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.



### **QUALIFIERS**

Project: City of Rochester Pace Project No.: 10335670

### **DEFINITIONS**

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

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.

PQL - Practical Quantitation Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

**DUP - Sample Duplicate** 

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

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

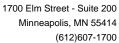
Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

### **LABORATORIES**

Date: 01/14/2016 04:23 PM

PASI-G Pace Analytical Services - Green Bay





### **QUALITY CONTROL DATA CROSS REFERENCE TABLE**

Project: City of Rochester

Pace Project No.: 10335670

Date: 01/14/2016 04:23 PM

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10335670001	DPE-1	EPA 8260	MSV/31872		
10335670002	DPE-2	EPA 8260	MSV/31872		
10335670003	DPE-3	EPA 8260	MSV/31872		
10335670004	DPE-4	EPA 8260	MSV/31872		
10335670005	DPE-5	EPA 8260	MSV/31872		
10335670006	DPE-6	EPA 8260	MSV/31872		
10335670007	DPE-7	EPA 8260	MSV/31872		
10335670008	DPE-8	EPA 8260	MSV/31872		
10335670009	MW-14	EPA 8260	MSV/31872		
10335670010	MW-15	EPA 8260	MSV/31872		
10335670011	MW-16	EPA 8260	MSV/31872		
10335670012	MW-17	EPA 8260	MSV/31872		
10335670013	MW-18	EPA 8260	MSV/31872		
10335670014	MW-19	EPA 8260	MSV/31872		
10335670015	MW-20	EPA 8260	MSV/31872		
10335670016	TRIP BLANK	EPA 8260	MSV/31872		

# CHAIN-OF-CUSTODY / Analytical Request Document

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

01955501

Pace Analytical" www.pacelabs.com

3333 Pace Project No./ Lab I.D. (V/V) **DRINKING WATER** Samples Intact F-ALL-Q-020rev.07, 15-May-2007 980563 SAMPLE CONDITIONS OTHER (N/Y) Custody Sealed Cooler Ice (Y/N) Received on GROUND WATER Residual Chlorine (Y/N) <u>"</u> O° ni qmeT Page: REGULATORY AGENCY RCRA Requested Analysis Filtered (Y/N) やが TIME STATE: 5 Site Location NPDES DATE UST L DATE Signed (MM/DD/YY): TOSEPTED BY / AFFILIATION JaaT siaylanA J Les Contracts N/A Other アドク 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 Methanol Preservatives Na₂S₂O₃ NaOH Target Land HCI HNO Company Name: 7.000 Pace Quote Reference: Pace Project Manager: Pace Profile #: ^⁵OS[₹]H Section C Unpreserved Attention: TIME Address: # OF CONTAINERS M 1 6 SAMPLER NAME AND SIGNATURE 11/6 PRINT Name of SAMPLER: SIGNATURE of SAMPLER: Markens. Com SAMPLE TEMP AT COLLECTION land man Keny Com DATE TIME Koches fer COMPOSITE END/GRAB DATE COLLECTED RELINQUISHED BY / AFFILIATION :. 2. 07:2 1:50 13.5 15. 150 3:2 1305 2:35 800 5,45 3:10 TIME į COMPOSITE Report To: DATE akucha Required Project Information: 100 5 SILTENMENT TAND O SAME POUR CONTINUES PROJECT Name: Project Name: (G=GRAB C=COMP) **SAMPLE TYPE** Project Number: (see valid codes to left) MATRIX CODE Section B ORIGINAL Matrix Codes MATRIX / CODE Drinking Water Water Waste Water Product Soil/Solid Oil Wipe Air Tissue Other Britonnech ADDITIONAL COMMENTS なから (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE DOR - 8 Requested Due Date/TAT: リの SAMPLE ID 1-1-18 PM えいしん 7-3190 132 D-3-0 21-35 DPE-4 DEELS びず用して Required Client Information Section A Required Client Information: Company: | May | Moor | ddress: 20 42 W Too and 00 Section D Email To: hone: 2 9 œ თ 2 Ξ 12 ILEM # ∄age 43 of 48

## CHAIN-OF-CUSTODY / Analytical Request Document The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Face Analytical www.pacelabs.com

man formation:  Para formation:  1 2 w of 3 to 5 to	Required Project Information:		
2 ed of the St. Copy To.		Invoice Information: Attention:	
2 w 38 th 57	Krimer for I and mount to me. O som	63	)
	o Kucked landmonthems. Con	Company Name:	REGULATORY AGENCY
Server Land D.		Address:	NPDES   GROUND WATER   DRINKING WATER
12/0/2018 (Core) 100	Order No.:	Pace Quote Reference:	☐ UST ☐ RCRA ☐ OTHER
Fax:	Project Name: GTV of Rockes for	Pace Project Manager:	Site Location
Requested Due Date/TAT: U g M. TATA Project Number:		Pace Profile #:	STATE:
0.37		Requeste	Requested Analysis Filtered (Y/N)
Section D Matrix Codes Required Client Information MATRIX / CODE	<u> </u>	<b>z</b> Preservatives ⋉	
W W W	POSITE	1 1	(N/A) :
		# OF CONTAINER  Inpreserved  Incl  I	Residual Chlorine
10 mm	553 711 11 (2)		
10 - MM		N N	
MW-20	1/1/2	3	
2 0			
8			
11			
12 ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION DATE	TIME ACCEPTED BY / AFFILIATION	N DATE TIME SAMPLE CONDITIONS
48 hr TAT	Jan fle 1/15/16	grown asses pace	1 2 1 2 4 4 7 5 1 2 1 7 1 7 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Page	SAMPLER NAME AND SIGNATURE		uo (I
	PRINT Name of SAMPLER:	Haron Kiell	ni qm heviə N/Y) ə heviə Co o o bə
	SIGNATURE of SAMPLER:	S:   DATE Signed	Ter Recc Ice



### Document Name:

### Sample Condition Upon Receipt Form

Document No.:

F-MN-L-213-rev.15

Document Revised: 05Jan2016

Page 1 of 1

Issuing Authority: Pace Minnesota Quality Office

Sample Condition Upon Receipt  Client Name:  LCMAMOVE E	7 <i>u\ro</i>	nnu	Project Phta	
Courier: Fed Ex UPS  Commercial Pace SpeeDee  Tracking Number: 782 4520 8039	USPS Other:		Client	STATE OF THE PROPERTY OF THE P
Custody Seal on Cooler/Box Present?	)	Seals Int	act? "E	Yes No Optional: Proj. Due Date: Proj. Name:
Packing Material: Bubble Wrap Bubble Bags	Non	е П	Other:	Temp Blank? √Yes No
Thermometer 151401163 1888A91216750 Used: 151401164 1888A01433100		e of Ice:	We	t Blue None Samples on ice, cooling process has begun
Cooler Temp Read (°C):  Temp should be above freezing to 6°C  Correction Fact  USDA Regulated Soil ( M/A, water sample)  Did samples originate in a quarantine zone within the United to MS, NC, NM, NY, OK, OR, SC, TN, TX or WA (check maps)?	rrected (°C) tor: + O	AR, AZ, C	A, FL, GA, ∐Yes	Biological Tissue Frozen? Yes No N/A te and Initials of Person Examining Contents: No N/A ID, LA. Did samples originate from a foreign source (internationally, No including Hawaii and Puerto Rico)? Yes No Q-338) and include with SCUR/COC paperwork.
				COMMENTS:
Chain of Custody Present?	Yes	□No	□N/A	1.
Chain of Custody Filled Out?	Ves	□No	□N/A	2.
Chain of Custody Relinquished?	Yes	□No	□N/A	3.
Sampler Name and/or Signature on COC?	Yes	□No	□N/A	4.
Samples Arrived within Hold Time?	∠ Yes	□No	□n/A	5.
Short Hold Time Analysis (<72 hr)?	□Yes	No	□N/A	6.
Rush Turn Around Time Requested?	Yes	□No	□N/A	748 NOURS
Sufficient Volume?	Yes	□No	□N/A	8.
Correct Containers Used?	Yes	□No	□N/A	9.
-Pace Containers Used?	Yes	□No	□N/A	
Containers Intact?	Yes	□No	□N/A	10.
Filtered Volume Received for Dissolved Tests?	Yes	□No	N/A	11. Note if sediment is visible in the dissolved container
Sample Labels Match COC?  -Includes Date/Time/ID/Analysis Matrix: WALE /	Yes	□No	□N/A	12.
All containers needing acid/base preservation have been checked? All containers needing preservation are found to be in compliance with EPA recommendation?	□Yes	□No	N/A	13. □HNO₃ □H₂SO₄ □NaOH □HCI Sample #
(HNO₃, H₂SO₄, H6<2; NaOH >9 Sulfide, NaOH>12 Cyanide) Exceptions VOA Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC	□Yes	□No	□N/A	Initial when Lot # of added completed: preservative:
Headspace in VOA Vials ( >6mm)?	☐Yes	No		14.
Trip Blank Present?	Yes	□No	□N/A	15.
Trip Blank Custody Seals Present? Pace Trip Blank Lot # (if purchased): \\ \ 230 \ \ 5 - 0 \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	Yes	□No	□n/a	
CLIENT NOTIFICATION/RESOLUTION  Person Contacted:  Comments/Resolution:				Field Data Required? Yes No Date/Time:
Project Manager Review:  Note: Whenever there is a discrepancy affecting North Carolina chold, incorrect preservative, out of temp, incorrect containers).	omplance's	amples, a	Copy of th	Date:

### 

6KW

item Phone (612)607-1700 Fax (612)607-6444 Pace Analytical Services, Inc. 1700 Elm Street, Suite 200 Oyeyemi Odujole Report To 3 4 3 12 = 10 Minneapolis, MN 55414 Workorder: 10335670 16 MW-15 DPE-6 Sample ID MW-19 MW-14 DPE-8 DPE-4 DPE-2 MW-18 MW-16 DPE-7 DPE-5 TRIP BLANK MW-20 MW-17 DPE-3 DPE-1 006 500 200 803 000 800 8 001 Workorder Name: City of Rochester PS Type Sd PS Sample Date/Time Collect 1/11/2016 17:45 1/11/2016 13:25 1/11/2016 15:50 1/11/2016 15:10 1/11/2016 16:15 1/11/2016 00:00 1/11/2016 14:15 1/11/2016 12:40 1/11/2016 17:55 1/11/2016 14:35 1/11/2016 13:45 1/11/2016 13:05 1/11/2016 13:50 1/11/2016 14:20 1/11/2016 15:25 1/11/2016 15:00 Subcontract To Phone (920)469-2436 Green Bay, WI 54302 Pace Analytical Green Bay 1241 Bellevue Street 10335670015 10335670014 10335670013 10335670012 10335670011 10335670010 10335670009 10335670008 10335670007 10335670006 10335670005 10335670004 10335670003 10335670002 10335670001 10335670016 Lab ID Water Matrix Water ω ω ω HCL ယ ယ w ယ ယ ယ ယ ယ **Preserved Containers** Owner Received Date: × 8260 VOC 465 LIST ×  $\times$ 1/12/2016 Results Requested By: LAB USE ONLY 2.40 MB 1/14/2016 

***In order to maintain client confidentiality, location/name of the sampling site, sampler's name and signature may not be provided on this COC document. This chain of custody is considered complete as is since this information is available in the owner laboratory.

### Sample Condition Upon Receipt

Pace Analytical*

Pace Analytical Services, Inc. 1241 Bellevue Street, Suite 9 Green Bay, WI 54302

,		Project	#: WO#:	40127043
Client Name: Pace MN			000,	1012/040
racking #: UPS T Client T Pa	ace Other: M	atto	40127043	
ustody Seal on Cooler/Box Present: 7 yes	no Seals ir	tact:		
ustody Seal on Samples Present: 🖵 yes	no Seals ir	tact: Ves no		
acking Material:   Bubble Wrap / Bu	ibble Bags	None Other		
hermometer UsedSZ-S5		Vet Blue Dry None	Samples or	n ice, cooling process has begun
ooler Temperature Uncorr: 1.5 /Corr:	<i>-</i> 1	iological Tissue is F	• •	31
emp Blank Present: // yes / no			厂 no	Person examining content
emp should be above freezing to 6°C for all sample ∈ ozen Biota Samples should be received ≤ 0°C.	except Biota.	Comments:		Date: 1-13-10 Initials:
hain of Custody Present:	ØYes □No □	]N/A 1.		
hain of Custody Filled Out:	ZYes □No □	]N/A 2.		
hain of Custody Relinquished:	Z Yes □No □	]N/A 3.		
ampler Name & Signature on COC:	□Yes □No <b>/</b>	ÎN/A 4.		
amples Arrived within Hold Time:		IN/A 5.		
- VOA Samples frozen upon receipt	Yes □No	Date/Time:		
hort Hold Time Analysis (<72hr):		IN/A 6.		
ush Turn Around Time Requested:	j	In/A 7.		
ufficient Volume:	1	IN/A 8.		
prect Containers Used:		N/A 9.		
-Pace Containers Used:	/			
	□Yes □No Z			
-Pace IR Containers Used:		N/A		
ontainers Intact:		N/A 10.		
Itered volume received for Dissolved tests		N/A 11.		
ample Labels match COC:	ØYes □No □	N/A 12.		
-Includes date/time/ID/Analysis Matrix:	$\mathcal{M}$			
containers needing preservation have been checked on-Compliance noted in 13.)	l. □Yes □No Ø	N/A 13 F HNC	3 F H2SO4 F	NaOH   NaOH +ZnAc
containers needing preservation are found to be in				
mpliance with EPA recommendation. NO3, H2 <b>SO4</b> ,≤2; NaOH+ZnAct ≥9, NaOH ≥12)	□Yes □No	N/A		
eptions: VOA, coliform, TOC, TOX, TOH,	<del></del>	Initial when	Lab Std #ID of	Date/
G, WIDROW, Phenolics, OTHER:	Yes No	completed	preservative	Time:
adspace in VOA Vials ( >6mm):		N/A 14.		
p Blank Present:	ØYes □No □	N/A 15.		
Blank Custody Seals Present	ØYes □No □	N/A		
ce Trip Blank Lot # (if purchased): 12301	5			
ent Notification/ Resolution: Person Contacted:	D-	If te/Time:	checked, see attache	ed form for additional comments
comments/ Resolution:	Ua	te/ HHe.		





March 03, 2016

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

RE: Project: City of Rochester-CRC

Pace Project No.: 10339705

### Dear Mr. Skramstad:

Enclosed are the analytical results for sample(s) received by the laboratory on February 25, 2016. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

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

Sincerely,

Oyeyemi Odujole oyeyemi.odujole@pacelabs.com Project Manager

**Enclosures** 





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



### **CERTIFICATIONS**

Project: City of Rochester-CRC

Pace Project No.: 10339705

**Minnesota Certification IDs** 

1700 Elm Street SE Suite 200, Minneapolis, MN 55414

525 N 8th Street, Salina, KS 67401 A2LA Certification #: 2926.01 Alaska Certification #: UST-078 Alaska Certification #MN00064 Alabama Certification #40770 Arizona Certification #: AZ-0014 Arkansas Certification #: 88-0680

California Certification #: 01155CA Colorado Certification #Pace Connecticut Certification #: PH-0256

EPA Region 8 Certification #: 8TMS-L Florida/NELAP Certification #: E87605

Guam Certification #:14-008r Georgia Certification #: 959 Georgia EPD #: Pace

Idaho Certification #: MN00064 Hawaii Certification #MN00064 Illinois Certification #: 200011 Indiana Certification#C-MN-01 Iowa Certification #: 368 Kansas Certification #: E-10167

Kentucky Dept of Envi. Protection - DW #90062 Kentucky Dept of Envi. Protection - WW #:90062

Louisiana DEQ Certification #: 3086 Louisiana DHH #: LA140001 Maine Certification #: 2013011 Maryland Certification #: 322

Michigan DEPH Certification #: 9909

North Dakota Certification #: R-150

Minnesota Certification #: 027-053-137

Mississippi Certification #: Pace Montana Certification #: MT0092 Nevada Certification #: MN_00064 Nebraska Certification #: Pace New Jersey Certification #: MN-002 New York Certification #: 11647 North Carolina Certification #: 530

North Carolina State Public Health #: 27700

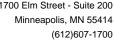
North Dakota Certification #: R-036

Ohio EPA #: 4150 Ohio VAP Certification #: CL101 Oklahoma Certification #: 9507 Oregon Certification #: MN200001 Oregon Certification #: MN300001 Pennsylvania Certification #: 68-00563

Puerto Rico Certification Saipan (CNMI) #:MP0003 South Carolina #:74003001 Texas Certification #: T104704192 Tennessee Certification #: 02818 Utah Certification #: MN000642013-4 Virginia DGS Certification #: 251 Virginia/VELAP Certification #: Pace Washington Certification #: C486 West Virginia Certification #: 382 West Virginia DHHR #:9952C Wisconsin Certification #: 999407970

**Green Bay Certification IDs**1241 Bellevue Street, Green Bay, WI 54302 Florida/NELAP Certification #: E87948 Illinois Certification #: 200050 Kentucky Certification #: 82 Louisiana Certification #: 04168 Minnesota Certification #: 055-999-334 Virginia VELAP ID: 460263

South Carolina Certification #: 83006001 Texas Certification #: T104704529-14-1 US Dept of Agriculture #: S-76505 Virginia VELAP ID: 460263
Virginia VELAP Certification ID: 460263 Wisconsin Certification #: 405132750 Wisconsin DATCP Certification #: 105-444





### **SAMPLE SUMMARY**

Project: City of Rochester-CRC

Pace Project No.: 10339705

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10339705001	DPE-1		02/23/16 17:10	02/25/16 10:25
10339705002	DPE-2	Water	02/23/16 16:40	02/25/16 10:25
10339705003	DPE-3	Water	02/23/16 16:55	02/25/16 10:25
10339705004	DPE-4	Water	02/23/16 16:25	02/25/16 10:25
10339705005	DPE-5	Water	02/23/16 15:35	02/25/16 10:25
10339705006	DPE-6	Water	02/23/16 15:05	02/25/16 10:25
10339705007	DPE-7	Water	02/23/16 13:15	02/25/16 10:25
10339705008	DPE-8	Water	02/23/16 16:00	02/25/16 10:25
10339705009	MW-14	Water	02/23/16 13:40	02/25/16 10:25
10339705010	MW-15	Water	02/23/16 13:55	02/25/16 10:25
10339705011	MW-16	Water	02/23/16 15:45	02/25/16 10:25
10339705012	MW-17	Water	02/23/16 17:35	02/25/16 10:25
10339705013	MW-18	Water	02/23/16 18:00	02/25/16 10:25
10339705014	MW-19	Water	02/23/16 12:50	02/25/16 10:25
10339705015	MW-20	Water	02/23/16 15:20	02/25/16 10:25
10339705016	AS-Influent	Water	02/24/16 18:05	02/25/16 10:25
10339705017	AS-Effluent	Water	02/24/16 18:15	02/25/16 10:25
10339705018	TRIP BLANK	Water	02/23/16 00:00	02/25/16 10:25





### **SAMPLE ANALYTE COUNT**

Project: City of Rochester-CRC

Pace Project No.: 10339705

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
10339705001	DPE-1	EPA 8260	LAP	70	PASI-G
10339705002	DPE-2	EPA 8260	LAP	70	PASI-G
10339705003	DPE-3	EPA 8260	LAP	70	PASI-G
10339705004	DPE-4	EPA 8260	LAP	70	PASI-G
10339705005	DPE-5	EPA 8260	LAP	70	PASI-G
10339705006	DPE-6	EPA 8260	LAP	70	PASI-G
10339705007	DPE-7	EPA 8260	LAP	70	PASI-G
10339705008	DPE-8	EPA 8260	LAP	70	PASI-G
10339705009	MW-14	EPA 8260	LAP	70	PASI-G
10339705010	MW-15	EPA 8260	LAP	70	PASI-G
10339705011	MW-16	EPA 8260	LAP	70	PASI-G
10339705012	MW-17	EPA 8260	LAP	70	PASI-G
10339705013	MW-18	EPA 8260	LAP	70	PASI-G
10339705014	MW-19	EPA 8260	LAP	70	PASI-G
10339705015	MW-20	EPA 8260	LAP	70	PASI-G
10339705016	AS-Influent	EPA 624	DJB	73	PASI-M
10339705017	AS-Effluent	EPA 624	DJB	73	PASI-M
10339705018	TRIP BLANK	EPA 8260	LAP	70	PASI-G



### **ANALYTICAL RESULTS**

Project: City of Rochester-CRC

Pace Project No.: 10339705

Date: 03/03/2016 10:19 AM

Sample: DPE-1	Lab ID: 10	0339705001	Collected: 02/23/1	6 17:10	Received:	02/25/16 10:25	Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qua
3260 MSV	Analytical M	ethod: EPA 82	260					
1,1,1,2-Tetrachloroethane	ND	ug/L	40.0	40		03/02/16 13:54	1 630-20-6	
1,1,1-Trichloroethane	ND	ug/L	40.0	40		03/02/16 13:54	1 71-55-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	40.0	40		03/02/16 13:54	1 79-34-5	
1,1,2-Trichloroethane	ND	ug/L	40.0	40		03/02/16 13:54	1 79-00-5	
1,1,2-Trichlorotrifluoroethane	ND	ug/L	200	40		03/02/16 13:54	1 76-13-1	
1,1-Dichloroethane	ND	ug/L	40.0	40		03/02/16 13:54	1 75-34-3	
1,1-Dichloroethene	ND	ug/L	40.0	40		03/02/16 13:54	75-35-4	
1,1-Dichloropropene	ND	ug/L	40.0	40		03/02/16 13:54	1 563-58-6	
1,2,3-Trichlorobenzene	ND	ug/L	200	40		03/02/16 13:54	1 87-61-6	
1,2,3-Trichloropropane	ND	ug/L	40.0	40		03/02/16 13:54	1 96-18-4	
1,2,4-Trichlorobenzene	ND	ug/L	200	40		03/02/16 13:54	1 120-82-1	
1,2,4-Trimethylbenzene	ND	ug/L	40.0	40		03/02/16 13:54	1 95-63-6	
1,2-Dibromo-3-chloropropane	ND	ug/L	200	40		03/02/16 13:54		
1,2-Dibromoethane (EDB)	ND	ug/L	40.0	40		03/02/16 13:54		
1,2-Dichlorobenzene	ND	ug/L	40.0	40		03/02/16 13:54		
I.2-Dichloroethane	ND	ug/L	40.0	40		03/02/16 13:54		
I,2-Dichloropropane	ND	ug/L	40.0	40		03/02/16 13:54		
,3,5-Trimethylbenzene	ND	ug/L	40.0	40		03/02/16 13:54		
,3-Dichlorobenzene	ND	ug/L	40.0	40		03/02/16 13:54		
,3-Dichloropropane	ND ND	ug/L	40.0	40		03/02/16 13:54		
,4-Dichlorobenzene	ND ND		40.0	40		03/02/16 13:54		
	ND ND	ug/L	40.0	40		03/02/16 13:54		
2,2-Dichloropropane	ND ND	ug/L	800	40		03/02/16 13:54		
2-Butanone (MEK)		ug/L		40				
2-Chlorotoluene	ND	ug/L	40.0			03/02/16 13:54		
I-Chlorotoluene	ND	ug/L	40.0	40		03/02/16 13:54		
I-Methyl-2-pentanone (MIBK)	ND	ug/L	800	40		03/02/16 13:54		
Acetone	ND	ug/L	800	40		03/02/16 13:54		
Allyl chloride	ND	ug/L	200	40		03/02/16 13:54		
Benzene	ND	ug/L	40.0	40		03/02/16 13:54		
Bromobenzene	ND	ug/L	40.0	40		03/02/16 13:54		
Bromochloromethane	ND	ug/L	40.0	40		03/02/16 13:54		
Bromodichloromethane	ND	ug/L	40.0	40		03/02/16 13:54		
Bromoform	ND	ug/L	200	40		03/02/16 13:54		
Bromomethane	ND	ug/L	200	40		03/02/16 13:54		
Carbon tetrachloride	ND	ug/L	40.0	40		03/02/16 13:54		
Chlorobenzene	ND	ug/L	40.0	40		03/02/16 13:54		
Chloroethane	ND	ug/L	40.0	40		03/02/16 13:54	75-00-3	
Chloroform	ND	ug/L	200	40		03/02/16 13:54	1 67-66-3	
Chloromethane	ND	ug/L	40.0	40		03/02/16 13:54	1 74-87-3	
Dibromochloromethane	ND	ug/L	200	40		03/02/16 13:54	1 124-48-1	
Dibromomethane	ND	ug/L	40.0	40		03/02/16 13:54	1 74-95-3	
Dichlorodifluoromethane	ND	ug/L	40.0	40		03/02/16 13:54	1 75-71-8	
Dichlorofluoromethane	ND	ug/L	40.0	40		03/02/16 13:54	1 75-43-4	
Diethyl ether (Ethyl ether)	ND	ug/L	200	40		03/02/16 13:54	1 60-29-7	
Ethylbenzene	ND	ug/L	40.0	40		03/02/16 13:54	1 100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	200	40		03/02/16 13:54	1 87-68-3	
sopropylbenzene (Cumene)	ND	ug/L	40.0	40		03/02/16 13:54		

### **REPORT OF LABORATORY ANALYSIS**

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Project: City of Rochester-CRC

Pace Project No.: 10339705

Date: 03/03/2016 10:19 AM

Sample: DPE-1	Lab ID: 103	39705001	Collected: 02/23/1	6 17:10	Received: 02	2/25/16 10:25 N	Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Meth	nod: EPA 82	260					
Methyl-tert-butyl ether	ND	ug/L	40.0	40		03/02/16 13:54	1634-04-4	
Methylene Chloride	ND	ug/L	40.0	40		03/02/16 13:54	75-09-2	
Naphthalene	ND	ug/L	200	40		03/02/16 13:54	91-20-3	
Styrene	ND	ug/L	40.0	40		03/02/16 13:54	100-42-5	
Tetrachloroethene	2970	ug/L	40.0	40		03/02/16 13:54	127-18-4	
Tetrahydrofuran	ND	ug/L	200	40		03/02/16 13:54	109-99-9	
Toluene	ND	ug/L	40.0	40		03/02/16 13:54	108-88-3	
Trichloroethene	ND	ug/L	40.0	40		03/02/16 13:54	79-01-6	
Trichlorofluoromethane	ND	ug/L	40.0	40		03/02/16 13:54	75-69-4	
Vinyl chloride	ND	ug/L	40.0	40		03/02/16 13:54	75-01-4	
Xylene (Total)	ND	ug/L	120	40		03/02/16 13:54	1330-20-7	
cis-1,2-Dichloroethene	ND	ug/L	40.0	40		03/02/16 13:54	156-59-2	
cis-1,3-Dichloropropene	ND	ug/L	200	40		03/02/16 13:54	10061-01-5	
n-Butylbenzene	ND	ug/L	40.0	40		03/02/16 13:54	104-51-8	
n-Propylbenzene	ND	ug/L	40.0	40		03/02/16 13:54	103-65-1	
p-Isopropyltoluene	ND	ug/L	40.0	40		03/02/16 13:54	99-87-6	
sec-Butylbenzene	ND	ug/L	200	40		03/02/16 13:54	135-98-8	
tert-Butylbenzene	ND	ug/L	40.0	40		03/02/16 13:54	98-06-6	
trans-1,2-Dichloroethene	ND	ug/L	40.0	40		03/02/16 13:54	156-60-5	
trans-1,3-Dichloropropene <b>Surrogates</b>	ND	ug/L	800	40		03/02/16 13:54	10061-02-6	
4-Bromofluorobenzene (S)	95	%	70-130	40		03/02/16 13:54	460-00-4	
Dibromofluoromethane (S)	108	%	70-130	40		03/02/16 13:54	1868-53-7	
Toluene-d8 (S)	97	%	70-130	40		03/02/16 13:54	2037-26-5	



### **ANALYTICAL RESULTS**

Project: City of Rochester-CRC

Pace Project No.: 10339705

Date: 03/03/2016 10:19 AM

Sample: DPE-2	Lab ID: 103	39705002	Collected: 02/23/1	16 16:40	Received: 02/	25/16 10:25	Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Met	hod: EPA 82	260					
1,1,1,2-Tetrachloroethane	ND	ug/L	40.0	40		03/02/16 14:4	630-20-6	
1,1,1-Trichloroethane	ND	ug/L	40.0	40		03/02/16 14:41	l 71-55-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	40.0	40		03/02/16 14:41	l 79-34-5	
1,1,2-Trichloroethane	ND	ug/L	40.0	40		03/02/16 14:47	79-00-5	
1,1,2-Trichlorotrifluoroethane	ND	ug/L	200	40		03/02/16 14:4	I 76-13-1	
1,1-Dichloroethane	ND	ug/L	40.0	40		03/02/16 14:41	I 75-34-3	
1,1-Dichloroethene	ND	ug/L	40.0	40		03/02/16 14:41	I 75-35-4	
1,1-Dichloropropene	ND	ug/L	40.0	40		03/02/16 14:41	I 563-58-6	
1,2,3-Trichlorobenzene	ND	ug/L	200	40		03/02/16 14:4	I 87-61-6	
1,2,3-Trichloropropane	ND	ug/L	40.0	40		03/02/16 14:4	l 96-18-4	
1,2,4-Trichlorobenzene	ND	ug/L	200	40		03/02/16 14:4		
1,2,4-Trimethylbenzene	ND	ug/L	40.0	40		03/02/16 14:4		
1,2-Dibromo-3-chloropropane	ND	ug/L	200	40		03/02/16 14:4		
1,2-Dibromoethane (EDB)	ND	ug/L	40.0	40		03/02/16 14:4		
1,2-Dichlorobenzene	ND	ug/L	40.0	40		03/02/16 14:4		
1,2-Dichloroethane	ND	ug/L	40.0	40		03/02/16 14:4		
1,2-Dichloropropane	ND	ug/L	40.0	40		03/02/16 14:4		
1,3,5-Trimethylbenzene	ND	ug/L	40.0	40		03/02/16 14:4		
1,3-Dichlorobenzene	ND ND	ug/L	40.0	40		03/02/16 14:4		
1,3-Dichloropropane	ND ND	-	40.0	40		03/02/16 14:4		
1,4-Dichlorobenzene	ND ND	ug/L	40.0	40		03/02/16 14:4		
	ND ND	ug/L	40.0	40		03/02/16 14:4		
2,2-Dichloropropane 2-Butanone (MEK)	ND	ug/L	800	40		03/02/16 14:4		
		ug/L						
2-Chlorotoluene	ND	ug/L	40.0	40 40		03/02/16 14:4		
4-Chlorotoluene	ND	ug/L	40.0			03/02/16 14:4		
4-Methyl-2-pentanone (MIBK)	ND	ug/L	800	40		03/02/16 14:4		
Acetone	ND	ug/L	800	40		03/02/16 14:4		
Allyl chloride	ND	ug/L	200	40		03/02/16 14:4		
Benzene	ND	ug/L	40.0	40		03/02/16 14:4		
Bromobenzene	ND	ug/L	40.0	40		03/02/16 14:4		
Bromochloromethane	ND	ug/L	40.0	40		03/02/16 14:4		
Bromodichloromethane	ND	ug/L	40.0	40		03/02/16 14:4		
Bromoform	ND	ug/L	200	40		03/02/16 14:4		
Bromomethane	ND	ug/L	200	40		03/02/16 14:4		
Carbon tetrachloride	ND	ug/L	40.0	40		03/02/16 14:4		
Chlorobenzene	ND	ug/L	40.0	40		03/02/16 14:4		
Chloroethane	ND	ug/L	40.0	40		03/02/16 14:4		
Chloroform	ND	ug/L	200	40		03/02/16 14:4		
Chloromethane	ND	ug/L	40.0	40		03/02/16 14:4		
Dibromochloromethane	ND	ug/L	200	40		03/02/16 14:4		
Dibromomethane	ND	ug/L	40.0	40		03/02/16 14:4		
Dichlorodifluoromethane	ND	ug/L	40.0	40		03/02/16 14:4		
Dichlorofluoromethane	ND	ug/L	40.0	40		03/02/16 14:41	T 75-43-4	
Diethyl ether (Ethyl ether)	ND	ug/L	200	40		03/02/16 14:41	l 60-29-7	
Ethylbenzene	ND	ug/L	40.0	40		03/02/16 14:4	I 100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	200	40		03/02/16 14:4	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	40.0	40		03/02/16 14:4	l 98-82-8	





Project: City of Rochester-CRC

Pace Project No.: 10339705

Date: 03/03/2016 10:19 AM

Sample: DPE-2	Lab ID: 103	39705002	Collected: 02/23/1	6 16:40	Received: 02/25/16 10::	25 Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared Analyz	zed CAS No.	Qua
8260 MSV	Analytical Meth	nod: EPA 82	260				
Methyl-tert-butyl ether	ND	ug/L	40.0	40	03/02/16	14:41 1634-04-4	
Methylene Chloride	ND	ug/L	40.0	40	03/02/16	14:41 75-09-2	
Naphthalene	ND	ug/L	200	40	03/02/16	14:41 91-20-3	
Styrene	ND	ug/L	40.0	40	03/02/16	14:41 100-42-5	
Tetrachloroethene	4230	ug/L	40.0	40	03/02/16	14:41 127-18-4	
Tetrahydrofuran	ND	ug/L	200	40	03/02/16	14:41 109-99-9	
Toluene	ND	ug/L	40.0	40	03/02/16	14:41 108-88-3	
Trichloroethene	ND	ug/L	40.0	40	03/02/16	14:41 79-01-6	
Trichlorofluoromethane	ND	ug/L	40.0	40	03/02/16	14:41 75-69-4	
Vinyl chloride	ND	ug/L	40.0	40	03/02/16	14:41 75-01-4	
Xylene (Total)	ND	ug/L	120	40	03/02/16	14:41 1330-20-7	
cis-1,2-Dichloroethene	ND	ug/L	40.0	40	03/02/16	14:41 156-59-2	
cis-1,3-Dichloropropene	ND	ug/L	200	40	03/02/16	14:41 10061-01-5	
n-Butylbenzene	ND	ug/L	40.0	40	03/02/16	14:41 104-51-8	
n-Propylbenzene	ND	ug/L	40.0	40	03/02/16	14:41 103-65-1	
p-Isopropyltoluene	ND	ug/L	40.0	40	03/02/16	14:41 99-87-6	
sec-Butylbenzene	ND	ug/L	200	40	03/02/16	14:41 135-98-8	
tert-Butylbenzene	ND	ug/L	40.0	40	03/02/16	14:41 98-06-6	
trans-1,2-Dichloroethene	ND	ug/L	40.0	40	03/02/16	14:41 156-60-5	
trans-1,3-Dichloropropene	ND	ug/L	800	40	03/02/16	14:41 10061-02-6	
Surrogates							
4-Bromofluorobenzene (S)	96	%	70-130	40	03/02/16	14:41 460-00-4	
Dibromofluoromethane (S)	109	%	70-130	40	03/02/16	14:41 1868-53-7	
Toluene-d8 (S)	96	%	70-130	40	03/02/16	14:41 2037-26-5	



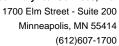
### **ANALYTICAL RESULTS**

Project: City of Rochester-CRC

Pace Project No.: 10339705

Date: 03/03/2016 10:19 AM

Sample: DPE-3	Lab ID: 103	339705003	Collected: 02/23/1	16 16:55	Received:	02/25/16 10:25	Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qua
8260 MSV	Analytical Met	hod: EPA 82	260					
1,1,1,2-Tetrachloroethane	ND	ug/L	200	200		03/02/16 15:0	3 630-20-6	
1,1,1-Trichloroethane	ND	ug/L	200	200		03/02/16 15:0	3 71-55-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	200	200		03/02/16 15:0	3 79-34-5	
1,1,2-Trichloroethane	ND	ug/L	200	200		03/02/16 15:0	3 79-00-5	
1,1,2-Trichlorotrifluoroethane	ND	ug/L	1000	200		03/02/16 15:0	3 76-13-1	
1,1-Dichloroethane	ND	ug/L	200	200		03/02/16 15:0	3 75-34-3	
1,1-Dichloroethene	ND	ug/L	200	200		03/02/16 15:0	3 75-35-4	
1,1-Dichloropropene	ND	ug/L	200	200		03/02/16 15:0	3 563-58-6	
1,2,3-Trichlorobenzene	ND	ug/L	1000	200		03/02/16 15:0	3 87-61-6	
1,2,3-Trichloropropane	ND	ug/L	200	200		03/02/16 15:0		
1,2,4-Trichlorobenzene	ND	ug/L	1000	200		03/02/16 15:0		
1,2,4-Trimethylbenzene	ND	ug/L	200	200		03/02/16 15:0		
1,2-Dibromo-3-chloropropane	ND	ug/L	1000	200		03/02/16 15:0		
1,2-Dibromoethane (EDB)	ND	ug/L	200	200		03/02/16 15:0		
1,2-Dichlorobenzene	ND	ug/L	200	200		03/02/16 15:0		
1,2-Dichloroethane	ND	ug/L	200	200		03/02/16 15:0		
1,2-Dichloropropane	ND ND	ug/L	200	200		03/02/16 15:0		
1,3,5-Trimethylbenzene	ND ND	ug/L	200	200		03/02/16 15:0		
1,3-Dichlorobenzene	ND ND		200	200		03/02/16 15:0		
		ug/L	200	200				
1,3-Dichloropropane	ND	ug/L				03/02/16 15:0		
1,4-Dichlorobenzene	ND	ug/L	200	200		03/02/16 15:0		
2,2-Dichloropropane	ND	ug/L	200	200		03/02/16 15:0		
2-Butanone (MEK)	ND	ug/L	4000	200		03/02/16 15:0		
2-Chlorotoluene	ND	ug/L	200	200		03/02/16 15:0		
1-Chlorotoluene	ND	ug/L	200	200		03/02/16 15:0		
4-Methyl-2-pentanone (MIBK)	ND	ug/L	4000	200		03/02/16 15:0		
Acetone	ND	ug/L	4000	200		03/02/16 15:0		
Allyl chloride	ND	ug/L	1000	200		03/02/16 15:0		
Benzene	ND	ug/L	200	200		03/02/16 15:0		
Bromobenzene	ND	ug/L	200	200		03/02/16 15:0		
Bromochloromethane	ND	ug/L	200	200		03/02/16 15:0		
Bromodichloromethane	ND	ug/L	200	200		03/02/16 15:0		
Bromoform	ND	ug/L	1000	200		03/02/16 15:0		
Bromomethane	ND	ug/L	1000	200		03/02/16 15:0	3 74-83-9	
Carbon tetrachloride	ND	ug/L	200	200		03/02/16 15:0	3 56-23-5	
Chlorobenzene	ND	ug/L	200	200		03/02/16 15:0	3 108-90-7	
Chloroethane	ND	ug/L	200	200		03/02/16 15:0	3 75-00-3	
Chloroform	ND	ug/L	1000	200		03/02/16 15:0	3 67-66-3	
Chloromethane	ND	ug/L	200	200		03/02/16 15:0	3 74-87-3	
Dibromochloromethane	ND	ug/L	1000	200		03/02/16 15:0	3 124-48-1	
Dibromomethane	ND	ug/L	200	200		03/02/16 15:0	3 74-95-3	
Dichlorodifluoromethane	ND	ug/L	200	200		03/02/16 15:0	3 75-71-8	
Dichlorofluoromethane	ND	ug/L	200	200		03/02/16 15:0	3 75-43-4	
Diethyl ether (Ethyl ether)	ND	ug/L	1000	200		03/02/16 15:0	3 60-29-7	
Ethylbenzene	ND	ug/L	200	200		03/02/16 15:0		
Hexachloro-1,3-butadiene	ND	ug/L	1000	200		03/02/16 15:0		
sopropylbenzene (Cumene)	ND	ug/L	200	200		03/02/16 15:0		





Project: City of Rochester-CRC

Pace Project No.: 10339705

Date: 03/03/2016 10:19 AM

Sample: DPE-3	Lab ID: 103	39705003	Collected: 02/23/1	16 16:55	Received: 0	2/25/16 10:25 N	latrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qua
8260 MSV	Analytical Meth	nod: EPA 82	60					
Methyl-tert-butyl ether	ND	ug/L	200	200		03/02/16 15:03	1634-04-4	
Methylene Chloride	ND	ug/L	200	200		03/02/16 15:03	75-09-2	
Naphthalene	ND	ug/L	1000	200		03/02/16 15:03	91-20-3	
Styrene	ND	ug/L	200	200		03/02/16 15:03	100-42-5	
Tetrachloroethene	19600	ug/L	200	200		03/02/16 15:03	127-18-4	
Tetrahydrofuran	ND	ug/L	1000	200		03/02/16 15:03	109-99-9	
Toluene	ND	ug/L	200	200		03/02/16 15:03	108-88-3	
Trichloroethene	ND	ug/L	200	200		03/02/16 15:03	79-01-6	
Trichlorofluoromethane	ND	ug/L	200	200		03/02/16 15:03	75-69-4	
Vinyl chloride	ND	ug/L	200	200		03/02/16 15:03	75-01-4	
Xylene (Total)	ND	ug/L	600	200		03/02/16 15:03	1330-20-7	
cis-1,2-Dichloroethene	ND	ug/L	200	200		03/02/16 15:03	156-59-2	
cis-1,3-Dichloropropene	ND	ug/L	1000	200		03/02/16 15:03	10061-01-5	
n-Butylbenzene	ND	ug/L	200	200		03/02/16 15:03	104-51-8	
n-Propylbenzene	ND	ug/L	200	200		03/02/16 15:03	103-65-1	
p-Isopropyltoluene	ND	ug/L	200	200		03/02/16 15:03	99-87-6	
sec-Butylbenzene	ND	ug/L	1000	200		03/02/16 15:03	135-98-8	
tert-Butylbenzene	ND	ug/L	200	200		03/02/16 15:03	98-06-6	
trans-1,2-Dichloroethene	ND	ug/L	200	200		03/02/16 15:03	156-60-5	
trans-1,3-Dichloropropene  Surrogates	ND	ug/L	4000	200		03/02/16 15:03	10061-02-6	
4-Bromofluorobenzene (S)	91	%	70-130	200		03/02/16 15:03	460-00-4	
Dibromofluoromethane (S)	108	%	70-130	200		03/02/16 15:03	1868-53-7	
Toluene-d8 (S)	96	%	70-130	200		03/02/16 15:03	2037-26-5	



## **ANALYTICAL RESULTS**

Project: City of Rochester-CRC

Pace Project No.: 10339705

Date: 03/03/2016 10:19 AM

Sample: DPE-4	Lab ID: 103	39705004	Collected: 02/23/1	6 16:25	Received:	02/25/16 10:25	Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qua
8260 MSV	Analytical Met	hod: EPA 82	260					
1,1,1,2-Tetrachloroethane	ND	ug/L	50.0	50		03/03/16 08:1	9 630-20-6	
1,1,1-Trichloroethane	ND	ug/L	50.0	50		03/03/16 08:1	9 71-55-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	50.0	50		03/03/16 08:1	9 79-34-5	
1,1,2-Trichloroethane	ND	ug/L	50.0	50		03/03/16 08:1	9 79-00-5	
1,1,2-Trichlorotrifluoroethane	484	ug/L	250	50		03/03/16 08:1	9 76-13-1	
1,1-Dichloroethane	ND	ug/L	50.0	50		03/03/16 08:1	9 75-34-3	
1,1-Dichloroethene	ND	ug/L	50.0	50		03/03/16 08:1	9 75-35-4	
1,1-Dichloropropene	ND	ug/L	50.0	50		03/03/16 08:1	9 563-58-6	
1,2,3-Trichlorobenzene	ND	ug/L	250	50		03/03/16 08:1	9 87-61-6	
1,2,3-Trichloropropane	ND	ug/L	50.0	50		03/03/16 08:1		
1,2,4-Trichlorobenzene	ND	ug/L	250	50		03/03/16 08:1		
1,2,4-Trimethylbenzene	ND	ug/L	50.0	50		03/03/16 08:1		
1,2-Dibromo-3-chloropropane	ND	ug/L	250	50		03/03/16 08:1		
1,2-Dibromoethane (EDB)	ND	ug/L	50.0	50		03/03/16 08:1		
1,2-Dichlorobenzene	ND	ug/L	50.0	50		03/03/16 08:1		
1,2-Dichloroethane	ND	ug/L	50.0	50		03/03/16 08:1		
1,2-Dichloropropane	ND ND	ug/L	50.0	50		03/03/16 08:1		
1,3,5-Trimethylbenzene	ND	ug/L	50.0	50		03/03/16 08:1		
,3-Dichlorobenzene	ND ND	ug/L ug/L	50.0	50		03/03/16 08:1		
	ND ND	_	50.0	50		03/03/16 08:1		
1,3-Dichloropropane		ug/L						
,4-Dichlorobenzene	ND	ug/L	50.0	50 50		03/03/16 08:1		
2,2-Dichloropropane	ND	ug/L	50.0			03/03/16 08:1		
2-Butanone (MEK)	ND	ug/L	1000	50		03/03/16 08:1		
2-Chlorotoluene	ND	ug/L	50.0	50		03/03/16 08:1		
4-Chlorotoluene	ND	ug/L	50.0	50		03/03/16 08:1		
4-Methyl-2-pentanone (MIBK)	ND	ug/L	1000	50		03/03/16 08:1		
Acetone	ND	ug/L	1000	50		03/03/16 08:1		
Allyl chloride	ND	ug/L	250	50		03/03/16 08:1		
Benzene	ND	ug/L	50.0	50		03/03/16 08:1		
Bromobenzene	ND	ug/L	50.0	50		03/03/16 08:1		
Bromochloromethane	ND	ug/L	50.0	50		03/03/16 08:1		
Bromodichloromethane	ND	ug/L	50.0	50		03/03/16 08:1		
Bromoform	ND	ug/L	250	50		03/03/16 08:1		
Bromomethane	ND	ug/L	250	50		03/03/16 08:1	9 74-83-9	
Carbon tetrachloride	ND	ug/L	50.0	50		03/03/16 08:1	9 56-23-5	
Chlorobenzene	ND	ug/L	50.0	50		03/03/16 08:1	9 108-90-7	
Chloroethane	ND	ug/L	50.0	50		03/03/16 08:1	9 75-00-3	
Chloroform	ND	ug/L	250	50		03/03/16 08:1	9 67-66-3	
Chloromethane	ND	ug/L	50.0	50		03/03/16 08:1	9 74-87-3	
Dibromochloromethane	ND	ug/L	250	50		03/03/16 08:1	9 124-48-1	
Dibromomethane	ND	ug/L	50.0	50		03/03/16 08:1	9 74-95-3	
Dichlorodifluoromethane	ND	ug/L	50.0	50		03/03/16 08:1	9 75-71-8	
Dichlorofluoromethane	ND	ug/L	50.0	50		03/03/16 08:1	9 75-43-4	
Diethyl ether (Ethyl ether)	ND	ug/L	250	50		03/03/16 08:1	9 60-29-7	
Ethylbenzene	ND	ug/L	50.0	50		03/03/16 08:1		
Hexachloro-1,3-butadiene	ND	ug/L	250	50		03/03/16 08:1		
sopropylbenzene (Cumene)	ND	ug/L	50.0	50		03/03/16 08:1		



Project: City of Rochester-CRC

Pace Project No.: 10339705

Date: 03/03/2016 10:19 AM

Sample: DPE-4	Lab ID: 1033	39705004	Collected: 02/23/1	6 16:25	Received: 0	2/25/16 10:25 N	Matrix: Water	·
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Meth	od: EPA 82	260					
Methyl-tert-butyl ether	ND	ug/L	50.0	50		03/03/16 08:19	1634-04-4	
Methylene Chloride	ND	ug/L	50.0	50		03/03/16 08:19	75-09-2	
Naphthalene	ND	ug/L	250	50		03/03/16 08:19	91-20-3	
Styrene	ND	ug/L	50.0	50		03/03/16 08:19	100-42-5	
Tetrachloroethene	6170	ug/L	50.0	50		03/03/16 08:19	127-18-4	
Tetrahydrofuran	ND	ug/L	250	50		03/03/16 08:19	109-99-9	
Toluene	ND	ug/L	50.0	50		03/03/16 08:19	108-88-3	
Trichloroethene	ND	ug/L	50.0	50		03/03/16 08:19	79-01-6	
Trichlorofluoromethane	ND	ug/L	50.0	50		03/03/16 08:19	75-69-4	
Vinyl chloride	ND	ug/L	50.0	50		03/03/16 08:19	75-01-4	
Xylene (Total)	ND	ug/L	150	50		03/03/16 08:19	1330-20-7	
cis-1,2-Dichloroethene	ND	ug/L	50.0	50		03/03/16 08:19	156-59-2	
cis-1,3-Dichloropropene	ND	ug/L	250	50		03/03/16 08:19	10061-01-5	
n-Butylbenzene	ND	ug/L	50.0	50		03/03/16 08:19	104-51-8	
n-Propylbenzene	ND	ug/L	50.0	50		03/03/16 08:19	103-65-1	
p-Isopropyltoluene	ND	ug/L	50.0	50		03/03/16 08:19	99-87-6	
sec-Butylbenzene	ND	ug/L	250	50		03/03/16 08:19	135-98-8	
tert-Butylbenzene	ND	ug/L	50.0	50		03/03/16 08:19	98-06-6	
trans-1,2-Dichloroethene	ND	ug/L	50.0	50		03/03/16 08:19	156-60-5	
trans-1,3-Dichloropropene	ND	ug/L	1000	50		03/03/16 08:19	10061-02-6	
Surrogates								
4-Bromofluorobenzene (S)	89	%	70-130	50		03/03/16 08:19	460-00-4	
Dibromofluoromethane (S)	105	%	70-130	50		03/03/16 08:19	1868-53-7	
Toluene-d8 (S)	98	%	70-130	50		03/03/16 08:19	2037-26-5	



## **ANALYTICAL RESULTS**

Project: City of Rochester-CRC

Pace Project No.: 10339705

Date: 03/03/2016 10:19 AM

Sample: DPE-5	Lab ID: 103	39705005	Collected: 02/23/1	16 15:35	Received:	02/25/16 10:25	Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qua
8260 MSV	Analytical Met	hod: EPA 82	260					
1,1,1,2-Tetrachloroethane	ND	ug/L	2.0	2		03/02/16 17:4	1 630-20-6	
1,1,1-Trichloroethane	ND	ug/L	2.0	2		03/02/16 17:4	1 71-55-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	2.0	2		03/02/16 17:4	1 79-34-5	
1,1,2-Trichloroethane	ND	ug/L	2.0	2		03/02/16 17:4	1 79-00-5	
1,1,2-Trichlorotrifluoroethane	ND	ug/L	10.0	2		03/02/16 17:4	1 76-13-1	
1,1-Dichloroethane	ND	ug/L	2.0	2		03/02/16 17:4	1 75-34-3	
1,1-Dichloroethene	ND	ug/L	2.0	2		03/02/16 17:4	1 75-35-4	
1,1-Dichloropropene	ND	ug/L	2.0	2		03/02/16 17:4	1 563-58-6	
1,2,3-Trichlorobenzene	ND	ug/L	10.0	2		03/02/16 17:4	1 87-61-6	
1,2,3-Trichloropropane	ND	ug/L	2.0	2		03/02/16 17:4		
1,2,4-Trichlorobenzene	ND	ug/L	10.0	2		03/02/16 17:4		
1,2,4-Trimethylbenzene	ND	ug/L	2.0	2		03/02/16 17:4		
1,2-Dibromo-3-chloropropane	ND	ug/L	10.0	2		03/02/16 17:4		
1,2-Dibromoethane (EDB)	ND	ug/L	2.0	2		03/02/16 17:4		
1,2-Dichlorobenzene	ND	ug/L	2.0	2		03/02/16 17:4		
1,2-Dichloroethane	ND	ug/L	2.0	2		03/02/16 17:4		
1,2-Dichloropropane	ND ND	ug/L ug/L	2.0	2		03/02/16 17:4		
1,3,5-Trimethylbenzene	ND ND	ug/L	2.0	2		03/02/16 17:4		
1,3-Dichlorobenzene	ND ND		2.0	2		03/02/16 17:4		
		ug/L	2.0					
1,3-Dichloropropane	ND	ug/L		2		03/02/16 17:4		
1,4-Dichlorobenzene	ND	ug/L	2.0 2.0	2 2		03/02/16 17:4		
2,2-Dichloropropane	ND	ug/L				03/02/16 17:4		
2-Butanone (MEK)	ND	ug/L	40.0	2		03/02/16 17:4		
2-Chlorotoluene	ND	ug/L	2.0	2		03/02/16 17:4		
4-Chlorotoluene	ND	ug/L	2.0	2		03/02/16 17:4		
4-Methyl-2-pentanone (MIBK)	ND	ug/L	40.0	2		03/02/16 17:4		
Acetone	ND	ug/L	40.0	2		03/02/16 17:4		
Allyl chloride	ND	ug/L	10.0	2		03/02/16 17:4		
Benzene	ND	ug/L	2.0	2		03/02/16 17:4		
Bromobenzene	ND	ug/L	2.0	2		03/02/16 17:4		
Bromochloromethane	ND	ug/L	2.0	2		03/02/16 17:4		
Bromodichloromethane	ND	ug/L	2.0	2		03/02/16 17:4		
Bromoform	ND	ug/L	10.0	2		03/02/16 17:4		
Bromomethane	ND	ug/L	10.0	2		03/02/16 17:4	1 74-83-9	
Carbon tetrachloride	ND	ug/L	2.0	2		03/02/16 17:4	1 56-23-5	
Chlorobenzene	ND	ug/L	2.0	2		03/02/16 17:4	1 108-90-7	
Chloroethane	ND	ug/L	2.0	2		03/02/16 17:4	1 75-00-3	
Chloroform	ND	ug/L	10.0	2		03/02/16 17:4	1 67-66-3	
Chloromethane	ND	ug/L	2.0	2		03/02/16 17:4	1 74-87-3	
Dibromochloromethane	ND	ug/L	10.0	2		03/02/16 17:4	1 124-48-1	
Dibromomethane	ND	ug/L	2.0	2		03/02/16 17:4	1 74-95-3	
Dichlorodifluoromethane	ND	ug/L	2.0	2		03/02/16 17:4	1 75-71-8	
Dichlorofluoromethane	ND	ug/L	2.0	2		03/02/16 17:4	1 75-43-4	
Diethyl ether (Ethyl ether)	ND	ug/L	10.0	2		03/02/16 17:4	1 60-29-7	
Ethylbenzene	ND	ug/L	2.0	2		03/02/16 17:4	1 100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	10.0	2		03/02/16 17:4		
Isopropylbenzene (Cumene)	ND	ug/L	2.0	2		03/02/16 17:4		





Project: City of Rochester-CRC

Pace Project No.: 10339705

Date: 03/03/2016 10:19 AM

Sample: DPE-5	Lab ID: 103	39705005	Collected: 02/23/1	16 15:35	Received: 02/25/16 10:25	Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared Analyzed	CAS No.	Qua
8260 MSV	Analytical Meth	od: EPA 82	260				
Methyl-tert-butyl ether	ND	ug/L	2.0	2	03/02/16 17	:41 1634-04-4	
Methylene Chloride	ND	ug/L	2.0	2	03/02/16 17	:41 75-09-2	
Naphthalene	ND	ug/L	10.0	2	03/02/16 17	:41 91-20-3	
Styrene	ND	ug/L	2.0	2	03/02/16 17	:41 100-42-5	
Tetrachloroethene	148	ug/L	2.0	2	03/02/16 17	:41 127-18-4	
Tetrahydrofuran	ND	ug/L	10.0	2	03/02/16 17	:41 109-99-9	
Toluene	ND	ug/L	2.0	2	03/02/16 17	:41 108-88-3	
Trichloroethene	ND	ug/L	2.0	2	03/02/16 17	:41 79-01-6	
Trichlorofluoromethane	ND	ug/L	2.0	2	03/02/16 17	:41 75-69-4	
Vinyl chloride	ND	ug/L	2.0	2	03/02/16 17	:41 75-01-4	
Xylene (Total)	ND	ug/L	6.0	2	03/02/16 17	:41 1330-20-7	
cis-1,2-Dichloroethene	ND	ug/L	2.0	2	03/02/16 17	:41 156-59-2	
cis-1,3-Dichloropropene	ND	ug/L	10.0	2	03/02/16 17	:41 10061-01-5	
n-Butylbenzene	ND	ug/L	2.0	2	03/02/16 17	:41 104-51-8	
n-Propylbenzene	ND	ug/L	2.0	2	03/02/16 17	:41 103-65-1	
p-Isopropyltoluene	ND	ug/L	2.0	2	03/02/16 17	:41 99-87-6	
sec-Butylbenzene	ND	ug/L	10.0	2	03/02/16 17	:41 135-98-8	
tert-Butylbenzene	ND	ug/L	2.0	2	03/02/16 17	:41 98-06-6	
trans-1,2-Dichloroethene	ND	ug/L	2.0	2	03/02/16 17	:41 156-60-5	
trans-1,3-Dichloropropene	ND	ug/L	40.0	2	03/02/16 17	:41 10061-02-6	
Surrogates							
4-Bromofluorobenzene (S)	93	%	70-130	2	03/02/16 17	:41 460-00-4	
Dibromofluoromethane (S)	109	%	70-130	2	03/02/16 17	:41 1868-53-7	
Toluene-d8 (S)	97	%	70-130	2	03/02/16 17	:41 2037-26-5	



## **ANALYTICAL RESULTS**

Project: City of Rochester-CRC

Pace Project No.: 10339705

Date: 03/03/2016 10:19 AM

Sample: DPE-6	Lab ID:	10339705006	Collected: 02/23/1	16 15:05	Received:	02/25/16 10:25	Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qua
3260 MSV	Analytical N	Method: EPA 82	260					
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		03/03/16 07:56	6 630-20-6	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		03/03/16 07:56	71-55-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		03/03/16 07:56	79-34-5	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		03/03/16 07:56	6 79-00-5	
1,1,2-Trichlorotrifluoroethane	ND	ug/L	5.0	1		03/03/16 07:56	6 76-13-1	
1,1-Dichloroethane	ND		1.0	1		03/03/16 07:56	5 75-34-3	
1,1-Dichloroethene	ND	ug/L	1.0	1		03/03/16 07:56	6 75-35-4	
1,1-Dichloropropene	ND		1.0	1		03/03/16 07:56	5 563-58-6	
I,2,3-Trichlorobenzene	ND	•	5.0	1		03/03/16 07:56		
1,2,3-Trichloropropane	ND	•	1.0	1		03/03/16 07:56		
1,2,4-Trichlorobenzene	ND		5.0	1		03/03/16 07:56		
I,2,4-Trimethylbenzene	ND	9	1.0	1		03/03/16 07:56		
I,2-Dibromo-3-chloropropane	ND	ū	5.0	1		03/03/16 07:56		
I,2-Dibromoethane (EDB)	ND	ū	1.0	1		03/03/16 07:56		
,2-Dichlorobenzene	ND	J	1.0	1		03/03/16 07:56		
,,2-Dichlorobenzene	ND	0	1.0	1		03/03/16 07:56		
•	ND ND	J	1.0	1		03/03/16 07:56		
,2-Dichloropropane		J		1				
,3,5-Trimethylbenzene	ND	•	1.0			03/03/16 07:56		
,3-Dichlorobenzene	ND		1.0	1		03/03/16 07:56		
,3-Dichloropropane	ND	0	1.0	1		03/03/16 07:56		
,4-Dichlorobenzene	ND	J	1.0	1		03/03/16 07:56		
2,2-Dichloropropane	ND	J	1.0	1		03/03/16 07:56		
2-Butanone (MEK)	ND	•	20.0	1		03/03/16 07:56		
2-Chlorotoluene	ND	•	1.0	1		03/03/16 07:56		
I-Chlorotoluene	ND	0	1.0	1		03/03/16 07:56		
I-Methyl-2-pentanone (MIBK)	ND	ū	20.0	1		03/03/16 07:56		
Acetone	ND	0	20.0	1		03/03/16 07:56		
Allyl chloride	ND	•	5.0	1		03/03/16 07:56		
Benzene	ND	ug/L	1.0	1		03/03/16 07:56	5 71-43-2	
Bromobenzene	ND	ug/L	1.0	1		03/03/16 07:56	6 108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		03/03/16 07:56	6 74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		03/03/16 07:56	5 75-27-4	
Bromoform	ND	ug/L	5.0	1		03/03/16 07:56	6 75-25-2	
Bromomethane	ND	ug/L	5.0	1		03/03/16 07:56	6 74-83-9	
Carbon tetrachloride	ND	ug/L	1.0	1		03/03/16 07:56	5 56-23-5	
Chlorobenzene	ND		1.0	1		03/03/16 07:56	6 108-90-7	
Chloroethane	ND	•	1.0	1		03/03/16 07:56	6 75-00-3	
Chloroform	ND		5.0	1		03/03/16 07:56	6 67-66-3	
Chloromethane	ND	ū	1.0	1		03/03/16 07:56	6 74-87-3	
Dibromochloromethane	ND	J	5.0	1		03/03/16 07:56		
Dibromomethane	ND	0	1.0	1		03/03/16 07:56	-	
Dichlorodifluoromethane	ND	9	1.0	1		03/03/16 07:56		
Dichlorofluoromethane	ND	ū	1.0	1		03/03/16 07:56		
Diethyl ether (Ethyl ether)	ND	ū	5.0	1		03/03/16 07:56		
	ND ND	•	1.0	1		03/03/16 07:56		
Ethylbenzene Hexachloro-1,3-butadiene		J						
nexachioro- i.3-dutadiene	ND	ug/L	5.0	1		03/03/16 07:56	o/-08-3	

## **REPORT OF LABORATORY ANALYSIS**

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Project: City of Rochester-CRC

Pace Project No.: 10339705

Date: 03/03/2016 10:19 AM

Sample: DPE-6	Lab ID: 103	39705006	Collected: 02/23/1	16 15:05	Received: 02	/25/16 10:25 N	Natrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qua
8260 MSV	Analytical Meth	od: EPA 82	260					
Methyl-tert-butyl ether	ND	ug/L	1.0	1		03/03/16 07:56	1634-04-4	
Methylene Chloride	ND	ug/L	1.0	1		03/03/16 07:56	75-09-2	
Naphthalene	ND	ug/L	5.0	1		03/03/16 07:56	91-20-3	
Styrene	ND	ug/L	1.0	1		03/03/16 07:56	100-42-5	
Tetrachloroethene	5.8	ug/L	1.0	1		03/03/16 07:56	127-18-4	
Tetrahydrofuran	ND	ug/L	5.0	1		03/03/16 07:56	109-99-9	
Toluene	ND	ug/L	1.0	1		03/03/16 07:56	108-88-3	
Trichloroethene	ND	ug/L	1.0	1		03/03/16 07:56	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		03/03/16 07:56	75-69-4	
Vinyl chloride	ND	ug/L	1.0	1		03/03/16 07:56	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		03/03/16 07:56	1330-20-7	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		03/03/16 07:56	156-59-2	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		03/03/16 07:56	10061-01-5	
n-Butylbenzene	ND	ug/L	1.0	1		03/03/16 07:56	104-51-8	
n-Propylbenzene	ND	ug/L	1.0	1		03/03/16 07:56	103-65-1	
p-Isopropyltoluene	ND	ug/L	1.0	1		03/03/16 07:56	99-87-6	
sec-Butylbenzene	ND	ug/L	5.0	1		03/03/16 07:56	135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	1		03/03/16 07:56	98-06-6	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		03/03/16 07:56	156-60-5	
trans-1,3-Dichloropropene	ND	ug/L	20.0	1		03/03/16 07:56	10061-02-6	
Surrogates								
4-Bromofluorobenzene (S)	88	%	70-130	1		03/03/16 07:56	460-00-4	
Dibromofluoromethane (S)	100	%	70-130	1		03/03/16 07:56	1868-53-7	
Toluene-d8 (S)	93	%	70-130	1		03/03/16 07:56	2037-26-5	



## **ANALYTICAL RESULTS**

Project: City of Rochester-CRC

Pace Project No.: 10339705

Date: 03/03/2016 10:19 AM

Sample: DPE-7	Lab ID: 103	39705007	Collected: 02/23/1	6 13:15	Received:	02/25/16 10:25	Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qua
8260 MSV	Analytical Met	hod: EPA 82	260					
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		03/02/16 19:5	5 630-20-6	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		03/02/16 19:5	5 71-55-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		03/02/16 19:5	5 79-34-5	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		03/02/16 19:5	5 79-00-5	
1,1,2-Trichlorotrifluoroethane	ND	ug/L	5.0	1		03/02/16 19:5	5 76-13-1	
1,1-Dichloroethane	ND	ug/L	1.0	1		03/02/16 19:5	5 75-34-3	
1,1-Dichloroethene	ND	ug/L	1.0	1		03/02/16 19:5	5 75-35-4	
1,1-Dichloropropene	ND	ug/L	1.0	1		03/02/16 19:5	5 563-58-6	
1,2,3-Trichlorobenzene	ND	ug/L	5.0	1		03/02/16 19:5	5 87-61-6	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		03/02/16 19:5	5 96-18-4	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		03/02/16 19:5		
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1		03/02/16 19:5		
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	1		03/02/16 19:5		
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		03/02/16 19:5		
1,2-Dichlorobenzene	ND	ug/L	1.0	1		03/02/16 19:5		
1,2-Dichlorogenzene	ND ND	_	1.0	1		03/02/16 19:5		
1,2-Dichloropropane	ND ND	ug/L	1.0	1		03/02/16 19:5		
	ND	ug/L	1.0	1		03/02/16 19:5		
I,3,5-Trimethylbenzene		ug/L		1				
,3-Dichlorobenzene	ND	ug/L	1.0			03/02/16 19:5		
1,3-Dichloropropane	ND	ug/L	1.0	1		03/02/16 19:5		
1,4-Dichlorobenzene	ND	ug/L	1.0	1		03/02/16 19:5		
2,2-Dichloropropane	ND	ug/L	1.0	1		03/02/16 19:5		
2-Butanone (MEK)	ND	ug/L	20.0	1		03/02/16 19:5		
2-Chlorotoluene	ND	ug/L	1.0	1		03/02/16 19:5		
1-Chlorotoluene	ND	ug/L	1.0	1		03/02/16 19:5		
4-Methyl-2-pentanone (MIBK)	ND	ug/L	20.0	1		03/02/16 19:5		
Acetone	ND	ug/L	20.0	1		03/02/16 19:5		
Allyl chloride	ND	ug/L	5.0	1		03/02/16 19:5		
Benzene	ND	ug/L	1.0	1		03/02/16 19:5		
Bromobenzene	ND	ug/L	1.0	1		03/02/16 19:5		
Bromochloromethane	ND	ug/L	1.0	1		03/02/16 19:5	5 74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		03/02/16 19:5	5 75-27-4	
Bromoform	ND	ug/L	5.0	1		03/02/16 19:5	5 75-25-2	
Bromomethane	ND	ug/L	5.0	1		03/02/16 19:5	5 74-83-9	
Carbon tetrachloride	ND	ug/L	1.0	1		03/02/16 19:5	5 56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		03/02/16 19:5	5 108-90-7	
Chloroethane	ND	ug/L	1.0	1		03/02/16 19:5	5 75-00-3	
Chloroform	ND	ug/L	5.0	1		03/02/16 19:5	5 67-66-3	
Chloromethane	ND	ug/L	1.0	1		03/02/16 19:5	5 74-87-3	
Dibromochloromethane	ND	ug/L	5.0	1		03/02/16 19:5		
Dibromomethane	ND	ug/L	1.0	1		03/02/16 19:5		
Dichlorodifluoromethane	ND	ug/L	1.0	1		03/02/16 19:5		
Dichlorofluoromethane	ND	ug/L	1.0	1		03/02/16 19:5		
Diethyl ether (Ethyl ether)	ND	ug/L	5.0	1		03/02/16 19:5		
Ethylbenzene	ND	ug/L	1.0	1		03/02/16 19:5		
Hexachloro-1,3-butadiene	ND	ug/L	5.0	1		03/02/16 19:5		
sopropylbenzene (Cumene)	ND ND	ug/L ug/L	1.0	1		03/02/16 19:5		



Project: City of Rochester-CRC

Pace Project No.: 10339705

Date: 03/03/2016 10:19 AM

Sample: DPE-7	Lab ID: 1033	39705007	Collected: 02/23/1	6 13:15	Received: 02	2/25/16 10:25 N	latrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qua
8260 MSV	Analytical Meth	nod: EPA 82	60					
Methyl-tert-butyl ether	ND	ug/L	1.0	1		03/02/16 19:55	1634-04-4	
Methylene Chloride	ND	ug/L	1.0	1		03/02/16 19:55	75-09-2	
Naphthalene	ND	ug/L	5.0	1		03/02/16 19:55	91-20-3	
Styrene	ND	ug/L	1.0	1		03/02/16 19:55	100-42-5	
Tetrachloroethene	3.4	ug/L	1.0	1		03/02/16 19:55	127-18-4	
Tetrahydrofuran	ND	ug/L	5.0	1		03/02/16 19:55	109-99-9	
Toluene	ND	ug/L	1.0	1		03/02/16 19:55	108-88-3	
Trichloroethene	ND	ug/L	1.0	1		03/02/16 19:55	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		03/02/16 19:55	75-69-4	
Vinyl chloride	ND	ug/L	1.0	1		03/02/16 19:55	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		03/02/16 19:55	1330-20-7	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		03/02/16 19:55	156-59-2	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		03/02/16 19:55	10061-01-5	
n-Butylbenzene	ND	ug/L	1.0	1		03/02/16 19:55	104-51-8	
n-Propylbenzene	ND	ug/L	1.0	1		03/02/16 19:55	103-65-1	
p-Isopropyltoluene	ND	ug/L	1.0	1		03/02/16 19:55	99-87-6	
sec-Butylbenzene	ND	ug/L	5.0	1		03/02/16 19:55	135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	1		03/02/16 19:55	98-06-6	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		03/02/16 19:55	156-60-5	
trans-1,3-Dichloropropene <b>Surrogates</b>	ND	ug/L	20.0	1		03/02/16 19:55	10061-02-6	
4-Bromofluorobenzene (S)	92	%	70-130	1		03/02/16 19:55	460-00-4	
Dibromofluoromethane (S)	109	%	70-130	1		03/02/16 19:55		
Toluene-d8 (S)	95	%	70-130	1		03/02/16 19:55		



## **ANALYTICAL RESULTS**

Project: City of Rochester-CRC

Pace Project No.: 10339705

Date: 03/03/2016 10:19 AM

Sample: DPE-8	Lab ID: 103	39705008	Collected: 02/23/1	16 16:00	Received:	02/25/16 10:25	Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qua
8260 MSV	Analytical Met	hod: EPA 82	260					
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	5		03/02/16 16:1	1 630-20-6	
1,1,1-Trichloroethane	ND	ug/L	5.0	5		03/02/16 16:1	1 71-55-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	5		03/02/16 16:1	1 79-34-5	
1,1,2-Trichloroethane	ND	ug/L	5.0	5		03/02/16 16:1	1 79-00-5	
1,1,2-Trichlorotrifluoroethane	39.6	ug/L	25.0	5		03/02/16 16:1	1 76-13-1	
1,1-Dichloroethane	ND	ug/L	5.0	5		03/02/16 16:1	1 75-34-3	
1,1-Dichloroethene	ND	ug/L	5.0	5		03/02/16 16:1	1 75-35-4	
1,1-Dichloropropene	ND	ug/L	5.0	5		03/02/16 16:1	1 563-58-6	
1,2,3-Trichlorobenzene	ND	ug/L	25.0	5		03/02/16 16:1	1 87-61-6	
1,2,3-Trichloropropane	ND	ug/L	5.0	5		03/02/16 16:1		
1,2,4-Trichlorobenzene	ND	ug/L	25.0	5		03/02/16 16:1		
1,2,4-Trimethylbenzene	ND	ug/L	5.0	5		03/02/16 16:1		
1,2-Dibromo-3-chloropropane	ND	ug/L	25.0	5		03/02/16 16:1		
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	5		03/02/16 16:1		
1,2-Dichlorobenzene	ND	ug/L	5.0	5		03/02/16 16:1		
1,2-Dichloroethane	ND	ug/L	5.0	5		03/02/16 16:1		
1,2-Dichloropropane	ND ND	ug/L ug/L	5.0	5		03/02/16 16:1		
1,3,5-Trimethylbenzene	ND ND	ug/L	5.0	5		03/02/16 16:1		
1,3-Dichlorobenzene	ND ND		5.0	5		03/02/16 16:1		
		ug/L				03/02/16 16:1		
1,3-Dichloropropane	ND	ug/L	5.0	5				
1,4-Dichlorobenzene	ND	ug/L	5.0	5 5		03/02/16 16:1		
2,2-Dichloropropane	ND	ug/L	5.0			03/02/16 16:1		
2-Butanone (MEK)	ND	ug/L	100	5		03/02/16 16:1		
2-Chlorotoluene	ND	ug/L	5.0	5		03/02/16 16:1		
4-Chlorotoluene	ND	ug/L	5.0	5		03/02/16 16:1		
4-Methyl-2-pentanone (MIBK)	ND	ug/L	100	5		03/02/16 16:1		
Acetone	ND	ug/L	100	5		03/02/16 16:1		
Allyl chloride	ND	ug/L	25.0	5		03/02/16 16:1		
Benzene	ND	ug/L	5.0	5		03/02/16 16:1		
Bromobenzene	ND	ug/L	5.0	5		03/02/16 16:1		
Bromochloromethane	ND	ug/L	5.0	5		03/02/16 16:1		
Bromodichloromethane	ND	ug/L	5.0	5		03/02/16 16:1	1 75-27-4	
Bromoform	ND	ug/L	25.0	5		03/02/16 16:1		
Bromomethane	ND	ug/L	25.0	5		03/02/16 16:1	1 74-83-9	
Carbon tetrachloride	ND	ug/L	5.0	5		03/02/16 16:1	1 56-23-5	
Chlorobenzene	ND	ug/L	5.0	5		03/02/16 16:1	1 108-90-7	
Chloroethane	ND	ug/L	5.0	5		03/02/16 16:1	1 75-00-3	
Chloroform	ND	ug/L	25.0	5		03/02/16 16:1	1 67-66-3	
Chloromethane	ND	ug/L	5.0	5		03/02/16 16:1	1 74-87-3	
Dibromochloromethane	ND	ug/L	25.0	5		03/02/16 16:1	1 124-48-1	
Dibromomethane	ND	ug/L	5.0	5		03/02/16 16:1	1 74-95-3	
Dichlorodifluoromethane	ND	ug/L	5.0	5		03/02/16 16:1		
Dichlorofluoromethane	ND	ug/L	5.0	5		03/02/16 16:1		
Diethyl ether (Ethyl ether)	ND	ug/L	25.0	5		03/02/16 16:1		
Ethylbenzene	ND	ug/L	5.0	5		03/02/16 16:1		
Hexachloro-1,3-butadiene	ND	ug/L	25.0	5		03/02/16 16:1		
Isopropylbenzene (Cumene)	ND	ug/L	5.0	5		03/02/16 16:1		





Project: City of Rochester-CRC

Pace Project No.: 10339705

Date: 03/03/2016 10:19 AM

Sample: DPE-8	Lab ID: 103	39705008	Collected: 02/23/1	16:00	Received: 02/25/16 10:25	Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared Analyzed	CAS No.	Qua
8260 MSV	Analytical Meth	nod: EPA 82	260				
Methyl-tert-butyl ether	ND	ug/L	5.0	5	03/02/16 16	11 1634-04-4	
Methylene Chloride	ND	ug/L	5.0	5	03/02/16 16	11 75-09-2	
Naphthalene	ND	ug/L	25.0	5	03/02/16 16	11 91-20-3	
Styrene	ND	ug/L	5.0	5	03/02/16 16	11 100-42-5	
Tetrachloroethene	503	ug/L	5.0	5	03/02/16 16	11 127-18-4	
Tetrahydrofuran	ND	ug/L	25.0	5	03/02/16 16	11 109-99-9	
Toluene	ND	ug/L	5.0	5	03/02/16 16	11 108-88-3	
Trichloroethene	ND	ug/L	5.0	5	03/02/16 16	11 79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	5	03/02/16 16	11 75-69-4	
Vinyl chloride	ND	ug/L	5.0	5	03/02/16 16	11 75-01-4	
Xylene (Total)	ND	ug/L	15.0	5	03/02/16 16	11 1330-20-7	
cis-1,2-Dichloroethene	ND	ug/L	5.0	5	03/02/16 16	11 156-59-2	
cis-1,3-Dichloropropene	ND	ug/L	25.0	5	03/02/16 16	11 10061-01-5	
n-Butylbenzene	ND	ug/L	5.0	5	03/02/16 16	11 104-51-8	
n-Propylbenzene	ND	ug/L	5.0	5	03/02/16 16	11 103-65-1	
p-Isopropyltoluene	ND	ug/L	5.0	5	03/02/16 16	11 99-87-6	
sec-Butylbenzene	ND	ug/L	25.0	5	03/02/16 16	11 135-98-8	
tert-Butylbenzene	ND	ug/L	5.0	5	03/02/16 16	11 98-06-6	
trans-1,2-Dichloroethene	ND	ug/L	5.0	5	03/02/16 16	11 156-60-5	
trans-1,3-Dichloropropene <b>Surrogates</b>	ND	ug/L	100	5	03/02/16 16	11 10061-02-6	
4-Bromofluorobenzene (S)	92	%	70-130	5	03/02/16 16	11 460-00-4	
Dibromofluoromethane (S)	105	%	70-130	5	03/02/16 16	11 1868-53-7	
Toluene-d8 (S)	96	%	70-130	5	03/02/16 16	11 2037-26-5	



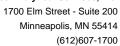
## **ANALYTICAL RESULTS**

Project: City of Rochester-CRC

Pace Project No.: 10339705

Date: 03/03/2016 10:19 AM

Sample: MW-14	Lab ID: 103	39705009	Collected: 02/23/1	6 13:40	Received:	02/25/16 10:25	Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qua
8260 MSV	Analytical Met	hod: EPA 82	260					
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		03/02/16 18:4	8 630-20-6	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		03/02/16 18:4	8 71-55-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		03/02/16 18:4	8 79-34-5	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		03/02/16 18:4	8 79-00-5	
1,1,2-Trichlorotrifluoroethane	ND	ug/L	5.0	1		03/02/16 18:4	8 76-13-1	
1,1-Dichloroethane	ND	ug/L	1.0	1		03/02/16 18:4	8 75-34-3	
1,1-Dichloroethene	ND	ug/L	1.0	1		03/02/16 18:4	8 75-35-4	
1,1-Dichloropropene	ND	ug/L	1.0	1		03/02/16 18:4	8 563-58-6	
1,2,3-Trichlorobenzene	ND	ug/L	5.0	1		03/02/16 18:4	8 87-61-6	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		03/02/16 18:4	8 96-18-4	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		03/02/16 18:4		
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1		03/02/16 18:4		
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	1		03/02/16 18:4		
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		03/02/16 18:4		
1,2-Dichlorobenzene	ND	ug/L	1.0	1		03/02/16 18:4		
1,2-Dichloroethane	ND ND	-	1.0	1		03/02/16 18:4		
1,2-Dichloropropane	ND ND	ug/L	1.0	1		03/02/16 18:4		
	ND ND	ug/L	1.0	1		03/02/16 18:4		
1,3,5-Trimethylbenzene		ug/L	1.0	1				
,3-Dichlorobenzene	ND	ug/L				03/02/16 18:4		
,3-Dichloropropane	ND	ug/L	1.0	1		03/02/16 18:4		
,4-Dichlorobenzene	ND	ug/L	1.0	1		03/02/16 18:4		
2,2-Dichloropropane	ND	ug/L	1.0	1		03/02/16 18:4		
2-Butanone (MEK)	ND	ug/L	20.0	1		03/02/16 18:4		
2-Chlorotoluene	ND	ug/L	1.0	1		03/02/16 18:4		
4-Chlorotoluene	ND	ug/L	1.0	1		03/02/16 18:4		
4-Methyl-2-pentanone (MIBK)	ND	ug/L	20.0	1		03/02/16 18:4		
Acetone	ND	ug/L	20.0	1		03/02/16 18:4		
Allyl chloride	ND	ug/L	5.0	1		03/02/16 18:4		
Benzene	ND	ug/L	1.0	1		03/02/16 18:4		
Bromobenzene	ND	ug/L	1.0	1		03/02/16 18:4	8 108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		03/02/16 18:4		
Bromodichloromethane	ND	ug/L	1.0	1		03/02/16 18:4		
Bromoform	ND	ug/L	5.0	1		03/02/16 18:4	8 75-25-2	
Bromomethane	ND	ug/L	5.0	1		03/02/16 18:4	8 74-83-9	
Carbon tetrachloride	ND	ug/L	1.0	1		03/02/16 18:4	8 56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		03/02/16 18:4	8 108-90-7	
Chloroethane	ND	ug/L	1.0	1		03/02/16 18:4	8 75-00-3	
Chloroform	ND	ug/L	5.0	1		03/02/16 18:4	8 67-66-3	
Chloromethane	ND	ug/L	1.0	1		03/02/16 18:4	8 74-87-3	
Dibromochloromethane	ND	ug/L	5.0	1		03/02/16 18:4	8 124-48-1	
Dibromomethane	ND	ug/L	1.0	1		03/02/16 18:4	8 74-95-3	
Dichlorodifluoromethane	ND	ug/L	1.0	1		03/02/16 18:4	8 75-71-8	
Dichlorofluoromethane	ND	ug/L	1.0	1		03/02/16 18:4		
Diethyl ether (Ethyl ether)	ND	ug/L	5.0	1		03/02/16 18:4		
Ethylbenzene	ND	ug/L	1.0	1		03/02/16 18:4		
Hexachloro-1,3-butadiene	ND	ug/L	5.0	1		03/02/16 18:4		
sopropylbenzene (Cumene)	ND	ug/L	1.0	1		03/02/16 18:4		





Project: City of Rochester-CRC

Pace Project No.: 10339705

Date: 03/03/2016 10:19 AM

Sample: MW-14	Lab ID: 103	39705009	Collected: 02/23/1	6 13:40	Received: 02/25/16 10:25	Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared Analyzed	CAS No.	Qua
8260 MSV	Analytical Meth	nod: EPA 82	260				
Methyl-tert-butyl ether	ND	ug/L	1.0	1	03/02/16 18:	48 1634-04-4	
Methylene Chloride	ND	ug/L	1.0	1	03/02/16 18:	48 75-09-2	
Naphthalene	ND	ug/L	5.0	1	03/02/16 18:	48 91-20-3	
Styrene	ND	ug/L	1.0	1	03/02/16 18:	48 100-42-5	
Tetrachloroethene	2.8	ug/L	1.0	1	03/02/16 18:	48 127-18-4	
Tetrahydrofuran	ND	ug/L	5.0	1	03/02/16 18:	48 109-99-9	
Toluene	ND	ug/L	1.0	1	03/02/16 18:	48 108-88-3	
Trichloroethene	ND	ug/L	1.0	1	03/02/16 18:	48 79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1	03/02/16 18:	48 75-69-4	
Vinyl chloride	ND	ug/L	1.0	1	03/02/16 18:	48 75-01-4	
Xylene (Total)	ND	ug/L	3.0	1	03/02/16 18:	48 1330-20-7	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1	03/02/16 18:	48 156-59-2	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1	03/02/16 18:	48 10061-01-5	
n-Butylbenzene	ND	ug/L	1.0	1	03/02/16 18:	48 104-51-8	
n-Propylbenzene	ND	ug/L	1.0	1	03/02/16 18:	48 103-65-1	
p-Isopropyltoluene	ND	ug/L	1.0	1	03/02/16 18:	48 99-87-6	
sec-Butylbenzene	ND	ug/L	5.0	1	03/02/16 18:	48 135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	1	03/02/16 18:	48 98-06-6	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1	03/02/16 18:	48 156-60-5	
trans-1,3-Dichloropropene	ND	ug/L	20.0	1	03/02/16 18:	48 10061-02-6	
Surrogates							
4-Bromofluorobenzene (S)	89	%	70-130	1	03/02/16 18:		
Dibromofluoromethane (S)	106	%	70-130	1		48 1868-53-7	
Toluene-d8 (S)	87	%	70-130	1	03/02/16 18:	48 2037-26-5	



## **ANALYTICAL RESULTS**

Project: City of Rochester-CRC

Pace Project No.: 10339705

Date: 03/03/2016 10:19 AM

Sample: MW-15	Lab ID: 103	39705010	Collected: 02/23/1	6 13:55	Received:	02/25/16 10:25	Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qua
8260 MSV	Analytical Met	hod: EPA 82	260					
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		03/02/16 19:1	1 630-20-6	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		03/02/16 19:1	1 71-55-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		03/02/16 19:1	1 79-34-5	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		03/02/16 19:1	1 79-00-5	
1,1,2-Trichlorotrifluoroethane	ND	ug/L	5.0	1		03/02/16 19:1	1 76-13-1	
1,1-Dichloroethane	ND	ug/L	1.0	1		03/02/16 19:1	1 75-34-3	
1,1-Dichloroethene	ND	ug/L	1.0	1		03/02/16 19:1	1 75-35-4	
1,1-Dichloropropene	ND	ug/L	1.0	1		03/02/16 19:1	1 563-58-6	
1,2,3-Trichlorobenzene	ND	ug/L	5.0	1		03/02/16 19:1	1 87-61-6	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		03/02/16 19:1		
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		03/02/16 19:1		
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1		03/02/16 19:1		
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	1		03/02/16 19:1		
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		03/02/16 19:1		
1,2-Dichlorobenzene	ND	ug/L	1.0	1		03/02/16 19:1		
1,2-Dichloroethane	ND	ug/L	1.0	1		03/02/16 19:1		
1,2-Dichloropropane	ND ND	ug/L ug/L	1.0	1		03/02/16 19:1		
1,3,5-Trimethylbenzene	ND ND	ug/L ug/L	1.0	1		03/02/16 19:1		
•	ND ND		1.0	1		03/02/16 19:1		
1,3-Dichlorobenzene		ug/L		1		03/02/16 19:1		
1,3-Dichloropropane	ND	ug/L	1.0					
1,4-Dichlorobenzene	ND	ug/L	1.0	1		03/02/16 19:1		
2,2-Dichloropropane	ND	ug/L	1.0	1		03/02/16 19:1		
2-Butanone (MEK)	ND	ug/L	20.0	1		03/02/16 19:1		
2-Chlorotoluene	ND	ug/L	1.0	1		03/02/16 19:1		
4-Chlorotoluene	ND	ug/L	1.0	1		03/02/16 19:1		
4-Methyl-2-pentanone (MIBK)	ND	ug/L	20.0	1		03/02/16 19:1		
Acetone	ND	ug/L	20.0	1		03/02/16 19:1		
Allyl chloride	ND	ug/L	5.0	1		03/02/16 19:1		
Benzene	ND	ug/L	1.0	1		03/02/16 19:1		
Bromobenzene	ND	ug/L	1.0	1		03/02/16 19:1		
Bromochloromethane	ND	ug/L	1.0	1		03/02/16 19:1		
Bromodichloromethane	ND	ug/L	1.0	1		03/02/16 19:1	1 75-27-4	
Bromoform	ND	ug/L	5.0	1		03/02/16 19:1		
Bromomethane	ND	ug/L	5.0	1		03/02/16 19:1	1 74-83-9	
Carbon tetrachloride	ND	ug/L	1.0	1		03/02/16 19:1	1 56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		03/02/16 19:1	1 108-90-7	
Chloroethane	ND	ug/L	1.0	1		03/02/16 19:1	1 75-00-3	
Chloroform	ND	ug/L	5.0	1		03/02/16 19:1	1 67-66-3	
Chloromethane	ND	ug/L	1.0	1		03/02/16 19:1	1 74-87-3	
Dibromochloromethane	ND	ug/L	5.0	1		03/02/16 19:1	1 124-48-1	
Dibromomethane	ND	ug/L	1.0	1		03/02/16 19:1	1 74-95-3	
Dichlorodifluoromethane	ND	ug/L	1.0	1		03/02/16 19:1		
Dichlorofluoromethane	ND	ug/L	1.0	1		03/02/16 19:1		
Diethyl ether (Ethyl ether)	ND	ug/L	5.0	1		03/02/16 19:1		
Ethylbenzene	ND	ug/L	1.0	1		03/02/16 19:1		
Hexachloro-1,3-butadiene	ND	ug/L	5.0	1		03/02/16 19:1		
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		03/02/16 19:1		

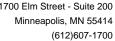


Project: City of Rochester-CRC

Pace Project No.: 10339705

Date: 03/03/2016 10:19 AM

Sample: MW-15	Lab ID: 103	39705010	Collected: 02/23/1	6 13:55	Received: 02	2/25/16 10:25 N	Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qua
8260 MSV	Analytical Meth	nod: EPA 82	60					
Methyl-tert-butyl ether	ND	ug/L	1.0	1		03/02/16 19:11	1634-04-4	
Methylene Chloride	ND	ug/L	1.0	1		03/02/16 19:11	75-09-2	
Naphthalene	ND	ug/L	5.0	1		03/02/16 19:11	91-20-3	
Styrene	ND	ug/L	1.0	1		03/02/16 19:11	100-42-5	
Tetrachloroethene	1.1	ug/L	1.0	1		03/02/16 19:11	127-18-4	
Tetrahydrofuran	ND	ug/L	5.0	1		03/02/16 19:11	109-99-9	
Toluene	ND	ug/L	1.0	1		03/02/16 19:11	108-88-3	
Trichloroethene	ND	ug/L	1.0	1		03/02/16 19:11	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		03/02/16 19:11	75-69-4	
Vinyl chloride	ND	ug/L	1.0	1		03/02/16 19:11	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		03/02/16 19:11	1330-20-7	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		03/02/16 19:11	156-59-2	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		03/02/16 19:11	10061-01-5	
n-Butylbenzene	ND	ug/L	1.0	1		03/02/16 19:11	104-51-8	
n-Propylbenzene	ND	ug/L	1.0	1		03/02/16 19:11	103-65-1	
p-Isopropyltoluene	ND	ug/L	1.0	1		03/02/16 19:11	99-87-6	
sec-Butylbenzene	ND	ug/L	5.0	1		03/02/16 19:11	135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	1		03/02/16 19:11	98-06-6	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		03/02/16 19:11	156-60-5	
trans-1,3-Dichloropropene  Surrogates	ND	ug/L	20.0	1		03/02/16 19:11	10061-02-6	
4-Bromofluorobenzene (S)	94	%	70-130	1		03/02/16 19:11	460-00-4	
Dibromofluoromethane (S)	111	%	70-130	1		03/02/16 19:11		
Toluene-d8 (S)	91	%	70-130	1		03/02/16 19:11		



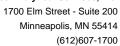


Project: City of Rochester-CRC

Pace Project No.: 10339705

Date: 03/03/2016 10:19 AM

Sample: MW-16	Lab ID: 10	339705011	Collected: 02/23/1	16 15:45	Received:	02/25/16 10:25	Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qua
3260 MSV	Analytical Me	thod: EPA 82	260					
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	5		03/02/16 16:3	3 630-20-6	
1,1,1-Trichloroethane	ND	ug/L	5.0	5		03/02/16 16:3	3 71-55-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	5		03/02/16 16:33	3 79-34-5	
1,1,2-Trichloroethane	ND	ug/L	5.0	5		03/02/16 16:33	3 79-00-5	
1,1,2-Trichlorotrifluoroethane	38.9	ug/L	25.0	5		03/02/16 16:3	3 76-13-1	
1,1-Dichloroethane	ND	ug/L	5.0	5		03/02/16 16:3	3 75-34-3	
1,1-Dichloroethene	ND	ug/L	5.0	5		03/02/16 16:3	3 75-35-4	
1,1-Dichloropropene	ND	ug/L	5.0	5		03/02/16 16:3	3 563-58-6	
,2,3-Trichlorobenzene	ND	ug/L	25.0	5		03/02/16 16:3	3 87-61-6	
1,2,3-Trichloropropane	ND	ug/L	5.0	5		03/02/16 16:3	3 96-18-4	
I,2,4-Trichlorobenzene	ND	ug/L	25.0	5		03/02/16 16:3	3 120-82-1	
,2,4-Trimethylbenzene	ND	ug/L	5.0	5		03/02/16 16:3		
I,2-Dibromo-3-chloropropane	ND	ug/L	25.0	5		03/02/16 16:3		
I,2-Dibromoethane (EDB)	ND	ug/L	5.0	5		03/02/16 16:3		
,2-Dichlorobenzene	ND	ug/L	5.0	5		03/02/16 16:3:		
.2-Dichloroethane	ND	ug/L	5.0	5		03/02/16 16:3		
,2-Dichloropropane	ND	ug/L	5.0	5		03/02/16 16:3		
,3,5-Trimethylbenzene	ND	ug/L	5.0	5		03/02/16 16:3		
,3-Dichlorobenzene	ND	ug/L	5.0	5		03/02/16 16:3		
,3-Dichloropropane	ND ND	ug/L	5.0	5		03/02/16 16:3		
,4-Dichlorobenzene	ND ND	ug/L ug/L	5.0	5		03/02/16 16:3:		
2,2-Dichloropropane	ND ND	-	5.0	5		03/02/16 16:3:		
	ND ND	ug/L	100	5		03/02/16 16:3		
-Butanone (MEK) -Chlorotoluene	ND ND	ug/L	5.0	5 5		03/02/16 16:3		
		ug/L		5 5				
I-Chlorotoluene	ND	ug/L	5.0	5 5		03/02/16 16:3		
I-Methyl-2-pentanone (MIBK)	ND	ug/L	100	5 5		03/02/16 16:3		
Acetone	ND	ug/L	100			03/02/16 16:3		
Allyl chloride	ND	ug/L	25.0	5		03/02/16 16:3:		
Benzene	ND	ug/L	5.0	5		03/02/16 16:3:		
Bromobenzene	ND	ug/L	5.0	5		03/02/16 16:3:		
Bromochloromethane	ND	ug/L	5.0	5		03/02/16 16:3:		
Bromodichloromethane	ND	ug/L	5.0	5		03/02/16 16:3:		
Bromoform	ND	ug/L	25.0	5		03/02/16 16:3:		
Bromomethane	ND	ug/L	25.0	5		03/02/16 16:3:		
Carbon tetrachloride	ND	ug/L	5.0	5		03/02/16 16:3:		
Chlorobenzene	ND	ug/L	5.0	5		03/02/16 16:3		
Chloroethane	ND	ug/L	5.0	5		03/02/16 16:3		
Chloroform	ND	ug/L	25.0	5		03/02/16 16:3		
Chloromethane	ND	ug/L	5.0	5		03/02/16 16:3	3 74-87-3	
Dibromochloromethane	ND	ug/L	25.0	5		03/02/16 16:3		
Dibromomethane	ND	ug/L	5.0	5		03/02/16 16:3		
Dichlorodifluoromethane	ND	ug/L	5.0	5		03/02/16 16:3		
Dichlorofluoromethane	ND	ug/L	5.0	5		03/02/16 16:3	3 75-43-4	
Diethyl ether (Ethyl ether)	ND	ug/L	25.0	5		03/02/16 16:3	3 60-29-7	
thylbenzene	ND	ug/L	5.0	5		03/02/16 16:3	3 100-41-4	
dexachloro-1,3-butadiene	ND	ug/L	25.0	5		03/02/16 16:3	3 87-68-3	
sopropylbenzene (Cumene)	ND	ug/L	5.0	5		03/02/16 16:3	3 98-82-8	



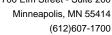


Project: City of Rochester-CRC

Pace Project No.: 10339705

Date: 03/03/2016 10:19 AM

Sample: MW-16	Lab ID: 103	39705011	Collected: 02/23/1	6 15:45	Received: 02/25/16 10:25	Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared Analyze	CAS No.	Qua
8260 MSV	Analytical Meth	nod: EPA 82	260				
Methyl-tert-butyl ether	ND	ug/L	5.0	5	03/02/16 16	:33 1634-04-4	
Methylene Chloride	ND	ug/L	5.0	5	03/02/16 16	:33 75-09-2	
Naphthalene	ND	ug/L	25.0	5	03/02/16 16	:33 91-20-3	
Styrene	ND	ug/L	5.0	5	03/02/16 16	:33 100-42-5	
Tetrachloroethene	461	ug/L	5.0	5	03/02/16 16	:33 127-18-4	
Tetrahydrofuran	ND	ug/L	25.0	5	03/02/16 16	:33 109-99-9	
Toluene	ND	ug/L	5.0	5	03/02/16 16	:33 108-88-3	
Trichloroethene	ND	ug/L	5.0	5	03/02/16 16	:33 79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	5	03/02/16 16	:33 75-69-4	
Vinyl chloride	ND	ug/L	5.0	5	03/02/16 16	:33 75-01-4	
Xylene (Total)	ND	ug/L	15.0	5	03/02/16 16	:33 1330-20-7	
cis-1,2-Dichloroethene	ND	ug/L	5.0	5	03/02/16 16	:33 156-59-2	
cis-1,3-Dichloropropene	ND	ug/L	25.0	5	03/02/16 16	:33 10061-01-5	
n-Butylbenzene	ND	ug/L	5.0	5	03/02/16 16	:33 104-51-8	
n-Propylbenzene	ND	ug/L	5.0	5	03/02/16 16	:33 103-65-1	
p-Isopropyltoluene	ND	ug/L	5.0	5	03/02/16 16	:33 99-87-6	
sec-Butylbenzene	ND	ug/L	25.0	5	03/02/16 16	:33 135-98-8	
tert-Butylbenzene	ND	ug/L	5.0	5	03/02/16 16	:33 98-06-6	
trans-1,2-Dichloroethene	ND	ug/L	5.0	5	03/02/16 16	:33 156-60-5	
trans-1,3-Dichloropropene	ND	ug/L	100	5	03/02/16 16	:33 10061-02-6	
Surrogates							
4-Bromofluorobenzene (S)	93	%	70-130	5		:33 460-00-4	
Dibromofluoromethane (S)	107	%	70-130	5	03/02/16 16		
Toluene-d8 (S)	91	%	70-130	5	03/02/16 16	:33 2037-26-5	





Project: City of Rochester-CRC

Pace Project No.: 10339705

Date: 03/03/2016 10:19 AM

Sample: MW-17	Lab ID: 1	0339705012	Collected: 02/23/1	16 17:35	Received:	02/25/16 10:25	Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qua
3260 MSV	Analytical M	ethod: EPA 82	260					
1,1,1,2-Tetrachloroethane	ND	ug/L	10.0	10		03/02/16 16:56	630-20-6	
1,1,1-Trichloroethane	ND	ug/L	10.0	10		03/02/16 16:56	71-55-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	10.0	10		03/02/16 16:56	79-34-5	
1,1,2-Trichloroethane	ND	ug/L	10.0	10		03/02/16 16:56	79-00-5	
1,1,2-Trichlorotrifluoroethane	ND	ug/L	50.0	10		03/02/16 16:56	6 76-13-1	
1,1-Dichloroethane	ND	ug/L	10.0	10		03/02/16 16:56	5 75-34-3	
,1-Dichloroethene	ND	ug/L	10.0	10		03/02/16 16:56	5 75-35-4	
1,1-Dichloropropene	ND	ug/L	10.0	10		03/02/16 16:56	563-58-6	
,2,3-Trichlorobenzene	ND	ug/L	50.0	10		03/02/16 16:56		
,2,3-Trichloropropane	ND	ug/L	10.0	10		03/02/16 16:56		
,2,4-Trichlorobenzene	ND	ug/L	50.0	10		03/02/16 16:56		
I,2,4-Trimethylbenzene	ND	ug/L	10.0	10		03/02/16 16:56		
,2-Dibromo-3-chloropropane	ND	ug/L	50.0	10		03/02/16 16:56		
,2-Dibromoethane (EDB)	ND	ug/L	10.0	10		03/02/16 16:56		
,2-Dichlorobenzene	ND	ug/L	10.0	10		03/02/16 16:56		
.2-Dichloroethane	ND	ug/L	10.0	10		03/02/16 16:56		
,2-Dichloropropane	ND ND	-	10.0	10		03/02/16 16:56		
• •	ND ND	ug/L	10.0	10		03/02/16 16:56		
,3,5-Trimethylbenzene		ug/L		10		03/02/16 16:56		
,3-Dichlorobenzene	ND	ug/L	10.0					
,3-Dichloropropane	ND	ug/L	10.0	10		03/02/16 16:56		
,4-Dichlorobenzene	ND	ug/L	10.0	10		03/02/16 16:56		
,2-Dichloropropane	ND	ug/L	10.0	10		03/02/16 16:56		
-Butanone (MEK)	ND	ug/L	200	10		03/02/16 16:56		
2-Chlorotoluene	ND	ug/L	10.0	10		03/02/16 16:56		
-Chlorotoluene	ND	ug/L	10.0	10		03/02/16 16:56		
-Methyl-2-pentanone (MIBK)	ND	ug/L	200	10		03/02/16 16:56		
acetone	ND	ug/L	200	10		03/02/16 16:56		
allyl chloride	ND	ug/L	50.0	10		03/02/16 16:56		
Benzene	ND	ug/L	10.0	10		03/02/16 16:56		
Bromobenzene	ND	ug/L	10.0	10		03/02/16 16:56		
Bromochloromethane	ND	ug/L	10.0	10		03/02/16 16:56	6 74-97-5	
Bromodichloromethane	ND	ug/L	10.0	10		03/02/16 16:56	6 75-27-4	
Bromoform	ND	ug/L	50.0	10		03/02/16 16:56	5 75-25-2	
Bromomethane	ND	ug/L	50.0	10		03/02/16 16:56	6 74-83-9	
Carbon tetrachloride	ND	ug/L	10.0	10		03/02/16 16:56	56-23-5	
Chlorobenzene	ND	ug/L	10.0	10		03/02/16 16:56	108-90-7	
Chloroethane	ND	ug/L	10.0	10		03/02/16 16:56	75-00-3	
Chloroform	ND	ug/L	50.0	10		03/02/16 16:56	67-66-3	
hloromethane	ND	ug/L	10.0	10		03/02/16 16:56	6 74-87-3	
ibromochloromethane	ND	ug/L	50.0	10		03/02/16 16:56	6 124-48-1	
Dibromomethane	ND	ug/L	10.0	10		03/02/16 16:56	74-95-3	
Dichlorodifluoromethane	ND	ug/L	10.0	10		03/02/16 16:56		
ichlorofluoromethane	ND	ug/L	10.0	10		03/02/16 16:56		
Diethyl ether (Ethyl ether)	ND	ug/L	50.0	10		03/02/16 16:56		
ithylbenzene	ND	ug/L	10.0	10		03/02/16 16:56		
lexachloro-1,3-butadiene	ND	ug/L	50.0	10		03/02/16 16:56		
sopropylbenzene (Cumene)	ND ND	ug/L ug/L	10.0	10		03/02/16 16:56		



Project: City of Rochester-CRC

Pace Project No.: 10339705

Date: 03/03/2016 10:19 AM

Sample: MW-17	Lab ID: 103	39705012	Collected: 02/23/1	6 17:35	Received: 02/2	5/16 10:25 N	Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qua
8260 MSV	Analytical Meth	nod: EPA 82	260					
Methyl-tert-butyl ether	ND	ug/L	10.0	10	0	3/02/16 16:56	1634-04-4	
Methylene Chloride	ND	ug/L	10.0	10	0	3/02/16 16:56	75-09-2	
Naphthalene	ND	ug/L	50.0	10	0	3/02/16 16:56	91-20-3	
Styrene	ND	ug/L	10.0	10	0	3/02/16 16:56	100-42-5	
Tetrachloroethene	877	ug/L	10.0	10	0	3/02/16 16:56	127-18-4	
Tetrahydrofuran	ND	ug/L	50.0	10	0	3/02/16 16:56	109-99-9	
Toluene	ND	ug/L	10.0	10	0	3/02/16 16:56	108-88-3	
Trichloroethene	ND	ug/L	10.0	10	0	3/02/16 16:56	79-01-6	
Trichlorofluoromethane	ND	ug/L	10.0	10	0	3/02/16 16:56	75-69-4	
Vinyl chloride	ND	ug/L	10.0	10	0	3/02/16 16:56	75-01-4	
Xylene (Total)	ND	ug/L	30.0	10	0	3/02/16 16:56	1330-20-7	
cis-1,2-Dichloroethene	ND	ug/L	10.0	10	0	3/02/16 16:56	156-59-2	
cis-1,3-Dichloropropene	ND	ug/L	50.0	10	0	3/02/16 16:56	10061-01-5	
n-Butylbenzene	ND	ug/L	10.0	10	0	3/02/16 16:56	104-51-8	
n-Propylbenzene	ND	ug/L	10.0	10	0	3/02/16 16:56	103-65-1	
p-Isopropyltoluene	ND	ug/L	10.0	10	0	3/02/16 16:56	99-87-6	
sec-Butylbenzene	ND	ug/L	50.0	10	0	3/02/16 16:56	135-98-8	
tert-Butylbenzene	ND	ug/L	10.0	10	0	3/02/16 16:56	98-06-6	
trans-1,2-Dichloroethene	ND	ug/L	10.0	10	0	3/02/16 16:56	156-60-5	
trans-1,3-Dichloropropene	ND	ug/L	200	10	0	3/02/16 16:56	10061-02-6	
Surrogates		_						
4-Bromofluorobenzene (S)	93	%	70-130	10	0	3/02/16 16:56	460-00-4	
Dibromofluoromethane (S)	105	%	70-130	10	0	3/02/16 16:56	1868-53-7	
Toluene-d8 (S)	97	%	70-130	10	0	3/02/16 16:56	2037-26-5	



## **ANALYTICAL RESULTS**

Project: City of Rochester-CRC

Pace Project No.: 10339705

Date: 03/03/2016 10:19 AM

Sample: MW-18	Lab ID: 1	0339705013	Collected: 02/23/1	16 18:00	Received:	02/25/16 10:25	Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qua
3260 MSV	Analytical M	lethod: EPA 82	260					
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	5		03/02/16 17:1	8 630-20-6	
1,1,1-Trichloroethane	ND	ug/L	5.0	5		03/02/16 17:1	8 71-55-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	5		03/02/16 17:1	8 79-34-5	
1,1,2-Trichloroethane	ND	ug/L	5.0	5		03/02/16 17:1	8 79-00-5	
1,1,2-Trichlorotrifluoroethane	ND	ug/L	25.0	5		03/02/16 17:1	8 76-13-1	
1,1-Dichloroethane	ND	ug/L	5.0	5		03/02/16 17:1	8 75-34-3	
,1-Dichloroethene	ND	ug/L	5.0	5		03/02/16 17:1	8 75-35-4	
1,1-Dichloropropene	ND	ug/L	5.0	5		03/02/16 17:1	8 563-58-6	
1,2,3-Trichlorobenzene	ND	ug/L	25.0	5		03/02/16 17:1	8 87-61-6	
1,2,3-Trichloropropane	ND	ug/L	5.0	5		03/02/16 17:1	8 96-18-4	
,2,4-Trichlorobenzene	ND	ug/L	25.0	5		03/02/16 17:1	8 120-82-1	
,2,4-Trimethylbenzene	ND	ug/L	5.0	5		03/02/16 17:1		
I,2-Dibromo-3-chloropropane	ND	ug/L	25.0	5		03/02/16 17:1		
I,2-Dibromoethane (EDB)	ND	ug/L	5.0	5		03/02/16 17:1		
,2-Dichlorobenzene	ND	ug/L	5.0	5		03/02/16 17:1		
.2-Dichloroethane	ND	ug/L	5.0	5		03/02/16 17:1		
,2-Dichloropropane	ND	ug/L	5.0	5		03/02/16 17:1		
,3,5-Trimethylbenzene	ND	ug/L	5.0	5		03/02/16 17:1		
,3-Dichlorobenzene	ND	ug/L	5.0	5		03/02/16 17:1		
,3-Dichloropropane	ND ND	ug/L	5.0	5		03/02/16 17:1		
,4-Dichlorobenzene	ND ND	ug/L	5.0	5		03/02/16 17:1		
2,2-Dichloropropane	ND ND	-	5.0	5		03/02/16 17:1		
	ND ND	ug/L	100	5		03/02/16 17:1		
-Butanone (MEK) -Chlorotoluene	ND ND	ug/L	5.0	5 5		03/02/16 17:1		
		ug/L		5				
I-Chlorotoluene	ND	ug/L	5.0	5 5		03/02/16 17:1		
I-Methyl-2-pentanone (MIBK)	ND	ug/L	100	5 5		03/02/16 17:1		
Acetone	ND	ug/L	100			03/02/16 17:1		
Allyl chloride	ND	ug/L	25.0	5		03/02/16 17:1		
Benzene	ND	ug/L	5.0	5		03/02/16 17:1		
Bromobenzene	ND	ug/L	5.0	5		03/02/16 17:1		
Bromochloromethane	ND	ug/L	5.0	5		03/02/16 17:1		
Bromodichloromethane	ND	ug/L	5.0	5		03/02/16 17:1		
Bromoform	ND	ug/L	25.0	5		03/02/16 17:1		
Bromomethane	ND	ug/L	25.0	5		03/02/16 17:1		
Carbon tetrachloride	ND	ug/L	5.0	5		03/02/16 17:1		
Chlorobenzene	ND	ug/L	5.0	5		03/02/16 17:1		
Chloroethane	ND	ug/L	5.0	5		03/02/16 17:1		
Chloroform	ND	ug/L	25.0	5		03/02/16 17:1	8 67-66-3	
Chloromethane	ND	ug/L	5.0	5		03/02/16 17:1	8 74-87-3	
Dibromochloromethane	ND	ug/L	25.0	5		03/02/16 17:1	8 124-48-1	
Dibromomethane	ND	ug/L	5.0	5		03/02/16 17:1	8 74-95-3	
Dichlorodifluoromethane	ND	ug/L	5.0	5		03/02/16 17:1	8 75-71-8	
Dichlorofluoromethane	ND	ug/L	5.0	5		03/02/16 17:1	8 75-43-4	
Diethyl ether (Ethyl ether)	ND	ug/L	25.0	5		03/02/16 17:1	8 60-29-7	
Ethylbenzene	ND	ug/L	5.0	5		03/02/16 17:1	8 100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	25.0	5		03/02/16 17:1	8 87-68-3	
sopropylbenzene (Cumene)	ND	ug/L	5.0	5		03/02/16 17:1		



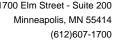


Project: City of Rochester-CRC

Pace Project No.: 10339705

Date: 03/03/2016 10:19 AM

Sample: MW-18	Lab ID: 103	39705013	Collected: 02/23/1	6 18:00	Received: 02	/25/16 10:25 N	Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qua
8260 MSV	Analytical Meth	nod: EPA 82	260					
Methyl-tert-butyl ether	ND	ug/L	5.0	5		03/02/16 17:18	1634-04-4	
Methylene Chloride	ND	ug/L	5.0	5		03/02/16 17:18	75-09-2	
Naphthalene	ND	ug/L	25.0	5		03/02/16 17:18	91-20-3	
Styrene	ND	ug/L	5.0	5		03/02/16 17:18	100-42-5	
Tetrachloroethene	522	ug/L	5.0	5		03/02/16 17:18	127-18-4	
Tetrahydrofuran	ND	ug/L	25.0	5		03/02/16 17:18	109-99-9	
Toluene	ND	ug/L	5.0	5		03/02/16 17:18	108-88-3	
Trichloroethene	ND	ug/L	5.0	5		03/02/16 17:18	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	5		03/02/16 17:18	75-69-4	
Vinyl chloride	ND	ug/L	5.0	5		03/02/16 17:18	75-01-4	
Xylene (Total)	ND	ug/L	15.0	5		03/02/16 17:18	1330-20-7	
cis-1,2-Dichloroethene	ND	ug/L	5.0	5		03/02/16 17:18	156-59-2	
cis-1,3-Dichloropropene	ND	ug/L	25.0	5		03/02/16 17:18	10061-01-5	
n-Butylbenzene	ND	ug/L	5.0	5		03/02/16 17:18	104-51-8	
n-Propylbenzene	ND	ug/L	5.0	5		03/02/16 17:18	103-65-1	
p-Isopropyltoluene	ND	ug/L	5.0	5		03/02/16 17:18	99-87-6	
sec-Butylbenzene	ND	ug/L	25.0	5		03/02/16 17:18	135-98-8	
tert-Butylbenzene	ND	ug/L	5.0	5		03/02/16 17:18	98-06-6	
trans-1,2-Dichloroethene	ND	ug/L	5.0	5		03/02/16 17:18	156-60-5	
trans-1,3-Dichloropropene	ND	ug/L	100	5		03/02/16 17:18	10061-02-6	
Surrogates								
4-Bromofluorobenzene (S)	92	%	70-130	5		03/02/16 17:18	460-00-4	
Dibromofluoromethane (S)	109	%	70-130	5		03/02/16 17:18	1868-53-7	
Toluene-d8 (S)	80	%	70-130	5		03/02/16 17:18	2037-26-5	



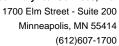


Project: City of Rochester-CRC

Pace Project No.: 10339705

Date: 03/03/2016 10:19 AM

Sample: MW-19	Lab ID: 1	0339705014	Collected: 02/23/1	16 12:50	Received:	02/25/16 10:25	Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qua
3260 MSV	Analytical M	lethod: EPA 82	260					
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		03/02/16 19:3	3 630-20-6	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		03/02/16 19:3	3 71-55-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		03/02/16 19:3	3 79-34-5	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		03/02/16 19:3	3 79-00-5	
1,1,2-Trichlorotrifluoroethane	5.4	ug/L	5.0	1		03/02/16 19:3	3 76-13-1	
I,1-Dichloroethane	ND	ug/L	1.0	1		03/02/16 19:3	3 75-34-3	
,1-Dichloroethene	ND	ug/L	1.0	1		03/02/16 19:3	3 75-35-4	
1,1-Dichloropropene	ND	ug/L	1.0	1		03/02/16 19:3	3 563-58-6	
,2,3-Trichlorobenzene	ND	ug/L	5.0	1		03/02/16 19:3	3 87-61-6	
,2,3-Trichloropropane	ND	ug/L	1.0	1		03/02/16 19:3	3 96-18-4	
,2,4-Trichlorobenzene	ND	ug/L	5.0	1		03/02/16 19:3	3 120-82-1	
,2,4-Trimethylbenzene	ND	ug/L	1.0	1		03/02/16 19:3		
,2-Dibromo-3-chloropropane	ND	ug/L	5.0	1		03/02/16 19:3		
,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		03/02/16 19:3		
,2-Dichlorobenzene	ND	ug/L	1.0	1		03/02/16 19:3		
,2-Dichloroethane	ND	ug/L	1.0	1		03/02/16 19:3		
,2-Dichloropropane	ND	ug/L	1.0	1		03/02/16 19:3		
,3,5-Trimethylbenzene	ND	ug/L	1.0	1		03/02/16 19:3		
,3-Dichlorobenzene	ND	ug/L	1.0	1		03/02/16 19:3		
,3-Dichloropropane	ND	ug/L	1.0	1		03/02/16 19:3		
,4-Dichlorobenzene	ND ND		1.0	1		03/02/16 19:3		
-	ND ND	ug/L	1.0	1		03/02/16 19:3		
2,2-Dichloropropane	ND ND	ug/L	20.0	1		03/02/16 19:3		
-Butanone (MEK)		ug/L						
-Chlorotoluene	ND	ug/L	1.0	1		03/02/16 19:3:		
-Chlorotoluene	ND	ug/L	1.0	1		03/02/16 19:3		
I-Methyl-2-pentanone (MIBK)	ND	ug/L	20.0	1		03/02/16 19:3		
Acetone	ND	ug/L	20.0	1		03/02/16 19:3		
allyl chloride	ND	ug/L	5.0	1		03/02/16 19:3:		
Benzene	ND	ug/L	1.0	1		03/02/16 19:3		
romobenzene	ND	ug/L	1.0	1		03/02/16 19:3		
Bromochloromethane	ND	ug/L	1.0	1		03/02/16 19:3		
Bromodichloromethane	ND	ug/L	1.0	1		03/02/16 19:3		
romoform	ND	ug/L	5.0	1		03/02/16 19:3		
romomethane	ND	ug/L	5.0	1		03/02/16 19:3		
Carbon tetrachloride	ND	ug/L	1.0	1		03/02/16 19:3		
Chlorobenzene	ND	ug/L	1.0	1		03/02/16 19:3		
Chloroethane	ND	ug/L	1.0	1		03/02/16 19:3		
Chloroform	ND	ug/L	5.0	1		03/02/16 19:3	3 67-66-3	
Chloromethane	ND	ug/L	1.0	1		03/02/16 19:3	3 74-87-3	
Dibromochloromethane	ND	ug/L	5.0	1		03/02/16 19:3	3 124-48-1	
Dibromomethane	ND	ug/L	1.0	1		03/02/16 19:3	3 74-95-3	
Dichlorodifluoromethane	ND	ug/L	1.0	1		03/02/16 19:3	3 75-71-8	
ichlorofluoromethane	ND	ug/L	1.0	1		03/02/16 19:3	3 75-43-4	
Diethyl ether (Ethyl ether)	ND	ug/L	5.0	1		03/02/16 19:3	3 60-29-7	
thylbenzene	ND	ug/L	1.0	1		03/02/16 19:3		
lexachloro-1,3-butadiene	ND	ug/L	5.0	1		03/02/16 19:3	3 87-68-3	
sopropylbenzene (Cumene)	ND	ug/L	1.0	1		03/02/16 19:3		





Project: City of Rochester-CRC

Pace Project No.: 10339705

Date: 03/03/2016 10:19 AM

Sample: MW-19	Lab ID: 103	39705014	Collected: 02/23/1	6 12:50	Received: 02	2/25/16 10:25 N	Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qua
8260 MSV	Analytical Meth	od: EPA 82	260					
Methyl-tert-butyl ether	ND	ug/L	1.0	1		03/02/16 19:33	1634-04-4	
Methylene Chloride	ND	ug/L	1.0	1		03/02/16 19:33	75-09-2	
Naphthalene	ND	ug/L	5.0	1		03/02/16 19:33	91-20-3	
Styrene	ND	ug/L	1.0	1		03/02/16 19:33	100-42-5	
Tetrachloroethene	35.4	ug/L	1.0	1		03/02/16 19:33	127-18-4	
Tetrahydrofuran	ND	ug/L	5.0	1		03/02/16 19:33	109-99-9	
Toluene	ND	ug/L	1.0	1		03/02/16 19:33	108-88-3	
Trichloroethene	ND	ug/L	1.0	1		03/02/16 19:33	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		03/02/16 19:33	75-69-4	
Vinyl chloride	ND	ug/L	1.0	1		03/02/16 19:33	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		03/02/16 19:33	1330-20-7	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		03/02/16 19:33	156-59-2	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		03/02/16 19:33	10061-01-5	
n-Butylbenzene	ND	ug/L	1.0	1		03/02/16 19:33	104-51-8	
n-Propylbenzene	ND	ug/L	1.0	1		03/02/16 19:33	103-65-1	
p-Isopropyltoluene	ND	ug/L	1.0	1		03/02/16 19:33	99-87-6	
sec-Butylbenzene	ND	ug/L	5.0	1		03/02/16 19:33	135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	1		03/02/16 19:33	98-06-6	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		03/02/16 19:33	156-60-5	
trans-1,3-Dichloropropene	ND	ug/L	20.0	1		03/02/16 19:33	10061-02-6	
<b>Surrogates</b> 4-Bromofluorobenzene (S)	89	%	70-130	1		03/02/16 19:33	460-00-4	
Dibromofluoromethane (S)	105	%	70-130	1		03/02/16 19:33		
Toluene-d8 (S)	97	%	70-130	1		03/02/16 19:33		



## **ANALYTICAL RESULTS**

Project: City of Rochester-CRC

Pace Project No.: 10339705

Date: 03/03/2016 10:19 AM

Sample: MW-20	Lab ID: 103	39705015	Collected: 02/23/1	6 15:20	Received:	02/25/16 10:25	Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qua
8260 MSV	Analytical Met	hod: EPA 82	260					
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		03/02/16 20:1	8 630-20-6	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		03/02/16 20:1	8 71-55-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		03/02/16 20:1	8 79-34-5	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		03/02/16 20:1	8 79-00-5	
1,1,2-Trichlorotrifluoroethane	ND	ug/L	5.0	1		03/02/16 20:1	8 76-13-1	
1,1-Dichloroethane	ND	ug/L	1.0	1		03/02/16 20:1	8 75-34-3	
1,1-Dichloroethene	ND	ug/L	1.0	1		03/02/16 20:1	8 75-35-4	
1,1-Dichloropropene	ND	ug/L	1.0	1		03/02/16 20:1	8 563-58-6	
1,2,3-Trichlorobenzene	ND	ug/L	5.0	1		03/02/16 20:1	8 87-61-6	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		03/02/16 20:1	8 96-18-4	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		03/02/16 20:1		
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1		03/02/16 20:1		
I,2-Dibromo-3-chloropropane	ND	ug/L	5.0	1		03/02/16 20:1		
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		03/02/16 20:1		
1,2-Dichlorobenzene	ND	ug/L	1.0	1		03/02/16 20:1		
I.2-Dichloroethane	ND	ug/L	1.0	1		03/02/16 20:1		
,2-Dichloropropane	ND ND	ug/L ug/L	1.0	1		03/02/16 20:1		
,3,5-Trimethylbenzene	ND ND	ug/L ug/L	1.0	1		03/02/16 20:1		
· · · · · · · · · · · · · · · · · · ·	ND ND		1.0	1		03/02/16 20:1		
,3-Dichlorobenzene		ug/L		1				
,3-Dichloropropane	ND	ug/L	1.0			03/02/16 20:1		
,4-Dichlorobenzene	ND	ug/L	1.0	1 1		03/02/16 20:1		
2,2-Dichloropropane	ND	ug/L	1.0			03/02/16 20:1		
2-Butanone (MEK)	ND	ug/L	20.0	1		03/02/16 20:1		
2-Chlorotoluene	ND	ug/L	1.0	1		03/02/16 20:1		
1-Chlorotoluene	ND	ug/L	1.0	1		03/02/16 20:1		
4-Methyl-2-pentanone (MIBK)	ND	ug/L	20.0	1		03/02/16 20:1		
Acetone	ND	ug/L	20.0	1		03/02/16 20:1		
Allyl chloride	ND	ug/L	5.0	1		03/02/16 20:1		
Benzene	ND	ug/L	1.0	1		03/02/16 20:1		
Bromobenzene	ND	ug/L	1.0	1		03/02/16 20:1		
Bromochloromethane	ND	ug/L	1.0	1		03/02/16 20:1		
Bromodichloromethane	ND	ug/L	1.0	1		03/02/16 20:1	8 75-27-4	
Bromoform	ND	ug/L	5.0	1		03/02/16 20:1	8 75-25-2	
Bromomethane	ND	ug/L	5.0	1		03/02/16 20:1	8 74-83-9	
Carbon tetrachloride	ND	ug/L	1.0	1		03/02/16 20:1	8 56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		03/02/16 20:1	8 108-90-7	
Chloroethane	ND	ug/L	1.0	1		03/02/16 20:1	8 75-00-3	
Chloroform	ND	ug/L	5.0	1		03/02/16 20:1	8 67-66-3	
Chloromethane	ND	ug/L	1.0	1		03/02/16 20:1	8 74-87-3	
Dibromochloromethane	ND	ug/L	5.0	1		03/02/16 20:1	8 124-48-1	
Dibromomethane	ND	ug/L	1.0	1		03/02/16 20:1	8 74-95-3	
Dichlorodifluoromethane	ND	ug/L	1.0	1		03/02/16 20:1	8 75-71-8	
Dichlorofluoromethane	ND	ug/L	1.0	1		03/02/16 20:1		
Diethyl ether (Ethyl ether)	ND	ug/L	5.0	1		03/02/16 20:1		
Ethylbenzene	ND	ug/L	1.0	1		03/02/16 20:1		
Hexachloro-1,3-butadiene	ND	ug/L	5.0	1		03/02/16 20:1		
sopropylbenzene (Cumene)	ND	ug/L	1.0	1		03/02/16 20:1		

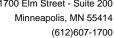


Project: City of Rochester-CRC

Pace Project No.: 10339705

Date: 03/03/2016 10:19 AM

Sample: MW-20	Lab ID: 103	39705015	Collected: 02/23/1	6 15:20	Received: 02	2/25/16 10:25 N	Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qua
8260 MSV	Analytical Meth	nod: EPA 82	260					
Methyl-tert-butyl ether	ND	ug/L	1.0	1		03/02/16 20:18	1634-04-4	
Methylene Chloride	ND	ug/L	1.0	1		03/02/16 20:18	75-09-2	
Naphthalene	ND	ug/L	5.0	1		03/02/16 20:18	91-20-3	
Styrene	ND	ug/L	1.0	1		03/02/16 20:18	100-42-5	
Tetrachloroethene	62.0	ug/L	1.0	1		03/02/16 20:18	127-18-4	
Tetrahydrofuran	ND	ug/L	5.0	1		03/02/16 20:18	109-99-9	
Toluene	ND	ug/L	1.0	1		03/02/16 20:18	108-88-3	
Trichloroethene	ND	ug/L	1.0	1		03/02/16 20:18	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		03/02/16 20:18	75-69-4	
Vinyl chloride	ND	ug/L	1.0	1		03/02/16 20:18	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		03/02/16 20:18	1330-20-7	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		03/02/16 20:18	156-59-2	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		03/02/16 20:18	10061-01-5	
n-Butylbenzene	ND	ug/L	1.0	1		03/02/16 20:18	104-51-8	
n-Propylbenzene	ND	ug/L	1.0	1		03/02/16 20:18	103-65-1	
p-Isopropyltoluene	ND	ug/L	1.0	1		03/02/16 20:18	99-87-6	
sec-Butylbenzene	ND	ug/L	5.0	1		03/02/16 20:18	135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	1		03/02/16 20:18	98-06-6	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		03/02/16 20:18	156-60-5	
trans-1,3-Dichloropropene	ND	ug/L	20.0	1		03/02/16 20:18	10061-02-6	
Surrogates	00	0/	70.400	4		00/00/40 00 40	400 00 4	
4-Bromofluorobenzene (S)	92	%	70-130	1		03/02/16 20:18		
Dibromofluoromethane (S)	113	%	70-130	1		03/02/16 20:18		
Toluene-d8 (S)	92	%	70-130	1		03/02/16 20:18	2037-26-5	





Project: City of Rochester-CRC

Pace Project No.: 10339705

Date: 03/03/2016 10:19 AM

Sample: AS-Influent	Lab ID: 10	339705016	Collected: 02/24/1	16 18:05	Received:	02/25/16 10:25	Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qua
624 MSV	Analytical Me	thod: EPA 62	24					
Acetone	112	ug/L	20.0	1		03/01/16 05:38	3 67-64-1	
Allyl chloride	ND	ug/L	4.0	1		03/01/16 05:38	3 107-05-1	
Benzene	ND	ug/L	1.0	1		03/01/16 05:38	3 71-43-2	
Bromobenzene	ND	ug/L	1.0	1		03/01/16 05:38	3 108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		03/01/16 05:38	3 74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		03/01/16 05:38	3 75-27-4	
Bromoform	ND	ug/L	4.0	1		03/01/16 05:38	3 75-25-2	
Bromomethane	ND	ug/L	4.0	1		03/01/16 05:38	3 74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	1		03/01/16 05:38	3 78-93-3	
n-Butylbenzene	ND	ug/L	1.0	1		03/01/16 05:38	3 104-51-8	
sec-Butylbenzene	ND	ug/L	1.0	1		03/01/16 05:38	3 135-98-8	
ert-Butylbenzene	ND	ug/L	1.0	1		03/01/16 05:38	3 98-06-6	
Carbon tetrachloride	ND	ug/L	1.0	1		03/01/16 05:38	3 56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		03/01/16 05:38		
Chloroethane	ND	ug/L	1.0	1		03/01/16 05:38		
2-Chloroethylvinyl ether	ND	ug/L	10.0	1		03/01/16 05:38		L3,c2
Chloroform	ND	ug/L	1.0	1		03/01/16 05:38		20,02
Chloromethane	ND	ug/L	4.0	1		03/01/16 05:38		
2-Chlorotoluene	ND	ug/L	1.0	1		03/01/16 05:38		
4-Chlorotoluene	ND	ug/L	1.0	1		03/01/16 05:38		
1,2-Dibromo-3-chloropropane	ND	ug/L	4.0	1		03/01/16 05:38		
Dibromochloromethane	ND ND	ug/L	1.0	1		03/01/16 05:38		
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		03/01/16 05:38		
Dibromomethane	ND	ug/L	4.0	1		03/01/16 05:38		
1,2-Dichlorobenzene	ND ND	ug/L	1.0	1		03/01/16 05:38		
1,3-Dichlorobenzene	ND ND	ug/L	1.0	1		03/01/16 05:38		
1,4-Dichlorobenzene	ND ND	-	1.0	1		03/01/16 05:38		
Dichlorodifluoromethane	ND ND	ug/L	1.0	1		03/01/16 05:38		
1,1-Dichloroethane	ND ND	ug/L	1.0	1		03/01/16 05:38		
1,1-Dichloroethane		ug/L		1				
,	ND	ug/L	1.0			03/01/16 05:38 03/01/16 05:38		
1,1-Dichloroethene	ND	ug/L	1.0	1 1		03/01/16 05:38		
cis-1,2-Dichloroethene	ND	ug/L	1.0	1				
rans-1,2-Dichloroethene	ND	ug/L	1.0			03/01/16 05:38		
Dichlorofluoromethane	ND	ug/L	1.0	1		03/01/16 05:38		
1,2-Dichloropropane	ND	ug/L	4.0	1		03/01/16 05:38		
1,3-Dichloropropane	ND	ug/L	1.0	1		03/01/16 05:38		
2,2-Dichloropropane	ND	ug/L	4.0	1		03/01/16 05:38		
1,1-Dichloropropene	ND	ug/L	1.0	1		03/01/16 05:38		
cis-1,3-Dichloropropene	ND	ug/L	4.0	1		03/01/16 05:38		
rans-1,3-Dichloropropene	ND	ug/L	4.0	1		03/01/16 05:38		
Diethyl ether (Ethyl ether)	ND	ug/L	4.0	1		03/01/16 05:38		
Ethylbenzene	ND	ug/L	1.0	1		03/01/16 05:38		
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		03/01/16 05:38		
sopropylbenzene (Cumene)	ND	ug/L	1.0	1		03/01/16 05:38		
o-Isopropyltoluene	ND	ug/L	1.0	1		03/01/16 05:38	3 99-87-6	
Methylene Chloride	ND	ug/L	4.0	1		03/01/16 05:38	3 75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		03/01/16 05:38	3 108-10-1	



Project: City of Rochester-CRC

Pace Project No.: 10339705

Date: 03/03/2016 10:19 AM

Sample: AS-Influent	Lab ID: 103	39705016	Collected: 02/24/1	16 18:05	Received: 02/2	25/16 10:25 N	Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qua
624 MSV	Analytical Meth	nod: EPA 62	24					
Methyl-tert-butyl ether	ND	ug/L	1.0	1	(	03/01/16 05:38	1634-04-4	
Naphthalene	ND	ug/L	4.0	1	(	03/01/16 05:38	91-20-3	
n-Propylbenzene	ND	ug/L	1.0	1	(	03/01/16 05:38	103-65-1	
Styrene	ND	ug/L	1.0	1	(	03/01/16 05:38	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1	(	03/01/16 05:38	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1	(	03/01/16 05:38	79-34-5	
Tetrachloroethene	31.5	ug/L	1.0	1	(	03/01/16 05:38	127-18-4	
Tetrahydrofuran	ND	ug/L	10.0	1	(	03/01/16 05:38	109-99-9	
Toluene	ND	ug/L	1.0	1	(	03/01/16 05:38	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1	(	03/01/16 05:38	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1	(	03/01/16 05:38	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1	(	03/01/16 05:38	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1	(	03/01/16 05:38	79-00-5	
Trichloroethene	ND	ug/L	0.40	1	(	03/01/16 05:38	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1	(	03/01/16 05:38	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	4.0	1	(	03/01/16 05:38	96-18-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/L	1.0	1	(	03/01/16 05:38	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1	(	03/01/16 05:38	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1	(	03/01/16 05:38	108-67-8	
Vinyl chloride	ND	ug/L	0.40	1	(	03/01/16 05:38	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1	(	03/01/16 05:38	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1	(	03/01/16 05:38	179601-23-1	
o-Xylene	ND	ug/L	1.0	1	(	03/01/16 05:38	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	105	%.	75-125	1		03/01/16 05:38		
Toluene-d8 (S)	91	%.	75-125	1		03/01/16 05:38		
4-Bromofluorobenzene (S)	97	%.	75-125	1	(	03/01/16 05:38	460-00-4	



## **ANALYTICAL RESULTS**

Project: City of Rochester-CRC

Pace Project No.: 10339705

Date: 03/03/2016 10:19 AM

Sample: AS-Effluent	Lab ID: 103	39705017	Collected: 02/24/1	6 18:15	Received:	02/25/16 10:25	Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qua
624 MSV	Analytical Met	hod: EPA 62	24					
Acetone	342	ug/L	20.0	1		03/01/16 06:0	1 67-64-1	
Allyl chloride	ND	ug/L	4.0	1		03/01/16 06:0	1 107-05-1	
Benzene	ND	ug/L	1.0	1		03/01/16 06:0	1 71-43-2	
Bromobenzene	ND	ug/L	1.0	1		03/01/16 06:0	1 108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		03/01/16 06:0	1 74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		03/01/16 06:0	1 75-27-4	
Bromoform	ND	ug/L	4.0	1		03/01/16 06:0	1 75-25-2	
Bromomethane	ND	ug/L	4.0	1		03/01/16 06:0	1 74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	1		03/01/16 06:0	1 78-93-3	
n-Butylbenzene	ND	ug/L	1.0	1		03/01/16 06:0		
sec-Butylbenzene	ND	ug/L	1.0	1		03/01/16 06:0	1 135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	1		03/01/16 06:0		
Carbon tetrachloride	ND	ug/L	1.0	1		03/01/16 06:0		
Chlorobenzene	ND	ug/L	1.0	1		03/01/16 06:0		
Chloroethane	ND	ug/L	1.0	1		03/01/16 06:0		
2-Chloroethylvinyl ether	ND	ug/L	10.0	1		03/01/16 06:0		L3,c2
Chloroform	ND ND	ug/L	1.0	1		03/01/16 06:0		LO,02
Chloromethane	ND	ug/L	4.0	1		03/01/16 06:0		
2-Chlorotoluene	ND ND		1.0	1		03/01/16 06:0		
		ug/L		1				
1-Chlorotoluene	ND	ug/L	1.0	1		03/01/16 06:0		
1,2-Dibromo-3-chloropropane	ND	ug/L	4.0			03/01/16 06:0		
Dibromochloromethane	ND	ug/L	1.0	1		03/01/16 06:0		
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		03/01/16 06:0		
Dibromomethane	ND	ug/L	4.0	1		03/01/16 06:0		
1,2-Dichlorobenzene	ND	ug/L	1.0	1		03/01/16 06:0		
1,3-Dichlorobenzene	ND	ug/L	1.0	1		03/01/16 06:0		
1,4-Dichlorobenzene	ND	ug/L	1.0	1		03/01/16 06:0		
Dichlorodifluoromethane	ND	ug/L	1.0	1		03/01/16 06:0		
1,1-Dichloroethane	ND	ug/L	1.0	1		03/01/16 06:0		
1,2-Dichloroethane	ND	ug/L	1.0	1		03/01/16 06:0		
1,1-Dichloroethene	ND	ug/L	1.0	1		03/01/16 06:0		
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		03/01/16 06:0		
rans-1,2-Dichloroethene	ND	ug/L	1.0	1		03/01/16 06:0	1 156-60-5	
Dichlorofluoromethane	ND	ug/L	1.0	1		03/01/16 06:0	1 75-43-4	
1,2-Dichloropropane	ND	ug/L	4.0	1		03/01/16 06:0	1 78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		03/01/16 06:0	1 142-28-9	
2,2-Dichloropropane	ND	ug/L	4.0	1		03/01/16 06:0	1 594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		03/01/16 06:0	1 563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	4.0	1		03/01/16 06:0	1 10061-01-5	
rans-1,3-Dichloropropene	ND	ug/L	4.0	1		03/01/16 06:0	1 10061-02-6	
Diethyl ether (Ethyl ether)	ND	ug/L	4.0	1		03/01/16 06:0	1 60-29-7	
Ethylbenzene	ND	ug/L	1.0	1		03/01/16 06:0	1 100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		03/01/16 06:0		
sopropylbenzene (Cumene)	ND	ug/L	1.0	1		03/01/16 06:0		
o-Isopropyltoluene	ND	ug/L	1.0	1		03/01/16 06:0		
Methylene Chloride	ND	ug/L	4.0	1		03/01/16 06:0		
4-Methyl-2-pentanone (MIBK)	ND ND	ug/L ug/L	5.0	1		03/01/16 06:0		

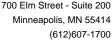


Project: City of Rochester-CRC

Pace Project No.: 10339705

Date: 03/03/2016 10:19 AM

Sample: AS-Effluent	Lab ID: 103	39705017	Collected: 02/24/1	16 18:15	Received: 02/25/16 10:25	Matrix: Water
Parameters	Results	Units	Report Limit	DF	Prepared Analyzed	CAS No. Qu
624 MSV	Analytical Meth	nod: EPA 62	24			
Methyl-tert-butyl ether	ND	ug/L	1.0	1	03/01/16 06:0	)1 1634-04-4
Naphthalene	ND	ug/L	4.0	1	03/01/16 06:0	01 91-20-3
n-Propylbenzene	ND	ug/L	1.0	1	03/01/16 06:0	)1 103-65-1
Styrene	ND	ug/L	1.0	1	03/01/16 06:0	01 100-42-5
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1	03/01/16 06:0	01 630-20-6
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1	03/01/16 06:0	)1 79-34-5
Tetrachloroethene	1.8	ug/L	1.0	1	03/01/16 06:0	)1 127-18-4
Tetrahydrofuran	ND	ug/L	10.0	1	03/01/16 06:0	)1 109-99-9
Toluene	ND	ug/L	1.0	1	03/01/16 06:0	01 108-88-3
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1	03/01/16 06:0	01 87-61-6
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1	03/01/16 06:0	)1 120-82-1
1,1,1-Trichloroethane	ND	ug/L	1.0	1	03/01/16 06:0	)1 71-55-6
1,1,2-Trichloroethane	ND	ug/L	1.0	1	03/01/16 06:0	)1 79-00-5
Trichloroethene	ND	ug/L	0.40	1	03/01/16 06:0	01 79-01-6
Trichlorofluoromethane	ND	ug/L	1.0	1	03/01/16 06:0	01 75-69-4
1,2,3-Trichloropropane	ND	ug/L	4.0	1	03/01/16 06:0	01 96-18-4
1,1,2-Trichlorotrifluoroethane	ND	ug/L	1.0	1	03/01/16 06:0	)1 76-13-1
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1	03/01/16 06:0	01 95-63-6
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1	03/01/16 06:0	01 108-67-8
Vinyl chloride	ND	ug/L	0.40	1	03/01/16 06:0	01 75-01-4
Xylene (Total)	ND	ug/L	3.0	1	03/01/16 06:0	01 1330-20-7
m&p-Xylene	ND	ug/L	2.0	1	03/01/16 06:0	01 179601-23-1
o-Xylene	ND	ug/L	1.0	1	03/01/16 06:0	01 95-47-6
Surrogates		-				
1,2-Dichloroethane-d4 (S)	104	%.	75-125	1	03/01/16 06:0	01 17060-07-0
Toluene-d8 (S)	91	%.	75-125	1	03/01/16 06:0	01 2037-26-5
4-Bromofluorobenzene (S)	100	%.	75-125	1	03/01/16 06:0	01 460-00-4





Project: City of Rochester-CRC

Pace Project No.: 10339705

Date: 03/03/2016 10:19 AM

Sample: TRIP BLANK	Lab ID: 1	10339705018	Collected: 02/23/1	16 00:00	Received:	02/25/16 10:25	Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qua
8260 MSV	Analytical N	/lethod: EPA 82	260					
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		03/02/16 13:09	9 630-20-6	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		03/02/16 13:09	71-55-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		03/02/16 13:09	9 79-34-5	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		03/02/16 13:09	9 79-00-5	
1,1,2-Trichlorotrifluoroethane	ND	ug/L	5.0	1		03/02/16 13:09	76-13-1	
1,1-Dichloroethane	ND	ug/L	1.0	1		03/02/16 13:09	75-34-3	
1,1-Dichloroethene	ND	ug/L	1.0	1		03/02/16 13:09	75-35-4	
1,1-Dichloropropene	ND	ug/L	1.0	1		03/02/16 13:09	9 563-58-6	
1,2,3-Trichlorobenzene	ND	ug/L	5.0	1		03/02/16 13:09	9 87-61-6	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		03/02/16 13:09	96-18-4	
1,2,4-Trichlorobenzene	ND		5.0	1		03/02/16 13:09	9 120-82-1	
I,2,4-Trimethylbenzene	ND	•	1.0	1		03/02/16 13:09	9 95-63-6	
1,2-Dibromo-3-chloropropane	ND	•	5.0	1		03/02/16 13:09	96-12-8	
,2-Dibromoethane (EDB)	ND	Ū	1.0	1		03/02/16 13:09		
,2-Dichlorobenzene	ND	J	1.0	1		03/02/16 13:09		
,2-Dichloroethane	ND	0	1.0	1		03/02/16 13:09		
,2-Dichloropropane	ND	J	1.0	1		03/02/16 13:09		
,3,5-Trimethylbenzene	ND	Ū	1.0	1		03/02/16 13:09		
,3-Dichlorobenzene	ND	Ū	1.0	1		03/02/16 13:09		
,3-Dichloropropane	ND	J	1.0	1		03/02/16 13:09		
,4-Dichlorobenzene	ND	0	1.0	1		03/02/16 13:09		
,4-Dichloropropane	ND ND	J	1.0	1		03/02/16 13:09		
P-Butanone (MEK)	ND ND	Ū	20.0	1		03/02/16 13:09		
2-Chlorotoluene	ND ND	Ū	1.0	1		03/02/16 13:09		
-Chlorotoluene	ND ND	J	1.0	1		03/02/16 13:09		
	ND ND	0	20.0	1		03/02/16 13:09		
I-Methyl-2-pentanone (MIBK) Acetone	ND ND	0	20.0	1		03/02/16 13:09		
	ND ND	0	5.0	1		03/02/16 13:09		
Allyl chloride		J		1				
Benzene	ND	J	1.0			03/02/16 13:09		
Bromobenzene	ND	0	1.0	1		03/02/16 13:09		
Bromochloromethane	ND	0	1.0	1		03/02/16 13:09		
Bromodichloromethane	ND	J	1.0	1		03/02/16 13:09		
Bromoform	ND	J	5.0	1		03/02/16 13:09		
Bromomethane	ND	J	5.0	1		03/02/16 13:09		
Carbon tetrachloride	ND	0	1.0	1		03/02/16 13:09		
Chlorobenzene	ND	Ū	1.0	1		03/02/16 13:09		
Chloroethane	ND	J	1.0	1		03/02/16 13:09		
Chloroform	ND	J	5.0	1		03/02/16 13:09		
Chloromethane	ND	J	1.0	1		03/02/16 13:09		
Dibromochloromethane	ND	0	5.0	1		03/02/16 13:09		
Dibromomethane	ND	0	1.0	1		03/02/16 13:09		
Dichlorodifluoromethane	ND	0	1.0	1		03/02/16 13:09		
Dichlorofluoromethane	ND	J	1.0	1		03/02/16 13:09		
Diethyl ether (Ethyl ether)	ND	ug/L	5.0	1		03/02/16 13:09	9 60-29-7	
Ethylbenzene	ND	ug/L	1.0	1		03/02/16 13:09	9 100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	5.0	1		03/02/16 13:09	9 87-68-3	
sopropylbenzene (Cumene)	ND	ug/L	1.0	1		03/02/16 13:09	9 98-82-8	



Project: City of Rochester-CRC

Pace Project No.: 10339705

Date: 03/03/2016 10:19 AM

Sample: TRIP BLANK	Lab ID: 103	39705018	Collected: 02/23/1	16 00:00	Received: 02	2/25/16 10:25 N	Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qua
8260 MSV	Analytical Meth	od: EPA 82	60					
Methyl-tert-butyl ether	ND	ug/L	1.0	1		03/02/16 13:09	1634-04-4	
Methylene Chloride	ND	ug/L	1.0	1		03/02/16 13:09	75-09-2	
Naphthalene	ND	ug/L	5.0	1		03/02/16 13:09	91-20-3	
Styrene	ND	ug/L	1.0	1		03/02/16 13:09	100-42-5	
Tetrachloroethene	ND	ug/L	1.0	1		03/02/16 13:09	127-18-4	
Tetrahydrofuran	ND	ug/L	5.0	1		03/02/16 13:09	109-99-9	
Toluene	ND	ug/L	1.0	1		03/02/16 13:09	108-88-3	
Trichloroethene	ND	ug/L	1.0	1		03/02/16 13:09	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		03/02/16 13:09	75-69-4	
Vinyl chloride	ND	ug/L	1.0	1		03/02/16 13:09	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		03/02/16 13:09	1330-20-7	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		03/02/16 13:09	156-59-2	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		03/02/16 13:09	10061-01-5	
n-Butylbenzene	ND	ug/L	1.0	1		03/02/16 13:09	104-51-8	
n-Propylbenzene	ND	ug/L	1.0	1		03/02/16 13:09	103-65-1	
p-Isopropyltoluene	ND	ug/L	1.0	1		03/02/16 13:09	99-87-6	
sec-Butylbenzene	ND	ug/L	5.0	1		03/02/16 13:09	135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	1		03/02/16 13:09	98-06-6	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		03/02/16 13:09	156-60-5	
trans-1,3-Dichloropropene	ND	ug/L	20.0	1		03/02/16 13:09	10061-02-6	
<b>Surrogates</b> 4-Bromofluorobenzene (S)	90	%	70-130	1		03/02/16 13:09	460-00-4	
Dibromofluoromethane (S)	106	%	70-130	1		03/02/16 13:09		
Toluene-d8 (S)	97	%	70-130	1		03/02/16 13:09		



#### **QUALITY CONTROL DATA**

Project: City of Rochester-CRC

Pace Project No.: 10339705

Date: 03/03/2016 10:19 AM

QC Batch: MSV/34759 Analysis Method: EPA 624
QC Batch Method: EPA 624 Analysis Description: 624 MSV

Associated Lab Samples: 10339705016, 10339705017

METHOD BLANK: 2200826 Matrix: Water

Associated Lab Samples: 10339705016, 10339705017

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	1.0	02/29/16 23:20	
1,1,1-Trichloroethane	ug/L	ND	1.0	02/29/16 23:20	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	02/29/16 23:20	
1,1,2-Trichloroethane	ug/L	ND	1.0	02/29/16 23:20	
1,1,2-Trichlorotrifluoroethane	ug/L	ND	1.0	02/29/16 23:20	
1,1-Dichloroethane	ug/L	ND	1.0	02/29/16 23:20	
1,1-Dichloroethene	ug/L	ND	1.0	02/29/16 23:20	
1,1-Dichloropropene	ug/L	ND	1.0	02/29/16 23:20	
1,2,3-Trichlorobenzene	ug/L	ND	1.0	02/29/16 23:20	
1,2,3-Trichloropropane	ug/L	ND	4.0	02/29/16 23:20	
1,2,4-Trichlorobenzene	ug/L	ND	1.0	02/29/16 23:20	
1,2,4-Trimethylbenzene	ug/L	ND	1.0	02/29/16 23:20	
1,2-Dibromo-3-chloropropane	ug/L	ND	4.0	02/29/16 23:20	
1,2-Dibromoethane (EDB)	ug/L	ND	1.0	02/29/16 23:20	
1,2-Dichlorobenzene	ug/L	ND	1.0	02/29/16 23:20	
1,2-Dichloroethane	ug/L	ND	1.0	02/29/16 23:20	
1,2-Dichloropropane	ug/L	ND	4.0	02/29/16 23:20	
1,3,5-Trimethylbenzene	ug/L	ND	1.0	02/29/16 23:20	
1,3-Dichlorobenzene	ug/L	ND	1.0	02/29/16 23:20	
1,3-Dichloropropane	ug/L	ND	1.0	02/29/16 23:20	
1,4-Dichlorobenzene	ug/L	ND	1.0	02/29/16 23:20	
2,2-Dichloropropane	ug/L	ND	4.0	02/29/16 23:20	
2-Butanone (MEK)	ug/L	ND	5.0	02/29/16 23:20	
2-Chloroethylvinyl ether	ug/L	ND	10.0	02/29/16 23:20	
2-Chlorotoluene	ug/L	ND	1.0	02/29/16 23:20	
4-Chlorotoluene	ug/L	ND	1.0	02/29/16 23:20	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	5.0	02/29/16 23:20	
Acetone	ug/L	ND	20.0	02/29/16 23:20	
Allyl chloride	ug/L	ND	4.0	02/29/16 23:20	
Benzene	ug/L	ND	1.0	02/29/16 23:20	
Bromobenzene	ug/L	ND	1.0	02/29/16 23:20	
Bromochloromethane	ug/L	ND	1.0	02/29/16 23:20	
Bromodichloromethane	ug/L	ND	1.0	02/29/16 23:20	
Bromoform	ug/L	ND	4.0	02/29/16 23:20	
Bromomethane	ug/L	ND	4.0	02/29/16 23:20	
Carbon tetrachloride	ug/L	ND	1.0	02/29/16 23:20	
Chlorobenzene	ug/L	ND	1.0	02/29/16 23:20	
Chloroethane	ug/L	ND	1.0	02/29/16 23:20	
Chloroform	ug/L	ND	1.0	02/29/16 23:20	
Chloromethane	ug/L	ND	4.0	02/29/16 23:20	
cis-1,2-Dichloroethene	ug/L	ND	1.0	02/29/16 23:20	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

## **REPORT OF LABORATORY ANALYSIS**

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## **QUALITY CONTROL DATA**

Project: City of Rochester-CRC

Pace Project No.: 10339705

Date: 03/03/2016 10:19 AM

METHOD BLANK: 2200826 Matrix: Water

Associated Lab Samples: 10339705016, 10339705017

Doromotor	Units	Blank Result	Reporting Limit	Anglygod	Qualifiers
Parameter	- Units			Analyzed	Qualifiers
cis-1,3-Dichloropropene	ug/L	ND	4.0	02/29/16 23:20	
Dibromochloromethane	ug/L	ND	1.0	02/29/16 23:20	
Dibromomethane	ug/L	ND	4.0	02/29/16 23:20	
Dichlorodifluoromethane	ug/L	ND	1.0	02/29/16 23:20	
Dichlorofluoromethane	ug/L	ND	1.0	02/29/16 23:20	
Diethyl ether (Ethyl ether)	ug/L	ND	4.0	02/29/16 23:20	
Ethylbenzene	ug/L	ND	1.0	02/29/16 23:20	
Hexachloro-1,3-butadiene	ug/L	ND	2.0	02/29/16 23:20	
sopropylbenzene (Cumene)	ug/L	ND	1.0	02/29/16 23:20	
n&p-Xylene	ug/L	ND	2.0	02/29/16 23:20	
Methyl-tert-butyl ether	ug/L	ND	1.0	02/29/16 23:20	
Nethylene Chloride	ug/L	ND	4.0	02/29/16 23:20	
-Butylbenzene	ug/L	ND	1.0	02/29/16 23:20	
-Propylbenzene	ug/L	ND	1.0	02/29/16 23:20	
aphthalene	ug/L	ND	4.0	02/29/16 23:20	
-Xylene	ug/L	ND	1.0	02/29/16 23:20	
-Isopropyltoluene	ug/L	ND	1.0	02/29/16 23:20	
ec-Butylbenzene	ug/L	ND	1.0	02/29/16 23:20	
tyrene	ug/L	ND	1.0	02/29/16 23:20	
ert-Butylbenzene	ug/L	ND	1.0	02/29/16 23:20	
etrachloroethene	ug/L	ND	1.0	02/29/16 23:20	
etrahydrofuran	ug/L	ND	10.0	02/29/16 23:20	
oluene	ug/L	ND	1.0	02/29/16 23:20	
ans-1,2-Dichloroethene	ug/L	ND	1.0	02/29/16 23:20	
ans-1,3-Dichloropropene	ug/L	ND	4.0	02/29/16 23:20	
richloroethene	ug/L	ND	0.40	02/29/16 23:20	
richlorofluoromethane	ug/L	ND	1.0	02/29/16 23:20	
inyl chloride	ug/L	ND	0.40	02/29/16 23:20	
ylene (Total)	ug/L	ND	3.0	02/29/16 23:20	
,2-Dichloroethane-d4 (S)	%.	109	75-125	02/29/16 23:20	
-Bromofluorobenzene (S)	%.	96	75-125	02/29/16 23:20	
oluene-d8 (S)	%.	92	75-125	02/29/16 23:20	

LABORATORY CONTROL SAMPLE:	2200827					
		Spike	LCS	LCS	% Rec	
Parameter	Units	Conc.	Result	% Rec	Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	46.5	93	75-126	
1,1,1-Trichloroethane	ug/L	50	50.8	102	72-125	
1,1,2,2-Tetrachloroethane	ug/L	50	50.5	101	68-125	
1,1,2-Trichloroethane	ug/L	50	52.2	104	75-125	
1,1,2-Trichlorotrifluoroethane	ug/L	50	57.7	115	66-132	
1,1-Dichloroethane	ug/L	50	48.1	96	68-126	
1,1-Dichloroethene	ug/L	50	55.9	112	67-127	
1,1-Dichloropropene	ug/L	50	51.0	102	71-126	

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## **QUALITY CONTROL DATA**

Project: City of Rochester-CRC

Pace Project No.: 10339705

Date: 03/03/2016 10:19 AM

LABORATORY CONTROL SAMPLE:	2200827	Spike	LCS	LCS	% Rec
Parameter	Units	Conc.	Result	% Rec	Limits Qualifie
1,2,3-Trichlorobenzene	ug/L		46.8	94	63-132
1,2,3-Trichloropropane	ug/L	50	48.3	97	72-125
1,2,4-Trichlorobenzene	ug/L	50	47.2	94	59-135
1,2,4-Trimethylbenzene	ug/L	50	51.2	102	70-132
1,2-Dibromo-3-chloropropane	ug/L	125	120	96	58-130
1,2-Dibromoethane (EDB)	ug/L	50	48.3	97	75-125
1,2-Dichlorobenzene	ug/L	50	49.8	100	74-125
1,2-Dichloroethane	ug/L	50	53.2	106	71-125
I,2-Dichloropropane	ug/L	50	49.3	99	72-125
1,3,5-Trimethylbenzene	ug/L	50	52.2	104	73-125
I,3-Dichlorobenzene	ug/L	50	49.4	99	74-125
I,3-Dichloropropane	ug/L	50	48.3	97	75-125
1,4-Dichlorobenzene	ug/L	50	50.6	101	74-125
2,2-Dichloropropane	ug/L	50	46.8	94	64-138
2-Butanone (MEK)	ug/L	250	267	107	61-129
2-Chloroethylvinyl ether	ug/L	125	278	222	30-150 L0
2-Chlorotoluene	ug/L	50	51.7	103	70-126
4-Chlorotoluene	ug/L	50	52.3	105	73-125
	ug/L	250	269	103	63-135
4-Methyl-2-pentanone (MIBK) Acetone	ug/∟ ug/L	250	264	107	66-150
	-	50	53.0	106	62-139
Allyl chloride	ug/L				67-126
Benzene Bramahanzana	ug/L	50 50	53.3	107	
Bromobenzene	ug/L	50	53.2	106	72-125
Bromochloromethane	ug/L	50	52.8	106	73-125
Bromodichloromethane	ug/L	50	50.7	101	71-126
Bromoform	ug/L	50	45.6	91	64-130
3romomethane	ug/L	50	34.7	69	30-150
Carbon tetrachloride	ug/L	50	51.4	103	71-128
Chlorobenzene	ug/L	50	51.0	102	75-125
Chloroethane	ug/L	50	46.6	93	60-130
Chloroform	ug/L	50	49.9	100	73-125
Chloromethane	ug/L	50	47.8	96	49-146
cis-1,2-Dichloroethene	ug/L	50	54.1	108	68-131
cis-1,3-Dichloropropene	ug/L	50	50.4	101	73-125
Dibromochloromethane	ug/L	50	48.1	96	71-125
Dibromomethane	ug/L	50	46.0	92	71-131
Dichlorodifluoromethane	ug/L	50	51.6	103	56-145
Dichlorofluoromethane	ug/L	50	54.9	110	69-128
Diethyl ether (Ethyl ether)	ug/L	50	52.7	105	65-127
Ethylbenzene	ug/L	50	50.5	101	75-125
Hexachloro-1,3-butadiene	ug/L	50	40.5	81	62-145
sopropylbenzene (Cumene)	ug/L	50	52.8	106	75-133
m&p-Xylene	ug/L	100	96.4	96	75-126
Methyl-tert-butyl ether	ug/L	50	50.9	102	73-125
Methylene Chloride	ug/L	50	56.8	114	72-128
n-Butylbenzene	ug/L	50	51.5	103	67-131
n-Propylbenzene	ug/L	50	49.5	99	70-128

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## **QUALITY CONTROL DATA**

Project: City of Rochester-CRC

Pace Project No.: 10339705

Date: 03/03/2016 10:19 AM

LABORATORY CONTROL SAMPLE:	2200827					
		Spike	LCS	LCS	% Rec	
Parameter	Units	Conc.	Result	% Rec	Limits	Qualifiers
Naphthalene	ug/L		48.4	97	54-139	
o-Xylene	ug/L	50	49.5	99	75-125	
p-Isopropyltoluene	ug/L	50	51.5	103	71-128	
sec-Butylbenzene	ug/L	50	51.4	103	73-132	
Styrene	ug/L	50	54.8	110	75-128	
tert-Butylbenzene	ug/L	50	48.9	98	75-130	
Tetrachloroethene	ug/L	50	48.9	98	67-129	
Tetrahydrofuran	ug/L	500	514	103	73-137	
Toluene	ug/L	50	49.9	100	74-125	
trans-1,2-Dichloroethene	ug/L	50	58.7	117	65-128	
trans-1,3-Dichloropropene	ug/L	50	49.5	99	75-125	
Trichloroethene	ug/L	50	49.5	99	72-125	
Trichlorofluoromethane	ug/L	50	56.3	113	70-132	
Vinyl chloride	ug/L	50	52.4	105	69-130	
Xylene (Total)	ug/L	150	146	97	75-125	
1,2-Dichloroethane-d4 (S)	%.			105	75-125	
4-Bromofluorobenzene (S)	%.			97	75-125	
Toluene-d8 (S)	%.			93	75-125	

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#### **QUALITY CONTROL DATA**

Matrix: Water

Project: City of Rochester-CRC

Pace Project No.: 10339705

QC Batch: MSV/32393 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV

Associated Lab Samples: 10339705001, 10339705002, 10339705003, 10339705004, 10339705005, 10339705006, 10339705007,

10339705008, 10339705009, 10339705010, 10339705011, 10339705012, 10339705013, 10339705014,

10339705015, 10339705018

METHOD BLANK: 1301156

Associated Lab Samples:

Date: 03/03/2016 10:19 AM

		Blank	Reporting		
Parameter	Units	Result	Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND ND	1.0	03/02/16 10:54	
1,1,1-Trichloroethane	ug/L	ND	1.0	03/02/16 10:54	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	03/02/16 10:54	
1,1,2-Trichloroethane	ug/L	ND	1.0	03/02/16 10:54	
1,1,2-Trichlorotrifluoroethane	ug/L	ND	5.0	03/02/16 10:54	
1,1-Dichloroethane	ug/L	ND	1.0	03/02/16 10:54	
1,1-Dichloroethene	ug/L	ND	1.0	03/02/16 10:54	
1,1-Dichloropropene	ug/L	ND	1.0	03/02/16 10:54	
1,2,3-Trichlorobenzene	ug/L	ND	5.0	03/02/16 10:54	
1,2,3-Trichloropropane	ug/L	ND	1.0	03/02/16 10:54	
1,2,4-Trichlorobenzene	ug/L	ND	5.0	03/02/16 10:54	
1,2,4-Trimethylbenzene	ug/L	ND	1.0	03/02/16 10:54	
1,2-Dibromo-3-chloropropane	ug/L	ND	5.0	03/02/16 10:54	
1,2-Dibromoethane (EDB)	ug/L	ND	1.0	03/02/16 10:54	
1,2-Dichlorobenzene	ug/L	ND	1.0	03/02/16 10:54	
1,2-Dichloroethane	ug/L	ND	1.0	03/02/16 10:54	
1,2-Dichloropropane	ug/L	ND	1.0	03/02/16 10:54	
1,3,5-Trimethylbenzene	ug/L	ND	1.0	03/02/16 10:54	
1,3-Dichlorobenzene	ug/L	ND	1.0	03/02/16 10:54	
1,3-Dichloropropane	ug/L	ND	1.0	03/02/16 10:54	
1,4-Dichlorobenzene	ug/L	ND	1.0	03/02/16 10:54	
2,2-Dichloropropane	ug/L	ND	1.0	03/02/16 10:54	
2-Butanone (MEK)	ug/L	ND	20.0	03/02/16 10:54	
2-Chlorotoluene	ug/L	ND	1.0	03/02/16 10:54	
4-Chlorotoluene	ug/L	ND	1.0	03/02/16 10:54	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	5.0	03/02/16 10:54	
Acetone	ug/L	ND	20.0	03/02/16 10:54	
Allyl chloride	ug/L	ND	5.0	03/02/16 10:54	
Benzene	ug/L	ND	1.0	03/02/16 10:54	
Bromobenzene	ug/L	ND	1.0	03/02/16 10:54	
Bromochloromethane	ug/L	ND	1.0	03/02/16 10:54	
Bromodichloromethane	ug/L	ND	1.0	03/02/16 10:54	
Bromoform	ug/L	ND	1.0	03/02/16 10:54	
Bromomethane	ug/L	ND	5.0	03/02/16 10:54	
Carbon tetrachloride	ug/L	ND	1.0	03/02/16 10:54	
Chlorobenzene	ug/L	ND	1.0	03/02/16 10:54	
Chloroethane	ug/L	ND	1.0	03/02/16 10:54	
Chloroform	ug/L	ND	5.0	03/02/16 10:54	
Chloromethane	ug/L	ND	1.0	03/02/16 10:54	
cis-1,2-Dichloroethene	ug/L	ND	1.0	03/02/16 10:54	

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(612)607-1700



### **QUALITY CONTROL DATA**

Project: City of Rochester-CRC

LABORATORY CONTROL SAMPLE: 1301157

1,2-Dibromo-3-chloropropane

1,2-Dibromoethane (EDB)

Date: 03/03/2016 10:19 AM

1,2-Dichlorobenzene

Pace Project No.: 10339705

METHOD BLANK: 1301156 Matrix: Water

Associated Lab Samples:

		Blank	Reporting		
Parameter	Units	Result	Limit	Analyzed	Qualifiers
cis-1,3-Dichloropropene	ug/L	ND ND	1.0	03/02/16 10:54	
Dibromochloromethane	ug/L	ND	1.0	03/02/16 10:54	
Dibromomethane	ug/L	ND	1.0	03/02/16 10:54	
Dichlorodifluoromethane	ug/L	ND	1.0	03/02/16 10:54	
Dichlorofluoromethane	ug/L	ND	1.0	03/02/16 10:54	
Diethyl ether (Ethyl ether)	ug/L	ND	5.0	03/02/16 10:54	
Ethylbenzene	ug/L	ND	1.0	03/02/16 10:54	
Hexachloro-1,3-butadiene	ug/L	ND	5.0	03/02/16 10:54	
Isopropylbenzene (Cumene)	ug/L	ND	1.0	03/02/16 10:54	
Methyl-tert-butyl ether	ug/L	ND	1.0	03/02/16 10:54	
Methylene Chloride	ug/L	ND	1.0	03/02/16 10:54	
n-Butylbenzene	ug/L	ND	1.0	03/02/16 10:54	
n-Propylbenzene	ug/L	ND	1.0	03/02/16 10:54	
Naphthalene	ug/L	ND	5.0	03/02/16 10:54	
p-Isopropyltoluene	ug/L	ND	1.0	03/02/16 10:54	
sec-Butylbenzene	ug/L	ND	5.0	03/02/16 10:54	
Styrene	ug/L	ND	1.0	03/02/16 10:54	
tert-Butylbenzene	ug/L	ND	1.0	03/02/16 10:54	
Tetrachloroethene	ug/L	ND	1.0	03/02/16 10:54	
Tetrahydrofuran	ug/L	ND	5.0	03/02/16 10:54	
Toluene	ug/L	ND	1.0	03/02/16 10:54	
trans-1,2-Dichloroethene	ug/L	ND	1.0	03/02/16 10:54	
trans-1,3-Dichloropropene	ug/L	ND	1.0	03/02/16 10:54	
Trichloroethene	ug/L	ND	1.0	03/02/16 10:54	
Trichlorofluoromethane	ug/L	ND	1.0	03/02/16 10:54	
Vinyl chloride	ug/L	ND	1.0	03/02/16 10:54	
Xylene (Total)	ug/L	ND	3.0	03/02/16 10:54	
4-Bromofluorobenzene (S)	%	92	70-130	03/02/16 10:54	
Dibromofluoromethane (S)	%	106	70-130	03/02/16 10:54	
Toluene-d8 (S)	%	98	70-130	03/02/16 10:54	

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L		50.3	101	70-130	
1,1,2,2-Tetrachloroethane	ug/L	50	43.1	86	70-130	
1,1,2-Trichloroethane	ug/L	50	46.0	92	70-130	
1,1,2-Trichlorotrifluoroethane	ug/L	50	52.5	105	50-150	
1,1-Dichloroethane	ug/L	50	44.9	90	70-130	
1,1-Dichloroethene	ug/L	50	41.8	84	70-130	
1,2,4-Trichlorobenzene	ug/L	50	44.0	88	70-130	

50

50

50

ug/L

ug/L

ug/L

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

41.7

44.0

48.9

83

88

98

50-150

70-130

70-130

(612)607-1700



### **QUALITY CONTROL DATA**

Project: City of Rochester-CRC

Pace Project No.: 10339705

Date: 03/03/2016 10:19 AM

ABORATORY CONTROL SAMPLE:	1301157					
		Spike	LCS	LCS	% Rec	
Parameter	Units	Conc.	Result	% Rec	Limits	Qualifiers
2-Dichloroethane	ug/L	50	53.1	106	70-131	
2-Dichloropropane	ug/L	50	48.8	98	70-130	
3-Dichlorobenzene	ug/L	50	47.1	94	70-130	
-Dichlorobenzene	ug/L	50	48.9	98	70-130	
nzene	ug/L	50	41.3	83	70-130	
omodichloromethane	ug/L	50	51.4	103	70-130	
omoform	ug/L	50	48.0	96	68-130	
omomethane	ug/L	50	36.2	72	38-137	
rbon tetrachloride	ug/L	50	52.8	106	70-130	
orobenzene	ug/L	50	49.9	100	70-130	
loroethane	ug/L	50	35.2	70	70-136	
loroform	ug/L	50	48.7	97	70-130	
loromethane	ug/L	50	37.7	75	48-144	
1,2-Dichloroethene	ug/L	50	40.9	82	70-130	
1,3-Dichloropropene	ug/L	50	45.1	90	70-130	
romochloromethane	ug/L	50	48.0	96	70-130	
nlorodifluoromethane	ug/L	50	23.0	46	33-157	
/lbenzene	ug/L	50	47.2	94	70-132	
ropylbenzene (Cumene)	ug/L	50	52.8	106	70-130	
hyl-tert-butyl ether	ug/L	50	39.3	79	48-141	
hylene Chloride	ug/L	50	44.0	88	70-130	
ene	ug/L	50	46.6	93	70-130	
achloroethene	ug/L	50	53.6	107	70-130	
ene	ug/L	50	46.8	94	70-130	
s-1,2-Dichloroethene	ug/L	50	43.3	87	70-130	
s-1,3-Dichloropropene	ug/L	50	45.0	90	70-130	
hloroethene	ug/L	50	51.1	102	70-130	
hlorofluoromethane	ug/L	50	46.8	94	50-150	
d chloride	ug/L	50	36.1	72	65-142	
ene (Total)	ug/L	150	136	91	70-132	
omofluorobenzene (S)	%			98	70-130	
romofluoromethane (S)	%			100	70-130	
uene-d8 (S)	%			98	70-130	

MATRIX SPIKE & MATRIX SPIR	KE DUPLIC	ATE: 13015	51		1301552							
Parameter	Units	40128753016 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1,1-Trichloroethane	ug/L	<0.50	50	50	51.0	53.9	102	108	70-130	5	20	
1,1,2,2-Tetrachloroethane	ug/L	< 0.25	50	50	44.8	40.9	90	82	70-130	9	20	
1,1,2-Trichloroethane	ug/L	< 0.20	50	50	46.7	46.0	93	92	70-130	1	20	
1,1,2-Trichlorotrifluoroethane	ug/L	<0.81	50	50	51.0	52.1	102	104	50-151	2	20	
1,1-Dichloroethane	ug/L	< 0.24	50	50	48.0	51.1	96	102	70-134	6	20	
1,1-Dichloroethene	ug/L	< 0.41	50	50	41.9	43.0	84	86	70-139	3	20	
1,2,4-Trichlorobenzene	ug/L	<2.2	50	50	46.5	42.8	93	86	70-130	8	20	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.



Project: City of Rochester-CRC

Pace Project No.: 10339705

Date: 03/03/2016 10:19 AM

MATRIX SPIKE & MATRIX SPI	KE DUPLICA	TE: 13015			1301552							
			MS	MSD					a. <b>5</b>			
Parameter	4 Units	0128753016 Result	Spike Conc.	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max	Qu
I,2-Dibromo-3- chloropropane	ug/L	<2.2	50	50	41.3	43.7	83	87	50-150	6	20	
1,2-Dibromoethane (EDB)	ug/L	<0.18	50	50	43.3	44.9	87	90	70-130	4	20	
,2-Dichlorobenzene	ug/L	< 0.50	50	50	50.5	48.6	101	97	70-130	4	20	
,2-Dichloroethane	ug/L	<0.17	50	50	54.6	56.5	109	113	70-132	3	20	
,2-Dichloropropane	ug/L	< 0.23	50	50	50.0	50.8	100	102	70-130	2	20	
,3-Dichlorobenzene	ug/L	< 0.50	50	50	50.1	47.7	100	95	70-130	5	20	
,4-Dichlorobenzene	ug/L	< 0.50	50	50	51.4	49.3	103	99	70-130	4	20	
Benzene	ug/L	< 0.50	50	50	42.9	44.2	85	88	70-130	3	20	
Bromodichloromethane	ug/L	<0.50	50	50	52.1	53.5	104	107	70-132	3	20	
Bromoform	ug/L	< 0.50	50	50	46.8	44.9	94	90	68-130	4	20	
Bromomethane	ug/L	<2.4	50	50	38.8	42.1	78	84	38-141	8	20	
Carbon tetrachloride	ug/L	< 0.50	50	50	52.9	54.9	106	110	70-130	4	20	
Chlorobenzene	ug/L	< 0.50	50	50	49.8	51.0	100	102	70-130	2	20	
Chloroethane	ug/L	< 0.37	50	50	38.1	36.3	76	73	66-152	5	20	
Chloroform	ug/L	<2.5	50	50	50.4	52.9	101	106	70-130	5	20	
Chloromethane	ug/L	< 0.50	50	50	38.4	43.5	77	87	44-151	12	20	
is-1,2-Dichloroethene	ug/L	45.5	50	50	86.6	89.8	82	89	70-130	4	20	
is-1,3-Dichloropropene	ug/L	< 0.50	50	50	46.8	46.2	94	92	70-130	1	20	
Dibromochloromethane	ug/L	< 0.50	50	50	47.1	46.9	94	94	70-130	0	20	
Dichlorodifluoromethane	ug/L	<0.22	50	50	22.5	22.1	45	44	29-160	1	20	
Ethylbenzene	ug/L	< 0.50	50	50	46.1	49.6	92	99	70-132	7	20	
sopropylbenzene (Cumene)	ug/L	< 0.14	50	50	51.6	57.9	103	116	70-130	12	20	
Methyl-tert-butyl ether	ug/L	<0.17	50	50	40.6	43.9	81	88	48-143	8	20	
Methylene Chloride	ug/L	< 0.23	50	50	44.1	46.0	88	92	70-130	4	20	
Styrene	ug/L	< 0.50	50	50	33.2	29.8	66	60	70-130	11	20	M1
etrachloroethene	ug/L	< 0.50	50	50	54.1	48.4	108	97	70-130	11	20	
oluene	ug/L	< 0.50	50	50	46.2	43.7	92	87	70-130	6	20	
rans-1,2-Dichloroethene	ug/L	10.1	50	50	53.6	55.0	87	90	70-132	3	20	
rans-1,3-Dichloropropene	ug/L	<0.23	50	50	44.2	44.8	88	90	70-130	1	20	
richloroethene	ug/L	33.5	50	50	87.0	88.6	107	110	70-130	2	20	
richlorofluoromethane	ug/L	<0.18	50	50	46.3	49.9	93	100	50-153	7		
/inyl chloride	ug/L	2.7	50	50	39.8	39.1	74	73	60-155	2	20	
(ylene (Total)	ug/L	<1.5	150	150	131	138	88	92	70-132	5	20	
-Bromofluorobenzene (S)	%		3.0	-	-		96	108	70-130	_	-	
Dibromofluoromethane (S)	%						101	107	70-130			
oluene-d8 (S)	%						98	94	70-130			

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.



### **QUALIFIERS**

Project: City of Rochester-CRC

Pace Project No.: 10339705

### **DEFINITIONS**

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

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.

PQL - Practical Quantitation Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

**DUP - Sample Duplicate** 

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

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

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

TNI - The NELAC Institute.

### **LABORATORIES**

PASI-G Pace Analytical Services - Green Bay
PASI-M Pace Analytical Services - Minneapolis

### **ANALYTE QUALIFIERS**

Date: 03/03/2016 10:19 AM

- LO 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.
- M1 Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
- c2 Acid preservation may not be appropriate for the analysis of 2-Chloroethylvinyl ether.



### **QUALITY CONTROL DATA CROSS REFERENCE TABLE**

Project: City of Rochester-CRC

Pace Project No.: 10339705

Date: 03/03/2016 10:19 AM

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytica Batch
10339705016	AS-Influent	EPA 624	MSV/34759		
10339705017	AS-Effluent	EPA 624	MSV/34759		
10339705001	DPE-1	EPA 8260	MSV/32393		
10339705002	DPE-2	EPA 8260	MSV/32393		
10339705003	DPE-3	EPA 8260	MSV/32393		
10339705004	DPE-4	EPA 8260	MSV/32393		
10339705005	DPE-5	EPA 8260	MSV/32393		
10339705006	DPE-6	EPA 8260	MSV/32393		
10339705007	DPE-7	EPA 8260	MSV/32393		
10339705008	DPE-8	EPA 8260	MSV/32393		
10339705009	MW-14	EPA 8260	MSV/32393		
10339705010	MW-15	EPA 8260	MSV/32393		
10339705011	MW-16	EPA 8260	MSV/32393		
10339705012	MW-17	EPA 8260	MSV/32393		
10339705013	MW-18	EPA 8260	MSV/32393		
10339705014	MW-19	EPA 8260	MSV/32393		
10339705015	MW-20	EPA 8260	MSV/32393		
10339705018	TRIP BLANK	EPA 8260	MSV/32393		

# CHAIN-OF-CU

CHAIN-OF-CUSTODY / Analytical Request Document
The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

10339705

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Section A	Section B	Section C	Page: 1 of 2
Company A NOMARK ENVIEDN	Report Fram Stad Stone namarken Lorn	Attention CHAPON PACADISE	1081800
Address:	andmarkenv.com	Sa Sa	REGULATORY AGENCY
	447	t	NPDES   GROUND WATER   DRINKING WATER
Rramstad@L		Pace Quote Reference:	L UST   RCRA   OTHER
Phone: Fax:	Rochester	Pace Project yeyem! odwiole	Site Location
Requested Due Date/TAT: Norm	RC	>	STATE:
		Requeste	Requested Analysis Filtered (Y/N)
Section D Required Client Information MA		<b>T</b> Preservatives	
Drinking w Water Waste Waste W	Drinking Water         DW Water         COMPOSITE         COMPOSITE		(V/Y) <del>0</del>
Samp	CODE CODE CY¥∯	e( lo)	al Chlorin
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s Ope-5	335	>	8
6 DPE-6	3:05	>	200
1 OPE-7		>	60
8 DPT-J	09:1-7 7 7 7 7	<b>&gt;</b>	90
0.F			
12			
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e 51	PRINT Name of SAMPLER: SHAVNON	RUSSELL	ni qr eived 3 (Y/N) 3 (Y/N) 3 (Y/N)
of 5	SIGNATURE of SAMPLER:	DATE Signed (MM/DD/77):	7 23 20/6 Feed 100 Samp
	"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.		F-ALL-Q-020rev.07, 15-May-2007

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# CHAIN-OF-CUSTODY / Analytical Request Document

3079705

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

DRINKING WATER 1981894 OTHER GROUND WATER 1 Page: REGULATORY AGENCY RCRA Requested Analysis Filtered (Y/N) NPDES Site Location STATE: TSU T Pace Quote
Reference:
Manager: Oversemi Odujoleee
Pace Profile #: Company Name: Ann Braem Attention: Sharon Paradise Invoice Information: Section C Address: Section B
Required Project Information:
Report To: J S Kramstad @ landmarkenv.com CODY TO: SPLESSELLE JONAPHANTENV, COM Email To: SKKam Stad bridmar Kelly com Project Name: City of Rochester 2 Project Number: Environ mental Requested Due Date/TAT: Normの Company: Land Mark Section A
Required Client Information: Address:

SAMPLE ID CONSEGUE WITH WE CONTRICT THE CONT		Section D Matri Required Client Information MATRI)	Matrix Codes MATRIX / CODE		(AMC		COLLECTED	стер				P	eserv	Preservatives		Î N/A		1.0									
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## Pace Analytical

### Document Name:

### Sample Condition Upon Receipt Form

Document No.:

Document Revised: 05Jan2016

Page 1 of 1 Issuing Authority:

F-MN-L-213-rev.15 Pace Minnesota Quality Office Sample Condition Client Name: Project #: WO#: 10339705 Upon Receipt andrew En Courier: Fed Ex **TUPS** Commercial Pace SpeeDee Other: Tracking Number: Optional: Proj. Due Date: Proj. Name: No Custody Seal on Cooler/Box Present? Yes Tho Seals Intact? Yes Bubble Bags None Other:_ Temp Blank? Yes No Packing Material: Bubble Wrap Thermometer 151401163 151401164 B88A912167504 Type of Ice: □Wet Blue None Samples on ice, cooling process has begun Used: ☐B88A0143310098 Cooler Temp Read (°C): 4. Cooler Temp Corrected (°C): 4. Biological Tissue Frozen? Yes No A/A Correction Factor: Date and Initials of Person Examining Contents: 2516) Temp should be above freezing to 6°C USDA Regulated Soil ( N/A, water sample) Did samples originate in a quarantine zone within the United States: AL, AR, AZ, CA, FL, GA, ID, LA. Did samples originate from a foreign source (internationally, Yes No including Hawaii and Puerto Rico)? MS, NC, NM, NY, OK, OR, SC, TN, TX or WA (check maps)? Yes If Yes to either question, fill out a Regulated Soil Checklist (F-MN-Q-338) and include with SCUR/COC paperwork. COMMENTS: Chain of Custody Present? Yes □No □N/A Chain of Custody Filled Out? Yes □No □N/A 2. Chain of Custody Relinquished? Yes □No □N/A Sampler Name and/or Signature on COC? Yes □No □N/A Samples Arrived within Hold Time? Yes □No □N/A Short Hold Time Analysis (<72 hr)? Yes DNO □N/A Rush Turn Around Time Requested? Yes No □N/A □No Sufficient Volume? □N/A Yes Correct Containers Used? 9. Yes □No □N/A -Pace Containers Used? Yes □No □N/A Containers Intact? Yes No □N/A 10. Filtered Volume Received for Dissolved Tests? Yes □No -UN/A 11. Note if sediment is visible in the dissolved container Sample Labels Match COC? Yes □No □N/A 12. -Includes Date/Time/ID/Analysis Matrix:__ All containers needing acid/base preservation have been 13. □HNO₃ ☐H₂SO₄ ■NaOH HCI checked? □No □N/A Yes All containers needing preservation are found to be in Sample # compliance with EPA recommendation? (HNO₃, H₂SO₄, HCl<2; NaOH >9 Sulfide, NaOH>12 Cyanide) Yes □No N/A Exceptions, VOA, Coliform, TOC, Oil and Grease, Initial when Lot # of added DRO/8015 (water) DOC □No □N/A completed: preservative: Headspace in VOA Vials (>6mm)? Yes - No □N/A 14. Trip Blank Present? Yes No □N/A 15. Trip Blank Custody Seals Present? √∐Yes □No □N/A 021216-01 Pace Trip Blank Lot # (if purchased):

**CLIENT NOTIFICATION/RESOLUTION** Field Data Required? Yes No Person Contacted: Date/Time: Comments/Resolution:

Project Wanager Review:

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).

Workorder: 10339705 Workorder Name: City of Rochester-CRC Owner Received Date: 2/25/2016 Results Requested By: 3/3/2016 Face Analytical sage \$4 of

Comparison   Com	16	15	14	13	12	<u>-1</u>	ō	ပ	8	7	6	5	4	3	2	-1		<b>4</b> ,	Fax	P ≤	170	Oye Pac	Rep
Subcontract to   Requested Analysis   Pada Pady (Collect   Suite 9   Green Bay, WI 54302   Phone (920)/459-2436   Final Pada Pady (WI 54302   Phone (920)/459-2436   Final Pady (WI 54302   Final Pady (WI 5	TRIP BLANK	MW-20	MW-19	MW-18	MW-17	MW-16	MW-15	WV-14	DPE-8	DPE-7	DPE-6	DPE-5	DPE-4	DPE-3	DPE-2	DPE-1	Sample ID		(612)607-6444	neapolis, MN 55414 ne (612)607-1700	0 Elm Street, Suite 200	yemi Odujole e Analytical Services, Inc.	Report To
Procedurate to   Procedurate   Processor Analytical Green Bay   1241 Bellevue Street   Suite 9	PS	Sd	PS	PS	Sd	PS	Sd	PS	PS	Sample Type	-					В							
Vical Green Bay vue Street  Preserved Containers  Preserved Containers  I	2/23/2016 00:00	2/23/2016 15:20	2/23/2016 12:50	2/23/2016 18:00	2/23/2016 17:35	2/23/2016 15:45	2/23/2016 13:55	2/23/2016 13:40	2/23/2016 16:00	2/23/2016 13:15	2/23/2016 15:05	2/23/2016 15:35	2/23/2016 16:25	2/23/2016 16:55	2/23/2016 16:40	2/23/2016 17:10	Collect Date/Time			Green Phone	Suite	Pace . 1241 I	Subcontra
Bay	10339705018	10339705015	10339705014	10339705013	10339705012	10339705011	10339705010	10339705009	10339705008	10339705007	10339705006	10339705005	10339705004	10339705003	10339705002	10339705001	Lab ID			ı Bay, WI 5430 e (920)469-2436	9	Analytical Greer Bellevue Street	ct To
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LAB USE ONLY 3-40mly	_	_	<u> </u>		<u> </u>	<b> -</b> -	_			_			_	_	_	_				<del>Manuscana</del> n	<b></b>	***************************************	sis
LAB USE ONLY  3-40mly			<u> </u>	<u> </u>	<del> </del>	<u> </u>	<u> </u>	<u> </u>			_		_		_	<u> </u>		<del>on and and and and and and and and and an</del>	SS TENNEN PROPERTY		**************************************		
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LAB USE ONLY  3-40mly	6.	<u> </u>	<u> </u>			<u></u>	<b>L</b>	_	_	-		_	_	_	<u> </u>	_			ro wy asternia		************		
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Cooler Temperature on Receipt Transfers Released By ကိ Date/Time Custody Seal Received By Received on Ice Date/Time or Samples Intact Comments

# Pace Analytical*

### Sample Condition Upon Receipt

Pace Analytical Services, Inc. 1241 Bellevue Street, Suite 9 Green Bay, WI 54302

Client Name: Pall MA	J			Project #:	WO#	:40128825
Courier: Fed Ex F UPS F Client F Pac	v Other	١٨	IAH	(0	<b>ii 1 i</b> ii ii	
Tracking #: 995032 -		V\	11461	<u> </u>	401399	
Custody Seal on Cooler/Box Present: 17 yes	no :	Seals	intact:	yes no		5
Custody Seal on Samples Present: Tyes		Seals	intact	∶ h yes no		
Packing Material:   Bubble Wrap   Bubl	ble Bags		Non	e Cother		
Thermometer Used SRID4	Type of	fice:(	Wet	Blue Dry None	Samples on	ice, cooling process has begun
Cooler Temperature Uncorr: / /Corr:			Biolo	gical Tissue is Froz	zen: Fyes	
Temp Blank Present: Ves I no					r no ∣	Person examining contents:
Temp should be above freezing to 6°C for all sample exc Frozen Biota Samples should be received ≤ 0°C.	cept Biota.			Comments:		Initials:
Chain of Custody Present:	Lyes [	□No	□n/a	1.		
Chain of Custody Filled Out:	Dives [	JNo	□n/a	2.		
Chain of Custody Relinquished:	Dayes [	JNo	□n/a	3.		
Sampler Name & Signature on COC:	□Yes [	□No	(XIVA	4. IRINO		3/2/16 74
Samples Arrived within Hold Time:	Yes [	□No	□n/a	5.		
- VOA Samples frozen upon receipt	□Yes □	□No		Date/Time:		
Short Hold Time Analysis (<72hr):	□Yes Ì	AND	□n/a	6.		
Rush Turn Around Time Requested:	Wyes [	□No	□n/a	7.33110		3/2/110 13
Sufficient Volume:	DXxes [	□No	□n/a	8.		/ '
Correct Containers Used:	XXes C	□No	□n/a	9.		
-Pace Containers Used:	Ùyes ₺	JAN .	□n/a			
-Pace IR Containers Used:	Down [	]No	□n/a			
Containers Intact:	Vyes [	□No	□n/a	10.		
Filtered volume received for Dissolved tests	□Yes □	∃No	AWZ	11.		
Sample Labels match COC:	DXV es [	JNo ∕	□n/a	12.		
-Includes date/time/ID/Analysis Matrix:	<u> </u>	<u>/</u>	<del>-</del>			
All containers needing preservation have been checked. (Non-Compliance noted in 13.)	□Yes □	□No	AMA	T HNO3	F H2SO4 F	NaOH   NaOH +ZnAct
All containers needing preservation are found to be in			- 74-	10.		
compliance with EPA recommendation. (HNO3, H2SO4 ≤2; NaOH+ZnAct ≥9, NaOH ≥12)	□Yes □	∃No	DAVA			
exceptions: YOA, coliform, TOC, TOX, TOH,			-'	Initial when L	ab Std #ID of	Date/
O&G, WIDROW, Phenolics, OTHER:	Tyres [	]No		completed p	reservative	Time:
Headspace in VOA Vials ( >6mm):	Yes 【	_6M <u></u>	□n/a	14.		
Trip Blank Present:	540g [	□No	□n/a	15.		
Trip Blank Custody Seals Present	Dysos [	]No	□n/a			
Pace Trip Blank Lot # (if purchased):	`					No as for a delition of a second of
Client Notification/ Resolution: Person Contacted:			Date/⊺		ecked, see attache	d form for additional comments
Person Contacted: Comments/ Resolution:		······· '	Ja16/ 1	HIIG.		
Project Manager Review:					Date:	3/2/16





April 06, 2016

Aaron Kuck Landmark Environmenatl 2042 W 98th St. Bloomingotn, MN 55431

RE: Project: CRC- City of Rochester

Pace Project No.: 10343231

### Dear Aaron Kuck:

Enclosed are the analytical results for sample(s) received by the laboratory on March 31, 2016. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

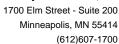
If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Oyeyemi Odujole oyeyemi.odujole@pacelabs.com Project Manager

**Enclosures** 







### **CERTIFICATIONS**

Project: CRC- City of Rochester

Pace Project No.: 10343231

**Minnesota Certification IDs** 

1700 Elm Street SE Suite 200, Minneapolis, MN 55414

525 N 8th Street, Salina, KS 67401 A2LA Certification #: 2926.01 Alaska Certification #: UST-078 Alaska Certification #MN00064 Alabama Certification #40770 Arizona Certification #: AZ-0014 Arkansas Certification #: 88-0680 California Certification #: 01155CA Colorado Certification #Pace

Connecticut Certification #: PH-0256 EPA Region 8 Certification #: 8TMS-L Florida/NELAP Certification #: E87605

Guam Certification #:14-008r Georgia Certification #: 959 Georgia EPD #: Pace

Idaho Certification #: MN00064 Hawaii Certification #MN00064 Illinois Certification #: 200011 Indiana Certification#C-MN-01 Iowa Certification #: 368 Kansas Certification #: E-10167

Kentucky Dept of Envi. Protection - DW #90062 Kentucky Dept of Envi. Protection - WW #:90062

Louisiana DEQ Certification #: 3086 Louisiana DHH #: LA140001 Maine Certification #: 2013011 Maryland Certification #: 322 Michigan DEPH Certification #: 9909

Minnesota Certification #: 027-053-137 Mississippi Certification #: Pace Montana Certification #: MT0092 Nevada Certification #: MN_00064

Nebraska Certification #: Pace New Jersey Certification #: MN-002 New York Certification #: 11647 North Carolina Certification #: 530

North Carolina State Public Health #: 27700

North Dakota Certification #: R-036

Ohio EPA #: 4150 Ohio VAP Certification #: CL101 Oklahoma Certification #: 9507 Oregon Certification #: MN200001 Oregon Certification #: MN300001 Pennsylvania Certification #: 68-00563

Puerto Rico Certification Saipan (CNMI) #:MP0003 South Carolina #:74003001 Texas Certification #: T104704192 Tennessee Certification #: 02818 Utah Certification #: MN000642013-4 Virginia DGS Certification #: 251 Virginia/VELAP Certification #: Pace Washington Certification #: C486 West Virginia Certification #: 382 West Virginia DHHR #:9952C

Wisconsin Certification #: 999407970



### **SAMPLE SUMMARY**

Project: CRC- City of Rochester

Pace Project No.: 10343231

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10343231001	AS-Influent	Water	03/30/16 15:30	03/31/16 12:15
10343231002	AS-Effluent	Water	03/30/16 16:00	03/31/16 12:15





### **SAMPLE ANALYTE COUNT**

Project: CRC- City of Rochester

Pace Project No.: 10343231

Lab ID	Sample ID	Method	Analysts	Analytes Reported
10343231001	AS-Influent	EPA 624	DJB	73
10343231002	AS-Effluent	EPA 624	DJB	73

(612)607-1700



### **ANALYTICAL RESULTS**

Project: CRC- City of Rochester

Pace Project No.: 10343231

Date: 04/06/2016 03:44 PM

Parameters	Results							
		Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qua
624 MSV	Analytical Meth	nod: EPA 62	24					
Acetone	38.9	ug/L	20.0	1		04/05/16 13:17	7 67-64-1	
Allyl chloride	ND	ug/L	4.0	1		04/05/16 13:17	7 107-05-1	
Benzene	ND	ug/L	1.0	1		04/05/16 13:17	7 71-43-2	
Bromobenzene	ND	ug/L	1.0	1		04/05/16 13:17	7 108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		04/05/16 13:17	7 74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		04/05/16 13:17	7 75-27-4	
Bromoform	ND	ug/L	4.0	1		04/05/16 13:17	7 75-25-2	
Bromomethane	ND	ug/L	4.0	1		04/05/16 13:17	7 74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	1		04/05/16 13:17	7 78-93-3	
n-Butylbenzene	ND	ug/L	1.0	1		04/05/16 13:17	7 104-51-8	
sec-Butylbenzene	ND	ug/L	1.0	1		04/05/16 13:17		
ert-Butylbenzene	ND	ug/L	1.0	1		04/05/16 13:17	7 98-06-6	
Carbon tetrachloride	ND	ug/L	1.0	1		04/05/16 13:17	7 56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		04/05/16 13:17	7 108-90-7	
Chloroethane	ND	ug/L	1.0	1		04/05/16 13:17	7 75-00-3	
2-Chloroethylvinyl ether	ND	ug/L	10.0	1		04/05/16 13:17		P5,c2
Chloroform	ND	ug/L	1.0	1		04/05/16 13:17		,
Chloromethane	ND	ug/L	4.0	1		04/05/16 13:17		
2-Chlorotoluene	ND	ug/L	1.0	1		04/05/16 13:17		
4-Chlorotoluene	ND	ug/L	1.0	1		04/05/16 13:17		
1,2-Dibromo-3-chloropropane	ND	ug/L	4.0	1		04/05/16 13:17		
Dibromochloromethane	ND	ug/L	1.0	1		04/05/16 13:17		
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		04/05/16 13:17		
Dibromomethane	ND	ug/L	4.0	1		04/05/16 13:17		
1,2-Dichlorobenzene	ND	ug/L	1.0	1		04/05/16 13:17		
1,3-Dichlorobenzene	ND	ug/L	1.0	1		04/05/16 13:17		
1,4-Dichlorobenzene	ND	ug/L	1.0	1		04/05/16 13:17		
Dichlorodifluoromethane	ND	ug/L	1.0	1		04/05/16 13:17		
1,1-Dichloroethane	ND	ug/L	1.0	1		04/05/16 13:17		
1,2-Dichloroethane	ND	ug/L	1.0	1		04/05/16 13:17		
1,1-Dichloroethene	ND	ug/L	1.0	1		04/05/16 13:17		
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		04/05/16 13:17		
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		04/05/16 13:17		
Dichlorofluoromethane	ND	ug/L	1.0	1		04/05/16 13:17		
1,2-Dichloropropane	ND	ug/L	4.0	1		04/05/16 13:17		
1,3-Dichloropropane	ND	ug/L	1.0	1		04/05/16 13:17		
2,2-Dichloropropane	ND	ug/L	4.0	1		04/05/16 13:17		
1,1-Dichloropropene	ND	ug/L	1.0	1		04/05/16 13:17		
cis-1,3-Dichloropropene	ND	ug/L	4.0	1		04/05/16 13:17		
trans-1,3-Dichloropropene	ND ND	ug/L	4.0	1		04/05/16 13:17		
Diethyl ether (Ethyl ether)	ND ND	ug/L	4.0	1		04/05/16 13:17		
Ethylbenzene	ND ND	ug/L ug/L	1.0	1		04/05/16 13:17		
Hexachloro-1,3-butadiene	ND ND	ug/L ug/L	1.0	1		04/05/16 13:17		
sopropylbenzene (Cumene)	ND ND	ug/L ug/L	1.0	1		04/05/16 13:17		
o-Isopropyltoluene	ND ND	ug/L ug/L	1.0	1		04/05/16 13:17		
Methylene Chloride	ND ND	_		1		04/05/16 13:17		L2
Methylene Chloride 4-Methyl-2-pentanone (MIBK)	ND ND	ug/L ug/L	4.0 5.0	1		04/05/16 13:17		L2

### **REPORT OF LABORATORY ANALYSIS**

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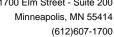


Project: CRC- City of Rochester

Pace Project No.: 10343231

Date: 04/06/2016 03:44 PM

Sample: AS-Influent	Lab ID: 103	43231001	Collected: 03/30/1	6 15:30	Received: 03/	31/16 12:15 N	Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qua
624 MSV	Analytical Meth	nod: EPA 62	24					
Methyl-tert-butyl ether	ND	ug/L	1.0	1		04/05/16 13:17	1634-04-4	
Naphthalene	ND	ug/L	4.0	1		04/05/16 13:17	91-20-3	
n-Propylbenzene	ND	ug/L	1.0	1		04/05/16 13:17	103-65-1	
Styrene	ND	ug/L	1.0	1		04/05/16 13:17	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		04/05/16 13:17	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		04/05/16 13:17	79-34-5	
Tetrachloroethene	59.5	ug/L	1.0	1		04/05/16 13:17	127-18-4	
Tetrahydrofuran	ND	ug/L	10.0	1		04/05/16 13:17	109-99-9	
Toluene	ND	ug/L	1.0	1		04/05/16 13:17	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		04/05/16 13:17	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		04/05/16 13:17	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		04/05/16 13:17	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		04/05/16 13:17	79-00-5	
Trichloroethene	ND	ug/L	0.40	1		04/05/16 13:17	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		04/05/16 13:17	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	4.0	1		04/05/16 13:17	96-18-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/L	1.0	1		04/05/16 13:17	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1		04/05/16 13:17	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1		04/05/16 13:17	108-67-8	
Vinyl chloride	ND	ug/L	0.40	1		04/05/16 13:17	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		04/05/16 13:17	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		04/05/16 13:17	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		04/05/16 13:17	95-47-6	
Surrogates		-						
1,2-Dichloroethane-d4 (S)	104	%.	75-125	1		04/05/16 13:17	17060-07-0	
Toluene-d8 (S)	95	%.	75-125	1		04/05/16 13:17	2037-26-5	
4-Bromofluorobenzene (S)	111	%.	75-125	1		04/05/16 13:17	460-00-4	





Project: CRC- City of Rochester

Date: 04/06/2016 03:44 PM

Sample: AS-Effluent	Lab ID: 103	43231002	Collected: 03/30/1	16 16:00	Received:	03/31/16 12:15	Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qua
624 MSV	Analytical Met	hod: EPA 62	24					
Acetone	71.2	ug/L	20.0	1		04/05/16 14:4	6 67-64-1	
Allyl chloride	ND	ug/L	4.0	1		04/05/16 14:4	6 107-05-1	
Benzene	ND	ug/L	1.0	1		04/05/16 14:4	6 71-43-2	
Bromobenzene	ND	ug/L	1.0	1		04/05/16 14:4	6 108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		04/05/16 14:4	6 74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		04/05/16 14:4	6 75-27-4	
Bromoform	ND	ug/L	4.0	1		04/05/16 14:4	6 75-25-2	
Bromomethane	ND	ug/L	4.0	1		04/05/16 14:4	6 74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	1		04/05/16 14:4	6 78-93-3	
n-Butylbenzene	ND	ug/L	1.0	1		04/05/16 14:4		
sec-Butylbenzene	ND	ug/L	1.0	1		04/05/16 14:4		
ert-Butylbenzene	ND	ug/L	1.0	1		04/05/16 14:4		
Carbon tetrachloride	ND	ug/L	1.0	1		04/05/16 14:4		
Chlorobenzene	ND	ug/L	1.0	1		04/05/16 14:4		
Chloroethane	ND	•	1.0	1		04/05/16 14:4		
2-Chloroethylvinyl ether	ND ND	ug/L	10.0	1		04/05/16 14:4		c2
Chloroform	ND ND	ug/L	1.0	1				02
		ug/L				04/05/16 14:4		
Chloromethane	ND	ug/L	4.0	1		04/05/16 14:4		
2-Chlorotoluene	ND	ug/L	1.0	1		04/05/16 14:4		
-Chlorotoluene	ND	ug/L	1.0	1		04/05/16 14:4		
,2-Dibromo-3-chloropropane	ND	ug/L	4.0	1		04/05/16 14:4		
Dibromochloromethane	ND	ug/L	1.0	1		04/05/16 14:4		
,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		04/05/16 14:4		
Dibromomethane	ND	ug/L	4.0	1		04/05/16 14:4	6 74-95-3	
,2-Dichlorobenzene	ND	ug/L	1.0	1		04/05/16 14:4	6 95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		04/05/16 14:4	6 541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		04/05/16 14:4	6 106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		04/05/16 14:4	6 75-71-8	
,1-Dichloroethane	ND	ug/L	1.0	1		04/05/16 14:4	6 75-34-3	
,2-Dichloroethane	ND	ug/L	1.0	1		04/05/16 14:4	6 107-06-2	
,1-Dichloroethene	ND	ug/L	1.0	1		04/05/16 14:4	6 75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		04/05/16 14:4	6 156-59-2	
rans-1,2-Dichloroethene	ND	ug/L	1.0	1		04/05/16 14:4	6 156-60-5	
Dichlorofluoromethane	ND	ug/L	1.0	1		04/05/16 14:4		
.2-Dichloropropane	ND	ug/L	4.0	1		04/05/16 14:4		
,3-Dichloropropane	ND	ug/L	1.0	1		04/05/16 14:4		
2,2-Dichloropropane	ND	ug/L	4.0	1		04/05/16 14:4		
,1-Dichloropropene	ND	ug/L	1.0	1		04/05/16 14:4		
is-1,3-Dichloropropene	ND	ug/L	4.0	1		04/05/16 14:4		
rans-1,3-Dichloropropene	ND	•		1		04/05/16 14:4		
Diethyl ether (Ethyl ether)	ND ND	ug/L	4.0 4.0	1		04/05/16 14:4		
, , ,		ug/L		1				
Ethylbenzene	ND	ug/L	1.0			04/05/16 14:4		
lexachloro-1,3-butadiene	ND	ug/L	1.0	1		04/05/16 14:4		
sopropylbenzene (Cumene)	ND	ug/L	1.0	1		04/05/16 14:4		
o-Isopropyltoluene	ND	ug/L	1.0	1		04/05/16 14:4		
Methylene Chloride	ND	ug/L	4.0	1		04/05/16 14:4		L2
I-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		04/05/16 14:4	6 108-10-1	

### **REPORT OF LABORATORY ANALYSIS**

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Project: CRC- City of Rochester

Pace Project No.: 10343231

Date: 04/06/2016 03:44 PM

Sample: AS-Effluent	Lab ID: 103	43231002	Collected: 03/30/1	6 16:00	Received: 03/31/16 12:15	Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared Analyzed	CAS No. Q	)ua
624 MSV	Analytical Met	nod: EPA 62	24				
Methyl-tert-butyl ether	ND	ug/L	1.0	1	04/05/16 14:4	6 1634-04-4	
Naphthalene	ND	ug/L	4.0	1	04/05/16 14:4	6 91-20-3	
n-Propylbenzene	ND	ug/L	1.0	1	04/05/16 14:4	6 103-65-1	
Styrene	ND	ug/L	1.0	1	04/05/16 14:4	6 100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1	04/05/16 14:4	6 630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1	04/05/16 14:4	6 79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1	04/05/16 14:4	6 127-18-4	
Tetrahydrofuran	ND	ug/L	10.0	1	04/05/16 14:4	6 109-99-9	
Toluene	ND	ug/L	1.0	1	04/05/16 14:4	6 108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1	04/05/16 14:4	6 87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1	04/05/16 14:4	6 120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1	04/05/16 14:4	6 71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1	04/05/16 14:4	6 79-00-5	
Trichloroethene	ND	ug/L	0.40	1	04/05/16 14:4	6 79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1	04/05/16 14:4	6 75-69-4	
1,2,3-Trichloropropane	ND	ug/L	4.0	1	04/05/16 14:4	6 96-18-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/L	1.0	1	04/05/16 14:4	6 76-13-1	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1	04/05/16 14:4	6 95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1	04/05/16 14:4	6 108-67-8	
Vinyl chloride	ND	ug/L	0.40	1	04/05/16 14:4	6 75-01-4	
Xylene (Total)	ND	ug/L	3.0	1	04/05/16 14:4	6 1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1	04/05/16 14:4	6 179601-23-1	
o-Xylene	ND	ug/L	1.0	1	04/05/16 14:4	6 95-47-6	
Surrogates							
1,2-Dichloroethane-d4 (S)	103	%.	75-125	1	04/05/16 14:4	6 17060-07-0	
Toluene-d8 (S)	96	%.	75-125	1	04/05/16 14:4	6 2037-26-5	
4-Bromofluorobenzene (S)	105	%.	75-125	1	04/05/16 14:4	6 460-00-4	

(612)607-1700



### **QUALITY CONTROL DATA**

Project: CRC- City of Rochester

Pace Project No.: 10343231

Date: 04/06/2016 03:44 PM

QC Batch: MSV/35094 Analysis Method: EPA 624
QC Batch Method: EPA 624 Analysis Description: 624 MSV

Associated Lab Samples: 10343231001, 10343231002

METHOD BLANK: 2223939 Matrix: Water

Associated Lab Samples: 10343231001, 10343231002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND -	1.0	04/05/16 10:41	
1,1,1-Trichloroethane	ug/L	ND	1.0	04/05/16 10:41	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	04/05/16 10:41	
1,1,2-Trichloroethane	ug/L	ND	1.0	04/05/16 10:41	
1,1,2-Trichlorotrifluoroethane	ug/L	ND	1.0	04/05/16 10:41	
I,1-Dichloroethane	ug/L	ND	1.0	04/05/16 10:41	
I,1-Dichloroethene	ug/L	ND	1.0	04/05/16 10:41	
,1-Dichloropropene	ug/L	ND	1.0	04/05/16 10:41	
,2,3-Trichlorobenzene	ug/L	ND	1.0	04/05/16 10:41	
,2,3-Trichloropropane	ug/L	ND	4.0	04/05/16 10:41	
1,2,4-Trichlorobenzene	ug/L	ND	1.0	04/05/16 10:41	
,2,4-Trimethylbenzene	ug/L	ND	1.0	04/05/16 10:41	
,2-Dibromo-3-chloropropane	ug/L	ND	4.0	04/05/16 10:41	
,2-Dibromoethane (EDB)	ug/L	ND	1.0	04/05/16 10:41	
1,2-Dichlorobenzene	ug/L	ND	1.0	04/05/16 10:41	
,2-Dichloroethane	ug/L	ND	1.0	04/05/16 10:41	
,2-Dichloropropane	ug/L	ND	4.0	04/05/16 10:41	
,3,5-Trimethylbenzene	ug/L	ND	1.0	04/05/16 10:41	
,3-Dichlorobenzene	ug/L	ND	1.0	04/05/16 10:41	
,3-Dichloropropane	ug/L	ND	1.0	04/05/16 10:41	
,4-Dichlorobenzene	ug/L	ND	1.0	04/05/16 10:41	
2,2-Dichloropropane	ug/L	ND	4.0	04/05/16 10:41	
2-Butanone (MEK)	ug/L	ND	5.0	04/05/16 10:41	
2-Chloroethylvinyl ether	ug/L	ND	10.0	04/05/16 10:41	
2-Chlorotoluene	ug/L	ND	1.0	04/05/16 10:41	
I-Chlorotoluene	ug/L	ND	1.0	04/05/16 10:41	
I-Methyl-2-pentanone (MIBK)	ug/L	ND	5.0	04/05/16 10:41	
Acetone	ug/L	ND	20.0	04/05/16 10:41	
Allyl chloride	ug/L	ND	4.0	04/05/16 10:41	
Benzene	ug/L	ND	1.0	04/05/16 10:41	
Bromobenzene	ug/L	ND	1.0	04/05/16 10:41	
Bromochloromethane	ug/L	ND	1.0	04/05/16 10:41	
Bromodichloromethane	ug/L	ND	1.0	04/05/16 10:41	
Bromoform	ug/L	ND	4.0	04/05/16 10:41	
Bromomethane	ug/L	ND	4.0	04/05/16 10:41	
Carbon tetrachloride	ug/L	ND	1.0	04/05/16 10:41	
Chlorobenzene	ug/L	ND	1.0	04/05/16 10:41	
Chloroethane	ug/L	ND	1.0	04/05/16 10:41	
Chloroform	ug/L	ND	1.0	04/05/16 10:41	
Chloromethane	ug/L	ND	4.0	04/05/16 10:41	
sis-1,2-Dichloroethene	ug/L	ND	1.0	04/05/16 10:41	

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(612)607-1700



### **QUALITY CONTROL DATA**

Project: CRC- City of Rochester

Pace Project No.: 10343231

Date: 04/06/2016 03:44 PM

METHOD BLANK: 2223939 Matrix: Water

Associated Lab Samples: 10343231001, 10343231002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
cis-1,3-Dichloropropene	ug/L	ND	4.0	04/05/16 10:41	
Dibromochloromethane	ug/L	ND	1.0	04/05/16 10:41	
Dibromomethane	ug/L	ND	4.0	04/05/16 10:41	
Dichlorodifluoromethane	ug/L	ND	1.0	04/05/16 10:41	
Dichlorofluoromethane	ug/L	ND	1.0	04/05/16 10:41	
Diethyl ether (Ethyl ether)	ug/L	ND	4.0	04/05/16 10:41	
Ethylbenzene	ug/L	ND	1.0	04/05/16 10:41	
Hexachloro-1,3-butadiene	ug/L	ND	1.0	04/05/16 10:41	
sopropylbenzene (Cumene)	ug/L	ND	1.0	04/05/16 10:41	
m&p-Xylene	ug/L	ND	2.0	04/05/16 10:41	
Methyl-tert-butyl ether	ug/L	ND	1.0	04/05/16 10:41	
Methylene Chloride	ug/L	ND	4.0	04/05/16 10:41	
n-Butylbenzene	ug/L	ND	1.0	04/05/16 10:41	
n-Propylbenzene	ug/L	ND	1.0	04/05/16 10:41	
Naphthalene	ug/L	ND	4.0	04/05/16 10:41	
o-Xylene	ug/L	ND	1.0	04/05/16 10:41	
o-Isopropyltoluene	ug/L	ND	1.0	04/05/16 10:41	
sec-Butylbenzene	ug/L	ND	1.0	04/05/16 10:41	
Styrene	ug/L	ND	1.0	04/05/16 10:41	
tert-Butylbenzene	ug/L	ND	1.0	04/05/16 10:41	
Tetrachloroethene	ug/L	ND	1.0	04/05/16 10:41	
Tetrahydrofuran	ug/L	ND	10.0	04/05/16 10:41	
Toluene	ug/L	ND	1.0	04/05/16 10:41	
rans-1,2-Dichloroethene	ug/L	ND	1.0	04/05/16 10:41	
trans-1,3-Dichloropropene	ug/L	ND	4.0	04/05/16 10:41	
Trichloroethene	ug/L	ND	0.40	04/05/16 10:41	
Trichlorofluoromethane	ug/L	ND	1.0	04/05/16 10:41	
Vinyl chloride	ug/L	ND	0.40	04/05/16 10:41	
Xylene (Total)	ug/L	ND	3.0	04/05/16 10:41	
1,2-Dichloroethane-d4 (S)	%.	105	75-125	04/05/16 10:41	
4-Bromofluorobenzene (S)	%.	106	75-125	04/05/16 10:41	
Toluene-d8 (S)	%.	91	75-125	04/05/16 10:41	

LABORATORY CONTROL SAMPLE	& LCSD: 2223940		22	224569						
		Spike	LCS	LCSD	LCS	LCSD	% Rec		Max	
Parameter	Units	Conc.	Result	Result	% Rec	% Rec	Limits	RPD	RPD	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	20	19.9	18.2	100	91	75-126	9	20	
1,1,1-Trichloroethane	ug/L	20	21.0	17.4	105	87	72-125	19	20	
1,1,2,2-Tetrachloroethane	ug/L	20	21.9	20.6	110	103	68-125	6	20	
1,1,2-Trichloroethane	ug/L	20	20.0	19.4	100	97	75-125	3	20	
1,1,2-Trichlorotrifluoroethane	ug/L	20	18.4	14.4	92	72	66-132	24	20	R1
1,1-Dichloroethane	ug/L	20	18.2	15.7	91	78	68-126	15	20	
1,1-Dichloroethene	ug/L	20	16.3	13.9	81	69	67-127	16	20	
1,1-Dichloropropene	ug/L	20	19.9	16.7	100	84	71-126	18	20	

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Project: CRC- City of Rochester

Pace Project No.: 10343231

Date: 04/06/2016 03:44 PM

ABORATORY CONTROL SAMPLE (	& LCSD: 22239	-		24569						
_		Spike	LCS	LCSD	LCS	LCSD	% Rec		Max	
Parameter	Units	Conc.	Result	Result	% Rec	% Rec	Limits	RPD .	RPD .	Qualifier
,2,3-Trichlorobenzene	ug/L	20	18.9	17.8	95	89	63-132	6	20	
,2,3-Trichloropropane	ug/L	20	21.5	20.6	108	103	72-125	5	20	
,2,4-Trichlorobenzene	ug/L	20	18.3	16.0	92	80	59-135	14	20	
,2,4-Trimethylbenzene	ug/L	20	21.4	19.0	107	95	70-132	12	20	
,2-Dibromo-3-chloropropane	ug/L	50	44.7	42.7	89	85	58-130	4	20	
,2-Dibromoethane (EDB)	ug/L	20	19.7	18.7	98	94	75-125	5	20	
,2-Dichlorobenzene	ug/L	20	19.7	17.7	98	88	74-125	11	20	
,2-Dichloroethane	ug/L	20	21.5	19.3	107	97	71-125	11	20	
,2-Dichloropropane	ug/L	20	20.3	20.4	102	102	72-125	0	20	
,3,5-Trimethylbenzene	ug/L	20	21.4	18.9	107	94	73-125	13	20	
,3-Dichlorobenzene	ug/L	20	19.4	17.8	97	89	74-125	9	20	
,3-Dichloropropane	ug/L	20	20.2	18.8	101	94	75-125	7	20	
,4-Dichlorobenzene	ug/L	20	19.6	18.2	98	91	74-125	7	20	
,2-Dichloropropane	ug/L	20	23.4	17.9	117	89	64-138	27	20	R1
-Butanone (MEK)	ug/L	100	111	100	111	100	61-129	10	20	
-Chloroethylvinyl ether	ug/L	50	40.1	49.6	80	99	30-150	21	20	R1
-Chlorotoluene	ug/L	20	21.1	19.0	106	95	70-126	11	20	
-Chlorotoluene	ug/L	20	22.4	19.9	112	99	73-125	12	20	
-Methyl-2-pentanone (MIBK)	ug/L	100	124	121	124	121	63-135	3	20	
cetone	ug/L	100	99.3	99.6	99	100	66-150	0	20	
llyl chloride	ug/L	20	19.6	14.2	98	71	62-139	32	20	R1
enzene	ug/L	20	21.7	18.0	109	90	67-126	19	20	
romobenzene	ug/L	20	19.4	18.3	97	92	72-125	6	20	
romochloromethane	ug/L	20	21.0	17.5	105	87	73-125	18	20	
romodichloromethane	ug/L	20	21.5	21.8	108	109	71-126	1	20	
romoform	ug/L	20	19.3	18.8	96	94	64-130	2	20	
romomethane	ug/L	20	13.5	13.2	68	66	30-150	3	20	
arbon tetrachloride	ug/L	20	21.0	17.4	105	87	71-128	19	20	
hlorobenzene	ug/L	20	21.3	19.1	106	95	75-125	11	20	
hloroethane	ug/L	20	19.2	16.2	96	81	60-130	17	20	
hloroform	ug/L	20	20.3	17.1	102	85	73-125	17	20	
hloromethane	ug/L	20	20.0	18.3	100	91	49-146	9	20	
s-1,2-Dichloroethene	ug/L	20	19.7	15.8	99	79	68-131	22	20	R1
s-1,3-Dichloropropene	ug/L	20	18.8	22.5	94	113	73-125	18	20	
ibromochloromethane	ug/L	20	19.7	18.2	98	91	71-125	8	20	
ibromomethane	ug/L	20	20.0	21.6	100	108	71-131	8	20	
ichlorodifluoromethane	ug/L	20	20.0	17.4	100	87	56-145	14	20	
ichlorofluoromethane	ug/L	20	18.1	14.9	90	75	69-128	19	20	
iethyl ether (Ethyl ether)	ug/L	20	17.3	16.1	86	80	65-127	7	20	
thylbenzene	ug/L	20	21.9	19.9	109	99	75-125	10	20	
exachloro-1,3-butadiene	ug/L	20	18.5	15.7	93	79	62-145	17	20	
opropylbenzene (Cumene)	ug/L	20	20.6	18.6	103	93	75-133	11	20	
Ap-Xylene	ug/L	40	43.4	38.4	108	96	75-126	12	20	
lethyl-tert-butyl ether	ug/L	20	17.7	15.4	88	77	73-125	14	20	
lethylene Chloride	ug/L	20	17.5	12.5	87	63	72-128	33		L0,R1
-Butylbenzene	ug/L	20	21.7	18.4	109	92	67-131	17	20	•
-Propylbenzene	ug/L	20	23.1	20.0	115	100	70-128	14	20	

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Project: CRC- City of Rochester

Pace Project No.: 10343231

Date: 04/06/2016 03:44 PM

LABORATORY CONTROL SAMPLE	E & LCSD: 2223940		22	24569						
		Spike	LCS	LCSD	LCS	LCSD	% Rec		Max	
Parameter	Units	Conc.	Result	Result	% Rec	% Rec	Limits	RPD	RPD	Qualifiers
Naphthalene	ug/L	20	15.8	15.1	79	75	54-139	5	20	
o-Xylene	ug/L	20	18.0	16.0	90	80	75-125	11	20	
p-Isopropyltoluene	ug/L	20	20.4	17.1	102	85	71-128	18	20	
sec-Butylbenzene	ug/L	20	21.7	18.1	109	91	73-132	18	20	
Styrene	ug/L	20	22.5	20.4	113	102	75-128	10	20	
tert-Butylbenzene	ug/L	20	20.2	17.2	101	86	75-130	16	20	
Tetrachloroethene	ug/L	20	18.1	16.1	90	80	67-129	12	20	
Tetrahydrofuran	ug/L	200	230	249	115	124	73-137	8	20	
Toluene	ug/L	20	16.1	16.0	80	80	74-125	0	20	
trans-1,2-Dichloroethene	ug/L	20	18.0	13.4	90	67	65-128	29	20 R	21
trans-1,3-Dichloropropene	ug/L	20	21.9	20.3	109	101	75-125	7	20	
Trichloroethene	ug/L	20	19.7	18.3	98	92	72-125	7	20	
Trichlorofluoromethane	ug/L	20	19.7	16.2	98	81	70-132	19	20	
Vinyl chloride	ug/L	20	18.8	16.6	94	83	69-130	12	20	
Xylene (Total)	ug/L	60	61.4	54.4	102	91	75-125	12	20	
1,2-Dichloroethane-d4 (S)	%.				103	98	75-125			
4-Bromofluorobenzene (S)	%.				102	99	75-125			
Toluene-d8 (S)	%.				81	92	75-125			

MATRIX SPIKE SAMPLE:	2223957						
		10343231001	Spike	MS	MS	% Rec	
Parameter	Units	Result	Conc.	Result	% Rec	Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	20	20.4	102	55-147	
1,1,1-Trichloroethane	ug/L	ND	20	22.5	113	45-150	
1,1,2,2-Tetrachloroethane	ug/L	ND	20	21.7	108	52-143	
1,1,2-Trichloroethane	ug/L	ND	20	19.7	99	57-139	
1,1,2-Trichlorotrifluoroethane	ug/L	ND	20	23.8	119	40-150	
1,1-Dichloroethane	ug/L	ND	20	20.6	103	46-150	
1,1-Dichloroethene	ug/L	ND	20	19.9	99	42-150	
1,1-Dichloropropene	ug/L	ND	20	21.2	106	45-150	
1,2,3-Trichlorobenzene	ug/L	ND	20	17.8	89	51-142	
1,2,3-Trichloropropane	ug/L	ND	20	21.1	105	55-142	
1,2,4-Trichlorobenzene	ug/L	ND	20	16.7	83	50-143	
1,2,4-Trimethylbenzene	ug/L	ND	20	20.8	104	51-147	
1,2-Dibromo-3-chloropropane	ug/L	ND	50	43.8	88	44-149	
1,2-Dibromoethane (EDB)	ug/L	ND	20	19.9	99	60-138	
1,2-Dichlorobenzene	ug/L	ND	20	19.1	96	55-137	
1,2-Dichloroethane	ug/L	ND	20	20.2	101	50-139	
1,2-Dichloropropane	ug/L	ND	20	18.1	90	61-145	
1,3,5-Trimethylbenzene	ug/L	ND	20	20.9	104	34-150	
1,3-Dichlorobenzene	ug/L	ND	20	19.0	95	53-138	
1,3-Dichloropropane	ug/L	ND	20	19.4	97	58-139	
1,4-Dichlorobenzene	ug/L	ND	20	19.4	97	52-135	
2,2-Dichloropropane	ug/L	ND	20	23.1	115	30-150	
2-Butanone (MEK)	ug/L	ND	100	107	107	30-150	

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Project: CRC- City of Rochester

Pace Project No.: 10343231

Date: 04/06/2016 03:44 PM

MATRIX SPIKE SAMPLE:	2223957						
		10343231001	Spike	MS	MS	% Rec	
Parameter	Units	Result	Conc.	Result	% Rec	Limits	Qualifier
-Chloroethylvinyl ether	ug/L	ND	50	ND	2	30-125	P5
2-Chlorotoluene	ug/L	ND	20	21.3	106	52-146	
-Chlorotoluene	ug/L	ND	20	21.8	109	43-142	
-Methyl-2-pentanone (MIBK)	ug/L	ND	100	125	125	46-148	
Acetone	ug/L	38.9	100	137	98	44-150	
Allyl chloride	ug/L	ND	20	21.5	108	40-150	
Benzene	ug/L	ND	20	21.8	109	49-143	
Bromobenzene	ug/L	ND	20	19.4	97	58-139	
Bromochloromethane	ug/L	ND	20	19.6	98	53-144	
Bromodichloromethane	ug/L	ND	20	19.8	99	49-145	
Bromoform	ug/L	ND	20	18.9	94	42-142	
Bromomethane	ug/L	ND	20	14.9	75	30-150	
Carbon tetrachloride	ug/L	ND	20	23.2	116	30-150	
Chlorobenzene	ug/L	ND	20	21.2	106	57-137	
Chloroethane	ug/L	ND	20	21.2	106	39-150	
Chloroform	ug/L	ND	20	19.2	96	52-147	
Chloromethane	ug/L	ND	20	20.5	103	45-150	
is-1,2-Dichloroethene	ug/L	ND	20	19.1	96	44-149	
is-1,3-Dichloropropene	ug/L	ND	20	20.7	104	45-140	
Dibromochloromethane	ug/L	ND	20	19.9	100	49-144	
Dibromomethane	ug/L	ND	20	20.1	100	59-142	
Dichlorodifluoromethane	ug/L	ND	20	24.7	123	46-150	
Dichlorofluoromethane	ug/L	ND	20	20.1	100	53-150	
Diethyl ether (Ethyl ether)	ug/L	ND	20	18.5	93	45-146	
Ethylbenzene	ug/L	ND	20	21.6	108	49-141	
lexachloro-1,3-butadiene	ug/L	ND	20	18.9	95	33-150	
sopropylbenzene (Cumene)	ug/L	ND	20	21.2	106	50-150	
n&p-Xylene	ug/L	ND	40	43.3	108	44-150	
Methyl-tert-butyl ether	ug/L	ND	20	19.1	95	52-138	
Methylene Chloride	ug/L	ND	20	19.4	97	43-149	
i-Butylbenzene	ug/L	ND	20	21.5	107	46-150	
i-Propylbenzene	ug/L	ND	20	23.0	115	44-150	
Naphthalene	ug/L	ND	20	14.8	74	45-149	
-Xylene	ug/L	ND	20	18.0	90	48-146	
-Isopropyltoluene	ug/L	ND	20	20.0	100	54-147	
ec-Butylbenzene	ug/L	ND	20	21.4	107	51-150	
Styrene	ug/L	ND	20	22.1	110	47-149	
ert-Butylbenzene	ug/L	ND	20	19.8	99	49-149	
etrachloroethene	ug/L	59.5	20	77.5	90	30-150	
etrahydrofuran	ug/L	ND	200	207	104	52-150	
oluene	ug/L	ND	20	17.3	87	48-141	
ans-1,2-Dichloroethene	ug/L	ND	20	19.1	96	42-150	
ans-1,3-Dichloropropene	ug/L	ND	20	21.5	107	45-143	
richloroethene	ug/L	ND	20	20.9	104	38-150	
richlorofluoromethane	ug/L	ND	20	24.0	120	57-150	
/inyl chloride	ug/L	ND	20	19.8	99	43-150	
(ylene (Total)	ug/L	ND	60	61.3	102	45-149	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.



Project: CRC- City of Rochester

Pace Project No.: 10343231

Date: 04/06/2016 03:44 PM

MATRIX SPIKE SAMPLE:	2223957						
		10343231001	Spike	MS	MS	% Rec	
Parameter	Units	Result	Conc.	Result	% Rec	Limits	Qualifiers
1,2-Dichloroethane-d4 (S)	<u></u> %.				101	75-125	
4-Bromofluorobenzene (S)	%.				100	75-125	
Toluene-d8 (S)	%.				91	75-125	

		10343231002	Dup		Max	
Parameter	Units	Result	Result	RPD	RPD	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND ND	ND		30	
I,1,1-Trichloroethane	ug/L	ND	ND		30	
I,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	
I,1-Dichloroethane	ug/L	ND	ND		30	
I,1-Dichloroethene	ug/L	ND	ND		30	
I,1-Dichloropropene	ug/L	ND	ND		30	
,2,3-Trichlorobenzene	ug/L	ND	ND		30	
,2,3-Trichloropropane	ug/L	ND	ND		30	
,2,4-Trichlorobenzene	ug/L	ND	ND		30	
,2,4-Trimethylbenzene	ug/L	ND	ND		30	
,2-Dibromo-3-chloropropane	ug/L	ND	ND		30	
,2-Dibromoethane (EDB)	ug/L	ND	ND		30	
,2-Dichlorobenzene	ug/L	ND	ND		30	
,2-Dichloroethane	ug/L	ND	ND		30	
,2-Dichloropropane	ug/L	ND	ND		30	
,3,5-Trimethylbenzene	ug/L	ND	ND		30	
,3-Dichlorobenzene	ug/L	ND	ND		30	
,3-Dichloropropane	ug/L	ND	ND		30	
,4-Dichlorobenzene	ug/L	ND	ND		30	
2,2-Dichloropropane	ug/L	ND	ND		30	
P-Butanone (MEK)	ug/L	ND	ND		30	
2-Chloroethylvinyl ether	ug/L	ND	ND		30	
2-Chlorotoluene	ug/L	ND	ND		30	
l-Chlorotoluene	ug/L	ND	ND		30	
I-Methyl-2-pentanone (MIBK)	ug/L	ND	ND		30	
Acetone	ug/L	71.2	69.6	2	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	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

(612)607-1700



### **QUALITY CONTROL DATA**

Project: CRC- City of Rochester

Pace Project No.: 10343231

Date: 04/06/2016 03:44 PM

SAMPLE DUPLICATE: 2223958						
		10343231002	Dup		Max	
Parameter	Units	Result	Result	RPD	RPD	Qualifiers
Chloroform	ug/L		ND		30	
Chloromethane	ug/L	ND	.74J		30	
cis-1,2-Dichloroethene	ug/L	ND	ND		30	
cis-1,3-Dichloropropene	ug/L	ND	ND		30	
Dibromochloromethane	ug/L	ND	ND		30	
Dibromomethane	ug/L	ND	ND		30	
Dichlorodifluoromethane	ug/L	ND	ND		30	
Dichlorofluoromethane	ug/L	ND	ND		30	
Diethyl ether (Ethyl ether)	ug/L	ND	ND		30	
Ethylbenzene	ug/L	ND	ND		30	
Hexachloro-1,3-butadiene	ug/L	ND	ND		30	
Isopropylbenzene (Cumene)	ug/L	ND	ND		30	
m&p-Xylene	ug/L	ND	ND		30	
Methyl-tert-butyl ether	ug/L	ND	ND		30	
Methylene Chloride	ug/L	ND	ND		30	
n-Butylbenzene	ug/L	ND	ND		30	
n-Propylbenzene	ug/L	ND	ND		30	
Naphthalene	ug/L	ND	ND		30	
o-Xylene	ug/L	ND	ND		30	
p-Isopropyltoluene	ug/L	ND	ND		30	
sec-Butylbenzene	ug/L	ND	ND		30	
Styrene	ug/L	ND	ND		30	
tert-Butylbenzene	ug/L	ND	ND		30	
Tetrachloroethene	ug/L	ND	ND		30	
Tetrahydrofuran	ug/L	ND	ND		30	
Toluene	ug/L	ND	.39J		30	
trans-1,2-Dichloroethene	ug/L	ND	ND		30	
trans-1,3-Dichloropropene	ug/L	ND	ND		30	
Trichloroethene	ug/L	ND	ND		30	
Trichlorofluoromethane	ug/L	ND	ND		30	
Vinyl chloride	ug/L	ND	ND		30	
Xylene (Total)	ug/L	ND	ND		30	
1,2-Dichloroethane-d4 (S)	%.	103	103	0		
4-Bromofluorobenzene (S)	%.	105	104	1		
Toluene-d8 (S)	%.	96	92	3		

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.



### **QUALIFIERS**

Project: CRC- City of Rochester

Pace Project No.: 10343231

### **DEFINITIONS**

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

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.

PQL - Practical Quantitation Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

**DUP - Sample Duplicate** 

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

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

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

TNI - The NELAC Institute.

### **BATCH QUALIFIERS**

Batch: MSV/35094

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

### **ANALYTE QUALIFIERS**

Date: 04/06/2016 03:44 PM

- LO 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.
- P5 The EPA or method required sample preservation degrades this compound, therefore acceptable recoveries may not be achieved in sample matrix spikes.
- R1 RPD value was outside control limits.
- c2 Acid preservation may not be appropriate for the analysis of 2-Chloroethylvinyl ether.





### **QUALITY CONTROL DATA CROSS REFERENCE TABLE**

Project: CRC- City of Rochester

Pace Project No.: 10343231

Date: 04/06/2016 03:44 PM

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10343231001	AS-Influent	EPA 624	MSV/35094		
10343231002	AS-Effluent	EPA 624	MSV/35094		

# CHAIN-OF-CUSTODY / Analytical Request Document

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

Pace Analytical www.pacelabs.com

Pace Project No./ Lab I.D. DRINKING WATER (N/X) F-ALL-Q-020rev.07, 15-May-2007 SAMPLE CONDITIONS 2022848 634323 OTHER 3 S 20  $(N/\lambda)$ Sealed Cooler Custody Received on Ice (Y/N) GROUND WATER Residual Chlorine (Y/N) % 7 O° ni qmaT Page: REGULATORY AGENCY RCRA 3.8-412:15 Requested Analysis Filtered (Y/N) STATE Site Location NPDES 2]]sr[[2 DATE UST DATE Signed (MM/DD/YY): ACCEPTED BY / AFFILIATION tru Braen Attention Sharan Paradise **↓ tesT sisylsnA** 1 N /A Dwssell Other Methanol 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 Preservatives Na₂S₂O₃ Reference:
Pace Profile #: 3 Z. ИаОН Shortage HCI Invoice Information; ^EONH Company Name: [‡]OS[₹]H Section C Unpreserved Address: Pace Quote TIME # OF CONTAINERS 5 60 SAMPLER NAME AND SIGNATURE PRINT Name of SAMPLER: SAMPLE TEMP AT COLLECTION SIGNATURE of SAMPLER: Report To a Kuck @landmarkenv.com DATE inject Name: CYC - City of Rocheste 7111 TIME COMPOSITE END/GRAB DATE COLLECTED RELINQUISHED BY / AFFILIATION 6 330 W 15:30 6 3/30/16/16/06 TIME COMPOSITE DATE Section B Required Project Information: Email To: 9 Kuck@ Landmakehvica coder No. (G=GRAB C=COMP) **34YT 3J9MAS** 5 ¥ (see valid codes to left) MATRIX CODE Project Number ORIGINAL Copy To: Matrix Codes MATRIX / CODE Drinking Water Water Waste Waste Waste Worduct Soli/Solid Oil Whipe Air Air Tissue Other Gritannenta Numor ADDITIONAL COMMENTS ナ 5 5 flast (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE ころめ andmark SAMPLE ID Requested Due Date/TAT: Required Client Information Section A Required Client Information: Section D company: Page 18 of 19 # MƏLI 11 C) ဖ œ 6

## Pace Analytical*

### Document Name:

### Sample Condition Upon Receipt Form

Document No.: F-MN-L-213-rev.15

Document Revised: 05Jan2016 Page 1 of 1

Issuing Authority: Pace Minnesota Quality Office

Sample Condition Upon Receipt	Client Name:				Project	#: \[ \UO# : 10343231 \]
•	La	ndening		•		
Courier:	Fed Ex	UPS [	USPS		Client	
Commercial	Pace	☐SpeeDee [	Other:_		<u> </u>	10343231
Tracking Number:				<del></del>		
Custody Seal on Cod	oler/Box Present?	Yes No		Seals Int	tact?	Yes Optional: Proj. Due Date: Proj. Name:
Packing Material:	Bubble Wrap	Bubble Bags	□Non	е 🔲	Other:	Temp Blank? Tes No
Thermometer Used:	151401163 151401164	☐B88A912167504 ☐B88A014331009	Тур	e of Ice:	We	t Blue None Samples on ice, cooling process has begun
Cooler Temp Read (	rc): 4.8	Cooler Temp Corre	ected (°C)	· 4.	ප	Biological Tissue Frozen? Yes No
Temp should be above		Correction Facto				e and Initials of Person Examining Contents: 3-31-16/16
USDA Regulated Soil				.D. 47. C	A 51 CA	ID IA Did consolve estate As Francis Francis and Assessment States
Did samples originate i			ates: AL, A	λ <b>Κ, Α</b> Ζ, C	A, FL, GA,	ID, LA. Did samples originate from a foreign source (internationally, INo including Hawaii and Puerto Rico)?
			lated Soil	Checkli	st (F-MN-	Q-338) and include with SCUR/COC paperwork.
						COMMENTS:
Chain of Custody Pre	sent?		Yes	□No	□n/a	1.
Chain of Custody Fille	ed Out?		Yes	∏No	□n/a	2.
Chain of Custody Reli	inquished?		Yes	∐No	□N/A	3.
Sampler Name and/o	or Signature on COC?		Yes	□No	□N/A	4.
Samples Arrived with	in Hold Time?		Yes	□No	□N/A	5.
Short Hold Time Ana	lysis (<72 hr)?	3316167	Yes		□N/A	6.
Rush Turn Around Ti	me Requested?		Yes	MO	_ □N/A	7.
Sufficient Volume?			Ves	□No	□N/A	8.
Correct Containers U	sed?		Yes	□No	□N/A	9.
-Pace Containers l	Jsed?		Yes	∏No	□N/A	
Containers Intact?	· · · · · · · · · · · · · · · · · · ·		Yes	□No	□N/A	10.
Filtered Volume Rece	eived for Dissolved Te	sts?	□Yes	□No	□ZN/A	11. Note if sediment is visible in the dissolved container
Sample Labels Match	COC?		Yes	□No	□N/A	12.
-Includes Date/Tin	ne/ID/Analysis Mat	rix: UT				
All containers needin	g acid/base preserva	tion have been		<u> </u>	——·	13. ☐HNO₃ ☐H₂SO₄ ☐NaOH ☐HCl
checked? All containers needin	g preservation are fo	und to be in	∐Yes	∐No	<u>M</u> 7A	Sample #
compliance with EPA	recommendation?		_	_	/	
(HNO ₃ , H ₂ SO ₄ , HCl<2; Exceptions: (OA), Col			Yes	□No	N/A	Initial when Lot # of added
DRO/8015 (water) De			<b>□</b> Yes	□No	□N/A	completed: preservative:
Headspace in VOA Vi	als ( >6mm)?		□Yes	No	□N/A	14.
Trip Blank Present?	•		∐Yes	No	□n/a	15.
Trip Blank Custody Se	eals Present?		∐Yes	□No	,⊠N/A	
Pace Trip Blank Lot #	(if purchased):					
CLIENT N	IOTIFICATION/RESC	LUTION				Field Data Required? Yes No
Person Contacted:						Date/Time:
Comments/Resoluti	on:					
Project Ma	anager Review:	***	1			<b>Date:</b> 3/31/16

Project Manager Review: Date: 3/31/16

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).





April 25, 2016

Aaron Kuck Landmark Environmenatl 2042 W 98th St. Bloomingotn, MN 55431

RE: Project: CrC

Pace Project No.: 10345507

### Dear Aaron Kuck:

Enclosed are the analytical results for sample(s) received by the laboratory on April 21, 2016. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

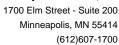
If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Oyeyemi Odujole oyeyemi.odujole@pacelabs.com Project Manager

**Enclosures** 







### **CERTIFICATIONS**

Project: CrC Pace Project No.: 10345507

### **Minnesota Certification IDs**

1700 Elm Street SE Suite 200, Minneapolis, MN 55414

525 N 8th Street, Salina, KS 67401 A2LA Certification #: 2926.01 Alaska Certification #: UST-078 Alaska Certification #MN00064 Alabama Certification #40770 Arizona Certification #: AZ-0014 Arkansas Certification #: 88-0680 California Certification #: 01155CA Colorado Certification #Pace Connecticut Certification #: PH-0256 EPA Region 8 Certification #: 8TMS-L

Florida/NELAP Certification #: E87605 Guam Certification #:14-008r Georgia Certification #: 959 Georgia EPD #: Pace

Idaho Certification #: MN00064 Hawaii Certification #MN00064 Illinois Certification #: 200011 Indiana Certification#C-MN-01 Iowa Certification #: 368 Kansas Certification #: E-10167

Kentucky Dept of Envi. Protection - DW #90062 Kentucký Dept of Envi. Protection - WW #:90062

Louisiana DEQ Certification #: 3086 Louisiana DHH #: LA140001 Maine Certification #: 2013011 Maryland Certification #: 322 Michigan DEPH Certification #: 9909 Minnesota Certification #: 027-053-137 Mississippi Certification #: Pace Montana Certification #: MT0092 Nevada Certification #: MN_00064 Nebraska Certification #: Pace New Jersey Certification #: MN-002 New York Certification #: 11647 North Carolina Certification #: 530 North Carolina State Public Health #: 27700

North Dakota Certification #: R-036

Ohio EPA #: 4150 Ohio VAP Certification #: CL101 Oklahoma Certification #: 9507 Oregon Certification #: MN200001 Oregon Certification #: MN300001 Pennsylvania Certification #: 68-00563 Puerto Rico Certification

Saipan (CNMI) #:MP0003 South Carolina #:74003001 Texas Certification #: T104704192 Tennessee Certification #: 02818 Utah Certification #: MN000642013-4 Virginia DGS Certification #: 251 Virginia/VELAP Certification #: Pace Washington Certification #: C486 West Virginia Certification #: 382 West Virginia DHHR #:9952C Wisconsin Certification #: 999407970





### **SAMPLE SUMMARY**

Project: CrC
Pace Project No.: 10345507

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10345507001	AS-Influent	Water	04/20/16 02:15	04/21/16 09:35
10345507002	AS-Effluent	Water	04/20/16 02:30	04/21/16 09:35

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



### **SAMPLE ANALYTE COUNT**

Project: CrC
Pace Project No.: 10345507

Lab ID	Sample ID	Method	Analysts	Analytes Reported
10345507001	AS-Influent	EPA 624	DJB	73
10345507002	AS-Effluent	EPA 624	DJB	73

(612)607-1700



### **ANALYTICAL RESULTS**

Project: CrC
Pace Project No.: 10345507

Date: 04/25/2016 04:19 PM

Sample: AS-Influent	Lab ID: 103	45507001	Collected: 04/20/1	6 02:15	Received:	04/21/16 09:35	Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qua
624 MSV	Analytical Meth	nod: EPA 62	24					
Acetone	53.9	ug/L	20.0	1		04/22/16 17:5	9 67-64-1	
Allyl chloride	ND	ug/L	4.0	1		04/22/16 17:5	9 107-05-1	
Benzene	ND	ug/L	1.0	1		04/22/16 17:5	9 71-43-2	
Bromobenzene	ND	ug/L	1.0	1		04/22/16 17:5	9 108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		04/22/16 17:5	9 74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		04/22/16 17:5	9 75-27-4	
Bromoform	ND	ug/L	4.0	1		04/22/16 17:5	9 75-25-2	
Bromomethane	ND	ug/L	4.0	1		04/22/16 17:5	9 74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	1		04/22/16 17:5	9 78-93-3	
n-Butylbenzene	ND	ug/L	1.0	1		04/22/16 17:5	9 104-51-8	
sec-Butylbenzene	ND	ug/L	1.0	1		04/22/16 17:5		
tert-Butylbenzene	ND	ug/L	1.0	1		04/22/16 17:5		
Carbon tetrachloride	ND	ug/L	1.0	1		04/22/16 17:5		
Chlorobenzene	ND	ug/L	1.0	1		04/22/16 17:5	9 108-90-7	
Chloroethane	ND	ug/L	1.0	1		04/22/16 17:5		
2-Chloroethylvinyl ether	ND	ug/L	10.0	1		04/22/16 17:5		P5,c2
Chloroform	ND	ug/L	1.0	1		04/22/16 17:5		1 0,02
Chloromethane	ND	ug/L	4.0	1		04/22/16 17:5		CH,L3 M0
2-Chlorotoluene	ND	ug/L	1.0	1		04/22/16 17:5	9 95-49-8	1110
4-Chlorotoluene	ND	ug/L	1.0	1		04/22/16 17:5		
1,2-Dibromo-3-chloropropane	ND	ug/L	4.0	1		04/22/16 17:5		
Dibromochloromethane	ND	ug/L	1.0	1		04/22/16 17:5		
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		04/22/16 17:5		
Dibromomethane	ND	ug/L	4.0	1		04/22/16 17:5		
1,2-Dichlorobenzene	ND	ug/L	1.0	1		04/22/16 17:5		
1,3-Dichlorobenzene	ND	ug/L	1.0	1		04/22/16 17:5		
1,4-Dichlorobenzene	ND ND	ug/L	1.0	1		04/22/16 17:5		
Dichlorodifluoromethane	ND ND	•	1.0	1		04/22/16 17:5		
		ug/L						
1,1-Dichloroethane	ND	ug/L	1.0	1		04/22/16 17:5		
1,2-Dichloroethane	ND	ug/L	1.0	1		04/22/16 17:5		
1,1-Dichloroethene	ND	ug/L	1.0	1		04/22/16 17:5		
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		04/22/16 17:5		
rans-1,2-Dichloroethene	ND	ug/L	1.0	1		04/22/16 17:5		
Dichlorofluoromethane	ND	ug/L	1.0	1		04/22/16 17:5		
1,2-Dichloropropane	ND	ug/L	4.0	1		04/22/16 17:5		
1,3-Dichloropropane	ND	ug/L	1.0	1		04/22/16 17:5		
2,2-Dichloropropane	ND	ug/L	4.0	1		04/22/16 17:5		
1,1-Dichloropropene	ND	ug/L	1.0	1		04/22/16 17:5		
cis-1,3-Dichloropropene	ND	ug/L	4.0	1			9 10061-01-5	
rans-1,3-Dichloropropene	ND	ug/L	4.0	1			9 10061-02-6	
Diethyl ether (Ethyl ether)	ND	ug/L	4.0	1		04/22/16 17:5	9 60-29-7	
Ethylbenzene	ND	ug/L	1.0	1		04/22/16 17:5	9 100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		04/22/16 17:5	9 87-68-3	
sopropylbenzene (Cumene)	ND	ug/L	1.0	1		04/22/16 17:5	9 98-82-8	
p-Isopropyltoluene	ND	ug/L	1.0	1		04/22/16 17:5		
Methylene Chloride	ND	ug/L	4.0	1		04/22/16 17:5		





Project: CrC
Pace Project No.: 10345507

Date: 04/25/2016 04:19 PM

Sample: AS-Influent	Lab ID: 103	45507001	Collected: 04/20/1	16 02:15	Received: 04/21/16 09:35	Matrix: Water
Parameters	Results	Units	Report Limit	DF	Prepared Analyzed	CAS No. Qu
624 MSV	Analytical Meth	nod: EPA 62	24			
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1	04/22/16 17	:59 108-10-1
Methyl-tert-butyl ether	ND	ug/L	1.0	1	04/22/16 17	:59 1634-04-4
Naphthalene	ND	ug/L	4.0	1	04/22/16 17	:59 91-20-3
n-Propylbenzene	ND	ug/L	1.0	1	04/22/16 17	:59 103-65-1
Styrene	ND	ug/L	1.0	1	04/22/16 17	:59 100-42-5
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1	04/22/16 17	:59 630-20-6
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1	04/22/16 17	:59 79-34-5
Tetrachloroethene	106	ug/L	1.0	1	04/22/16 17	:59 127-18-4
Tetrahydrofuran	ND	ug/L	40.0	1	04/22/16 17	:59 109-99-9
Toluene	ND	ug/L	1.0	1	04/22/16 17	:59 108-88-3
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1	04/22/16 17	:59 87-61-6
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1	04/22/16 17	:59 120-82-1
1,1,1-Trichloroethane	ND	ug/L	1.0	1	04/22/16 17	:59 71-55-6
1,1,2-Trichloroethane	ND	ug/L	1.0	1	04/22/16 17	:59 79-00-5
Trichloroethene	ND	ug/L	0.40	1	04/22/16 17	:59 79-01-6
Trichlorofluoromethane	ND	ug/L	1.0	1	04/22/16 17	:59 75-69-4
1,2,3-Trichloropropane	ND	ug/L	4.0	1	04/22/16 17	:59 96-18-4
1,1,2-Trichlorotrifluoroethane	ND	ug/L	1.0	1	04/22/16 17	:59 76-13-1
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1	04/22/16 17	:59 95-63-6
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1	04/22/16 17	:59 108-67-8
Vinyl chloride	ND	ug/L	0.40	1	04/22/16 17	:59 75-01-4
Xylene (Total)	ND	ug/L	3.0	1		:59 1330-20-7
m&p-Xylene	ND	ug/L	2.0	1		:59 179601-23-1
o-Xylene	ND	ug/L	1.0	1		:59 95-47-6
Surrogates	_	- 3				
1,2-Dichloroethane-d4 (S)	112	%.	75-125	1	04/22/16 17	:59 17060-07-0
Toluene-d8 (S)	93	%.	75-125	1	04/22/16 17	:59 2037-26-5
4-Bromofluorobenzene (S)	100	%.	75-125	1	04/22/16 17	:59 460-00-4



# **ANALYTICAL RESULTS**

Project: CrC
Pace Project No.: 10345507

Date: 04/25/2016 04:19 PM

Sample: AS-Effluent	Lab ID: 103	45507002	Collected: 04/20/1	16 02:30	Received: (	04/21/16 09:35	Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
624 MSV	Analytical Met	nod: EPA 62	24					
Acetone	121	ug/L	20.0	1		04/22/16 19:33	8 67-64-1	
Allyl chloride	ND	ug/L	4.0	1		04/22/16 19:33	107-05-1	
Benzene	ND	ug/L	1.0	1		04/22/16 19:33	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		04/22/16 19:33	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		04/22/16 19:33	3 74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		04/22/16 19:33	3 75-27-4	
Bromoform	ND	ug/L	4.0	1		04/22/16 19:33	75-25-2	
Bromomethane	ND	ug/L	4.0	1		04/22/16 19:33	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	1		04/22/16 19:33	78-93-3	
n-Butylbenzene	ND	ug/L	1.0	1		04/22/16 19:33	3 104-51-8	
sec-Butylbenzene	ND	ug/L	1.0	1		04/22/16 19:33	3 135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	1		04/22/16 19:33	98-06-6	
Carbon tetrachloride	ND	ug/L	1.0	1		04/22/16 19:33	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		04/22/16 19:33	108-90-7	
Chloroethane	ND	ug/L	1.0	1		04/22/16 19:33	3 75-00-3	
2-Chloroethylvinyl ether	ND	ug/L	10.0	1		04/22/16 19:33		c2
Chloroform	ND	ug/L	1.0	1		04/22/16 19:33		
Chloromethane	ND	ug/L	4.0	1		04/22/16 19:33		L3
2-Chlorotoluene	ND	ug/L	1.0	1		04/22/16 19:33		
4-Chlorotoluene	ND	ug/L	1.0	1		04/22/16 19:33		
1,2-Dibromo-3-chloropropane	ND	ug/L	4.0	1		04/22/16 19:33		
Dibromochloromethane	ND	ug/L	1.0	1		04/22/16 19:33		
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		04/22/16 19:33		
Dibromomethane	ND	ug/L	4.0	1		04/22/16 19:33		
1,2-Dichlorobenzene	ND	ug/L	1.0	1		04/22/16 19:33		
1,3-Dichlorobenzene	ND	ug/L	1.0	1		04/22/16 19:33		
1,4-Dichlorobenzene	ND ND	ug/L	1.0	1		04/22/16 19:33		
Dichlorodifluoromethane	ND	ug/L	1.0	1		04/22/16 19:33		
1,1-Dichloroethane	ND	ug/L	1.0	1		04/22/16 19:33		
1,2-Dichloroethane	ND ND	ug/L ug/L	1.0	1		04/22/16 19:33		
		•						
1,1-Dichloroethene cis-1,2-Dichloroethene	ND ND	ug/L	1.0 1.0	1 1		04/22/16 19:33		
•		ug/L		1		04/22/16 19:33 04/22/16 19:33		
trans-1,2-Dichloroethene	ND	ug/L	1.0					
Dichlorofluoromethane	ND	ug/L	1.0	1		04/22/16 19:33		
1,2-Dichloropropane	ND	ug/L	4.0	1		04/22/16 19:33		
1,3-Dichloropropane	ND	ug/L	1.0	1		04/22/16 19:33		
2,2-Dichloropropane	ND	ug/L	4.0	1		04/22/16 19:33		
1,1-Dichloropropene	ND	ug/L	1.0	1		04/22/16 19:33		
cis-1,3-Dichloropropene	ND	ug/L	4.0	1		04/22/16 19:33		
trans-1,3-Dichloropropene	ND	ug/L	4.0	1		04/22/16 19:33		
Diethyl ether (Ethyl ether)	ND	ug/L	4.0	1		04/22/16 19:33		
Ethylbenzene	ND	ug/L	1.0	1		04/22/16 19:33		
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		04/22/16 19:33	8 87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		04/22/16 19:33	98-82-8	
p-Isopropyltoluene	ND	ug/L	1.0	1		04/22/16 19:33	99-87-6	
Methylene Chloride	ND	ug/L	4.0	1		04/22/16 19:33	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		04/22/16 19:33	3 108-10-1	

# **REPORT OF LABORATORY ANALYSIS**

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Project: CrC
Pace Project No.: 10345507

Date: 04/25/2016 04:19 PM

Sample: AS-Effluent	Lab ID: 103	45507002	Collected: 04/20/1	16 02:30	Received: 04/21/16 09:35	Matrix: Water
Parameters	Results	Units	Report Limit	DF	Prepared Analyzed	CAS No. Qu
624 MSV	Analytical Meth	nod: EPA 62	24			
Methyl-tert-butyl ether	ND	ug/L	1.0	1	04/22/16 19:	33 1634-04-4
Naphthalene	ND	ug/L	4.0	1	04/22/16 19:	33 91-20-3
n-Propylbenzene	ND	ug/L	1.0	1	04/22/16 19:	33 103-65-1
Styrene	ND	ug/L	1.0	1	04/22/16 19:	33 100-42-5
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1	04/22/16 19:	33 630-20-6
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1	04/22/16 19:	33 79-34-5
Tetrachloroethene	ND	ug/L	1.0	1	04/22/16 19:	33 127-18-4
Tetrahydrofuran	ND	ug/L	40.0	1	04/22/16 19:	33 109-99-9
Toluene	ND	ug/L	1.0	1	04/22/16 19:	33 108-88-3
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1	04/22/16 19:	33 87-61-6
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1	04/22/16 19:	33 120-82-1
1,1,1-Trichloroethane	ND	ug/L	1.0	1	04/22/16 19:	33 71-55-6
1,1,2-Trichloroethane	ND	ug/L	1.0	1	04/22/16 19:	33 79-00-5
Trichloroethene	ND	ug/L	0.40	1	04/22/16 19:	33 79-01-6
Trichlorofluoromethane	ND	ug/L	1.0	1	04/22/16 19:	33 75-69-4
1,2,3-Trichloropropane	ND	ug/L	4.0	1	04/22/16 19:	33 96-18-4
1,1,2-Trichlorotrifluoroethane	ND	ug/L	1.0	1	04/22/16 19:	33 76-13-1
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1	04/22/16 19:	33 95-63-6
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1	04/22/16 19:	33 108-67-8
Vinyl chloride	ND	ug/L	0.40	1	04/22/16 19:	33 75-01-4
Xylene (Total)	ND	ug/L	3.0	1	04/22/16 19:	33 1330-20-7
m&p-Xylene	ND	ug/L	2.0	1	04/22/16 19:	33 179601-23-1
o-Xylene	ND	ug/L	1.0	1	04/22/16 19:	33 95-47-6
Surrogates						
1,2-Dichloroethane-d4 (S)	110	%.	75-125	1		33 17060-07-0
Toluene-d8 (S)	94	%.	75-125	1		33 2037-26-5
4-Bromofluorobenzene (S)	105	%.	75-125	1	04/22/16 19:	33 460-00-4



# **QUALITY CONTROL DATA**

Project: CrC
Pace Project No.: 10345507

Date: 04/25/2016 04:19 PM

QC Batch: MSV/35304 Analysis Method: EPA 624
QC Batch Method: EPA 624 Analysis Description: 624 MSV

Associated Lab Samples: 10345507001, 10345507002

METHOD BLANK: 2238590 Matrix: Water

Associated Lab Samples: 10345507001, 10345507002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	1.0	04/22/16 13:15	
1,1,1-Trichloroethane	ug/L	ND	1.0	04/22/16 13:15	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	04/22/16 13:15	
1,1,2-Trichloroethane	ug/L	ND	1.0	04/22/16 13:15	
1,1,2-Trichlorotrifluoroethane	ug/L	ND	1.0	04/22/16 13:15	
1,1-Dichloroethane	ug/L	ND	1.0	04/22/16 13:15	
1,1-Dichloroethene	ug/L	ND	1.0	04/22/16 13:15	
1,1-Dichloropropene	ug/L	ND	1.0	04/22/16 13:15	
1,2,3-Trichlorobenzene	ug/L	ND	1.0	04/22/16 13:15	
1,2,3-Trichloropropane	ug/L	ND	4.0	04/22/16 13:15	
1,2,4-Trichlorobenzene	ug/L	ND	1.0	04/22/16 13:15	
1,2,4-Trimethylbenzene	ug/L	ND	1.0	04/22/16 13:15	
1,2-Dibromo-3-chloropropane	ug/L	ND	4.0	04/22/16 13:15	
1,2-Dibromoethane (EDB)	ug/L	ND	1.0	04/22/16 13:15	
1,2-Dichlorobenzene	ug/L	ND	1.0	04/22/16 13:15	
1,2-Dichloroethane	ug/L	ND	1.0	04/22/16 13:15	
1,2-Dichloropropane	ug/L	ND	4.0	04/22/16 13:15	
1,3,5-Trimethylbenzene	ug/L	ND	1.0	04/22/16 13:15	
1,3-Dichlorobenzene	ug/L	ND	1.0	04/22/16 13:15	
1,3-Dichloropropane	ug/L	ND	1.0	04/22/16 13:15	
1,4-Dichlorobenzene	ug/L	ND	1.0	04/22/16 13:15	
2,2-Dichloropropane	ug/L	ND	4.0	04/22/16 13:15	
2-Butanone (MEK)	ug/L	ND	5.0	04/22/16 13:15	
2-Chloroethylvinyl ether	ug/L	ND	10.0	04/22/16 13:15	
2-Chlorotoluene	ug/L	ND	1.0	04/22/16 13:15	
4-Chlorotoluene	ug/L	ND	1.0	04/22/16 13:15	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	5.0	04/22/16 13:15	
Acetone	ug/L	ND	20.0	04/22/16 13:15	
Allyl chloride	ug/L	ND	4.0	04/22/16 13:15	
Benzene	ug/L	ND	1.0	04/22/16 13:15	
Bromobenzene	ug/L	ND	1.0	04/22/16 13:15	
Bromochloromethane	ug/L	ND	1.0	04/22/16 13:15	
Bromodichloromethane	ug/L	ND	1.0	04/22/16 13:15	
Bromoform	ug/L	ND	4.0	04/22/16 13:15	
Bromomethane	ug/L	ND	4.0	04/22/16 13:15	
Carbon tetrachloride	ug/L	ND	1.0	04/22/16 13:15	
Chlorobenzene	ug/L	ND	1.0	04/22/16 13:15	
Chloroethane	ug/L	ND	1.0	04/22/16 13:15	
Chloroform	ug/L	ND	1.0	04/22/16 13:15	
Chloromethane	ug/L	ND	4.0	04/22/16 13:15	
cis-1,2-Dichloroethene	ug/L	ND	1.0	04/22/16 13:15	

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# **QUALITY CONTROL DATA**

Project: CrC
Pace Project No.: 10345507

Date: 04/25/2016 04:19 PM

METHOD BLANK: 2238590 Matrix: Water

Associated Lab Samples: 10345507001, 10345507002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
cis-1,3-Dichloropropene	ug/L	ND	4.0	04/22/16 13:15	
Dibromochloromethane	ug/L	ND	1.0	04/22/16 13:15	
Dibromomethane	ug/L	ND	4.0	04/22/16 13:15	
Dichlorodifluoromethane	ug/L	ND	1.0	04/22/16 13:15	
Dichlorofluoromethane	ug/L	ND	1.0	04/22/16 13:15	
Diethyl ether (Ethyl ether)	ug/L	ND	4.0	04/22/16 13:15	
Ethylbenzene	ug/L	ND	1.0	04/22/16 13:15	
Hexachloro-1,3-butadiene	ug/L	ND	2.0	04/22/16 13:15	
Isopropylbenzene (Cumene)	ug/L	ND	1.0	04/22/16 13:15	
m&p-Xylene	ug/L	ND	2.0	04/22/16 13:15	
Methyl-tert-butyl ether	ug/L	ND	1.0	04/22/16 13:15	
Methylene Chloride	ug/L	ND	4.0	04/22/16 13:15	
n-Butylbenzene	ug/L	ND	1.0	04/22/16 13:15	
n-Propylbenzene	ug/L	ND	1.0	04/22/16 13:15	
Naphthalene	ug/L	ND	4.0	04/22/16 13:15	
o-Xylene	ug/L	ND	1.0	04/22/16 13:15	
p-Isopropyltoluene	ug/L	ND	1.0	04/22/16 13:15	
sec-Butylbenzene	ug/L	ND	1.0	04/22/16 13:15	
Styrene	ug/L	ND	1.0	04/22/16 13:15	
tert-Butylbenzene	ug/L	ND	1.0	04/22/16 13:15	
Tetrachloroethene	ug/L	ND	1.0	04/22/16 13:15	
Tetrahydrofuran	ug/L	ND	40.0	04/22/16 13:15	
Toluene	ug/L	ND	1.0	04/22/16 13:15	
trans-1,2-Dichloroethene	ug/L	ND	1.0	04/22/16 13:15	
trans-1,3-Dichloropropene	ug/L	ND	4.0	04/22/16 13:15	
Trichloroethene	ug/L	ND	0.40	04/22/16 13:15	
Trichlorofluoromethane	ug/L	ND	1.0	04/22/16 13:15	
Vinyl chloride	ug/L	ND	0.40	04/22/16 13:15	
Xylene (Total)	ug/L	ND	3.0	04/22/16 13:15	
1,2-Dichloroethane-d4 (S)	%.	108	75-125	04/22/16 13:15	
4-Bromofluorobenzene (S)	%.	97	75-125	04/22/16 13:15	
Toluene-d8 (S)	%.	96	75-125	04/22/16 13:15	

LABORATORY CONTROL SAMPLE	& LCSD: 2238591		22	239747						
		Spike	LCS	LCSD	LCS	LCSD	% Rec		Max	
Parameter	Units	Conc.	Result	Result	% Rec	% Rec	Limits	RPD	RPD	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	20	19.2	18.3	96	92	75-126	4	20	
1,1,1-Trichloroethane	ug/L	20	21.4	20.6	107	103	72-125	4	20	
1,1,2,2-Tetrachloroethane	ug/L	20	20.4	20.1	102	101	68-125	1	20	
1,1,2-Trichloroethane	ug/L	20	20.1	20.6	100	103	75-125	3	20	
1,1,2-Trichlorotrifluoroethane	ug/L	20	21.7	20.5	109	103	66-132	6	20	
1,1-Dichloroethane	ug/L	20	23.6	22.8	118	114	68-126	3	20	
1,1-Dichloroethene	ug/L	20	22.0	21.7	110	109	67-127	1	20	
1,1-Dichloropropene	ug/L	20	21.1	20.4	106	102	71-126	4	20	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.



Project: CrC
Pace Project No.: 10345507

Date: 04/25/2016 04:19 PM

ABORATORY CONTROL SAMPLE &	LCSD: 223859			239747						
		Spike	LCS	LCSD	LCS	LCSD	% Rec		Max	
Parameter	Units	Conc.	Result	Result	% Rec	% Rec	Limits	RPD	RPD	Qualifier
,2,3-Trichlorobenzene	ug/L	20	17.8	16.4	89	82	63-132	8	20	
,2,3-Trichloropropane	ug/L	20	20.0	19.9	100	100	72-125	0	20	
,2,4-Trichlorobenzene	ug/L	20	17.2	15.9	86	80	59-135	8	20	
,2,4-Trimethylbenzene	ug/L	20	20.9	19.3	104	96	70-132	8	20	
,2-Dibromo-3-chloropropane	ug/L	50	41.9	40.5	84	81	58-130	3	20	
,2-Dibromoethane (EDB)	ug/L	20	19.8	20.0	99	100	75-125	1	20	
,2-Dichlorobenzene	ug/L	20	20.1	19.4	101	97	74-125	3	20	
,2-Dichloroethane	ug/L	20	21.8	22.3	109	111	71-125	2	20	
,2-Dichloropropane	ug/L	20	21.3	21.2	107	106	72-125	0	20	
,3,5-Trimethylbenzene	ug/L	20	21.7	20.0	108	100	73-125	8	20	
,3-Dichlorobenzene	ug/L	20	20.6	19.1	103	96	74-125	8	20	
,3-Dichloropropane	ug/L	20	19.4	19.8	97	99	75-125	2	20	
,4-Dichlorobenzene	ug/L	20	20.7	19.5	103	98	74-125	6	20	
,2-Dichloropropane	ug/L	20	21.9	18.5	109	93	64-138	17	20	
-Butanone (MEK)	ug/L	100	125	125	125	125	61-129	0	20	
-Chloroethylvinyl ether	ug/L	50	52.4	52.0	105	104	30-150	1	20	
-Chlorotoluene	ug/L	20	21.0	19.9	105	100	70-126	5	20	
-Chlorotoluene	ug/L	20	20.2	19.2	101	96	73-125	6	20	
-Methyl-2-pentanone (MIBK)	ug/L	100	117	114	117	114	63-135	3	20	
cetone	ug/L	100	105	117	105	117	66-150	11	20	
Illyl chloride	ug/L	20	25.6	25.2	128	126	62-139	1	20	
Benzene	ug/L	20	20.6	20.3	103	101	67-126	2	20	
Bromobenzene	ug/L	20	20.5	20.2	103	101	72-125	1	20	
Bromochloromethane	ug/L	20	21.2	21.6	106	108	73-125	2	20	
Bromodichloromethane	ug/L	20	19.4	19.0	97	95	71-126	2	20	
Bromoform	ug/L	20	15.9	14.8	80	74	64-130	7	20	
Gromomethane	ug/L	20	21.7	21.1	108	106	30-150	3	20	
Carbon tetrachloride	ug/L	20	20.1	19.1	101	95	71-128	5	20	
Chlorobenzene	ug/L	20	21.0	19.1	105	100	75-125	5	20	
Chloroethane	ug/L	20	23.5	22.6	117	113	60-130	4	20	
Chloroform	ug/L	20	20.4	20.4	102	102	73-125	0	20	
Chloromethane	ug/L ug/L	20	29.4	29.0	147	145	49-146	1		CH,L0
is-1,2-Dichloroethene	ug/L	20	21.3	20.3	106	102	68-131	5	20	
is-1,2-Dichloropropene	ug/L ug/L	20	20.8	20.3	104	102	73-125	2	20	
Dibromochloromethane	ug/L	20	16.3	16.0	81	80	71-125	2	20	
Dibromomethane	-	20	20.6	20.8	103	104	71-123	1	20	
Dichlorodifluoromethane	ug/L	20		20.6		104	56-145	3	20	
	ug/L	_	22.0		110			_		
Dichlorofluoromethane	ug/L	20	22.8	22.2	114	111	69-128	3	20	
hiethyl ether (Ethyl ether)	ug/L	20	22.6	23.1	113	116	65-127	2	20	
thylbenzene	ug/L	20	20.6	19.2		96	75-125	7	20	
lexachloro-1,3-butadiene	ug/L	20	15.1	12.4	75	62	62-145	20	20	
sopropylbenzene (Cumene)	ug/L	20	20.2	18.5	101	92	75-133	9	20	
n&p-Xylene	ug/L	40	43.4	40.3	108	101	75-126	7	20	
Methyl-tert-butyl ether	ug/L	20	20.7	21.4	104	107	73-125	3	20	
Methylene Chloride	ug/L	20	20.6	20.3		102	72-128	2	20	
-Butylbenzene -Propylbenzene	ug/L ug/L	20 20	18.9 21.0	16.3 19.3		81 96	67-131 70-128	15 9	20 20	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.



Project: CrC
Pace Project No.: 10345507

Date: 04/25/2016 04:19 PM

LABORATORY CONTROL SAMPLI	E & LCSD: 2238591		22	39747						
		Spike	LCS	LCSD	LCS	LCSD	% Rec		Max	
Parameter	Units	Conc.	Result	Result	% Rec	% Rec	Limits	RPD	RPD	Qualifiers
Naphthalene	ug/L	20	18.8	18.2	94	91	54-139	3	20	
o-Xylene	ug/L	20	20.0	18.5	100	93	75-125	8	20	
p-Isopropyltoluene	ug/L	20	19.7	17.6	98	88	71-128	11	20	
sec-Butylbenzene	ug/L	20	19.2	17.5	96	88	73-132	9	20	
Styrene	ug/L	20	21.2	20.2	106	101	75-128	5	20	
tert-Butylbenzene	ug/L	20	19.4	17.7	97	88	75-130	9	20	
Tetrachloroethene	ug/L	20	19.7	18.1	99	91	67-129	8	20	
Tetrahydrofuran	ug/L	200	192	211	96	106	73-137	10	20	
Toluene	ug/L	20	19.4	18.3	97	91	74-125	6	20	
trans-1,2-Dichloroethene	ug/L	20	22.4	21.4	112	107	65-128	4	20	
trans-1,3-Dichloropropene	ug/L	20	19.5	18.7	98	93	75-125	4	20	
Trichloroethene	ug/L	20	21.0	20.0	105	100	72-125	5	20	
Trichlorofluoromethane	ug/L	20	21.7	19.8	109	99	70-132	9	20	
Vinyl chloride	ug/L	20	23.2	22.2	116	111	69-130	4	20	
Xylene (Total)	ug/L	60	63.4	58.8	106	98	75-125	8	20	
1,2-Dichloroethane-d4 (S)	%.				104	109	75-125			
4-Bromofluorobenzene (S)	%.				95	96	75-125			
Toluene-d8 (S)	%.				92	92	75-125			

MATRIX SPIKE SAMPLE:	2238681						
		10345507001	Spike	MS	MS	% Rec	
Parameter	Units	Result	Conc.	Result	% Rec	Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	20	20.0	100	55-147	
1,1,1-Trichloroethane	ug/L	ND	20	24.2	121	45-150	
1,1,2,2-Tetrachloroethane	ug/L	ND	20	20.3	101	52-143	
1,1,2-Trichloroethane	ug/L	ND	20	20.2	101	57-139	
1,1,2-Trichlorotrifluoroethane	ug/L	ND	20	27.3	132	40-150	
1,1-Dichloroethane	ug/L	ND	20	25.0	125	46-150	
1,1-Dichloroethene	ug/L	ND	20	26.3	131	42-150	
1,1-Dichloropropene	ug/L	ND	20	24.1	121	45-150	
1,2,3-Trichlorobenzene	ug/L	ND	20	16.4	82	51-142	
1,2,3-Trichloropropane	ug/L	ND	20	19.4	97	55-142	
1,2,4-Trichlorobenzene	ug/L	ND	20	15.9	79	50-143	
1,2,4-Trimethylbenzene	ug/L	ND	20	20.6	103	51-147	
1,2-Dibromo-3-chloropropane	ug/L	ND	50	38.2	76	44-149	
1,2-Dibromoethane (EDB)	ug/L	ND	20	20.0	100	60-138	
1,2-Dichlorobenzene	ug/L	ND	20	19.9	100	55-137	
1,2-Dichloroethane	ug/L	ND	20	22.9	114	50-139	
1,2-Dichloropropane	ug/L	ND	20	22.5	112	61-145	
1,3,5-Trimethylbenzene	ug/L	ND	20	21.4	107	34-150	
1,3-Dichlorobenzene	ug/L	ND	20	20.3	101	53-138	
1,3-Dichloropropane	ug/L	ND	20	20.0	100	58-139	
1,4-Dichlorobenzene	ug/L	ND	20	20.4	102	52-135	
2,2-Dichloropropane	ug/L	ND	20	21.6	108	30-150	
2-Butanone (MEK)	ug/L	ND	100	118	117	30-150	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.



Project: CrC
Pace Project No.: 10345507

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MATRIX SPIKE SAMPLE:	2238681	10345507001	Spike	MS	MS	% Rec	
Parameter	Units	Result	Conc.	Result	% Rec	Limits	Qualifiers
2-Chloroethylvinyl ether	ug/L	ND	50	ND	1	30-125	P5
2-Chlorotoluene	ug/L	ND	20	21.4	107	52-146	
4-Chlorotoluene	ug/L	ND	20	20.6	103	43-142	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	100	110	110	46-148	
Acetone	ug/L	53.9	100	175	121	44-150	
Allyl chloride	ug/L	ND	20	28.3	141	40-150	
Benzene	ug/L	ND	20	22.2	111	49-143	
Bromobenzene	ug/L	ND	20	20.7	104	58-139	
Bromochloromethane	ug/L	ND	20	22.5	112	53-144	
Bromodichloromethane	ug/L	ND	20	19.8	99	49-145	
Bromoform	ug/L	ND	20	15.0	75	42-142	
Bromomethane	ug/L	ND	20	21.4	107	30-150	
Carbon tetrachloride	ug/L	ND	20	22.9	114	30-150	
Chlorobenzene	ug/L	ND	20	21.4	107	57-137	
Chloroethane	ug/L	ND	20	23.6	118	39-150	
Chloroform	ug/L	ND	20	21.5	107	52-147	
Chloromethane	ug/L	ND	20	30.8	154		CH,M0
cis-1,2-Dichloroethene	ug/L	ND	20	23.0	112	44-149	
cis-1,3-Dichloropropene	ug/L	ND	20	20.8	104	45-140	
Dibromochloromethane	ug/L	ND	20	16.1	81	49-144	
Dibromomethane	ug/L	ND	20	21.0	105	59-142	
Dichlorodifluoromethane	ug/L	ND	20	25.0	125	46-150	
Dichlorofluoromethane	ug/L	ND	20	23.2	116	53-150	
Diethyl ether (Ethyl ether)	ug/L	ND	20	23.0	115	45-146	
Ethylbenzene	ug/L	ND	20	20.9	104	49-141	
Hexachloro-1,3-butadiene	ug/L	ND	20	14.6	73	33-150	
Isopropylbenzene (Cumene)	ug/L	ND	20	20.1	101	50-150	
	_	ND	40	43.8	110	44-150	
m&p-Xylene	ug/L	ND ND	20	43.6 21.2	106	52-138	
Methyl-tert-butyl ether Methylene Chloride	ug/L ug/L	ND ND	20	21.2	109	43-149	
-		ND	20	18.4	92	46-150	
n-Butylbenzene	ug/L	ND	20	21.1	106	44-150	
n-Propylbenzene Naphthalene	ug/L	ND	20	17.3	87	45-149	
•	ug/L	ND ND	20	17.3	98	48-149	
o-Xylene p-Isopropyltoluene	ug/L ug/L	ND ND	20	19.5	96 95	54-147	
		ND	20	19.0	93 97	51-150	
sec-Butylbenzene	ug/L	ND ND	20	20.9	104	47-149	
Styrene	ug/L	ND					
tert-Butylbenzene	ug/L	106	20	19.6	98 116	49-149 30-150	
Tetrachloroethene Tetrachudrofuran	ug/L	ND	20	129	116 115		
Tetrahydrofuran	ug/L	ND ND	200	231	115	52-150	
Toluene	ug/L		20	20.4	102	48-141	
trans-1,2-Dichloroethene	ug/L	ND ND	20	23.7	118	42-150	
trans-1,3-Dichloropropene	ug/L	ND	20	19.2	96	45-143	
Trichloroethene	ug/L	ND	20	22.6	112	38-150	
Trichlorofluoromethane	ug/L	ND	20	24.6	123	57-150	
Vinyl chloride	ug/L	ND	20	24.3	122	43-150	
Xylene (Total)	ug/L	ND	60	63.4	106	45-149	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.



Project: CrC
Pace Project No.: 10345507

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MATRIX SPIKE SAMPLE:	2238681						
		10345507001	Spike	MS	MS	% Rec	
Parameter	Units	Result	Conc.	Result	% Rec	Limits	Qualifiers
1,2-Dichloroethane-d4 (S)	%.				108	75-125	
4-Bromofluorobenzene (S)	%.				98	75-125	
Toluene-d8 (S)	%.				93	75-125	

SAMPLE DUPLICATE: 2238682						
		10345507002	Dup		Max	
Parameter	Units	Result	Result	RPD	RPD	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	ND		30	
1,1,1-Trichloroethane	ug/L	ND	ND		30	
1,1,2,2-Tetrachloroethane	ug/L	ND	ND		30	
1,1,2-Trichloroethane	ug/L	ND	ND		30	
1,1,2-Trichlorotrifluoroethane	ug/L	ND	ND		30	
1,1-Dichloroethane	ug/L	ND	ND		30	
1,1-Dichloroethene	ug/L	ND	ND		30	
1,1-Dichloropropene	ug/L	ND	ND		30	
1,2,3-Trichlorobenzene	ug/L	ND	ND		30	
1,2,3-Trichloropropane	ug/L	ND	ND		30	
1,2,4-Trichlorobenzene	ug/L	ND	ND		30	
1,2,4-Trimethylbenzene	ug/L	ND	ND		30	
1,2-Dibromo-3-chloropropane	ug/L	ND	ND		30	
1,2-Dibromoethane (EDB)	ug/L	ND	ND		30	
1,2-Dichlorobenzene	ug/L	ND	ND		30	
1,2-Dichloroethane	ug/L	ND	ND		30	
1,2-Dichloropropane	ug/L	ND	ND		30	
1,3,5-Trimethylbenzene	ug/L	ND	ND		30	
1,3-Dichlorobenzene	ug/L	ND	ND		30	
1,3-Dichloropropane	ug/L	ND	ND		30	
1,4-Dichlorobenzene	ug/L	ND	ND		30	
2,2-Dichloropropane	ug/L	ND	ND		30	
2-Butanone (MEK)	ug/L	ND	ND		30	
2-Chloroethylvinyl ether	ug/L	ND	ND		30	
2-Chlorotoluene	ug/L	ND	ND		30	
4-Chlorotoluene	ug/L	ND	ND		30	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	ND		30	
Acetone	ug/L	121	119	2	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	

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# **QUALITY CONTROL DATA**

Project: CrC
Pace Project No.: 10345507

Date: 04/25/2016 04:19 PM

		10345507002	Dup		Max	
Parameter	Units	Result	Result	RPD	RPD	Qualifiers
Chloroform	ug/L		ND		30	
Chloromethane	ug/L	ND	ND		30	
cis-1,2-Dichloroethene	ug/L	ND	ND		30	
cis-1,3-Dichloropropene	ug/L	ND	ND		30	
Dibromochloromethane	ug/L	ND	ND		30	
Dibromomethane	ug/L	ND	ND		30	
Dichlorodifluoromethane	ug/L	ND	ND		30	
Dichlorofluoromethane	ug/L	ND	ND		30	
Diethyl ether (Ethyl ether)	ug/L	ND	ND		30	
Ethylbenzene	ug/L	ND	ND		30	
Hexachloro-1,3-butadiene	ug/L	ND	ND		30	
Isopropylbenzene (Cumene)	ug/L	ND	ND		30	
m&p-Xylene	ug/L	ND	ND		30	
Methyl-tert-butyl ether	ug/L	ND	ND		30	
Methylene Chloride	ug/L	ND	ND		30	
n-Butylbenzene	ug/L	ND	ND		30	
n-Propylbenzene	ug/L	ND	ND		30	
Naphthalene	ug/L	ND	ND		30	
o-Xylene	ug/L	ND	ND		30	
p-Isopropyltoluene	ug/L	ND	ND		30	
sec-Butylbenzene	ug/L	ND	ND		30	
Styrene	ug/L	ND	ND		30	
tert-Butylbenzene	ug/L	ND	ND		30	
Tetrachloroethene	ug/L	ND	ND		30	
Tetrahydrofuran	ug/L	ND	ND		30	
Toluene	ug/L	ND	ND		30	
trans-1,2-Dichloroethene	ug/L	ND	ND		30	
trans-1,3-Dichloropropene	ug/L	ND	ND		30	
Trichloroethene	ug/L	ND	ND		30	
Trichlorofluoromethane	ug/L	ND	ND		30	
Vinyl chloride	ug/L	ND	ND		30	
Xylene (Total)	ug/L	ND	ND		30	
1,2-Dichloroethane-d4 (S)	%.	110	108	2		
. ,		405		_		
4-Bromofluorobenzene (S)	%.	105	106	1		

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.



### **QUALIFIERS**

Project: CrC
Pace Project No.: 10345507

### **DEFINITIONS**

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

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.

PQL - Practical Quantitation Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

**DUP - Sample Duplicate** 

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

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

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

TNI - The NELAC Institute.

### **BATCH QUALIFIERS**

Batch: MSV/35304

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

### **ANALYTE QUALIFIERS**

Date: 04/25/2016 04:19 PM

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

- LO 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.
- P5 The EPA or method required sample preservation degrades this compound, therefore acceptable recoveries may not be achieved in sample matrix spikes.
- c2 Acid preservation may not be appropriate for the analysis of 2-Chloroethylvinyl ether.





# **QUALITY CONTROL DATA CROSS REFERENCE TABLE**

Project: CrC
Pace Project No.: 10345507

Date: 04/25/2016 04:19 PM

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10345507001 10345507002	AS-Influent AS-Effluent	EPA 624 EPA 624	MSV/35304 MSV/35304		

# CHAIN-OF-CUSTODY / Analytical Request Document

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

Face Analytical www.nacelals.com

Pace Project No./ Lab I.D. 200 (N/A) DRINKING WATER 00 Samples Intact SAMPLE CONDITIONS S 202595 OTHER (N/A) sied Cooler Custody Received on Ice (Y/N) GROUND WATER Residual Chlorine (Y/N) O° ni qmaT Page: REGULATORY AGENCY RCRA Requested Analysis Filtered (Y/N) TIME STATE Site Location NPDES DATE 7 UST 54 10345507 DATE Signed ACCEPTED BY / AFFILIATION Paradise ↓ tesT sisylsnA↓ **†** N 7A スなのん Methanol Other Preservatives _EO_SS_SBN Attention: Sharva HOBN HCI くらん Invoice Information: ^EONH Company Name: ^⁵OS²H 432 Section C Pace Quote
Reference:
Pace Project
Manager:
Pace Profile # TIME Unpreserved Address: # OF CONTAINERS ķ SAMPLER NAME AND SIGNATURE 4/21/6 SIGNATURE of SAMPLER: PRINT Name of SAMPLER: SAMPLE TEMP AT COLLECTION copylisteranstad @ landmankenvicom Report To, Kuck & (andmarkens, Corn DATE TIME COMPOSITE END/GRAB DATE COLLECTED RELINQUISHED BY / AFFILIATION 子を食 たぶ 20/16 1:30 TIME COMPOSITE START DATE Section B Required Project Information: どん (G=GRAB C=COMP) **39YT AJ9MA8** Purchase Order No. Project Number: (see valid codes to left) Ļ MATRIX CODE Project Name: ORIGINAL ^교 임임삼성도요 Matrix Codes MATRIX / CODE Drinking Water Water Waste Water Product Soil/Soid Oil Wipe Air. Email To: Kucke landmantenu.co Company, and mort Environment 9,8th S Ž Requested Due Date/TAT: NO'r ma ADDITIONAL COMMENTS (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE SAMPLE ID Blooming ton Required Client Information Section A Required Client Information: Address: 2042 Section D Page 18 of 19 ıo 9 6 9 7 # M3TI ~ 7 œ

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 involces not paid within 30 days.

F-ALL-Q-020rev.07, 15-May-2007

(MM/DD/YY):



# Document Name:

# Sample Condition Upon Receipt Form

Document No.: F-MN-L-213-rev.15

Document Revised: 05Jan2016

Page 1 of 1

Issuing Authority: Pace Minnesota Quality Office

Sample Condition Client Name:			Project	#: WO#:10345507
Upon Receipt Land mark				MOH · INDIPOS
Courier: Fed Ex UPS	USPS		lient	
Commercial Pace SpeeDee	Other:_			
Tracking Number:				<u> </u>
Custody Seal on Cooler/Box Present? Yes	;	Seals Int	act?	Yes Proj. Due Date: Proj. Name:
Packing Material: Bubble Wrap Bubble Bags	□Non	e 🔲	Other:	Temp Blank? Yes You
Thermometer 151401163	Тур	e of Ice:	<b>∑</b> We	t Blue None Samples on ice, cooling process has begun
Used: 151401164		. Ч.	.5	Biological Tissue Frozen? Yes No No
Temp should be above freezing to 6°C Correction Factor		+00	Dat	e and Initials of Person Examining Contents: RM 4/21/14
USDA Regulated Soil ( N/A, water sample)				
Did samples originate in a quarantine zone within the United St. MS, NC, NM, NY, OK, OR, SC, TN, TX or WA (check maps)?	ates: AL, A	AR, AZ, CA	A, FL, GA, Yes	ID, LA. Did samples originate from a foreign source (internationally, No including Hawaii and Puerto Rico)?
	lated Soil	Checklis		Q-338) and include with SCUR/COC paperwork.
				COMMENTS:
Chain of Custody Present?	Yes	□No	□n/a	1.
Chain of Custody Filled Out?	Yes	□No	□n/A	2.
Chain of Custody Relinquished?	Yes	□No	□N/A	3.
Sampler Name and/or Signature on COC?	Yes	□No	□n/a	4.
Samples Arrived within Hold Time?	Yes	□No	□N/A	5.
Short Hold Time Analysis (<72 hr)?	Yes	MΩ	□N/A	6.
Rush Turn Around Time Requested?	Yes	Mo	□n/a	7.
Sufficient Volume?	Yes	□No	N/A	8.
Correct Containers Used?	Yes	∭No	∐n/a	9.
-Pace Containers Used?	¥Yes	□No	□N/A	
Containers Intact?	Yes	∐No	□N/A	10.
Filtered Volume Received for Dissolved Tests?	Yes	∏No	<b>X</b> N/A	11. Note if sediment is visible in the dissolved container
Sample Labels Match COC?	Yes	∏No	□N/A	12.
-Includes Date/Time/ID/Analysis Matrix:				
All containers needing acid/base preservation have been checked?	∐Ye₅	□No	<b>⊠</b> n/à	13. ☐HNO₃ ☐H₂SO₄ ☐NaOH ☐HCI
All containers needing preservation are found to be in	_		7- '	Sample #
compliance with EPA recommendation? (HNO ₃ , H ₂ SQ ₄ ,HCl<2; NaOH >9 Sulfide, NaOH>12 Cyanide)	∐Yes	∏No	<b>⊠</b> N/A	
Exceptions (VOA, Coliform, TOC, Oil and Grease,			_	Initial when Lot # of added
DRO/8015 (water) DOC	Yes	□No	□N/A	completed: preservative:
Headspace in VOA Vials ( >6mm)?  Trip Blank Present?	Yes	1XINo □No	□N/A	14. 15.
Trip Blank Present?	☐Yes ☐Yes	□No	ĎØN/A Ď₽N/A	
Pace Trip Blank Lot # (if purchased):	_,⇔		Hα.v.α	
CLIENT NOTIFICATION/RESOLUTION	<del></del>			Field Data Required? Yes No
Person Contacted:				Date/Time:
Comments/Resolution:				
· .				

Project Manager Review: Date: 4/21/16

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).





June 02, 2016

Aaron Kuck Landmark Environmenatl 2042 W 98th St. Bloomingotn, MN 55431

RE: Project: CrC

Pace Project No.: 10348956

### Dear Aaron Kuck:

Enclosed are the analytical results for sample(s) received by the laboratory on May 18, 2016. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

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

Sincerely,

Oyeyemi Odujole oyeyemi.odujole@pacelabs.com Project Manager

**Enclosures** 





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



### **CERTIFICATIONS**

Project: CrC

Pace Project No.: 10348956

### **Minnesota Certification IDs**

1700 Elm Street SE Suite 200, Minneapolis, MN 55414

525 N 8th Street, Salina, KS 67401 A2LA Certification #: 2926.01 Alaska Certification #: UST-078 Alaska Certification #MN00064 Alabama Certification #40770 Arizona Certification #: AZ-0014 Arkansas Certification #: 88-0680 California Certification #: 01155CA Colorado Certification #Pace

Connecticut Certification #: PH-0256 EPA Region 8 Certification #: 8TMS-L Florida/NELAP Certification #: E87605

Guam Certification #:14-008r Georgia Certification #: 959 Georgia EPD #: Pace

Idaho Certification #: MN00064 Hawaii Certification #MN00064 Illinois Certification #: 200011 Indiana Certification#C-MN-01 Iowa Certification #: 368 Kansas Certification #: E-10167

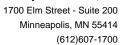
Kentucky Dept of Envi. Protection - DW #90062 Kentucký Dept of Envi. Protection - WW #:90062

Louisiana DEQ Certification #: 3086 Louisiana DHH #: LA140001 Maine Certification #: 2013011 Maryland Certification #: 322 Michigan DEPH Certification #: 9909 Minnesota Certification #: 027-053-137 Mississippi Certification #: Pace Montana Certification #: MT0092 Nevada Certification #: MN_00064 Nebraska Certification #: Pace New Jersey Certification #: MN-002 New York Certification #: 11647 North Carolina Certification #: 530 North Carolina State Public Health #: 27700

North Dakota Certification #: R-036

Ohio EPA #: 4150 Ohio VAP Certification #: CL101 Oklahoma Certification #: 9507 Oregon Certification #: MN200001 Oregon Certification #: MN300001 Pennsylvania Certification #: 68-00563 Puerto Rico Certification

Saipan (CNMI) #:MP0003 South Carolina #:74003001 Texas Certification #: T104704192 Tennessee Certification #: 02818 Utah Certification #: MN000642013-4 Virginia DGS Certification #: 251 Virginia/VELAP Certification #: Pace Washington Certification #: C486 West Virginia Certification #: 382 West Virginia DHHR #:9952C Wisconsin Certification #: 999407970

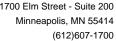




# **SAMPLE SUMMARY**

Project: CrC
Pace Project No.: 10348956

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10348956001	MW-14	Water	05/17/16 15:30	05/18/16 16:43
10348956002	MW-15	Water	05/17/16 15:45	05/18/16 16:43
10348956003	MW-16	Water	05/17/16 16:50	05/18/16 16:43
10348956004	MW-17	Water	05/18/16 11:05	05/18/16 16:43
10348956005	MW-18	Water	05/18/16 11:30	05/18/16 16:43
10348956006	MW-19	Water	05/17/16 13:45	05/18/16 16:43
10348956007	MW-20	Water	05/17/16 16:05	05/18/16 16:43
10348956008	DPE-1	Water	05/18/16 10:40	05/18/16 16:43
10348956009	DPE-2	Water	05/18/16 10:15	05/18/16 16:43
10348956010	DPE-3	Water	05/18/16 10:30	05/18/16 16:43
10348956011	DPE-4	Water	05/18/16 10:00	05/18/16 16:43
10348956012	DPE-5	Water	05/17/16 16:20	05/18/16 16:43
10348956013	DPE-6	Water	05/17/16 16:35	05/18/16 16:43
10348956014	DPE-7	Water	05/17/16 15:15	05/18/16 16:43
10348956015	DPE-8	Water	05/18/16 09:40	05/18/16 16:43
10348956016	Influent	Water	05/18/16 11:10	05/18/16 16:43
10348956017	Effluent	Water	05/18/16 11:15	05/18/16 16:43





# **SAMPLE ANALYTE COUNT**

Project: CrC
Pace Project No.: 10348956

Lab ID	Sample ID	Method	Analysts	Analytes Reported
10348956001	MW-14	EPA 8260B	PRD	70
10348956002	MW-15	EPA 8260B	PRD	70
10348956003	MW-16	EPA 8260B	PRD	70
10348956004	MW-17	EPA 8260B	PRD	70
10348956005	MW-18	EPA 8260B	PRD	70
10348956006	MW-19	EPA 8260B	PRD	70
10348956007	MW-20	EPA 8260B	PRD	70
10348956008	DPE-1	EPA 8260B	PRD	70
10348956009	DPE-2	EPA 8260B	PRD	70
10348956010	DPE-3	EPA 8260B	PRD	70
10348956011	DPE-4	EPA 8260B	PRD	70
10348956012	DPE-5	EPA 8260B	PRD	70
10348956013	DPE-6	EPA 8260B	PRD	70
10348956014	DPE-7	EPA 8260B	PRD	70
10348956015	DPE-8	EPA 8260B	PRD	70
10348956016	Influent	EPA 624	DJB	73
10348956017	Effluent	EPA 624	DJB	73



# **ANALYTICAL RESULTS**

Project: CrC
Pace Project No.: 10348956

Date: 06/02/2016 07:27 AM

Sample: MW-14	Lab ID: 103	48956001	Collected: 05/17/1	6 15:30	Received:	05/18/16 16:43	Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260B VOC	Analytical Met	nod: EPA 82	260B					
Acetone	ND	ug/L	20.0	1		05/21/16 01:4	1 67-64-1	
Allyl chloride	ND	ug/L	4.0	1		05/21/16 01:4	1 107-05-1	
Benzene	ND	ug/L	1.0	1		05/21/16 01:4	1 71-43-2	
Bromobenzene	ND	ug/L	1.0	1		05/21/16 01:4	1 108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		05/21/16 01:4	1 74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		05/21/16 01:4	1 75-27-4	
Bromoform	ND	ug/L	4.0	1		05/21/16 01:4	1 75-25-2	
Bromomethane	ND	ug/L	4.0	1		05/21/16 01:4	1 74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	1		05/21/16 01:4	1 78-93-3	
n-Butylbenzene	ND	ug/L	1.0	1		05/21/16 01:4	1 104-51-8	
sec-Butylbenzene	ND	ug/L	1.0	1		05/21/16 01:4	1 135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	1		05/21/16 01:4	1 98-06-6	
Carbon tetrachloride	ND	ug/L	1.0	1		05/21/16 01:4	1 56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		05/21/16 01:4	1 108-90-7	
Chloroethane	ND	ug/L	1.0	1		05/21/16 01:4	1 75-00-3	
Chloroform	ND	ug/L	4.0	1		05/21/16 01:4		
Chloromethane	ND	ug/L	4.0	1		05/21/16 01:4		
2-Chlorotoluene	ND	ug/L	1.0	1		05/21/16 01:4		
4-Chlorotoluene	ND	ug/L	1.0	1		05/21/16 01:4		
1,2-Dibromo-3-chloropropane	ND	ug/L	4.0	1		05/21/16 01:4		
Dibromochloromethane	ND	ug/L	1.0	1		05/21/16 01:4		
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		05/21/16 01:4		
Dibromomethane	ND	ug/L	4.0	1		05/21/16 01:4		
1,2-Dichlorobenzene	ND	ug/L	1.0	1		05/21/16 01:4		
1,3-Dichlorobenzene	ND	ug/L ug/L	1.0	1		05/21/16 01:4		
1,4-Dichlorobenzene	ND	ug/L ug/L	1.0	1		05/21/16 01:4		
Dichlorodifluoromethane	ND ND	ug/L ug/L	1.0	1		05/21/16 01:4		
1,1-Dichloroethane	ND	ug/L ug/L	1.0	1		05/21/16 01:4		
1,2-Dichloroethane	ND		1.0	1		05/21/16 01:4		
•		ug/L				05/21/16 01:4		
1,1-Dichloroethene	ND	ug/L	1.0	1				
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		05/21/16 01:4		
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		05/21/16 01:4		
Dichlorofluoromethane	ND	ug/L	1.0	1		05/21/16 01:4		
1,2-Dichloropropane	ND	ug/L	4.0	1		05/21/16 01:4		
1,3-Dichloropropane	ND	ug/L	1.0	1		05/21/16 01:4		
2,2-Dichloropropane	ND	ug/L	4.0	1		05/21/16 01:4		
1,1-Dichloropropene	ND	ug/L	1.0	1		05/21/16 01:4		
cis-1,3-Dichloropropene	ND	ug/L	4.0	1			1 10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	4.0	1			1 10061-02-6	
Diethyl ether (Ethyl ether)	ND	ug/L	4.0	1		05/21/16 01:4		
Ethylbenzene	ND	ug/L	1.0	1		05/21/16 01:4		
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		05/21/16 01:4		
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		05/21/16 01:4		
p-Isopropyltoluene	ND	ug/L	1.0	1		05/21/16 01:4		
Methylene Chloride	ND	ug/L	4.0	1		05/21/16 01:4	1 75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		05/21/16 01:4	1 108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		05/21/16 01:4	1 1634-04-4	





Project: CrC
Pace Project No.: 10348956

Sample: MW-14	Lab ID: 103	48956001	Collected: 05/17/1	6 15:30	Received: 05	5/18/16 16:43 N	Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260B VOC	Analytical Meth	nod: EPA 82	260B					
Naphthalene	ND	ug/L	4.0	1		05/21/16 01:41	91-20-3	
n-Propylbenzene	ND	ug/L	1.0	1		05/21/16 01:41	103-65-1	
Styrene	ND	ug/L	1.0	1		05/21/16 01:41	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		05/21/16 01:41	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		05/21/16 01:41	79-34-5	
Tetrachloroethene	35.7	ug/L	1.0	1		05/21/16 01:41	127-18-4	
Tetrahydrofuran	ND	ug/L	10.0	1		05/21/16 01:41	109-99-9	
Toluene	ND	ug/L	1.0	1		05/21/16 01:41	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		05/21/16 01:41	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		05/21/16 01:41	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		05/21/16 01:41	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		05/21/16 01:41	79-00-5	
Trichloroethene	ND	ug/L	0.40	1		05/21/16 01:41	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		05/21/16 01:41	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	4.0	1		05/21/16 01:41	96-18-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/L	1.0	1		05/21/16 01:41	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1		05/21/16 01:41	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1		05/21/16 01:41	108-67-8	
Vinyl chloride	ND	ug/L	0.40	1		05/21/16 01:41	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		05/21/16 01:41	1330-20-7	
Surrogates		-						
1,2-Dichloroethane-d4 (S)	98	%.	75-125	1		05/21/16 01:41	17060-07-0	
Toluene-d8 (S)	104	%.	75-125	1		05/21/16 01:41	2037-26-5	
4-Bromofluorobenzene (S)	101	%.	75-125	1		05/21/16 01:41	460-00-4	



# **ANALYTICAL RESULTS**

Project: CrC
Pace Project No.: 10348956

Date: 06/02/2016 07:27 AM

Sample: MW-15	Lab ID: 103	48956002	Collected: 05/17/1	6 15:45	Received: 0	05/18/16 16:43	Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qua
8260B VOC	Analytical Met	nod: EPA 82	260B					
Acetone	ND	ug/L	20.0	1		05/20/16 04:40	67-64-1	
Allyl chloride	ND	ug/L	4.0	1		05/20/16 04:40	107-05-1	
Benzene	ND	ug/L	1.0	1		05/20/16 04:40	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		05/20/16 04:40	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		05/20/16 04:40	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		05/20/16 04:40	75-27-4	
Bromoform	ND	ug/L	4.0	1		05/20/16 04:40	75-25-2	
Bromomethane	ND	ug/L	4.0	1		05/20/16 04:40	74-83-9	CL
2-Butanone (MEK)	ND	ug/L	5.0	1		05/20/16 04:40	78-93-3	
n-Butylbenzene	ND	ug/L	1.0	1		05/20/16 04:40	104-51-8	
sec-Butylbenzene	ND	ug/L	1.0	1		05/20/16 04:40	135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	1		05/20/16 04:40	98-06-6	
Carbon tetrachloride	ND	ug/L	1.0	1		05/20/16 04:40	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		05/20/16 04:40	108-90-7	
Chloroethane	ND	ug/L	1.0	1		05/20/16 04:40	75-00-3	
Chloroform	ND	ug/L	4.0	1		05/20/16 04:40	67-66-3	
Chloromethane	ND	ug/L	4.0	1		05/20/16 04:40	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		05/20/16 04:40	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		05/20/16 04:40	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	4.0	1		05/20/16 04:40	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		05/20/16 04:40	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		05/20/16 04:40	106-93-4	
Dibromomethane	ND	ug/L	4.0	1		05/20/16 04:40	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		05/20/16 04:40	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		05/20/16 04:40	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		05/20/16 04:40		
Dichlorodifluoromethane	ND	ug/L	1.0	1		05/20/16 04:40		
1,1-Dichloroethane	ND	ug/L	1.0	1		05/20/16 04:40	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		05/20/16 04:40	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		05/20/16 04:40		
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		05/20/16 04:40		
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		05/20/16 04:40		
Dichlorofluoromethane	ND	ug/L	1.0	1		05/20/16 04:40		
1,2-Dichloropropane	ND	ug/L	4.0	1		05/20/16 04:40		
1,3-Dichloropropane	ND	ug/L	1.0	1		05/20/16 04:40		
2,2-Dichloropropane	ND	ug/L	4.0	1		05/20/16 04:40		
1,1-Dichloropropene	ND	ug/L	1.0	1		05/20/16 04:40		
cis-1,3-Dichloropropene	ND	ug/L	4.0	1		05/20/16 04:40		
trans-1,3-Dichloropropene	ND	ug/L	4.0	1		05/20/16 04:40		
Diethyl ether (Ethyl ether)	ND	ug/L	4.0	1		05/20/16 04:40		
Ethylbenzene	ND	ug/L	1.0	1		05/20/16 04:40		
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		05/20/16 04:40		
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		05/20/16 04:40		
p-Isopropyltoluene	ND ND	ug/L	1.0	1		05/20/16 04:40		
Methylene Chloride	ND ND	ug/L ug/L	4.0	1		05/20/16 04:40		
		•						
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		05/20/16 04:40	1 108_10 1	

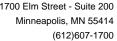




Project: CrC
Pace Project No.: 10348956

Date: 06/02/2016 07:27 AM

Sample: MW-15	Lab ID: 1034	48956002	Collected: 05/17/1	16 15:45	Received: 05/18/16 16:43	Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared Analyzed	CAS No.	Qua
8260B VOC	Analytical Meth	nod: EPA 82	260B				
Naphthalene	ND	ug/L	4.0	1	05/20/16 04:	40 91-20-3	
n-Propylbenzene	ND	ug/L	1.0	1	05/20/16 04:	40 103-65-1	
Styrene	ND	ug/L	1.0	1	05/20/16 04:	40 100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1	05/20/16 04:	40 630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1	05/20/16 04:	40 79-34-5	
Tetrachloroethene	26.4	ug/L	1.0	1	05/20/16 04:	40 127-18-4	
Tetrahydrofuran	ND	ug/L	10.0	1	05/20/16 04:	40 109-99-9	
Toluene	ND	ug/L	1.0	1	05/20/16 04:	40 108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1	05/20/16 04:	40 87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1	05/20/16 04:	40 120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1	05/20/16 04:	40 71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1	05/20/16 04:	40 79-00-5	
Trichloroethene	ND	ug/L	0.40	1	05/20/16 04:	40 79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1	05/20/16 04:	40 75-69-4	
1,2,3-Trichloropropane	ND	ug/L	4.0	1	05/20/16 04:	40 96-18-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/L	1.0	1	05/20/16 04:	40 76-13-1	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1	05/20/16 04:	40 95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1	05/20/16 04:	40 108-67-8	
Vinyl chloride	ND	ug/L	0.40	1	05/20/16 04:	40 75-01-4	
Xylene (Total)	ND	ug/L	3.0	1	05/20/16 04:	40 1330-20-7	
Surrogates		•					
1,2-Dichloroethane-d4 (S)	101	%.	75-125	1	05/20/16 04:	40 17060-07-0	
Toluene-d8 (S)	104	%.	75-125	1	05/20/16 04:	40 2037-26-5	
4-Bromofluorobenzene (S)	99	%.	75-125	1	05/20/16 04:	40 460-00-4	





Project: CrC
Pace Project No.: 10348956

Date: 06/02/2016 07:27 AM

Sample: MW-16	Lab ID: 103	48956003	Collected: 05/17/1	6 16:50	Received:	05/18/16 16:43	Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qua
8260B VOC	Analytical Meth	nod: EPA 82	260B					
Acetone	ND	ug/L	200	10		05/21/16 05:0	06 67-64-1	
Allyl chloride	ND	ug/L	40.0	10		05/21/16 05:0	6 107-05-1	
Benzene	ND	ug/L	10.0	10		05/21/16 05:0	6 71-43-2	
Bromobenzene	ND	ug/L	10.0	10		05/21/16 05:0	6 108-86-1	
Bromochloromethane	ND	ug/L	10.0	10		05/21/16 05:0	6 74-97-5	
Bromodichloromethane	ND	ug/L	10.0	10		05/21/16 05:0	6 75-27-4	
Bromoform	ND	ug/L	40.0	10		05/21/16 05:0	6 75-25-2	
Bromomethane	ND	ug/L	40.0	10		05/21/16 05:0	6 74-83-9	
2-Butanone (MEK)	ND	ug/L	50.0	10		05/21/16 05:0	6 78-93-3	
n-Butylbenzene	ND	ug/L	10.0	10		05/21/16 05:0	6 104-51-8	
sec-Butylbenzene	ND	ug/L	10.0	10		05/21/16 05:0	6 135-98-8	
tert-Butylbenzene	ND	ug/L	10.0	10		05/21/16 05:0	6 98-06-6	
Carbon tetrachloride	ND	ug/L	10.0	10		05/21/16 05:0	6 56-23-5	
Chlorobenzene	ND	ug/L	10.0	10		05/21/16 05:0	6 108-90-7	
Chloroethane	ND	ug/L	10.0	10		05/21/16 05:0	6 75-00-3	
Chloroform	ND	ug/L	40.0	10		05/21/16 05:0	6 67-66-3	
Chloromethane	ND	ug/L	40.0	10		05/21/16 05:0	6 74-87-3	
2-Chlorotoluene	ND	ug/L	10.0	10		05/21/16 05:0	6 95-49-8	
4-Chlorotoluene	ND	ug/L	10.0	10		05/21/16 05:0	6 106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	40.0	10		05/21/16 05:0	6 96-12-8	
Dibromochloromethane	ND	ug/L	10.0	10		05/21/16 05:0	6 124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	10.0	10		05/21/16 05:0	6 106-93-4	
Dibromomethane	ND	ug/L	40.0	10		05/21/16 05:0	6 74-95-3	
1,2-Dichlorobenzene	ND	ug/L	10.0	10		05/21/16 05:0	6 95-50-1	
1,3-Dichlorobenzene	ND	ug/L	10.0	10		05/21/16 05:0	6 541-73-1	
1,4-Dichlorobenzene	ND	ug/L	10.0	10		05/21/16 05:0	6 106-46-7	
Dichlorodifluoromethane	ND	ug/L	10.0	10		05/21/16 05:0	6 75-71-8	
1,1-Dichloroethane	ND	ug/L	10.0	10		05/21/16 05:0	6 75-34-3	
1,2-Dichloroethane	ND	ug/L	10.0	10		05/21/16 05:0	6 107-06-2	
1,1-Dichloroethene	ND	ug/L	10.0	10		05/21/16 05:0	6 75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	10.0	10		05/21/16 05:0	6 156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	10.0	10		05/21/16 05:0		
Dichlorofluoromethane	ND	ug/L	10.0	10		05/21/16 05:0	6 75-43-4	
1,2-Dichloropropane	ND	ug/L	40.0	10		05/21/16 05:0	6 78-87-5	
1,3-Dichloropropane	ND	ug/L	10.0	10		05/21/16 05:0	6 142-28-9	
2,2-Dichloropropane	ND	ug/L	40.0	10		05/21/16 05:0	6 594-20-7	
1,1-Dichloropropene	ND	ug/L	10.0	10		05/21/16 05:0	6 563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	40.0	10		05/21/16 05:0	6 10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	40.0	10		05/21/16 05:0	6 10061-02-6	
Diethyl ether (Ethyl ether)	ND	ug/L	40.0	10		05/21/16 05:0	6 60-29-7	
Ethylbenzene	ND	ug/L	10.0	10		05/21/16 05:0		
Hexachloro-1,3-butadiene	ND	ug/L	10.0	10		05/21/16 05:0	6 87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	10.0	10		05/21/16 05:0	06 98-82-8	
p-Isopropyltoluene ,	ND	ug/L	10.0	10		05/21/16 05:0		
Methylene Chloride	ND	ug/L	40.0	10		05/21/16 05:0		
4-Methyl-2-pentanone (MIBK)	ND	ug/L	50.0	10		05/21/16 05:0		
Methyl-tert-butyl ether	ND	ug/L	10.0	10		05/21/16 05:0		





Project: CrC
Pace Project No.: 10348956

Sample: MW-16	Lab ID: 103	48956003	Collected: 05/17/1	16 16:50	Received: 0	5/18/16 16:43 N	Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260B VOC	Analytical Meth	od: EPA 82	260B					
Naphthalene	ND	ug/L	40.0	10		05/21/16 05:06	91-20-3	
n-Propylbenzene	ND	ug/L	10.0	10		05/21/16 05:06	103-65-1	
Styrene	ND	ug/L	10.0	10		05/21/16 05:06	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	10.0	10		05/21/16 05:06	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	10.0	10		05/21/16 05:06	79-34-5	
Tetrachloroethene	452	ug/L	10.0	10		05/21/16 05:06	127-18-4	
Tetrahydrofuran	ND	ug/L	100	10		05/21/16 05:06	109-99-9	
Toluene	ND	ug/L	10.0	10		05/21/16 05:06	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	10.0	10		05/21/16 05:06	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	10.0	10		05/21/16 05:06	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	10.0	10		05/21/16 05:06	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	10.0	10		05/21/16 05:06	79-00-5	
Trichloroethene	ND	ug/L	4.0	10		05/21/16 05:06	79-01-6	
Trichlorofluoromethane	ND	ug/L	10.0	10		05/21/16 05:06	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	40.0	10		05/21/16 05:06	96-18-4	
1,1,2-Trichlorotrifluoroethane	32.5	ug/L	10.0	10		05/21/16 05:06	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/L	10.0	10		05/21/16 05:06	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	10.0	10		05/21/16 05:06	108-67-8	
Vinyl chloride	ND	ug/L	4.0	10		05/21/16 05:06	75-01-4	
Xylene (Total)	ND	ug/L	30.0	10		05/21/16 05:06	1330-20-7	
Surrogates		•						
1,2-Dichloroethane-d4 (S)	98	%.	75-125	10		05/21/16 05:06	17060-07-0	
Toluene-d8 (S)	102	%.	75-125	10		05/21/16 05:06	2037-26-5	
4-Bromofluorobenzene (S)	97	%.	75-125	10		05/21/16 05:06	460-00-4	



# **ANALYTICAL RESULTS**

Project: CrC
Pace Project No.: 10348956

Date: 06/02/2016 07:27 AM

Sample: MW-17	Lab ID: 103	48956004	Collected: 05/18/1	6 11:05	Received:	05/18/16 16:43	Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qua
8260B VOC	Analytical Met	nod: EPA 82	260B					
Acetone	ND	ug/L	20.0	1		05/21/16 01:5	7 67-64-1	
Allyl chloride	ND	ug/L	4.0	1		05/21/16 01:5	7 107-05-1	
Benzene	ND	ug/L	1.0	1		05/21/16 01:5	7 71-43-2	
Bromobenzene	ND	ug/L	1.0	1		05/21/16 01:5	7 108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		05/21/16 01:5	7 74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		05/21/16 01:5	7 75-27-4	
Bromoform	ND	ug/L	4.0	1		05/21/16 01:5	7 75-25-2	
Bromomethane	ND	ug/L	4.0	1		05/21/16 01:5	7 74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	1		05/21/16 01:5	7 78-93-3	
n-Butylbenzene	ND	ug/L	1.0	1		05/21/16 01:5	7 104-51-8	
sec-Butylbenzene	ND	ug/L	1.0	1		05/21/16 01:5	7 135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	1		05/21/16 01:5	7 98-06-6	
Carbon tetrachloride	ND	ug/L	1.0	1		05/21/16 01:5	7 56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		05/21/16 01:5	7 108-90-7	
Chloroethane	ND	ug/L	1.0	1		05/21/16 01:5	7 75-00-3	
Chloroform	ND	ug/L	4.0	1		05/21/16 01:5		
Chloromethane	ND	ug/L	4.0	1		05/21/16 01:5		
2-Chlorotoluene	ND	ug/L	1.0	1		05/21/16 01:5		
4-Chlorotoluene	ND	ug/L	1.0	1		05/21/16 01:5		
1,2-Dibromo-3-chloropropane	ND	ug/L	4.0	1		05/21/16 01:5		
Dibromochloromethane	ND	ug/L	1.0	1		05/21/16 01:5		
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		05/21/16 01:5	_	
Dibromomethane	ND	ug/L	4.0	1		05/21/16 01:5		
1,2-Dichlorobenzene	ND	ug/L	1.0	1		05/21/16 01:5		
1,3-Dichlorobenzene	ND	ug/L	1.0	1		05/21/16 01:5		
1,4-Dichlorobenzene	ND	-	1.0	1		05/21/16 01:5		
Dichlorodifluoromethane	ND ND	ug/L	1.0	1		05/21/16 01:5		
1,1-Dichloroethane	ND ND	ug/L	1.0	1		05/21/16 01:5		
•		ug/L		1				
1,2-Dichloroethane	ND	ug/L	1.0			05/21/16 01:5		
1,1-Dichloroethene	ND	ug/L	1.0	1		05/21/16 01:5		
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		05/21/16 01:5		
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		05/21/16 01:5		
Dichlorofluoromethane	ND	ug/L	1.0	1		05/21/16 01:5		
1,2-Dichloropropane	ND	ug/L	4.0	1		05/21/16 01:5		
1,3-Dichloropropane	ND	ug/L	1.0	1		05/21/16 01:5		
2,2-Dichloropropane	ND	ug/L	4.0	1		05/21/16 01:5		
1,1-Dichloropropene	ND	ug/L	1.0	1		05/21/16 01:5		
cis-1,3-Dichloropropene	ND	ug/L	4.0	1			7 10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	4.0	1			7 10061-02-6	
Diethyl ether (Ethyl ether)	ND	ug/L	4.0	1		05/21/16 01:5		
Ethylbenzene	ND	ug/L	1.0	1		05/21/16 01:5		
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		05/21/16 01:5		
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		05/21/16 01:5		
p-Isopropyltoluene	ND	ug/L	1.0	1		05/21/16 01:5	7 99-87-6	
Methylene Chloride	ND	ug/L	4.0	1		05/21/16 01:5	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		05/21/16 01:5	7 108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		05/21/16 01:5	7 1634-04-4	





Project: CrC
Pace Project No.: 10348956

Sample: MW-17	Lab ID: 1034	48956004	Collected: 05/18/1	16 11:05	Received: 05/18/16 16:43	Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared Analyzed	CAS No.	Qua
8260B VOC	Analytical Meth	nod: EPA 82	260B				
Naphthalene	ND	ug/L	4.0	1	05/21/16 01:5	7 91-20-3	
n-Propylbenzene	ND	ug/L	1.0	1	05/21/16 01:5	7 103-65-1	
Styrene	ND	ug/L	1.0	1	05/21/16 01:5	7 100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1	05/21/16 01:5	7 630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1	05/21/16 01:5	7 79-34-5	
Tetrachloroethene	227	ug/L	1.0	1	05/21/16 01:5	7 127-18-4	
Tetrahydrofuran	ND	ug/L	10.0	1	05/21/16 01:5	7 109-99-9	
Toluene	ND	ug/L	1.0	1	05/21/16 01:5	7 108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1	05/21/16 01:5	7 87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1	05/21/16 01:5	7 120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1	05/21/16 01:5	7 71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1	05/21/16 01:5	7 79-00-5	
Trichloroethene	ND	ug/L	0.40	1	05/21/16 01:5	7 79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1	05/21/16 01:5	7 75-69-4	
1,2,3-Trichloropropane	ND	ug/L	4.0	1	05/21/16 01:5	7 96-18-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/L	1.0	1	05/21/16 01:5	7 76-13-1	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1	05/21/16 01:5	7 95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1	05/21/16 01:5	7 108-67-8	
Vinyl chloride	ND	ug/L	0.40	1	05/21/16 01:5	7 75-01-4	
Xylene (Total)	ND	ug/L	3.0	1	05/21/16 01:5	7 1330-20-7	
Surrogates							
1,2-Dichloroethane-d4 (S)	98	%.	75-125	1	05/21/16 01:5	7 17060-07-0	
Toluene-d8 (S)	103	%.	75-125	1	05/21/16 01:5	7 2037-26-5	
4-Bromofluorobenzene (S)	97	%.	75-125	1	05/21/16 01:5	7 460-00-4	



# **ANALYTICAL RESULTS**

Project: CrC
Pace Project No.: 10348956

Date: 06/02/2016 07:27 AM

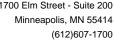
Sample: MW-18	Lab ID: 103	48956005	Collected: 05/18/1	6 11:30	Received:	05/18/16 16:43	Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qua
3260B VOC	Analytical Met	hod: EPA 82	260B					
Acetone	ND	ug/L	20.0	1		05/21/16 02:1	3 67-64-1	
Allyl chloride	ND	ug/L	4.0	1		05/21/16 02:1	3 107-05-1	
Benzene	ND	ug/L	1.0	1		05/21/16 02:1	3 71-43-2	
Bromobenzene	ND	ug/L	1.0	1		05/21/16 02:1	3 108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		05/21/16 02:1	3 74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		05/21/16 02:1	3 75-27-4	
Bromoform	ND	ug/L	4.0	1		05/21/16 02:1	3 75-25-2	
Bromomethane	ND	ug/L	4.0	1		05/21/16 02:1	3 74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	1		05/21/16 02:1		
n-Butylbenzene	ND	ug/L	1.0	1		05/21/16 02:1		
sec-Butylbenzene	ND	ug/L	1.0	1		05/21/16 02:1		
ert-Butylbenzene	ND	ug/L	1.0	1		05/21/16 02:1		
Carbon tetrachloride	ND	ug/L	1.0	1		05/21/16 02:1		
Chlorobenzene	ND	ug/L	1.0	1		05/21/16 02:1		
Chloroethane	ND	ug/L	1.0	1		05/21/16 02:1		
Chloroform	ND	ug/L	4.0	1		05/21/16 02:1		
Chloromethane	ND ND		4.0	1		05/21/16 02:1		
2-Chlorotoluene	ND ND	ug/L	1.0	1		05/21/16 02:1		
-Chlorotoluene	ND ND	ug/L	1.0	1		05/21/16 02:1		
		ug/L						
I,2-Dibromo-3-chloropropane	ND	ug/L	4.0	1		05/21/16 02:1		
Dibromochloromethane	ND	ug/L	1.0	1		05/21/16 02:1		
I,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		05/21/16 02:1		
Dibromomethane	ND	ug/L	4.0	1		05/21/16 02:1		
1,2-Dichlorobenzene	ND	ug/L	1.0	1		05/21/16 02:1		
1,3-Dichlorobenzene	ND	ug/L	1.0	1		05/21/16 02:1		
1,4-Dichlorobenzene	ND	ug/L	1.0	1		05/21/16 02:1		
Dichlorodifluoromethane	ND	ug/L	1.0	1		05/21/16 02:1		
1,1-Dichloroethane	ND	ug/L	1.0	1		05/21/16 02:1		
1,2-Dichloroethane	ND	ug/L	1.0	1		05/21/16 02:1		
,1-Dichloroethene	ND	ug/L	1.0	1		05/21/16 02:1		
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		05/21/16 02:1		
rans-1,2-Dichloroethene	ND	ug/L	1.0	1		05/21/16 02:1	3 156-60-5	
Dichlorofluoromethane	ND	ug/L	1.0	1		05/21/16 02:1	3 75-43-4	
1,2-Dichloropropane	ND	ug/L	4.0	1		05/21/16 02:1	3 78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		05/21/16 02:1	3 142-28-9	
2,2-Dichloropropane	ND	ug/L	4.0	1		05/21/16 02:1	3 594-20-7	
,1-Dichloropropene	ND	ug/L	1.0	1		05/21/16 02:1	3 563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	4.0	1		05/21/16 02:1	3 10061-01-5	
rans-1,3-Dichloropropene	ND	ug/L	4.0	1		05/21/16 02:1	3 10061-02-6	
Diethyl ether (Ethyl ether)	ND	ug/L	4.0	1		05/21/16 02:1	3 60-29-7	
Ethylbenzene	ND	ug/L	1.0	1		05/21/16 02:1	3 100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		05/21/16 02:1		
sopropylbenzene (Cumene)	ND	ug/L	1.0	1		05/21/16 02:1		
o-Isopropyltoluene	ND	ug/L	1.0	1		05/21/16 02:1		
Methylene Chloride	ND	ug/L	4.0	1		05/21/16 02:1		
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		05/21/16 02:1		
Methyl-tert-butyl ether	ND ND	ug/L	1.0	1		05/21/16 02:1		





Project: CrC
Pace Project No.: 10348956

Sample: MW-18	Lab ID: 103	48956005	Collected: 05/18/1	6 11:30	Received: 05	5/18/16 16:43 N	/latrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qua
8260B VOC	Analytical Meth	nod: EPA 82	260B					
Naphthalene	ND	ug/L	4.0	1		05/21/16 02:13	91-20-3	
n-Propylbenzene	ND	ug/L	1.0	1		05/21/16 02:13	103-65-1	
Styrene	ND	ug/L	1.0	1		05/21/16 02:13	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		05/21/16 02:13	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		05/21/16 02:13	79-34-5	
Tetrachloroethene	121	ug/L	1.0	1		05/21/16 02:13	127-18-4	
Tetrahydrofuran	ND	ug/L	10.0	1		05/21/16 02:13	109-99-9	
Toluene	ND	ug/L	1.0	1		05/21/16 02:13	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		05/21/16 02:13	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		05/21/16 02:13	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		05/21/16 02:13	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		05/21/16 02:13	79-00-5	
Trichloroethene	ND	ug/L	0.40	1		05/21/16 02:13	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		05/21/16 02:13	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	4.0	1		05/21/16 02:13	96-18-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/L	1.0	1		05/21/16 02:13	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1		05/21/16 02:13	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1		05/21/16 02:13	108-67-8	
Vinyl chloride	ND	ug/L	0.40	1		05/21/16 02:13	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		05/21/16 02:13	1330-20-7	
Surrogates								
1,2-Dichloroethane-d4 (S)	98	%.	75-125	1		05/21/16 02:13		
Toluene-d8 (S)	103	%.	75-125	1		05/21/16 02:13		
4-Bromofluorobenzene (S)	99	%.	75-125	1		05/21/16 02:13	460-00-4	





Project: CrC
Pace Project No.: 10348956

Date: 06/02/2016 07:27 AM

Sample: MW-19	Lab ID: 103	48956006	Collected: 05/17/1	6 13:45	Received:	05/18/16 16:43	Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260B VOC	Analytical Met	nod: EPA 82	260B					
Acetone	ND	ug/L	20.0	1		05/21/16 02:2	8 67-64-1	
Allyl chloride	ND	ug/L	4.0	1		05/21/16 02:2	8 107-05-1	
Benzene	ND	ug/L	1.0	1		05/21/16 02:2	8 71-43-2	
Bromobenzene	ND	ug/L	1.0	1		05/21/16 02:2	8 108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		05/21/16 02:2	8 74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		05/21/16 02:2	8 75-27-4	
Bromoform	ND	ug/L	4.0	1		05/21/16 02:2	8 75-25-2	
Bromomethane	ND	ug/L	4.0	1		05/21/16 02:2	8 74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	1		05/21/16 02:2	8 78-93-3	
n-Butylbenzene	ND	ug/L	1.0	1		05/21/16 02:2	8 104-51-8	
sec-Butylbenzene	ND	ug/L	1.0	1		05/21/16 02:2	8 135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	1		05/21/16 02:2	8 98-06-6	
Carbon tetrachloride	ND	ug/L	1.0	1		05/21/16 02:2	8 56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		05/21/16 02:2	8 108-90-7	
Chloroethane	ND	ug/L	1.0	1		05/21/16 02:2	8 75-00-3	
Chloroform	ND	ug/L	4.0	1		05/21/16 02:2		
Chloromethane	ND	ug/L	4.0	1		05/21/16 02:2		
2-Chlorotoluene	ND	ug/L	1.0	1		05/21/16 02:2		
4-Chlorotoluene	ND	ug/L	1.0	1		05/21/16 02:2		
1,2-Dibromo-3-chloropropane	ND	ug/L	4.0	1		05/21/16 02:2		
Dibromochloromethane	ND	ug/L	1.0	1		05/21/16 02:2		
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		05/21/16 02:2		
Dibromomethane	ND	ug/L	4.0	1		05/21/16 02:2		
1,2-Dichlorobenzene	ND	ug/L	1.0	1		05/21/16 02:2		
1,3-Dichlorobenzene	ND	ug/L ug/L	1.0	1		05/21/16 02:2		
1,4-Dichlorobenzene	ND	-	1.0	1		05/21/16 02:2		
Dichlorodifluoromethane	ND ND	ug/L	1.0	1		05/21/16 02:2		
1,1-Dichloroethane	ND ND	ug/L	1.0	1		05/21/16 02:2		
•		ug/L		1				
1,2-Dichloroethane	ND	ug/L	1.0			05/21/16 02:2		
1,1-Dichloroethene	ND	ug/L	1.0	1		05/21/16 02:2		
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		05/21/16 02:2		
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		05/21/16 02:2		
Dichlorofluoromethane	ND	ug/L	1.0	1		05/21/16 02:2		
1,2-Dichloropropane	ND	ug/L	4.0	1		05/21/16 02:2		
1,3-Dichloropropane	ND	ug/L	1.0	1		05/21/16 02:2		
2,2-Dichloropropane	ND	ug/L	4.0	1		05/21/16 02:2		
1,1-Dichloropropene	ND	ug/L	1.0	1		05/21/16 02:2		
cis-1,3-Dichloropropene	ND	ug/L	4.0	1			8 10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	4.0	1			8 10061-02-6	
Diethyl ether (Ethyl ether)	ND	ug/L	4.0	1		05/21/16 02:2		
Ethylbenzene	ND	ug/L	1.0	1		05/21/16 02:2		
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		05/21/16 02:2		
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		05/21/16 02:2		
p-Isopropyltoluene	ND	ug/L	1.0	1		05/21/16 02:2	8 99-87-6	
Methylene Chloride	ND	ug/L	4.0	1		05/21/16 02:2	8 75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		05/21/16 02:2	8 108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		05/21/16 02:2	8 1634-04-4	





Project: CrC
Pace Project No.: 10348956

Sample: MW-19	Lab ID: 103	48956006	Collected: 05/17/1	16 13:45	Received: 05	5/18/ <del>16 16:43</del> N	Natrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qua
8260B VOC	Analytical Meth	nod: EPA 82	260B					
Naphthalene	ND	ug/L	4.0	1		05/21/16 02:28	91-20-3	
n-Propylbenzene	ND	ug/L	1.0	1		05/21/16 02:28	103-65-1	
Styrene	ND	ug/L	1.0	1		05/21/16 02:28	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		05/21/16 02:28	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		05/21/16 02:28	79-34-5	
Tetrachloroethene	54.2	ug/L	1.0	1		05/21/16 02:28	127-18-4	
Tetrahydrofuran	ND	ug/L	10.0	1		05/21/16 02:28	109-99-9	
Toluene	ND	ug/L	1.0	1		05/21/16 02:28	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		05/21/16 02:28	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		05/21/16 02:28	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		05/21/16 02:28	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		05/21/16 02:28	79-00-5	
Trichloroethene	ND	ug/L	0.40	1		05/21/16 02:28	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		05/21/16 02:28	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	4.0	1		05/21/16 02:28	96-18-4	
1,1,2-Trichlorotrifluoroethane	1.1	ug/L	1.0	1		05/21/16 02:28	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1		05/21/16 02:28	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1		05/21/16 02:28	108-67-8	
Vinyl chloride	ND	ug/L	0.40	1		05/21/16 02:28	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		05/21/16 02:28	1330-20-7	
Surrogates 1,2-Dichloroethane-d4 (S)	99	%.	75-125	1		05/21/16 02:28	17060-07-0	
Toluene-d8 (S)	103	%.	75-125	1		05/21/16 02:28	2037-26-5	
4-Bromofluorobenzene (S)	99	%.	75-125	1		05/21/16 02:28	460-00-4	



# **ANALYTICAL RESULTS**

Project: CrC
Pace Project No.: 10348956

Date: 06/02/2016 07:27 AM

Sample: MW-20	Lab ID: 103	48956007	Collected: 05/17/1	6 16:05	Received:	05/18/16 16:43	Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qua
8260B VOC	Analytical Met	nod: EPA 82	260B					
Acetone	ND	ug/L	20.0	1		05/21/16 02:4	4 67-64-1	
Allyl chloride	ND	ug/L	4.0	1		05/21/16 02:4	4 107-05-1	
Benzene	ND	ug/L	1.0	1		05/21/16 02:4	4 71-43-2	
Bromobenzene	ND	ug/L	1.0	1		05/21/16 02:4	4 108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		05/21/16 02:4	4 74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		05/21/16 02:4	4 75-27-4	
Bromoform	ND	ug/L	4.0	1		05/21/16 02:4	4 75-25-2	
Bromomethane	ND	ug/L	4.0	1		05/21/16 02:4	4 74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	1		05/21/16 02:4	4 78-93-3	
n-Butylbenzene	ND	ug/L	1.0	1		05/21/16 02:4	4 104-51-8	
sec-Butylbenzene	ND	ug/L	1.0	1		05/21/16 02:4	4 135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	1		05/21/16 02:4	4 98-06-6	
Carbon tetrachloride	ND	ug/L	1.0	1		05/21/16 02:4	4 56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		05/21/16 02:4	4 108-90-7	
Chloroethane	ND	ug/L	1.0	1		05/21/16 02:4	4 75-00-3	
Chloroform	ND	ug/L	4.0	1		05/21/16 02:4	4 67-66-3	
Chloromethane	ND	ug/L	4.0	1		05/21/16 02:4	4 74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		05/21/16 02:4	4 95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		05/21/16 02:4	4 106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	4.0	1		05/21/16 02:4		
Dibromochloromethane	ND	ug/L	1.0	1		05/21/16 02:4	4 124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		05/21/16 02:4		
Dibromomethane	ND	ug/L	4.0	1		05/21/16 02:4	4 74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		05/21/16 02:4	4 95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		05/21/16 02:4		
1,4-Dichlorobenzene	ND	ug/L	1.0	1		05/21/16 02:4		
Dichlorodifluoromethane	ND	ug/L	1.0	1		05/21/16 02:4		
1,1-Dichloroethane	ND	ug/L	1.0	1		05/21/16 02:4		
1,2-Dichloroethane	ND	ug/L	1.0	1		05/21/16 02:4		
1,1-Dichloroethene	ND	ug/L	1.0	1		05/21/16 02:4		
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		05/21/16 02:4		
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		05/21/16 02:4		
Dichlorofluoromethane	ND	ug/L	1.0	1		05/21/16 02:4		
1,2-Dichloropropane	ND	ug/L	4.0	1		05/21/16 02:4		
1,3-Dichloropropane	ND	ug/L	1.0	1		05/21/16 02:4		
2,2-Dichloropropane	ND	ug/L	4.0	1		05/21/16 02:4		
1,1-Dichloropropene	ND	ug/L	1.0	1		05/21/16 02:4		
cis-1,3-Dichloropropene	ND	ug/L	4.0	1			4 10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	4.0	1			4 10061-02-6	
Diethyl ether (Ethyl ether)	ND	ug/L	4.0	1		05/21/16 02:4		
Ethylbenzene	ND	ug/L	1.0	1		05/21/16 02:4		
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		05/21/16 02:4		
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		05/21/16 02:4		
p-Isopropyltoluene	ND	ug/L	1.0	1		05/21/16 02:4		
Methylene Chloride	ND	ug/L	4.0	1		05/21/16 02:4		
4-Methyl-2-pentanone (MIBK)	ND ND	ug/L ug/L	5.0	1		05/21/16 02:4		





Project: CrC
Pace Project No.: 10348956

Sample: MW-20	Lab ID: 1034	48956007	Collected: 05/17/1	16 16:05	Received: 05/18/16 1	6:43 Matrix: Wa	ter
Parameters	Results	Units	Report Limit	DF	Prepared Ana	lyzed CAS N	No. Qua
8260B VOC	Analytical Meth	nod: EPA 82	260B				
Naphthalene	ND	ug/L	4.0	1	05/21/1	6 02:44 91-20-3	
n-Propylbenzene	ND	ug/L	1.0	1	05/21/1	6 02:44 103-65-	1
Styrene	ND	ug/L	1.0	1	05/21/1	6 02:44 100-42-	5
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1	05/21/1	6 02:44 630-20-6	6
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1	05/21/1	6 02:44 79-34-5	
Tetrachloroethene	23.2	ug/L	1.0	1	05/21/1	6 02:44 127-18-4	4
Tetrahydrofuran	ND	ug/L	10.0	1	05/21/1	6 02:44 109-99-9	9
Toluene	ND	ug/L	1.0	1	05/21/1	6 02:44 108-88-3	3
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1	05/21/1	6 02:44 87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1	05/21/1	6 02:44 120-82-	1
1,1,1-Trichloroethane	ND	ug/L	1.0	1	05/21/1	6 02:44 71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1	05/21/1	6 02:44 79-00-5	
Trichloroethene	ND	ug/L	0.40	1	05/21/1	6 02:44 79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1	05/21/1	6 02:44 75-69-4	
1,2,3-Trichloropropane	ND	ug/L	4.0	1	05/21/1	6 02:44 96-18-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/L	1.0	1	05/21/1	6 02:44 76-13-1	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1	05/21/1	6 02:44 95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1	05/21/1	6 02:44 108-67-8	3
Vinyl chloride	ND	ug/L	0.40	1	05/21/1	6 02:44 75-01-4	
Xylene (Total)	ND	ug/L	3.0	1	05/21/1	6 02:44 1330-20	-7
Surrogates		•					
1,2-Dichloroethane-d4 (S)	100	%.	75-125	1	05/21/1	6 02:44 17060-0	7-0
Toluene-d8 (S)	104	%.	75-125	1	05/21/1	6 02:44 2037-26	-5
4-Bromofluorobenzene (S)	97	%.	75-125	1	05/21/1	6 02:44 460-00-4	4

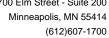


# **ANALYTICAL RESULTS**

Project: CrC
Pace Project No.: 10348956

Date: 06/02/2016 07:27 AM

Sample: DPE-1	Lab ID: 103	348956008	Collected: 05/18/1	6 10:40	Received:	05/18/16 16:43	Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qua
3260B VOC	Analytical Met	hod: EPA 82	260B					
Acetone	ND	ug/L	200	10		05/25/16 08:2	4 67-64-1	
Allyl chloride	ND	ug/L	40.0	10		05/25/16 08:2	4 107-05-1	
Benzene	ND	ug/L	10.0	10		05/25/16 08:2	4 71-43-2	
Bromobenzene	ND	ug/L	10.0	10		05/25/16 08:2	4 108-86-1	
Bromochloromethane	ND	ug/L	10.0	10		05/25/16 08:2	4 74-97-5	
Bromodichloromethane	ND	ug/L	10.0	10		05/25/16 08:2	4 75-27-4	
Bromoform	ND	ug/L	40.0	10		05/25/16 08:2	4 75-25-2	
Bromomethane	ND	ug/L	40.0	10		05/25/16 08:2	4 74-83-9	
2-Butanone (MEK)	ND	ug/L	50.0	10		05/25/16 08:2	4 78-93-3	
n-Butylbenzene	ND	ug/L	10.0	10		05/25/16 08:2	4 104-51-8	
sec-Butylbenzene	ND	ug/L	10.0	10		05/25/16 08:2	4 135-98-8	
ert-Butylbenzene	ND	ug/L	10.0	10		05/25/16 08:2	4 98-06-6	
Carbon tetrachloride	ND	ug/L	10.0	10		05/25/16 08:2	4 56-23-5	
Chlorobenzene	ND	ug/L	10.0	10		05/25/16 08:2	4 108-90-7	
Chloroethane	ND	ug/L	10.0	10		05/25/16 08:2	4 75-00-3	
Chloroform	ND	ug/L	10.0	10		05/25/16 08:2	4 67-66-3	
Chloromethane	ND	ug/L	40.0	10		05/25/16 08:2		
2-Chlorotoluene	ND	ug/L	10.0	10		05/25/16 08:2	4 95-49-8	
l-Chlorotoluene	ND	ug/L	10.0	10		05/25/16 08:2		
,2-Dibromo-3-chloropropane	ND	ug/L	100	10		05/25/16 08:2		
Dibromochloromethane	ND	ug/L	10.0	10		05/25/16 08:2		
1,2-Dibromoethane (EDB)	ND	ug/L	10.0	10		05/25/16 08:2	_	
Dibromomethane	ND	ug/L	40.0	10		05/25/16 08:2		
1,2-Dichlorobenzene	ND	ug/L	10.0	10		05/25/16 08:2		
1,3-Dichlorobenzene	ND	ug/L	10.0	10		05/25/16 08:2		
1,4-Dichlorobenzene	ND	ug/L	10.0	10		05/25/16 08:2		
Dichlorodifluoromethane	ND	ug/L	10.0	10		05/25/16 08:2		
1,1-Dichloroethane	ND	ug/L	10.0	10		05/25/16 08:2		
1,2-Dichloroethane	ND	ug/L	10.0	10		05/25/16 08:2		
1,1-Dichloroethene	ND	ug/L	10.0	10		05/25/16 08:2		
cis-1,2-Dichloroethene	ND	ug/L	10.0	10		05/25/16 08:2		
rans-1,2-Dichloroethene	ND	ug/L	10.0	10		05/25/16 08:2		
Dichlorofluoromethane	ND	ug/L	10.0	10		05/25/16 08:2		
1,2-Dichloropropane	ND	ug/L	40.0	10		05/25/16 08:2		
1,3-Dichloropropane	ND	ug/L	10.0	10		05/25/16 08:2		
2,2-Dichloropropane	ND	ug/L	40.0	10		05/25/16 08:2		
1,1-Dichloropropene	ND ND	ug/L	10.0	10		05/25/16 08:2		
cis-1,3-Dichloropropene	ND	ug/L	40.0	10			4 10061-01-5	
rans-1,3-Dichloropropene	ND	ug/L	40.0	10			4 10061-02-6	
Diethyl ether (Ethyl ether)	ND ND	ug/L	40.0	10		05/25/16 08:2		
Ethylbenzene	ND ND	ug/L	10.0	10		05/25/16 08:2		
Hexachloro-1,3-butadiene	ND ND	ug/L	40.0	10		05/25/16 08:2		
sopropylbenzene (Cumene)	ND ND	ug/L	10.0	10		05/25/16 08:2		
p-Isopropyltoluene	ND ND	ug/L	10.0	10		05/25/16 08:2		
Methylene Chloride	ND ND	ug/L	40.0	10		05/25/16 08:2		
1-Methyl-2-pentanone (MIBK)	ND ND	ug/L ug/L	50.0	10		05/25/16 08:2		





Project: CrC
Pace Project No.: 10348956

Sample: DPE-1	Lab ID: 1034	48956008	Collected: 05/18/1	6 10:40	Received: 05/18/16 16:43	Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared Analyzed	CAS No.	Qua
8260B VOC	Analytical Meth	od: EPA 82	260B				
Naphthalene	ND	ug/L	40.0	10	05/25/16 08:2	4 91-20-3	
n-Propylbenzene	ND	ug/L	10.0	10	05/25/16 08:2	4 103-65-1	
Styrene	ND	ug/L	10.0	10	05/25/16 08:2	4 100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	40.0	10	05/25/16 08:2	4 630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	10.0	10	05/25/16 08:2	4 79-34-5	
Tetrachloroethene	889	ug/L	10.0	10	05/25/16 08:2	4 127-18-4	
Tetrahydrofuran	ND	ug/L	100	10	05/25/16 08:2	4 109-99-9	
Toluene	ND	ug/L	10.0	10	05/25/16 08:2	4 108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	10.0	10	05/25/16 08:2	4 87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	10.0	10	05/25/16 08:2	4 120-82-1	
1,1,1-Trichloroethane	ND	ug/L	10.0	10	05/25/16 08:2	4 71-55-6	
1,1,2-Trichloroethane	ND	ug/L	10.0	10	05/25/16 08:2	4 79-00-5	
Trichloroethene	ND	ug/L	4.0	10	05/25/16 08:2	4 79-01-6	
Trichlorofluoromethane	ND	ug/L	10.0	10	05/25/16 08:2	4 75-69-4	
1,2,3-Trichloropropane	ND	ug/L	40.0	10	05/25/16 08:2	4 96-18-4	
1,1,2-Trichlorotrifluoroethane	58.9	ug/L	10.0	10	05/25/16 08:2	4 76-13-1	
1,2,4-Trimethylbenzene	ND	ug/L	10.0	10	05/25/16 08:2	4 95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	10.0	10	05/25/16 08:2	4 108-67-8	
Vinyl chloride	ND	ug/L	4.0	10	05/25/16 08:2	4 75-01-4	
Xylene (Total)	ND	ug/L	30.0	10	05/25/16 08:2	4 1330-20-7	
Surrogates							
1,2-Dichloroethane-d4 (S)	100	%.	75-125	10	05/25/16 08:2	4 17060-07-0	
Toluene-d8 (S)	99	%.	75-125	10	05/25/16 08:2	4 2037-26-5	
4-Bromofluorobenzene (S)	101	%.	75-125	10	05/25/16 08:2	4 460-00-4	



# **ANALYTICAL RESULTS**

Project: CrC
Pace Project No.: 10348956

Date: 06/02/2016 07:27 AM

Sample: DPE-2	Lab ID: 103	48956009	Collected: 05/18/1	6 10:15	Received: (	05/18/16 16:43	Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260B VOC	Analytical Met	hod: EPA 82	260B					
Acetone	ND	ug/L	200	10		05/25/16 16:10	0 67-64-1	
Allyl chloride	ND	ug/L	40.0	10		05/25/16 16:10	0 107-05-1	
Benzene	ND	ug/L	10.0	10		05/25/16 16:10	71-43-2	
Bromobenzene	ND	ug/L	10.0	10		05/25/16 16:10	0 108-86-1	
Bromochloromethane	ND	ug/L	10.0	10		05/25/16 16:10	74-97-5	
Bromodichloromethane	ND	ug/L	10.0	10		05/25/16 16:10	75-27-4	
Bromoform	ND	ug/L	40.0	10		05/25/16 16:10	75-25-2	
Bromomethane	ND	ug/L	40.0	10		05/25/16 16:10	74-83-9	
2-Butanone (MEK)	ND	ug/L	50.0	10		05/25/16 16:10	78-93-3	
n-Butylbenzene	ND	ug/L	10.0	10		05/25/16 16:10	0 104-51-8	
sec-Butylbenzene	ND	ug/L	10.0	10		05/25/16 16:10		
tert-Butylbenzene	ND	ug/L	10.0	10		05/25/16 16:10		
Carbon tetrachloride	ND	ug/L	10.0	10		05/25/16 16:10	56-23-5	
Chlorobenzene	ND	ug/L	10.0	10		05/25/16 16:10	0 108-90-7	
Chloroethane	ND	ug/L	10.0	10		05/25/16 16:10	75-00-3	
Chloroform	ND	ug/L	10.0	10		05/25/16 16:10		
Chloromethane	ND	ug/L	40.0	10		05/25/16 16:10		
2-Chlorotoluene	ND	ug/L	10.0	10		05/25/16 16:10		
4-Chlorotoluene	ND	ug/L	10.0	10		05/25/16 16:10		
1,2-Dibromo-3-chloropropane	ND	ug/L	100	10		05/25/16 16:10		
Dibromochloromethane	ND	ug/L	10.0	10		05/25/16 16:10		
1,2-Dibromoethane (EDB)	ND	ug/L	10.0	10		05/25/16 16:10	_	
Dibromomethane	ND	ug/L	40.0	10		05/25/16 16:10		
1,2-Dichlorobenzene	ND	ug/L	10.0	10		05/25/16 16:10		
1,3-Dichlorobenzene	ND	ug/L	10.0	10		05/25/16 16:10		
1,4-Dichlorobenzene	ND	ug/L	10.0	10		05/25/16 16:10		
Dichlorodifluoromethane	ND	ug/L	10.0	10		05/25/16 16:10		L3
1,1-Dichloroethane	ND	ug/L	10.0	10		05/25/16 16:10		
1,2-Dichloroethane	ND	ug/L	10.0	10		05/25/16 16:10		
1,1-Dichloroethene	ND	ug/L	10.0	10		05/25/16 16:10		
cis-1,2-Dichloroethene	ND	ug/L	10.0	10		05/25/16 16:10		
trans-1,2-Dichloroethene	ND	ug/L	10.0	10		05/25/16 16:10		
Dichlorofluoromethane	ND	ug/L	10.0	10		05/25/16 16:10		
1,2-Dichloropropane	ND	ug/L	40.0	10		05/25/16 16:10		
1,3-Dichloropropane	ND	ug/L	10.0	10		05/25/16 16:10		
2,2-Dichloropropane	ND	ug/L	40.0	10		05/25/16 16:10		
1,1-Dichloropropene	ND ND	ug/L ug/L	10.0	10		05/25/16 16:10		
cis-1,3-Dichloropropene	ND	ug/L	40.0	10		05/25/16 16:10		
trans-1,3-Dichloropropene	ND	ug/L	40.0	10		05/25/16 16:10		
Diethyl ether (Ethyl ether)	ND ND	ug/L ug/L	40.0	10		05/25/16 16:10		
Ethylbenzene	ND ND	ug/L ug/L	10.0	10		05/25/16 16:10		
Hexachloro-1,3-butadiene	ND ND	-	40.0	10		05/25/16 16:10		
Isopropylbenzene (Cumene)	ND ND	ug/L	10.0	10		05/25/16 16:10		
	ND ND	ug/L	10.0	10		05/25/16 16:10		
p-Isopropyltoluene		ug/L						
Methylene Chloride	ND	ug/L	40.0	10		05/25/16 16:10		
4-Methyl-2-pentanone (MIBK)	ND	ug/L	50.0	10		05/25/16 16:10		
Methyl-tert-butyl ether	ND	ug/L	10.0	10		05/25/16 16:10	J 1634-04-4	

# **REPORT OF LABORATORY ANALYSIS**

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Project: CrC
Pace Project No.: 10348956

Sample: DPE-2	Lab ID: 103	48956009	Collected: 05/18/1	6 10:15	Received: 05	5/18/16 16:43 N	Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260B VOC	Analytical Meth	nod: EPA 82	260B					
Naphthalene	ND	ug/L	40.0	10		05/25/16 16:10	91-20-3	
n-Propylbenzene	ND	ug/L	10.0	10		05/25/16 16:10	103-65-1	
Styrene	ND	ug/L	10.0	10		05/25/16 16:10	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	40.0	10		05/25/16 16:10	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	10.0	10		05/25/16 16:10	79-34-5	
Tetrachloroethene	1260	ug/L	10.0	10		05/25/16 16:10	127-18-4	
Tetrahydrofuran	ND	ug/L	100	10		05/25/16 16:10	109-99-9	
Toluene	ND	ug/L	10.0	10		05/25/16 16:10	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	10.0	10		05/25/16 16:10	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	10.0	10		05/25/16 16:10	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	10.0	10		05/25/16 16:10	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	10.0	10		05/25/16 16:10	79-00-5	
Trichloroethene	ND	ug/L	4.0	10		05/25/16 16:10	79-01-6	
Trichlorofluoromethane	ND	ug/L	10.0	10		05/25/16 16:10	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	40.0	10		05/25/16 16:10	96-18-4	
1,1,2-Trichlorotrifluoroethane	104	ug/L	10.0	10		05/25/16 16:10	76-13-1	
1,2,4-Trimethylbenzene	16.0	ug/L	10.0	10		05/25/16 16:10	95-63-6	
1,3,5-Trimethylbenzene	11.2	ug/L	10.0	10		05/25/16 16:10	108-67-8	
Vinyl chloride	ND	ug/L	4.0	10		05/25/16 16:10	75-01-4	
Xylene (Total)	ND	ug/L	30.0	10		05/25/16 16:10	1330-20-7	
Surrogates 1,2-Dichloroethane-d4 (S)	97	%.	75-125	10		05/25/16 16:10	17060-07-0	
Toluene-d8 (S)	101	%.	75-125	10		05/25/16 16:10		
4-Bromofluorobenzene (S)	99	%.	75-125	10		05/25/16 16:10		



# **ANALYTICAL RESULTS**

Project: CrC
Pace Project No.: 10348956

Date: 06/02/2016 07:27 AM

Sample: DPE-3	Lab ID: 103	48956010	Collected: 05/18/1	6 10:30	Received:	05/18/16 16:43	Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qua
8260B VOC	Analytical Met	hod: EPA 82	260B					
Acetone	ND	ug/L	400	20		05/25/16 09:2	8 67-64-1	
Allyl chloride	ND	ug/L	80.0	20		05/25/16 09:2	8 107-05-1	
Benzene	ND	ug/L	20.0	20		05/25/16 09:2	8 71-43-2	
Bromobenzene	ND	ug/L	20.0	20		05/25/16 09:2	8 108-86-1	
Bromochloromethane	ND	ug/L	20.0	20		05/25/16 09:2	8 74-97-5	
Bromodichloromethane	ND	ug/L	20.0	20		05/25/16 09:2	8 75-27-4	
Bromoform	ND	ug/L	80.0	20		05/25/16 09:2	8 75-25-2	
Bromomethane	ND	ug/L	80.0	20		05/25/16 09:2	8 74-83-9	
2-Butanone (MEK)	ND	ug/L	100	20		05/25/16 09:2	8 78-93-3	
n-Butylbenzene	ND	ug/L	20.0	20		05/25/16 09:2	8 104-51-8	
sec-Butylbenzene	ND	ug/L	20.0	20		05/25/16 09:2	8 135-98-8	
tert-Butylbenzene	ND	ug/L	20.0	20		05/25/16 09:2	8 98-06-6	
Carbon tetrachloride	ND	ug/L	20.0	20		05/25/16 09:2	8 56-23-5	
Chlorobenzene	ND	ug/L	20.0	20		05/25/16 09:2	8 108-90-7	
Chloroethane	ND	ug/L	20.0	20		05/25/16 09:2	8 75-00-3	
Chloroform	ND	ug/L	20.0	20		05/25/16 09:2	8 67-66-3	
Chloromethane	ND	ug/L	80.0	20		05/25/16 09:2	8 74-87-3	
2-Chlorotoluene	ND	ug/L	20.0	20		05/25/16 09:2	8 95-49-8	
4-Chlorotoluene	ND	ug/L	20.0	20		05/25/16 09:2		
1,2-Dibromo-3-chloropropane	ND	ug/L	200	20		05/25/16 09:2		
Dibromochloromethane	ND	ug/L	20.0	20		05/25/16 09:2		
1,2-Dibromoethane (EDB)	ND	ug/L	20.0	20		05/25/16 09:2		
Dibromomethane	ND	ug/L	80.0	20		05/25/16 09:2		
1,2-Dichlorobenzene	ND	ug/L	20.0	20		05/25/16 09:2		
1,3-Dichlorobenzene	ND	ug/L	20.0	20		05/25/16 09:2		
1,4-Dichlorobenzene	ND	ug/L	20.0	20		05/25/16 09:2		
Dichlorodifluoromethane	ND	ug/L	20.0	20		05/25/16 09:2		
1,1-Dichloroethane	ND	ug/L	20.0	20		05/25/16 09:2		
1,2-Dichloroethane	ND	ug/L	20.0	20		05/25/16 09:2		
1,1-Dichloroethene	ND	ug/L	20.0	20		05/25/16 09:2		
cis-1,2-Dichloroethene	ND	ug/L	20.0	20		05/25/16 09:2		
trans-1,2-Dichloroethene	ND	ug/L	20.0	20		05/25/16 09:2		
Dichlorofluoromethane	ND	ug/L	20.0	20		05/25/16 09:2		
1,2-Dichloropropane	ND	ug/L	80.0	20		05/25/16 09:2		
1,3-Dichloropropane	ND	ug/L	20.0	20		05/25/16 09:2		
2,2-Dichloropropane	ND	ug/L	80.0	20		05/25/16 09:2		
1,1-Dichloropropene	ND	ug/L	20.0	20		05/25/16 09:2		
cis-1,3-Dichloropropene	ND	ug/L	80.0	20			8 10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	80.0	20			8 10061-02-6	
Diethyl ether (Ethyl ether)	ND ND	ug/L	80.0	20		05/25/16 09:2		
Ethylbenzene	ND ND	ug/L	20.0	20		05/25/16 09:2		
Hexachloro-1,3-butadiene	ND ND	ug/L ug/L	80.0	20		05/25/16 09:2		
Isopropylbenzene (Cumene)	ND ND	ug/L	20.0	20		05/25/16 09:2		
p-Isopropyltoluene	ND ND	ug/L	20.0	20		05/25/16 09:2		
Methylene Chloride	ND ND	ug/L	80.0	20		05/25/16 09:2		
4-Methyl-2-pentanone (MIBK)	ND ND	ug/L ug/L	100	20		05/25/16 09:2		

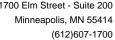




Project: CrC
Pace Project No.: 10348956

Date: 06/02/2016 07:27 AM

Sample: DPE-3	Lab ID: 103	48956010	Collected: 05/18/1	6 10:30	Received: 05/	18/16 16:43 N	Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260B VOC	Analytical Meth	nod: EPA 82	260B					
Naphthalene	ND	ug/L	80.0	20		05/25/16 09:28	91-20-3	
n-Propylbenzene	ND	ug/L	20.0	20		05/25/16 09:28	103-65-1	
Styrene	ND	ug/L	20.0	20		05/25/16 09:28	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	80.0	20		05/25/16 09:28	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	20.0	20		05/25/16 09:28	79-34-5	
Tetrachloroethene	2510	ug/L	20.0	20		05/25/16 09:28	127-18-4	
Tetrahydrofuran	ND	ug/L	200	20		05/25/16 09:28	109-99-9	
Toluene	ND	ug/L	20.0	20		05/25/16 09:28	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	20.0	20		05/25/16 09:28	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	20.0	20		05/25/16 09:28	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	20.0	20		05/25/16 09:28	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	20.0	20		05/25/16 09:28	79-00-5	
Trichloroethene	ND	ug/L	8.0	20		05/25/16 09:28	79-01-6	
Trichlorofluoromethane	ND	ug/L	20.0	20		05/25/16 09:28	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	80.0	20		05/25/16 09:28	96-18-4	
1,1,2-Trichlorotrifluoroethane	64.9	ug/L	20.0	20		05/25/16 09:28	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/L	20.0	20		05/25/16 09:28	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	20.0	20		05/25/16 09:28	108-67-8	
Vinyl chloride	ND	ug/L	8.0	20		05/25/16 09:28	75-01-4	
Xylene (Total)	ND	ug/L	60.0	20		05/25/16 09:28	1330-20-7	
Surrogates		-						
1,2-Dichloroethane-d4 (S)	100	%.	75-125	20		05/25/16 09:28	17060-07-0	
Toluene-d8 (S)	99	%.	75-125	20		05/25/16 09:28	2037-26-5	
4-Bromofluorobenzene (S)	101	%.	75-125	20		05/25/16 09:28	460-00-4	





Project: CrC
Pace Project No.: 10348956

Date: 06/02/2016 07:27 AM

Sample: DPE-4	Lab ID: 103	48956011	Collected: 05/18/1	6 10:00	Received:	05/18/16 16:43	Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qua
8260B VOC	Analytical Met	hod: EPA 82	260B					
Acetone	ND	ug/L	100	5		05/25/16 15:2	2 67-64-1	
Allyl chloride	ND	ug/L	20.0	5		05/25/16 15:2	2 107-05-1	
Benzene	ND	ug/L	5.0	5		05/25/16 15:2	2 71-43-2	
Bromobenzene	ND	ug/L	5.0	5		05/25/16 15:2	2 108-86-1	
Bromochloromethane	ND	ug/L	5.0	5		05/25/16 15:2	2 74-97-5	
Bromodichloromethane	ND	ug/L	5.0	5		05/25/16 15:2	2 75-27-4	
Bromoform	ND	ug/L	20.0	5		05/25/16 15:2	2 75-25-2	
Bromomethane	ND	ug/L	20.0	5		05/25/16 15:2	2 74-83-9	
2-Butanone (MEK)	ND	ug/L	25.0	5		05/25/16 15:2	2 78-93-3	
n-Butylbenzene	ND	ug/L	5.0	5		05/25/16 15:2	2 104-51-8	
sec-Butylbenzene	ND	ug/L	5.0	5		05/25/16 15:2	2 135-98-8	
tert-Butylbenzene	ND	ug/L	5.0	5		05/25/16 15:2	2 98-06-6	
Carbon tetrachloride	ND	ug/L	5.0	5		05/25/16 15:2	2 56-23-5	
Chlorobenzene	ND	ug/L	5.0	5		05/25/16 15:2	2 108-90-7	
Chloroethane	ND	ug/L	5.0	5		05/25/16 15:2		
Chloroform	ND	ug/L	5.0	5		05/25/16 15:2		
Chloromethane	ND	ug/L	20.0	5		05/25/16 15:2		
2-Chlorotoluene	ND	ug/L	5.0	5		05/25/16 15:2		
4-Chlorotoluene	ND	ug/L	5.0	5		05/25/16 15:2		
1,2-Dibromo-3-chloropropane	ND	ug/L	50.0	5		05/25/16 15:2		
Dibromochloromethane	ND	ug/L	5.0	5		05/25/16 15:2		
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	5		05/25/16 15:2	_	
Dibromomethane	ND	ug/L	20.0	5		05/25/16 15:2		
1,2-Dichlorobenzene	ND	ug/L	5.0	5		05/25/16 15:2		
1,3-Dichlorobenzene	ND ND	ug/L ug/L	5.0	5		05/25/16 15:2		
1,4-Dichlorobenzene	ND ND	ug/L ug/L	5.0	5		05/25/16 15:2		
Dichlorodifluoromethane	ND ND	ug/L ug/L	5.0	5		05/25/16 15:2		L3
1,1-Dichloroethane	ND ND	ug/L	5.0	5		05/25/16 15:2		LJ
1,2-Dichloroethane	ND	ug/L ug/L	5.0	5		05/25/16 15:2		
1,1-Dichloroethene	ND	_	5.0	5		05/25/16 15:2		
cis-1,2-Dichloroethene	ND ND	ug/L		5 5		05/25/16 15:2		
trans-1,2-Dichloroethene	ND ND	ug/L	5.0 5.0	5 5		05/25/16 15:2		
Dichlorofluoromethane	ND	ug/L	5.0	5		05/25/16 15:2		
		ug/L		5 5		05/25/16 15:2		
1,2-Dichloropropane	ND	ug/L	20.0					
1,3-Dichloropropane	ND	ug/L	5.0	5		05/25/16 15:2		
2,2-Dichloropropane	ND	ug/L	20.0	5		05/25/16 15:2		
1,1-Dichloropropene	ND	ug/L	5.0	5		05/25/16 15:2		
cis-1,3-Dichloropropene	ND	ug/L	20.0	5			2 10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	20.0	5			2 10061-02-6	
Diethyl ether (Ethyl ether)	ND	ug/L	20.0	5		05/25/16 15:2		
Ethylbenzene	ND	ug/L	5.0	5		05/25/16 15:2		
Hexachloro-1,3-butadiene	ND	ug/L	20.0	5		05/25/16 15:2		
sopropylbenzene (Cumene)	ND	ug/L	5.0	5		05/25/16 15:2		
o-Isopropyltoluene	ND	ug/L	5.0	5		05/25/16 15:2		
Methylene Chloride	ND	ug/L	20.0	5		05/25/16 15:2		
4-Methyl-2-pentanone (MIBK)	ND	ug/L	25.0	5		05/25/16 15:2		
Methyl-tert-butyl ether	ND	ug/L	5.0	5		05/25/16 15:2	2 1634-04-4	





Project: CrC
Pace Project No.: 10348956

Date: 06/02/2016 07:27 AM

Sample: DPE-4	Lab ID: 1034	48956011	Collected: 05/18/1	6 10:00	Received: 05/18/16 16:43	Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared Analyze	d CAS No.	Qua
8260B VOC	Analytical Meth	nod: EPA 82	260B				
Naphthalene	ND	ug/L	20.0	5	05/25/16 15	:22 91-20-3	
n-Propylbenzene	ND	ug/L	5.0	5	05/25/16 15	:22 103-65-1	
Styrene	ND	ug/L	5.0	5	05/25/16 15	:22 100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	20.0	5	05/25/16 15	:22 630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	5	05/25/16 15	:22 79-34-5	
Tetrachloroethene	724	ug/L	5.0	5	05/25/16 15	:22 127-18-4	
Tetrahydrofuran	ND	ug/L	50.0	5	05/25/16 15	:22 109-99-9	
Toluene	ND	ug/L	5.0	5	05/25/16 15	:22 108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	5.0	5	05/25/16 15	:22 87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	5	05/25/16 15	:22 120-82-1	
1,1,1-Trichloroethane	ND	ug/L	5.0	5	05/25/16 15	:22 71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	5	05/25/16 15	:22 79-00-5	
Trichloroethene	ND	ug/L	2.0	5	05/25/16 15	:22 79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	5	05/25/16 15	:22 75-69-4	
1,2,3-Trichloropropane	ND	ug/L	20.0	5	05/25/16 15	:22 96-18-4	
1,1,2-Trichlorotrifluoroethane	29.1	ug/L	5.0	5	05/25/16 15	:22 76-13-1	
1,2,4-Trimethylbenzene	ND	ug/L	5.0	5	05/25/16 15	:22 95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	5.0	5	05/25/16 15	:22 108-67-8	
Vinyl chloride	ND	ug/L	2.0	5	05/25/16 15	:22 75-01-4	
Xylene (Total)	ND	ug/L	15.0	5	05/25/16 15	:22 1330-20-7	
Surrogates		-					
1,2-Dichloroethane-d4 (S)	97	%.	75-125	5	05/25/16 15	:22 17060-07-0	
Toluene-d8 (S)	99	%.	75-125	5	05/25/16 15	:22 2037-26-5	
4-Bromofluorobenzene (S)	98	%.	75-125	5	05/25/16 15	:22 460-00-4	



## **ANALYTICAL RESULTS**

Project: CrC
Pace Project No.: 10348956

Date: 06/02/2016 07:27 AM

Sample: DPE-5	Lab ID: 103	48956012	Collected: 05/17/1	6 16:20	Received:	05/18/16 16:43	Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qua
3260B VOC	Analytical Meth	nod: EPA 82	260B					
Acetone	111	ug/L	40.0	2		05/21/16 04:50	67-64-1	
Allyl chloride	ND	ug/L	8.0	2		05/21/16 04:50	107-05-1	
Benzene	ND	ug/L	2.0	2		05/21/16 04:50	71-43-2	
Bromobenzene	ND	ug/L	2.0	2		05/21/16 04:50	108-86-1	
Bromochloromethane	ND	ug/L	2.0	2		05/21/16 04:50	74-97-5	
Bromodichloromethane	ND	ug/L	2.0	2		05/21/16 04:50	75-27-4	
Bromoform	ND	ug/L	8.0	2		05/21/16 04:50	75-25-2	
Bromomethane	ND	ug/L	8.0	2		05/21/16 04:50	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	2		05/21/16 04:50	78-93-3	
n-Butylbenzene	ND	ug/L	2.0	2		05/21/16 04:50		
sec-Butylbenzene	ND	ug/L	2.0	2		05/21/16 04:50		
ert-Butylbenzene	ND	ug/L	2.0	2		05/21/16 04:50		
Carbon tetrachloride	ND	ug/L	2.0	2		05/21/16 04:50		
Chlorobenzene	ND	ug/L	2.0	2		05/21/16 04:50		
Chloroethane	ND	ug/L	2.0	2		05/21/16 04:50		
Chloroform	ND	ug/L	8.0	2		05/21/16 04:50		
Chloromethane	ND ND	ug/L	8.0	2		05/21/16 04:50		
-Chlorotoluene	ND	ug/L	2.0	2		05/21/16 04:50		
-Chlorotoluene	ND ND		2.0	2		05/21/16 04:50		
	ND ND	ug/L	8.0	2		05/21/16 04:50		
,2-Dibromo-3-chloropropane		ug/L		2				
Dibromochloromethane	ND	ug/L	2.0			05/21/16 04:50		
I,2-Dibromoethane (EDB)	ND	ug/L	2.0	2		05/21/16 04:50		
Dibromomethane	ND	ug/L	8.0	2		05/21/16 04:50		
,2-Dichlorobenzene	ND	ug/L	2.0	2		05/21/16 04:50		
,3-Dichlorobenzene	ND	ug/L	2.0	2		05/21/16 04:50		
,4-Dichlorobenzene	ND	ug/L	2.0	2		05/21/16 04:50		
Dichlorodifluoromethane	ND	ug/L	2.0	2		05/21/16 04:50		
1,1-Dichloroethane	ND	ug/L	2.0	2		05/21/16 04:50		
,2-Dichloroethane	ND	ug/L	2.0	2		05/21/16 04:50		
1,1-Dichloroethene	ND	ug/L	2.0	2		05/21/16 04:50		
cis-1,2-Dichloroethene	ND	ug/L	2.0	2		05/21/16 04:50		
rans-1,2-Dichloroethene	ND	ug/L	2.0	2		05/21/16 04:50		
Dichlorofluoromethane	ND	ug/L	2.0	2		05/21/16 04:50	75-43-4	
,2-Dichloropropane	ND	ug/L	8.0	2		05/21/16 04:50	78-87-5	
,3-Dichloropropane	ND	ug/L	2.0	2		05/21/16 04:50	142-28-9	
2,2-Dichloropropane	ND	ug/L	8.0	2		05/21/16 04:50	594-20-7	
,1-Dichloropropene	ND	ug/L	2.0	2		05/21/16 04:50	563-58-6	
is-1,3-Dichloropropene	ND	ug/L	8.0	2		05/21/16 04:50	10061-01-5	
rans-1,3-Dichloropropene	ND	ug/L	8.0	2		05/21/16 04:50	10061-02-6	
Diethyl ether (Ethyl ether)	ND	ug/L	8.0	2		05/21/16 04:50	0 60-29-7	
Ethylbenzene	ND	ug/L	2.0	2		05/21/16 04:50	100-41-4	
lexachloro-1,3-butadiene	ND	ug/L	2.0	2		05/21/16 04:50	87-68-3	
sopropylbenzene (Cumene)	ND	ug/L	2.0	2		05/21/16 04:50	98-82-8	
o-Isopropyltoluene	ND	ug/L	2.0	2		05/21/16 04:50		
Methylene Chloride	ND	ug/L	8.0	2		05/21/16 04:50		
I-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	2		05/21/16 04:50		
Methyl-tert-butyl ether	ND	ug/L	2.0	2		05/21/16 04:50		





Project: CrC
Pace Project No.: 10348956

Date: 06/02/2016 07:27 AM

Sample: DPE-5	Lab ID: 1034	48956012	Collected: 05/17/1	16 16:20	Received: 05/18/16 16:43	Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared Analyzed	CAS No.	Qua
8260B VOC	Analytical Meth	nod: EPA 82	260B				
Naphthalene	ND	ug/L	8.0	2	05/21/16 04:50	91-20-3	
n-Propylbenzene	ND	ug/L	2.0	2	05/21/16 04:50	103-65-1	
Styrene	ND	ug/L	2.0	2	05/21/16 04:50	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	2.0	2	05/21/16 04:50	0 630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	2.0	2	05/21/16 04:50	79-34-5	
Tetrachloroethene	152	ug/L	2.0	2	05/21/16 04:50	) 127-18-4	
Tetrahydrofuran	ND	ug/L	20.0	2	05/21/16 04:50	109-99-9	
Toluene	ND	ug/L	2.0	2	05/21/16 04:50	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	2	05/21/16 04:50	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	2	05/21/16 04:50	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	2.0	2	05/21/16 04:50	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	2.0	2	05/21/16 04:50	79-00-5	
Trichloroethene	ND	ug/L	0.80	2	05/21/16 04:50	79-01-6	
Trichlorofluoromethane	ND	ug/L	2.0	2	05/21/16 04:50	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	8.0	2	05/21/16 04:50	96-18-4	
1,1,2-Trichlorotrifluoroethane	13.2	ug/L	2.0	2	05/21/16 04:50	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/L	2.0	2	05/21/16 04:50	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	2.0	2	05/21/16 04:50	108-67-8	
Vinyl chloride	ND	ug/L	0.80	2	05/21/16 04:50	75-01-4	
Xylene (Total)	ND	ug/L	6.0	2	05/21/16 04:50	1330-20-7	
Surrogates		•					
1,2-Dichloroethane-d4 (S)	97	%.	75-125	2	05/21/16 04:50	17060-07-0	
Toluene-d8 (S)	104	%.	75-125	2	05/21/16 04:50	2037-26-5	
4-Bromofluorobenzene (S)	95	%.	75-125	2	05/21/16 04:50	460-00-4	



## **ANALYTICAL RESULTS**

Project: CrC
Pace Project No.: 10348956

Date: 06/02/2016 07:27 AM

Sample: DPE-6	Lab ID: 103	48956013	Collected: 05/17/1	6 16:35	Received:	05/18/16 16:43	Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260B VOC	Analytical Met	nod: EPA 82	260B					
Acetone	ND	ug/L	20.0	1		05/21/16 04:1	8 67-64-1	
Allyl chloride	ND	ug/L	4.0	1		05/21/16 04:1	8 107-05-1	
Benzene	ND	ug/L	1.0	1		05/21/16 04:1	8 71-43-2	
Bromobenzene	ND	ug/L	1.0	1		05/21/16 04:1	8 108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		05/21/16 04:1	8 74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		05/21/16 04:1	8 75-27-4	
Bromoform	ND	ug/L	4.0	1		05/21/16 04:1	8 75-25-2	
Bromomethane	ND	ug/L	4.0	1		05/21/16 04:1	8 74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	1		05/21/16 04:1	8 78-93-3	
n-Butylbenzene	ND	ug/L	1.0	1		05/21/16 04:1	8 104-51-8	
sec-Butylbenzene	ND	ug/L	1.0	1		05/21/16 04:1	8 135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	1		05/21/16 04:1	8 98-06-6	
Carbon tetrachloride	ND	ug/L	1.0	1		05/21/16 04:1	8 56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		05/21/16 04:1	8 108-90-7	
Chloroethane	ND	ug/L	1.0	1		05/21/16 04:1		
Chloroform	ND	ug/L	4.0	1		05/21/16 04:1		
Chloromethane	ND	ug/L	4.0	1		05/21/16 04:1		
2-Chlorotoluene	ND	ug/L	1.0	1		05/21/16 04:1		
4-Chlorotoluene	ND	ug/L	1.0	1		05/21/16 04:1		
1,2-Dibromo-3-chloropropane	ND	ug/L	4.0	1		05/21/16 04:1		
Dibromochloromethane	ND	ug/L	1.0	1		05/21/16 04:1		
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		05/21/16 04:1		
Dibromomethane	ND	ug/L	4.0	1		05/21/16 04:1		
1,2-Dichlorobenzene	ND	ug/L	1.0	1		05/21/16 04:1		
	ND	-	1.0	1		05/21/16 04:1		
1,3-Dichlorobenzene		ug/L		1				
1,4-Dichlorobenzene Dichlorodifluoromethane	ND ND	ug/L	1.0 1.0	1		05/21/16 04:1 05/21/16 04:1		
1,1-Dichloroethane	ND ND	ug/L	1.0	1		05/21/16 04:1		
•		ug/L		1				
1,2-Dichloroethane	ND	ug/L	1.0			05/21/16 04:1		
1,1-Dichloroethene	ND	ug/L	1.0	1		05/21/16 04:1		
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		05/21/16 04:1		
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		05/21/16 04:1		
Dichlorofluoromethane	ND	ug/L	1.0	1		05/21/16 04:1		
1,2-Dichloropropane	ND	ug/L	4.0	1		05/21/16 04:1		
1,3-Dichloropropane	ND	ug/L	1.0	1		05/21/16 04:1		
2,2-Dichloropropane	ND	ug/L	4.0	1		05/21/16 04:1		
1,1-Dichloropropene	ND	ug/L	1.0	1		05/21/16 04:1		
cis-1,3-Dichloropropene	ND	ug/L	4.0	1			8 10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	4.0	1			8 10061-02-6	
Diethyl ether (Ethyl ether)	ND	ug/L	4.0	1		05/21/16 04:1		
Ethylbenzene	ND	ug/L	1.0	1		05/21/16 04:1		
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		05/21/16 04:1		
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		05/21/16 04:1		
p-Isopropyltoluene	ND	ug/L	1.0	1		05/21/16 04:1		
Methylene Chloride	ND	ug/L	4.0	1		05/21/16 04:1	8 75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		05/21/16 04:1	8 108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		05/21/16 04:1	8 1634-04-4	





Project: CrC
Pace Project No.: 10348956

Date: 06/02/2016 07:27 AM

Sample: DPE-6	Lab ID: 1034	48956013	Collected: 05/17/1	6 16:35	Received: 05/18/16 16:43	Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared Analyze	d CAS No.	Qua
8260B VOC	Analytical Meth	nod: EPA 82	260B				
Naphthalene	ND	ug/L	4.0	1	05/21/16 0	1:18 91-20-3	
n-Propylbenzene	ND	ug/L	1.0	1	05/21/16 0	1:18 103-65-1	
Styrene	ND	ug/L	1.0	1	05/21/16 0	1:18 100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1	05/21/16 0	1:18 630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1	05/21/16 0	1:18 79-34-5	
Tetrachloroethene	51.2	ug/L	1.0	1	05/21/16 0	1:18 127-18-4	
Tetrahydrofuran	ND	ug/L	10.0	1	05/21/16 0	1:18 109-99-9	
Toluene	ND	ug/L	1.0	1	05/21/16 0	1:18 108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1	05/21/16 0	1:18 87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1	05/21/16 0	1:18 120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1	05/21/16 0	1:18 71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1	05/21/16 0	1:18 79-00-5	
Trichloroethene	ND	ug/L	0.40	1	05/21/16 0	1:18 79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1	05/21/16 0	1:18 75-69-4	
1,2,3-Trichloropropane	ND	ug/L	4.0	1	05/21/16 0	1:18 96-18-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/L	1.0	1	05/21/16 0	1:18 76-13-1	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1	05/21/16 0	1:18 95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1	05/21/16 0	1:18 108-67-8	
Vinyl chloride	ND	ug/L	0.40	1	05/21/16 0	1:18 75-01-4	
Xylene (Total)	ND	ug/L	3.0	1	05/21/16 0	1:18 1330-20-7	
Surrogates							
1,2-Dichloroethane-d4 (S)	99	%.	75-125	1	05/21/16 0	1:18 17060-07-0	
Toluene-d8 (S)	101	%.	75-125	1	05/21/16 0	1:18 2037-26-5	
4-Bromofluorobenzene (S)	98	%.	75-125	1	05/21/16 0	1:18 460-00-4	



## **ANALYTICAL RESULTS**

Project: CrC
Pace Project No.: 10348956

Date: 06/02/2016 07:27 AM

Sample: DPE-7	Lab ID: 103	48956014	Collected: 05/17/1	16 15:15	Received: 0	05/18/16 16:43 N	Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260B VOC	Analytical Met	nod: EPA 82	260B					
Acetone	ND	ug/L	20.0	1		05/21/16 04:34	67-64-1	
Allyl chloride	ND	ug/L	4.0	1		05/21/16 04:34	107-05-1	
Benzene	ND	ug/L	1.0	1		05/21/16 04:34	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		05/21/16 04:34	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		05/21/16 04:34	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		05/21/16 04:34	75-27-4	
Bromoform	ND	ug/L	4.0	1		05/21/16 04:34	75-25-2	
Bromomethane	ND	ug/L	4.0	1		05/21/16 04:34	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	1		05/21/16 04:34	78-93-3	
n-Butylbenzene	ND	ug/L	1.0	1		05/21/16 04:34	104-51-8	
sec-Butylbenzene	ND	ug/L	1.0	1		05/21/16 04:34		
tert-Butylbenzene	ND	ug/L	1.0	1		05/21/16 04:34		
Carbon tetrachloride	ND	ug/L	1.0	1		05/21/16 04:34		
Chlorobenzene	ND	ug/L	1.0	1		05/21/16 04:34		
Chloroethane	ND	ug/L	1.0	1		05/21/16 04:34		
Chloroform	ND	ug/L	4.0	1		05/21/16 04:34		
Chloromethane	ND ND	ug/L	4.0	1		05/21/16 04:34		
2-Chlorotoluene	ND	ug/L	1.0	1		05/21/16 04:34		
4-Chlorotoluene	ND ND	•	1.0	1		05/21/16 04:34		
		ug/L		1				
1,2-Dibromo-3-chloropropane	ND	ug/L	4.0			05/21/16 04:34		
Dibromochloromethane	ND	ug/L	1.0	1 1		05/21/16 04:34	-	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0			05/21/16 04:34		
Dibromomethane	ND	ug/L	4.0	1		05/21/16 04:34		
1,2-Dichlorobenzene	ND	ug/L	1.0	1		05/21/16 04:34		
1,3-Dichlorobenzene	ND	ug/L	1.0	1		05/21/16 04:34		
1,4-Dichlorobenzene	ND	ug/L	1.0	1		05/21/16 04:34		
Dichlorodifluoromethane	ND	ug/L	1.0	1		05/21/16 04:34		
1,1-Dichloroethane	ND	ug/L	1.0	1		05/21/16 04:34		
1,2-Dichloroethane	ND	ug/L	1.0	1		05/21/16 04:34		
1,1-Dichloroethene	ND	ug/L	1.0	1		05/21/16 04:34		
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		05/21/16 04:34		
rans-1,2-Dichloroethene	ND	ug/L	1.0	1		05/21/16 04:34		
Dichlorofluoromethane	ND	ug/L	1.0	1		05/21/16 04:34	75-43-4	
1,2-Dichloropropane	ND	ug/L	4.0	1		05/21/16 04:34	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		05/21/16 04:34		
2,2-Dichloropropane	ND	ug/L	4.0	1		05/21/16 04:34	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		05/21/16 04:34	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	4.0	1		05/21/16 04:34	10061-01-5	
rans-1,3-Dichloropropene	ND	ug/L	4.0	1		05/21/16 04:34	10061-02-6	
Diethyl ether (Ethyl ether)	ND	ug/L	4.0	1		05/21/16 04:34	60-29-7	
Ethylbenzene	ND	ug/L	1.0	1		05/21/16 04:34	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		05/21/16 04:34	87-68-3	
sopropylbenzene (Cumene)	ND	ug/L	1.0	1		05/21/16 04:34	98-82-8	
p-Isopropyltoluene	ND	ug/L	1.0	1		05/21/16 04:34		
Methylene Chloride	ND	ug/L	4.0	1		05/21/16 04:34		
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		05/21/16 04:34		
Methyl-tert-butyl ether	ND	ug/L	1.0	1		05/21/16 04:34		

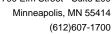




Project: CrC
Pace Project No.: 10348956

Date: 06/02/2016 07:27 AM

Sample: DPE-7	Lab ID: 103	48956014	Collected: 05/17/1	16 15:15	Received: 05/18/16 16:43	Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared Analyzed	CAS No.	Qua
8260B VOC	Analytical Meth	nod: EPA 82	260B				
Naphthalene	ND	ug/L	4.0	1	05/21/16 04:	34 91-20-3	
n-Propylbenzene	ND	ug/L	1.0	1	05/21/16 04:	34 103-65-1	
Styrene	ND	ug/L	1.0	1	05/21/16 04:	34 100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1	05/21/16 04:	34 630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1	05/21/16 04:	34 79-34-5	
Tetrachloroethene	37.0	ug/L	1.0	1	05/21/16 04:	34 127-18-4	
Tetrahydrofuran	ND	ug/L	10.0	1	05/21/16 04:	34 109-99-9	
Toluene	ND	ug/L	1.0	1	05/21/16 04:	34 108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1	05/21/16 04:	34 87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1	05/21/16 04:	34 120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1	05/21/16 04:	34 71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1	05/21/16 04:	34 79-00-5	
Trichloroethene	ND	ug/L	0.40	1	05/21/16 04:	34 79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1	05/21/16 04:	34 75-69-4	
1,2,3-Trichloropropane	ND	ug/L	4.0	1	05/21/16 04:	34 96-18-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/L	1.0	1	05/21/16 04:	34 76-13-1	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1	05/21/16 04:	34 95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1	05/21/16 04:	34 108-67-8	
Vinyl chloride	ND	ug/L	0.40	1	05/21/16 04:	34 75-01-4	
Xylene (Total)	ND	ug/L	3.0	1	05/21/16 04:	34 1330-20-7	
Surrogates							
1,2-Dichloroethane-d4 (S)	99	%.	75-125	1		34 17060-07-0	
Toluene-d8 (S)	102	%.	75-125	1		34 2037-26-5	
4-Bromofluorobenzene (S)	98	%.	75-125	1	05/21/16 04:	34 460-00-4	





Project: CrC
Pace Project No.: 10348956

Date: 06/02/2016 07:27 AM

Sample: DPE-8	Lab ID: 103	48956015	Collected: 05/18/1	6 09:40	Received:	05/18/16 16:43	Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qua
3260B VOC	Analytical Met	hod: EPA 82	260B					
Acetone	ND	ug/L	200	10		05/25/16 08:5	6 67-64-1	
Allyl chloride	ND	ug/L	40.0	10		05/25/16 08:5	6 107-05-1	
Benzene	ND	ug/L	10.0	10		05/25/16 08:5	6 71-43-2	
Bromobenzene	ND	ug/L	10.0	10		05/25/16 08:5	6 108-86-1	
Bromochloromethane	ND	ug/L	10.0	10		05/25/16 08:5	6 74-97-5	
Bromodichloromethane	ND	ug/L	10.0	10		05/25/16 08:5	6 75-27-4	
Bromoform	ND	ug/L	40.0	10		05/25/16 08:5	6 75-25-2	
Bromomethane	ND	ug/L	40.0	10		05/25/16 08:5	6 74-83-9	
2-Butanone (MEK)	ND	ug/L	50.0	10		05/25/16 08:5	6 78-93-3	
n-Butylbenzene	ND	ug/L	10.0	10		05/25/16 08:5	6 104-51-8	
sec-Butylbenzene	ND	ug/L	10.0	10		05/25/16 08:5	6 135-98-8	
ert-Butylbenzene	ND	ug/L	10.0	10		05/25/16 08:5	6 98-06-6	
Carbon tetrachloride	ND	ug/L	10.0	10		05/25/16 08:5	6 56-23-5	
Chlorobenzene	ND	ug/L	10.0	10		05/25/16 08:5	6 108-90-7	
Chloroethane	ND	ug/L	10.0	10		05/25/16 08:5	6 75-00-3	
Chloroform	ND	ug/L	10.0	10		05/25/16 08:5	6 67-66-3	
Chloromethane	ND	ug/L	40.0	10		05/25/16 08:5	6 74-87-3	
2-Chlorotoluene	ND	ug/L	10.0	10		05/25/16 08:5		
I-Chlorotoluene	ND	ug/L	10.0	10		05/25/16 08:5		
1,2-Dibromo-3-chloropropane	ND	ug/L	100	10		05/25/16 08:5		
Dibromochloromethane	ND	ug/L	10.0	10		05/25/16 08:5		
I,2-Dibromoethane (EDB)	ND	ug/L	10.0	10		05/25/16 08:5		
Dibromomethane	ND	ug/L	40.0	10		05/25/16 08:5		
I,2-Dichlorobenzene	ND	ug/L	10.0	10		05/25/16 08:5		
I,3-Dichlorobenzene	ND	ug/L	10.0	10		05/25/16 08:5		
,4-Dichlorobenzene	ND	ug/L	10.0	10		05/25/16 08:5		
Dichlorodifluoromethane	ND	ug/L	10.0	10		05/25/16 08:5		
I,1-Dichloroethane	ND	ug/L	10.0	10		05/25/16 08:5		
I,2-Dichloroethane	ND	ug/L	10.0	10		05/25/16 08:5		
1,1-Dichloroethene	ND	ug/L	10.0	10		05/25/16 08:5		
cis-1,2-Dichloroethene	ND	ug/L	10.0	10		05/25/16 08:5		
rans-1,2-Dichloroethene	ND	ug/L	10.0	10		05/25/16 08:5		
Dichlorofluoromethane	ND	ug/L	10.0	10		05/25/16 08:5		
I,2-Dichloropropane	ND	ug/L	40.0	10		05/25/16 08:5		
1,3-Dichloropropane	ND	ug/L	10.0	10		05/25/16 08:5		
2,2-Dichloropropane	ND	ug/L	40.0	10		05/25/16 08:5		
I,1-Dichloropropene	ND	ug/L	10.0	10		05/25/16 08:5		
cis-1,3-Dichloropropene	ND	ug/L	40.0	10		05/25/16 08:5		
rans-1,3-Dichloropropene	ND	ug/L	40.0	10			6 10061-02-6	
Diethyl ether (Ethyl ether)	ND	ug/L	40.0	10		05/25/16 08:5		
Ethylbenzene	ND	ug/L	10.0	10		05/25/16 08:5		
Hexachloro-1,3-butadiene	ND ND	ug/L ug/L	40.0	10		05/25/16 08:5		
sopropylbenzene (Cumene)	ND	ug/L	10.0	10		05/25/16 08:5		
p-Isopropyltoluene	ND	ug/L ug/L	10.0	10		05/25/16 08:5		
Methylene Chloride	ND	ug/L	40.0	10		05/25/16 08:5		
I-Methyl-2-pentanone (MIBK)	ND ND	ug/L ug/L	50.0	10		05/25/16 08:5		

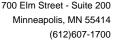




Project: CrC
Pace Project No.: 10348956

Date: 06/02/2016 07:27 AM

Sample: DPE-8	Lab ID: 1034	48956015	Collected: 05/18/1	6 09:40	Received: 05/18/16 16:43	Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared Analyzed	CAS No.	Qua
8260B VOC	Analytical Meth	nod: EPA 82	260B				
Naphthalene	ND	ug/L	40.0	10	05/25/16 08:50	6 91-20-3	
n-Propylbenzene	ND	ug/L	10.0	10	05/25/16 08:50	6 103-65-1	
Styrene	ND	ug/L	10.0	10	05/25/16 08:50	6 100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	40.0	10	05/25/16 08:50	6 630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	10.0	10	05/25/16 08:50	6 79-34-5	
Tetrachloroethene	808	ug/L	10.0	10	05/25/16 08:50	6 127-18-4	
Tetrahydrofuran	ND	ug/L	100	10	05/25/16 08:50	6 109-99-9	
Toluene	ND	ug/L	10.0	10	05/25/16 08:50	6 108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	10.0	10	05/25/16 08:50	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	10.0	10	05/25/16 08:50	6 120-82-1	
1,1,1-Trichloroethane	ND	ug/L	10.0	10	05/25/16 08:50	6 71-55-6	
1,1,2-Trichloroethane	ND	ug/L	10.0	10	05/25/16 08:50	6 79-00-5	
Trichloroethene	ND	ug/L	4.0	10	05/25/16 08:50	6 79-01-6	
Trichlorofluoromethane	ND	ug/L	10.0	10	05/25/16 08:50	5 75-69-4	
1,2,3-Trichloropropane	ND	ug/L	40.0	10	05/25/16 08:50	6 96-18-4	
1,1,2-Trichlorotrifluoroethane	87.9	ug/L	10.0	10	05/25/16 08:50	6 76-13-1	
1,2,4-Trimethylbenzene	ND	ug/L	10.0	10	05/25/16 08:50	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	10.0	10	05/25/16 08:50	6 108-67-8	
Vinyl chloride	ND	ug/L	4.0	10	05/25/16 08:50	6 75-01-4	
Xylene (Total)	ND	ug/L	30.0	10	05/25/16 08:50	6 1330-20-7	
Surrogates		-					
1,2-Dichloroethane-d4 (S)	100	%.	75-125	10	05/25/16 08:50	6 17060-07-0	
Toluene-d8 (S)	100	%.	75-125	10	05/25/16 08:50	6 2037-26-5	
4-Bromofluorobenzene (S)	99	%.	75-125	10	05/25/16 08:50	6 460-00-4	





Project: CrC
Pace Project No.: 10348956

Date: 06/02/2016 07:27 AM

Sample: Influent	Lab ID: 10	0348956016	Collected: 05/18/1	6 11:10	Received: 0	5/18/16 16:43 M	fatrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
624 MSV	Analytical Mo	ethod: EPA 62	24					
Acetone	25.2	ug/L	20.0	1		05/31/16 10:52	67-64-1	N2
Allyl chloride	ND	ug/L	4.0	1		05/31/16 10:52	107-05-1	N2
Benzene	ND	ug/L	1.0	1		05/31/16 10:52	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		05/31/16 10:52	108-86-1	N2
Bromochloromethane	ND	ug/L	4.0	1		05/31/16 10:52	74-97-5	N2
Bromodichloromethane	ND	ug/L	1.0	1		05/31/16 10:52	75-27-4	
Bromoform	ND	ug/L	4.0	1		05/31/16 10:52	75-25-2	
Bromomethane	ND	ug/L	4.0	1		05/31/16 10:52	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	1		05/31/16 10:52	78-93-3	N2
n-Butylbenzene	ND	ug/L	1.0	1		05/31/16 10:52	104-51-8	N2
sec-Butylbenzene	ND	ug/L	1.0	1		05/31/16 10:52	135-98-8	N2
tert-Butylbenzene	ND	ug/L	1.0	1		05/31/16 10:52	98-06-6	
Carbon tetrachloride	ND	ug/L	4.0	1		05/31/16 10:52	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		05/31/16 10:52	108-90-7	
Chloroethane	ND	ug/L	1.0	1		05/31/16 10:52	75-00-3	
2-Chloroethylvinyl ether	ND	ug/L	10.0	1		05/31/16 10:52		P5,c2
Chloroform	ND	ug/L	1.0	1		05/31/16 10:52	67-66-3	•
Chloromethane	ND	ug/L	4.0	1		05/31/16 10:52	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		05/31/16 10:52	95-49-8	N2
4-Chlorotoluene	ND	ug/L	1.0	1		05/31/16 10:52		N2
1,2-Dibromo-3-chloropropane	ND	ug/L	4.0	1		05/31/16 10:52		N2
Dibromochloromethane	ND	ug/L	4.0	1		05/31/16 10:52		N2
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		05/31/16 10:52		N2
Dibromomethane	ND	ug/L	4.0	1		05/31/16 10:52		
1,2-Dichlorobenzene	ND	ug/L	1.0	1		05/31/16 10:52		
1,3-Dichlorobenzene	ND	ug/L	1.0	1		05/31/16 10:52		
1,4-Dichlorobenzene	ND	ug/L	1.0	1		05/31/16 10:52		
Dichlorodifluoromethane	ND	ug/L	1.0	1		05/31/16 10:52		N2
1,1-Dichloroethane	ND	ug/L	1.0	1		05/31/16 10:52		
1,2-Dichloroethane	ND	ug/L	1.0	1		05/31/16 10:52		
1,1-Dichloroethene	ND	ug/L	1.0	1		05/31/16 10:52		
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		05/31/16 10:52		N2
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		05/31/16 10:52		
Dichlorofluoromethane	ND	ug/L	1.0	1		05/31/16 10:52		N2
1,2-Dichloropropane	ND	ug/L	4.0	1		05/31/16 10:52		
1,3-Dichloropropane	ND	ug/L	1.0	1		05/31/16 10:52		
2,2-Dichloropropane	ND	ug/L	4.0	1		05/31/16 10:52		N2
1,1-Dichloropropene	ND	ug/L	1.0	1		05/31/16 10:52		N2
cis-1,3-Dichloropropene	ND	ug/L	4.0	1		05/31/16 10:52		142
trans-1,3-Dichloropropene	ND	ug/L	4.0	1		05/31/16 10:52		N2
Diethyl ether (Ethyl ether)	ND ND	ug/L	4.0	1		05/31/16 10:52		N2
Ethylbenzene	ND ND	ug/L ug/L	1.0	1		05/31/16 10:52		1 1/2
Hexachloro-1,3-butadiene	ND ND	ug/L ug/L	1.0	1		05/31/16 10:52		N2
Isopropylbenzene (Cumene)	ND ND	ug/L ug/L	1.0	1		05/31/16 10:52		114
p-Isopropyltoluene	ND ND	ug/L ug/L	1.0	1		05/31/16 10:52 05/31/16 10:52		N2
Methylene Chloride	ND ND	•		1		05/31/16 10:52 05/31/16 10:52		INZ
		ug/L	4.0					NO
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		05/31/16 10:52	108-10-1	N2



Project: CrC
Pace Project No.: 10348956

Date: 06/02/2016 07:27 AM

Sample: Influent	Lab ID: 103	48956016	Collected: 05/18/1	6 11:10	Received: 0	5/18/16 16:43 N	Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qua
624 MSV	Analytical Meth	nod: EPA 62	24					
Methyl-tert-butyl ether	ND	ug/L	1.0	1		05/31/16 10:52	1634-04-4	N2
Naphthalene	ND	ug/L	4.0	1		05/31/16 10:52	91-20-3	N2
n-Propylbenzene	ND	ug/L	1.0	1		05/31/16 10:52	103-65-1	N2
Styrene	ND	ug/L	1.0	1		05/31/16 10:52	100-42-5	N2
1,1,1,2-Tetrachloroethane	ND	ug/L	4.0	1		05/31/16 10:52	630-20-6	N2
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		05/31/16 10:52	79-34-5	
Tetrachloroethene	3.1	ug/L	1.0	1		05/31/16 10:52	127-18-4	
Tetrahydrofuran	ND	ug/L	10.0	1		05/31/16 10:52	109-99-9	N2
Toluene	ND	ug/L	1.0	1		05/31/16 10:52	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		05/31/16 10:52	87-61-6	N2
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		05/31/16 10:52	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		05/31/16 10:52	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		05/31/16 10:52	79-00-5	
Trichloroethene	ND	ug/L	0.40	1		05/31/16 10:52	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		05/31/16 10:52	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	4.0	1		05/31/16 10:52	96-18-4	N2
1,1,2-Trichlorotrifluoroethane	ND	ug/L	1.0	1		05/31/16 10:52	76-13-1	N2
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1		05/31/16 10:52	95-63-6	N2
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1		05/31/16 10:52	108-67-8	N2
Vinyl chloride	ND	ug/L	1.0	1		05/31/16 10:52	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		05/31/16 10:52	1330-20-7	N2
m&p-Xylene	ND	ug/L	2.0	1		05/31/16 10:52	179601-23-1	N2
o-Xylene	ND	ug/L	1.0	1		05/31/16 10:52	95-47-6	N2
Surrogates		-						
1,2-Dichloroethane-d4 (S)	102	%.	75-125	1		05/31/16 10:52	17060-07-0	
Toluene-d8 (S)	97	%.	75-125	1		05/31/16 10:52	2037-26-5	
4-Bromofluorobenzene (S)	100	%.	75-125	1		05/31/16 10:52	460-00-4	



## **ANALYTICAL RESULTS**

Project: CrC
Pace Project No.: 10348956

Date: 06/02/2016 07:27 AM

Sample: Effluent	Lab ID: 1	0348956017	Collected: 05/18/	16 11:15	Received:	05/18/16 16:43	Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qua
624 MSV	Analytical M	lethod: EPA 62	24					
Acetone	44.5	ug/L	20.0	1		05/31/16 11:15	67-64-1	N2
Allyl chloride	ND	ug/L	4.0	1		05/31/16 11:15	107-05-1	N2
Benzene	ND	ug/L	1.0	1		05/31/16 11:15	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		05/31/16 11:15	108-86-1	N2
Bromochloromethane	ND	ug/L	4.0	1		05/31/16 11:15	74-97-5	N2
Bromodichloromethane	ND	ug/L	1.0	1		05/31/16 11:15	75-27-4	
Bromoform	ND	ug/L	4.0	1		05/31/16 11:15	75-25-2	
Bromomethane	ND	ug/L	4.0	1		05/31/16 11:15	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	1		05/31/16 11:15	78-93-3	N2
n-Butylbenzene	ND	ug/L	1.0	1		05/31/16 11:15	104-51-8	N2
sec-Butylbenzene	ND	ug/L	1.0	1		05/31/16 11:15	135-98-8	N2
tert-Butylbenzene	ND	ug/L	1.0	1		05/31/16 11:15	98-06-6	
Carbon tetrachloride	ND	ug/L	4.0	1		05/31/16 11:15	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		05/31/16 11:15	108-90-7	
Chloroethane	ND	ug/L	1.0	1		05/31/16 11:15	75-00-3	
2-Chloroethylvinyl ether	ND	ug/L	10.0	1		05/31/16 11:15	110-75-8	c2
Chloroform	ND	ug/L	1.0	1		05/31/16 11:15	67-66-3	
Chloromethane	ND	ug/L	4.0	1		05/31/16 11:15	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		05/31/16 11:15		N2
4-Chlorotoluene	ND	ug/L	1.0	1		05/31/16 11:15		N2
1,2-Dibromo-3-chloropropane	ND	ug/L	4.0	1		05/31/16 11:15		N2
Dibromochloromethane	ND	ug/L	4.0	1		05/31/16 11:15		N2
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		05/31/16 11:15		N2
Dibromomethane	ND	ug/L	4.0	1		05/31/16 11:15		
1,2-Dichlorobenzene	ND	ug/L	1.0	1		05/31/16 11:15		
1,3-Dichlorobenzene	ND	ug/L	1.0	1		05/31/16 11:15		
1,4-Dichlorobenzene	ND ND	ug/L	1.0	1		05/31/16 11:15		
Dichlorodifluoromethane	ND	ug/L	1.0	1		05/31/16 11:15		N2
1,1-Dichloroethane	ND ND	ug/L	1.0	1		05/31/16 11:15		112
1,2-Dichloroethane	ND ND	ug/L	1.0	1		05/31/16 11:15		
1,1-Dichloroethene	ND ND	ug/L ug/L	1.0	1		05/31/16 11:15		
cis-1,2-Dichloroethene	ND ND	ug/L ug/L	1.0	1		05/31/16 11:15		N2
rans-1,2-Dichloroethene	ND ND	ug/L	1.0	1		05/31/16 11:15		INZ
Dichlorofluoromethane	ND ND	-	1.0	1		05/31/16 11:15		N2
1,2-Dichloropropane	ND ND	ug/L	4.0	1		05/31/16 11:15		IN∠
• •		ug/L						
1,3-Dichloropropane	ND	ug/L	1.0	1		05/31/16 11:15 05/31/16 11:15		NO
2,2-Dichloropropane	ND	ug/L	4.0	1				N2
I,1-Dichloropropene	ND	ug/L	1.0	1		05/31/16 11:15		N2
cis-1,3-Dichloropropene	ND	ug/L	4.0	1		05/31/16 11:15		NO
rans-1,3-Dichloropropene	ND	ug/L	4.0	1		05/31/16 11:15		N2
Diethyl ether (Ethyl ether)	ND	ug/L	4.0	1		05/31/16 11:15		N2
Ethylbenzene	ND	ug/L	1.0	1		05/31/16 11:15		
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		05/31/16 11:15		N2
sopropylbenzene (Cumene)	ND	ug/L	1.0	1		05/31/16 11:15		
o-Isopropyltoluene	ND	ug/L	1.0	1		05/31/16 11:15		N2
Methylene Chloride	ND	ug/L	4.0	1		05/31/16 11:15		
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		05/31/16 11:15	108-10-1	N2





Project: CrC
Pace Project No.: 10348956

Date: 06/02/2016 07:27 AM

Sample: Effluent	Lab ID: 103	48956017	Collected: 05/18/1	6 11:15	Received: 05/18/16 16:	43 Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared Analy	zed CAS No.	Qua
624 MSV	Analytical Meth	nod: EPA 62	24				
Methyl-tert-butyl ether	ND	ug/L	1.0	1	05/31/16	11:15 1634-04-4	N2
Naphthalene	ND	ug/L	4.0	1	05/31/16	11:15 91-20-3	N2
n-Propylbenzene	ND	ug/L	1.0	1	05/31/16	11:15 103-65-1	N2
Styrene	ND	ug/L	1.0	1	05/31/16	11:15 100-42-5	N2
1,1,1,2-Tetrachloroethane	ND	ug/L	4.0	1	05/31/16	11:15 630-20-6	N2
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1	05/31/16	11:15 79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1	05/31/16	11:15 127-18-4	
Tetrahydrofuran	ND	ug/L	10.0	1	05/31/16	11:15 109-99-9	N2
Toluene	ND	ug/L	1.0	1	05/31/16	11:15 108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1	05/31/16	11:15 87-61-6	N2
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1	05/31/16	11:15 120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1	05/31/16	11:15 71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1	05/31/16	11:15 79-00-5	
Trichloroethene	ND	ug/L	0.40	1	05/31/16	11:15 79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1	05/31/16	11:15 75-69-4	
1,2,3-Trichloropropane	ND	ug/L	4.0	1	05/31/16	11:15 96-18-4	N2
1,1,2-Trichlorotrifluoroethane	ND	ug/L	1.0	1	05/31/16	11:15 76-13-1	N2
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1	05/31/16	11:15 95-63-6	N2
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1	05/31/16	11:15 108-67-8	N2
Vinyl chloride	ND	ug/L	1.0	1	05/31/16	11:15 75-01-4	
Xylene (Total)	ND	ug/L	3.0	1	05/31/16	11:15 1330-20-7	N2
m&p-Xylene	ND	ug/L	2.0	1	05/31/16	11:15 179601-23	-1 N2
o-Xylene	ND	ug/L	1.0	1	05/31/16	11:15 95-47-6	N2
Surrogates		Ü					
1,2-Dichloroethane-d4 (S)	103	%.	75-125	1	05/31/16	11:15 17060-07-0	)
Toluene-d8 (S)	97	%.	75-125	1	05/31/16	11:15 2037-26-5	
4-Bromofluorobenzene (S)	99	%.	75-125	1	05/31/16	11:15 460-00-4	



#### **QUALITY CONTROL DATA**

Project: CrC

Date: 06/02/2016 07:27 AM

Pace Project No.: 10348956

QC Batch: MSV/35762 Analysis Method: EPA 624
QC Batch Method: EPA 624 Analysis Description: 624 MSV

Associated Lab Samples: 10348956016, 10348956017

METHOD BLANK: 2272549 Matrix: Water

Associated Lab Samples: 10348956016, 10348956017

1,1,1,2-Tetrachloroethane	Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane         ug/L         ND         1.0         05/31/16 10:29           1,1,2-Trichloroethane         ug/L         ND         1.0         05/31/16 10:29           1,1,2-Trichloroethane         ug/L         ND         1.0         05/31/16 10:29           1,1-Dichloroethane         ug/L         ND         1.0         05/31/16 10:29         NZ           1,2,3-Trichlorobenzene         ug/L         ND         1.0         05/31/16 10:29         NZ           1,2,4-Trimethylbenzene         ug/L         ND         1.0         05/31/16 10:29         NZ           1,2-Dichorobenzene         ug/L         ND         1.0         05/31/16 10:29         NZ           1,2-Dichlorobenzene         ug/L         ND         1.0         05/31/16 10:29         NZ           1,2-Dichlorobenzene	1,1,1,2-Tetrachloroethane		ND	4.0	05/31/16 10:29	N2
1,1,2-Trichloroethane	1,1,1-Trichloroethane		ND	1.0	05/31/16 10:29	
1,1,2-Trichlorotrifluoroethane	1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	05/31/16 10:29	
1,1-Dichloroethane         ug/L         ND         1.0         05/31/16 10:29         NZ         ND         1.0         05/31/16 10:29         NZ <td< td=""><td>1,1,2-Trichloroethane</td><td>ug/L</td><td>ND</td><td>1.0</td><td>05/31/16 10:29</td><td></td></td<>	1,1,2-Trichloroethane	ug/L	ND	1.0	05/31/16 10:29	
1,1-Dichloroethane         ug/L         ND         1.0         05/31/16 10:29         NZ         ND         1.0         05/31/16 10:29         NZ <td< td=""><td>1,1,2-Trichlorotrifluoroethane</td><td>ug/L</td><td>ND</td><td>1.0</td><td>05/31/16 10:29</td><td>N2</td></td<>	1,1,2-Trichlorotrifluoroethane	ug/L	ND	1.0	05/31/16 10:29	N2
1,1-Dichloropropene         ug/L         ND         1.0         05/31/16 10:29         N2           1,2,3-Trichlorobenzene         ug/L         ND         4.0         05/31/16 10:29         N2           1,2,3-Trichloropropane         ug/L         ND         4.0         05/31/16 10:29         N2           1,2,4-Trichlorobenzene         ug/L         ND         1.0         05/31/16 10:29         N2           1,2,4-Trichlorobenzene         ug/L         ND         1.0         05/31/16 10:29         N2           1,2-Dibromo-3-chloropropane         ug/L         ND         1.0         05/31/16 10:29         N2           1,2-Dibromo-dthane (EDB)         ug/L         ND         1.0         05/31/16 10:29         N2           1,2-Dichlorobenzene         ug/L         ND         1.0         05/31/16 10:29         N2           1,2-Dichloroptropane         ug/L         ND         1.0         05/31/16 10:29         N2           1,2-Dichloroptopane         ug/L         ND         1.0         05/31/16 10:29         N2           1,3-Dichloroptopane         ug/L         ND         1.0         05/31/16 10:29         N2           1,3-Dichloroptopane         ug/L         ND         1.0         05/31/16 10:29 </td <td>1,1-Dichloroethane</td> <td>-</td> <td>ND</td> <td>1.0</td> <td>05/31/16 10:29</td> <td></td>	1,1-Dichloroethane	-	ND	1.0	05/31/16 10:29	
1,2,3-Trichlorobenzene         ug/L         ND         1.0         05/31/16 10:29         N2           1,2,3-Trichloropropane         ug/L         ND         4.0         05/31/16 10:29         N2           1,2,4-Trichlorobenzene         ug/L         ND         1.0         05/31/16 10:29         N2           1,2,4-Trimethylbenzene         ug/L         ND         1.0         05/31/16 10:29         N2           1,2-Dibloromo-3-chloropropane         ug/L         ND         1.0         05/31/16 10:29         N2           1,2-Dibloromethane (EDB)         ug/L         ND         1.0         05/31/16 10:29         N2           1,2-Dichlorobenzene         ug/L         ND         1.0         05/31/16 10:29         N2           1,2-Dichloroptopane         ug/L         ND         1.0         05/31/16 10:29         N2           1,2-Dichloroptopane         ug/L         ND         1.0         05/31/16 10:29         N2           1,3-Dichloroptopane         ug/L         ND         1.0         05/31/16 10:29         N2           1,3-Dichloroptopane         ug/L         ND         1.0         05/31/16 10:29         N2           2,2-Dichloroptopane         ug/L         ND         4.0         05/31/16 10:29<	1,1-Dichloroethene	ug/L	ND	1.0	05/31/16 10:29	
1,2,3-Trichlorobenzene         ug/L         ND         1.0         05/31/16 10:29         N2           1,2,3-Trichloropropane         ug/L         ND         4.0         05/31/16 10:29         N2           1,2,4-Trichlorobenzene         ug/L         ND         1.0         05/31/16 10:29         N2           1,2,4-Trimethylbenzene         ug/L         ND         1.0         05/31/16 10:29         N2           1,2-Dibloromo-3-chloropropane         ug/L         ND         1.0         05/31/16 10:29         N2           1,2-Dibloromethane (EDB)         ug/L         ND         1.0         05/31/16 10:29         N2           1,2-Dichlorobenzene         ug/L         ND         1.0         05/31/16 10:29         N2           1,2-Dichloroptopane         ug/L         ND         1.0         05/31/16 10:29         N2           1,2-Dichloroptopane         ug/L         ND         1.0         05/31/16 10:29         N2           1,3-Dichloroptopane         ug/L         ND         1.0         05/31/16 10:29         N2           1,3-Dichloroptopane         ug/L         ND         1.0         05/31/16 10:29         N2           2,2-Dichloroptopane         ug/L         ND         4.0         05/31/16 10:29<	1,1-Dichloropropene	ug/L	ND	1.0	05/31/16 10:29	N2
1,2,4-Trichlorobenzene         ug/L         ND         1.0         05/31/16 10:29         N2           1,2,4-Trimethylbenzene         ug/L         ND         1.0         05/31/16 10:29         N2           1,2-Dibromo-3-chloropropane         ug/L         ND         4.0         05/31/16 10:29         N2           1,2-Dichlorobenzene         ug/L         ND         1.0         05/31/16 10:29         N2           1,2-Dichlorobenzene         ug/L         ND         1.0         05/31/16 10:29         N2           1,2-Dichloropropane         ug/L         ND         1.0         05/31/16 10:29         N2           1,3-5-Trimethylbenzene         ug/L         ND         1.0         05/31/16 10:29         N2           1,3-Dichloropropane         ug/L         ND         1.0         05/31/16 10:29         N2           1,3-Dichloroppropane         ug/L         ND         1.0         05/31/16 10:29         N2           1,3-Dichloroppropane         ug/L         ND         1.0         05/31/16 10:29         N2           2,2-Dichloropropane         ug/L         ND         4.0         05/31/16 10:29         N2           2,-Dichloropropane         ug/L         ND         4.0         05/31/16 10:29	1,2,3-Trichlorobenzene	-	ND	1.0	05/31/16 10:29	N2
1,2,4-Trimethylbenzene         ug/L         ND         1.0         05/31/16 10:29         N2           1,2-Dibromo-3-chloropropane         ug/L         ND         4.0         05/31/16 10:29         N2           1,2-Dibromoethane (EDB)         ug/L         ND         1.0         05/31/16 10:29         N2           1,2-Dichlorobenzene         ug/L         ND         1.0         05/31/16 10:29         N2           1,2-Dichloropropane         ug/L         ND         1.0         05/31/16 10:29         N2           1,3-5-Trimethylbenzene         ug/L         ND         1.0         05/31/16 10:29         N2           1,3-Dichloropenzene         ug/L         ND         1.0         05/31/16 10:29         N2           2,2-Dichloropropane         ug/L         ND         4.0         05/31/16 10:29         N2           2,2-Dichloropropane         ug/L         ND         4.0         05/31/16 10:29	1,2,3-Trichloropropane	ug/L	ND	4.0	05/31/16 10:29	N2
1,2,4-Trimethylbenzene         ug/L         ND         1.0         05/31/16 10:29         N2           1,2-Dibromo-3-chloropropane         ug/L         ND         4.0         05/31/16 10:29         N2           1,2-Dibromoethane (EDB)         ug/L         ND         1.0         05/31/16 10:29         N2           1,2-Dichlorobenzene         ug/L         ND         1.0         05/31/16 10:29         N2           1,2-Dichloropropane         ug/L         ND         1.0         05/31/16 10:29         N2           1,3-5-Trimethylbenzene         ug/L         ND         1.0         05/31/16 10:29         N2           1,3-Dichloropenzene         ug/L         ND         1.0         05/31/16 10:29         N2           2,2-Dichloropropane         ug/L         ND         4.0         05/31/16 10:29         N2           2,2-Dichloropropane         ug/L         ND         4.0         05/31/16 10:29	1,2,4-Trichlorobenzene	ug/L	ND	1.0	05/31/16 10:29	
1,2-Dibromoethane (EDB)         ug/L         ND         1.0         05/31/16 10:29         N2           1,2-Dichlorobenzene         ug/L         ND         1.0         05/31/16 10:29         N2           1,2-Dichloroethane         ug/L         ND         1.0         05/31/16 10:29         N2           1,2-Dichloropropane         ug/L         ND         1.0         05/31/16 10:29         N2           1,3-Dichlorobenzene         ug/L         ND         1.0         05/31/16 10:29         N2           1,3-Dichloropropane         ug/L         ND         1.0         05/31/16 10:29         N2           1,3-Dichloropropane         ug/L         ND         1.0         05/31/16 10:29         N2           1,3-Dichloropropane         ug/L         ND         1.0         05/31/16 10:29         N2           2,2-Dichloropropane         ug/L         ND         1.0         05/31/16 10:29         N2           2,-Butanone (MEK)         ug/L         ND         1.0         05/31/16 10:29         N2           2-Chlorotoluene         ug/L         ND         1.0         05/31/16 10:29         N2           4-Chlorotoluene         ug/L         ND         1.0         05/31/16 10:29         N2	1,2,4-Trimethylbenzene			1.0	05/31/16 10:29	N2
1,2-Dichlorobenzene       ug/L       ND       1.0       05/31/16 10:29         1,2-Dichloroethane       ug/L       ND       1.0       05/31/16 10:29         1,2-Dichloropropane       ug/L       ND       4.0       05/31/16 10:29         1,3,5-Trimethylbenzene       ug/L       ND       1.0       05/31/16 10:29         1,3-Dichlorobenzene       ug/L       ND       1.0       05/31/16 10:29         1,3-Dichloropropane       ug/L       ND       1.0       05/31/16 10:29         1,4-Dichlorobenzene       ug/L       ND       1.0       05/31/16 10:29         1,4-Dichloropropane       ug/L       ND       4.0       05/31/16 10:29       N2         2,2-Dichloropropane       ug/L       ND       4.0       05/31/16 10:29       N2         2,-Chlorotoluene       ug/L       ND       1.	1,2-Dibromo-3-chloropropane	ug/L	ND	4.0	05/31/16 10:29	N2
1,2-Dichlorobenzene       ug/L       ND       1.0       05/31/16 10:29         1,2-Dichloroptopane       ug/L       ND       1.0       05/31/16 10:29         1,2-Dichloropropane       ug/L       ND       4.0       05/31/16 10:29         1,3-5-Trimethylbenzene       ug/L       ND       1.0       05/31/16 10:29         1,3-Dichlorobenzene       ug/L       ND       1.0       05/31/16 10:29         1,3-Dichloropropane       ug/L       ND       1.0       05/31/16 10:29         1,4-Dichlorobenzene       ug/L       ND       1.0       05/31/16 10:29         2,2-Dichloropopane       ug/L       ND       4.0       05/31/16 10:29       N2         2,2-Dichloropopane       ug/L       ND       1.0 </td <td>1,2-Dibromoethane (EDB)</td> <td>ug/L</td> <td>ND</td> <td>1.0</td> <td>05/31/16 10:29</td> <td>N2</td>	1,2-Dibromoethane (EDB)	ug/L	ND	1.0	05/31/16 10:29	N2
1,2-Dichloroethane       ug/L       ND       1.0       05/31/16 10:29         1,2-Dichloropropane       ug/L       ND       4.0       05/31/16 10:29         1,3-5-Trimethylbenzene       ug/L       ND       1.0       05/31/16 10:29         1,3-Dichlorobenzene       ug/L       ND       1.0       05/31/16 10:29         1,3-Dichloropropane       ug/L       ND       1.0       05/31/16 10:29         1,4-Dichlorobenzene       ug/L       ND       1.0       05/31/16 10:29         2,2-Dichloropropane       ug/L       ND       4.0       05/31/16 10:29         2,2-Dichloropropane       ug/L       ND       4.0       05/31/16 10:29       N2         2-Butanone (MEK)       ug/L       ND       5.0       05/31/16 10:29       N2         2-Chlorothylvinyl ether       ug/L       ND       10.0       05/31/16 10:29       N2         2-Chlorotoluene       ug/L       ND       1.0       05/31/16 10:29       N2         4-Chlorotoluene       ug/L       ND       1.0       05/31/16 10:29       N2         4-Chlorotoluene       ug/L       ND       5.0       05/31/16 10:29       N2         Acetone       ug/L       ND       5.0       05	1,2-Dichlorobenzene		ND	1.0	05/31/16 10:29	
1,2-Dichloropropane       ug/L       ND       4.0       05/31/16 10:29       N2         1,3,5-Trimethylbenzene       ug/L       ND       1.0       05/31/16 10:29       N2         1,3-Dichlorobenzene       ug/L       ND       1.0       05/31/16 10:29       ND         1,3-Dichloropropane       ug/L       ND       1.0       05/31/16 10:29       ND         1,4-Dichlorobenzene       ug/L       ND       1.0       05/31/16 10:29       N2         2,2-Dichloropropane       ug/L       ND       4.0       05/31/16 10:29       N2         2,-Butanone (MEK)       ug/L       ND       5.0       05/31/16 10:29       N2         2-Chloroteluene (MEK)       ug/L       ND       1.0       05/31/16 10:29       N2         2-Chlorotoluene       ug/L       ND       1.0       05/31/16 10:29       N2         4-Chlorotoluene       ug/L       ND       1.0       05/31/16 10:29       N2         4-Chlorotoluene       ug/L       ND       1.0       05/31/16 10:29       N2         4-Chlorotoluene       ug/L       ND       5.0       05/31/16 10:29       N2         Acetone       ug/L       ND       5.0       05/31/16 10:29       N2	1,2-Dichloroethane		ND	1.0	05/31/16 10:29	
1,3-Dichlorobenzene         ug/L         ND         1.0         05/31/16 10:29           1,3-Dichloropropane         ug/L         ND         1.0         05/31/16 10:29           1,4-Dichlorobenzene         ug/L         ND         1.0         05/31/16 10:29           2,2-Dichloropropane         ug/L         ND         4.0         05/31/16 10:29         N2           2-Butanone (MEK)         ug/L         ND         5.0         05/31/16 10:29         N2           2-Chlorothylvinyl ether         ug/L         ND         10.0         05/31/16 10:29         N2           2-Chlorotoluene         ug/L         ND         1.0         05/31/16 10:29         N2           4-Chlorotoluene         ug/L <t< td=""><td>1,2-Dichloropropane</td><td></td><td>ND</td><td>4.0</td><td>05/31/16 10:29</td><td></td></t<>	1,2-Dichloropropane		ND	4.0	05/31/16 10:29	
1,3-Dichlorobenzene         ug/L         ND         1.0         05/31/16 10:29           1,3-Dichloropropane         ug/L         ND         1.0         05/31/16 10:29           1,4-Dichlorobenzene         ug/L         ND         1.0         05/31/16 10:29           2,2-Dichloropropane         ug/L         ND         4.0         05/31/16 10:29         N2           2-Butanone (MEK)         ug/L         ND         5.0         05/31/16 10:29         N2           2-Chlorothylvinyl ether         ug/L         ND         10.0         05/31/16 10:29         N2           2-Chlorotoluene         ug/L         ND         1.0         05/31/16 10:29         N2           4-Chlorotoluene         ug/L <t< td=""><td>1,3,5-Trimethylbenzene</td><td>_</td><td>ND</td><td>1.0</td><td>05/31/16 10:29</td><td>N2</td></t<>	1,3,5-Trimethylbenzene	_	ND	1.0	05/31/16 10:29	N2
1,4-Dichlorobenzene       ug/L       ND       1.0       05/31/16 10:29       N2         2,2-Dichloropropane       ug/L       ND       4.0       05/31/16 10:29       N2         2-Butanone (MEK)       ug/L       ND       5.0       05/31/16 10:29       N2         2-Chlorototlyvinyl ether       ug/L       ND       10.0       05/31/16 10:29       N2         2-Chlorototluene       ug/L       ND       1.0       05/31/16 10:29       N2         4-Chlorotoluene       ug/L       ND       1.0       05/31/16 10:29       N2         4-Methyl-2-pentanone (MIBK)       ug/L       ND       5.0       05/31/16 10:29       N2         4-Methyl-2-pentanone (MIBK)       ug/L       ND       5.0       05/31/16 10:29       N2         4-Methyl-2-pentanone (MIBK)       ug/L       ND       5.0       05/31/16 10:29       N2         4-Methyl-2-pentanone (MIBK)       ug/L       ND       4.0       05/31/16 10:29       N2         Allyl chloride       ug/L       ND       4.0       05/31/16 10:29       N2         Allyl chloride       ug/L       ND       4.0       05/31/16 10:29       N2         Bromobenzene       ug/L       ND       1.0       05/3	1,3-Dichlorobenzene	-	ND	1.0	05/31/16 10:29	
1,4-Dichlorobenzene       ug/L       ND       1.0       05/31/16 10:29       N2         2,2-Dichloropropane       ug/L       ND       4.0       05/31/16 10:29       N2         2-Butanone (MEK)       ug/L       ND       5.0       05/31/16 10:29       N2         2-Chlorotethylvinyl ether       ug/L       ND       10.0       05/31/16 10:29       N2         2-Chlorotoluene       ug/L       ND       1.0       05/31/16 10:29       N2         4-Chlorotoluene       ug/L       ND       1.0       05/31/16 10:29       N2         4-Methyl-2-pentanone (MIBK)       ug/L       ND       5.0       05/31/16 10:29       N2         4-Methyl-2-pentanone (MIBK)       ug/L       ND       5.0       05/31/16 10:29       N2         4-Methyl-2-pentanone (MIBK)       ug/L       ND       20.0       05/31/16 10:29       N2         Acetone       ug/L       ND       20.0       05/31/16 10:29       N2         Allyl chloride       ug/L       ND       4.0       05/31/16 10:29       N2         Benzene       ug/L       ND       1.0       05/31/16 10:29       N2         Bromochloromethane       ug/L       ND       4.0       05/31/16 10:29	1,3-Dichloropropane	ug/L	ND	1.0	05/31/16 10:29	
2,2-Dichloropropane       ug/L       ND       4.0       05/31/16 10:29       N2         2-Butanone (MEK)       ug/L       ND       5.0       05/31/16 10:29       N2         2-Chloroethylvinyl ether       ug/L       ND       10.0       05/31/16 10:29       N2         2-Chlorotoluene       ug/L       ND       1.0       05/31/16 10:29       N2         4-Chlorotoluene       ug/L       ND       1.0       05/31/16 10:29       N2         4-Methyl-2-pentanone (MIBK)       ug/L       ND       5.0       05/31/16 10:29       N2         Acetone       ug/L       ND       20.0       05/31/16 10:29       N2         Ally chloride       ug/L       ND       4.0       05/31/16 10:29       N2         Benzene       ug/L       ND       1.0       05/31/16 10:29       N2         Bromobenzene       ug/L       ND       1.0       05/31/16 10:29       N2         Bromochloromethane       ug/L       ND       1.0       05/31/16 10:29       N2         Bromoform       ug/L       ND       4.0       05/31/16 10:29       N2         Bromoform       ug/L       ND       4.0       05/31/16 10:29       N2         Br	1,4-Dichlorobenzene		ND	1.0	05/31/16 10:29	
2-Butanone (MEK)       ug/L       ND       5.0       05/31/16 10:29       N2         2-Chloroethylvinyl ether       ug/L       ND       10.0       05/31/16 10:29       N2         2-Chlorotoluene       ug/L       ND       1.0       05/31/16 10:29       N2         4-Chlorotoluene       ug/L       ND       1.0       05/31/16 10:29       N2         4-Methyl-2-pentanone (MIBK)       ug/L       ND       5.0       05/31/16 10:29       N2         Acetone       ug/L       ND       20.0       05/31/16 10:29       N2         Allyl chloride       ug/L       ND       4.0       05/31/16 10:29       N2         Benzene       ug/L       ND       1.0       05/31/16 10:29       N2         Bromobenzene       ug/L       ND       1.0       05/31/16 10:29       N2         Bromochloromethane       ug/L       ND       1.0       05/31/16 10:29       N2         Bromoform       ug/L       ND       4.0       05/31/16 10:29       N2         Bromomethane       ug/L       ND       4.0       05/31/16 10:29       N2         Carbon tetrachloride       ug/L       ND       4.0       05/31/16 10:29       ND         <	2,2-Dichloropropane		ND	4.0	05/31/16 10:29	N2
2-Chloroethylvinyl ether       ug/L       ND       10.0       05/31/16 10:29       N2         2-Chlorotoluene       ug/L       ND       1.0       05/31/16 10:29       N2         4-Chlorotoluene       ug/L       ND       1.0       05/31/16 10:29       N2         4-Methyl-2-pentanone (MIBK)       ug/L       ND       5.0       05/31/16 10:29       N2         Acetone       ug/L       ND       20.0       05/31/16 10:29       N2         Allyl chloride       ug/L       ND       4.0       05/31/16 10:29       N2         Benzene       ug/L       ND       1.0       05/31/16 10:29       N2         Bromobenzene       ug/L       ND       1.0       05/31/16 10:29       N2         Bromochloromethane       ug/L       ND       1.0       05/31/16 10:29       N2         Bromoform       ug/L       ND       1.0       05/31/16 10:29       N2         Bromomethane       ug/L       ND       4.0       05/31/16 10:29       N2         Carbon tetrachloride       ug/L       ND       4.0       05/31/16 10:29       N2         Chlorobenzene       ug/L       ND       1.0       05/31/16 10:29       N2	2-Butanone (MEK)	-	ND	5.0	05/31/16 10:29	N2
2-Chlorotoluene       ug/L       ND       1.0       05/31/16 10:29       N2         4-Chlorotoluene       ug/L       ND       1.0       05/31/16 10:29       N2         4-Methyl-2-pentanone (MIBK)       ug/L       ND       5.0       05/31/16 10:29       N2         Acetone       ug/L       ND       20.0       05/31/16 10:29       N2         Allyl chloride       ug/L       ND       4.0       05/31/16 10:29       N2         Benzene       ug/L       ND       1.0       05/31/16 10:29       N2         Bromobenzene       ug/L       ND       1.0       05/31/16 10:29       N2         Bromochloromethane       ug/L       ND       1.0       05/31/16 10:29       N2         Bromoform       ug/L       ND       1.0       05/31/16 10:29       N2         Bromomethane       ug/L       ND       4.0       05/31/16 10:29       N2         Bromomethane       ug/L       ND       4.0       05/31/16 10:29       N2         Chlorobenzene       ug/L       ND       1.0       05/31/16 10:29       N2         Chloroform       ug/L       ND       1.0       05/31/16 10:29       N2         Chloromethane	2-Chloroethylvinyl ether	_	ND	10.0	05/31/16 10:29	
4-Methyl-2-pentanone (MIBK)       ug/L       ND       5.0       05/31/16 10:29       N2         Acetone       ug/L       ND       20.0       05/31/16 10:29       N2         Allyl chloride       ug/L       ND       4.0       05/31/16 10:29       N2         Benzene       ug/L       ND       1.0       05/31/16 10:29       N2         Bromobenzene       ug/L       ND       1.0       05/31/16 10:29       N2         Bromochloromethane       ug/L       ND       1.0       05/31/16 10:29       N2         Bromoform       ug/L       ND       1.0       05/31/16 10:29       N2         Bromomethane       ug/L       ND       4.0       05/31/16 10:29       N2         Carbon tetrachloride       ug/L       ND       4.0       05/31/16 10:29       N2         Chlorobenzene       ug/L       ND       1.0       05/31/16 10:29       N2         Chloroform       ug/L       ND       1.0       05/31/16 10:29       N2         Chloromethane       ug/L       ND       1.0       05/31/16 10:29       N2         Chloromethane       ug/L       ND       1.0       05/31/16 10:29       N2	2-Chlorotoluene	-	ND	1.0	05/31/16 10:29	N2
4-Methyl-2-pentanone (MIBK)       ug/L       ND       5.0       05/31/16 10:29       N2         Acetone       ug/L       ND       20.0       05/31/16 10:29       N2         Allyl chloride       ug/L       ND       4.0       05/31/16 10:29       N2         Benzene       ug/L       ND       1.0       05/31/16 10:29       N2         Bromobenzene       ug/L       ND       1.0       05/31/16 10:29       N2         Bromochloromethane       ug/L       ND       1.0       05/31/16 10:29       N2         Bromoform       ug/L       ND       1.0       05/31/16 10:29       N2         Bromomethane       ug/L       ND       4.0       05/31/16 10:29       N2         Carbon tetrachloride       ug/L       ND       4.0       05/31/16 10:29       N2         Chlorobenzene       ug/L       ND       1.0       05/31/16 10:29       N2         Chloroform       ug/L       ND       1.0       05/31/16 10:29       N2         Chloromethane       ug/L       ND       1.0       05/31/16 10:29       N2         Chloromethane       ug/L       ND       1.0       05/31/16 10:29       N2	4-Chlorotoluene	ug/L	ND	1.0	05/31/16 10:29	N2
Acetone       ug/L       ND       20.0       05/31/16 10:29       N2         Allyl chloride       ug/L       ND       4.0       05/31/16 10:29       N2         Benzene       ug/L       ND       1.0       05/31/16 10:29       N2         Bromobenzene       ug/L       ND       1.0       05/31/16 10:29       N2         Bromochloromethane       ug/L       ND       1.0       05/31/16 10:29       N2         Bromoform       ug/L       ND       4.0       05/31/16 10:29       N2         Bromomethane       ug/L       ND       4.0       05/31/16 10:29       N2         Carbon tetrachloride       ug/L       ND       4.0       05/31/16 10:29       N2         Chlorobenzene       ug/L       ND       1.0       05/31/16 10:29       N2         Chloroform       ug/L       ND       1.0       05/31/16 10:29       N2         Chloromethane       ug/L       ND       1.0       05/31/16 10:29       N2         Chloromethane       ug/L       ND       1.0       05/31/16 10:29       N2         Chloromethane       ug/L       ND       1.0       05/31/16 10:29       N2	4-Methyl-2-pentanone (MIBK)		ND	5.0		N2
Benzene         ug/L         ND         1.0         05/31/16 10:29         N2           Bromobenzene         ug/L         ND         1.0         05/31/16 10:29         N2           Bromochloromethane         ug/L         ND         4.0         05/31/16 10:29         N2           Bromodichloromethane         ug/L         ND         1.0         05/31/16 10:29         N2           Bromoform         ug/L         ND         4.0         05/31/16 10:29         N2           Bromomethane         ug/L         ND         4.0         05/31/16 10:29         N2           Carbon tetrachloride         ug/L         ND         4.0         05/31/16 10:29         N2           Chlorobenzene         ug/L         ND         1.0         05/31/16 10:29         N2           Chloroform         ug/L         ND         1.0         05/31/16 10:29         N2           Chloromethane         ug/L         ND         1.0         05/31/16 10:29         N2           Chloromethane         ug/L         ND         1.0         05/31/16 10:29         N2	Acetone		ND		05/31/16 10:29	N2
Bromobenzene         ug/L         ND         1.0         05/31/16 10:29         N2           Bromochloromethane         ug/L         ND         4.0         05/31/16 10:29         N2           Bromodichloromethane         ug/L         ND         1.0         05/31/16 10:29         V2           Bromoform         ug/L         ND         4.0         05/31/16 10:29         V2           Bromomethane         ug/L         ND         4.0         05/31/16 10:29         V2           Carbon tetrachloride         ug/L         ND         1.0         05/31/16 10:29         V2           Chlorobenzene         ug/L         ND         1.0         05/31/16 10:29         V3           Chloroform         ug/L         ND         1.0         05/31/16 10:29         V3           Chloromethane         ug/L         ND         1.0         05/31/16 10:29         V3	Allyl chloride	ug/L	ND	4.0	05/31/16 10:29	N2
Bromobenzene         ug/L         ND         1.0         05/31/16 10:29         N2           Bromochloromethane         ug/L         ND         4.0         05/31/16 10:29         N2           Bromodichloromethane         ug/L         ND         1.0         05/31/16 10:29         V2           Bromoform         ug/L         ND         4.0         05/31/16 10:29         V2           Bromomethane         ug/L         ND         4.0         05/31/16 10:29         V2           Carbon tetrachloride         ug/L         ND         1.0         05/31/16 10:29         V2           Chlorobenzene         ug/L         ND         1.0         05/31/16 10:29         V3           Chloroform         ug/L         ND         1.0         05/31/16 10:29         V3           Chloromethane         ug/L         ND         1.0         05/31/16 10:29         V3	•	<u> </u>	ND	1.0	05/31/16 10:29	
Bromochloromethane         ug/L         ND         4.0         05/31/16 10:29         N2           Bromodichloromethane         ug/L         ND         1.0         05/31/16 10:29         1.0         05/31/16 10:29         1.0         05/31/16 10:29         1.0         05/31/16 10:29         1.0         05/31/16 10:29         1.0         05/31/16 10:29         1.0         05/31/16 10:29         1.0         05/31/16 10:29         1.0         05/31/16 10:29         1.0         05/31/16 10:29         1.0         05/31/16 10:29         1.0         05/31/16 10:29         1.0         05/31/16 10:29         1.0         05/31/16 10:29         1.0         05/31/16 10:29         1.0         05/31/16 10:29         1.0         05/31/16 10:29         1.0         05/31/16 10:29         1.0         05/31/16 10:29         1.0         05/31/16 10:29         1.0         05/31/16 10:29         1.0         05/31/16 10:29         1.0         05/31/16 10:29         1.0         05/31/16 10:29         1.0         05/31/16 10:29         1.0         05/31/16 10:29         1.0         05/31/16 10:29         1.0         05/31/16 10:29         1.0         05/31/16 10:29         1.0         05/31/16 10:29         1.0         05/31/16 10:29         1.0         05/31/16 10:29         1.0         05/31/16 10:29         1.0         05/	Bromobenzene		ND	1.0	05/31/16 10:29	N2
Bromodichloromethane         ug/L         ND         1.0         05/31/16 10:29           Bromoform         ug/L         ND         4.0         05/31/16 10:29           Bromomethane         ug/L         ND         4.0         05/31/16 10:29           Carbon tetrachloride         ug/L         ND         4.0         05/31/16 10:29           Chlorobenzene         ug/L         ND         1.0         05/31/16 10:29           Chloroethane         ug/L         ND         1.0         05/31/16 10:29           Chloromethane         ug/L         ND         1.0         05/31/16 10:29           Chloromethane         ug/L         ND         4.0         05/31/16 10:29	Bromochloromethane		ND	4.0		N2
Bromomethane         ug/L         ND         4.0         05/31/16 10:29           Carbon tetrachloride         ug/L         ND         4.0         05/31/16 10:29           Chlorobenzene         ug/L         ND         1.0         05/31/16 10:29           Chloroethane         ug/L         ND         1.0         05/31/16 10:29           Chloroform         ug/L         ND         1.0         05/31/16 10:29           Chloromethane         ug/L         ND         4.0         05/31/16 10:29	Bromodichloromethane	~	ND	1.0	05/31/16 10:29	
Bromomethane         ug/L         ND         4.0         05/31/16 10:29           Carbon tetrachloride         ug/L         ND         4.0         05/31/16 10:29           Chlorobenzene         ug/L         ND         1.0         05/31/16 10:29           Chloroethane         ug/L         ND         1.0         05/31/16 10:29           Chloroform         ug/L         ND         1.0         05/31/16 10:29           Chloromethane         ug/L         ND         4.0         05/31/16 10:29	Bromoform	<u> </u>	ND	4.0	05/31/16 10:29	
Carbon tetrachloride         ug/L         ND         4.0         05/31/16 10:29           Chlorobenzene         ug/L         ND         1.0         05/31/16 10:29           Chloroethane         ug/L         ND         1.0         05/31/16 10:29           Chloroform         ug/L         ND         1.0         05/31/16 10:29           Chloromethane         ug/L         ND         4.0         05/31/16 10:29	Bromomethane		ND	4.0	05/31/16 10:29	
Chlorobenzene         ug/L         ND         1.0         05/31/16 10:29           Chloroethane         ug/L         ND         1.0         05/31/16 10:29           Chloroform         ug/L         ND         1.0         05/31/16 10:29           Chloromethane         ug/L         ND         4.0         05/31/16 10:29		•				
Chloroethane         ug/L         ND         1.0         05/31/16 10:29           Chloroform         ug/L         ND         1.0         05/31/16 10:29           Chloromethane         ug/L         ND         4.0         05/31/16 10:29						
Chloroform         ug/L         ND         1.0         05/31/16 10:29           Chloromethane         ug/L         ND         4.0         05/31/16 10:29	Chloroethane					
Chloromethane ug/L ND 4.0 05/31/16 10:29		· ·				
· · · · · · · · · · · · · · · · · · ·		ū				
	cis-1,2-Dichloroethene	ug/L				N2

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.



## **QUALITY CONTROL DATA**

Project: CrC
Pace Project No.: 10348956

Date: 06/02/2016 07:27 AM

METHOD BLANK: 2272549 Matrix: Water

Associated Lab Samples: 10348956016, 10348956017

		Blank	Reporting		
Parameter	Units	Result	Limit	Analyzed	Qualifiers
cis-1,3-Dichloropropene	ug/L	ND	4.0	05/31/16 10:29	-
Dibromochloromethane	ug/L	ND	4.0	05/31/16 10:29	N2
Dibromomethane	ug/L	ND	4.0	05/31/16 10:29	
Dichlorodifluoromethane	ug/L	ND	1.0	05/31/16 10:29	N2
Dichlorofluoromethane	ug/L	ND	1.0	05/31/16 10:29	N2
Diethyl ether (Ethyl ether)	ug/L	ND	4.0	05/31/16 10:29	N2
Ethylbenzene	ug/L	ND	1.0	05/31/16 10:29	
Hexachloro-1,3-butadiene	ug/L	ND	1.0	05/31/16 10:29	N2
Isopropylbenzene (Cumene)	ug/L	ND	1.0	05/31/16 10:29	
m&p-Xylene	ug/L	ND	2.0	05/31/16 10:29	N2
Methyl-tert-butyl ether	ug/L	ND	1.0	05/31/16 10:29	N2
Methylene Chloride	ug/L	ND	4.0	05/31/16 10:29	
n-Butylbenzene	ug/L	ND	1.0	05/31/16 10:29	N2
n-Propylbenzene	ug/L	ND	1.0	05/31/16 10:29	N2
Naphthalene	ug/L	ND	4.0	05/31/16 10:29	N2
o-Xylene	ug/L	ND	1.0	05/31/16 10:29	N2
p-Isopropyltoluene	ug/L	ND	1.0	05/31/16 10:29	N2
sec-Butylbenzene	ug/L	ND	1.0	05/31/16 10:29	N2
Styrene	ug/L	ND	1.0	05/31/16 10:29	N2
tert-Butylbenzene	ug/L	ND	1.0	05/31/16 10:29	
Tetrachloroethene	ug/L	ND	1.0	05/31/16 10:29	
Tetrahydrofuran	ug/L	ND	10.0	05/31/16 10:29	N2
Toluene	ug/L	ND	1.0	05/31/16 10:29	
trans-1,2-Dichloroethene	ug/L	ND	1.0	05/31/16 10:29	
trans-1,3-Dichloropropene	ug/L	ND	4.0	05/31/16 10:29	N2
Trichloroethene	ug/L	ND	0.40	05/31/16 10:29	
Trichlorofluoromethane	ug/L	ND	1.0	05/31/16 10:29	
Vinyl chloride	ug/L	ND	1.0	05/31/16 10:29	
Xylene (Total)	ug/L	ND	3.0	05/31/16 10:29	N2
1,2-Dichloroethane-d4 (S)	%.	99	75-125	05/31/16 10:29	
4-Bromofluorobenzene (S)	%.	102	75-125	05/31/16 10:29	
Toluene-d8 (S)	%.	99	75-125	05/31/16 10:29	

LABORATORY CONTROL SAMPLE:	2272550					
		Spike	LCS	LCS	% Rec	
Parameter	Units	Conc.	Result	% Rec	Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L		21.0	105	75-126	N2
1,1,1-Trichloroethane	ug/L	20	22.2	111	72-125	
1,1,2,2-Tetrachloroethane	ug/L	20	21.1	105	68-125	
1,1,2-Trichloroethane	ug/L	20	21.4	107	75-125	
1,1,2-Trichlorotrifluoroethane	ug/L	20	19.4	97	66-132	N2
1,1-Dichloroethane	ug/L	20	20.1	101	68-126	
1,1-Dichloroethene	ug/L	20	20.1	101	67-127	
1,1-Dichloropropene	ug/L	20	21.2	106	71-126	N2

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

## **REPORT OF LABORATORY ANALYSIS**

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Project: CrC
Pace Project No.: 10348956

Date: 06/02/2016 07:27 AM

LABORATORY CONTROL SAMPLE:	2272550				
		Spike	LCS	LCS	% Rec
Parameter	Units	Conc.	Result	% Rec	Limits Qualifie
1,2,3-Trichlorobenzene	ug/L		19.9	99	63-132 N2
1,2,3-Trichloropropane	ug/L	20	20.0	100	72-125 N2
1,2,4-Trichlorobenzene	ug/L	20	21.0	105	59-135
1,2,4-Trimethylbenzene	ug/L	20	19.4	97	70-132 N2
1,2-Dibromo-3-chloropropane	ug/L	50	53.1	106	58-130 N2
1,2-Dibromoethane (EDB)	ug/L	20	20.4	102	75-125 N2
1,2-Dichlorobenzene	ug/L	20	21.1	106	74-125
1,2-Dichloroethane	ug/L	20	20.6	103	71-125
1,2-Dichloropropane	ug/L	20	19.6	98	72-125
1,3,5-Trimethylbenzene	ug/L	20	19.8	99	73-125 N2
1,3-Dichlorobenzene	ug/L	20	20.6	103	74-125
I,3-Dichloropropane	ug/L	20	22.1	111	75-125
1,4-Dichlorobenzene	ug/L	20	20.0	100	74-125
2,2-Dichloropropane	ug/L	20	23.8	119	64-138 N2
2-Butanone (MEK)	ug/L	100	99.7	100	61-129 N2
2-Chloroethylvinyl ether	ug/L	50	48.3	97	30-150
2-Chlorotoluene	ug/L	20	19.5	98	70-126 N2
1-Chlorotoluene	ug/L	20	19.9	100	73-125 N2
1-Methyl-2-pentanone (MIBK)	ug/L	100	104	104	63-135 N2
Acetone	ug/L	100	96.8	97	66-150 N2
Allyl chloride	ug/L	20	20.8	104	62-139 N2
3 Benzene	ug/L	20	19.6	98	67-126
Bromobenzene	ug/L	20	20.5	102	72-125 N2
Bromochloromethane	ug/L	20	21.4	107	73-125 N2
Bromodichloromethane	ug/L	20	19.7	98	71-126
Bromoform	ug/L	20	21.3	106	64-130
Bromomethane	ug/L	20	23.6	118	30-150
Carbon tetrachloride	ug/L	20	21.0	105	71-128
Chlorobenzene	ug/L	20	20.1	101	75-125
Chloroethane	ug/L	20	19.7	98	60-130
Chloroform	ug/L	20	21.2	106	73-125
Chloromethane	ug/L	20	15.2	76	49-146
cis-1,2-Dichloroethene	ug/L	20	20.6	103	68-131 N2
cis-1,3-Dichloropropene	ug/L	20	20.6	103	73-125
Dibromochloromethane	ug/L	20	20.9	104	71-125 N2
Dibromomethane	ug/L	20	20.9	105	71-131
Dichlorodifluoromethane	ug/L	20	18.4	92	56-145 N2
Dichlorofluoromethane	ug/L	20	22.0	110	69-128 N2
Diethyl ether (Ethyl ether)	ug/L	20	20.0	100	65-127 N2
Ethylbenzene	ug/L	20	20.7	103	75-125
Hexachloro-1,3-butadiene	ug/L	20	19.7	98	62-145 N2
sopropylbenzene (Cumene)	ug/L	20	20.5	103	75-133
n&p-Xylene	ug/L	40	40.1	100	75-126 N2
Methyl-tert-butyl ether	ug/L	20	21.3	107	73-125 N2
Methylene Chloride	ug/L	20	19.5	97	72-128
n-Butylbenzene	ug/L	20	19.8	99	67-131 N2
n-Propylbenzene	ug/L	20	19.2	96	70-128 N2

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ABORATORY CONTROL SAMPLE:	2272550					
		Spike	LCS	LCS	% Rec	
Parameter	Units	Conc.	Result	% Rec	Limits	Qualifiers
hthalene	ug/L		19.8	99	54-139	N2
ene	ug/L	20	20.3	102	75-125	N2
oropyltoluene	ug/L	20	21.1	105	71-128	N2
utylbenzene	ug/L	20	20.0	100	73-132	N2
ne	ug/L	20	20.6	103	75-128	N2
Butylbenzene	ug/L	20	20.6	103	75-130	
chloroethene	ug/L	20	20.3	101	67-129	
nydrofuran	ug/L	200	205	102	73-137	N2
е	ug/L	20	19.7	99	74-125	
1,2-Dichloroethene	ug/L	20	19.6	98	65-128	
1,3-Dichloropropene	ug/L	20	21.5	107	75-125	N2
proethene	ug/L	20	20.6	103	72-125	
orofluoromethane	ug/L	20	22.2	111	70-132	
chloride	ug/L	20	21.0	105	69-130	
ie (Total)	ug/L	60	60.4	101	75-125	N2
chloroethane-d4 (S)	%.			100	75-125	
mofluorobenzene (S)	%.			99	75-125	
ne-d8 (S)	%.			101	75-125	

MATRIX SPIKE SAMPLE:	2272581						
		10348956016	Spike	MS	MS	% Rec	
Parameter	Units	Result	Conc.	Result	% Rec	Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	20	19.8	99	55-147	N2
1,1,1-Trichloroethane	ug/L	ND	20	22.8	114	45-150	
1,1,2,2-Tetrachloroethane	ug/L	ND	20	19.9	99	52-143	
1,1,2-Trichloroethane	ug/L	ND	20	20.1	101	57-139	
1,1,2-Trichlorotrifluoroethane	ug/L	ND	20	23.1	116	40-150	N2
1,1-Dichloroethane	ug/L	ND	20	20.1	100	46-150	
1,1-Dichloroethene	ug/L	ND	20	21.2	106	42-150	
1,1-Dichloropropene	ug/L	ND	20	22.2	111	45-150	N2
1,2,3-Trichlorobenzene	ug/L	ND	20	20.8	104	51-142	N2
1,2,3-Trichloropropane	ug/L	ND	20	18.8	94	55-142	N2
1,2,4-Trichlorobenzene	ug/L	ND	20	20.7	103	50-143	
1,2,4-Trimethylbenzene	ug/L	ND	20	18.6	93	51-147	N2
1,2-Dibromo-3-chloropropane	ug/L	ND	50	50.0	100	44-149	N2
1,2-Dibromoethane (EDB)	ug/L	ND	20	19.0	95	60-138	N2
1,2-Dichlorobenzene	ug/L	ND	20	20.2	101	55-137	
1,2-Dichloroethane	ug/L	ND	20	19.1	96	50-139	
1,2-Dichloropropane	ug/L	ND	20	19.1	96	61-145	
1,3,5-Trimethylbenzene	ug/L	ND	20	19.4	97	34-150	N2
1,3-Dichlorobenzene	ug/L	ND	20	19.9	99	53-138	
1,3-Dichloropropane	ug/L	ND	20	20.7	103	58-139	
1,4-Dichlorobenzene	ug/L	ND	20	19.1	96	52-135	
2,2-Dichloropropane	ug/L	ND	20	24.6	123	30-150	N2
2-Butanone (MEK)	ug/L	ND	100	94.2	94	30-150	N2

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MATRIX SPIKE SAMPLE:	2272581						
Davamatas	l laita	10348956016	Spike	MS	MS % Rec	% Rec	O a lifi a na
Parameter	Units	Result	Conc.	Result		Limits	Qualifiers
2-Chloroethylvinyl ether	ug/L	ND	50	10.4	21	30-125	-
2-Chlorotoluene	ug/L	ND	20	19.3	96	52-146	
4-Chlorotoluene	ug/L	ND	20	19.0	95	43-142	
1-Methyl-2-pentanone (MIBK)	ug/L	ND	100	95.9	96	46-148	
Acetone	ug/L	25.2	100	127	102	44-150	N2
Allyl chloride	ug/L	ND	20	21.7	109	40-150	N2
Benzene	ug/L	ND	20	19.6	98	49-143	
Bromobenzene	ug/L	ND	20	19.7	98	58-139	N2
Bromochloromethane	ug/L	ND	20	20.8	104	53-144	N2
Bromodichloromethane	ug/L	ND	20	18.9	95	49-145	
Bromoform	ug/L	ND	20	20.1	101	42-142	
Bromomethane	ug/L	ND	20	25.5	127	30-150	
Carbon tetrachloride	ug/L	ND	20	23.0	115	30-150	
Chlorobenzene	ug/L	ND	20	18.8	94	57-137	
Chloroethane	ug/L	ND	20	22.0	110	39-150	
Chloroform	ug/L	ND	20	20.6	103	52-147	
Chloromethane	ug/L	ND	20	16.4	82	45-150	
sis-1,2-Dichloroethene	ug/L	ND	20	19.9	100	44-149	N2
sis-1,3-Dichloropropene	ug/L	ND	20	19.5	98	45-140	
Dibromochloromethane	ug/L	ND	20	19.7	98	49-144	N2
Dibromomethane	ug/L	ND	20	20.1	100	59-142	
Dichlorodifluoromethane	ug/L	ND	20	23.9	119	46-150	N2
Dichlorofluoromethane	ug/L	ND	20	24.2	121	53-150	N2
Diethyl ether (Ethyl ether)	ug/L	ND	20	20.5	102	45-146	N2
Ethylbenzene	ug/L	ND	20	19.3	96	49-141	
Hexachloro-1,3-butadiene	ug/L	ND	20	22.8	114	33-150	N2
sopropylbenzene (Cumene)	ug/L	ND	20	19.5	97	50-150	
n&p-Xylene	ug/L	ND	40	36.7	92	44-150	N2
Methyl-tert-butyl ether	ug/L	ND	20	20.5	102	52-138	N2
Methylene Chloride	ug/L	ND	20	18.2	91	43-149	
n-Butylbenzene	ug/L	ND	20	20.0	100	46-150	N2
n-Propylbenzene	ug/L	ND	20	19.1	96	44-150	
Naphthalene	ug/L	ND	20	18.8	94	45-149	
o-Xylene	ug/L	ND	20	19.0	95	48-146	
o-Isopropyltoluene	ug/L	ND	20	20.9	104	54-147	
sec-Butylbenzene	ug/L	ND	20	20.4	102	51-150	
Styrene	ug/L	ND	20	18.9	94	47-149	
ert-Butylbenzene	ug/L	ND	20	20.9	104	49-149	
etrachloroethene	ug/L	3.1	20	23.2	100	30-150	
etrahydrofuran	ug/L	ND	200	212	106	52-150	N2
oluene	ug/L	ND	200	19.4	97	48-141	
rans-1,2-Dichloroethene	ug/L	ND	20	20.4	102	42-150	
rans-1,3-Dichloropropene	ug/L	ND	20	19.9	99	45-143	N2
Frichloroethene	ug/L	ND	20	20.7	104	38-150	1 14
richlorofluoromethane	ug/L ug/L	ND ND	20	26.8	134	57-150	
/inyl chloride	-	ND ND	20	23.3	117	43-150	
Kylene (Total)	ug/L ug/L	ND ND	60	23.3 55.7	93	45-150	NO

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Pace Project No.: 10348956

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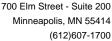
MATRIX SPIKE SAMPLE:	2272581	10348956016	Spike	MS	MS	% Rec	
Parameter	Units	Result	Conc.	Result	% Rec	Limits	Qualifiers
1,2-Dichloroethane-d4 (S)	%.				98	75-125	
4-Bromofluorobenzene (S)	%.				101	75-125	
Toluene-d8 (S)	%.				99	75-125	

		10348956017	Dup		Max	
Parameter	Units	Result	Result	RPD	RPD	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L		ND		30	N2
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	N2
1,1-Dichloroethane	ug/L	ND	ND		30	
1,1-Dichloroethene	ug/L	ND	ND		30	
1,1-Dichloropropene	ug/L	ND	ND		30	N2
1,2,3-Trichlorobenzene	ug/L	ND	ND		30	N2
1,2,3-Trichloropropane	ug/L	ND	ND		30	N2
1,2,4-Trichlorobenzene	ug/L	ND	ND		30	
1,2,4-Trimethylbenzene	ug/L	ND	ND		30	N2
1,2-Dibromo-3-chloropropane	ug/L	ND	ND		30	N2
1,2-Dibromoethane (EDB)	ug/L	ND	ND		30	N2
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	N2
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	N2
2-Butanone (MEK)	ug/L	ND	ND		30	N2
2-Chloroethylvinyl ether	ug/L	ND	ND		30	
2-Chlorotoluene	ug/L	ND	ND		30	N2
4-Chlorotoluene	ug/L	ND	ND		30	N2
4-Methyl-2-pentanone (MIBK)	ug/L	ND	ND		30	N2
Acetone	ug/L	44.5	43.2	3	30	N2
Allyl chloride	ug/L	ND	ND		30	N2
Benzene	ug/L	ND	ND		30	
Bromobenzene	ug/L	ND	ND		30	N2
Bromochloromethane	ug/L	ND	ND		30	N2
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	

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Project: CrC
Pace Project No.: 10348956

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SAMPLE DUPLICATE: 2272582		10348956017	Dup		Max	
Parameter	Units	Result	Result	RPD	RPD	Qualifiers
Chloroform	ug/L		ND		30	
Chloromethane	ug/L	ND	ND		30	
cis-1,2-Dichloroethene	ug/L	ND	ND		30	N2
cis-1,3-Dichloropropene	ug/L	ND	ND		30	
Dibromochloromethane	ug/L	ND	ND		30	N2
Dibromomethane	ug/L	ND	ND		30	
Dichlorodifluoromethane	ug/L	ND	ND		30	N2
Dichlorofluoromethane	ug/L	ND	ND		30	N2
Diethyl ether (Ethyl ether)	ug/L	ND	ND		30	N2
Ethylbenzene	ug/L	ND	ND		30	
Hexachloro-1,3-butadiene	ug/L	ND	ND		30	N2
Isopropylbenzene (Cumene)	ug/L	ND	ND		30	
m&p-Xylene	ug/L	ND	ND		30	N2
Methyl-tert-butyl ether	ug/L	ND	ND		30	N2
Methylene Chloride	ug/L	ND	ND		30	
n-Butylbenzene	ug/L	ND	ND		30	N2
n-Propylbenzene	ug/L	ND	ND		30	N2
Naphthalene	ug/L	ND	ND		30	N2
o-Xylene	ug/L	ND	ND		30	N2
o-Isopropyltoluene	ug/L	ND	ND		30	N2
sec-Butylbenzene	ug/L	ND	ND		30	N2
Styrene	ug/L	ND	ND		30	N2
tert-Butylbenzene	ug/L	ND	ND		30	
Tetrachloroethene	ug/L	ND	ND		30	
Tetrahydrofuran	ug/L	ND	ND		30	N2
Toluene	ug/L	ND	ND		30	
trans-1,2-Dichloroethene	ug/L	ND	ND		30	
trans-1,3-Dichloropropene	ug/L	ND	ND		30	N2
Trichloroethene	ug/L	ND	ND		30	
Trichlorofluoromethane	ug/L	ND	ND		30	
Vinyl chloride	ug/L	ND	ND		30	
Xylene (Total)	ug/L	ND	ND		30	N2
1,2-Dichloroethane-d4 (S)	%.	103	100	3		
4-Bromofluorobenzene (S)	%.	99	99	0		
Toluene-d8 (S)	%.	97	97	1		

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#### **QUALITY CONTROL DATA**

Project: CrC

Pace Project No.: 10348956

QC Batch: MSV/35636 QC Batch Method: EPA 8260B Analysis Method:

EPA 8260B

Analysis Description:

8260B MSV 465 W

Associated Lab Samples: 10348956002

METHOD BLANK: 2264267

Date: 06/02/2016 07:27 AM

Matrix: Water

Associated Lab Samples: 10348956002

		Blank	Reporting		
Parameter	Units	Result	Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	1.0	05/20/16 00:13	- · · · · · · · · · · · · · · · · · · ·
1,1,1-Trichloroethane	ug/L	ND	1.0	05/20/16 00:13	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	05/20/16 00:13	
1,1,2-Trichloroethane	ug/L	ND	1.0	05/20/16 00:13	
1,1,2-Trichlorotrifluoroethane	ug/L	ND	1.0	05/20/16 00:13	
1,1-Dichloroethane	ug/L	ND	1.0	05/20/16 00:13	
1,1-Dichloroethene	ug/L	ND	1.0	05/20/16 00:13	
1,1-Dichloropropene	ug/L	ND	1.0	05/20/16 00:13	
1,2,3-Trichlorobenzene	ug/L	ND	1.0	05/20/16 00:13	
1,2,3-Trichloropropane	ug/L	ND	4.0	05/20/16 00:13	
1,2,4-Trichlorobenzene	ug/L	ND	1.0	05/20/16 00:13	
1,2,4-Trimethylbenzene	ug/L	ND	1.0	05/20/16 00:13	
1,2-Dibromo-3-chloropropane	ug/L	ND	4.0	05/20/16 00:13	
1,2-Dibromoethane (EDB)	ug/L	ND	1.0	05/20/16 00:13	
1,2-Dichlorobenzene	ug/L	ND	1.0	05/20/16 00:13	
1,2-Dichloroethane	ug/L	ND	1.0	05/20/16 00:13	
1,2-Dichloropropane	ug/L	ND	4.0	05/20/16 00:13	
1,3,5-Trimethylbenzene	ug/L	ND	1.0	05/20/16 00:13	
1,3-Dichlorobenzene	ug/L	ND	1.0	05/20/16 00:13	
1,3-Dichloropropane	ug/L	ND	1.0	05/20/16 00:13	
1,4-Dichlorobenzene	ug/L	ND	1.0	05/20/16 00:13	
2,2-Dichloropropane	ug/L	ND	4.0	05/20/16 00:13	
2-Butanone (MEK)	ug/L	ND	5.0	05/20/16 00:13	
2-Chlorotoluene	ug/L	ND	1.0	05/20/16 00:13	
4-Chlorotoluene	ug/L	ND	1.0	05/20/16 00:13	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	5.0	05/20/16 00:13	
Acetone	ug/L	ND	20.0	05/20/16 00:13	
Allyl chloride	ug/L	ND	4.0	05/20/16 00:13	
Benzene	ug/L	ND	1.0	05/20/16 00:13	
Bromobenzene	ug/L	ND	1.0	05/20/16 00:13	
Bromochloromethane	ug/L	ND	1.0	05/20/16 00:13	
Bromodichloromethane	ug/L	ND	1.0	05/20/16 00:13	
Bromoform	ug/L	ND	4.0	05/20/16 00:13	
Bromomethane	ug/L	ND	4.0	05/20/16 00:13	CL
Carbon tetrachloride	ug/L	ND	1.0	05/20/16 00:13	
Chlorobenzene	ug/L	ND	1.0	05/20/16 00:13	
Chloroethane	ug/L	ND	1.0	05/20/16 00:13	
Chloroform	ug/L	ND	4.0	05/20/16 00:13	
Chloromethane	ug/L	ND	4.0	05/20/16 00:13	
cis-1,2-Dichloroethene	ug/L	ND	1.0	05/20/16 00:13	
cis-1,3-Dichloropropene	ug/L	ND	4.0	05/20/16 00:13	

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## **QUALITY CONTROL DATA**

Project: CrC
Pace Project No.: 10348956

Date: 06/02/2016 07:27 AM

METHOD BLANK: 2264267 Matrix: Water

Associated Lab Samples: 10348956002

·		Blank	Reporting		
Parameter	Units	Result	Limit	Analyzed	Qualifiers
Dibromochloromethane	ug/L	ND	1.0	05/20/16 00:13	
Dibromomethane	ug/L	ND	4.0	05/20/16 00:13	
Dichlorodifluoromethane	ug/L	ND	1.0	05/20/16 00:13	
Dichlorofluoromethane	ug/L	ND	1.0	05/20/16 00:13	
Diethyl ether (Ethyl ether)	ug/L	ND	4.0	05/20/16 00:13	
Ethylbenzene	ug/L	ND	1.0	05/20/16 00:13	
Hexachloro-1,3-butadiene	ug/L	ND	1.0	05/20/16 00:13	
Isopropylbenzene (Cumene)	ug/L	ND	1.0	05/20/16 00:13	
Methyl-tert-butyl ether	ug/L	ND	1.0	05/20/16 00:13	
Methylene Chloride	ug/L	ND	4.0	05/20/16 00:13	
n-Butylbenzene	ug/L	ND	1.0	05/20/16 00:13	
n-Propylbenzene	ug/L	ND	1.0	05/20/16 00:13	
Naphthalene	ug/L	ND	4.0	05/20/16 00:13	
p-Isopropyltoluene	ug/L	ND	1.0	05/20/16 00:13	
sec-Butylbenzene	ug/L	ND	1.0	05/20/16 00:13	
Styrene	ug/L	ND	1.0	05/20/16 00:13	
tert-Butylbenzene	ug/L	ND	1.0	05/20/16 00:13	
Tetrachloroethene	ug/L	ND	1.0	05/20/16 00:13	
Tetrahydrofuran	ug/L	ND	10.0	05/20/16 00:13	
Toluene	ug/L	ND	1.0	05/20/16 00:13	
trans-1,2-Dichloroethene	ug/L	ND	1.0	05/20/16 00:13	
trans-1,3-Dichloropropene	ug/L	ND	4.0	05/20/16 00:13	
Trichloroethene	ug/L	ND	0.40	05/20/16 00:13	
Trichlorofluoromethane	ug/L	ND	1.0	05/20/16 00:13	
Vinyl chloride	ug/L	ND	0.40	05/20/16 00:13	
Xylene (Total)	ug/L	ND	3.0	05/20/16 00:13	
1,2-Dichloroethane-d4 (S)	%.	101	75-125	05/20/16 00:13	
4-Bromofluorobenzene (S)	%.	98	75-125	05/20/16 00:13	
Toluene-d8 (S)	%.	105	75-125	05/20/16 00:13	

LABORATORY CONTROL SAMPLE:	2264268					
		Spike	LCS	LCS	% Rec	
Parameter	Units	Conc.	Result	% Rec	Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L		18.9	95	75-125	
1,1,1-Trichloroethane	ug/L	20	18.3	91	73-125	
1,1,2,2-Tetrachloroethane	ug/L	20	20.1	100	75-128	
1,1,2-Trichloroethane	ug/L	20	19.3	96	75-129	
1,1,2-Trichlorotrifluoroethane	ug/L	20	19.3	97	69-125	
1,1-Dichloroethane	ug/L	20	18.8	94	75-131	
1,1-Dichloroethene	ug/L	20	18.3	92	72-125	
1,1-Dichloropropene	ug/L	20	18.1	91	74-125	
1,2,3-Trichlorobenzene	ug/L	20	19.1	95	68-127	
1,2,3-Trichloropropane	ug/L	20	19.7	99	75-125	
1,2,4-Trichlorobenzene	ug/L	20	18.4	92	70-125	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.



Project: CrC
Pace Project No.: 10348956

Date: 06/02/2016 07:27 AM

LABORATORY CONTROL SAMPLE:	2264268				
_		Spike	LCS	LCS	% Rec
Parameter	Units	Conc.	Result	% Rec	Limits Qualifie
,2,4-Trimethylbenzene	ug/L	20	20.2	101	75-130
1,2-Dibromo-3-chloropropane	ug/L	50	45.7	91	74-125
,2-Dibromoethane (EDB)	ug/L	20	19.3	96	75-125
,2-Dichlorobenzene	ug/L	20	19.7	98	75-125
,2-Dichloroethane	ug/L	20	17.2	86	72-129
,2-Dichloropropane	ug/L	20	19.3	96	71-129
,3,5-Trimethylbenzene	ug/L	20	20.7	103	75-127
,3-Dichlorobenzene	ug/L	20	20.2	101	75-125
,3-Dichloropropane	ug/L	20	19.5	98	75-125
,4-Dichlorobenzene	ug/L	20	19.3	97	75-125
,2-Dichloropropane	ug/L	20	17.8	89	71-125
-Butanone (MEK)	ug/L	100	88.6	89	58-150
-Chlorotoluene	ug/L	20	20.1	100	75-125
-Chlorotoluene	ug/L	20	20.3	101	75-130
-Methyl-2-pentanone (MIBK)	ug/L	100	89.8	90	72-140
cetone	ug/L	100	82.1	82	69-137
allyl chloride	ug/L	20	17.1	86	68-132
Benzene	ug/L	20	17.5	87	75-125
romobenzene	ug/L	20	20.8	104	75-125
romochloromethane	ug/L	20	19.9	100	75-125
romodichloromethane	ug/L	20	18.6	93	69-128
Bromoform	ug/L	20	15.8	79	75-125
Bromomethane	ug/L	20	11.2	56	30-150 CL
Carbon tetrachloride	ug/L	20	17.2	86	74-125
Chlorobenzene	ug/L	20	18.2	91	75-125
Chloroethane	ug/L	20	18.1	91	60-150
Chloroform	ug/L	20	19.1	96	75-126
Chloromethane	ug/L	20	14.7	73	46-150
is-1,2-Dichloroethene	ug/L	20	17.2	86	75-126
is-1,3-Dichloropropene	ug/L	20	18.5	92	75-125
Dibromochloromethane	ug/L	20	18.1	90	75-125
Dibromomethane	ug/L	20	19.2	96	72-127
Dichlorodifluoromethane	ug/L	20	17.6	88	58-135
Dichlorofluoromethane	ug/L	20	17.6	88	68-149
Diethyl ether (Ethyl ether)	ug/L	20	18.3	92	66-144
Ethylbenzene	ug/L	20	17.2	86	75-125
lexachloro-1,3-butadiene	ug/L	20	20.0	100	73-125
sopropylbenzene (Cumene)	ug/L	20	18.7	94	69-140
Methyl-tert-butyl ether	ug/L	20	18.6	93	75-126
Methylene Chloride	ug/L	20	17.6	88	71-130
-Butylbenzene	ug/L	20	19.7	98	71-129
-Propylbenzene	ug/L	20	20.4	102	71-133
laphthalene	ug/L	20	18.5	92	59-137
-Isopropyltoluene	ug/L	20	20.4	102	74-127
ec-Butylbenzene	ug/L	20	20.8	104	66-140
Styrene	ug/L	20	18.2	91	75-125
ert-Butylbenzene	ug/L	20	21.4	107	73-129

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Date: 06/02/2016 07:27 AM

ABORATORY CONTROL SAMPLE:	2264268					
		Spike	LCS	LCS	% Rec	
Parameter	Units	Conc.	Result	% Rec	Limits	Qualifiers
Tetrachloroethene	ug/L		19.4	97	75-125	
- etrahydrofuran	ug/L	200	181	90	71-129	
- oluene	ug/L	20	17.4	87	75-125	
rans-1,2-Dichloroethene	ug/L	20	18.9	94	75-125	
ans-1,3-Dichloropropene	ug/L	20	18.7	93	75-125	
ichloroethene	ug/L	20	19.5	97	75-125	
ichlorofluoromethane	ug/L	20	18.4	92	74-128	
nyl chloride	ug/L	20	18.5	93	71-131	
/lene (Total)	ug/L	60	54.6	91	75-125	
2-Dichloroethane-d4 (S)	%.			101	75-125	
Bromofluorobenzene (S)	%.			101	75-125	
oluene-d8 (S)	%.			98	75-125	

MATRIX SPIKE & MATRIX SPIK	KE DUPLICA	ATE: 22642	69		2264270							
			MS	MSD								
	1	10348068003	Spike	Spike	MS	MSD	MS	MSD	% Rec		Max	
Parameter	Units	Result	Conc.	Conc.	Result	Result	% Rec	% Rec	Limits	RPD	RPD	Qual
1,1,1,2-Tetrachloroethane	ug/L	ND ND	20	20	21.9	19.9	110	99	75-125	10	30	
1,1,1-Trichloroethane	ug/L	ND	20	20	24.3	19.8	121	99	71-144	20	30	
1,1,2,2-Tetrachloroethane	ug/L	ND	20	20	22.7	20.8	114	104	75-131	9	30	
1,1,2-Trichloroethane	ug/L	ND	20	20	22.6	19.9	113	99	75-125	13	30	
1,1,2-Trichlorotrifluoroethane	ug/L	ND	20	20	24.5	21.5	123	107	75-150	13	30	
1,1-Dichloroethane	ug/L	ND	20	20	24.6	19.6	123	98	64-150	22	30	
1,1-Dichloroethene	ug/L	ND	20	20	23.6	20.7	118	103	68-150	13	30	
1,1-Dichloropropene	ug/L	ND	20	20	24.0	20.9	120	104	68-145	14	30	
1,2,3-Trichlorobenzene	ug/L	ND	20	20	20.2	20.2	101	101	57-142	0	30	
1,2,3-Trichloropropane	ug/L	ND	20	20	21.7	20.1	109	101	75-125	8	30	
1,2,4-Trichlorobenzene	ug/L	ND	20	20	20.3	20.0	102	100	60-135	1	30	
1,2,4-Trimethylbenzene	ug/L	ND	20	20	21.8	19.8	109	99	67-148	9	30	
1,2-Dibromo-3-	ug/L	ND	50	50	49.0	47.4	98	95	32-137	3	30	
chloropropane	•											
1,2-Dibromoethane (EDB)	ug/L	ND	20	20	21.6	19.2	108	96	75-125	11	30	
1,2-Dichlorobenzene	ug/L	ND	20	20	21.2	19.4	106	97	75-125	9	30	
1,2-Dichloroethane	ug/L	ND	20	20	19.1	17.1	94	84	62-138	11	30	
1,2-Dichloropropane	ug/L	ND	20	20	22.8	19.2	114	96	62-144	17	30	
1,3,5-Trimethylbenzene	ug/L	ND	20	20	22.0	20.5	110	103	67-148	7	30	
1,3-Dichlorobenzene	ug/L	ND	20	20	22.1	20.1	110	101	74-131	9	30	
1,3-Dichloropropane	ug/L	ND	20	20	22.8	20.0	114	100	75-127	13	30	
1,4-Dichlorobenzene	ug/L	ND	20	20	21.3	19.2	107	96	74-126	11	30	
2,2-Dichloropropane	ug/L	ND	20	20	22.1	19.0	110	95	56-146	15	30	
2-Butanone (MEK)	ug/L	ND	100	100	97.8	88.0	98	88	47-150	11	30	
2-Chlorotoluene	ug/L	ND	20	20	22.0	19.8	110	99	74-137	11	30	
4-Chlorotoluene	ug/L	ND	20	20	22.5	20.0	113	100	72-138	12	30	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	100	100	99.6	91.0	100	91	60-147	9	30	
Acetone	ug/L	ND	100	100	94.8	86.6	92	84	61-150	9	30	

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Project: CrC
Pace Project No.: 10348956

Date: 06/02/2016 07:27 AM

MATRIX SPIKE & MATRIX SPIR	KE DUPLIC	ATE: 22642	69 MS	MSD	2264270							
		10348068003	Spike	Spike	MS	MSD	MS	MSD	% Rec		Max	
Parameter	Units	Result	Conc.	Conc.	Result	Result	% Rec	% Rec	Limits	RPD	RPD	Qua
Allyl chloride	ug/L	ND ND	20	20	21.7	19.3	109	96	53-150	12	30	
Benzene	ug/L	ND	20	20	20.1	17.9	100	89	52-147	12	30	
Bromobenzene	ug/L	ND	20	20	23.1	21.0	115	105	75-129	9	30	
Bromochloromethane	ug/L	ND	20	20	22.5	19.9	113	100	72-128	12	30	
Bromodichloromethane	ug/L	ND	20	20	21.1	18.4	105	92	65-137	13	30	
Bromoform	ug/L	ND	20	20	19.1	17.4	95	87	59-133	9	30	
Bromomethane	ug/L	ND	20	20	14.4	14.9	72	75	30-150	4	30	CL
Carbon tetrachloride	ug/L	ND	20	20	20.9	18.3	105	91	73-144	13	30	
Chlorobenzene	ug/L	ND	20	20	21.1	18.5	106	92	75-126	13	30	
Chloroethane	ug/L	ND	20	20	20.1	18.0	101	90	55-150	11	30	
Chloroform	ug/L	ND	20	20	22.2	19.1	111	95	66-143	15	30	
Chloromethane	ug/L	ND	20	20	14.8	16.5	74	83	42-150	11	30	
cis-1,2-Dichloroethene	ug/L	ND	20	20	23.2	19.1	116	95	65-143	19	30	
cis-1,3-Dichloropropene	ug/L	ND	20	20	20.9	18.7	105	93	75-125	11	30	
Dibromochloromethane	ug/L	ND	20	20	20.5	18.2	103	91	75-125	12	30	
Dibromomethane	ug/L	ND	20	20	21.5	20.6	107	103	66-133	4	30	
Dichlorodifluoromethane	ug/L	ND	20	20	21.8	18.9	109	95	74-150	14	30	
Dichlorofluoromethane	ug/L	ND	20	20	20.4	17.3	102	87	68-150	16	30	
Diethyl ether (Ethyl ether)	ug/L	ND	20	20	20.6	17.9	103	89	57-148	14	30	
Ethylbenzene	ug/L	ND	20	20	20.1	17.6	100	88	67-149	13	30	
Hexachloro-1,3-butadiene	ug/L	ND	20	20	23.9	27.0	119	135	65-143	12	30	
sopropylbenzene (Cumene)	ug/L	ND	20	20	22.0	19.8	110	99	64-150	10	30	
Methyl-tert-butyl ether	ug/L	ND	20	20	21.8	19.0	109	95	71-130	14	30	
Methylene Chloride	ug/L	ND	20	20	19.4	17.7	97	88	67-137	9	30	
n-Butylbenzene	ug/L	ND	20	20	21.9	20.4	110	102	70-138	7	30	
n-Propylbenzene	ug/L	ND	20	20	23.4	21.0	117	105	70-148	11	30	
Naphthalene	ug/L	ND	20	20	19.0	19.1	95	96	39-150	1	30	
o-Isopropyltoluene	ug/L	ND	20	20	21.8	20.5	109	103	74-138	6	30	
sec-Butylbenzene	ug/L	ND	20	20	24.2	23.1	121	116	64-150	5	30	
Styrene	ug/L	ND	20	20	20.2	18.2	101	91	75-132	10	30	
ert-Butylbenzene	ug/L	ND	20	20	24.4	23.9	122	119	75-138	2	30	
Tetrachloroethene	ug/L	ND	20	20	23.6	20.6	118	103	73-136	14	30	
Tetrahydrofuran	ug/L	ND	200	200	194	177	97	88	68-142	9	30	
Toluene	ug/L	ND	20	20	20.6	17.9	103	89	69-139	14	30	
rans-1,2-Dichloroethene	ug/L	ND	20	20	21.7	20.0	108	100	75-135	8	30	
rans-1,3-Dichloropropene	ug/L	ND	20	20	21.4	19.5	107	98	66-136	9	30	
Frichloroethene	ug/L	ND	20	20	23.9	20.8	120	104	74-135	14	30	
Trichlorofluoromethane	ug/L	ND	20	20	22.1	18.5	110	92	75-150	18	30	
Vinyl chloride	ug/L	ND	20	20	22.7	20.7	113	103	69-150	9	30	
Xylene (Total)	ug/L	ND	60	60	63.9	56.9	107	95	70-147	12	30	
1,2-Dichloroethane-d4 (S)	%.						100	100	75-125			
1-Bromofluorobenzene (S)	%.						100	102	75-125			
Toluene-d8 (S)	%.						99	99	75-125			

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Project: CrC Pace Project No.: 10348956

Date: 06/02/2016 07:27 AM

QC Batch: MSV/35661 Analysis Method: EPA 8260B

QC Batch Method: **EPA 8260B** Analysis Description: 8260B MSV 465 W

10348956001, 10348956003, 10348956004, 10348956005, 10348956006, 10348956007, 10348956012, Associated Lab Samples:

10348956013, 10348956014

METHOD BLANK: 2265750 Matrix: Water

10348956001, 10348956003, 10348956004, 10348956005, 10348956006, 10348956007, 10348956012,Associated Lab Samples: Rlank

10348956013, 10348956014

100400	30013, 10040330014	Blank	Reporting		
Parameter	Units	Result	Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	1.0	05/21/16 01:25	
1,1,1-Trichloroethane	ug/L	ND	1.0	05/21/16 01:25	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	05/21/16 01:25	
1,1,2-Trichloroethane	ug/L	ND	1.0	05/21/16 01:25	
1,1,2-Trichlorotrifluoroethane	ug/L	ND	1.0	05/21/16 01:25	
1,1-Dichloroethane	ug/L	ND	1.0	05/21/16 01:25	
1,1-Dichloroethene	ug/L	ND	1.0	05/21/16 01:25	
1,1-Dichloropropene	ug/L	ND	1.0	05/21/16 01:25	
1,2,3-Trichlorobenzene	ug/L	ND	1.0	05/21/16 01:25	
1,2,3-Trichloropropane	ug/L	ND	4.0	05/21/16 01:25	
1,2,4-Trichlorobenzene	ug/L	ND	1.0	05/21/16 01:25	
1,2,4-Trimethylbenzene	ug/L	ND	1.0	05/21/16 01:25	
1,2-Dibromo-3-chloropropane	ug/L	ND	4.0	05/21/16 01:25	
1,2-Dibromoethane (EDB)	ug/L	ND	1.0	05/21/16 01:25	
1,2-Dichlorobenzene	ug/L	ND	1.0	05/21/16 01:25	
1,2-Dichloroethane	ug/L	ND	1.0	05/21/16 01:25	
1,2-Dichloropropane	ug/L	ND	4.0	05/21/16 01:25	
1,3,5-Trimethylbenzene	ug/L	ND	1.0	05/21/16 01:25	
1,3-Dichlorobenzene	ug/L	ND	1.0	05/21/16 01:25	
1,3-Dichloropropane	ug/L	ND	1.0	05/21/16 01:25	
1,4-Dichlorobenzene	ug/L	ND	1.0	05/21/16 01:25	
2,2-Dichloropropane	ug/L	ND	4.0	05/21/16 01:25	
2-Butanone (MEK)	ug/L	ND	5.0	05/21/16 01:25	
2-Chlorotoluene	ug/L	ND	1.0	05/21/16 01:25	
4-Chlorotoluene	ug/L	ND	1.0	05/21/16 01:25	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	5.0	05/21/16 01:25	
Acetone	ug/L	ND	20.0	05/21/16 01:25	
Allyl chloride	ug/L	ND	4.0	05/21/16 01:25	
Benzene	ug/L	ND	1.0	05/21/16 01:25	
Bromobenzene	ug/L	ND	1.0	05/21/16 01:25	
Bromochloromethane	ug/L	ND	1.0	05/21/16 01:25	
Bromodichloromethane	ug/L	ND	1.0	05/21/16 01:25	
Bromoform	ug/L	ND	4.0	05/21/16 01:25	
Bromomethane	ug/L	ND	4.0	05/21/16 01:25	
Carbon tetrachloride	ug/L	ND	1.0	05/21/16 01:25	
Chlorobenzene	ug/L	ND	1.0	05/21/16 01:25	
Chloroethane	ug/L	ND	1.0	05/21/16 01:25	
Chloroform	ug/L	ND	4.0	05/21/16 01:25	
Chloromethane	ug/L	ND	4.0	05/21/16 01:25	
cis-1,2-Dichloroethene	ug/L	ND	1.0	05/21/16 01:25	

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#### **QUALITY CONTROL DATA**

Project: CrC
Pace Project No.: 10348956

Date: 06/02/2016 07:27 AM

METHOD BLANK: 2265750 Matrix: Water

Associated Lab Samples: 10348956001, 10348956003, 10348956004, 10348956005, 10348956006, 10348956007, 10348956012,

10348956013, 10348956014

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
cis-1,3-Dichloropropene	ug/L		4.0	05/21/16 01:25	
Dibromochloromethane	ug/L	ND	1.0	05/21/16 01:25	
Dibromomethane	ug/L	ND	4.0	05/21/16 01:25	
Dichlorodifluoromethane	ug/L	ND	1.0	05/21/16 01:25	
Dichlorofluoromethane	ug/L	ND	1.0	05/21/16 01:25	
Diethyl ether (Ethyl ether)	ug/L	ND	4.0	05/21/16 01:25	
Ethylbenzene	ug/L	ND	1.0	05/21/16 01:25	
Hexachloro-1,3-butadiene	ug/L	ND	1.0	05/21/16 01:25	
Isopropylbenzene (Cumene)	ug/L	ND	1.0	05/21/16 01:25	
Methyl-tert-butyl ether	ug/L	ND	1.0	05/21/16 01:25	
Methylene Chloride	ug/L	ND	4.0	05/21/16 01:25	
n-Butylbenzene	ug/L	ND	1.0	05/21/16 01:25	
n-Propylbenzene	ug/L	ND	1.0	05/21/16 01:25	
Naphthalene	ug/L	ND	4.0	05/21/16 01:25	
p-Isopropyltoluene	ug/L	ND	1.0	05/21/16 01:25	
sec-Butylbenzene	ug/L	ND	1.0	05/21/16 01:25	
Styrene	ug/L	ND	1.0	05/21/16 01:25	
tert-Butylbenzene	ug/L	ND	1.0	05/21/16 01:25	
Tetrachloroethene	ug/L	ND	1.0	05/21/16 01:25	
Tetrahydrofuran	ug/L	ND	10.0	05/21/16 01:25	
Toluene	ug/L	ND	1.0	05/21/16 01:25	
trans-1,2-Dichloroethene	ug/L	ND	1.0	05/21/16 01:25	
trans-1,3-Dichloropropene	ug/L	ND	4.0	05/21/16 01:25	
Trichloroethene	ug/L	ND	0.40	05/21/16 01:25	
Trichlorofluoromethane	ug/L	ND	1.0	05/21/16 01:25	
Vinyl chloride	ug/L	ND	0.40	05/21/16 01:25	
Xylene (Total)	ug/L	ND	3.0	05/21/16 01:25	
1,2-Dichloroethane-d4 (S)	%.	97	75-125	05/21/16 01:25	
4-Bromofluorobenzene (S)	%.	98	75-125	05/21/16 01:25	
Toluene-d8 (S)	%.	104	75-125	05/21/16 01:25	

LABORATORY CONTROL SAMPLE:	2265751					
		Spike	LCS	LCS	% Rec	
Parameter	Units	Conc.	Result	% Rec	Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L		19.2	96	75-125	
1,1,1-Trichloroethane	ug/L	20	19.1	95	73-125	
1,1,2,2-Tetrachloroethane	ug/L	20	20.5	102	75-128	
1,1,2-Trichloroethane	ug/L	20	19.6	98	75-129	
1,1,2-Trichlorotrifluoroethane	ug/L	20	19.2	96	69-125	
1,1-Dichloroethane	ug/L	20	18.3	91	75-131	
1,1-Dichloroethene	ug/L	20	17.8	89	72-125	
1,1-Dichloropropene	ug/L	20	18.5	93	74-125	
1,2,3-Trichlorobenzene	ug/L	20	19.5	97	68-127	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.



Project: CrC
Pace Project No.: 10348956

Date: 06/02/2016 07:27 AM

LABORATORY CONTROL SAMPLE	: 2265751					
		Spike	LCS	LCS	% Rec	0
Parameter	Units	Conc.	Result	% Rec	Limits	Qualifiers
,2,3-Trichloropropane	ug/L	20	19.7	99	75-125	
,2,4-Trichlorobenzene	ug/L	20	19.4	97	70-125	
,2,4-Trimethylbenzene	ug/L	20	20.6	103	75-130	
,2-Dibromo-3-chloropropane	ug/L	50	46.3	93	74-125	
,2-Dibromoethane (EDB)	ug/L	20	19.0	95	75-125	
,2-Dichlorobenzene	ug/L	20	20.2	101	75-125	
,2-Dichloroethane	ug/L	20	17.5	87	72-129	
,2-Dichloropropane	ug/L	20	19.1	96	71-129	
,3,5-Trimethylbenzene	ug/L	20	20.7	104	75-127	
,3-Dichlorobenzene	ug/L	20	20.5	102	75-125	
,3-Dichloropropane	ug/L	20	19.7	99	75-125	
,4-Dichlorobenzene	ug/L	20	19.3	97	75-125	
,2-Dichloropropane	ug/L	20	18.0	90	71-125	
-Butanone (MEK)	ug/L	100	91.4	91	58-150	
2-Chlorotoluene	ug/L	20	20.1	100	75-125	
-Chlorotoluene	ug/L	20	20.4	102	75-130	
-Methyl-2-pentanone (MIBK)	ug/L	100	89.9	90	72-140	
cetone	ug/L	100	90.9	91	69-137	
llyl chloride	ug/L	20	17.1	86	68-132	
Benzene	ug/L	20	18.2	91	75-125	
Bromobenzene	ug/L	20	20.6	103	75-125	
Bromochloromethane	ug/L	20	19.3	96	75-125	
romodichloromethane	ug/L	20	18.9	94	69-128	
Bromoform	ug/L	20	15.8	79	75-125	
Bromomethane	ug/L	20	13.7	69	30-150	
Carbon tetrachloride	ug/L	20	17.1	86	74-125	
Chlorobenzene	ug/L	20	18.5	93	75-125	
Chloroethane	ug/L	20	18.5	93	60-150	
Chloroform	ug/L	20	18.1	91	75-126	
Chloromethane	ug/L	20	16.1	81	46-150	
is-1,2-Dichloroethene	ug/L	20	18.9	94	75-126	
is-1,3-Dichloropropene		20	18.6	93	75-126 75-125	
Dibromochloromethane	ug/L	20	18.4	93 92	75-125 75-125	
Dibromochioromethane	ug/L	20	20.5	102	75-125 72-127	
Dichlorodifluoromethane	ug/L	20 20	20.5 17.0	85	72-127 58-135	
Dichlorofluoromethane	ug/L	20	17.0	92	68-149	
	ug/L	20 20		92 93	66-149	
Diethyl ether (Ethyl ether)	ug/L		18.5			
thylbenzene	ug/L	20	17.5	87	75-125	
lexachloro-1,3-butadiene	ug/L	20	19.8	99	73-125	
sopropylbenzene (Cumene)	ug/L	20	19.2	96	69-140	
Methyl-tert-butyl ether	ug/L	20	18.7	94	75-126	
Methylene Chloride	ug/L	20	18.3	91	71-130	
-Butylbenzene	ug/L	20	19.8	99	71-129	
-Propylbenzene	ug/L	20	20.4	102	71-133	
laphthalene	ug/L	20	19.5	97	59-137	
o-Isopropyltoluene	ug/L	20	21.0	105	74-127	
sec-Butylbenzene	ug/L	20	21.0	105	66-140	

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Project: CrC
Pace Project No.: 10348956

Date: 06/02/2016 07:27 AM

ABORATORY CONTROL SAMPLE:	2265751					
		Spike	LCS	LCS	% Rec	
Parameter	Units	Conc.	Result	% Rec	Limits	Qualifiers
tyrene	ug/L	20	18.7	93	75-125	
-Butylbenzene	ug/L	20	21.6	108	73-129	
achloroethene	ug/L	20	19.5	98	75-125	
ahydrofuran	ug/L	200	193	96	71-129	
ene	ug/L	20	17.9	90	75-125	
s-1,2-Dichloroethene	ug/L	20	19.2	96	75-125	
-1,3-Dichloropropene	ug/L	20	18.5	92	75-125	
oroethene	ug/L	20	19.7	98	75-125	
orofluoromethane	ug/L	20	17.2	86	74-128	
chloride	ug/L	20	19.2	96	71-131	
ne (Total)	ug/L	60	55.8	93	75-125	
ichloroethane-d4 (S)	%.			98	75-125	
mofluorobenzene (S)	%.			99	75-125	
ene-d8 (S)	%.			98	75-125	

MATRIX SPIKE & MATRIX SPIR	KE DUPLICA	TE: 22657:	52		2265753							
Parameter	10 Units	0347908001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1,1,2-Tetrachloroethane	ug/L	ND	20	20	18.9	19.0	94	95	75-125	0	30	
1,1,1-Trichloroethane	ug/L	ND	20	20	19.7	20.6	99	103	71-144	4	30	
1,1,2,2-Tetrachloroethane	ug/L	ND	20	20	18.6	19.5	93	97	75-131	5	30	
1,1,2-Trichloroethane	ug/L	ND	20	20	19.1	19.2	96	96	75-125	0	30	
1,1,2-Trichlorotrifluoroethane	ug/L	ND	20	20	21.1	21.2	105	106	75-150	1	30	
1,1-Dichloroethane	ug/L	ND	20	20	20.0	19.6	100	98	64-150	2	30	
1,1-Dichloroethene	ug/L	ND	20	20	19.0	19.9	95	99	68-150	4	30	
1,1-Dichloropropene	ug/L	ND	20	20	20.1	19.9	100	99	68-145	1	30	
1,2,3-Trichlorobenzene	ug/L	ND	20	20	19.2	20.2	96	101	57-142	5	30	
1,2,3-Trichloropropane	ug/L	ND	20	20	18.0	18.4	90	92	75-125	2	30	
1,2,4-Trichlorobenzene	ug/L	ND	20	20	19.0	19.4	95	97	60-135	2	30	
1,2,4-Trimethylbenzene	ug/L	ND	20	20	18.5	18.8	92	94	67-148	2	30	
1,2-Dibromo-3- chloropropane	ug/L	ND	50	50	42.6	43.8	85	88	32-137	3	30	
1,2-Dibromoethane (EDB)	ug/L	ND	20	20	17.7	18.4	89	92	75-125	3	30	
1,2-Dichlorobenzene	ug/L	ND	20	20	18.5	18.7	92	94	75-125	1	30	
1,2-Dichloroethane	ug/L	ND	20	20	16.7	16.5	83	82	62-138	1	30	
1,2-Dichloropropane	ug/L	ND	20	20	18.6	19.8	93	99	62-144	6	30	
1,3,5-Trimethylbenzene	ug/L	ND	20	20	18.6	19.3	93	97	67-148	4	30	
1,3-Dichlorobenzene	ug/L	ND	20	20	19.3	19.2	96	96	74-131	0	30	
1,3-Dichloropropane	ug/L	ND	20	20	19.2	19.3	96	97	75-127	1	30	
1,4-Dichlorobenzene	ug/L	ND	20	20	18.3	18.3	92	91	74-126	0	30	
2,2-Dichloropropane	ug/L	ND	20	20	18.2	18.3	91	92	56-146	1	30	
2-Butanone (MEK)	ug/L	ND	100	100	88.5	88.5	89	88	47-150	0	30	
2-Chlorotoluene	ug/L	ND	20	20	18.4	18.9	92	95	74-137	3	30	
4-Chlorotoluene	ug/L	ND	20	20	19.2	19.2	96	96	72-138	0	30	

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Project: CrC
Pace Project No.: 10348956

Date: 06/02/2016 07:27 AM

MATRIX SPIKE & MATRIX SPI	KE DUPLICAT	TE: 22657	52		2265753							
			MS	MSD								
	10	347908001	Spike	Spike	MS	MSD	MS	MSD	% Rec		Max	
Parameter	Units	Result	Conc.	Conc.	Result	Result	% Rec	% Rec	Limits	RPD	RPD	Qua
I-Methyl-2-pentanone MIBK)	ug/L	ND	100	100	84.6	85.4	85	85	60-147	1	30	
Acetone	ug/L	ND	100	100	85.8	83.7	86	84	61-150	2	30	
Allyl chloride	ug/L	ND	20	20	18.1	18.4	91	92	53-150	1	30	
Benzene	ug/L	ND	20	20	17.1	17.6	85	88	52-147	3	30	
Bromobenzene	ug/L	ND	20	20	18.6	19.2	93	96	75-129	3	30	
Bromochloromethane	ug/L	ND	20	20	18.6	19.6	93	98	72-128	5	30	
Bromodichloromethane	ug/L	ND	20	20	17.9	17.9	89	90	65-137	0	30	
Bromoform	ug/L	ND	20	20	16.0	16.2	80	81	59-133	1	30	
Bromomethane	ug/L	ND	20	20	8.1	13.3	40	66	30-150	49	30	R1
Carbon tetrachloride	ug/L	ND	20	20	17.7	17.9	88	90	73-144	1		
Chlorobenzene	ug/L	ND	20	20	18.1	18.1	91	90	75-126			
Chloroethane	ug/L	ND	20	20	15.2	19.8	76	99	55-150	26		
Chloroform	ug/L	ND	20	20	17.5	17.5	88	88	66-143	0		
Chloromethane	ug/L	ND	20	20	10.2	16.6	51	83	42-150			R1
is-1,2-Dichloroethene	ug/L	ND	20	20	20.5	19.7	98	94	65-143	4		
sis-1,3-Dichloropropene	ug/L	ND	20	20	17.9	18.1	90	91	75-125			
Dibromochloromethane	ug/L	ND	20	20	17.0	17.5	85	87	75-125			
Dibromomethane	ug/L	ND	20	20	19.1	19.8	95	99	66-133	4		
Dichlorodifluoromethane	ug/L	ND	20	20	14.4	20.4	72	102	74-150			M1,
Dichlorofluoromethane	ug/L	ND	20	20	14.1	20.4	70	100	68-150	35		,
Diethyl ether (Ethyl ether)	ug/L	ND	20	20	18.6	18.6	93	93	57-148	0		
Ethylbenzene	ug/L	ND	20	20	17.2	17.1	86	86	67-149	0		
lexachloro-1,3-butadiene	ug/L ug/L	ND	20	20	20.1	25.3	100	127	65-143	23		
•	ug/L ug/L	ND ND	20	20	19.2	19.6	96	98	64-150			
sopropylbenzene (Cumene) Nethyl-tert-butyl ether	_	ND ND	20	20	19.2	19.0	95	95	71-130	0		
	ug/L	ND ND	20	20	16.5	17.3	93 82	95 87	67-137	5		
Methylene Chloride	ug/L	ND ND	20	20	19.3	17.3	96	98	70-138	2		
-Butylbenzene	ug/L	ND ND				20.1				2		
-Propylbenzene	ug/L	ND ND	20 20	20 20	19.6	18.8	98	100	70-148 39-150			
laphthalene	ug/L				17.9		89	94				
-Isopropyltoluene	ug/L	ND	20	20 20	18.5	19.4	93	97	74-138	4		
ec-Butylbenzene	ug/L	ND	20		20.6	21.8	103	109	64-150			
Styrene	ug/L	ND	20	20	17.5	17.7	87	89	75-132			
ert-Butylbenzene	ug/L	ND	20	20	20.4	22.5	102	113	75-138	10		
etrachloroethene	ug/L	8.7	20	20	26.3	27.6	88	95	73-136	5		
etrahydrofuran	ug/L	ND	200	200	173	172	86	86	68-142			
oluene	ug/L	ND	20	20	17.0	17.1	85	86	69-139			
ans-1,2-Dichloroethene	ug/L	ND	20	20	18.7	19.5	93	98	75-135			
ans-1,3-Dichloropropene	ug/L	ND	20	20	17.7	17.8	89	89	66-136			
richloroethene	ug/L	0.49	20	20	20.5	20.9	100	102	74-135			
richlorofluoromethane	ug/L	ND	20	20	15.1	21.6	75	108	75-150			R1
/inyl chloride	ug/L	ND	20	20	15.7	22.8	78	114	69-150			R1
(ylene (Total)	ug/L	ND	60	60	55.3	55.0	92	92	70-147		30	
,2-Dichloroethane-d4 (S)	%.						100	98	75-125			
I-Bromofluorobenzene (S)	%.						96	99	75-125			
oluene-d8 (S)	%.						97	98	75-125			

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#### **QUALITY CONTROL DATA**

Project: CrC
Pace Project No.: 10348956

Date: 06/02/2016 07:27 AM

QC Batch: MSV/35693 Analysis Method: EPA 8260B
QC Batch Method: EPA 8260B Analysis Description: 8260B MSV 465 W

Associated Lab Samples: 10348956008, 10348956010, 10348956015

METHOD BLANK: 2267622 Matrix: Water

Associated Lab Samples: 10348956008, 10348956010, 10348956015

		Blank R			
Parameter	Units	Result	Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	4.0	05/25/16 02:35	
1,1,1-Trichloroethane	ug/L	ND	1.0	05/25/16 02:35	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	05/25/16 02:35	
1,1,2-Trichloroethane	ug/L	ND	1.0	05/25/16 02:35	
1,1,2-Trichlorotrifluoroethane	ug/L	ND	1.0	05/25/16 02:35	
1,1-Dichloroethane	ug/L	ND	1.0	05/25/16 02:35	
1,1-Dichloroethene	ug/L	ND	1.0	05/25/16 02:35	
1,1-Dichloropropene	ug/L	ND	1.0	05/25/16 02:35	
1,2,3-Trichlorobenzene	ug/L	ND	1.0	05/25/16 02:35	
1,2,3-Trichloropropane	ug/L	ND	4.0	05/25/16 02:35	
1,2,4-Trichlorobenzene	ug/L	ND	1.0	05/25/16 02:35	
1,2,4-Trimethylbenzene	ug/L	ND	1.0	05/25/16 02:35	
1,2-Dibromo-3-chloropropane	ug/L	ND	10.0	05/25/16 02:35	
1,2-Dibromoethane (EDB)	ug/L	ND	1.0	05/25/16 02:35	
1,2-Dichlorobenzene	ug/L	ND	1.0	05/25/16 02:35	
1,2-Dichloroethane	ug/L	ND	1.0	05/25/16 02:35	
1,2-Dichloropropane	ug/L	ND	4.0	05/25/16 02:35	
1,3,5-Trimethylbenzene	ug/L	ND	1.0	05/25/16 02:35	
1,3-Dichlorobenzene	ug/L	ND	1.0	05/25/16 02:35	
1,3-Dichloropropane	ug/L	ND	1.0	05/25/16 02:35	
1,4-Dichlorobenzene	ug/L	ND	1.0	05/25/16 02:35	
2,2-Dichloropropane	ug/L	ND	4.0	05/25/16 02:35	
2-Butanone (MEK)	ug/L	ND	5.0	05/25/16 02:35	
2-Chlorotoluene	ug/L	ND	1.0	05/25/16 02:35	
4-Chlorotoluene	ug/L	ND	1.0	05/25/16 02:35	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	5.0	05/25/16 02:35	
Acetone	ug/L	ND	20.0	05/25/16 02:35	
Allyl chloride	ug/L	ND	4.0	05/25/16 02:35	
Benzene	ug/L	ND	1.0	05/25/16 02:35	
Bromobenzene	ug/L	ND	1.0	05/25/16 02:35	
Bromochloromethane	ug/L	ND	1.0	05/25/16 02:35	
Bromodichloromethane	ug/L	ND	1.0	05/25/16 02:35	
Bromoform	ug/L	ND	4.0	05/25/16 02:35	
Bromomethane	ug/L	ND	4.0	05/25/16 02:35	
Carbon tetrachloride	ug/L	ND	1.0	05/25/16 02:35	
Chlorobenzene	ug/L	ND	1.0	05/25/16 02:35	
Chloroethane	ug/L	ND	1.0	05/25/16 02:35	
Chloroform	ug/L	ND	1.0	05/25/16 02:35	
Chloromethane	ug/L	ND	4.0	05/25/16 02:35	
cis-1,2-Dichloroethene	ug/L	ND	1.0	05/25/16 02:35	
cis-1,3-Dichloropropene	ug/L	ND	4.0	05/25/16 02:35	

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## **QUALITY CONTROL DATA**

Project: CrC
Pace Project No.: 10348956

Date: 06/02/2016 07:27 AM

METHOD BLANK: 2267622 Matrix: Water

Associated Lab Samples: 10348956008, 10348956010, 10348956015

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Dibromochloromethane	ug/L	ND ND	1.0	05/25/16 02:35	
Dibromomethane	ug/L	ND	4.0	05/25/16 02:35	
Dichlorodifluoromethane	ug/L	ND	1.0	05/25/16 02:35	
Dichlorofluoromethane	ug/L	ND	1.0	05/25/16 02:35	
Diethyl ether (Ethyl ether)	ug/L	ND	4.0	05/25/16 02:35	
Ethylbenzene	ug/L	ND	1.0	05/25/16 02:35	
Hexachloro-1,3-butadiene	ug/L	ND	4.0	05/25/16 02:35	
Isopropylbenzene (Cumene)	ug/L	ND	1.0	05/25/16 02:35	
Methyl-tert-butyl ether	ug/L	ND	1.0	05/25/16 02:35	
Methylene Chloride	ug/L	ND	4.0	05/25/16 02:35	
n-Butylbenzene	ug/L	ND	1.0	05/25/16 02:35	
n-Propylbenzene	ug/L	ND	1.0	05/25/16 02:35	
Naphthalene	ug/L	ND	4.0	05/25/16 02:35	
p-Isopropyltoluene	ug/L	ND	1.0	05/25/16 02:35	
sec-Butylbenzene	ug/L	ND	1.0	05/25/16 02:35	
Styrene	ug/L	ND	1.0	05/25/16 02:35	
tert-Butylbenzene	ug/L	ND	1.0	05/25/16 02:35	
Tetrachloroethene	ug/L	ND	1.0	05/25/16 02:35	
Tetrahydrofuran	ug/L	ND	10.0	05/25/16 02:35	
Toluene	ug/L	ND	1.0	05/25/16 02:35	
trans-1,2-Dichloroethene	ug/L	ND	1.0	05/25/16 02:35	
trans-1,3-Dichloropropene	ug/L	ND	4.0	05/25/16 02:35	
Trichloroethene	ug/L	ND	0.40	05/25/16 02:35	
Trichlorofluoromethane	ug/L	ND	1.0	05/25/16 02:35	
Vinyl chloride	ug/L	ND	0.40	05/25/16 02:35	
Xylene (Total)	ug/L	ND	3.0	05/25/16 02:35	
1,2-Dichloroethane-d4 (S)	%.	102	75-125	05/25/16 02:35	
4-Bromofluorobenzene (S)	%.	102	75-125	05/25/16 02:35	
Toluene-d8 (S)	%.	100	75-125	05/25/16 02:35	

LABORATORY CONTROL SAMPLE:	2267623					
		Spike	LCS	LCS	% Rec	
Parameter	Units	Conc.	Result	% Rec	Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	20	17.8	89	75-125	
1,1,1-Trichloroethane	ug/L	20	19.9	100	73-125	
1,1,2,2-Tetrachloroethane	ug/L	20	19.2	96	75-128	
1,1,2-Trichloroethane	ug/L	20	20.2	101	75-129	
1,1,2-Trichlorotrifluoroethane	ug/L	20	20.4	102	69-125	
1,1-Dichloroethane	ug/L	20	18.0	90	75-131	
1,1-Dichloroethene	ug/L	20	17.9	89	72-125	
1,1-Dichloropropene	ug/L	20	17.4	87	74-125	
1,2,3-Trichlorobenzene	ug/L	20	18.6	93	68-127	
1,2,3-Trichloropropane	ug/L	20	20.0	100	75-125	
1,2,4-Trichlorobenzene	ug/L	20	17.8	89	70-125	

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Project: CrC
Pace Project No.: 10348956

Date: 06/02/2016 07:27 AM

ABORATORY CONTROL SAMPLE:	2267623					
		Spike	LCS	LCS	% Rec	
Parameter	Units	Conc.	Result	% Rec	Limits	Qualifier
,2,4-Trimethylbenzene	ug/L		19.2	96	75-130	
,2-Dibromo-3-chloropropane	ug/L	50	44.3	89	74-125	
,2-Dibromoethane (EDB)	ug/L	20	19.7	98	75-125	
,2-Dichlorobenzene	ug/L	20	19.3	97	75-125	
,2-Dichloroethane	ug/L	20	17.2	86	72-129	
,2-Dichloropropane	ug/L	20	19.2	96	71-129	
,3,5-Trimethylbenzene	ug/L	20	19.6	98	75-127	
,3-Dichlorobenzene	ug/L	20	19.3	97	75-125	
,3-Dichloropropane	ug/L	20	19.3	97	75-125	
4-Dichlorobenzene	ug/L	20	19.6	98	75-125	
,2-Dichloropropane	ug/L	20	17.8	89	71-125	
-Butanone (MEK)	ug/L	100	85.2	85	58-150	
-Chlorotoluene	ug/L	20	19.4	97	75-125	
-Chlorotoluene	ug/L	20	19.0	95	75-130	
-Methyl-2-pentanone (MIBK)	ug/L	100	90.7	91	72-140	
cetone	ug/L	100	96.4	96	69-137	
Ilyl chloride	ug/L	20	18.6	93	68-132	
enzene	ug/L	20	18.9	95	75-125	
romobenzene	ug/L	20	20.7	103	75-125	
romochloromethane	ug/L	20	21.1	105	75-125	
romodichloromethane	ug/L	20	21.2	106	69-128	
romoform	ug/L	20	15.8	79	75-125	
romomethane	ug/L	20	12.7	63	30-150	
arbon tetrachloride	ug/L	20	20.4	102	74-125	
hlorobenzene	ug/L	20	18.0	90	75-125	
hloroethane	ug/L	20	23.7	118	60-150	
hloroform	ug/L	20	19.7	99	75-126	
hloromethane	ug/L	20	17.6	88	46-150	
is-1,2-Dichloroethene	ug/L	20	19.1	96	75-126	
s-1,3-Dichloropropene	ug/L	20	18.7	93	75-125	
ibromochloromethane	ug/L	20	17.0	85	75-125	
Dibromomethane	ug/L	20	21.4	107	72-127	
Dichlorodifluoromethane	ug/L	20	23.7	119	58-135	
vichlorofluoromethane	ug/L	20	21.7	108	68-149	
riethyl ether (Ethyl ether)	ug/L	20	18.8	94	66-144	
thylbenzene	ug/L	20	17.4	87	75-125	
lexachloro-1,3-butadiene	ug/L	20	20.5	103	73-125	
sopropylbenzene (Cumene)	ug/L	20	17.9	90	69-140	
lethyl-tert-butyl ether	ug/L	20	19.0	95	75-126	
lethylene Chloride	ug/L	20	18.0	90	71-130	
-Butylbenzene	ug/L	20	19.2	96	71-129	
-Propylbenzene	ug/L	20	18.4	92	71-123	
aphthalene	ug/L	20	18.0	90	59-137	
-Isopropyltoluene	ug/L	20	19.9	99	74-127	
ec-Butylbenzene	ug/L	20	18.3	91	66-140	
tyrene	ug/L	20	18.7	94	75-125	
ert-Butylbenzene	ug/L ug/L	20	18.6	93	73-125	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.



Project: CrC
Pace Project No.: 10348956

Date: 06/02/2016 07:27 AM

LABORATORY CONTROL SAMPLE:	2267623					
		Spike	LCS	LCS	% Rec	
Parameter	Units	Conc.	Result	% Rec	Limits	Qualifiers
Tetrachloroethene	ug/L	20	18.4	92	75-125	
Tetrahydrofuran	ug/L	200	190	95	71-129	
Toluene	ug/L	20	17.0	85	75-125	
trans-1,2-Dichloroethene	ug/L	20	19.7	98	75-125	
trans-1,3-Dichloropropene	ug/L	20	18.6	93	75-125	
Trichloroethene	ug/L	20	20.4	102	75-125	
Trichlorofluoromethane	ug/L	20	21.5	107	74-128	
Vinyl chloride	ug/L	20	21.8	109	71-131	
Xylene (Total)	ug/L	60	52.8	88	75-125	
1,2-Dichloroethane-d4 (S)	%.			96	75-125	
4-Bromofluorobenzene (S)	%.			99	75-125	
Toluene-d8 (S)	%.			94	75-125	

MATRIX SPIKE & MATRIX SPIR	KE DUPLIC	ATE: 22689	78		2268979						
			MS	MSD							
	•	10349683001	Spike	Spike	MS	MSD	MS	MSD	% Rec		Max
Parameter	Units	Result	Conc.	Conc.	Result	Result	% Rec	% Rec	Limits	RPD	RPD Qual
1,1,1,2-Tetrachloroethane	ug/L	ND	20	20	16.7	14.5	84	72	75-125	14	30 M1
1,1,1-Trichloroethane	ug/L	ND	20	20	21.2	17.3	106	86	71-144	20	30
1,1,2,2-Tetrachloroethane	ug/L	ND	20	20	18.2	15.3	91	76	75-131	17	30
1,1,2-Trichloroethane	ug/L	ND	20	20	18.8	16.1	94	81	75-125	15	30
1,1,2-Trichlorotrifluoroethane	ug/L	ND	20	20	22.0	17.5	110	88	75-150	23	30
1,1-Dichloroethane	ug/L	ND	20	20	19.5	16.1	98	81	64-150	19	30
1,1-Dichloroethene	ug/L	ND	20	20	19.5	16.7	97	84	68-150	15	30
1,1-Dichloropropene	ug/L	ND	20	20	18.4	15.2	92	76	68-145	19	30
1,2,3-Trichlorobenzene	ug/L	ND	20	20	17.6	16.1	88	81	57-142	9	30
1,2,3-Trichloropropane	ug/L	ND	20	20	18.0	14.9	90	75	75-125	19	30
1,2,4-Trichlorobenzene	ug/L	ND	20	20	17.6	14.4	88	72	60-135	20	30
1,2,4-Trimethylbenzene	ug/L	ND	20	20	17.6	14.2	88	71	67-148	22	30
1,2-Dibromo-3-	ug/L	ND	50	50	39.9	35.4	80	71	32-137	12	30
chloropropane	-										
1,2-Dibromoethane (EDB)	ug/L	ND	20	20	18.3	15.4	91	77	75-125		30
1,2-Dichlorobenzene	ug/L	ND	20	20	18.1	14.3	91	71	75-125		30 M1
1,2-Dichloroethane	ug/L	ND	20	20	17.3	14.4	86	71	62-138		30
1,2-Dichloropropane	ug/L	ND	20	20	19.2	16.2	96	81	62-144		30
1,3,5-Trimethylbenzene	ug/L	ND	20	20	17.9	14.6	89	73	67-148	20	30
1,3-Dichlorobenzene	ug/L	ND	20	20	18.6	14.4	93	72	74-131	25	30 M1
1,3-Dichloropropane	ug/L	ND	20	20	18.0	15.3	90	77	75-127	16	30
1,4-Dichlorobenzene	ug/L	ND	20	20	19.1	14.9	95	75	74-126	24	30
2,2-Dichloropropane	ug/L	ND	20	20	17.6	14.2	88	71	56-146	22	30
2-Butanone (MEK)	ug/L	ND	100	100	77.5	65.8	78	66	47-150	16	30
2-Chlorotoluene	ug/L	ND	20	20	18.2	14.6	91	73	74-137	22	30 M1
4-Chlorotoluene	ug/L	ND	20	20	18.2	14.5	91	73	72-138	22	30
4-Methyl-2-pentanone (MIBK)	ug/L	ND	100	100	85.6	72.8	86	73	60-147	16	30
Acetone	ug/L	ND	100	100	90.4	77.9	90	78	61-150	15	30

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.



Project: CrC
Pace Project No.: 10348956

Date: 06/02/2016 07:27 AM

MATRIX SPIKE & MATRIX SPI	KE DUPLIC	ATE: 22689	78 MS	MSD	2268979							
		10349683001	Spike	Spike	MS	MSD	MS	MSD	% Rec		Max	
Parameter	Units	Result	Conc.	Conc.	Result	Result	% Rec	% Rec	Limits	RPD	RPD	Qua
Allyl chloride	ug/L	ND	20	20	18.2	16.2	91	81	53-150	12	30	
Benzene	ug/L	ND	20	20	17.4	14.7	87	73	52-147	17	30	
Bromobenzene	ug/L	ND	20	20	18.6	15.0	93	75	75-129	21	30	M1
Bromochloromethane	ug/L	ND	20	20	19.5	16.3	98	81	72-128	18	30	
Bromodichloromethane	ug/L	ND	20	20	19.4	16.0	97	80	65-137	19	30	
Bromoform	ug/L	ND	20	20	15.1	13.0	76	65	59-133	15	30	
Bromomethane	ug/L	ND	20	20	13.4	16.9	67	84	30-150	23	30	
Carbon tetrachloride	ug/L	ND	20	20	20.4	17.4	102	87	73-144	16	30	
Chlorobenzene	ug/L	ND	20	20	17.1	14.6	86	73	75-126	16	30	M1
Chloroethane	ug/L	ND	20	20	20.1	18.7	101	94	55-150	7	30	
Chloroform	ug/L	ND	20	20	18.4	15.1	92	76	66-143	20	30	
Chloromethane	ug/L	ND	20	20	10.9	15.0	55	75	42-150	31	30	R1
is-1,2-Dichloroethene	ug/L	ND	20	20	18.7	15.3	94	77	65-143	20	30	
is-1,3-Dichloropropene	ug/L	ND	20	20	17.3	14.5	86	73	75-125	17	30	M1
Dibromochloromethane	ug/L	ND	20	20	16.1	13.7	80	68	75-125	16	30	M1
Dibromomethane	ug/L	ND	20	20	19.5	17.2	97	86	66-133	12	30	
Dichlorodifluoromethane	ug/L	ND	20	20	22.4	21.1	112	106	74-150	6	30	
Dichlorofluoromethane	ug/L	ND	20	20	18.3	16.9	92	85	68-150	8	30	
Diethyl ether (Ethyl ether)	ug/L	ND	20	20	16.9	14.2	84	71	57-148	17	30	
thylbenzene	ug/L	ND	20	20	16.9	14.2	85	71	67-149	18	30	
lexachloro-1,3-butadiene	ug/L	ND	20	20	21.5	22.5	108	113	65-143	4	30	
sopropylbenzene (Cumene)	ug/L	ND	20	20	17.7	14.8	88	74	64-150	18	30	
flethyl-tert-butyl ether	ug/L	ND	20	20	17.6	15.1	88	75	71-130	16	30	
lethylene Chloride	ug/L	ND	20	20	16.1	13.6	80	68	67-137	17	30	
-Butylbenzene	ug/L	ND	20	20	19.3	15.7	97	78	70-138	21	30	
-Propylbenzene	ug/L	ND	20	20	18.5	14.7	92	73	70-148	23	30	
laphthalene	ug/L	ND	20	20	16.3	14.7	78	70	39-150	10	30	
-Isopropyltoluene	ug/L	ND	20	20	18.8	15.2	94	76	74-138	21	30	
ec-Butylbenzene	ug/L	ND	20	20	18.8	16.1	94	81	64-150	15	30	
Styrene	ug/L	ND	20	20	17.2	14.7	86	73	75-132	16	30	M1
ert-Butylbenzene	ug/L	ND	20	20	18.7	16.3	94	82	75-138	13	30	
etrachloroethene	ug/L	ND	20	20	19.2	15.6	96	78	73-136	21	30	
- etrahydrofuran	ug/L	ND	200	200	183	149	92	75	68-142	20	30	
oluene	ug/L	ND	20	20	16.1	13.6	81	68	69-139	17	30	M1
rans-1,2-Dichloroethene	ug/L	ND	20	20	18.2	15.9	91	79	75-135	14	30	
rans-1,3-Dichloropropene	ug/L	ND	20	20	17.4	14.8	87	74	66-136	16	30	
richloroethene	ug/L	ND	20	20	18.5	16.5	92	83	74-135	11	30	
richlorofluoromethane	ug/L	ND	20	20	20.1	18.4	100	92	75-150	9	30	
inyl chloride	ug/L	ND	20	20	18.3	19.7	92	99	69-150		30	
(ylene (Total)	ug/L	ND	60	60	51.3	41.8	85	70	70-147	20	30	
,2-Dichloroethane-d4 (S)	%.						100	100	75-125			
-Bromofluorobenzene (S)	%.						100	101	75-125			
oluene-d8 (S)	%.						94	96	75-125			

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## **REPORT OF LABORATORY ANALYSIS**

(612)607-1700



#### **QUALITY CONTROL DATA**

Project: CrC

Date: 06/02/2016 07:27 AM

Pace Project No.: 10348956

QC Batch: MSV/35707 Analysis Method: EPA 8260B

QC Batch Method: EPA 8260B Analysis Description: 8260B MSV 465 W

Associated Lab Samples: 10348956009, 10348956011

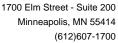
METHOD BLANK: 2268931 Matrix: Water

Associated Lab Samples: 10348956009, 10348956011

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND ND	4.0	05/25/16 12:12	
1,1,1-Trichloroethane	ug/L	ND	1.0	05/25/16 12:12	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	05/25/16 12:12	
1,1,2-Trichloroethane	ug/L	ND	1.0	05/25/16 12:12	
1,1,2-Trichlorotrifluoroethane	ug/L	ND	1.0	05/25/16 12:12	
1,1-Dichloroethane	ug/L	ND	1.0	05/25/16 12:12	
1,1-Dichloroethene	ug/L	ND	1.0	05/25/16 12:12	
1,1-Dichloropropene	ug/L	ND	1.0	05/25/16 12:12	
1,2,3-Trichlorobenzene	ug/L	ND	1.0	05/25/16 12:12	
1,2,3-Trichloropropane	ug/L	ND	4.0	05/25/16 12:12	
1,2,4-Trichlorobenzene	ug/L	ND	1.0	05/25/16 12:12	
1,2,4-Trimethylbenzene	ug/L	ND	1.0	05/25/16 12:12	
1,2-Dibromo-3-chloropropane	ug/L	ND	10.0	05/25/16 12:12	
1,2-Dibromoethane (EDB)	ug/L	ND	1.0	05/25/16 12:12	
1,2-Dichlorobenzene	ug/L	ND	1.0	05/25/16 12:12	
1,2-Dichloroethane	ug/L	ND	1.0	05/25/16 12:12	
1,2-Dichloropropane	ug/L	ND	4.0	05/25/16 12:12	
1,3,5-Trimethylbenzene	ug/L	ND	1.0	05/25/16 12:12	
1,3-Dichlorobenzene	ug/L	ND	1.0	05/25/16 12:12	
1,3-Dichloropropane	ug/L	ND	1.0	05/25/16 12:12	
1,4-Dichlorobenzene	ug/L	ND	1.0	05/25/16 12:12	
2,2-Dichloropropane	ug/L	ND	4.0	05/25/16 12:12	
2-Butanone (MEK)	ug/L	ND	5.0	05/25/16 12:12	
2-Chlorotoluene	ug/L	ND	1.0	05/25/16 12:12	
4-Chlorotoluene	ug/L	ND	1.0	05/25/16 12:12	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	5.0	05/25/16 12:12	
Acetone	ug/L	ND	20.0	05/25/16 12:12	
Allyl chloride	ug/L	ND	4.0	05/25/16 12:12	
Benzene	ug/L	ND	1.0	05/25/16 12:12	
Bromobenzene	ug/L	ND	1.0	05/25/16 12:12	
Bromochloromethane	ug/L	ND	1.0	05/25/16 12:12	
Bromodichloromethane	ug/L	ND	1.0	05/25/16 12:12	
Bromoform	ug/L	ND	4.0	05/25/16 12:12	
Bromomethane	ug/L	ND	4.0	05/25/16 12:12	
Carbon tetrachloride	ug/L	ND	1.0	05/25/16 12:12	
Chlorobenzene	ug/L	ND	1.0	05/25/16 12:12	
Chloroethane	ug/L	ND	1.0	05/25/16 12:12	
Chloroform	ug/L	ND	1.0	05/25/16 12:12	
Chloromethane	ug/L	ND	4.0	05/25/16 12:12	
cis-1,2-Dichloroethene	ug/L	ND	1.0	05/25/16 12:12	
cis-1,3-Dichloropropene	ug/L	ND	4.0	05/25/16 12:12	

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## **REPORT OF LABORATORY ANALYSIS**





Project: CrC
Pace Project No.: 10348956

Date: 06/02/2016 07:27 AM

METHOD BLANK: 2268931 Matrix: Water

Associated Lab Samples: 10348956009, 10348956011

_		Blank	Reporting		
Parameter	Units	Result	Limit	Analyzed	Qualifiers
Dibromochloromethane	ug/L	ND	1.0	05/25/16 12:12	
Dibromomethane	ug/L	ND	4.0	05/25/16 12:12	
Dichlorodifluoromethane	ug/L	ND	1.0	05/25/16 12:12	
Dichlorofluoromethane	ug/L	ND	1.0	05/25/16 12:12	
Diethyl ether (Ethyl ether)	ug/L	ND	4.0	05/25/16 12:12	
Ethylbenzene	ug/L	ND	1.0	05/25/16 12:12	
Hexachloro-1,3-butadiene	ug/L	ND	4.0	05/25/16 12:12	
Isopropylbenzene (Cumene)	ug/L	ND	1.0	05/25/16 12:12	
Methyl-tert-butyl ether	ug/L	ND	1.0	05/25/16 12:12	
Methylene Chloride	ug/L	ND	4.0	05/25/16 12:12	
n-Butylbenzene	ug/L	ND	1.0	05/25/16 12:12	
n-Propylbenzene	ug/L	ND	1.0	05/25/16 12:12	
Naphthalene	ug/L	ND	4.0	05/25/16 12:12	
p-Isopropyltoluene	ug/L	ND	1.0	05/25/16 12:12	
sec-Butylbenzene	ug/L	ND	1.0	05/25/16 12:12	
Styrene	ug/L	ND	1.0	05/25/16 12:12	
tert-Butylbenzene	ug/L	ND	1.0	05/25/16 12:12	
Tetrachloroethene	ug/L	ND	1.0	05/25/16 12:12	
Tetrahydrofuran	ug/L	ND	10.0	05/25/16 12:12	
Toluene	ug/L	ND	1.0	05/25/16 12:12	
trans-1,2-Dichloroethene	ug/L	ND	1.0	05/25/16 12:12	
trans-1,3-Dichloropropene	ug/L	ND	4.0	05/25/16 12:12	
Trichloroethene	ug/L	ND	0.40	05/25/16 12:12	
Trichlorofluoromethane	ug/L	ND	1.0	05/25/16 12:12	
Vinyl chloride	ug/L	ND	0.40	05/25/16 12:12	
Xylene (Total)	ug/L	ND	3.0	05/25/16 12:12	
1,2-Dichloroethane-d4 (S)	%.	98	75-125	05/25/16 12:12	
4-Bromofluorobenzene (S)	%.	100	75-125	05/25/16 12:12	
Toluene-d8 (S)	%.	102	75-125	05/25/16 12:12	

LABORATORY CONTROL SAMPLE:	2268932					
		Spike	LCS	LCS	% Rec	
Parameter	Units	Conc.	Result	% Rec	Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L		17.3	86	75-125	
1,1,1-Trichloroethane	ug/L	20	18.7	94	73-125	
1,1,2,2-Tetrachloroethane	ug/L	20	19.0	95	75-128	
1,1,2-Trichloroethane	ug/L	20	19.6	98	75-129	
1,1,2-Trichlorotrifluoroethane	ug/L	20	19.1	95	69-125	
1,1-Dichloroethane	ug/L	20	18.0	90	75-131	
1,1-Dichloroethene	ug/L	20	17.4	87	72-125	
1,1-Dichloropropene	ug/L	20	16.7	83	74-125	
1,2,3-Trichlorobenzene	ug/L	20	18.9	94	68-127	
1,2,3-Trichloropropane	ug/L	20	19.3	96	75-125	
1,2,4-Trichlorobenzene	ug/L	20	18.4	92	70-125	

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## **REPORT OF LABORATORY ANALYSIS**



Project: CrC
Pace Project No.: 10348956

Date: 06/02/2016 07:27 AM

_ABORATORY CONTROL SAMPLE	: 2268932				
_		Spike	LCS	LCS	% Rec
Parameter	Units	Conc.	Result	% Rec	Limits Qualifie
,2,4-Trimethylbenzene	ug/L	20	19.0	95	75-130
,2-Dibromo-3-chloropropane	ug/L	50	43.7	87	74-125
I,2-Dibromoethane (EDB)	ug/L	20	19.5	98	75-125
1,2-Dichlorobenzene	ug/L	20	19.4	97	75-125
,2-Dichloroethane	ug/L	20	17.8	89	72-129
,2-Dichloropropane	ug/L	20	19.2	96	71-129
,3,5-Trimethylbenzene	ug/L	20	18.7	93	75-127
1,3-Dichlorobenzene	ug/L	20	19.0	95	75-125
,3-Dichloropropane	ug/L	20	18.9	95	75-125
,4-Dichlorobenzene	ug/L	20	19.5	97	75-125
2,2-Dichloropropane	ug/L	20	19.8	99	71-125
2-Butanone (MEK)	ug/L	100	84.2	84	58-150
2-Chlorotoluene	ug/L	20	19.2	96	75-125
l-Chlorotoluene	ug/L	20	18.7	93	75-130
l-Methyl-2-pentanone (MIBK)	ug/L	100	92.6	93	72-140
Acetone	ug/L	100	97.0	97	69-137
Allyl chloride	ug/L	20	18.6	93	68-132
Benzene	ug/L	20	18.4	92	75-125
Bromobenzene	ug/L	20	19.6	98	75-125
Bromochloromethane	ug/L	20	20.0	100	75-125
Bromodichloromethane	ug/L	20	21.0	105	69-128
Bromoform	ug/L	20	14.9	75	75-125
Bromomethane	ug/L	20	14.2	71	30-150
Carbon tetrachloride	ug/L	20	18.8	94	74-125
Chlorobenzene	ug/L	20	17.7	88	75-125
Chloroethane	ug/L	20	23.4	117	60-150
Chloroform	ug/L	20	19.6	98	75-126
Chloromethane	ug/L	20	14.1	71	46-150
cis-1,2-Dichloroethene	ug/L	20	17.4	87	75-126
sis-1,3-Dichloropropene	ug/L	20	19.3	96	75-125
Dibromochloromethane	ug/L	20	16.5	82	75-125
Dibromomethane	ug/L	20	21.2	106	72-127
Dichlorodifluoromethane	ug/L	20	27.2	136	58-135 L0
Dichlorofluoromethane	ug/L	20	20.6	103	68-149
Diethyl ether (Ethyl ether)	ug/L	20	17.9	90	66-144
Ethylbenzene	ug/L	20	17.3	86	75-125
Hexachloro-1,3-butadiene	ug/L	20	21.2	106	73-125
sopropylbenzene (Cumene)	ug/L	20	17.5	87	69-140
Methyl-tert-butyl ether	ug/L	20	19.7	99	75-126
Methylene Chloride	ug/L	20	17.5	88	71-130
n-Butylbenzene	ug/L	20	19.5	98	71-129
i-Propylbenzene	ug/L	20	18.0	90	71-133
Naphthalene	ug/L	20	17.5	88	59-137
o-Isopropyltoluene	ug/L	20	19.5	98	74-127
sec-Butylbenzene	ug/L	20	17.7	88	66-140
Styrene	ug/L	20	18.4	92	75-125
ert-Butylbenzene	ug/L	20	17.7	89	73-129

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

## **REPORT OF LABORATORY ANALYSIS**



Project: CrC
Pace Project No.: 10348956

Date: 06/02/2016 07:27 AM

ABORATORY CONTROL SAMPLE:	2268932					
		Spike	LCS	LCS	% Rec	
Parameter	Units	Conc.	Result	% Rec	Limits	Qualifiers
etrachloroethene	ug/L		18.1	91	75-125	
etrahydrofuran	ug/L	200	198	99	71-129	
oluene	ug/L	20	16.7	84	75-125	
ans-1,2-Dichloroethene	ug/L	20	18.8	94	75-125	
ans-1,3-Dichloropropene	ug/L	20	18.4	92	75-125	
richloroethene	ug/L	20	19.6	98	75-125	
richlorofluoromethane	ug/L	20	22.3	111	74-128	
nyl chloride	ug/L	20	20.3	101	71-131	
ylene (Total)	ug/L	60	51.2	85	75-125	
2-Dichloroethane-d4 (S)	%.			98	75-125	
Bromofluorobenzene (S)	%.			100	75-125	
oluene-d8 (S)	%.			96	75-125	

MATRIX SPIKE & MATRIX SPIR	KE DUPLICA	ATE: 22689	33		2268934							
			MS	MSD								
	1	0348413005	Spike	Spike	MS	MSD	MS	MSD	% Rec		Max	
Parameter	Units	Result	Conc.	Conc.	Result	Result	% Rec	% Rec	Limits	RPD	RPD	Qual
1,1,1,2-Tetrachloroethane	ug/L	ND ND	20	20	16.2	16.1	81	80	75-125	1	30	
1,1,1-Trichloroethane	ug/L	ND	20	20	18.8	18.7	94	94	71-144	0	30	
1,1,2,2-Tetrachloroethane	ug/L	ND	20	20	18.0	17.6	90	88	75-131	2	30	
1,1,2-Trichloroethane	ug/L	ND	20	20	18.6	18.0	93	90	75-125	3	30	
1,1,2-Trichlorotrifluoroethane	ug/L	ND	20	20	20.5	20.4	103	102	75-150	1	30	
1,1-Dichloroethane	ug/L	ND	20	20	17.8	17.8	89	89	64-150	0	30	
1,1-Dichloroethene	ug/L	ND	20	20	17.8	17.6	89	88	68-150	1	30	
1,1-Dichloropropene	ug/L	ND	20	20	17.3	16.2	87	81	68-145	7	30	
1,2,3-Trichlorobenzene	ug/L	ND	20	20	17.9	20.3	89	102	57-142	13	30	
1,2,3-Trichloropropane	ug/L	ND	20	20	17.9	18.2	90	91	75-125	1	30	
1,2,4-Trichlorobenzene	ug/L	ND	20	20	17.1	18.5	86	92	60-135	8	30	
1,2,4-Trimethylbenzene	ug/L	ND	20	20	17.3	17.1	86	85	67-148	1	30	
1,2-Dibromo-3-	ug/L	ND	50	50	40.0	41.5	80	83	32-137	4	30	
chloropropane	•											
1,2-Dibromoethane (EDB)	ug/L	ND	20	20	18.0	17.4	90	87	75-125	4	30	
1,2-Dichlorobenzene	ug/L	ND	20	20	17.8	18.0	89	90	75-125	1	30	
1,2-Dichloroethane	ug/L	ND	20	20	15.7	15.4	78	77	62-138	2	30	
1,2-Dichloropropane	ug/L	ND	20	20	19.3	18.2	96	91	62-144	6	30	
1,3,5-Trimethylbenzene	ug/L	ND	20	20	17.7	17.5	89	88	67-148	1	30	
1,3-Dichlorobenzene	ug/L	ND	20	20	18.0	18.0	90	90	74-131	0	30	
1,3-Dichloropropane	ug/L	ND	20	20	18.0	17.4	90	87	75-127	4	30	
1,4-Dichlorobenzene	ug/L	ND	20	20	18.6	18.2	93	91	74-126	2	30	
2,2-Dichloropropane	ug/L	ND	20	20	20.6	19.9	103	99	56-146	3	30	
2-Butanone (MEK)	ug/L	ND	100	100	78.3	78.0	78	78	47-150	0	30	
2-Chlorotoluene	ug/L	ND	20	20	18.1	17.7	91	88	74-137	2	30	
4-Chlorotoluene	ug/L	ND	20	20	18.1	17.7	90	88	72-138	2	30	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	100	100	85.5	82.7	85	83	60-147	3	30	
Acetone	ug/L	ND	100	100	87.0	89.9	87	90	61-150	3	30	

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## **REPORT OF LABORATORY ANALYSIS**



Project: CrC
Pace Project No.: 10348956

Date: 06/02/2016 07:27 AM

MATRIX SPIKE & MATRIX SPI	KE DUPLIC	ATE: 22689	33 MS	MSD	2268934							
		10348413005	Spike	Spike	MS	MSD	MS	MSD	% Rec		Max	
Parameter	Units	Result	Conc.	Conc.	Result	Result	% Rec	% Rec	Limits	RPD	RPD	Qua
Allyl chloride	ug/L	ND	20	20	17.6	18.3	88	91	53-150	4	30	
Benzene	ug/L	ND	20	20	17.1	16.3	85	81	52-147	4	30	
Bromobenzene	ug/L	ND	20	20	18.3	18.2	91	91	75-129	1	30	
Bromochloromethane	ug/L	ND	20	20	18.3	18.0	91	90	72-128	2	30	
Bromodichloromethane	ug/L	ND	20	20	18.8	18.6	94	93	65-137	2	30	
Bromoform	ug/L	ND	20	20	15.1	14.3	76	71	59-133	6	30	
Bromomethane	ug/L	ND	20	20	16.1	17.8	80	89	30-150	10	30	
Carbon tetrachloride	ug/L	ND	20	20	19.4	18.8	97	94	73-144	3	30	
Chlorobenzene	ug/L	ND	20	20	16.7	16.4	84	82	75-126	2	30	
Chloroethane	ug/L	ND	20	20	21.6	22.4	108	112	55-150	4	30	
Chloroform	ug/L	ND	20	20	16.6	16.5	83	82	66-143	1	30	
Chloromethane	ug/L	ND	20	20	14.8	16.2	74	81	42-150	9	30	
sis-1,2-Dichloroethene	ug/L	ND	20	20	18.0	17.7	90	88	65-143	2	30	
cis-1,3-Dichloropropene	ug/L	ND	20	20	17.6	17.1	88	86	75-125	3	30	
Dibromochloromethane	ug/L	ND	20	20	15.9	15.4	80	77	75-125	3	30	
Dibromomethane	ug/L	ND	20	20	19.0	18.3	95	92	66-133	3	30	
Dichlorodifluoromethane	ug/L	ND	20	20	27.4	30.2	137	151	74-150	10	30	M0
Dichlorofluoromethane	ug/L	ND	20	20	18.8	20.1	94	100	68-150	7	30	
Diethyl ether (Ethyl ether)	ug/L	ND	20	20	14.8	15.7	74	78	57-148	5	30	
Ethylbenzene	ug/L	ND	20	20	16.5	16.2	83	81	67-149	2	30	
lexachloro-1,3-butadiene	ug/L	ND	20	20	20.9	25.4	105	127	65-143	20	30	
sopropylbenzene (Cumene)	ug/L	ND	20	20	17.3	17.0	86	85	64-150	2	30	
Methyl-tert-butyl ether	ug/L	ND	20	20	16.6	17.3	83	87	71-130	4	30	
Methylene Chloride	ug/L	ND	20	20	14.9	14.8	75	74	67-137	1	30	
n-Butylbenzene	ug/L	ND	20	20	19.3	19.3	96	96	70-138	0	30	
n-Propylbenzene	ug/L	ND	20	20	18.2	17.9	91	90	70-148	1	30	
Naphthalene	ug/L	ND	20	20	16.7	18.4	81	89	39-150	10	30	
o-Isopropyltoluene	ug/L	ND	20	20	18.2	18.6	91	93	74-138	2	30	
sec-Butylbenzene	ug/L	ND	20	20	18.3	18.8	92	94	64-150	3	30	
Styrene	ug/L	ND	20	20	17.1	16.8	85	84	75-132	2	30	
ert-Butylbenzene	ug/L	ND	20	20	17.9	18.7	89	94	75-138	5	30	
Tetrachloroethene	ug/L	ND	20	20	19.1	18.3	96	92	73-136	4	30	
Tetrahydrofuran	ug/L	ND	200	200	179	178	90	89	68-142	1	30	
Toluene	ug/L	ND	20	20	15.7	15.6	78	78	69-139	0	30	
rans-1,2-Dichloroethene	ug/L	ND	20	20	17.7	17.1	88	86	75-135	3	30	
rans-1,3-Dichloropropene	ug/L	ND	20	20	17.5	17.0	87	85	66-136	3	30	
richloroethene	ug/L	ND	20	20	19.3	18.2	97	91	74-135	6	30	
richlorofluoromethane	ug/L	ND	20	20	22.6	24.3	113	122	75-150	8		
/inyl chloride	ug/L	ND	20	20	20.9	22.6	105	113	69-150			
Kylene (Total)	ug/L	ND	60	60	49.2	48.6	82	81	70-147	1	30	
,2-Dichloroethane-d4 (S)	%.						95	96	75-125			
I-Bromofluorobenzene (S)	%.						102	101	75-125			
Toluene-d8 (S)	%.						95	96	75-125			

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## **REPORT OF LABORATORY ANALYSIS**



Project: CrC
Pace Project No.: 10348956

Date: 06/02/2016 07:27 AM

MATRIX SPIKE & MATRIX SPI	KE DUPLI	CATE: 22689	35 MS	MSD	2268936							
		10348413006	Spike	Spike	MS	MSD	MS	MSD	% Rec		Max	
Parameter	Units	Result	Conc.	Conc.	Result	Result	% Rec	% Rec	Limits	RPD		Qua
1,1,1,2-Tetrachloroethane	ug/L	ND	20	20	17.4	17.2	87	86	75-125	1	30	
1,1,1-Trichloroethane	ug/L	ND	20	20	20.7	19.2	104	96	71-144	8	30	
1,1,2,2-Tetrachloroethane	ug/L	ND	20	20	19.5	19.6	98	98	75-131	0	30	
1,1,2-Trichloroethane	ug/L	ND	20	20	18.6	19.5	93	98	75-125	5	30	
1,1,2-Trichlorotrifluoroethane	ug/L	ND	20	20	20.9	21.1	105	105	75-150	1	30	
1.1-Dichloroethane	ug/L	ND	20	20	18.8	18.7	94	94	64-150	0	30	
1,1-Dichloroethene	ug/L	ND	20	20	18.7	18.1	93	91	68-150	3	30	
1,1-Dichloropropene	ug/L	ND	20	20	18.0	18.3	90	92	68-145	2	30	
1,2,3-Trichlorobenzene	ug/L	ND	20	20	21.0	22.2	105	111	57-142	6	30	
1,2,3-Trichloropropane	ug/L	ND	20	20	19.1	18.9	95	95	75-125	1	30	
1,2,4-Trichlorobenzene	ug/L	ND	20	20	18.9	20.1	95	100	60-135	6	30	
1,2,4-Trimethylbenzene	_	ND ND	20	20	18.2	18.3	95 91	92	67-148	1	30	
1,2,4-mmethylbenzene 1,2-Dibromo-3-	ug/L ug/L	ND ND	50	50	16.2 46.4	44.0	93	92 88	32-137	5	30	
chloropropane	ug/L	ND	50	50	40.4	44.0	93	00	32-137	5	30	
,2-Dibromoethane (EDB)	ug/L	ND	20	20	18.5	18.6	93	93	75-125	1	30	
,2-Dichlorobenzene	ug/L	ND	20	20	18.6	18.4	93	92	75-125	1	30	
,2-Dichloroethane	ug/L	ND	20	20	16.9	16.9	84	84	62-138	0	30	
,2-Dichloropropane	ug/L	ND	20	20	19.5	19.7	98	99	62-144	1	30	
,3,5-Trimethylbenzene	ug/L	ND	20	20	18.8	18.9	94	95	67-148	1	30	
,3-Dichlorobenzene	ug/L	ND	20	20	18.7	18.9	94	94	74-131	1	30	
,3-Dichloropropane	ug/L	ND	20	20	18.6	18.5	93	92	75-127	1	30	
,4-Dichlorobenzene	ug/L	ND	20	20	19.3	19.4	97	97	74-126	0	30	
,4-Dichloropropane	ug/L	ND	20	20	21.4	21.0	107	105	56-146	2	30	
2-Butanone (MEK)	ug/L	ND	100	100	82.9	81.1	83	81	47-150	2	30	
2-Chlorotoluene		ND	20	20	18.9	19.0	95	95	74-137	0	30	
	ug/L	ND ND	20	20	18.7	18.8	95	95	74-137	_	30	
I-Chlorotoluene I-Methyl-2-pentanone	ug/L	ND ND	100	100	88.9	88.2	94 89	94 88	60-147	0 1	30	
MIBK)	ug/L	ואט	100	100	00.9	00.2	09	00	00-147		30	
Acetone	ug/L	ND	100	100	89.5	89.9	89	90	61-150	0	30	
Allyl chloride	ug/L	ND	20	20	19.0	19.1	95	96	53-150	1	30	
Benzene	ug/L	ND	20	20	17.7	17.8	88	89	52-147	0	30	
Bromobenzene	ug/L	ND	20	20	19.1	19.0	95	95	75-129	0	30	
Bromochloromethane	ug/L	ND	20	20	20.0	19.4	100	97	72-128	3	30	
Bromodichloromethane	ug/L	ND	20	20	20.0	20.2	100	101	65-137	1	30	
Bromoform	ug/L	ND	20	20	15.7	15.8	78	79	59-133	1	30	
Bromomethane	ug/L	ND	20	20	22.4	24.1	112	121	30-150	7	30	
	_	ND	20	20	20.5	20.4	103		73-144	1	30	
Carbon tetrachloride	ug/L		_					102		-		
Chlorobenzene Chloroethane	ug/L	ND ND	20 20	20 20	17.5 23.8	17.5 23.2	88 110	88 116	75-126 55-150	0	30 30	
	ug/L						119			2		
Chloroform	ug/L	ND	20	20	17.8	18.5	89	93	66-143	4	30	
Chloromethane	ug/L	ND	20	20	23.1	19.3	116	96	42-150	18	30	
is-1,2-Dichloroethene	ug/L	ND	20	20	18.1	19.5	90	98	65-143	8	30	
is-1,3-Dichloropropene	ug/L	ND	20	20	17.5	18.4	87	92	75-125	5	30	
Dibromochloromethane	ug/L	ND	20	20	16.2	16.5	81	82	75-125	1	30	
Dibromomethane	ug/L	ND	20	20	20.1	20.2	101	101	66-133	0	30	
Dichlorodifluoromethane	ug/L	ND	20	20	29.7	29.4	149	147	74-150	1	30	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

## **REPORT OF LABORATORY ANALYSIS**

(612)607-1700



## **QUALITY CONTROL DATA**

Project: CrC
Pace Project No.: 10348956

Date: 06/02/2016 07:27 AM

MATRIX SPIKE & MATRIX SPI	KE DUPLICA	ATE: 22689:	35		2268936							
			MS	MSD								
	1	0348413006	Spike	Spike	MS	MSD	MS	MSD	% Rec		Max	
Parameter	Units	Result	Conc.	Conc.	Result	Result	% Rec	% Rec	Limits	RPD	RPD	Qua
Dichlorofluoromethane	ug/L	ND	20	20	20.8	21.2	104	106	68-150	2	30	
Diethyl ether (Ethyl ether)	ug/L	ND	20	20	17.2	16.8	86	84	57-148	2	30	
Ethylbenzene	ug/L	ND	20	20	17.5	17.1	87	86	67-149	2	30	
Hexachloro-1,3-butadiene	ug/L	ND	20	20	29.1	30.8	145	154	65-143	6	30	M1
Isopropylbenzene (Cumene)	ug/L	ND	20	20	18.2	18.6	91	93	64-150	2	30	
Methyl-tert-butyl ether	ug/L	ND	20	20	18.4	18.5	92	93	71-130	0	30	
Methylene Chloride	ug/L	ND	20	20	16.2	16.2	81	81	67-137	0	30	
n-Butylbenzene	ug/L	ND	20	20	20.7	20.6	104	103	70-138	1	30	
n-Propylbenzene	ug/L	ND	20	20	18.9	19.0	95	95	70-148	0	30	
Naphthalene	ug/L	ND	20	20	19.4	19.7	97	99	39-150	2	30	
o-Isopropyltoluene	ug/L	ND	20	20	20.1	19.5	100	98	74-138	3	30	
sec-Butylbenzene	ug/L	ND	20	20	20.5	20.2	102	101	64-150	2	30	
Styrene	ug/L	ND	20	20	17.6	18.1	88	91	75-132	3	30	
ert-Butylbenzene	ug/L	ND	20	20	20.4	20.3	102	102	75-138	0	30	
Tetrachloroethene	ug/L	ND	20	20	19.0	19.2	95	96	73-136	1	30	
Tetrahydrofuran	ug/L	ND	200	200	192	190	96	95	68-142	1	30	
Toluene	ug/L	ND	20	20	15.9	16.3	80	81	69-139	2	30	
rans-1,2-Dichloroethene	ug/L	ND	20	20	19.0	18.5	95	93	75-135	2	30	
rans-1,3-Dichloropropene	ug/L	ND	20	20	18.1	18.2	91	91	66-136	0	30	
Trichloroethene	ug/L	ND	20	20	19.7	19.9	99	99	74-135	1	30	
Trichlorofluoromethane	ug/L	ND	20	20	25.2	24.8	126	124	75-150	2	30	
Vinyl chloride	ug/L	ND	20	20	26.0	24.8	130	124	69-150	5	30	
Kylene (Total)	ug/L	ND	60	60	51.4	51.8	86	86	70-147	1	30	
1,2-Dichloroethane-d4 (S)	%.						97	97	75-125			
4-Bromofluorobenzene (S)	%.						103	102	75-125			
Toluene-d8 (S)	%.						93	96	75-125			

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

## **REPORT OF LABORATORY ANALYSIS**



#### **QUALIFIERS**

Project: CrC
Pace Project No.: 10348956

#### **DEFINITIONS**

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

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.

PQL - Practical Quantitation Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

**DUP - Sample Duplicate** 

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

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

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

TNI - The NELAC Institute.

#### **ANALYTE QUALIFIERS**

c2

Date: 06/02/2016 07:27 AM

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.
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.
N2	The lab does not hold TNI accreditation for this parameter.
P5	The EPA or method required sample preservation degrades this compound, therefore acceptable recoveries may not be achieved in sample matrix spikes.
R1	RPD value was outside control limits.

Acid preservation may not be appropriate for the analysis of 2-Chloroethylvinyl ether.

#### **REPORT OF LABORATORY ANALYSIS**





## **QUALITY CONTROL DATA CROSS REFERENCE TABLE**

Project: CrC
Pace Project No.: 10348956

Date: 06/02/2016 07:27 AM

_ab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10348956016	Influent	EPA 624	MSV/35762		
10348956017	Effluent	EPA 624	MSV/35762		
10348956001	MW-14	EPA 8260B	MSV/35661		
10348956002	MW-15	EPA 8260B	MSV/35636		
10348956003	MW-16	EPA 8260B	MSV/35661		
10348956004	MW-17	EPA 8260B	MSV/35661		
10348956005	MW-18	EPA 8260B	MSV/35661		
10348956006	MW-19	EPA 8260B	MSV/35661		
10348956007	MW-20	EPA 8260B	MSV/35661		
10348956008	DPE-1	EPA 8260B	MSV/35693		
10348956009	DPE-2	EPA 8260B	MSV/35707		
10348956010	DPE-3	EPA 8260B	MSV/35693		
10348956011	DPE-4	EPA 8260B	MSV/35707		
10348956012	DPE-5	EPA 8260B	MSV/35661		
10348956013	DPE-6	EPA 8260B	MSV/35661		
10348956014	DPE-7	EPA 8260B	MSV/35661		
10348956015	DPE-8	EPA 8260B	MSV/35693		

# CHAIN-OF-CUSTODY / Analytical Request Document

9568 250 The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

DRINKING WATER 2023981 J OTHER F GROUND WATER F Page: REGULATORY AGENCY RCRA Requested Analysis Filtered (Y/N) STATE: NPDES Site Location TSU T mag andment Ven i Secusion Invoice Information:
Attention: 5 hours in Company Name: Pace Quote Reference: Pace Project Manager: Pace Profile #; Section C Address: Report To Kraws faul warkeens. Com Copy To: 15 Kraws faul @ landown Kens. Com しょう Section B Required Project Information: Purchase Order No.: Project Number: Project Name: Email To, Lucke / Land were Kend Con and anail Eurisa named Requested Due Date/TAT: Mのいれる Pace Analytical www.parellets.com Section A Required Client Information: Company: Address: Phone:

	Section D Required Client Information	흏닭				COLLECTED	TED			Pre	Preservatives	sə,	N/A								
		Drinking Water DW Water WT Waste Water WW Product P Soil/Soild SL	see valid codes	-GRAB C≂CC	COMPOSITE	, , , , , , , , , , , , , , , , , , ,	COMPOSITE END/GRAB	OLLECTION	S									(N/X) €			
	SAMPLE ID (A-2, 0-9 / -) Sample IDS MUST BE UNIQUE	Oil OIL Wipe WP Air AR Tissue TS Other OT		:D) 39YT:				TA 9M3T	NTAINER Pevie	ne			iseT sisy	מרצ				al Chlorine			
TEM#				BJ9MA8	DATE	TIME	DATE	TIME SAMPLE	# OE CC	HNO ³	N ^g OH HCl	Na ₂ S ₂ C Methan Other		7.×					Pace Project No./ Lab I.D.	ect No./ L	ab I.D.
	MW-ly			3	5/13/16 15	15:30			٤				×								100
2	MW-15			5	11/61/5	15:45			2				×								8
<u>۳</u>	MW-16			5,	5/17/16 16	12:50			8				<b>&gt;</b>	- 1							803
4	ti-mu			5/	118/16	11:205			~				<u>~</u>	7							Ď,
1.C			-	177	18/16	11.30			٦.				_							ļ	200
9	p]-MM			12,	117/16/18	18:45			~					)							8
7				2	115/1616	60:01			٤				^	*							g
80				5,	116/16	10:40			~				*								ģ
6	2-200			15	9]/8]	115			<b>~</b>				<u>~</u>	<b>x</b>			$\dashv$			į	, 6g
9	DPE-3			7,	7//81/	05:01			3				<u>×</u>								<b>8</b>
7	カーヨdへ !			15	21/81	oo tol			ار د				<u>^</u>								) 0
12	2 DPE-5			74	1 19/4/19	12:3			3				<u> </u>								ې۵
L	ADDITIONAL COMMENTS	NTS	RELIN	งดบเร่า	RELINQUISHED BY / AFFILIATION	FILIATION		DATE	TIME	JIJ .		ACCEPTE	D BY / A	ACCEPTED BY / AFFILIATION	DATE	TIME	fe fe	S	SAMPLE CONDITIONS	NDITIONS	
			1	1	13	$  \  $	1	91/81/	2	52	/	K	1	PHE	5-1816	16	433	3 \	V /	と	
1			5		2			-													_
1																					
										$\vdash$											
_gye					ŝ	AMPLER N	SAMPLER NAME AND SIGNATURE	GNATUR	Ш	┧,		: .		: -		-		uo	۸		tastr
70 o	70 -	CAIGINAL	4		1	H.	PRINT Name of SAMPLER:	SAMPLER		tara	7	nek						cejved	N/Y) ec	(N/A)	il səlqi (N/Y)
112	f 70					SIC	SIGNATURE of SAMPLER:	SAMPLER	Ŋ		1		١	DATE Signed (MM/DD/YY):	05/18	9)/	_	 9A	)		Sam
		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.	VET 30 day	ıy payme	ent terms and	agreeing to la	te charges of 1.	.5% per mont	h for any in	voices not	paid withi	1 30 days.					Ľ	ALL-Q-02	F-ALL-Q-020rev.07, 15-May-2007	-May-2007	

# CHAIN-OF-CUSTODY / Analytical Request Document

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

102 4801 EC

DRINKING WATER 2023985 4 OTHER GROUND WATER | Page: REGULATORY AGENCY RCRA Requested Analysis Filtered (Y/N) NPDES F Site Location STATE T UST An Bush Altention: Sparon Paradize 4 Yemi Sompany Name Pace Quote Reference: Pace Project Manager: Pace Profile #: Section C Address: CODY TO: SYVEWYSHO, CI() and markenion Section B
Required Project Information:
Report To: GI KNCKE Introdymark (1) And Prince In Internation ر ر Purchase Order No.: Project Number: roject Name: Email To Kuck @ Jandynay Lini @ Chryson Ward 2 Pace Analytical www.pacelabs.com company. L. Sin dynus K Section A Required Glent Information: Requested Due Date/TAT: Phone:

		Sol P	्रेट © Pace Project No./ Lab I.D.	< >>	hig	ا ا ا ا ا ا ا ا ا ا ا ا ا ا ا ا ا ا ا	d)s	(F)								DATE TIME	ARE 5194 1643 33 7 N Y			on y y noter	mi qma Custod Custod (V/V)	문 등 ( Ses
Z Preservatives		e( loi iseaT sisy	NOV	<b>×</b>		×	, , ,									TIME ACCEPTED BY / AFFILIATION	1643 //L-That				Agron Kuck	la la Min
COLLECTED	COMPOSITE	D TA GMET :		5 35	15.16	9:40	e   ora	3,15					-			DATE	1 19/18/19			SAMPLER NAME AND SIGNATURE	PRINT Name of SAMPLER:	SIGNATURE of SAMPLER:
(Heli c	WW TOW COMPOSITE  See valid codes to COMPOSITE  START	(CODE	элчмаг Р Б	NATE S/FILL	· 2年6	0/18/16 c	1/10/1/6/1/6/	4 + Kingle 11:15								RELINQUISHED BY / AFFILIATION	MAN	3		/s		
Section D  Required Client Information  MATRIX / CODE		SAMPLE ID Wipe Wipe (A-Z, 0-91,-) Air Sample IDs MUST BE UNIQUE Tissue Other		0.550	5PE-7	DPE - 8	Influct	FFFlyent								ADDITIONAL COMMENTS					5	
ν̈́κ			ITEM#	-	7	က	4	2	9	7	8	6	9	7	12				P	age	71 of	72



## Document Name: Sample Condition Upon Receipt Form

Document No.: F-MN-L-213-rev.16 Document Revised: 04Apr2016

Page 1 of 1

Issuing Authority: Pace Minnesota Quality Office

Sample Condition	Client Name:			-	Project	** W0#:10348956
Upon Receipt	Landow	k Ens.		•.		MOH. TOOHOOOO
Courier:	Fed Ex		TUSP5	<b>W</b>	Client	
Commercial	Pace	SpeeDee [	_ ]Other:			10348956
Tracking Number:						10070000
Custody Seal on Coc	oler/Box Present?	☐Yes ✓No		Seals Int	tact?	Yes No Optional: Proj. Due Date: Proj. Name:
Packing Material:	Bubble Wrap	Bubble Bags	■Nor	ne 🗌	Other:	Temp Blank? Yes
=	151401163 151401164	<b>⊉</b> 888A912167504 □ B88A0143310098	Тур	e of Ice:	<b>∡</b> We	et Blue None Samples on ice, cooling process has begun
Cooler Temp Read (°	, <u>, , , , , , , , , , , , , , , , , , </u>	Cooler Temp Corre	cted (°C	): 3,	3	Biological Tissue Frozen? Yes No / M/A
Temp should be above	-	Correction Factor		rue		ate and Initials of Person Examining Contents: Class 5-1816
USDA Regulated Soil Did samples originate in			ntor: Al	AD A7 C	A EL GA	ID IA Did grant to extering to from a foreign power fiction with
MS, NC, NM, NY, OK, O			ates. AL,	AN, AZ, C	Yes	, ID, LA. Did samples originate from a foreign source (internationally,  No including Hawaii and Puerto Rico)? Yes No
If	Yes to either quest	ion, fill out a Regul	ated So	l Checkli	st (F-MN-	N-Q-338) and include with SCUR/COC paperwork.
		•		- · · · · · -		COMMENTS:
Chain of Custody Pres	ent?		Yes	□No	□N/A	1.
Chain of Custody Fille	d Out?	<u></u>	Yes	□No	□N/A	2.
Chain of Custody Relia	nguished?		Yes	□No	□N/A	3.
Sampler Name and/or	Signature on COC?		₹Yes	□No	□n/a	4.
Samples Arrived withi	n Hold Time?		¥Yes	□No	□N/A	5.
Short Hold Time Anal	ysis (<72 hr)?		∐Yes	Mo	□N/A	6.
Rush Turn Around Tir	ne Requested?		Yes	No	□N/A	7.
Sufficient Volume?		.**	Yes	∏No	□N/A	8.
Correct Containers Us	ed?		Yes	□No	□n/a	9.
-Pace Containers U	sed?		Yes	□No	□n/a	
Containers Intact?			Yes	□No	N/A	10.
Filtered Volume Recei	ved for Dissolved Te	sts?	□Yes	No		
Sample Labels Match	COC?		Yes	□No	□N/A	
-Includes Date/Tim	e/ID/Analysis Matr	ix: <b>6-T</b>				
All containers needing	<del></del>					13 Dung Musa Dung Musa
checked?			□Yes	□No	A/N	13. □HNO ₃ □H ₂ 5O ₄ □N∂OH □HCl
All containers needing compliance with EPA		una to be in		•	•	Sample #
(HNO ₃ , H ₂ SO ₄ , HCl<2; I			□Yes	□No	<b>∡</b> N/A	
Exceptions: VOX, Colif DRO/8015 (water) DO		rease,	<b>∏</b> Yes	□No	□n/a	Initial when Lot # of added completed: preservative:
Headspace in VOA Via		CW 5.18.16			<b>[</b> □]\\/A	
Trip Blank Present?		. (20 31112	Yes	X No	□N/A	
Trip Blank Custody Sea	als Present?		□Yes	□No	DaN/A	
Pace Trip Blank Lot # (	if purchased):					1
CLIENT NO	OTIFICATION/RESO	LUTION				Field Data Required? Yes No
Person Contacted:						Date/Time:
Comments/Resolutio					·· ·· ·	
Project Mar	nager Review:	. 4				Date: 5/18/16

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

## Attachment B

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

CLIENT NAME: CITY OF ROCHESTER		DATE:	12/14	15	
PROJECT ID: CRC		TIME: //	1300		
PROJECT NAME: MN BIO BUSINESS CENTER		RECORDE	D BY: 🖊	DIC &	SMR
2009 SYSTEM STARTUP INFORMATION	9.43 for a f	en seconds			
Startup Date: 6/29/2009 MS Discharge Totali	izer: 68	Sump Disch	narge Tota	alizer: 200	) ,
NOTES - LEAVE VACUUM RELIEF VALVE SELE LEAVE AIR STRIPPER SELECTOR SW	1				
CURRENT OPERATING WELL:		STA	ATIC WAT	TER LEVE	ELS
DPE WELL BLEED VALVE % OPEN:	an de comme			Well	Depth to
DPE PUMP BLEED VALVE % OPEN:		C	Clean to	Depth	Water
DPEH 12/15/15	#2		Dirty	below	below
ANALOG PANEL READINGS		F	Ranking	TOC (FT)	TOC (FT)
DPE PUMP AIR FLOW (SCFM): 53.5	54.1	√MW-14	3	17.5	11.30
DPE WELL VACUUM (IN. HG): 16,43	16.67	/MW-15	4	18	13.65
DPE PUMP INLET VACUUM (IN. HG): 17,87	17.87	√MW-16	10	18	11.64
DPE PUMP OUTLET PRESSURE (PSI): 0,07		/ MW-17	7	25	12.39
DPE PUMP OUTLET TEMP (DEG. F): 206.1	0.08	/_MW-18	6	60	12.94
MS PUMP WATER FLOW (GPM): 0,0?	726,2	MW-19	1		3.10
1		MW-20	8	V	2.41
TOTAL PANEL READINGS		DPE-1	15	21.9	14.55
BI E VIGOGIAIT GIVII (TITO)	CONTRACTOR CONTRACTOR	DPE-2	13	20.5	14.71
MS PUMP (HRS): 2105		DPE-3	14	17.1	14.89
MS VACUUM VALVE (HRS): 693	693	✓ DPE-4	12	19.3	14.91
AIR STRIPPER BLOWER (HRS): 12868	12868	DPE-5	9	18.1	14.49
AIR STRIPPER PUMP (HRS): 825	825	✓ DPE-6	5		14.35
DPE AIR FLOW (SCF): 108597000	108598000	✓ DPE-7	2		5.61
MS PUMP WATER FLOW (GAL): 1982639	1982659	DPE-8	11		15.43
SUMP PUMP WATER FLOW (GAL):	610	Sump	11	7.74	
FIELD MEASUREMENTS	610	ODER	ATING W	VATER LE	VEI S
DPE WELL CASING VACUUM (MM HG): 15.0	7 +	DPE-1	ATING V	VAILIVLL	VLLO
DDE MANUEOLD MACHUNA (INL. LIC)	7.5	DPE-2		<del>\</del>	
DPE WELL (PRE-MS-1) VACUUM (IN.HG): 16.9	7.0	DPE-3		7	
	16.8	DPE-4	7		
POST-MS-1 VACUUM (IN. HG): 16.9 POST-MS-2 VACUUM (IN. HG): 17.	17.1	DPE-5			
DPE PUMP AIR FLOW (SCFM): 55	55	DPE-6			
DPE EXHAUST PID CONC. (PPM): 45,3	21.6	DPE-7			
DPE PUMP OUTLET PRESSURE (IN. H2O)): 0	0	DPE-8			
DPE PUMP OUTLET TEMP (DEG. F): 200	720				<del></del>
		SUMP RO	OM PID:		
MS PUMP WATER FLOWRATE (WHILE PUMPING) (GP	M):				<del></del>
MS PUMP WATER PRESSURE (WHILE PUMPING) (PSI		BASEMEN	IT PID RE	ADINGS:	
MS PUMP FLOW TOTALIZER READING (GAL):	.,,				
me i em i zevi revi alezivite (ene).		COMMEN	TS/MAIN	TENANCE	:
AS EXHAUST PRESSURE (IN. H20):	. 10,	, <i>Ù</i>			-
AS DISCHARGE PUMP PRESSURÉ (WHILE PUMPING)	(PSI): 0.0 0.	. 0			
AS BLOWER PRESSURE (IN. H20):	1/	/:			
AS EXHAUST PID (PPM):		·			
ELEVATOR DRAIN TILE SUMP FLOW TOTALIZER (GAL	_):				
F:\PROJECTS\Crc-City of Rochester\Field Data\DPE FIELD FORM	18.0 PSI	MS Pan	e water	Flour F	77: 11 1.4
F:\PROJECTS\Crc-City of Rochester\Field Data\DPE FIELD FORM	Amaza Amaza		( x	1000	2, 11.07 gpm

# Landmark Environmental, LLC

# **Field Information Data Sheet**

Client Name: _C	City of Roche	ester						
Project Name:C	CRC		Proj	ect Numb	er:		2	
Location: Multip	ole Location		Date	<b>:</b>		12/	14/15	,
Station:			Sam	ple time:	-	11:30	/	,
Multiple Sampling Log:	·	Time/ Volume	Temp °C	Cond @ 25	pН	Eh	D.O.	
Location:								
DPE-1:		13:25	19,56	4053	7.53	218.1	1	
DPE-2:		13:05	19.00	5 137	7.70	79.8	3.65	
DPE-3:		13:15	19.31	8178	7.56	153. 3	34.63	23.67
DPE-4:		12:55	19.88	5983	6.69	-64.3	2,14	
DPE-5:		12:35	19.67	4175	3.01	1624	2.70	
DPE-6:		12105	19.65	1390	7,50	274.3	3,60	
DPE-7:		11:40	19.73	2297	7.41	182.7	3.01	
DPE-8:		12:45	19.86	9141	7,28	160.3	3.08	
Rate, gpm:								
Volume purged:								
Duplicate collected?								
Sampled by:	AOK				(8)			
Others present:	SMR			Well Co	ndition			
Analysis:	VOC	filtered me	tal 1	nl filter	in-line fi	lter (	others:	0
MW:gw monitoring	well WS:wa	iter supply	well SW	:surface v	vater SE	:sedime	nt other	:

MW:gw monitoring well WS:water supply well SW:surface water SE:sediment Measurements are referenced from top of riser pipe, unless otherwise indicated.

Client Name:	City of Roche	ester							
Project Name:	CRC		Proj	ect Numb	er:				
Location: MW-	-14		Date	<b>:</b>		2/14/	15		
Station:			Sam	ple time:		20			
Casing diameter:	2"	Time/	Temp	Cond	рН	Eh	D.O.		rb.
Total well depth:	17.5	Volume	°C	@ 25				N'	ľU
Static water level:	11.30		17.99	7173	6.47	69.8	2.48		
Water depth ¹ :	6,2	11:50	19.76	0987		218.9	4.47		
Well volume (gal):	1.01								
Purge method:									
Sample Method:									
Start time:									
Stop time:									
Duration (min.):		Odor:							
Rate, gpm:		Purge appearan	ce:						
Volume purged:	1.0	Sample appearan	ice:	C	loudy	brou	Jn -		
Duplicate collected?	No	Commen							
Sampled by:	ADK			Volum	ne o	17			
Others present:	SMPL			Well Co	ndition				
Analysis:	VOC	filtered me	tal r	nl filter	in-line f	lter	others:		
MW:gw monitorin	ig well WS:wa	ter supply	well SW	surface v	vater SF	E:sedime	nt other		

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

(water )x (diametra & the well )=4 (.0408) = Valume ingallows

Client Name:	City of Roche	ester						
Project Name:	CRC		Proj	ect Numb	er:			
Location: MW-	15		Date	<b>)</b> :		2/14/	15	
Station:			Sam	ple time:		11:50		
		1	1	T				
Casing diameter:	2"	Time/	Temp	Cond	рН	Eh	D.O.	Turb.
Total well depth:	18	Volume	°C	@ 25				NTU
Static water level:	13.65	11:50	20.62	2249	7.39	235.4	3.27	
Water depth ¹ :	4.35							
Well volume (gal):	0.71							
Purge method:								
Sample Method:								
Start time:								
Stop time:								
Duration (min.):		Odor:						
Rate, gpm:		Purge appearan	ice:					
Volume purged:	3/4 201	Sample appearan	ice:	C	(ear			
Duplicate collected?	No	Commer	nts:	6				
Sampled by:	AOK			Volum	eo	) of		
Others present:	SMR			Well Co	ndition			
Analysis:	VOC	filtered me	etal r	nl filter	in-line fi	ilter	others:	
MW:gw monitoring	g well WS:wa	nter supply	well SW	:surface v	vater SI	E:sedime	nt other	;

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

Client Name:	City of Roche	ester						
Project Name:	CRC		Proj	ect Numb	er:	CRC-	-14	
Location: MW-	16		Date	):	Aug	ust 22,	2014	2/14/1
Station:			Sam	ple time:	·			/ /
				Г	Т			
Casing diameter:	2"	Time/	Temp	Cond	рН	Eh	D.O.	Turb.
Total well depth:	18	Volume	°C	@ 25				NTU
Static water level:	11.64	12:25	19.89	4269	7.49	111.4	2,55	
Water depth ¹ :	6.34					2		
Well volume (gal):	1.04							
Purge method:								
Sample Method:								
Start time:								
Stop time:								
Duration (min.):		Odor:		1				
Rate, gpm:		Purge appearan	ce:					
Volume purged:	1.0	Sample appearan	ice:	Clo	ybu	brow	'n	
Duplicate collected?	NU	Commen		1 90				
Sampled by:	ADIC			1 ga		1		
Others present:	SM2	-		Well Co	ndition			
Analysis:	VOC	filtered me	etal 1	ml filter	in-line f	ilter	others:	
MW:gw monitoring	g well WS:wa	iter supply	well SW	:surface v	water SI	E:sedime	ent other	:

MW:gw monitoring well WS:water supply well SW:surface water SE:sediment Measurements are referenced from top of riser pipe, unless otherwise indicated.

# Landmark Environmental, LLC

# **Field Information Data Sheet**

Client Name:	City of Roche	ester				12				
Project Name:	CRC		Proje	ect Numb	er:					
Location: MW-	·17		Date	<b>:</b> :		12/14	15			
Station: 2	5		Sam	ple time:		¥				
		1	ı	Г	1					
Casing diameter:	2"	Time/	Temp	Cond	pН	Eh	D.O.	Turb.		
Total well depth:	25	Volume	°C	@ 25				NTU		
Static water level:	12.39	12:15	19.68	1952	8.65	-78.3	0.81			
Water depth ¹ :	12.6									
Well volume (gal):	2.06									
Purge method:										
Sample Method:										
Start time:										
Stop time:										
Duration (min.):		Odor:								
Rate, gpm:		Purge appearan	ice:				140)			
Volume purged:	2 gal	Sample appearan	ice:							
Duplicate collected?	No	Commen			17	. /				
Sampled by:	ADK		1	umped	71	7				
Others present:	SMR			Well Co	ondition					
Analysis:	VOC	filtered me	etal 1	ml filter	in-line f	ilter	others:			
MW:gw monitoring	ng well WS:wa	ater supply	well SW	:surface	water SI	E:sedime	nt other	:		

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

Client Name: _C	City of Roche	ester						
Project Name:	CRC		Proje	ect Numb	er:			
Location: MW-1	8		Date	:		12/1	4/15	
Station:			Sam	ple time:				
							1	1
Casing diameter:	2"	Time/	Temp	Cond	pН	Eh	D.O.	Turb.
Total well depth:	60	Volume	°C	@ 25				NTU
Static water level:	12.94	12:10	19.78	1392	11.01	68.1	1.93	
Water depth ¹ :	47.06							
Well volume (gal):	7.68							
Purge method:								
Sample Method:								
Start time:								
Stop time:								
Duration (min.):		Odor:						
Rate, gpm:		Purge appearan	nce:	× 5				
Volume purged:		Sample appearan	nce:					
Duplicate collected?		Commen			for	10 +	mine	tes
Sampled by:	AOK	Collecte	& Sample	le jus	t bel	ow Wi	nter to	ble.
Others present:	SMH	¥		Well Co	ndition			
Analysis:	VOC	filtered me	etal 1	ml filter	in-line f	ilter	others:	
MW:gw monitoring	g well WS:wa	iter supply	well SW	:surface v	water SI	E:sedime	ent other	r:

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

Client Name:	City of Roche	ester						
Project Name:	CRC		Proje	ect Numb	er:			
Location: MW-1	9		Date	:		12/1	4/15	
Station:			Sam	ple time:		(20		
Casing diameter:	2"	Time/	Temp	Cond	pН	Eh	D.O.	Turb.
Total well depth:	20	Volume	°C	@ 25				NTU
Static water level:	13.10		17.99	7173	6.47	69.8	2.48	
Water depth ¹ :	6.9							
Well volume (gal):	1.13							
Purge method:								
Sample Method:								
Start time:								
Stop time:								
Duration (min.): Odor:								
Rate, gpm:		Purge appearan	ce:					
Volume purged:	1.0	Sample appearan	.ce:	cl	ondy			
Duplicate collected?	No	Commen	its:	volu	,	10.		
Sampled by:	ADU		[~	Volu	MC C	, ,		
Others present:	SMH	1		Well Co	ndition			
Analysis:	VOC :	filtered me	tal r	nl filter	in-line fi	lter	others:	
MW:gw monitoring	well WS:wa	ter supply	well SW	surface v	vater SE	E:sedime	nt other	:

Client Name:	City of Roche	ester						
Project Name:	CRC		Proj	ect Numb	er:			
Location: MW-2	20		Date	<b>:</b> :	12	-114/1	5	
Station:			Sam	ple time:		3:35		
				T				
Casing diameter:	2"	Time/	Temp	Cond	pН	Eh	D.O.	Turb.
Total well depth:	16.7	Volume	°C	@ 25				NTU
Static water level:	12.41	13:35	19.38	1006	6.93	137.3	3.66	
Water depth ¹ :	4.29							
Well volume (gal):	0.70							
Purge method:								
Sample Method:								
Start time:								
Stop time:								
Duration (min.):		Odor:						
Rate, gpm:		Purge appearance	ce:					
Volume purged:	3/4 gal	Sample appearance	ce:	C	loudy	po	N	
Duplicate collected?	No	Commen		ŧ	ā			
Sampled by:	AOK			V d &	re du	7		
Others present:	SMR			Well Co	ndition			
Analysis:	VOC	filtered met	tal 1	nl filter	in-line fi	ilter (	others:	
MW:gw monitoring	well WS:wa	ter supply	well SW	:surface v	vater SE	E:sedime	nt other	:

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

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

·	. 1 1
CLIENT NAME: CITY OF ROCHESTER	DATE: 1/11/16
PROJECT ID: CRC	TIME: 9:25
PROJECT NAME: MN BIO BUSINESS CENTER	RECORDED BY: ADK & SMR
TROCEST TARIE.	THE STATE OF STATE
2009 SYSTEM STARTUP INFORMATION	
Startup Date: 6/29/2009 MS Discharge Totalizer: 68	Sump Discharge Totalizer: 200
Startup Date. 0/29/2009 WIS Discharge Totalizer. 00	Sump Discharge Totalizer. 200
NOTES - LEAVE VACUUM RELIEF VALVE SELECTOR SWITC	H IN OFF POSITION
LEAVE AIR STRIPPER SELECTOR SWITCHES IN AL	
LEAVE AIR STRIPPER SELECTOR SWITCHES IN AC	TO FOSITION
CURRENT ORERATING MELL.	STATIC WATER LEVELS
CURRENT OPERATING WELL:	
DPE WELL BLEED VALVE % OPEN:	The state of the s
DPE PUMP BLEED VALVE % OPEN:	Clean to Depth Water
DREY 1/12/16 2:10	Dirty below below
ANALOG PANEL READINGS	Ranking TOC (FT) TOC (FT)
DPE PUMP AIR FLOW (SCFM): 46.7	MW-14 3 17.5 //.60
DPE WELL VACUUM (IN. HG): 18.84	MW-15 4 18 (3.8)
DPE PUMP INLET VACUUM (IN. HG): 19.87	MW-16 10 18 /1.99
DPE PUMP OUTLET PRESSURE (PSI): 0,09	MW-17 7 25 /2.25
DPE PUMP OUTLET TEMP (DEG. F): 750,6	MW-18 6 60 12. 64
MS PUMP WATER FLOW (GPM): 0.81 -> 4.73	MW-19 1 20 3.63
- CAN	MW-20 8 16.7 /2.56
TOTAL PANEL READINGS	DPE-1 15 21.9 15.79
DPE VACUUM PUMP (HRS): 2859	DPE-2 13 20.5   4 9
MS PUMP (HRS): 2260	DPE-3 14 17.1 15.29
MS VACUUM VALVE (HRS): (693	DPE-4 12 19.3 15.17
AIR STRIPPER BLOWER (HRS): 13367	DPE-5 9 18.1 /6.//
AIR STRIPPER PUMP (HRS): 8 54	DPE-6 5 19.5 14.67
DPE AIR FLOW (SCF): 11088000	DPE-7 2 22.2 15.85
MS PUMP WATER FLOW (GAL): 1993342	DPE-8 11 17.5 15.68
SUMP PUMP WATER FLOW (GAL): (6/0	Sump <b>ES</b> 1 7.74 (g. 8)
	0000471110114475045151
FIELD MEASUREMENTS	OPERATING WATER LEVELS
DPE WELL CASING VACUUM (MM HG): 245 in H20 = 457.28 mm Hz	DPE-1
PRE-MANIFOLD VACUUM (IN. HG): Granze broke	DPE-2
DPE WELL (PRE-MS-1) VACUUM (IN.HG): 18,5	DPE-3
POST-MS-1 VACUUM (IN. HG): 18.5	DPE-4
POST-MS-2 VACUUM (IN. HG): 17.5	DPE-5
DPE PUMP AIR FLOW (SCFM): 50	DPE-6
DPE EXHAUST PID CONC. (PPM): 152.5	DPE-7
DPE PUMP OUTLET PRESSURE (IN. H2O)):	DPE-8
DPE PUMP OUTLET TEMP (DEG. F): 230	
	SUMP ROOM PID:
MS PUMP WATER FLOWRATE (WHILE PUMPING) (GPM): 4.40	
MS PUMP WATER PRESSURE (WHILE PUMPING) (PSI): 13 role	BASEMENT PID READINGS:
MS PUMP FLOW TOTALIZER READING (GAL): 407700	J
	COMMENTS/MAINTENANCE:
AS EXHAUST PRESSURE (IN. H20): 8,0	
AS DISCHARGE PUMP PRESSURE (WHILE PUMPING) (PSI): 18	
AS BLOWER PRESSURE (IN. H20):	
AS EXHAUST PID (PPM): 0,0	
*	
ELEVATOR DRAIN TILE SUMP FLOW TOTALIZER (GAL): 525	

Client Name:	City of Roche	ester							
Project Name:	CRC	RC Project Number:							
Location: Multip	ole Location		Date	:		1/11/10	Q		
Station:			Sam	ple time:		1			
Multiple Sampling Log:		Time/ Volume	Temp °C	Cond @ 25	рН	Eh	D.O.		
Location: DPE-1:		11:35	18.52	2309	7 54	292,7	3,56	,	
DPE-1:		11:25	18,22	3074		279.1	3.88		
DPE-3:		11:30	18.07	7290		286.7	_		
DPE-4:		11:20	18:61	3878	2065		5.28		
DPE-5:		10:55	17.95	3497	7.88	179.5	5.81		
DPE-6:		11:10	18.38	1486	7.58	1930	3,53		
DPE-7:		10:05	20.17	1845	7.22	191.1	4.51		
DPE-8:		भगड	18.17	7311	7.35	239.3	5.57	•	
Rate, gpm:									
Volume purged:									
Duplicate collected?									
Sampled by:	ADK					_			
Others present:	SMR			Well Co	ndition				
Analysis:	VOC	filtered me	tal r	nl filter	in-line fi	lter	others:		
MW:gw monitoring	g well WS:wa	iter supply	well SW	:surface v	vater SE	E:sedime	nt other	•	

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

# Landmark Environmental, LLC

# **Field Information Data Sheet**

Client Name:	City of Roche	ester							
Project Name:	CRC	RC Project Number:							
Location: MW-1	14	Date: Date:							
Station:			Sam	ple time:		10:15			
Casing diameter:	2"	Time/	Temp	Cond	рН	Eh	D.O.	Turb.	
Total well depth:	17.5	Volume	°C	@ 25				NTU	
Static water level:	11.60	10:15	19.51	1313	7.34	3.9	3.94		
Water depth ¹ :	5.90								
Well volume (gal):	0.96								
Purge method:									
Sample Method:									
Start time:									
Stop time:									
Duration (min.):		Odor:							
Rate, gpm:		Purge appearan	ce:	Cl	ndy	bro.	<b>~</b> ~		
Volume purged:	1.0	Sample appearan	ce:		/				
Duplicate collected?	No	Commen	its:	Volu					
Sampled by:	AUK		/	Volu	me				
Others present:	SMR			Well Co	ndition				
Analysis:	VOC	filtered me	tal r	nl filter	in-line fi	ilter	others:		
MW:gw monitoring	gwell WS:wa	ter supply	well SW	surface v	vater SE	E:sedime	ent other	:	

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

Client Name:	City of Roche	ester						
Project Name:	CRC Project Number:							
Location: MW-1	15		Date	<b>:</b> :		11/20	, ( (4	
Station:			Sam	ple time:				
Casing diameter:	2"	Time/	Temp	Cond	pН	Eh	D.O.	Turb.
Total well depth:	18	Volume	°C	@ 25				NTU
Static water level:	13.81	10:20	20.27	3590	7.46	101, 8	3,65	
Water depth ¹ :	4.19							
Well volume (gal):	0.68							
Purge method:								
Sample Method:								
Start time:								
Stop time:								
Duration (min.):		Odor:						
Rate, gpm:		Purge appearan	ice:	C	lear			
Volume purged:	1. Bgal	Sample appearan	ice:					
Duplicate collected?	No	Commen	nts:	Volum				
Sampled by:	ADIC		/	Volum	e			
Others present:	SMR	1		Well Co	ndition			
Analysis:	VOC	filtered me	etal 1	nl filter	in-line fi	lter	others:	
MW:gw monitoring	well WS:wa	ter supply	well SW	:surface v	vater SE	E:sedime	ent other	:

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

Client Name:	city of Roche	ester						
Project Name: CRC Project Number: CRC-14								
Location: MW-1	16		Date	<b>:</b>	Aug	ust 22,	2014	1/11/16
Station:			Sam	ple time:				1 \
		r		T				
Casing diameter:	2"	Time/	Temp	Cond	рН	Eh	D.O.	Turb.
Total well depth:	18	Volume	°C	@ 25				NTU
Static water level:	11.99	10:40	19.70	2876	7.28	83.5	3.19	
Water depth ¹ :	6-01							
Well volume (gal):	0.98							
Purge method:								
Sample Method:								
Start time:								
Stop time:								
Duration (min.):		Odor:						
Rate, gpm:		Purge appearan	nce:	Clos	ndy lear	brow	1	
Volume purged:	1,5941	Sample appearan	ice:	C	lear			
Duplicate collected?	NO AOU	Commen	nts:					
Sampled by:	AUR							
Others present:	SMR			Well Co	ondition			
Analysis:	VOC	filtered me	etal 1	ml filter	in-line f	ilter	others:	
MW:gw monitoring	g well WS:wa	iter supply	well SV	V:surface	water SI	E:sedime	ent other	:

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

## Landmark Environmental, LLC **Field Information Data Sheet**

Client Name:	City of Roche	ster						
Project Name:	CRC Project Number:							
Location: MW-17 Date: $ / / / $								
Station: 25	;	×	Sam	ple time:		( '		
Casing diameter:	2"	Time/	Temp	Cond	pН	Eh	D.O.	Turb.

Casing diameter:	2"	Time/ Volume	Temp °C	Cond @ 25	pН	Eh	D.O.	Turb. NTU
Total well depth:	25							
Static water level:	12.25	10:35	19,59	1817	7.67	-89.3	0.73	
Water depth ¹ :	12.95							
Well volume (gal):	2.08							
Purge method:								
Sample Method:								
Start time:								
Stop time:								
Duration (min.):		Odor:						
Rate, gpm:		Purge appearan	.ce:					
Volume purged:	2 201	Sample appearan	ce:	C	loudy	,		
Duplicate collected?	No	Commen		2	/ /		100 C	
Sampled by:	AOK		1	rimped for	5 m	nute	5	1
Others present:	SMR			Well Co	ondition			
Analysis:	VOC :	filtered me	tal r	nl filter	in-line fi	lter	others:	
MW:gw monitoring  Measurements are								:

# Landmark Environmental, LLC

Client Name:	City of Roche	ester							
Project Name:	CRC	RC Project Number:							
Location: MW-1	18		Date	<b>:</b> :		1/11/1	6		
Station:			Sam	ple time:					
Casing diameter:	2"	Time/	Temp	Cond	pН	Eh	D.O.	Turb.	
Total well depth:	60	Volume	°C	@ 25				NTU	
Static water level:	12.64	10:27	19.64	2180	7.37	-83.8	2.08		
Water depth ¹ :	47.36								
Well volume (gal):	7.73								
Purge method:									
Sample Method:									
Start time:									
Stop time:									
Duration (min.):		Odor:							
Rate, gpm:		Purge appearan						(a) * 1	
Volume purged:		Sample appearan	ce:	Clo	nely				
Duplicate collected?	No	Commen	its: Ran	Clo	for	15 m	inut	4	
Sampled by:	AOK								
Others present:	SMR	•		Well Co	ndition				
Analysis:	VOC	filtered me	tal r	nl filter	in-line f	ilter	others:		
MW:gw monitoring	g well WS:wa	ter supply	well SW	:surface v	vater SI	E:sedime	nt other	r:	

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

Client Name:	City of Roche	ester							
Project Name:	CRC	RC Project Number:							
Location: MW-	19		Date	<b>:</b> :		111/1	4		
Station:			Sam	ple time:		11/1			
			r						
Casing diameter:	2"	Time/	Temp	Cond	рН	Eh	D.O.	Turb.	
Total well depth:	20	Volume	°C	@ 25			. *	NTU	
Static water level:	13.63		17.87	6853	6.53	82.7	2.94		
Water depth ¹ :	6.37								
Well volume (gal):	1.04								
Purge method:	,								
Sample Method:									
Start time:									
Stop time:									
Duration (min.):		Odor:							
Rate, gpm:		Purge appearan	ce:	C/6	ady				
Volume purged:	1.0	Sample appearan	ice:		/				
Duplicate collected?	No	Commen	ats:	/ Vol	/				
Sampled by:	AOK		,	/ V*/S	ine	dy			
Others present:	SMR			Well Co	ndition				
Analysis:	VOC	filtered me	tal r	nl filter	in-line f	ilter	others:		
MW:gw monitoring	well WS:wa	ter supply	well SW	:surface v	vater SE	E:sedime	nt other	:	

# Landmark Environmental, LLC

# **Field Information Data Sheet**

Client Name: _	City of Roche	ster								
Project Name:	CRC	RC Project Number:								
Location: MW-	20		Date	:		1/11/	16			
Station:			Sam	Sample time:						
Casing diameter:	2"	Time/	Temp	Cond	pН	Eh	D.O.	Turb.		
Total well depth:	16.7	Volume	°C	@ 25				NTU		
Static water level:	12.54	10:45	19.23	9861	7.24	143.2	4.12			
Water depth ¹ :	4.14									
Well volume (gal):	0.68	=								
Purge method:										
Sample Method:										
Start time:										
Stop time:										
Duration (min.):		Odor:								
Rate, gpm:		Purge appearan	ice:	cl	only	bro	wn			
Volume purged:	1.5 gal	Sample appearan	ice:	±	/					
Duplicate collected?	No	Commen								
Sampled by:	ADK		/	Volum	e					
Others present:	SMR			Well Co	ndition					
Analysis:	VOC	filtered me	tal r	nl filter	in-line fi	lter	others:			
MW:gw monitorin	g well WS:wa	ter supply	well SW	surface v	vater SE	E:sedime	nt other			

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	DATE:	2/2	3/16	
PROJECT ID: CRC	TIME:	4/2	, - /10	<del>-</del>
PROJECT NAME: MN BIO BUSINESS CENTER	RECORD	FD BY		
THOUGH WANE.	TEGGILD			
2009 SYSTEM STARTUP INFORMATION				
Startup Date: 6/29/2009 MS Discharge Totalizer: 68	Sump Dis	charge To	talizer: 20	0
		**************************************		
NOTES - LEAVE VACUUM RELIEF VALVE SELECTOR SWITE	CH IN OFF	POSITION		
LEAVE AIR STRIPPER SELECTOR SWITCHES IN A	UTO POSIT	ΓΙΟΝ		
DPE-5 2/24/10 3:	10			
CURRENT OPERATING WELL:	S ⁻	TATIC WA	TER LEVE	ELS
DPE WELL BLEED VALVE % OPEN:			Well	Depth to
DPE PUMP BLEED VALVE % OPEN:		Clean to	Depth	Water
		Dirty	below	below
ANALOG PANEL READINGS		•	TOC (FT)	TOC (FT)
DPE PUMP AIR FLOW (SCFM): 76.6	MW-14	3	17.5	10.97
DPE WELL VACUUM (IN. HG): \5,55	MW-15	4	18	13-29 1
DPE PUMP INLET VACUUM (IN. HG): 14.0%	MW-16	10	18	11.27
DPE PUMP OUTLET PRESSURE (PSI): 0,05	MW-17	7	25	11.92 V
DPE PUMP OUTLET TEMP (DEG. F): 197.90	MW-18	6	60	12,20 W
MS PUMP WATER FLOW (GPM): 4g. 00 (DRE-6)	MW-19	1	20	13-10 2
MICT CHILL WATER LOW (CF M). (2.20 ( ))	MW-20	8	16.7	12.55
TOTAL PANEL READINGS	DPE-1	15	21.9	13.98
DPE VACUUM PUMP (HRS): 19503	DPE-2	13	20.5	14.29 V
MS PUMP (HRS): 2 34 7	DPE-3	14	17.1	14.40 V
MS VACUUM VALVE (HRS): 643	DPE-4	12	19.3	14.49
AIR STRIPPER BLOWER (HRS): 14040	DPE-5	9	18.1	
AIR STRIPPER PUMP (HRS): 643	DPE-6	5	19.5	14,30 L
	DPE-7	2	22.2	15.21
DPE AIR FLOW (SCF): 114747000 MS PUMP WATER FLOW (GAL): 2232374	DPE-8	11	17.5	15.08
		1	7.74	1-00 0
SUMP PUMP WATER FLOW (GAL): 610	Sump		1.14	
FIELD MEASUREMENTS ( in Has	ODE	DATING	WATER LE	EVELS
	DPE-1		AAVI EIV EI	-VLLO
DPE WELL CASING VACUUM (MM-HG): 200 PRE-MANIFOLD VACUUM (IN. HG): 15,75	DPE-1			
	DPE-3		~	
	DPE-3 DPE-4			
POST-MS-1 VACUUM (IN. HG): 15.5 POST-MS-2 VACUUM (IN. HG): 5.5	DPE-4 DPE-5			
	DPE-6			
, ,	DPE-7			
DPE EXHAUST PID CONC. (PPM): 0.0  DPE PUMP OUTLET PRESSURE (IN. H2O)): 7	DPE-8			
	DFE-0			·
DPE PUMP OUTLET TEMP (DEG. F): 195	S CHMD D	OOM DID.		
MS DUMP WATER ELOWRATE WALL E DUMPINO (CRA), COCK	SUMP R	OOM FID.		
MS PUMP WATER FLOWRATE (WHILE PUMPING) (GPM): 904 TOKE	DAGENAL	THE DID D	EADIMOO	_
MS PUMP WATER PRESSURE (WHILE PUMPING) (PSI):	BASEME	א עוץ וא:	EADINGS	
MS PUMP FLOW TOTALIZER READING (GAL): 409210	0011115	NITOMAN	ITENIANIO	<b>-</b> .
AS EXHAUST PRESSURE (IN. H20): B (DPG-2)	COMME	N I S/MAIN	ITENANCE	
				·····
AS DISCHARGE PUMP PRESSURE (WHILE PUMPING) (PSI): 16				
AS BLOWER PRESSURE (IN. H20): 2 (PPE-1)				
AS EXHAUST PID (PPM): (), ()				
	hand the second	w		
ELEVATOR DRAIN TILE SUMP FLOW TOTALIZER (GAL):				

Client Name:	City of Roche	ester									
Project Name:	CRC	CRC Project Number:									
Location: Mult	iple Location	, , , , , , , , , , , , , , , , , , , ,	Date: 2/27/1/4								
Station:			Sam	ple time:							
		- At-	,			T					
Multiple Sampling Log:		Time/ Volume	Temp	-Cond @25	pН	Eh	D.O.				
Location:											
DPE-1:	2/23/10	5:10									
DPE-2:	423/16	4:40			( volu	tu.		Cloudy			
DPE-3:	2/23/16	4:55			lvolv	Michigan		cloudy			
DPE-4:	2/23/16	4:25			186	~		Clouds			
DPE-5:	2/23/16	3:35			Ivolu	~		elear			
DPE-6;	42/16	3.05			Ivalur	- 6		clear			
DPE-7:	2/23/14	1:15			1 vol	ne		Clear			
DPE-8:	2/23/10	4.00			1000	~e		Cloudy			
Rate, gpm:											
Volume purged:											
Duplicate collected?	No					٠					
Sampled by:	The										
Others present:	Cle			Well Co	ondition						
Analysis:	VOC	filtered me	etal 1	ml filter	in-line f	ilter	others:				
MW:gw monitoring	ng well WS:wa	ter supply	well SV	V:surface	water SI	E:sedim	nent othe	r:			

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

## Landmark Environmental, LLC

# **Field Information Data Sheet**

Client Name:	City of Roche	ester							
Project Name:	CRC Project Number:								
Location: MW-14			Date	e:		2/23/16			
Station:			Sam	ple time:	11,40				
					-		T	I	
Casing diameter:	2"	Time/ Volume	Temp °C	Cond @ 25	pН	Eh	D.O.	Turb. NTU	
Total well depth:	17.5								
Static water level:	10.97								
Water depth ¹ :	6.53								
Well volume (gal):	1								
Purge method:									
Sample Method:									
Start time:									
Stop time:									
Duration (min.):		Odor:							
Rate, gpm:		Purge appearan	ce:	brown cloudy					
Volume purged:	\	Sample appearan	ce:	cloudy					
Duplicate collected?	No	Commen	its:						
Sampled by:	No SMP CRE	Volume							
Others present:	CRE			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.

Chent Name:	11y of Roche	ester							
Project Name:	CRC	Project Number:							
Location: MW-15			Date:			2/23/16			
Station:		Sample time:				2/23/14 1:55			
			,					· · · · · · · · · · · · · · · · · · ·	
Casing diameter:	2"	Time/	Temp	Cond	pН	Eh	D.O.	Turb.	
Total well depth:	18	Volume	°C	@ 25				NTU	
Static water level:	13,29								
Water depth ¹ :	4.7/					ļ.			
Well volume (gal):	0,9								
Purge method:									
Sample Method:									
Start time:									
Stop time:									
Duration (min.):		Odor:							
Rate, gpm:		Purge appearan	nce:	Clo-dr					
Volume purged:	1.	Sample appearan	nce:	Clordy clordy					
Duplicate collected?	No	Commen	ments:						
Sampled by:	Zho No								
Others present:	CRE	CLE			ondition				
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.

Client Name:	City of Roche	ester			•					
Project Name:	CRC	RC			Project Number:			CRC-14		
Location: MW-	16		Dat	Date: August 22, 2			2014-	2/23/14		
Station:			San	ample time: 3:45						
Casing diameter:	2"	Time/	Temp	Cond	рН	Eh	D.O.	Turb.		
Total well depth:	18	Volume	°C	@ 25				NTU		
Static water level:	11.27									
Water depth ¹ :	6.73		***							
Well volume (gal):	1.1									
Purge method:										
Sample Method:										
Start time:										
Stop time:										
Duration (min.):		Odor:								
Rate, gpm:		Purge appearance	ce:	С	Coudy					
Volume purged:	١,،	Sample appearance	ce:	C	loudy					
Duplicate collected?	No	Commen		,						
Sampled by:	SWA		( (	rolum						
Others present:	at		**	Well Co	ndition					
Analysis:	vod	filtered met	tal	ml filter	in-line f	ilter	others:			
MW:gw monitorin	g well WS:wa	ater supply	well SV	W:surface v	water SI	E:sedim	ent othe	r:		

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

## **Field Information Data Sheet**

Client Name:	City of Roch	City of Rochester								
Project Name:	CRC		Proj	Project Number:						
Location: MW-	-17		Date	Date: 2/23			9			
Station: 2	5		Sam	ple time:	5:75					
Casing diameter:	2"	Time/	Temp	Cond	рН	Eh	D.O.	Turb.		
Total well depth:	25	Volume	°C	@ 25				NTU		
Static water level:	11,92									
Water depth ¹ :	13.08									
Well volume (gal):	2.13									
Purge method:										
Sample Method:										
Start time:										
Stop time:					<u> </u>					
Duration (min.):		Odor:								
Rate, gpm:		Purge appearan	ıce:	C	Loudy					
Volume purged:		Sample appearan	ice:							
Duplicate collected?	No	Commer		a - Ger	16	ms				
Sampled by:	Shib		You for 15 mons							
Others present:	CRE			Well Co	ndition					
Analysis:	(voc)	(VOC) filtered metal ml filter in-line filter others:								
MW:gw monitorin	ng well WS:w	ater supply	well SV	V:surface v	water_S	E:sedim	ent othe	r:		

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

Client Name: _C	City of Rochester								
Project Name:	CRC		Proje	Project Number: 4					
Location: MW-1	.8		Date	Date:					
Station:			Sam	Sample time: 6:00					
	I		ı			1	Г		
Casing diameter:	2"		Temp	Cond	pН	Eh	D.O.	Turb.	
Total well depth:	60	Volume	°C	@ 25				NTU	
Static water level:	12.20				:				
Water depth ¹ :	47.8								
Well volume (gal):	7.8								
Purge method:									
Sample Method:									
Start time:									
Stop time:									
Duration (min.):		Odor:		1					
Rate, gpm:		Purge appearanc	e:	cloudy					
Volume purged:		Sample appearanc	e:						
Duplicate collected?	1/10	Comment	s:	Av	15 mm	r			
Sampled by:	2ho	ran for 15 mins							
Others present:	CRE	1		Well Co	ondition			•	
Analysis:	(voc)	(VOC) filtered metal ml filter in-line filter others:							
MW:gw monitoring	g well WS:wa	ter supply v	vell SW	surface	water SI	E:sedime	ent other	r <b>:</b>	

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

Client Name:	City of Roche	aty of Rochester								
Project Name:	CRC		Proj	ect Numb	er:					
Location: MW-	19		Date	Date:			2/23/10			
Station:			Sam	Sample time: 12 50						
							1	1		
Casing diameter:	2"	Time/	Temp	Cond	pН	Eh	D.O.	Turb.		
Total well depth:	20	Volume	°C	@ 25				NTU		
Static water level:	13-10									
Water depth ¹ :	6.9									
Well volume (gal):	1,1									
Purge method:										
Sample Method:										
Start time:										
Stop time:										
Duration (min.):		Odor:		<del></del>		a.				
Rate, gpm:		Purge appearan	ice:	Cloudy						
Volume purged:	1.5	Sample appearan	ice:		Cloudy					
Duplicate collected?	No	Commen	nts:	. 1	( )					
Sampled by:	SMI		1,3 volume							
Others present:	CRE	·		Well Co	ondition					
Analysis:	VOC.									
MW:gw monitorin	g well WS:wa	ter supply	well SV	V:surface v	water SI	E:sedim	ent othe	r:		

Client Name:	City of Roche	ity of Rochester								
Project Name:	CRC	RC Project Number:								
Location: MW-	20		Date	Date:			2/23/14			
Station:			San	Sample time: 3:20						
Casing diameter:	2"	Time/	Temp	Cond	pН	Eh	D.O.	Turb.		
Total well depth:	16.7	Volume	°C	@ 25				NTU		
Static water level:	12.55									
Water depth ¹ :	4.15									
Well volume (gal):	0.7									
Purge method:										
Sample Method:										
Start time:										
Stop time:										
Duration (min.):		Odor:								
Rate, gpm:		Purge appearan	ice:	Drown & cloudy						
Volume purged:		Sample appearan	ice:	b	rnn t	dovd	Y			
Duplicate collected?	No	Commen	nts:							
Sampled by:	No		Volume							
Others present:	CRE			Well Condition						
Analysis:	(VOC)	(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	DATE: 3/30/16				
PROJECT ID: CRC	TIME: 9:09 PM				
PROJECT NAME: MN BIO BUSINESS CENTER	RECORD	ED BY: †	IDK SM	. [2	
2009 SYSTEM STARTUP INFORMATION					
	Sump Dis	charge To	talizer: 200	)	
Me Bloomings Formings	oump bio	onango no	toning of the		
NOTES - LEAVE VACUUM RELIEF VALVE SELECTOR SWITCH LEAVE AIR STRIPPER SELECTOR SWITCHES IN AU					
LEAVE AIR STRIFFER SELECTOR SWITCHES IN AU	10 10311	ION			
CURRENT OPERATING WELL:	s [.]	TATIC WA	TER LEVE	LS	
DPE WELL BLEED VALVE % OPEN:			Well	Depth to	
DPE PUMP BLEED VALVE % OPEN:		Clean to	Depth	Water	
ANALOG DANEL PEARINGS DPE -3 2:46		Dirty	below	below	
ANALOG PANEL READINGS		•	TOC (FT)		
DPE PUMP AIR FLOW (SCFM): 52.4	MW-14	3	17.5	100 (11)	
2, 2, 0, 1, 1, 1, 1, 2, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,	MW-15	4	18		
DPE WELL VACUUM (IN. HG): 19.95					
DPE PUMP INLET VACUUM (IN. HG): 20.01	MW-16	10	18		
DPE PUMP OUTLET PRESSURE (PSI): -0-04 0.04	MW-17	7	25		
DPE PUMP OUTLET TEMP (DEG. F): 256-	MW-18	6	60		
MS PUMP WATER FLOW (GPM): 48.00	MW-19 '		20		
•	MW-20	8	16.7		
TOTAL PANEL READINGS	DPE-1	15	21.9		
DPE VACUUM PUMP (HRS): 3025は	DPE-2	13	20.5		
MS PUMP (HRS): 2436	DPE-3	14	17.1		
MS VÁCUUM VALVE (HRS): 6 13	DPE-4	12	19.3		
AIR STRIPPER BLOWER (HRS): 14 59 9	DPE-5	9	18.1		
AIR STRIPPER PUMP (HRS): 924	DPE-6	5	19.5		
DPE AIR FLOW (SCF): 117920000	DPE-7	2	22.2		
MS PUMP WATER FLOW (GAL): 2409395	DPE-8	11	17.5		
SUMP PUMP WATER FLOW (GAL): 410	Sump	1	7.74		
FIELD MEASUREMENTS	OPF	RATING	WATER LE	VFLS	
DPE WELL CASING VACUUM (MM HG): 225 in. H20	DPE-1		.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		
PRE-MANIFOLD VACUUM (IN. HG):	DPE-2				
DPE WELL (PRE-MS-1) VACUUM (IN.HG):	DPE-3				
	DPE-4				
	DPE-5				
	DPE-6				
	DPE-7				
	DPE-8				
	DPE-0				
DPE PUMP OUTLET TEMP (DEG. F):	CHMDD	OOM DID.			
THE BUILD WATER ELONDATE AND THE BUILDING VORING	SUMP R	OOM PID:			
MS PUMP WATER FLOWRATE (WHILE PUMPING) (GPM): Broken					
, , , , , , , , , , , , , , , , , , ,	BASEME	NT PID R	EADINGS:		
MS PUMP FLOW TOTALIZER READING (GAL): 408366					
40 EXHALIOT PRECOURE (IN 190): 12 17	COMME	NTS/MAIN	ITENANCE	1	
AS EXHAUST PRESSURE (IN. H20): \3. \(\begin{array}{c}\)					
AS DISCHARGE PUMP PRESSURE (WHILE PUMPING) (PSI):	) <u>.</u> U			· · -	
AS BLOWER PRESSURE (IN. H20):					
AS EXHAUST PID (PPM): 0.0					
ELEVATOR DRAIN THE SLIMP ELOW TOTALIZER (GAL):	******				

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

**CLIENT NAME:** CITY OF ROCHESTER PROJECT ID: CRC

PROJECT NAME: MN BIO BUSINESS CENTER **RECORDED BY:** ADK SMR

	PID READINGS	DPE EXHAUST FLOW RATE	DPE PUMP INLET VACUUM √√2 A^\o1	WELL CASING VACUUMS	
DPE-1	<b>多格31.5</b>	5 <b>S</b>	19.64	240	
DPE-2	16.6	40	19.34	235	
DPE-3	19.0	55	9.89	225	
DPE-4	23.7	50	20.41	250	
DPE-5	10.3	75	16.72	210	
DPE-6	5,3	70	17.43	215	
DPE-7	4.3.5	70	XVII. 16.6	2 200	
DPE-8	2.7	90	15.07	200	

Inffluent 15:30 Effluent 16:00

FC 4224

Start 20.2 3:15 -29

Stop

Stop

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

	,	1	1.			
CLIENT NAME: CITY OF ROCHESTER	DATE:	4/20	/16			
PROJECT ID: CRC	TIME: 971		t			
PROJECT NAME: MN BIO BUSINESS CENTER	RECORDE	ED BY:	ADK +	CJT		
		·				
2009 SYSTEM STARTUP INFORMATION						
Startup Date: 6/29/2009 MS Discharge Totalizer: 68	Sump Disc	harge To	talizer: 200	)		
		X				
NOTES - LEAVE VACUUM RELIEF VALVE SELECTOR SWITCH	H IN OFF F	POSITION				
LEAVE AIR STRIPPER SELECTOR SWITCHES IN AU	JTO POSIT	ION				
CURRENT OPERATING WELL:	STATIC WATER LEVELS					
DPE WELL BLEED VALVE % OPEN:			Well	Depth to		
DPE PUMP BLEED VALVE % OPEN:		Clean to	Depth	Water		
ANALOG PANEL READINGS		Dirty	below	below		
		Ranking	TOC (FT)	TOC (FT)		
DPE PUMP AIR FLOW (SCFM): 75,5	MW-14	3	17.5	10.89		
DPE WELL VACUUM (IN. HG): 16.17	MW-15	4	18	13.64		
DPE PUMP INLET VACUUM (IN. HG): 16.67	MW-16	10	18	11.28		
DPE PUMP OUTLET PRESSURE (PSI): 10.10	MW-17	7	25	11.44		
DPE PUMP OUTLET TEMP (DEG. F): 124	MW-18	6	60	11. lat		
MS PUMP WATER FLOW (GPM):	MW-19	1	20	12.77		
VU	MW-20	8	16.7	11.97		
TOTAL PANEL READINGS	DPE-1	15	21.9	14.15		
DPE VACUUM PUMP (HRS): 30, 758	DPE-2	13	20.5	14.34		
MS PUMP (HRS): 2,5\5	DPE-3	14	17.1	14.72		
MS VACUUM VALVE (HRS): 693	_DPE-4	12	19.3	14.58		
AIR STRIPPER BLOWER (HRS): 14,992	DPE-5	9	18.1	15.76		
AIR STRIPPER PUMP (HRS):	DPE-6	5	19.5	13,93		
DPE AIR FLOW (SCF): 19987,000	DPE-7	2	22.2	14.82		
MS PUMP WATER FLOW (GAL): 2710,043	DPE-8	11	17.5	14.45		
SUMP PUMP WATER FLOW (GAL): 610	Sump	1	7.74			
FIELD MEAGLIDEMENTO						
PE WELL CASING VACUUM (MM HG): 205 "Hz"		RATING	WATER LE	VELS		
DPE WELL CASING VACUUM (MM HG): 2.05 Hz ⁰	DPE-1					
PRE-MANIFOLD VACUUM (IN. HG): 17.5 "Ho  DPE WELL (PRE-MS-1) VACUUM (IN.HG):	DPE-2					
	DPE-3					
	DPE-4 DPE-5	AU				
	DPE-6	*				
DPE PUMP AIR FLOW (SCFM): 75  DPE EXHAUST PID CONC. (PPM): 0.1	DPE-7					
DPE PUMP OUTLET PRESSURE (IN. H2O)): MF	DPE-8	<u>.</u>	<del></del>			
DPE PUMP OUTLET TEMP (DEG. F): 220° F	DI L-0		-,			
DIETOWN COTEET TEWN (DEC.T).	SUMP RO	OM PID-				
MS PUMP WATER FLOWRATE (WHILE PUMPING) (GPM):	John Ite	ON TID.	<del> </del>			
MS PUMP WATER PRESSURE (WHILE PUMPING) (PSI):	RASEME	NT DID B	EADINGS:			
MS PUMP FLOW TOTALIZER READING (GAL): 408480	DAGLIVIE	NIFIDIX	LADINGS.			
MO FOME LOW TOTALIZER READING (GAL). 900 9.00	COMMEN	ITS/MAIN	TENANCE	•		
AS EXHAUST PRESSURE (IN. H20): 8.5	COMMEN	I SHWAIN	LIVANOE	•		
AS DISCHARGE PUMP PRESSURE (WHILE PUMPING) (PSI): 18.0			<u> </u>			
AS DISCHARGE PUMP PRESSURE (WHILE PUMPING) (PSI): 18.0  AS BLOWER PRESSURE (IN. H20): 15.5  AS EXHAUST PID (PPM):			11-1			
AS EXHAUST PID (PPM):			-			
7.0 EXT. 7.001 1 ID (1 1 W).						
ELEVATOR DRAIN THE SHIMP ELOW TOTALIZER (GAL):			, , , , , , , , , , , , , , , , , , ,			

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

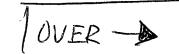
**CLIENT NAME:** CITY OF ROCHESTER DATE: PROJECT ID: CRC TIME: RECORDED BY: ADIC & CJ PROJECT NAME: MN BIO BUSINESS CENTER DPE DPE PID **EXHAUST PUMP INLET WELL CASING READINGS FLOW RATE VACUUM VACUUMS** 50 250 21.8 20.00 DPE-1 245 55 19.70 DPE-2 230 37.4 55 20.20 DPE-3 19.6 250 20.76 50 DPE-4 16.67 205 DPE-5 0.5 17.61 215 DPE-6 225 16-69 0.0 DPE-7 95 205

15.42

DPE-8

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

CLIENT NAME: CITY OF ROCHESTER	DATE: 5/17/16	
PROJECT ID: CRC	TIME: /0200	
PROJECT NAME: MN BIO BUSINESS CENTER	RECORDED BY: ADK & Se	MD
PROJECT NAME. MIN DIO BOSINESS CENTER	RECORDED B1. /TVF & 3	
2009 SYSTEM STARTUP INFORMATION		
Startup Date: 6/29/2009 MS Discharge Totalizer: 68	Sump Discharge Totalizer: 200	١.
otalitap Date. 0/29/2009 Milo Discharge Totalizer. 00	Cump Discharge Totalizer. 200	
NOTES - LEAVE VACUUM RELIEF VALVE SELECTOR SWI	CH IN OFF POSITION	
LEAVE AIR STRIPPER SELECTOR SWITCHES IN		
LEAVE AIR OTHER TER SELECTION OWN OTHER IN	101010011011	
CURRENT OPERATING WELL:	STATIC WATER LEVE	ıs
DPE WELL BLEED VALVE % OPEN:	Well	Depth to
DPE PUMP BLEED VALVE % OPEN:	Clean to Depth	Water
	Dirty below	below
ANALOG PANEL READINGS	Ranking TOC (FT)	
DPE PUMP AIR FLOW (SCFM): 46.9	MW-14 3 17.5	10.4
DPE WELL VACUUM (IN. HG): 19,58	✓ MW-15 4 18	(3,04
DPE PUMP INLET VACUUM (IN. HG): 20,64	MW-16 10 18	1138
DPE PUMP OUTLET PRESSURE (PSI): 0.04	MW-17 7 25	11.31
DPE PUMP OUTLET TEMP (DEG. F): 249.6		11,26
MS PUMP WATER FLOW (GPM): 48.00	MW-19 1 20	12,50
MOTOWN WATER LOW (OF M). 40.00	MW-20 8 16.7	11,51
TOTAL PANEL READINGS	DPE-1 15 21.9	13.80
DPE VACUUM PUMP (HRS): 31.395	DPE-2 13 20.5	14,42
MS PUMP (HRS): 2637		14.01
MS VACUUM VALVE (HRS): 693	DPE-4 12 19.3	4.23
AIR STRIPPER BLOWER (HRS): 15,487	DPE-5 9 18.1	13.54
AIR STRIPPER PUMP (HRS): 978	DPE-6 5 19.5	14,28
DPE AIR FLOW (SCF): 17.2 (ALL AS	✓ DPE-7 2 22.2	15.87
MS PUMP WATER FLOW (GAL): My MATER FLOW (GAL): 233	✓ DPE-8 11 17.5	14,23
SUMP PUMP WATER FLOW (GAL): (610)	Sump 1 7.74	11,2
COMIT TOMIT WITH EST (CONE).	<u> </u>	
FIELD MEASUREMENTS	OPERATING WATER LE	VELS
DPE WELL CASING VACUUM (MM HG): ZZO	DPE-1	
PRE-MANIFOLD VACUUM (IN. HG): 17.5	DPE-2	
DPE WELL (PRE-MS-1) VACUUM (IN.HG):	DPE-3	
POST-MS-1 VACUUM (IN. HG): 19.5	DPE-4	
POST-MS-2 VACUUM (IN. HG): 19.5	DPE-5	-
DPE PUMP AIR FLOW (SCFM): 50	DPE-6	
DPE EXHAUST PID CONC. (PPM):	DPE-7	
DPE PUMP OUTLET PRESSURE (IN. H2O)): MF	DPE-8	
DPE PUMP OUTLET TEMP (DEG. F): 230		,
	SUMP ROOM PID:	
MS PUMP WATER FLOWRATE (WHILE PUMPING) (GPM):		
MS PUMP WATER PRESSURE (WHILE PUMPING) (PSI): 8,0	BASEMENT PID READINGS:	
MS PUMP FLOW TOTALIZER READING (GAL): 408,749 MF		AATTE
	COMMENTS/MAINTENANCE	
AS EXHAUST PRESSURE (IN. H20):		
AS DISCHARGE PUMP PRESSURE (WHILE PUMPING) (PSI): \-		:
AS BLOWER PRESSURE (IN. H20): (6,1)		
AS EXHAUST PID (PPM): 0,0		
ELEVATOR DRAIN TILE SUMP FLOW TOTALIZER (GAL): 525.7		



### 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: 5/18/16

TIME: 2215

RECORDED BY: HOLE I SMR

	PID READINGS	DPE EXHAUST FLOW RATE	DPE PUMP INLET VACUUM	WELL CASING VACUUMS	
DPE-1	8.3	50	20,45	250	
DPE-2	By 2.9	55	20.11	250	
DPE-3	14.5	50	20.69	220	
DPE-4	12.1	50	20.95	250	
DPE-5	5.2	80	16.91	215	
DPE-6	3.9	70	17.91	220	
DPE-7	2.6	80	17.07	215	
DPE-8	1.5	95	15.69	200	

 PREC	DINC	J	Fans	ON
111	200	v.	CANADA SANCE AND ASSESSMENT OF THE PERSON NAMED IN	galilla 1/141

DRE Off & Fans OW

## **Field Information Data Sheet**

Client Name:	City of Roche	ty of Rochester								
Project Name:	CRC		Proje	ect Numb	er:					
Location: Mult	tiple Location	Date:			5/17/16					
Station:	·	Sample time: 11-30								
Multiple Sampling Log:	5	Time/ Volume	Temp °C	Cond @ 25	рН	Eh	D.O.			
Location:										
DPE-1:			18.63	2257	7.29	158.3	6.55			
DPE-2:			19.62	3689	7.22	141.3	4.61			
DPE-3:			18.85	7065	6.97	165.1	5.51			
DPE-4:			19.43	3915	6.65	200.1	4.21			
DPE-5:			(8.61	3308	7.12	163.1	6.17			
DPE-6:			19.27	1563	7.14	162.5	4.95			
DPE-7:			19.93	2311	7.02	157.9	5.08	,		
DPE-8:			17-69	7234	6.88	174	6.50			
Rate, gpm:					!		•	- N		
Volume purged:										
Duplicate collected?										
Sampled by:	ADICISM	<u></u>								
Others present:				Well Co	ndition					
Analysis:	VOC	VOC filtered metal ml filter in-line filter others:								
MW:gw monitoria	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

Client Name:	City of Roche	ester										
Project Name:	CRC		Proje	ect Numb	er:							
Location: MW-1	4		Date	:	5	/17/1	6					
Station:			Sam	ple time:		11:5	5					
Casing diameter:	2"	Time/	Temp	Cond	рН	Eh	D.O.	Turb'.				
Total well depth:	17.5	Volume	°C	@ 25				NTU				
Static water level:	10,91		19,21	1522	7,44	111.9	3.09					
Water depth ¹ :	6.59											
Well volume (gal):	1.08											
Purge method:												
Sample Method:												
Start time:												
Stop time:												
Duration (min.):		Odor:		<del></del>								
Rate, gpm:		Purge appearan	ce:									
Volume purged:	1.0	Sample appearan	ce:	Clou	dy, 1	ight b	orn					
Duplicate collected?	No	Commen	its:									
Sampled by:	ADKT											
	SMR											
Others present:				Well Co	ndition							
Analysis:	Voc	filtered me	tal r	nl filter	in-line fi	lter o	others:					
MW:gw monitoring well WS:water supply well SW:surface water SE:sediment other:												

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

### **Field Information Data Sheet**

Client Name: _	City of Roche	ester							
Project Name: _	CRC		Proje	ect Numb	er:				
Location: MW-	15		Date	) <b>.</b>		5/17,	/16		
Station:			Sam	ple time:			11:35		
	<del></del>		,						
Casing diameter:	2"	Time/	Temp	Cond	pН	Eh	D.O.	Turb.	
Total well depth:	18	Volume	°C	@ 25				NTU	
Static water level:	13.04		20.80	3226	7.05	149.9	3.69		
Water depth ¹ :	4.96		-						
Well volume (gal):	0.8								
Purge method:									
Sample Method:									
Start time:									
Stop time:									
Duration (min.):		Odor:							
Rate, gpm:		Purge appearar	nce:						
Volume purged:	pumped	Sample appearan	nce:	Clan	dy , (	ight bis	w		
Duplicate collected?	No	Commer	nts:						
Sampled by:	ADIC + SMIZ	į							
Others present:		· ,		Well Co	ndition				
Analysis:	VOC	filtered me	etal 1	ml filter	in-line fi	lter	others:		
MW:gw monitorin	g well WS:wa	iter supply	well SW	:surface v	water SE	E:sedime	ent other	••	

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

Client Name:	ity of Roche	ester										
Project Name:	CRC		Project Number:									
Location: MW-1	.6		Date	<b>:</b> :	_5/	17/16						
Station:			Sam	ple time:	l	1:45						
Casing diameter:	2"	Time/	Temp	Cond	pН	Eh	D.O.	Turb.				
Total well depth:	18	Volume	°C	@ 25				NTU				
Static water level:	11,38		19.58	3358	7,25	13/.6	4.49					
Water depth ¹ :	ar. 6.62	,				- '						
Well volume (gal):	1.08											
Purge method:												
Sample Method:												
Start time:												
Stop time:												
Duration (min.):		Odor:										
Rate, gpm:		Purge appearan	ice:									
Volume purged:	1,0	Sample appearar	nce:									
Duplicate collected?	No	Commer	nts:									
Sampled by:  ADK +  5MR												
Others present:				Well Co	ondition							
Analysis:	VOC	filtered me	etal 1	ml filter	in-line f	ilter	others:					
MW:gw monitoring	g well WS:wa	ater supply	well SW	V:surface	water SI	E:sedime	ent other	••				
Measurements are referenced from top of riser pipe, unless otherwise indicated.												

## **Field Information Data Sheet**

Client Name:	City of Roche	ster								
Project Name:	CRC		Proje	ect Numb	er:					
Location: MW-	-17		Date	<b>:</b>		5/17	116			
Station: 2	5		Sam	ple time:		150				
Casing diameter:	2"	Time/	Temp	Cond	рН	Eh	D.O.	Turb.		
Total well depth:	25	Volume	°C	@ 25				NTU		
Static water level:	11.3		19.44	1539	10.39	-195.6	0.47			
Water depth ¹ :	13,69									
Well volume (gal):	2.23									
Purge method:										
Sample Method:										
Start time:										
Stop time:										
Duration (min.):		Odor:								
Rate, gpm:	,	Purge appearan	ice:	Bre	own -	sun so	ear			
Volume purged:	La was Du	Sample appearan	ice:	Cleur	-w/bn	own 50	lids			
Duplicate collected?	No	Commen		1	.1.	_				
Sampled by:	ADK		ţ	umpeel	an	(				
Others present:				Well Co	ndition					
Analysis:	VOC :	filtered me	etal r	nl filter	in-line f	ilter	others:			
MW:gw monitoring	ng well WS:wa	ter supply	well SW	:surface v	water SI	E:sedime	nt othe	r:		

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

## Landmark Environmental, LLC

Client Name:	City of Roche	ster						
Project Name:	CRC		Proj	ect Numl	er:			
Location: MW-1	18		Date	<del>)</del> :	5	[[17/1 [:40	6	
Station:			Sam	ple time:		(:40		
	· · · I		1	I	1	1		
Casing diameter:	2"	Time/	Temp °C	Cond	pН	Eh	D.O.	Turb.
Total well depth:	60	Volume	_	@ 25				NTU
Static water level:	11.26		19.61	2114	10,47	-210.8	0.74	
Water depth ¹ :	48.74							
Well volume (gal):	7.95							
Purge method:								
Sample Method:								
Start time:								
Stop time:					ļ			
Duration (min.):		Odor:						
Rate, gpm:	!	Purge appearan	ice:					
Volume purged:	For 15 minutes	Sample appearan	ice:					
Duplicate collected?	Mr No	Commer	nts:					
Sampled by:	AOICH							
Others present:				Well Co	ondition			
Analysis:	VOC 1	filtered me	etal 1	ml filter	in-line f	ilter	others:	
MW:gw monitoring	g well WS:wa	ter supply	well SW	V:surface	water SI	E:sedime	nt other	•

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

## **Field Information Data Sheet**

Chent Name:	of Roche	ster									
Project Name:	CRC	Project Number:									
Location: MW-1	9		Date	<b>:</b>	5	/17/	6				
Station:			Sam	ple time:		12:0	0				
Casing diameter:	2"	Time/	Temp	Cond	pН	Eh	D.O.	Turb.			
Total well depth:	20	Volume	°C	@ 25				NTU			
Static water level:	12.30		17,32	6835	6.69	153,9	2.8				
Water depth ¹ :	NUMBER 7,5			-							
Well volume (gal):	1,22		-								
Purge method:											
Sample Method:											
Start time:											
Stop time:											
Duration (min.):		Odor:									
Rate, gpm:		Purge appearan	ice;	Cl	ouly	brod	ión				
Volume purged:	1,0	Sample appearan	ice:		•	1					
Duplicate collected?	No BAME	Commer	nts:								
Sampled by:	ADK J SMR										
Others present:				Well Co	ndition						
Analysis:	(VOC)	filtered me	etal 1	nl filter	in-line f	ilter	others:				
MW:gw monitoring	g well WS:wa	ter supply	well SW	:surface v	vater SI	E:sedime	ent othe	r:			

13:45

### **Field Information Data Sheet**

Client Name: _	City of Roche	ester										
Project Name: _	CRC		Proj	ect Numb	er:							
Location: MW-	20		Date	<b>)</b> :	5	/17/1	4					
Station:			Sam	ple time:	1	2:10						
	1			1								
Casing diameter:	2"	Time/	Temp	Cond	pН	Eh	D.O.	Turb.				
Total well depth:	16.7	Volume	°C	@ 25				NTU				
Static water level:	11,31		19.00	1033	8.16	-22.7	6.35					
Water depth ¹ :	5.19											
Well volume (gal):	0,85											
Purge method:												
Sample Method:												
Start time:												
Stop time:												
Duration (min.):		Odor:						n. n.				
Rate, gpm:		Purge appearan	ice:		u	n o						
Volume purged:	Pringer	Sample	ıce:	C'	loudy,	darker	n					
Duplicate collected?	No	Commen	nts:									
Sampled by:	ADIL. J											
	SMR											
Others present:		•		Well Co	ondition							
Analysis:	voc	filtered me	etal 1	ml filter	in-line fi	ilter	others:					
MW:gw.monitorin	g well WS:wa	iter supply	well SW	V:surface	water SE	E:sedime	nt other	••				
1 Measurements ar												

### Attachment C

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

Date	Time	Extraction	DPE Pump	Hours per	Days per Period		Flo	w Rate		DPE Air Flow	Pump Inlet Vacuum (in.	Post-MS-2 Vacuum (in.	Post-MS-1 Vacuum	_	/Pre-MS-1 n (in. Hg)	Pre-Manifold Vacuum (in.	DPE Well Casing		np Outlet sure		Outlet Temp. g. F)	DPE Exhaust	Extraction Well Bleed	DPE Pump	e Comments
Date	Time	Well	Hours	Period		Field (scfm)	Analog (scfm)	Analog (m³/s)	Analog (acfm)	(scf)	Hg)	Hg)	(in. Hg)	Analog	Field	Hg)	Vacuum (in. H ₂ O)	Analog (psi)	Field (in H ₂ O)	Analog	Field	PID (ppm)	Valve % Open	% Open	Comments
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 9/4/2009	946 1135	DPE-1 DPE-1	957.0 959.0	2.0	0.0	40 25	36.1 27.3	0.017 0.013	120.5 117.2	1,209,000 1,212,000	21.01 22.99	NA NA	21.0 22.5	20.43 22.70	21.0 22.5	20.0 22.5	149 >150	0	0	210 275	248 270	>4000 >4000	100 30	0	DPE & AS exhaust sampled  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 12/17/2009	1800 907	DPE-1 DPE-5	2361.0 2960.0	437.0 599.0	18.2 25.0	30 ND	28.6	0.013	144.2	3,992,000	24.02 19.53	NA NA	23.5 19.0	23.01 18.70	23.5 18.9	23.0 18.9	>150 155	0.00	0	301 247	300 248	>4000 850	100 NR	0	6-hr composite air sample collected
12/17/2009	1300	DPE-3	3228.0	268.0	11.2	NR 60	62.1 60.7	0.029 0.029	177.8 187.9	6,218,000 7,333,000	20.31	NA NA	17.2	17.21	17.20	17.2	122	0.00	0	266	268	720	NR	0	6-hr composite air sample collected
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 742	DPE-8 DPE-2	4472.0 4868.0	311.0 396.0	13.0	105	103.6	0.049	226.1	12,597,000	16.29 16.45	NA NA	15.8 16.1	15.64 15.66	15.10 15.10	14.8 14.9	NR 165	0.00	NR 0	160 251	161 248	NR 105	NR 100	0	Pump inlet screen removed; DPE oil changed
3/25/2010 ¹ 4/16/2010	742 731	DPE-3	5308.0	440.0	16.5 18.3	110 72	110.1 72.7	0.052 0.034	243.2 218.0	14,285,000 16,587,000	20.00	18.5	18.5	19.21	18.00	18.0	130	0.02	0	255	251	105 17.5	100	0	6-hr composite air sample collected 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 12/22/2010	950 1200	DPE-5 DPE-1	8662.0 9378.0	440.0 716.0	18.3 29.8	130 50	128.3 51.5	0.061 0.024	275.4 219.8	30,379,000 37,039,000	16.06 22.95	15.1 NR	15.1 23.0	15.31 22.02	15.00 22.00	15.0 22.0	100 60	0.00 0.02	0	200 229	198 209	ND 10.1	100 100	0	6-hr composite air sample collected 6-hr composite air sample collected
1/6/2011	800	DPE-1	9717.0	339.0	14.1	75	75.5	0.024	264.3	41,669,000	21.42	24.5	20.5	20.49	20.50	19.0	54	0.02	0	164	151	17.8	100	0	5 THE SETTIPORTO OF SETTIPO CONCOLOU
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 20.0	16.0	16.15	15.50	15.5	115	0.00	0	110	112	22.7	100	0	
3/18/2011 3/23/2011	1330 900	DPE-1 DPE-7	11274.0 11277.0	260.0 3.0	10.8 0.1	55 75	55 72.7	0.026 0.034	187.0 188.6	50,861,000 50.872.000	21.17 18.45	22.0 18.5	21.5 17.0	21.17 17.44	19.50 16.00	19.5 16.5	55 30	0.00	0	235 209	213 185	3.0 8.6	100 100	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 6/16/2011	600 1200	DPE-2 DPE-1	12645.0 13314.0	332.0 669.0	13.8 27.9	40 45	40.9 44	0.019	165.5 172.5	56,604,000 59,908,000	22.57 22.33	22.5 22.5	22.0 22.0	21.34 21.37	19.30 21.00	19.0 19.0	125 55	0.00	0	234 256	239 240	7.1 0.5	100 100	0	6-hr composite air sample collected
7/25/2011	900	DPE-1	14169.0	855.0	35.6	40	39	0.021 0.018	157.0	63,072,000	22.53	23.0	21.5	21.50	20.50	19.6	60	0.02	0	235	225	55.1	100	0	6-hr composite air sample collected 6-hr composite air sample collected
8/28/2011	1100	DPE-7	14962.0	793.0	33.0	70	68.4	0.032	200.7	66,305,000	19.78	19.5	17.0	18.71	18.00	18.1	49	0.00	0	244	225	0.0	100	0	6-hr composite air sample collected
9/29/2011	1140	DPE-4	15722.0	760.0	31.7	65	66	0.031	205.4	69,249,000	20.36	20.0	17.0	19.58	18.00	16.5	130	0.04	MF	245	225	2.8	100	0	6-hr composite air sample collected
10/18/2011	NR	DPE-4	15799.0	77.0	3.2	NR 40	66.7	0.031	210.4	69,540,000	20.49	NR 20.5	NR 20.0	19.83	NR	NR 10.0	NR or	0.02	NR 0	221	NR	NR 477.0	100	0	C be accessive size accessive self-acted
10/27/2011	800 1100	DPE-2 DPE-2	16013.0 16619.0	214.0 606.0	8.9 25.3	40	38.1 39.2	0.018 0.018	157.0 161.5	70,230,000 72,526,000	22.70 22.70	22.5 22.5	22.0 21.5	22.40 22.50	20.00 19.00	19.0 18.9	95 151	0.03	0	250 256	226 238	177.0 365.0	100 100	0	6-hr composite air sample collected 6-hr composite air sample collected
1/20/2012	800	DPE-1	16879.0	260.0	10.8	50	44.7	0.021	101.9	73,361,000	16.87	16.5	15.0	16.83	14.50	14.5	50	0.00	0	201	196	5.7	100	0	o in composite an campie concerca
1/27/2012	900	DPE-2	17042.0	163.0	6.8	30	29.3	0.014	92.7	73,847,000	20.52	20.5	18.5	20.18	18.00	17.5	149	0.03	NR	245	224	6.4	100	0	6-hr composite air sample collected
2/16/2012	900	DPE-2	17520.0	478.0	19.9	30	27.5	0.013	104.4	75,246,000	22.08	22.0	21.0	21.64	18.00	18.5	151	0.02	0	262	235	6.0	100	0	6-hr composite air sample collected
3/16/2012 3/27/2012	1100 700	DPE-4 DPE-1	18219.0 18443.0	699.0 224.0	29.1 9.3	70 30	71.2 29.2	0.034 0.014	137.4 101.0	77,432,000 78,086,000	14.50 21.32	14.0 21.0	12.5 19.5	14.40 20.73	12.50 19.00	12.0 18.5	80 48	0.03	0	199 146	185 148	NA 10.3	100	0	6-hr composite air sample collected
4/17/2012	1025	DPE-1	18964.0	521.0	21.7	30	31.3	0.014	91.7	79,504,000	19.76	19.5	18.0	19.21	18.00	17.5	130	0.00	0	229	220	13.4	100	0	6-hr composite air sample collected
5/17/2012	1000	DPE-8	19660.0	696.0	29.0	50	48.6	0.023	103.1	82,983,000	15.90	15.5	14.1	15.70	14.10	12.5	68	0.03	0	208	199	1.0	100	0	6-hr composite air sample collected
5/31/2012	1059	DPE-4	19950.0	290.0	12.1	30	25.5	0.012	81.8	83,649,000	20.65	20.0	MF	19.19	MF	MF	140	0.02	0	235	218	6.8	100	0	
6/14/2012	1017	DPE-4	20279.0	329.0	13.7	40	42	0.020	124.7	85,460,000	19.90	19.5	15.9	17.50	15.10	15.1	90	0.03	0	233	225	8.5	100	0	6-hr composite air sample collected
7/19/2012 8/23/2012	730	DPE-3 DPE-3	21119.0 21872.0	840.0 753.0	35.0 31.4	50 35	49.6 36.1	0.023 0.017	139.7 116.6	86,992,000 89,163,000	19.36 20.71	18.5 20.0	14.5 10.5	15.67 10.87	15.00 11.50	15.0 11.5	126 75	0.05	0	239 240	226 220	15.6 NR	100 100	0	6-hr composite air sample collected 6-hr composite air sample collected
9/26/2012	2012	DPE-3	22695.0	823.0	34.3	46	45	0.017	126.2	91,533,000	19.31	18.5	17.0	17.95	18.50	18.5	135	0.00	0	237	220	11.3	100	0	6-hr composite air sample collected
10/26/2012		DPE-3	23397.0	702.0	29.3		45.8	0.022	128.1	93,568,000	19.28	18.5	17.0	18.32	17.00	17.0	130	0.04	0	241	220	12.2	100	0	6-hr composite air sample collected
12/21/2012	830	DPE-3	23442.0	45.0	1.9	50	49.6	0.023	144.4	93,698,000	19.70	19.0	17.0	16.60	19.00	18.0	125	0.02	0	216	200	97.0	100	0	6-hr composite air sample collected
1/4/2013 1/30/2013	940 600	DPE-3 DPE-3	23665.0 24138.0	223.0 473.0	9.3 19.7	45 45	429 42.1	0.202 0.020	1250.0 116.6	94,374,000 95.732.000	19.71 19.18	19.0 18.5	18.0 17.5	16.87 19.20	19.00 17.50	18.0 17.5	NR 125	0.00	0	98 245	115 227	21.7 29.0	100 100	0	6-hr composite air sample collected
2/13/2013	800	DPE-3	24315.0	177.0	7.4	NR	35.2	0.020	132.2	96,215,000	22.00	NR	NR	18.99	17.50 NR	NR	NR	0.03	NR	182	NR	29.0 NR	100	0	o in composite an sample conected
2/26/2013	600	DPE-2	24625.0	310.0	12.9	30	29.3	0.014	110.1	97,097,000	22.00	21.0	19.0	19.70	21.00	17.5	145	0.02	0	205	180	5.8	100	0	6-hr composite air sample collected
3/21/2013	800	DPE-1	25176.0	551.0	23.0	35	33.6	0.016	110.5	98,617,000	20.87	20.0	18.5	19.85	GF	18.0	37	0.02	0	230	208	10.6	100	0	6-hr composite air sample collected
5/23/2013	1600	DPE-3	25691.0	515.0	21.5	40	40	0.019	127.5	100,050,000	20.59	20.0	18.0	19.40	20.00	20.5	120	0.02	0	245	224	12.3	100	0	6-hr composite air sample collected
6/26/2013 8/26/2013	1040 1730	DPE-4 DPE-4	26501.0 27889.0	810.0 1388.0	33.8 57.8	60 190	56.3 164	0.027 0.077	179.3 309.0	102,418,000 108,474,000	20.58 14.13	20.0 12.0	18.0 9.5	20.39 13.52	21.00 16.00	21.0 16.0	90 130	0.03	0	246 200	220 211	1.4 1.4	100 100	0	6-hr composite air sample collected 6-hr composite air sample collected
10/12/2015	1100	DPE-2	27898.0	9.0	0.4	35	34	0.016	108.3	108,521,000	20.58	19.0	8.0 (MF)	16.62	21.00	10.0	NR	0.00	0	230	220	38.0	100	0	5 Th SSTIPOORS ON SURPLY CONCOLOR
10/13/2015	1400	DPE-3	27914.0	16.0	0.7	50	53.2	0.025	128.9	108,580,000	17.64	17.0	8.0 (MF)	16.60	17.00	16.00	NR	0.13	0	228	210	N/A*	100	0	6-hr composite air sample collected
12/15/2015	1300	DPE-1	27919.0	5.0	0.2	55	53.5	0.025	132.1	108,597,000	17.87	17.1	16.9	16.43	16.90	15.00	NR	0.07	0	206	200	45	100	0	
1/12/2016	1430	DPE-4 DPE-5	28591.0 29503.0	672.0 912.0	28.0	50	46.7	0.022	138.2	111,088,000	19.87 16.08	19.5 15.5	18.5 15.5	18.84 15.55	18.50 15.50	MF 15.75	245 200	0.09	0	250 198	230 185	153	100 100	0	6-hr composite air sample collected
2/23/2016 3/30/2016	1250 1440	DPE-3	30254.0	751.0	38.0 31.3	80 55	76.6 52.4	0.036 0.025	164.7 157.5	114,747,000 117,920,000	20.02	19.0	19.0	18.85	19.00	18.50	225	0.05 0.04	MF	198	200	17	100	0	6-hr composite air sample collected 6-hr composite air sample collected
4/20/2016	915	DPE-5	30758.0	504.0	21.0	75	75.5	0.036	169.5	119,987,000	16.67	16.0	16.0	16.17	16.00	17.50	205	0.10	MF	234	220	0.1	100	0	6-hr composite air sample collected
5/18/2016	1415	DPE-3	31395.0	637.0	26.5	50	46.9	0.022	151.2	122,641,000	20.69	19.5	19.5	19.58	19.00	17.50	220	0.04	MF	250	230	14.5	100	0	6-hr composite air sample collected
Notes:						l																			

7/29/2016

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

GF: Gauge Failure

F:VPROJECTS/Crc-City of Rochester/data tables\
System O&M Data 2015

#### 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 Pum Totalize			Flow Rate om)	MS Pump Pressure (psi)	Elevator Sump Water Flow (gal)		Comments
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 1/14/2010	1300 923	49 49	187 202	97,028 106,024	99,694 108,984	NR NR	11.0 10.7	NR 36.0	330 330	NR 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 7/26/2010	1047 1100	50 50	337 371	191,958 217,314	200,398 226,504	13.90 12.94	12.9 13.1	14.0 15.0	330 330	500 500	
9/27/2010	1030	50	389	228,896	240,247	13.19	13.1	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	170 170	549	343,924	359,443 369,445	12.79	12.7	14.0	470 470	514 514	
3/18/2011 3/23/2011	1330 900	170	562 562	350,182 350,324	369,603	13.30 12.60	12.5 12.6	17.0 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 9/29/2011	1100 1140	197	875 921	645,249	63,442 94,268	12.80	12.9 12.5	14.0 15.0	490 490	NA 515	
10/18/2011	NR	198 199	978	673,352 681,235	94,266 NR	12.07 NR	NR	NR	560	NR	
10/27/2011 ²	800	199	992	694,330	115,245	11.60	12.0	15.0	560	541	
11/21/2011	1100	199	1040	716,049	143,520	12.08	12.2	16.5	NR	541	
1/20/2012	800	199	1057	725,742	153,493	12.60	12.7	18.0	610	541	
1/27/2012	900	199	1065	731,337	159,280	12.20	12.2	17.0	610	541	
2/16/2012	900	199	1090	746,725	175,164	10.10	10.0	16.0	610	541	
3/16/2012	1100 700	199	1127	757,124	184,976	12.40	12.5	20.0	610	541	
3/27/2012 4/17/2012	1025	200 206	1142 1201	764,672 783,561	192,639 210,594	11.91 12.20	12.0 12.2	18.0 21.0	610 610	NR 541	
5/17/2012	1000	211	1255	809,091	236,394	11.96	12.2	21.0	610	541	
5/31/2012	1059	215	1290	819,567	NR	11.20	11.2	20.0	610	NR	
6/14/2012	1017	220	1335	830,565	256,390	10.90	11.0	26.0	610	541	
7/19/2012	1111	220	1364	835,414	260,681	9.80	9.8	35.0	610	541	
8/23/2012	730	302	1399	849,507	275,367	13.20	13.2	12.0	610	541	
9/26/2012	2012	302	1414	860,318	286,603	14.00	14.0	8.0	610	541 541	
10/26/2012 12/21/2012	600 830	309 385	1536 1662	951,486 MF ³	300,594	11.80 MF	12.0 MF	16.0 12.0	610 610	541 541	meter failure; DPE system shut down from Oct. 26 thru Dec. 21
1/4/2013	940	497	1735	1,523,769	309,790	48.00	MF	NR	610	541	
1/30/2013	600	640	1827	1,789,194	314,080	48.00	NA	12.0	610	541	
2/13/2013	800	684	1864	1,894,598	NR	12.00	NR	NR	NR	NR	
2/26/2013	600	684	1883	1,905,916		10.82	11.0	16.0	610	541	
3/21/2013 5/23/2013	800 1600	684	1916	1,925,225		11.30	10.8 12.3	18.0	610	541 541	
6/26/2013	1600 1040	684 684	1950 2035	1,941,137 1,954,470		12.60 1.80	9.0	15.0 14.0	610 610	541 541	
8/26/2013	1730	693	2201	1,981,481	NR	0.00	12.8	NR	610	541	
10/13/2015	1400	693	2205	1,982,572	NR	0.81	NR	NR	610	541	
12/15/2015	1300	693	2205	1,982,639	NR	11.64	NR	NR	610	541	
1/12/2016	1430	693	2260	1,993,342	407,700	4.73	4.4	MF	610	541	
2/23/2016	1250	693	2347	2,232,374	408,210	48.00	NR	MF	610	NR	Both analog and field flow totalizer reading indicate the flow meter is failing
3/30/2016	1440	693	2436	2,489,395		48.00	MF	MF	610	NR	Both analog and field flow totalizer reading indicate the flow meter is failing
4/20/2016	915	693	2515	2,716,043		48.00	MF	8.0	610	NR	Both analog and field flow totalizer reading indicate the flow meter is failing  Both analog and field flow totalizer reading indicate
5/18/2016	1415	693	2637	3,068,238	408,749	48.00	MF	8.0	610	541	the flow meter is failing

#### Notes:

NR: Not recorded. NP: Not pumping MF: Meter Failure

2. Analog flow totalizer reading estimated from field readings from Oct. 27 and Sept 29, 2011.

^{1.} Discharge flowmeter malfunction caused invalid field totalizer reading; therefore, analog flow totalizer was used.

^{3.} Flow meter and totalizer not working. The DPE system was off from Oct. 26 through Dec. 21, 2012; therefore, the volume discharged during this period was 0 gallons.

#### 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 ND	26	ND 05.7	
6/16/2011	1200	5140	374	17	NR	25	25.7	
7/25/2011 8/28/2011	900 1100	5575 5892	405 432	17 16	<u>8</u> 9	25 26	4.3 0.0	
9/29/2011	1140	6332	455	17	7	25	0.0	
10/18/2011	NR	6398	458	NR	NR	NR	NR	
10/18/2011	800	6524	465	17	9	25	ND ND	
11/21/2011	1100	6884	485	17	9	24	ND	
1/20/2012	800	7025	493	16	9	25	ND	
1/27/2012	900	7103	498	16	8	25	ND	
2/16/2012	900	7329	510	17	9	24	ND	
3/16/2012	1100	7664	530	16	8	26	NR	
3/27/2012	700	7767	535	16	9	25	ND	
4/17/2012	1025	8019	549	16	10	24	ND	
5/17/2012	1000	8359	563	16	9	24	ND	
5/31/2012	1059	8498	574	16	8	NR	ND	
6/14/2012	1017	8602	586	17	9	18	ND	
7/19/2012	1111	8903	602	16	8	19	ND	
8/23/2012	730	9110	615	9	16	19	ND	
9/26/2012	2012	9268	626	16	9	19	ND	
10/26/2012	600	9527	638	17	11	NR	ND	
12/21/2012	830	9625	639	16	9	NR	ND	
1/4/2013	940	9777	644	17	9	16	ND	
1/30/2013	600	10054	658	16	9	19	ND	
2/13/2013	800	10788	665	NR 45	NR 0	NR 48	NR	
2/26/2013	600 800	10381 10711	684	15	9 16	18	ND ND	
3/21/2013 5/23/2013	1600	10/11	696 714	5 19	16 8	21 16	ND ND	
6/26/2013	1040	11713	714 757	16	4	20	ND ND	
8/26/2013	1730	12844	823	16	8	18	ND ND	
10/13/2015	1400	12850	824	17	9	18	ND ND	
12/15/2015	1300	12868	825	16	10	18	NR	
1/12/2016	1430	13367	854	16	8	18	0.0	
2/23/2016	1250	14040	893	12	8	16	0.0	
3/30/2016	1440	14599	924	16	13	18	0.0	
4/20/2016	915	14992	947	16	9	18	0.0	
5/18/2016	1415	15487	978	16	11	17	0.0	
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Notes: NR: Not recorded. NP: Not pumping. ND: Not detected.

#### 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 10	210	125	88 148	79 100	115 115	71 70	81
7/26/10* 9/27/2010	52	158 200	126 130	125	90	100	40	80 90
10/18/2010	60	151	126	85	100	110	31	60
12/22/2010	60	150	170	77	110	118	185	90
1/6/2011	54	149	120	148	75	98	30	70
1/20/2011	62	145	120	130	120	145	30	70
2/27/2011	35	145	98	64	74	138	32	84
3/7/2011	55	148	135	70	115	99	30	74
3/18/2011	55	148	150	130	115	100	35	80
3/23/2011	58	145	135	120	120	90	30	80
4/22/2011	68	150	125	128	120	100	29	80
5/19/2011	40	125	140	80	75	85	30	75
6/16/2011	55	200	125	130	120	100	40	85
7/25/2011	60	145	125	120	110	105	40	80
8/28/2011	58	158	130	140	120	100	49	75
9/29/2011	50	150	135	130	110	150	65	80
10/27/2011	50	150	124	89	100	128	48	74
11/21/2011	49	151	148	125	115	105	49	75
1/20/2012	50	115	98	75	100	98	33	65
1/27/2012	40	148	130	120	110	105	40	80
2/16/2012	40	151	147	128	110	108	50	80
3/16/2012 3/27/2012	48 48	130 150	115 125	80 120	80 110	105 100	48 28	80 78
4/17/2012	48	149	130	130	110	100	49	75
5/17/2012	42	98	126	90	100	98	30	68
5/31/2012	32	149	126	140	85	100	48	95
6/14/2012	35	130	126	90	90	120	50	80
7/19/2012	35	148	126	125	100	109	48	80
8/23/2012	27	112	75	95	78	75	25	60
9/26/2012	40	128	135	128	115	109	49	80
10/26/2012	50	120	130	115	80	100	45	75
12/21/2012	50	128	125	118	100	100	49	75
1/30/2013	55	125	125	115	100	100	40	75
2/26/2013	45	145	120	115	105	115	48	80
3/21/2013	37	148	127	125	98	120	49	80
5/23/2013	50	126	120	110	95	95	35	75
6/26/2013	45	115	125	90	115	80	30	60
8/26/2013	25 ND	95 ND	75 ND	130	100	75	30 ND	70 ND
10/13/2015	NR 204	NR 102	NR 41	NR ND	NR 177	NR 157	NR 190	NR 122
12/14/2015** 1/12/2016	204 230	102 225	41 230	NR 245	180	157 190	190 NR	122
2/23/2016	235	235	225	250	200	210	200	195 175
3/30/2016	240	235	225	250	210	215	200	200
4/20/2016	250	245	230	250	205	215	225	205
5/18/2016	250	250	220	250	215	220	215	200
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Notes: **Bold** indicates the current operating extraction well.

NR: Not recorded

* - DPE-1 issues

** - Pressure readings taken off the manifold piping in inches of Hg and converted to in. H2O

Pide				DPE	DPE Pump
Well ID         Date (ppm)         Flow Rate (scfm) (scfm)         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         124-Jan-10         NR         NR         NR           DPE-1         125-Mar-10         868.0         40.0         23           DPE-1         16-Apr-10         287.0         40.0         22           DPE-1         17-Jun-10         32.1         30.0         22           DPE-1         17-Jun-10         32.1         30.0         22           DPE-1         17-Jun-10         32.1         30.0         22           DPE-1         17-Sep-10         >1750         82.0         18.23           DPE-1         18-Oct-10         25.0         40.0         20           DPE-1         18-Oct-10         25.0         40.0         20           DPE-1         18-Oct-10         25.0         40.0         20					
Well ID         Date         (ppm)         (scfm)         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         28-Dec-09         1,120.0         NR         NR           DPE-1         14-Jan-10         NR         NR         NR           DPE-1         12-Feb-10         914.0         35.0         22.5           DPE-1         12-May-10         9.9         45.0         23.5           DPE-1         17-Jun-10         32.1         30.0         22           DPE-1         17-Jun-10         32.1         30.0         20           DPE-1         18-Oct-10         25.0         40.0         20           DPE-1			PID		
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         18-Nov-09         4,000.0         62.1         19.53           DPE-1         28-Dec-09         1,120.0         NR         NR           DPE-1         28-Dec-09         1,120.0         NR         NR           DPE-1         12-Feb-10         914.0         35.0         22.5           DPE-1         12-Feb-10         914.0         35.0         22.5           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         17-Jun-10         32.1         30.0         20           DPE-1         18-Oct-10         25.0         40.0         20           DPE	Well ID	Date			, ,
DPE-1         16-Nov-09         4,000.0         66.3         20.28           DPE-1         17-Dec-09         4,000.0         62.1         19.53           DPE-1         128-Dec-09         1,120.0         NR         NR           DPE-1         124-Jan-10         NR         NR         NR           DPE-1         12-May-10         98.0         40.0         23           DPE-1         12-May-10         9.9         45.0         23.5           DPE-1         12-May-10         9.9         45.0         23.5           DPE-1         17-Jun-10         32.1         30.0         22           DPE-1         17-Sep-10         -1750         82.0         18.23           DPE-1         27-Sep-10         -1750         82.0         18.23           DPE-1         18-Oct-10         25.0         40.0         20           DPE-1 </td <td>DPE-1</td> <td>27-Oct-09</td> <td></td> <td>45.0</td> <td></td>	DPE-1	27-Oct-09		45.0	
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         12-Feb-10         914.0         35.0         22.5           DPE-1         22-Feb-10         914.0         35.0         22.5           DPE-1         12-May-10         868.0         40.0         23           DPE-1         16-Apr-10         287.0         40.0         22           DPE-1         17-Jun-10         32.1         30.0         22           DPE-1         17-Jun-10         32.1         30.0         22           DPE-1         17-Sep-10         -1750         82.0         18.23           DPE-1         17-Jec-10         1.4         40.0         19           DPE-1         17-Jec-10         1.4         40.0         19           DPE-1         17-Jec-10         1.1         40.0         22           DPE-1         18-Dec-10         10.1         55.0         20.9           DPE-1         12-Dec-10         10.1         55.0         20.9           DPE-1	DPE-1				
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         22           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         27-Dec-10         10.1         55.0         20.2           DPE-1         27-Mar-11         17.3         30.0         21.23           DPE-1	DPE-1	17-Dec-09	4,000.0	62.1	
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         17-Jun-10         32.1         30.0         22           DPE-1         17-Jun-10         32.1         30.0         22           DPE-1         17-Sep-10         >1750         82.0         18.23           DPE-1         27-Sep-10         >1750         82.0         18.23           DPE-1         18-Oct-10         25.0         40.0         20           DPE-1         18-Oct-10         25.0         40.0         20           DPE-1         22-Dec-10         10.1         55.0         20.2           DPE-1         22-Jan-11         17.8         82.0         20.2           DPE-1         27-Feb-11         6.4         61.0         20.66           DPE-1         18-Mar-11         33.4         50.0         21.23           DPE-1         18-Mar-11         13.3         40.0         21           DPE-1         18-Mar-11         17.5         39.0         21.26           DPE	DPE-1	28-Dec-09	1,120.0	NR	NR
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         17-Jun-10         32.1         30.0         22           DPE-1         27-Sep-10         >1750         82.0         18.23           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         20.9           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-Mar-11         33.4         50.0         21.23           DPE-1         18-Mar-11         3.0         57.0         21.1           DPE-1         18-Mar-11         1.3         40.0         21           DPE-1         19-May-11         17.5         39.0         21.26           DPE-1<	DPE-1	14-Jan-10	NR	NR	NR
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         18-Oct-10         25.0         40.0         20           DPE-1         22-Dec-10         10.1         55.0         22.95           DPE-1         22-Jan-11         17.8         82.0         20.2           DPE-1         20-Jan-11         12.1         55.0         20.9           DPE-1         27-Mar-11         33.4         50.0         21.23           DPE-1         18-Mar-11         3.0         57.0         21.1           DPE-1         27-Apr-11         17.5         39.0         21.26           DPE-1         19-May-11         4.4         30.0         21.5           DPE-1         19-May-11         27.0         37.0         22           DPE-1<	DPE-1	22-Feb-10	914.0	35.0	22.5
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         22-Dec-10         10.1         55.0         20.9           DPE-1         22-Jan-11         17.8         82.0         20.2           DPE-1         20-Jan-11         12.5         55.0         20.9           DPE-1         27-Feb-11         6.4         61.0         20.66           DPE-1         17-Mar-11         33.4         50.0         21.23           DPE-1         18-Mar-11         1.3         40.0         21.1           DPE-1         18-Mar-11         1.7.5         39.0         21.26           DPE-1         19-May-11         4.4         30.0         21.5           DPE-1         19-May-11         27.0         37.0         22           DPE		25-Mar-10	868.0	40.0	
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         18-Oct-10         25.0         40.0         20           DPE-1         22-Dec-10         10.1         55.0         22.95           DPE-1         26-Jan-11         17.8         82.0         20.2           DPE-1         29-Jan-11         12.1         55.0         20.9           DPE-1         27-Feb-11         6.4         61.0         20.66           DPE-1         27-Mar-11         33.4         50.0         21.23           DPE-1         18-Mar-11         3.0         57.0         21.1           DPE-1         18-Mar-11         1.3         40.0         21           DPE-1         23-Mar-11         17.5         39.0         21.26           DPE-1         16-Jun-11         27.0         37.0         22           DPE-1         16-Jun-11         27.0         37.0         22           DPE-1 <td>DPE-1</td> <td></td> <td>287.0</td> <td>40.0</td> <td>22</td>	DPE-1		287.0	40.0	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         18-Mar-11         1.3         40.0         21           DPE-1         18-Mar-11         1.3         40.0         21           DPE-1         19-May-11         4.4         30.0         21.26           DPE-1         19-May-11         4.4         30.0         21.5           DPE-1         19-May-11         5.0         37.0         22           DPE-1         19-May-11         5.0         37.0         22.15           DPE-1					
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         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         21.2           DPE-1         19-May-11         4.4         30.0         21.26           DPE-1         19-May-11         4.4         30.0         21.26           DPE-1         16-Jun-11         27.0         37.0         22           DPE-1         16-Jun-11         27.0         37.0         22           DPE-1         25-Jul-11         45.5         21.4           DPE-1         27-					
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         23-Mar-11         1.3         40.0         21.26           DPE-1         19-May-11         4.4         30.0         21.26           DPE-1         19-May-11         4.4         30.0         21.5           DPE-1         19-May-11         2.4         30.0         21.5           DPE-1         16-Jun-11         27.0         37.0         22           DPE-1         16-Jun-11         27.0         37.0         22           DPE-1         16-Jun-11         27.5         45.5         21.4           DPE-1					
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         19-May-11         4.4         30.0         21.5           DPE-1         19-May-11         5.0         37.0         22           DPE-1         19-May-11         5.0         37.0         22           DPE-1         19-May-11         5.0         37.0         22           DPE-1         25-Jul-11         57.5         45.5         21.4           DPE-1         25-Jul-11         57.5         45.5         21.4           DPE-1					
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         1.3         40.0         21           DPE-1         23-Mar-11         1.3         40.0         21           DPE-1         23-Mar-11         1.3         40.0         21           DPE-1         19-May-11         4.4         30.0         21.26           DPE-1         19-May-11         4.4         30.0         21.5           DPE-1         19-May-11         4.4         30.0         21.5           DPE-1         19-May-11         55.1         35.3         21.53           DPE-1         16-Jun-11         27.0         37.0         22           DPE-1         25-Jul-11         55.1         35.3         21.53           DPE-1         27-Oct-11         41.7         30.0         22.6           DPE-1         27-Oct-11         41.7         30.0         22.6           DPE-1					
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         18-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         19-May-11         4.4         30.0         21.5           DPE-1         19-May-11         4.4         30.0         22.15           DPE-1         19-May-11         55.1         35.3         21.53           DPE-1         25-Jul-11         55.1         35.3         21.53           DPE-1         28-Aug-11         27.5         45.5         21.4           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-Jan-12         12.0         34.3         20.3					
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         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         29-Sep-11         12.2         46.7         22.41           DPE-1         27-Oct-11         41.7         30.0         22.6           DPE-1         21-Nov-11         580.0         44.0         22.08           DPE-1         27-Jan-12         12.0         34.3         20.3					
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         19-May-11         5.1         35.3         21.53           DPE-1         25-Jul-11         55.1         35.3         21.53           DPE-1         28-Sep-11         12.2         46.7         22.41           DPE-1         29-Sep-11         12.2         46.7         22.41           DPE-1         27-Oct-11         41.7         30.0         22.6           DPE-1         27-Jan-12         12.0         34.3         20.3           DPE-1         27-Jan-12         12.0         34.3         20.3           DP					
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         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         28-Sep-11         12.2         46.7         22.41           DPE-1         29-Sep-11         12.2         46.7         22.41           DPE-1         27-Oct-11         41.7         30.0         22.6           DPE-1         27-Oct-11         41.7         30.0         22.6           DPE-1         27-Jan-12         15.7         51.6         16.79           DPE-1         27-Jan-12         12.0         34.3         20.3           DPE-1         16-Feb-12         3.5         30.6         20.65           D					
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         29-Sep-11         12.2         46.7         22.41           DPE-1         27-Oct-11         41.7         30.0         22.6           DPE-1         27-Oct-11         41.7         30.0         22.6           DPE-1         27-Jan-12         5.7         51.6         16.79           DPE-1         27-Jan-12         12.0         34.3         20.3           DPE-1         16-Reb-12         3.5         30.6         20.65           DPE-1         16-Mar-12         NA         23.0         21.14           DPE-1         17-Apr-12         11.3         25.5         21.05					
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         29-Sep-11         12.2         46.7         22.41           DPE-1         27-Oct-11         41.7         30.0         22.6           DPE-1         27-Jan-12         5.7         51.6         16.79           DPE-1         20-Jan-12         5.7         51.6         16.79           DPE-1         27-Jan-12         12.0         34.3         20.3           DPE-1         16-Reb-12         3.5         30.6         20.65           DPE-1         16-Mar-12         NA         23.0         21.14           DPE-1         17-Apr-12         11.3         25.5         21.05           DPE-1         17-Apr-12         11.3         25.5         21.05					
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         29-Sep-11         12.2         46.7         22.41           DPE-1         29-Sep-11         12.2         46.7         22.41           DPE-1         27-Oct-11         41.7         30.0         22.6           DPE-1         27-Oct-11         41.7         30.0         22.6           DPE-1         20-Jan-12         5.7         51.6         16.79           DPE-1         20-Jan-12         5.7         51.6         16.79           DPE-1         16-Feb-12         3.5         30.6         20.65           DPE-1         16-Feb-12         3.5         30.6         20.65           DPE-1         16-Mar-12         NA         23.0         21.14           DPE-1         17-Apr-12         11.3         25.5         21.05           <					
DPE-1         16-Jun-11         27.0         37.0         22           DPE-1         25-Jul-11         55.1         35.3         21.53           DPE-1         28-Aug-11         27.5         45.5         21.4           DPE-1         29-Sep-11         12.2         46.7         22.41           DPE-1         27-Oct-11         41.7         30.0         22.6           DPE-1         27-Oct-11         41.7         30.0         22.6           DPE-1         27-Oct-11         41.7         30.0         22.6           DPE-1         27-Jan-12         5.7         51.6         16.79           DPE-1         20-Jan-12         5.7         51.6         16.79           DPE-1         16-Feb-12         3.5         30.6         20.65           DPE-1         16-Feb-12         3.5         30.6         20.65           DPE-1         16-Mar-12         NA         23.0         21.14           DPE-1         17-Apr-12         11.3         25.5         21.05           DPE-1         17-Apr-12         11.3         25.5         21.05           DPE-1         17-May-12         13.1         16.0         20.9           <					
DPE-1         25-Jul-11         55.1         35.3         21.53           DPE-1         28-Aug-11         27.5         45.5         21.4           DPE-1         29-Sep-11         12.2         46.7         22.41           DPE-1         27-Oct-11         41.7         30.0         22.6           DPE-1         27-Oct-11         41.7         30.0         22.6           DPE-1         27-Nov-11         580.0         44.0         22.08           DPE-1         20-Jan-12         5.7         51.6         16.79           DPE-1         27-Jan-12         12.0         34.3         20.3           DPE-1         16-Feb-12         3.5         30.6         20.65           DPE-1         16-Mar-12         NA         23.0         21.14           DPE-1         16-Mar-12         NA         23.0         21.14           DPE-1         17-Apr-12         11.3         25.5         21.05           DPE-1         17-May-12         11.3         25.5         21.05           DPE-1         17-May-12         13.1         16.0         20.9           DPE-1         14-Jun-12         6.9         37.0         19.4					
DPE-1         28-Aug-11         27.5         45.5         21.4           DPE-1         29-Sep-11         12.2         46.7         22.41           DPE-1         27-Oct-11         41.7         30.0         22.6           DPE-1         21-Nov-11         580.0         44.0         22.08           DPE-1         20-Jan-12         5.7         51.6         16.79           DPE-1         20-Jan-12         5.7         51.6         16.79           DPE-1         27-Jan-12         12.0         34.3         20.3           DPE-1         16-Feb-12         3.5         30.6         20.65           DPE-1         16-Mar-12         NA         23.0         21.14           DPE-1         17-Apr-12         10.5         29.6         20.73           DPE-1         17-Apr-12         11.3         25.5         21.05           DPE-1         17-May-12         13.1         16.0         20.12					
DPE-1         29-Sep-11         12.2         46.7         22.41           DPE-1         27-Oct-11         41.7         30.0         22.6           DPE-1         21-Nov-11         580.0         44.0         22.08           DPE-1         20-Jan-12         5.7         51.6         16.79           DPE-1         27-Jan-12         12.0         34.3         20.3           DPE-1         16-Feb-12         3.5         30.6         20.65           DPE-1         16-Mar-12         NA         23.0         21.14           DPE-1         16-Mar-12         NA         23.0         21.14           DPE-1         17-Apr-12         10.5         29.6         20.73           DPE-1         17-Apr-12         11.3         25.5         21.05           DPE-1         17-May-12         13.1         16.0         20.9           DPE-1         17-May-12         13.1         16.0         20.9           DPE-1         14-Jun-12         6.9         37.0         19.4           DPE-1         14-Jun-12         6.9         37.0         19.4           DPE-1         19-Jul-12         10.9         40.9         18.6           <					
DPE-1         27-Oct-11         41.7         30.0         22.6           DPE-1         21-Nov-11         580.0         44.0         22.08           DPE-1         20-Jan-12         5.7         51.6         16.79           DPE-1         27-Jan-12         12.0         34.3         20.3           DPE-1         16-Feb-12         3.5         30.6         20.65           DPE-1         16-Mar-12         NA         23.0         21.14           DPE-1         27-Mar-12         10.5         29.6         20.73           DPE-1         17-Apr-12         11.3         25.5         21.05           DPE-1         14-Jun-12         6.9         37.0         19.4					
DPE-1         21-Nov-11         580.0         44.0         22.08           DPE-1         20-Jan-12         5.7         51.6         16.79           DPE-1         27-Jan-12         12.0         34.3         20.3           DPE-1         16-Feb-12         3.5         30.6         20.65           DPE-1         16-Feb-12         NA         23.0         21.14           DPE-1         16-Mar-12         NA         23.0         21.14           DPE-1         27-Mar-12         10.5         29.6         20.73           DPE-1         17-Apr-12         11.3         25.5         21.05           DPE-1         17-May-12         13.1         16.0         20.9           DPE-1         31-May-12         31.4         24.0         20.12           DPE-1         14-Jun-12         6.9         37.0         19.4           DPE-1         19-Jul-12         10.9         40.9         18.6           DPE-1         19-Jul-12         10.9         40.9         18.6           DPE-1         23-Aug-12         13.6         30.9         14.4           DPE-1         26-Sep-12         6.9         30.4         19.11					
DPE-1         27-Jan-12         12.0         34.3         20.3           DPE-1         16-Feb-12         3.5         30.6         20.65           DPE-1         16-Mar-12         NA         23.0         21.14           DPE-1         27-Mar-12         10.5         29.6         20.73           DPE-1         17-Apr-12         11.3         25.5         21.05           DPE-1         17-May-12         13.1         16.0         20.9           DPE-1         31-May-12         31.4         24.0         20.12           DPE-1         31-May-12         31.4         24.0         20.12           DPE-1         14-Jun-12         6.9         37.0         19.4           DPE-1         19-Jul-12         10.9         40.9         18.6           DPE-1         19-Jul-12         10.9         40.9         18.6           DPE-1         23-Aug-12         13.6         30.9         14.4           DPE-1         26-Sep-12         6.9         30.4         19.11           DPE-1         26-Sep-12         6.2         27.0         13.65           DPE-1         21-Dec-12         66.0         31.0         17 <t< td=""><td>DPE-1</td><td></td><td>580.0</td><td>44.0</td><td></td></t<>	DPE-1		580.0	44.0	
DPE-1         16-Feb-12         3.5         30.6         20.65           DPE-1         16-Mar-12         NA         23.0         21.14           DPE-1         27-Mar-12         10.5         29.6         20.73           DPE-1         17-Apr-12         11.3         25.5         21.05           DPE-1         17-May-12         13.1         16.0         20.9           DPE-1         31-May-12         31.4         24.0         20.12           DPE-1         31-May-12         31.4         24.0         20.12           DPE-1         19-Jul-12         6.9         37.0         19.4           DPE-1         19-Jul-12         10.9         40.9         18.6           DPE-1         26-Sep-12         6.9         30.4         19.11           DPE-1         26-Sep-12         6.9         30.4         19.11	DPE-1	20-Jan-12	5.7	51.6	16.79
DPE-1         16-Mar-12         NA         23.0         21.14           DPE-1         27-Mar-12         10.5         29.6         20.73           DPE-1         17-Apr-12         11.3         25.5         21.05           DPE-1         17-May-12         13.1         16.0         20.9           DPE-1         17-May-12         13.1         16.0         20.9           DPE-1         31-May-12         31.4         24.0         20.12           DPE-1         14-Jun-12         6.9         37.0         19.4           DPE-1         19-Jul-12         10.9         40.9         18.6           DPE-1         19-Jul-12         10.9         40.9         18.6           DPE-1         23-Aug-12         13.6         30.9         14.4           DPE-1         26-Sep-12         6.9         30.4         19.11           DPE-1         26-Sep-12         6.9         30.4         19.11           DPE-1         26-Oct-12         66.0         31.0         17           DPE-1         26-Oct-12         66.0         31.0         17           DPE-1         30-Jan-13         43.4         26.0         18           DPE	DPE-1	27-Jan-12	12.0	34.3	20.3
DPE-1         27-Mar-12         10.5         29.6         20.73           DPE-1         17-Apr-12         11.3         25.5         21.05           DPE-1         17-May-12         13.1         16.0         20.9           DPE-1         31-May-12         31.4         24.0         20.12           DPE-1         14-Jun-12         6.9         37.0         19.4           DPE-1         19-Jul-12         10.9         40.9         18.6           DPE-1         23-Aug-12         13.6         30.9         14.4           DPE-1         23-Aug-12         6.9         30.4         19.11           DPE-1         26-Sep-12         6.9         30.4         19.11           DPE-1         26-Oct-12         6.2         27.0         13.65           DPE-1         21-Dec-12         66.0         31.0         17           DPE-1         21-Dec-12         66.0         31.0         17           DPE-1         30-Jan-13         43.4         26.0         18           DPE-1         33-Feb-13         64.8         NR         NR           DPE-1         25-Feb-13         10.8         36.0         20.35           DPE-1	DPE-1	16-Feb-12	3.5	30.6	20.65
DPE-1         17-Apr-12         11.3         25.5         21.05           DPE-1         17-May-12         13.1         16.0         20.9           DPE-1         31-May-12         31.4         24.0         20.12           DPE-1         14-Jun-12         6.9         37.0         19.4           DPE-1         19-Jul-12         10.9         40.9         18.6           DPE-1         23-Aug-12         13.6         30.9         14.4           DPE-1         26-Sep-12         6.9         30.4         19.11           DPE-1         26-Oct-12         6.2         27.0         13.65           DPE-1         21-Dec-12         66.0         31.0         17           DPE-1         21-Dec-12         66.0         31.0         17           DPE-1         4-Jan-13         42.7         NR         NR           DPE-1         30-Jan-13         43.4         26.0         18           DPE-1         35-Feb-13         64.8         NR         NR           DPE-1         25-Feb-13         10.8         36.0         20.35           DPE-1         21-Mar-13         10.6         37.0         18.2           DPE-1	DPE-1	16-Mar-12	NA	23.0	21.14
DPE-1         17-May-12         13.1         16.0         20.9           DPE-1         31-May-12         31.4         24.0         20.12           DPE-1         14-Jun-12         6.9         37.0         19.4           DPE-1         19-Jul-12         10.9         40.9         18.6           DPE-1         23-Aug-12         13.6         30.9         14.4           DPE-1         26-Sep-12         6.9         30.4         19.11           DPE-1         26-Oct-12         6.2         27.0         13.65           DPE-1         21-Dec-12         66.0         31.0         17           DPE-1         21-Dec-12         66.0         31.0         17           DPE-1         4-Jan-13         42.7         NR         NR           DPE-1         30-Jan-13         43.4         26.0         18           DPE-1         33-Jan-13         43.4         26.0         18           DPE-1         13-Feb-13         64.8         NR         NR           DPE-1         13-Feb-13         10.8         36.0         20.35           DPE-1         25-Feb-13         10.8         36.0         20.35           DPE-1	DPE-1	27-Mar-12	10.5	29.6	20.73
DPE-1         31-May-12         31.4         24.0         20.12           DPE-1         14-Jun-12         6.9         37.0         19.4           DPE-1         19-Jul-12         10.9         40.9         18.6           DPE-1         23-Aug-12         13.6         30.9         14.4           DPE-1         26-Sep-12         6.9         30.4         19.11           DPE-1         26-Oct-12         6.2         27.0         13.65           DPE-1         21-Dec-12         66.0         31.0         17           DPE-1         21-Dec-12         66.0         31.0         17           DPE-1         24-Jan-13         42.7         NR         NR           DPE-1         30-Jan-13         43.4         26.0         18           DPE-1         13-Feb-13         64.8         NR         NR           DPE-1         25-Feb-13         10.8         36.0         20.35           DPE-1         21-Mar-13         10.6         37.0         18.2           DPE-1         23-May-13         18.6         30.6         18.8           DPE-1         26-Jun-13         11.3         27.0         20           DPE-1	DPE-1	17-Apr-12	11.3	25.5	21.05
DPE-1         14-Jun-12         6.9         37.0         19.4           DPE-1         19-Jul-12         10.9         40.9         18.6           DPE-1         23-Aug-12         13.6         30.9         14.4           DPE-1         26-Sep-12         6.9         30.4         19.11           DPE-1         26-Oct-12         6.2         27.0         13.65           DPE-1         21-Dec-12         66.0         31.0         17           DPE-1         4-Jan-13         42.7         NR         NR           DPE-1         30-Jan-13         43.4         26.0         18           DPE-1         13-Feb-13         64.8         NR         NR           DPE-1         13-Feb-13         64.8         NR         NR           DPE-1         25-Feb-13         10.8         36.0         20.35           DPE-1         21-Mar-13         10.6         37.0         18.2           DPE-1         23-May-13         18.6         30.6         18.8           DPE-1         26-Jun-13         11.3         27.0         20           DPE-1         26-Aug-13         0.3         184.3         16.98           DPE-1					
DPE-1         19-Jul-12         10.9         40.9         18.6           DPE-1         23-Aug-12         13.6         30.9         14.4           DPE-1         26-Sep-12         6.9         30.4         19.11           DPE-1         26-Oct-12         6.2         27.0         13.65           DPE-1         21-Dec-12         66.0         31.0         17           DPE-1         21-Dec-12         66.0         31.0         17           DPE-1         4-Jan-13         42.7         NR         NR           DPE-1         30-Jan-13         43.4         26.0         18           DPE-1         13-Feb-13         64.8         NR         NR           DPE-1         13-Feb-13         64.8         NR         NR           DPE-1         25-Feb-13         10.8         36.0         20.35           DPE-1         21-Mar-13         10.6         37.0         18.2           DPE-1         23-May-13         18.6         30.6         18.8           DPE-1         26-Jun-13         11.3         27.0         20           DPE-1         26-Aug-13         0.3         184.3         16.98           DPE-1					
DPE-1         23-Aug-12         13.6         30.9         14.4           DPE-1         26-Sep-12         6.9         30.4         19.11           DPE-1         26-Oct-12         6.2         27.0         13.65           DPE-1         21-Dec-12         66.0         31.0         17           DPE-1         4-Jan-13         42.7         NR         NR           DPE-1         30-Jan-13         43.4         26.0         18           DPE-1         13-Feb-13         64.8         NR         NR           DPE-1         25-Feb-13         10.8         36.0         20.35           DPE-1         21-Mar-13         10.6         37.0         18.2           DPE-1         23-May-13         18.6         30.6         18.8           DPE-1         26-Jun-13         11.3         27.0         20           DPE-1         26-Aug-13         0.3         184.3         16.98           DPE-1         13-Oct-15         54.2         35.0         20           DPE-1         14-Dec-15         45.3         55.0         17.91           DPE-1         12-Jan-16         45.6         55.0         18.94           DPE-1					
DPE-1         26-Sep-12         6.9         30.4         19.11           DPE-1         26-Oct-12         6.2         27.0         13.65           DPE-1         21-Dec-12         66.0         31.0         17           DPE-1         4-Jan-13         42.7         NR         NR           DPE-1         30-Jan-13         43.4         26.0         18           DPE-1         13-Feb-13         64.8         NR         NR           DPE-1         25-Feb-13         10.8         36.0         20.35           DPE-1         25-Feb-13         10.6         37.0         18.2           DPE-1         21-Mar-13         10.6         37.0         18.2           DPE-1         23-May-13         18.6         30.6         18.8           DPE-1         26-Jun-13         11.3         27.0         20           DPE-1         26-Aug-13         0.3         184.3         16.98           DPE-1         13-Oct-15         54.2         35.0         20           DPE-1         14-Dec-15         45.3         55.0         17.91           DPE-1         12-Jan-16         45.6         55.0         18.94           DPE-1					
DPE-1         26-Oct-12         6.2         27.0         13.65           DPE-1         21-Dec-12         66.0         31.0         17           DPE-1         4-Jan-13         42.7         NR         NR           DPE-1         30-Jan-13         43.4         26.0         18           DPE-1         13-Feb-13         64.8         NR         NR           DPE-1         25-Feb-13         10.8         36.0         20.35           DPE-1         25-Feb-13         10.6         37.0         18.2           DPE-1         21-Mar-13         10.6         37.0         18.2           DPE-1         23-May-13         18.6         30.6         18.8           DPE-1         26-Jun-13         11.3         27.0         20           DPE-1         26-Aug-13         0.3         184.3         16.98           DPE-1         13-Oct-15         54.2         35.0         20           DPE-1         14-Dec-15         45.3         55.0         17.91           DPE-1         12-Jan-16         45.6         55.0         18.94           DPE-1         23-Feb-16         25.0         55.0         19.48           DPE-1		)			
DPE-1         21-Dec-12         66.0         31.0         17           DPE-1         4-Jan-13         42.7         NR         NR           DPE-1         30-Jan-13         43.4         26.0         18           DPE-1         13-Feb-13         64.8         NR         NR           DPE-1         25-Feb-13         10.8         36.0         20.35           DPE-1         21-Mar-13         10.6         37.0         18.2           DPE-1         23-May-13         18.6         30.6         18.8           DPE-1         26-Jun-13         11.3         27.0         20           DPE-1         26-Aug-13         0.3         184.3         16.98           DPE-1         13-Oct-15         54.2         35.0         20           DPE-1         13-Oct-15         54.2         35.0         20           DPE-1         14-Dec-15         45.3         55.0         17.91           DPE-1         12-Jan-16         45.6         55.0         18.94           DPE-1         23-Feb-16         25.0         55.0         19.48           DPE-1         30-Mar-16         31.5         55.0         19.64           DPE-1					
DPE-1         4-Jan-13         42.7         NR         NR           DPE-1         30-Jan-13         43.4         26.0         18           DPE-1         13-Feb-13         64.8         NR         NR           DPE-1         25-Feb-13         10.8         36.0         20.35           DPE-1         21-Mar-13         10.6         37.0         18.2           DPE-1         23-May-13         18.6         30.6         18.8           DPE-1         26-Jun-13         11.3         27.0         20           DPE-1         26-Aug-13         0.3         184.3         16.98           DPE-1         13-Oct-15         54.2         35.0         20           DPE-1         13-Oct-15         54.2         35.0         20           DPE-1         14-Dec-15         45.3         55.0         17.91           DPE-1         12-Jan-16         45.6         55.0         18.94           DPE-1         23-Feb-16         25.0         55.0         19.48           DPE-1         30-Mar-16         31.5         55.0         19.64           DPE-1         20-Apr-16         21.8         50.0         20					
DPE-1         30-Jan-13         43.4         26.0         18           DPE-1         13-Feb-13         64.8         NR         NR           DPE-1         25-Feb-13         10.8         36.0         20.35           DPE-1         25-Feb-13         10.6         37.0         18.2           DPE-1         23-May-13         18.6         30.6         18.8           DPE-1         26-Jun-13         11.3         27.0         20           DPE-1         26-Aug-13         0.3         184.3         16.98           DPE-1         13-Oct-15         54.2         35.0         20           DPE-1         14-Dec-15         45.3         55.0         17.91           DPE-1         12-Jan-16         45.6         55.0         18.94           DPE-1         23-Feb-16         25.0         55.0         19.48           DPE-1         30-Mar-16         31.5         55.0         19.64           DPE-1         20-Apr-16         21.8         50.0         20					
DPE-1         13-Feb-13         64.8         NR         NR           DPE-1         25-Feb-13         10.8         36.0         20.35           DPE-1         21-Mar-13         10.6         37.0         18.2           DPE-1         23-May-13         18.6         30.6         18.8           DPE-1         26-Jun-13         11.3         27.0         20           DPE-1         26-Aug-13         0.3         184.3         16.98           DPE-1         13-Oct-15         54.2         35.0         20           DPE-1         14-Dec-15         45.3         55.0         17.91           DPE-1         12-Jan-16         45.6         55.0         18.94           DPE-1         23-Feb-16         25.0         55.0         19.48           DPE-1         30-Mar-16         31.5         55.0         19.64           DPE-1         20-Apr-16         21.8         50.0         20					
DPE-1         25-Feb-13         10.8         36.0         20.35           DPE-1         21-Mar-13         10.6         37.0         18.2           DPE-1         23-May-13         18.6         30.6         18.8           DPE-1         26-Jun-13         11.3         27.0         20           DPE-1         26-Aug-13         0.3         184.3         16.98           DPE-1         13-Oct-15         54.2         35.0         20           DPE-1         14-Dec-15         45.3         55.0         17.91           DPE-1         12-Jan-16         45.6         55.0         18.94           DPE-1         23-Feb-16         25.0         55.0         19.48           DPE-1         30-Mar-16         31.5         55.0         19.64           DPE-1         20-Apr-16         21.8         50.0         20					
DPE-1         21-Mar-13         10.6         37.0         18.2           DPE-1         23-May-13         18.6         30.6         18.8           DPE-1         26-Jun-13         11.3         27.0         20           DPE-1         26-Aug-13         0.3         184.3         16.98           DPE-1         13-Oct-15         54.2         35.0         20           DPE-1         14-Dec-15         45.3         55.0         17.91           DPE-1         12-Jan-16         45.6         55.0         18.94           DPE-1         23-Feb-16         25.0         55.0         19.48           DPE-1         30-Mar-16         31.5         55.0         19.64           DPE-1         20-Apr-16         21.8         50.0         20					
DPE-1         23-May-13         18.6         30.6         18.8           DPE-1         26-Jun-13         11.3         27.0         20           DPE-1         26-Aug-13         0.3         184.3         16.98           DPE-1         13-Oct-15         54.2         35.0         20           DPE-1         14-Dec-15         45.3         55.0         17.91           DPE-1         12-Jan-16         45.6         55.0         18.94           DPE-1         23-Feb-16         25.0         55.0         19.48           DPE-1         30-Mar-16         31.5         55.0         19.64           DPE-1         20-Apr-16         21.8         50.0         20					
DPE-1         26-Jun-13         11.3         27.0         20           DPE-1         26-Aug-13         0.3         184.3         16.98           DPE-1         13-Oct-15         54.2         35.0         20           DPE-1         14-Dec-15         45.3         55.0         17.91           DPE-1         12-Jan-16         45.6         55.0         18.94           DPE-1         23-Feb-16         25.0         55.0         19.48           DPE-1         30-Mar-16         31.5         55.0         19.64           DPE-1         20-Apr-16         21.8         50.0         20					
DPE-1         26-Aug-13         0.3         184.3         16.98           DPE-1         13-Oct-15         54.2         35.0         20           DPE-1         14-Dec-15         45.3         55.0         17.91           DPE-1         12-Jan-16         45.6         55.0         18.94           DPE-1         23-Feb-16         25.0         55.0         19.48           DPE-1         30-Mar-16         31.5         55.0         19.64           DPE-1         20-Apr-16         21.8         50.0         20					
DPE-1         13-Oct-15         54.2         35.0         20           DPE-1         14-Dec-15         45.3         55.0         17.91           DPE-1         12-Jan-16         45.6         55.0         18.94           DPE-1         23-Feb-16         25.0         55.0         19.48           DPE-1         30-Mar-16         31.5         55.0         19.64           DPE-1         20-Apr-16         21.8         50.0         20					
DPE-1         14-Dec-15         45.3         55.0         17.91           DPE-1         12-Jan-16         45.6         55.0         18.94           DPE-1         23-Feb-16         25.0         55.0         19.48           DPE-1         30-Mar-16         31.5         55.0         19.64           DPE-1         20-Apr-16         21.8         50.0         20		0			
DPE-1     12-Jan-16     45.6     55.0     18.94       DPE-1     23-Feb-16     25.0     55.0     19.48       DPE-1     30-Mar-16     31.5     55.0     19.64       DPE-1     20-Apr-16     21.8     50.0     20					
DPE-1         23-Feb-16         25.0         55.0         19.48           DPE-1         30-Mar-16         31.5         55.0         19.64           DPE-1         20-Apr-16         21.8         50.0         20					
DPE-1         30-Mar-16         31.5         55.0         19.64           DPE-1         20-Apr-16         21.8         50.0         20	DPE-1	23-Feb-16	25.0	55.0	19.48
DPE-1 20-Apr-16 21.8 50.0 20					
DPE-1 18-May-16 8.3 50.0 20.45	DPE-1		21.8	50.0	20
	DPE-1	18-May-16	8.3	50.0	20.45

			DPE	DPE Pump
			Exhaust	Inlet
		PID	Flow Rate	Vacuum (in.
Well ID	Date	(ppm)	(scfm)	Hg)
DPE-2	27-Oct-09	50.6	40.0	19.00
DPE-2	16-Nov-09	0.0	39.0	22.13
DPE-2	17-Dec-09	11.8	NR	NR
DPE-2	28-Dec-09	720.0	NR	NR
DPE-2	14-Jan-10	NR	NR	NR
DPE-2	22-Feb-10	27.1	45.0	21.5
DPE-2	25-Mar-10	10.5	50.0	22
DPE-2	16-Apr-10	6.0	50.0	21
DPE-2	12-May-10	10.1	55.0	22
DPE-2	17-Jun-10	8.5	35.0	20
DPE-2	26-Jul-10	0.6	40.0	22
DPE-2	27-Sep-10	>4000	52.4	20.98
DPE-2	18-Oct-10	15.7	55.0	19
DPE-2	22-Dec-10	2.8	70.0	22.14
DPE-2	6-Jan-11	23.6	76.0	20.2
DPE-2	20-Jan-11	2.6	55.0	21.5
DPE-2	27-Feb-11	15.1	64.0	20.8
DPE-2	7-Mar-11	19.8	50.0	21.34
DPE-2	18-Mar-11	2.1 1.2	55.0	21.2
DPE-2	23-Mar-11 22-Apr-11		40.0	21
DPE-2	19-May-11	2.0 7.1	39.0	21.3
DPE-2	19-May-11 16-Jun-11	21.0	45.0 38.1	21 22.5
DPE-2	25-Jul-11	13.5	38.1	21.43
DPE-2	28-Aug-11	10.2	45.0	21.43
DPE-2	29-Sep-11	11.8	46.0	22.63
DPE-2	27-Oct-11	177.0	38.0	22
DPE-2	21-Nov-11	365.0	39.0	22.4
DPE-2	20-Jan-12	7.2	46.3	16.76
DPE-2	27-Jan-12	6.4	29.2	20.19
DPE-2	16-Feb-12	6.0	26.7	21.6
DPE-2	16-Mar-12	NA	30.0	21.5
DPE-2	27-Mar-12	14.5	25.5	21.5
DPE-2	17-Apr-12	6.4	21.6	21.69
DPE-2	17-May-12	12.1	20.4	20.87
DPE-2	31-May-12	21.2	20.0	20
DPE-2	14-Jun-12	5.0	29.0	19.7
DPE-2	19-Jul-12	5.4	31.5	18.7
DPE-2	23-Aug-12	3.6	36.0	10.8
DPE-2	26-Sep-12	4.3	31.3	19.18
DPE-2	26-Oct-12	4.6	29.0	16.8
DPE-2	21-Dec-12	56.0	32.0	17 ND
DPE-2	4-Jan-13	48.1	NR 25.0	NR 10.5
DPE-2	30-Jan-13	9.4	25.0	19.5
DPE-2 DPE-2	13-Feb-13	25.7 5.8	NR 29.0	NR 20.5
DPE-2 DPE-2	25-Feb-13 21-Mar-13	8.2	26.0	20.5 19.7
DPE-2	23-May-13	12.7	24.7	19.7
DPE-2	26-Jun-13	3.0	34.0	20.7
DPE-2	26-Aug-13	0.4	186.1	15.12
DPE-2	13-Oct-15	20.6	35.0	20
DPE-2	14-Dec-15	21.6	55.0	17.75
DPE-2	12-Jan-16	20.1	55.0	18.77
DPE-2	23-Feb-16	17.3	55.0	19.2
DPE-2	30-Mar-16	16.6	60.0	19.34
DPE-2	20-Apr-16	6.2	55.0	19.7
DPE-2	18-May-16	2.9	55.0	20.11
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PID				DPE	DPE Pump
Well ID         Date         (ppm)         (scfm)         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           DPE-3         22-Feb-10         43.4         70.0         19           DPE-3         12-May-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         17-Jun-10         18.1         55.0         18           DPE-3         12-Sep-10         >3260         68.6         19.5           DPE-3         18-Oct-10         36.4         85.0         17.5           DPE-3         18-Mar-11         23.3         38.0         21.75           DPE-3					•
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         28-Dec-09         22.8         NR         NR           DPE-3         14-Jan-10         NR         NR         NR           DPE-3         12-May-10         NR         NR         NR           DPE-3         12-May-10         17.5         75.0         18           DPE-3         16-Apr-10         17.5         75.0         18           DPE-3         12-May-10         23.7         80.0         20           DPE-3         12-May-10         0.0         65.0         17.5           DPE-3         12-Jun-10         0.0         65.0         17.5           DPE-3         12-Jun-10         36.4         85.0         17.5           DPE-3         12-Jun-11         4.5         77.0         18.6           DPE-3         12-Dec-10         28.2         78.0         18.5           DPE-3         27-			PID	Flow Rate	Vacuum (in.
DPE-3         16-Nov-09         1,600.0         65.0         18.94           DPE-3         17-Dec-09         57.5         NR         NR           DPE-3         14-Dec-09         22.8         NR         NR           DPE-3         14-Jan-10         NR         NR         NR           DPE-3         14-Jan-10         NR         NR         NR           DPE-3         12-May-10         31.4         70.0         19.5           DPE-3         16-Apr-10         17.5         75.0         18           DPE-3         16-Apr-10         17.5         75.0         18           DPE-3         17-Jun-10         18.1         55.0         18           DPE-3         27-Sep-10         93260         68.6         19.5           DPE-3         27-Sep-10         33260         68.6         19.5           DPE-3         18-Oct-10         36.4         85.0         17.5           DPE-3         18-Oct-10         36.4         85.0         17.5           DPE-3         18-Mar-11         23.9         109.0         18.5           DPE-3         22-Dec-10         28.2         78.0         21.75           DPE-3	Well ID	Date	(ppm)	(scfm)	Hg)
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         19.5           DPE-3         16-Apr-10         17.5         75.0         18           DPE-3         16-Apr-10         17.5         75.0         18           DPE-3         17-Jun-10         18.1         55.0         18           DPE-3         17-Jun-10         18.1         55.0         18           DPE-3         26-Jul-10         0.0         65.0         17.5           DPE-3         26-Jul-10         36.4         85.0         17.5           DPE-3         18-Oct-10         36.4         85.0         17.5           DPE-3         22-Dec-10         28.2         78.0         21.75           DPE-3         22-Jan-11         23.3         82.0         21.75           DPE-3         27-Mar-11         23.3         82.0         18.5           DPE-3	DPE-3	27-Oct-09	15.7	73.0	15.00
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         22-Feb-10         43.4         70.0         19           DPE-3         12-May-10         17.5         75.0         18           DPE-3         12-May-10         23.7         80.0         20           DPE-3         12-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         27-Sep-10         326.0         68.6         19.5           DPE-3         18-Oct-10         36.4         85.0         21.75           DPE-3         22-Dec-10         28.2         78.0         21.75           DPE-3         22-Dec-10         28.2         78.0         21.75           DPE-3         29-Jan-11         4.5         77.0         18.6           DPE-3         27-Feb-11         23.3         82.0         18.8           DPE-3	DPE-3	16-Nov-09	1,600.0	65.0	18.94
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         12-May-10         0.0         65.0         17.5           DPE-3         26-Jul-10         0.0         65.0         17.5           DPE-3         22-Dec-10         0.0         65.0         17.5           DPE-3         27-Sep-10         32.60         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         22-Dec-10         28.2         78.0         21.75           DPE-3         20-Jan-11         4.5         77.0         18.6           DPE-3         27-Feb-11         23.3         82.0         18.8           DPE-3         18-Mar-11         25.6         55.0         20.1           DPE-3	DPE-3	17-Dec-09	57.5	NR	NR
DPE-3         22-Feb-10         43.4         70.0         19           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         17-Jun-10         18.1         55.0         18           DPE-3         26-Jul-10         0.0         65.0         17.5           DPE-3         26-Jul-10         0.0         65.0         17.5           DPE-3         18-Oct-10         36.4         85.0         17.5           DPE-3         18-Oct-10         36.4         85.0         17.5           DPE-3         18-Oct-10         36.4         85.0         17.5           DPE-3         22-Dec-10         28.2         78.0         21.75           DPE-3         22-Jan-11         23.9         109.0         18.5           DPE-3         20-Jan-11         23.3         82.0         18.8           DPE-3         18-Mar-11         25.6         55.0         20.1           DPE-3	DPE-3	28-Dec-09	22.8	NR	NR
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         26-Jul-10         36.4         85.0         17.5           DPE-3         18-Oct-10         36.4         85.0         17.5           DPE-3         18-G-De-11         23.9         109.0         18.5           DPE-3         20-Jan-11         4.5         77.0         18.6           DPE-3         27-Mar-11         23.3         82.0         18.8           DPE-3         27-Mar-11         25.6         55.0         20.1           DPE-3         18-Mar-11         8.4         65.0         18.5           DPE-3 </td <td>DPE-3</td> <td></td> <td>NR</td> <td>NR</td> <td>NR</td>	DPE-3		NR	NR	NR
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         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         18-Oct-10         36.4         85.0         17.5           DPE-3         22-Dec-10         28.2         78.0         21.75           DPE-3         22-Jan-11         4.5         77.0         18.6           DPE-3         20-Jan-11         4.5         77.0         18.6           DPE-3         27-Mar-11         23.3         82.0         18.8           DPE-3         27-Mar-11         25.6         55.0         20.1           DPE-3         18-Mar-11         8.4         65.0         18.7           DPE-3         19-May-11         8.0         65.0         18.7           DPE-3 <td>DPE-3</td> <td></td> <td></td> <td>70.0</td> <td>19.5</td>	DPE-3			70.0	19.5
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         18-Oct-10         28.2         78.0         21.75           DPE-3         22-Dec-10         28.2         78.0         21.75           DPE-3         22-Dec-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         18-Mar-11         8.4         65.0         18.5           DPE-3         19-May-11         8.0         65.0         18.5           DPE-3         19-May-11         34.0         66.0         18.5           DPE-					
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         18-Oct-10         36.4         85.0         17.5           DPE-3         22-Dec-10         28.2         78.0         21.75           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-Mar-11         25.6         55.0         20.1           DPE-3         18-Mar-11         5.8         65.0         18.7           DPE-3         18-Mar-11         5.8         65.0         18.5           DPE-3         19-May-11         30.0         65.0         19.0           DPE-3         16-Jun-11         34.0         60.1         20           DPE-3         16-Jun-11         34.0         60.1         20           DPE-3				75.0	
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         22-Dec-10         28.2         78.0         21.75           DPE-3         22-Jan-11         23.9         109.0         18.5           DPE-3         20-Jan-11         4.5         77.0         18.6           DPE-3         22-Apr-11         23.3         82.0         18.8           DPE-3         18-Mar-11         25.6         55.0         20.1           DPE-3         18-Mar-11         5.8         65.0         18.7           DPE-3         18-Mar-11         31.3         66.0         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         19-May-11         8.0         66.0         19           DPE-3         16-Jun-11         34.0         60.1         20           DPE-3					
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         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         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 </td <td></td> <td></td> <td></td> <td></td> <td></td>					
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         18-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         19-May-11         8.0         65.0         19           DPE-3         19-May-11         30.0         65.0         19           DPE-3         25-Jul-11         23.2         63.2         18.24           DPE-3         25-Jul-11         23.2         63.2         18.24           DPE-3         29-Sep-11         18.7         73.6         19.53           DPE-3<					
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         19-May-11         8.0         65.0         19           DPE-3         19-May-11         8.0         65.0         19           DPE-3         19-May-11         20.0         60.1         20           DPE-3         19-May-11         20.2         63.2         18.24           DPE-3         25-Jul-11         23.2         63.2         18.24           DPE-3         29-Sep-11         18.7         73.6         19.53           DPE-3 <td></td> <td></td> <td></td> <td></td> <td></td>					
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         7-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         27-Oct-11         201.0         70.6         19.2           DPE-3					
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         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         27-Oct-11         201.0         70.6         19.2           DPE-3					
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         19-May-11         8.0         65.0         19           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         29-Sep-11         18.7         73.6         19.2           DPE-3         27-Oct-11         201.0         70.6         19.2           DPE-3         21-Nov-11         429.0         68.0         19.6           DPE-3 <td></td> <td></td> <td></td> <td></td> <td></td>					
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         19-May-11         34.0         60.1         20           DPE-3         19-May-11         34.0         60.1         20           DPE-3         19-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         28-Aug-11         62.8         71.0         19.4           DPE-3         27-Oct-11         201.0         70.6         19.2           DPE-3         27-Oct-11         201.0         70.6         19.2           DPE-3         27-Jan-12         4.2         50.6         17.8           DPE-3         16-Feb-12         16.8         43.0         18.09           DPE-3 </td <td></td> <td></td> <td></td> <td></td> <td></td>					
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         19-Jul-11         34.0         60.1         20           DPE-3         28-Jul-11         62.8         71.0         19.4           DPE-3         28-Sep-11         18.7         73.6         19.53           DPE-3         29-Sep-11         18.7         73.6         19.53           DPE-3         27-Oct-11         201.0         70.6         19.2           DPE-3         27-Jan-12         4.2         50.6         17.8           DPE-3         27-Jan-12         4.2         50.6         17.8           DPE-3         16-Feb-12         16.8         43.0         18.09           DPE-3					
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         25-Jul-11         23.2         63.2         18.24           DPE-3         25-Jul-11         23.2         63.2         18.24           DPE-3         28-Aug-11         62.8         71.0         19.4           DPE-3         29-Sep-11         18.7         73.6         19.53           DPE-3         27-Oct-11         201.0         70.6         19.2           DPE-3         27-Mor-11         429.0         68.0         19.6           DPE-3         27-Jan-12         4.2         50.6         17.8           DPE-3         27-Jan-12         4.2         50.6         17.8           DPE-3         16-Feb-12         16.8         43.0         18.09           DPE-3         16-Mar-12         NA         44.0         18.2           D					
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         25-Jul-11         23.2         63.2         18.24           DPE-3         25-Jul-11         62.8         71.0         19.4           DPE-3         29-Sep-11         18.7         73.6         19.53           DPE-3         27-Oct-11         201.0         70.6         19.2           DPE-3         27-Nov-11         429.0         68.0         19.6           DPE-3         20-Jan-12         16.2         52.3         16.03           DPE-3         20-Jan-12         16.2         52.3         16.03           DPE-3         27-Jan-12         4.2         50.6         17.8           DPE-3         16-Feb-12         16.8         43.0         18.09           DPE-3         16-Mar-12         NA         44.0         18.5           DPE-3         17-Apr-12         22.5         35.2         18.74           <					
DPE-3         19-May-11         8.0         65.0         19           DPE-3         16-Jun-11         34.0         60.1         20           DPE-3         25-Jul-11         23.2         63.2         18.24           DPE-3         28-Aug-11         62.8         71.0         19.4           DPE-3         29-Sep-11         18.7         73.6         19.53           DPE-3         27-Oct-11         201.0         70.6         19.2           DPE-3         27-Oct-11         201.0         70.6         19.2           DPE-3         27-Oct-11         201.0         70.6         19.2           DPE-3         21-Nov-11         429.0         68.0         19.6           DPE-3         20-Jan-12         16.2         52.3         16.03           DPE-3         20-Jan-12         4.2         50.6         17.8           DPE-3         16-Feb-12         16.8         43.0         18.09           DPE-3         16-Feb-12         16.8         43.0         18.5           DPE-3         16-Mar-12         NA         44.0         18.5           DPE-3         17-Apr-12         22.5         35.2         18.74           <					
DPE-3         16-Jun-11         34.0         60.1         20           DPE-3         25-Jul-11         23.2         63.2         18.24           DPE-3         28-Aug-11         62.8         71.0         19.4           DPE-3         29-Sep-11         18.7         73.6         19.53           DPE-3         27-Oct-11         201.0         70.6         19.2           DPE-3         27-Oct-11         201.0         70.6         19.2           DPE-3         27-Oct-11         201.0         70.6         19.2           DPE-3         21-Nov-11         429.0         68.0         19.6           DPE-3         20-Jan-12         16.2         52.3         16.03           DPE-3         20-Jan-12         4.2         50.6         17.8           DPE-3         16-Feb-12         16.8         43.0         18.09           DPE-3         16-Mar-12         NA         44.0         18.5           DPE-3         16-Mar-12         NA         44.0         18.2           DPE-3         17-Apr-12         22.5         35.2         18.74           DPE-3         17-Apr-12         22.5         35.2         18.74					
DPE-3         25-Jul-11         23.2         63.2         18.24           DPE-3         28-Aug-11         62.8         71.0         19.4           DPE-3         29-Sep-11         18.7         73.6         19.53           DPE-3         27-Oct-11         201.0         70.6         19.2           DPE-3         21-Nov-11         429.0         68.0         19.6           DPE-3         20-Jan-12         16.2         52.3         16.03           DPE-3         20-Jan-12         4.2         50.6         17.8           DPE-3         27-Jan-12         4.2         50.6         17.8           DPE-3         16-Feb-12         16.8         43.0         18.09           DPE-3         16-Mar-12         NA         44.0         18.5           DPE-3         17-Mar-12         20.4         41.0         18.2           DPE-3         17-Apr-12         22.5         35.2         18.74           DPE-3         17-Apr-12         22.5         35.2         18.74           DPE-3         17-May-12         16.4         31.3         17.2           DPE-3         17-May-12         16.4         31.0         18.8					
DPE-3         28-Aug-11         62.8         71.0         19.4           DPE-3         29-Sep-11         18.7         73.6         19.53           DPE-3         27-Oct-11         201.0         70.6         19.2           DPE-3         21-Nov-11         429.0         68.0         19.6           DPE-3         20-Jan-12         16.2         52.3         16.03           DPE-3         27-Jan-12         4.2         50.6         17.8           DPE-3         16-Feb-12         16.8         43.0         18.09           DPE-3         16-Mar-12         NA         44.0         18.5           DPE-3         17-Mar-12         20.4         41.0         18.2           DPE-3         17-Apr-12         22.5         35.2         18.74           DPE-3         17-Apr-12         25.5         31.0         18.8           DPE-3         14-Jun-12         15.6         49.2         18.3					
DPE-3         29-Sep-11         18.7         73.6         19.53           DPE-3         27-Oct-11         201.0         70.6         19.2           DPE-3         21-Nov-11         429.0         68.0         19.6           DPE-3         20-Jan-12         16.2         52.3         16.03           DPE-3         27-Jan-12         4.2         50.6         17.8           DPE-3         16-Feb-12         16.8         43.0         18.09           DPE-3         16-Feb-12         NA         44.0         18.5           DPE-3         16-Mar-12         NA         44.0         18.5           DPE-3         17-Apr-12         20.4         41.0         18.2           DPE-3         17-Apr-12         20.5         35.2         18.74           DPE-3         17-Apr-12         22.5         35.2         18.74           DPE-3         17-Apr-12         20.5         35.2         18.74           DPE-3         17-Apr-12         21.5         35.2         18.74           DPE-3         17-Apr-12         25.5         35.2         18.74           DPE-3         14-Jun-12         15.8         46.0         19					
DPE-3         27-Oct-11         201.0         70.6         19.2           DPE-3         21-Nov-11         429.0         68.0         19.6           DPE-3         20-Jan-12         16.2         52.3         16.03           DPE-3         27-Jan-12         4.2         50.6         17.8           DPE-3         16-Feb-12         16.8         43.0         18.09           DPE-3         16-Feb-12         NA         44.0         18.5           DPE-3         16-Mar-12         NA         44.0         18.5           DPE-3         27-Mar-12         20.4         41.0         18.2           DPE-3         17-Apr-12         22.5         35.2         18.74           DPE-3         17-May-12         16.4         31.3         17.2           DPE-3         17-May-12         16.4         31.3         17.2           DPE-3         14-Jun-12         15.8         46.0         19           DPE-3         14-Jun-12         15.8         46.0         19           DPE-3         19-Jul-12         15.6         49.2         18.3           DPE-3         26-Sep-12         11.6         45.8         19.3           DP					
DPE-3         21-Nov-11         429.0         68.0         19.6           DPE-3         20-Jan-12         16.2         52.3         16.03           DPE-3         27-Jan-12         4.2         50.6         17.8           DPE-3         16-Feb-12         16.8         43.0         18.09           DPE-3         16-Mar-12         NA         44.0         18.5           DPE-3         27-Mar-12         20.4         41.0         18.2           DPE-3         17-Apr-12         22.5         35.2         18.74           DPE-3         17-May-12         16.4         31.3         17.2           DPE-3         17-May-12         16.4         31.3         17.2           DPE-3         17-May-12         54.5         31.0         18.8           DPE-3         14-Jun-12         15.8         46.0         19           DPE-3         14-Jun-12         15.6         49.2         18.3           DPE-3         19-Jul-12         15.6         49.2         18.3           DPE-3         19-Jul-12         15.6         49.2         18.3           DPE-3         26-Sep-12         11.6         45.8         19.3 <td< td=""><td></td><td></td><td></td><td></td><td></td></td<>					
DPE-3         20-Jan-12         16.2         52.3         16.03           DPE-3         27-Jan-12         4.2         50.6         17.8           DPE-3         16-Feb-12         16.8         43.0         18.09           DPE-3         16-Mar-12         NA         44.0         18.5           DPE-3         27-Mar-12         20.4         41.0         18.2           DPE-3         17-Apr-12         22.5         35.2         18.74           DPE-3         17-May-12         16.4         31.3         17.2           DPE-3         17-May-12         54.5         31.0         18.8           DPE-3         31-May-12         54.5         31.0         18.8           DPE-3         14-Jun-12         15.8         46.0         19           DPE-3         19-Jul-12         15.6         49.2         18.3           DPE-3         19-Jul-12         15.6         49.2         18.3           DPE-3         29-May-12         11.4         33.0         10.8           DPE-3         29-May-12         11.4         33.0         10.8           DPE-3         26-Oct-12         12.2         40.9         14.2					
DPE-3         27-Jan-12         4.2         50.6         17.8           DPE-3         16-Feb-12         16.8         43.0         18.09           DPE-3         16-Mar-12         NA         44.0         18.5           DPE-3         27-Mar-12         20.4         41.0         18.2           DPE-3         17-Apr-12         22.5         35.2         18.74           DPE-3         17-May-12         16.4         31.3         17.2           DPE-3         17-May-12         54.5         31.0         18.8           DPE-3         31-May-12         54.5         31.0         18.8           DPE-3         14-Jun-12         15.8         46.0         19           DPE-3         19-Jul-12         15.6         49.2         18.3           DPE-3         19-Jul-12         15.6         49.2         18.3           DPE-3         19-Jul-12         15.6         49.2         18.3           DPE-3         26-Sep-12         11.4         33.0         10.8           DPE-3         26-Sep-12         11.6         45.8         19.3           DPE-3         26-Oct-12         12.2         40.9         14.2           D		_			
DPE-3         16-Feb-12         16.8         43.0         18.09           DPE-3         16-Mar-12         NA         44.0         18.5           DPE-3         27-Mar-12         20.4         41.0         18.2           DPE-3         17-Apr-12         22.5         35.2         18.74           DPE-3         17-Apr-12         22.5         35.2         18.74           DPE-3         17-May-12         16.4         31.3         17.2           DPE-3         31-May-12         54.5         31.0         18.8           DPE-3         14-Jun-12         15.8         46.0         19           DPE-3         19-Jul-12         15.6         49.2         18.3           DPE-3         19-Jul-12         15.6         49.2         18.3           DPE-3         29-May-12         11.4         33.0         10.8           DPE-3         26-Sep-12         11.6         45.8         19.3           DPE-3         26-Oct-12         12.2         40.9         14.2           DPE-3         26-Oct-12         97.0         48.0         18           DPE-3         1-Apr-13         21.7         NR         NR           DPE-3<					
DPE-3         16-Mar-12         NA         44.0         18.5           DPE-3         27-Mar-12         20.4         41.0         18.2           DPE-3         17-Apr-12         22.5         35.2         18.74           DPE-3         17-Apr-12         16.4         31.3         17.2           DPE-3         17-May-12         16.4         31.3         17.2           DPE-3         31-May-12         54.5         31.0         18.8           DPE-3         14-Jun-12         15.8         46.0         19           DPE-3         19-Jul-12         15.6         49.2         18.3           DPE-3         19-Jul-12         15.6         49.2         18.3           DPE-3         23-Aug-12         11.4         33.0         10.8           DPE-3         26-Sep-12         11.6         45.8         19.3           DPE-3         26-Oct-12         12.2         40.9         14.2           DPE-3         21-Dec-12         97.0         48.0         18           DPE-3         21-Dec-12         97.0         48.0         18           DPE-3         1-Apr-13         21.7         NR         NR           DPE-3					
DPE-3         27-Mar-12         20.4         41.0         18.2           DPE-3         17-Apr-12         22.5         35.2         18.74           DPE-3         17-Apr-12         16.4         31.3         17.2           DPE-3         31-May-12         54.5         31.0         18.8           DPE-3         14-Jun-12         15.8         46.0         19           DPE-3         19-Jul-12         15.6         49.2         18.3           DPE-3         23-Aug-12         11.4         33.0         10.8           DPE-3         26-Sep-12         11.6         45.8         19.3           DPE-3         26-Oct-12         12.2         40.9         14.2           DPE-3         21-Dec-12         97.0         48.0         18           DPE-3         1-Apr-13         21.7         NR         NR           DPE-3         1-Apr-13         21.7         NR         NR           DPE-3         13-Feb-13         50.4         NR         NR           DPE-3         13-Feb-13         27.4         44.0         20.2           DPE-3         25-Feb-13         27.4         44.0         20.2           DPE-3					
DPE-3         17-Apr-12         22.5         35.2         18.74           DPE-3         17-May-12         16.4         31.3         17.2           DPE-3         31-May-12         54.5         31.0         18.8           DPE-3         14-Jun-12         15.8         46.0         19           DPE-3         19-Jul-12         15.6         49.2         18.3           DPE-3         23-Aug-12         11.4         33.0         10.8           DPE-3         26-Sep-12         11.6         45.8         19.3           DPE-3         26-Oct-12         12.2         40.9         14.2           DPE-3         21-Dec-12         97.0         48.0         18           DPE-3         1-Apr-13         21.7         NR         NR           DPE-3         1-Apr-13         21.7         NR         NR           DPE-3         30-Jan-13         29.0         38.0         19.5           DPE-3         13-Feb-13         50.4         NR         NR           DPE-3         25-Feb-13         27.4         44.0         20.2           DPE-3         21-Mar-13         6.9         39.0         19.3           DPE-3					
DPE-3         17-May-12         16.4         31.3         17.2           DPE-3         31-May-12         54.5         31.0         18.8           DPE-3         14-Jun-12         15.8         46.0         19           DPE-3         19-Jul-12         15.6         49.2         18.3           DPE-3         23-Aug-12         11.4         33.0         10.8           DPE-3         26-Sep-12         11.6         45.8         19.3           DPE-3         26-Oct-12         12.2         40.9         14.2           DPE-3         21-Dec-12         97.0         48.0         18           DPE-3         21-Dec-12         97.0         48.0         18           DPE-3         1-Apr-13         21.7         NR         NR           DPE-3         30-Jan-13         29.0         38.0         19.5           DPE-3         13-Feb-13         50.4         NR         NR           DPE-3         25-Feb-13         27.4         44.0         20.2           DPE-3         21-Mar-13         6.9         39.0         19.3           DPE-3         22-May-13         123.0         37.0         19.4           DPE-3					
DPE-3         31-May-12         54.5         31.0         18.8           DPE-3         14-Jun-12         15.8         46.0         19           DPE-3         19-Jul-12         15.6         49.2         18.3           DPE-3         23-Aug-12         11.4         33.0         10.8           DPE-3         26-Sep-12         11.6         45.8         19.3           DPE-3         26-Oct-12         12.2         40.9         14.2           DPE-3         21-Dec-12         97.0         48.0         18           DPE-3         1-Apr-13         21.7         NR         NR           DPE-3         30-Jan-13         29.0         38.0         19.5           DPE-3         13-Feb-13         50.4         NR         NR           DPE-3         25-Feb-13         27.4         44.0         20.2           DPE-3         21-Mar-13         6.9         39.0         19.3           DPE-3         22-May-13         123.0         37.0         19.4           DPE-3         26-Jun-13         3.1         60.0         19.9           DPE-3         26-Aug-13         2.1         188.1         13.68           DPE-3					
DPE-3         14-Jun-12         15.8         46.0         19           DPE-3         19-Jul-12         15.6         49.2         18.3           DPE-3         23-Aug-12         11.4         33.0         10.8           DPE-3         26-Sep-12         11.6         45.8         19.3           DPE-3         26-Oct-12         12.2         40.9         14.2           DPE-3         21-Dec-12         97.0         48.0         18           DPE-3         21-Dec-12         97.0         48.0         18           DPE-3         1-Apr-13         21.7         NR         NR           DPE-3         30-Jan-13         29.0         38.0         19.5           DPE-3         13-Feb-13         50.4         NR         NR           DPE-3         25-Feb-13         27.4         44.0         20.2           DPE-3         21-Mar-13         6.9         39.0         19.3           DPE-3         21-Mar-13         6.9         39.0         19.3           DPE-3         26-Jun-13         3.1         60.0         19.9           DPE-3         26-Aug-13         2.1         188.1         13.68           DPE-3					
DPE-3         19-Jul-12         15.6         49.2         18.3           DPE-3         23-Aug-12         11.4         33.0         10.8           DPE-3         26-Sep-12         11.6         45.8         19.3           DPE-3         26-Oct-12         12.2         40.9         14.2           DPE-3         21-Dec-12         97.0         48.0         18           DPE-3         1-Apr-13         21.7         NR         NR           DPE-3         30-Jan-13         29.0         38.0         19.5           DPE-3         13-Feb-13         50.4         NR         NR           DPE-3         25-Feb-13         27.4         44.0         20.2           DPE-3         21-Mar-13         6.9         39.0         19.3           DPE-3         21-Mar-13         6.9         39.0         19.3           DPE-3         26-Jun-13         3.1         60.0         19.9           DPE-3         26-Aug-13         2.1         188.1         13.68           DPE-3         13-Oct-15         85.1         35.0         20           DPE-3         14-Dec-15         128.3         50.0         18.37           DPE-3		•			
DPE-3         23-Aug-12         11.4         33.0         10.8           DPE-3         26-Sep-12         11.6         45.8         19.3           DPE-3         26-Oct-12         12.2         40.9         14.2           DPE-3         21-Dec-12         97.0         48.0         18           DPE-3         1-Apr-13         21.7         NR         NR           DPE-3         30-Jan-13         29.0         38.0         19.5           DPE-3         13-Feb-13         50.4         NR         NR           DPE-3         25-Feb-13         27.4         44.0         20.2           DPE-3         21-Mar-13         6.9         39.0         19.3           DPE-3         23-May-13         123.0         37.0         19.4           DPE-3         26-Jun-13         3.1         60.0         19.9           DPE-3         26-Aug-13         2.1         188.1         13.68           DPE-3         13-Oct-15         85.1         35.0         20           DPE-3         14-Dec-15         128.3         50.0         18.37           DPE-3         12-Jan-16         60.5         50.0         19.44           DPE-3 <td></td> <td></td> <td></td> <td></td> <td></td>					
DPE-3         26-Sep-12         11.6         45.8         19.3           DPE-3         26-Oct-12         12.2         40.9         14.2           DPE-3         21-Dec-12         97.0         48.0         18           DPE-3         1-Apr-13         21.7         NR         NR           DPE-3         30-Jan-13         29.0         38.0         19.5           DPE-3         13-Feb-13         50.4         NR         NR           DPE-3         25-Feb-13         27.4         44.0         20.2           DPE-3         21-Mar-13         6.9         39.0         19.3           DPE-3         23-May-13         123.0         37.0         19.4           DPE-3         26-Jun-13         3.1         60.0         19.9           DPE-3         26-Aug-13         2.1         188.1         13.68           DPE-3         13-Oct-15         85.1         35.0         20           DPE-3         14-Dec-15         128.3         50.0         18.37           DPE-3         12-Jan-16         60.5         50.0         19.44           DPE-3         23-Feb-16         71.3         55.0         19.67           DPE-3 </td <td></td> <td></td> <td></td> <td></td> <td></td>					
DPE-3         26-Oct-12         12.2         40.9         14.2           DPE-3         21-Dec-12         97.0         48.0         18           DPE-3         1-Apr-13         21.7         NR         NR           DPE-3         30-Jan-13         29.0         38.0         19.5           DPE-3         13-Feb-13         50.4         NR         NR           DPE-3         25-Feb-13         27.4         44.0         20.2           DPE-3         21-Mar-13         6.9         39.0         19.3           DPE-3         23-May-13         123.0         37.0         19.4           DPE-3         26-Jun-13         3.1         60.0         19.9           DPE-3         26-Aug-13         2.1         188.1         13.68           DPE-3         13-Oct-15         85.1         35.0         20           DPE-3         14-Dec-15         128.3         50.0         18.37           DPE-3         12-Jan-16         60.5         50.0         19.44           DPE-3         23-Feb-16         71.3         55.0         19.67           DPE-3         20-Apr-16         37.4         55.0         20.2					
DPE-3         21-Dec-12         97.0         48.0         18           DPE-3         1-Apr-13         21.7         NR         NR           DPE-3         30-Jan-13         29.0         38.0         19.5           DPE-3         13-Feb-13         50.4         NR         NR           DPE-3         25-Feb-13         27.4         44.0         20.2           DPE-3         21-Mar-13         6.9         39.0         19.3           DPE-3         23-May-13         123.0         37.0         19.4           DPE-3         26-Jun-13         3.1         60.0         19.9           DPE-3         26-Aug-13         2.1         188.1         13.68           DPE-3         13-Oct-15         85.1         35.0         20           DPE-3         14-Dec-15         128.3         50.0         18.37           DPE-3         12-Jan-16         60.5         50.0         19.44           DPE-3         23-Feb-16         71.3         55.0         19.89           DPE-3         20-Apr-16         37.4         55.0         20.2					
DPE-3         1-Apr-13         21.7         NR         NR           DPE-3         30-Jan-13         29.0         38.0         19.5           DPE-3         13-Feb-13         50.4         NR         NR           DPE-3         25-Feb-13         27.4         44.0         20.2           DPE-3         21-Mar-13         6.9         39.0         19.3           DPE-3         23-May-13         123.0         37.0         19.4           DPE-3         26-Jun-13         3.1         60.0         19.9           DPE-3         26-Aug-13         2.1         188.1         13.68           DPE-3         13-Oct-15         85.1         35.0         20           DPE-3         14-Dec-15         128.3         50.0         18.37           DPE-3         12-Jan-16         60.5         50.0         19.44           DPE-3         23-Feb-16         71.3         55.0         19.67           DPE-3         20-Apr-16         37.4         55.0         20.2	- DDE A	04.5.40		10.0	4.0
DPE-3         30-Jan-13         29.0         38.0         19.5           DPE-3         13-Feb-13         50.4         NR         NR           DPE-3         25-Feb-13         27.4         44.0         20.2           DPE-3         21-Mar-13         6.9         39.0         19.3           DPE-3         23-May-13         123.0         37.0         19.4           DPE-3         26-Jun-13         3.1         60.0         19.9           DPE-3         26-Aug-13         2.1         188.1         13.68           DPE-3         13-Oct-15         85.1         35.0         20           DPE-3         14-Dec-15         128.3         50.0         18.37           DPE-3         12-Jan-16         60.5         50.0         19.44           DPE-3         23-Feb-16         71.3         55.0         19.67           DPE-3         30-Mar-16         19.0         55.0         19.89           DPE-3         20-Apr-16         37.4         55.0         20.2					
DPE-3         13-Feb-13         50.4         NR         NR           DPE-3         25-Feb-13         27.4         44.0         20.2           DPE-3         21-Mar-13         6.9         39.0         19.3           DPE-3         23-May-13         123.0         37.0         19.4           DPE-3         26-Jun-13         3.1         60.0         19.9           DPE-3         26-Aug-13         2.1         188.1         13.68           DPE-3         13-Oct-15         85.1         35.0         20           DPE-3         14-Dec-15         128.3         50.0         18.37           DPE-3         12-Jan-16         60.5         50.0         19.44           DPE-3         23-Feb-16         71.3         55.0         19.67           DPE-3         30-Mar-16         19.0         55.0         19.89           DPE-3         20-Apr-16         37.4         55.0         20.2					
DPE-3         25-Feb-13         27.4         44.0         20.2           DPE-3         21-Mar-13         6.9         39.0         19.3           DPE-3         23-May-13         123.0         37.0         19.4           DPE-3         26-Jun-13         3.1         60.0         19.9           DPE-3         26-Aug-13         2.1         188.1         13.68           DPE-3         13-Oct-15         85.1         35.0         20           DPE-3         14-Dec-15         128.3         50.0         18.37           DPE-3         12-Jan-16         60.5         50.0         19.44           DPE-3         23-Feb-16         71.3         55.0         19.67           DPE-3         30-Mar-16         19.0         55.0         19.89           DPE-3         20-Apr-16         37.4         55.0         20.2					
DPE-3         21-Mar-13         6.9         39.0         19.3           DPE-3         23-May-13         123.0         37.0         19.4           DPE-3         26-Jun-13         3.1         60.0         19.9           DPE-3         26-Aug-13         2.1         188.1         13.68           DPE-3         13-Oct-15         85.1         35.0         20           DPE-3         14-Dec-15         128.3         50.0         18.37           DPE-3         12-Jan-16         60.5         50.0         19.44           DPE-3         23-Feb-16         71.3         55.0         19.67           DPE-3         30-Mar-16         19.0         55.0         19.89           DPE-3         20-Apr-16         37.4         55.0         20.2	-				
DPE-3         23-May-13         123.0         37.0         19.4           DPE-3         26-Jun-13         3.1         60.0         19.9           DPE-3         26-Aug-13         2.1         188.1         13.68           DPE-3         13-Oct-15         85.1         35.0         20           DPE-3         14-Dec-15         128.3         50.0         18.37           DPE-3         12-Jan-16         60.5         50.0         19.44           DPE-3         23-Feb-16         71.3         55.0         19.67           DPE-3         30-Mar-16         19.0         55.0         19.89           DPE-3         20-Apr-16         37.4         55.0         20.2					
DPE-3         26-Jun-13         3.1         60.0         19.9           DPE-3         26-Aug-13         2.1         188.1         13.68           DPE-3         13-Oct-15         85.1         35.0         20           DPE-3         14-Dec-15         128.3         50.0         18.37           DPE-3         12-Jan-16         60.5         50.0         19.44           DPE-3         23-Feb-16         71.3         55.0         19.67           DPE-3         30-Mar-16         19.0         55.0         19.89           DPE-3         20-Apr-16         37.4         55.0         20.2					
DPE-3         26-Aug-13         2.1         188.1         13.68           DPE-3         13-Oct-15         85.1         35.0         20           DPE-3         14-Dec-15         128.3         50.0         18.37           DPE-3         12-Jan-16         60.5         50.0         19.44           DPE-3         23-Feb-16         71.3         55.0         19.67           DPE-3         30-Mar-16         19.0         55.0         19.89           DPE-3         20-Apr-16         37.4         55.0         20.2	DPE-3	26-Jun-13			19.9
DPE-3     13-Oct-15     85.1     35.0     20       DPE-3     14-Dec-15     128.3     50.0     18.37       DPE-3     12-Jan-16     60.5     50.0     19.44       DPE-3     23-Feb-16     71.3     55.0     19.67       DPE-3     30-Mar-16     19.0     55.0     19.89       DPE-3     20-Apr-16     37.4     55.0     20.2					
DPE-3     14-Dec-15     128.3     50.0     18.37       DPE-3     12-Jan-16     60.5     50.0     19.44       DPE-3     23-Feb-16     71.3     55.0     19.67       DPE-3     30-Mar-16     19.0     55.0     19.89       DPE-3     20-Apr-16     37.4     55.0     20.2	DPE-3	13-Oct-15	85.1		20
DPE-3     12-Jan-16     60.5     50.0     19.44       DPE-3     23-Feb-16     71.3     55.0     19.67       DPE-3     30-Mar-16     19.0     55.0     19.89       DPE-3     20-Apr-16     37.4     55.0     20.2	DPE-3	14-Dec-15	128.3	50.0	
DPE-3         30-Mar-16         19.0         55.0         19.89           DPE-3         20-Apr-16         37.4         55.0         20.2	DPE-3			50.0	
DPE-3 20-Apr-16 37.4 55.0 20.2	DPE-3	23-Feb-16	71.3	55.0	19.67
		30-Mar-16		55.0	19.89
DPE-3 18-May-16 14.5 50.0 20.69	DPE-3		37.4	55.0	20.2
	DPE-3	18-May-16	14.5	50.0	20.69
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			DDE	DDE Dumm
			DPE Exhaust	DPE Pump Inlet
		PID	Flow Rate	Vacuum (in.
Well ID	Date	(ppm)	(scfm)	Hg)
DPE-4			` '	O,
DPE-4	27-Oct-09 16-Nov-09	23.9 3.7	35.0 28.6	22.00 23.94
DPE-4	17-Dec-09	4,000.0	NR	23.94 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 19
DPE-4	18-Mar-11 23-Mar-11	5.9 6.2	62.0	
DPE-4	22-Apr-11	3.5	60.0 60.0	19.5 19.5
DPE-4	19-May-11	15.6	60.0	19.5
DPE-4	16-Jun-11	49.2	52.4	21
DPE-4	25-Jul-11	3.1	56.3	19.04
DPE-4	28-Aug-11	14.0	63.0	20.4
DPE-4	29-Sep-11	2.8	66.0	20.36
DPE-4	27-Oct-11	156.0	64.0	20.5
DPE-4	21-Nov-11	120.0	65.0	20
DPE-4	20-Jan-12	8.0	51.3	16.41
DPE-4	27-Jan-12	0.0	40.9	19.7
DPE-4	16-Feb-12	8.6	37.0	19.17
DPE-4	16-Mar-12	NA	35.0	19.6
DPE-4	27-Mar-12	14.6	35.0	19.4
DPE-4	17-Apr-12	13.0	31.5	19.48
DPE-4	17-May-12	0.5	60.1	14.2
DPE-4	31-May-12	6.8	27.0	19.34
DPE-4	14-Jun-12	8.5	38.0	19
DPE-4	19-Jul-12	8.5	40.9	18.04
DPE-4	23-Aug-12	3.3	34.0	12.6
DPE-4	26-Sep-12	5.0	42.0	12.45
DPE-4	26-Oct-12	0.8	30.9	17.3
DPE-4 DPE-4	21-Dec-12 4-Jan-13	51.0 30.4	43.0 NR	20 NR
DPE-4	30-Jan-13	25.0	35.0	19.7
DPE-4	13-Feb-13	46.7	NR	NR
DPE-4	25-Feb-13	12.6	40.0	20.1
DPE-4	21-Mar-13	3.2	36.0	20.1
DPE-4	23-May-13	64.3	39.0	17.2
DPE-4	26-Jun-13	1.2	56.0	20.3
DPE-4	26-Aug-13	1.4	141.6	18.82
DPE-4	13-Oct-15	45.3	30.0	21
DPE-4	14-Dec-15	31.8	50.0	19.04
DPE-4	12-Jan-16	152.5	50.0	19.85
DPE-4	23-Feb-16	38.8	50.0	20.2
DPE-4	30-Mar-16	23.7	50.0	20.41
DPE-4	20-Apr-16	19.6	50.0	20.76
DPE-4	18-May-16	12.1	50.0	20.95

			DPE	DPE Pump
			Exhaust	Inlet
		PID	Flow Rate	Vacuum (in.
Well ID	Date	(ppm)	(scfm)	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 27-Sep-10	5.7	100.0	15 15 79
DPE-5	18-Oct-10	>4000 ND	119.0 125.0	15.78 15
DPE-5	22-Dec-10			15.8
DPE-5	6-Jan-11	17.7 1.5	150.0	17
DPE-5	20-Jan-11	12.8	130.0 109.0	15.5
DPE-5	27-Feb-11	0.0	109.0	16.9
DPE-5	7-Mar-11	22.7	117.0	16.15
DPE-5	18-Mar-11	3.3	95.0	15.8
DPE-5	23-Mar-11	4.1	90.0	16.5
DPE-5	22-Apr-11	3.8	96.0	15.9
DPE-5	19-May-11	11.2	85.0	16.5
DPE-5	16-Jun-11	50.8	72.7	18
DPE-5	25-Jul-11	0.2	79.3	15.86
DPE-5	28-Aug-11	0.7	93.0	17.2
DPE-5	29-Sep-11	6.4	104.6	16.87
DPE-5	27-Oct-11	197.0	90.0	17.8
DPE-5	21-Nov-11	270.0	97.6	16.9
DPE-5	20-Jan-12	0.0	70.7	15.29
DPE-5	27-Jan-12	0.0	67.8	15.48
DPE-5	16-Feb-12	2.2	59.0	15.5
DPE-5	16-Mar-12	NA	52.0	17.6
DPE-5	27-Mar-12	3.6	58.0	15.9
DPE-5	17-Apr-12	4.2	46.9	16.6
DPE-5	17-May-12	1.2	46.0	16.12
DPE-5	31-May-12	2.1	36.0	18.5
DPE-5	14-Jun-12	2.4	60.0	15
DPE-5	19-Jul-12	3.5	60.4	16.5
DPE-5	23-Aug-12	1.1	42.0	11.6
DPE-5	26-Sep-12	1.4	59.0	17.2
DPE-5	26-Oct-12	0.0	51.0	14.2
DPE-5	21-Dec-12	14.7	65.0	19
DPE-5	4-Jan-13	9.1	NR	NR
DPE-5	30-Jan-13	4.6	50.0	19
DPE-5	13-Feb-13	5.8	NR 50.0	NR 40.0
DPE-5	25-Feb-13	2.1	59.0	18.8
DPE-5	21-Mar-13 23-May-13	0.6	46.0	19.8
DPE-5	,	16.1	52.0	19 18.1
DPE-5 DPE-5	26-Jun-13	0.0	76.0 165.3	14.49
DPE-5	26-Aug-13 13-Oct-15	24.1	60.0	17.5
DPE-5	14-Dec-15	16.9	70.0	17.5
DPE-5	12-Jan-16	21.5	75.0	15.08
DPE-5	23-Feb-16	10.0	75.0	16
DPE-5	30-Mar-16	10.0	75.0	16.72
DPE-5	20-Apr-16	0.1	75.0	16.67
DPE-5	18-May-16	5.2	80.0	16.91
5. 20	10 1114	U.L	00.0	10.01
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			DPE	DPE Pump				
			Exhaust	Inlet				
		PID	Flow Rate	Vacuum (in.				
Well ID	Date	(ppm)	(scfm)	Hg) `				
DPE-6	27-Oct-09	ND	55.0	17.00				
DPE-6	16-Nov-09	4,000.0	66.9	18.78				
DPE-6	17-Dec-09	1,680.0	NR	NR				
DPE-6	28-Dec-09	901.0	NR	NR				
DPE-6	14-Jan-10	NR	NR	NR				
DPE-6	22-Feb-10	7.1	65.0	19				
DPE-6	25-Mar-10	0.0	70.0	20				
DPE-6	16-Apr-10	4,000.0	75.0	18.1				
DPE-6	12-May-10	0.0	90.0	19				
DPE-6	17-Jun-10	0.0 4.4	50.0	19 18				
DPE-6	26-Jul-10 27-Sep-10	>4000	60.0 92.0	18.08				
DPE-6	18-Oct-10	10.2	80.0	18.5				
DPE-6	22-Dec-10	11.4	105.0	19.8				
DPE-6	6-Jan-11	2.8	110.0	19				
DPE-6	20-Jan-11	6.3	108.0	18				
DPE-6	27-Feb-11	6.2	100.0	18.1				
DPE-6	7-Mar-11	16.5	75.0	19.29				
DPE-6	18-Mar-11	2.8	65.0	19				
DPE-6	23-Mar-11	6.7	63.0	NR				
DPE-6	22-Apr-11	5.6	57.0	19.6				
DPE-6	19-May-11	7.6	60.0	19.5				
DPE-6	16-Jun-11	48.2	53.5	19				
DPE-6	25-Jul-11	2.5	56.3	19.21				
DPE-6	28-Aug-11	4.8	62.0	20.6				
DPE-6	29-Sep-11	6.6	69.8	20.26				
DPE-6	27-Oct-11	127.0	65.0	20.1				
DPE-6	21-Nov-11	40.0	62.0	20.4				
DPE-6	20-Jan-12	0.0	57.8	16.12				
DPE-6	27-Jan-12	0.0	46.7	18.49				
DPE-6	16-Feb-12	0.9	37.8	18.68				
DPE-6	16-Mar-12	NA 2.4	40.0	18.9				
DPE-6	27-Mar-12	2.1	36.0	19.1				
DPE-6	17-Apr-12 17-May-12	1.7 0.8	32.3 29.6	19.3 18.1				
DPE-6	31-May-12	1.0	28.0	18.3				
DPE-6	14-Jun-12	1.4	45.0	16.5				
DPE-6	19-Jul-12	3.7	49.6	15.7				
DPE-6	23-Aug-12	4.8	34.0	10.5				
DPE-6	26-Sep-12	1.8	46.0	17.2				
DPE-6	26-Oct-12	0.0	47.0	13.3				
DPE-6	21-Dec-12	13.7	49.0	18				
DPE-6	4-Jan-13	9.7	NR	NR				
DPE-6	30-Jan-13	2.3	37.0	18.8				
DPE-6	13-Feb-13	2.7	NR	NR				
DPE-6	25-Feb-13	1.0	45.0	18.2				
DPE-6	21-Mar-13	0.0	39.0	19.4				
DPE-6	23-May-13	11.9	37.0	19.6				
DPE-6	26-Jun-13	0.0	54.0	19				
DPE-6	26-Aug-13	0.0	139.3	18.39				
DPE-6	13-Oct-15	21.6	70.0	15				
DPE-6	14-Dec-15	12.7	80.0	12.89				
DPE-6	12-Jan-16	66.7	70.0	16.29				
DPE-6	23-Feb-16	7.3	80.0	16.84				
DPE-6	30-Mar-16	5.3	70.0	17.43				
DPE-6	20-Apr-16 18-May-16	0.5	70.0	17.61 17.91				
DPE-6	10-Way-10	3.9	70.0	17.31				
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			DPE	DPE Pump
			Exhaust	Inlet
		PID	Flow Rate	Vacuum (in.
Well ID	Date	(ppm)	(scfm)	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 16.2
DPE-7	7-Mar-11	29.1	95.0 75.0	
DPE-7	18-Mar-11 23-Mar-11	3.1 8.6	75.0 70.0	17 17.5
DPE-7	22-Apr-11	5.4	70.0	17.5
DPE-7	19-May-11	6.1	70.0	18
DPE-7	16-Jun-11	47.4	56.3	20
DPE-7	25-Jul-11	0.1	60.4	18.95
DPE-7	28-Aug-11	0.0	67.0	19.8
DPE-7	29-Sep-11	6.0	82.0	18.5
DPE-7	27-Oct-11	88.0	66.0	19.7
DPE-7	21-Nov-11	10.0	66.0	19.7
DPE-7	20-Jan-12	0.0	57.8	15.9
DPE-7	27-Jan-12	0.0	52.4	17.66
DPE-7	16-Feb-12	0.3	42.1	18.2
DPE-7	16-Mar-12	NA	46.0	17.9
DPE-7	27-Mar-12	0.2	48.0	17.4
DPE-7	17-Apr-12	0.7	34.3	18.8
DPE-7	17-May-12	0.6	32.3	17.16
DPE-7	31-May-12	0.5	30.0	18.4
DPE-7	14-Jun-12	0.8	49.0	17
DPE-7	19-Jul-12	2.2	53.5	15.72
DPE-7	23-Aug-12	1.1	30.0	11.3
DPE-7	26-Sep-12	0.2	50.0	17.3
DPE-7	26-Oct-12	0.0	47.0	13.6
DPE-7	21-Dec-12	8.7	53.0	18 ND
DPE-7	4-Jan-13	5.6	NR 40.0	NR 40.0
DPE-7	30-Jan-13	0.8	40.0	18.8
DPE-7	13-Feb-13 25-Feb-13	0.5	NR 46.0	NR 10.6
DPE-7		0.3	46.0	18.6
DPE-7	21-Mar-13 23-May-13	0.3 7.9	39.0 40.0	19.3 19.7
DPE-7	26-Jun-13	0.0	56.0	20
DPE-7	26-Aug-13	0.0	142.3	18.53
DPE-7	13-Oct-15	17.6	45.0	17.5
DPE-7	14-Dec-15	13.7	75.0	14.65
DPE-7	12-Jan-16	44.5	75.0	15.55
DPE-7	23-Feb-16	4.7	65.0	16.21
DPE-7	30-Mar-16	3.5	70.0	16.62
DPE-7	20-Apr-16	0.0	75.0	16.69
DPE-7	18-May-16	2.6	80.0	17.07
	, ,			
	•		•	•

			DPE	DPE Pump
			Exhaust	Inlet
		PID	Flow Rate	Vacuum (in.
Well ID	Date	(ppm)	(scfm)	Hg)
DPE-8	27-Oct-09	ND	45.0	22.00
DPE-8	16-Nov-09	4,000.0	29.3	23.87
DPE-8	17-Dec-09	559.0	NR	NR
DPE-8	28-Dec-09	595.0	NR	NR
DPE-8	14-Jan-10	NR	NR	NR
DPE-8	22-Feb-10	ND	100.0	16
DPE-8	25-Mar-10	4,000.0	105.0	16
DPE-8	16-Apr-10	4,000.0	NA	NA
DPE-8	12-May-10	0.0	130.0	16.5
DPE-8	17-Jun-10	0.0	85.0	14
DPE-8	26-Jul-10	3.8	105.0	14.5
DPE-8	27-Sep-10	>4000	125.5	15.91
DPE-8	18-Oct-10	ND	65.0	19.5
DPE-8	22-Dec-10	11.4	150.0	15.08
DPE-8	6-Jan-11	10.2	140.0	16
DPE-8	20-Jan-11	3.1	128.0	15.92
DPE-8	27-Feb-11	0.8	97.0	17.8
DPE-8	7-Mar-11	44.6	95.0	17.5
DPE-8	18-Mar-11	3.1	80.0	16
DPE-8	23-Mar-11	7.4	90.0	15.5
DPE-8	22-Apr-11	5.1	97.0	15.1
DPE-8	19-May-11	4.9	75.0	17
DPE-8	16-Jun-11	52.3	81.3	17
DPE-8	25-Jul-11	0.5	87.0	15.4
DPE-8	28-Aug-11	0.0	104.0	15.38
DPE-8	29-Sep-11	0.3	108.0	16.7
DPE-8	27-Oct-11	79.8	102.0	16.9
DPE-8	21-Nov-11	0.6	94.0	17.3
DPE-8	20-Jan-12	0.6	72.7	15.22
DPE-8	27-Jan-12	0.0	71.0	15.06
DPE-8	16-Feb-12	0.9	63.6	15.2
DPE-8	16-Mar-12	NA	66.0	15.13
DPE-8	27-Mar-12	0.9	64.0	15.3
DPE-8	17-Apr-12	1.1	55.3	15.62
DPE-8	17-May-12	1.0	44.7	16.45
DPE-8	31-May-12	1.2	34.0	18.4
DPE-8	14-Jun-12	1.1	65.0	14
DPE-8	19-Jul-12	1.8	65.5	13.4
DPE-8	23-Aug-12	0.7	44.0	10.8
DPE-8	26-Sep-12	0.0	66.0	16.8
DPE-8	26-Oct-12	0.0	56.0	12.3
DPE-8	21-Dec-12	7.2	67.0	18 ND
DPE-8	4-Jan-13	7.5	NR 57.0	NR 47
DPE-8	30-Jan-13	2.6	57.0	17 ND
DPE-8	13-Feb-13	3.3	NR 64.0	NR 47.6
DPE-8	25-Feb-13	1.4	61.0	17.6
DPE-8	21-Mar-13	0.0	56.0	18.5
DPE-8	23-May-13	13.9	50.6	19.2
DPE-8	26-Jun-13	1.0	69.0	19.8
DPE-8	26-Aug-13	0.0	167.8	18.08
DPE-8	13-Oct-15	18.9	80.0	14.5
DPE-8	14-Dec-15	12.5	95.0	12.28
DPE-8	12-Jan-16	36.7	85.0	14.25
DPE-8	23-Feb-16	5.0	80.0	13.56
DPE-8	30-Mar-16	2.7	90.0	15.07
DPE-8	20-Apr-16	0.4	85.0	15.42
DPE-8	18-May-16	1.5	95.0	15.69
<u> </u>	<u> </u>			

^{* -} temporarily operating with DPE-8 because of vacuum issues

### Attachment D



# 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: 1/12/2016		Distance to Nearest Receptor (	33	Distance to Nea	33			
Person Completing Worksheet: ADK		SVE Stack Height (feet):		26.2	Air Stripper Stack Height (feet):			26.2
Notes: Use this area to provide comments regarding the sampling event,		SVE Stack Flow Rate (SCFM1)	64	Air Stripper Influ	0.017			
input parameters, etc.		Enter SVE Modeling F			Enter AS Modeling Parameters (if ap			
		SVE Stack Diameter (inches):	•	,	AS Stack Diame		` .	,
		SVE Stack Exit Velocity ² (feet p	er second):			elocity ² (feet per se	cond).	
		SVE Stack Exit Temperature (°				emperature (°F):	cond).	
		SVE Annual Dispersion Factor	,	Contact MPCA		ersion Factor ((µg/ı	3\/a/a\	Contact MPCA
	1	SVE 1-hr Dispersion Factor ((µ	g/m²)/g/s)	Contact MPCA	AS 1-nr Dispers	ion Factor ((µg/m³)	/g/s)	Contact MPCA
Chemical Name	CAS#	SVE Emission Concentration (µg/m³)		nission Rate g/sec)	AS Influent Groundwater Concentration (µg/L)	AS Effluent Groundwater Concentration (µg/L)	Removal Factor (dimension- less)	AS Emission Rate (μg/sec)
Acetone	67-64-1	46		1		56		
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	17		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	10		0				
trans-1,2-Dichloroethene	156-60-5							
Dichlorodifluoromethane (Freon 12)	75-71-8							
1,2-Dichloropropane	78-87-5			<u> </u>			· · · · · · · · · · · · · · · · · · ·	-
cis-1,3-Dichloropropene	10061-01-5							
trans-1,3-Dichloropropene	10061-02-6							
Dichlorotetrafluoroethane (Freon 114)	76-14-2							
Ethanol	64-17-5	1,400		43				
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	380		12				



# 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: 1/12/2016		Distance to Nearest Receptor (feet): 33		33	Distance to Nea	33		
Person Completing Worksheet: ADK		SVE Stack Height (feet):		26.2	Air Stripper Sta	ck Height (feet):	•	26.2
Notes: Use this area to provide comments regarding the same	npling event.	SVE Stack Flow Rate (SCFM ¹ ):		64	Air Stripper Influ	ent Flow Rate (L/s	):	0.017
input parameters, etc.	1 3	Enter SVE Modeling P				AS Modeling Para	,	
		SVE Stack Diameter (inches):	urumotoro (ir c	ррпоавіс	AS Stack Diame		ametere (ii ap	Jiloubie)
		\ /						
		SVE Stack Exit Velocity ² (feet p SVE Stack Exit Temperature (°				elocity (feet per se emperature (°F):	econa):	
		' '	,			. ,	2	
		SVE Annual Dispersion Factor (	((10 )0 )	Contact MPCA		ersion Factor ((µg/	, 0	Contact MPCA
		SVE 1-hr Dispersion Factor ((µg	g/m ³ )/g/s)	Contact MPCA	AS 1-hr Dispers	ion Factor ((µg/m³	)/g/s)	Contact MPCA
Chemical Name	CAS#	SVE Emission Concentration (µg/m³)	SVE Emission Rate (µg/sec)		AS Influent Groundwater Concentration (µg/L)	AS Effluent Groundwater Concentration (µg/L)	Removal Factor (dimension- less)	AS Emission Rate (μg/sec)
Propylene (methylethylene or propene)	115-07-1							
Styrene	100-42-5							
1,1,2,2-Tetrachloroethane	79-34-5							
Tetrachloroethylene (PCE)	127-18-4	7,200		219	21	0	1.00	0
Tetrahydrofuran	109-99-9							
Toluene (Methylbenzene)	108-88-3	3		0				
1,2,4-Trichlorobenzene	120-82-1							
1,1,1-Trichloroethane (Methyl chloroform)	71-55-6							
1,1,2-Trichloroethane	79-00-5							
Trichloroethylene (TCE)	79-01-6	6		0				ı
Trichlorofluoromethane (Freon 11)	75-69-4							
Trichlorotrifluoroethane (Freon 113)	76-13-1	4,500		137				ı
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	6		0				
o-Xylene	95-47-6							1

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: 1/12/2016

Person Completing Worksheet: ADK

		Acute Mixtures Evaluation			Chronic Noncancer Mixtures Evaluation							Excess			
Chemical Name	CAS#	Acute Hazard Quotient	CNS	IRRIT	REPRO	Chronic Noncancer Hazard Quotient	CNS	CV/BLD	IMMUN	KIDN	LIVER/GI	REPRO	RESP	WHOLE BODY	Lifetime Cancer Risk (guideline value = 1E-5)
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	0.0		0.0		0.0				0.0		0.0			
Propylene (methylethylene or propene)	115-07-1														
Styrene	100-42-5														
1,1,2,2-Tetrachloroethane	79-34-5														
Tetrachloroethylene (PCE)	127-18-4	0.0	0.0	0.0		0.0	0.0								2E-07
									<u>I</u>	l .		l .	1		



Soil Vapor Extraction and/or Air Stripper Risk Evaluation Worksheet

Doc Type: Corrective Action Design

MPCA Leak ID: MN BIO BUSINESS CENTER

Sample Date: 1/12/2016

Person Completing Worksheet: ADK

			Acute Mixtur	es Evaluatior	1
Chemical Name	CAS#	Acute Hazard Quotient	CNS	IRRIT	REPRO
Tetrahydrofuran	109-99-9				
Toluene (Methylbenzene)	108-88-3	0.0	0.0	0.0	
1,2,4-Trichlorobenzene	120-82-1				
1,1,1-Trichloroethane (Methyl chloroform)	71-55-6				
1,1,2-Trichloroethane	79-00-5				
Trichloroethylene (TCE)	79-01-6	0.0			0.0
Trichlorofluoromethane (Freon 11)	75-69-4				
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	0.0	0.0	0.0	
o-Xylene**	95-47-6				
Hazard Index:			0.0	0.0	0.0

		(	Chronic None	ancer Mixtur	es Evaluation	n			Excess
Chronic Noncancer Hazard Quotient	CNS	CV/BLD	IMMUN	KIDN	LIVER/GI	REPRO	RESP	WHOLE BODY	Lifetime Cancer Risk (guideline value = 1E-5)
0.0	0.0								
0.0	0.0								9E-10
0.0								0.0	
0.0	0.0								
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.8E-07

SP	BODY	(guideline value = 1E-5)
		9E-10
	0.0	
)	0.0	1.8E-07

#### NOTES:

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

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

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



MPCA Leak ID: MN BIO BUSINESS CENTER		Enter SVE Sta	ndard Paramet	ers		Enter AS Standa		s
Sample Date: 2/24/2016		Distance to Nearest Receptor (			Distance to Nea	rest Receptor (feet	i):	33
Person Completing Worksheet: ADK		SVE Stack Height (feet):			Air Stripper Sta		,	26.2
Notes: Use this area to provide comments regarding the sar	mpling event	SVE Stack Flow Rate (SCFM ¹ )				ent Flow Rate (L/s	١٠	0.244
input parameters, etc.	p.ii.ig ovo.ii.,	Enter SVE Modeling F				AS Modeling Para		
1		SVE Stack Diameter (inches):	arameters (ii e	ppiicabie)	AS Stack Diame		ameters (ii ap	oncable)
		\ /				, ,		
		SVE Stack Exit Velocity ² (feet p				elocity ² (feet per se	econd):	
		SVE Stack Exit Temperature (°	,			emperature (°F):	2	
		SVE Annual Dispersion Factor		Contact MPCA		ersion Factor ((µg/	, , ,	Contact MPCA
		SVE 1-hr Dispersion Factor ((µ	g/m³)/g/s)	Contact MPCA	AS 1-hr Dispers	ion Factor ((µg/m³	/g/s)	Contact MPCA
Chemical Name	CAS#	SVE Emission Concentration (µg/m³)		nission Rate g/sec)	AS Influent Groundwater Concentration	AS Effluent Groundwater Concentration	Removal Factor (dimension-	AS Emission Rate (µg/sec)
					(µg/L)	(µg/L)	less)	
Acetone	67-64-1	94		3	112	342	-2.05	-56
Benzene	71-43-2	1		0				
Benzyl chloride	100-44-7							
Bromodichloromethane	75-27-4							
Bromoform	75-25-2							
Bromomethane (Methyl bromide)	74-83-9							
1,3-Butadiene	106-99-0							
2-Butanone (Methyl ethyl ketone, MEK)	78-93-3	10		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	2		0				
Cyclohexane	110-82-7							
Dibromochloromethane	124-48-1							
1,2-Dibromoethane (Ethylene dibromide, EDB)	106-93-4							
1,2-Dichlorobenzene	95-50-1							
1,3-Dichlorobenzene	541-73-1							
1,4-Dichlorobenzene	106-46-7							
1,1-Dichloroethane	75-34-3							
1,2-Dichloroethane (DCA)	107-06-2							
1,1-Dichloroethene (DCE)	75-35-4	3		0				
cis-1,2-Dichloroethene	156-59-2	6		0				
trans-1,2-Dichloroethene	156-60-5							
Dichlorodifluoromethane (Freon 12)	75-71-8	3		0				
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	690		21				
Ethanol	64-17-5 141-78-6	690		21				
Ethyl acetate	100-41-4	7		0				
Ethylbenzene	100-41-4 622-96-8	/		0				
4-Ethyltoluene n-Heptane	142-82-5							
	87-68-3							
Hexachloro-1,3-butadiene		2		0				
n-Hexane	110-54-3 591-78-6	2		U				
2-Hexanone (Methyl butyl ketone) 4-Methyl-2-pentanone (Methyl isobutyl ketone, MIBK)	108-10-1							
Methylene chloride (Dichloromethane)	75-09-2	3		0				
Methyl-tert-butyl ether (MTBE)	1634-04-4	3		0				
Naphthalene	91-20-3							
2-Propanol (Isopropyl alcohol)	67-63-0	790		24				
Z-1 Topanor (190propy) alconory	01-00-0	790		24				



MPCA Leak ID: MN BIO BUSINESS CENTER		Enter SVE Sta	ndard Paramet	ers		Enter AS Standa	ard Parameter	s
Sample Date: 2/24/2016		Distance to Nearest Receptor (	feet):	33	Distance to Nea	arest Receptor (fee	t):	33
Person Completing Worksheet: ADK		SVE Stack Height (feet):	•	26.2	Air Stripper Stack Height (feet):			26.2
Notes: Use this area to provide comments regarding the sar	npling event,	SVE Stack Flow Rate (SCFM ¹ )		64	Air Stripper Influ	uent Flow Rate (L/s	):	0.244
input parameters, etc.		Enter SVE Modeling F		applicable)	Enter	AS Modeling Par	ameters (if ap	olicable)
		SVE Stack Diameter (inches):	u. u		AS Stack Diame		шотого ( цр	
		SVE Stack Exit Velocity ² (feet p	or occord).			'elocity ² (feet per se	20004).	
		SVE Stack Exit Velocity (leet p				emperature (°F):	econu).	
		' '	,	0		1 ( )	3,7,7,5	0
		SVE Annual Dispersion Factor		Contact MPCA		ersion Factor ((µg/	, , ,	Contact MPCA
		SVE 1-hr Dispersion Factor ((µ	g/m³)/g/s)	Contact MPCA	AS 1-hr Dispers	sion Factor ((µg/m³	)/g/s)	Contact MPCA
Chemical Name	CAS#	SVE Emission Concentration (µg/m³)		nission Rate g/sec)	AS Influent Groundwater Concentration (µg/L)	AS Effluent Groundwater Concentration (µg/L)	Removal Factor (dimension- less)	AS Emission Rate (μg/sec)
Propylene (methylethylene or propene)	115-07-1							
Styrene	100-42-5							
1,1,2,2-Tetrachloroethane	79-34-5							
Tetrachloroethylene (PCE)	127-18-4	8,400		255	32	2	0.94	7
Tetrahydrofuran	109-99-9	7		0				
Toluene (Methylbenzene)	108-88-3	21		1				
1,2,4-Trichlorobenzene	120-82-1							
1,1,1-Trichloroethane (Methyl chloroform)	71-55-6	5		0				
1,1,2-Trichloroethane	79-00-5							
Trichloroethylene (TCE)	79-01-6	5		0				
Trichlorofluoromethane (Freon 11)	75-69-4							
Trichlorotrifluoroethane (Freon 113)	76-13-1	5,600		170				
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	28		1				
o-Xylene	95-47-6	8		0				

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).



Soil Vapor Extraction and/or Air Stripper Risk Evaluation Worksheet

Doc Type: Corrective Action Design

MPCA Leak ID: MN BIO BUSINESS CENTER Sample Date: 2/24/2016 Person Completing Worksheet: ADK

		ļ	Acute Mixtur	es Evaluatio	n			(	Chronic Nonc	ancer Mixtu	res Evaluatior	1			Excess
Chemical Name	CAS#	Acute Hazard Quotient	CNS	IRRIT	REPRO	Chronic Noncancer Hazard Quotient	CNS	CV/BLD	IMMUN	KIDN	LIVER/GI	REPRO	RESP	WHOLE BODY	Lifetime Cancer Risk (guideline value = 1E-5)
Acetone	67-64-1	0.0	0.0			0.0	0.0								10.00
Benzene	71-43-2	0.0	0.0		0.0	0.0	0.0	0.0	0.0						1E-10
Benzyl chloride	100-44-7	0.0			0.0	0.0		0.0	0.0						12.10
Bromodichloromethane	75-27-4														
Bromoform	75-25-2	1				1					1				
Bromomethane (Methyl bromide)	74-83-9	1				1					1				
1,3-Butadiene	106-99-0	1				1					1				
2-Butanone (Methyl ethyl ketone, MEK)	78-93-3	0.0		0.0		0.0					1	0.0			
Carbon disulfide	75-15-0	0.0		0.0		0.0					1	0.0			
Carbon tetrachloride	56-23-5	1				1					1				
Chlorobenzene	108-90-7	1				1					1				
Chloroethane (Ethyl chloride)	75-00-3														
Chloroform	67-66-3	1				1					†				
Chloromethane (Methyl chloride)	74-87-3	0.0	0.0			0.0	0.0				1				
Cyclohexane	110-82-7	0.0	0.0			0.0	0.0								
Dibromochloromethane	124-48-1	1				1					1				
1,2-Dibromoethane (Ethylene dibromide, EDB)	106-93-4	1				1					1				
1,2-Dichlorobenzene	95-50-1														
1,3-Dichlorobenzene	541-73-1														
1,4-Dichlorobenzene	106-46-7	1				1					1				
1,1-Dichloroethane	75-34-3														
1,2-Dichloroethane (DCA)	107-06-2														
1,1-Dichloroethene (DCE)	75-35-4					0.0					0.0				
cis-1,2-Dichloroethene	156-59-2					0.0					0.0				
trans-1,2-Dichloroethene	156-60-5														
Dichlorodifluoromethane (Freon 12)	75-71-8					0.0					0.0				
1,2-Dichloropropane	78-87-5					0.0					0.0				
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	0.0		0.0		0.0							0.0		
Ethylbenzene	100-41-4	0.0			0.0	0.0				0.0					9E-10
4-Ethyltoluene	622-96-8	0.0			0.0	0.0				0.0					02.10
n-Heptane	142-82-5														
Hexachloro-1,3-butadiene	87-68-3	1													
n-Hexane	110-54-3	<del>                                     </del>				0.0	0.0				<del>                                     </del>		0.0		
2-Hexanone (Methyl butyl ketone)	591-78-6					0.0	0.0						0.0		-
4-Methyl-2-pentanone (Methyl isobutyl ketone, MIBK)	108-10-1	<del>                                     </del>				1									
Methylene chloride (Dichloromethane)	75-09-2	0.0	0.0			0.0	0.0	0.0			<del>                                     </del>				7E-11
Methyl-tert-butyl ether (MTBE)	1634-04-4	0.0	0.0				0.0	0.0			<del>                                     </del>				<u> </u>
Naphthalene	91-20-3	<del>                                     </del>				1									
2-Propanol (Isopropyl alcohol)	67-63-0	0.0		0.0		0.0				0.0	<del>                                     </del>	0.0			
Propylene (methylethylene or propene)	115-07-1	0.0		0.0		0.0				0.0	<del>                                     </del>	0.0			
Styrene	100-42-5	<del>                                     </del>				1									
1,1,2,2-Tetrachloroethane	79-34-5	<del>                                     </del>				1					<del>                                     </del>				
Tetrachloroethylene (PCE)	127-18-4	0.0	0.0	0.0		0.0	0.0								2E-07
rondomorodinyiono (i OL)	127 10 7	0.0	0.0	0.0	ı	0.0	0.0	l .	1		ı				ZL 01



Soil Vapor Extraction and/or Air Stripper Risk Evaluation Worksheet

Doc Type: Corrective Action Design

MPCA Leak ID: MN BIO BUSINESS CENTER Sample Date: 2/24/2016 Person Completing Worksheet: ADK

	ı	ī	A 1 - B 451	an Frankricke	
			Acute Mixtur	es Evaluatior	1
Chemical Name	CAS#	Acute Hazard Quotient	CNS	IRRIT	REPRO
Tetrahydrofuran	109-99-9				
Toluene (Methylbenzene)	108-88-3	0.0	0.0	0.0	
1,2,4-Trichlorobenzene	120-82-1				
1,1,1-Trichloroethane (Methyl chloroform)	71-55-6	0.0	0.0		
1,1,2-Trichloroethane	79-00-5				
Trichloroethylene (TCE)	79-01-6	0.0			0.0
Trichlorofluoromethane (Freon 11)	75-69-4				
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	0.0	0.0	0.0	
o-Xylene**	95-47-6	0.0	0.0	0.0	
Hazard Index:			0.0	0.0	0.0

			Shuania Nana	aaaa Mistor	aa Frakaka	_			
	1		nronic inonc	ancer Mixtui	es Evaluatio	n	1		Excess
Chronic Noncancer Hazard Quotient	CNS	CV/BLD	IMMUN	KIDN	LIVER/GI	REPRO	RESP	WHOLE BODY	Lifetime Cancer Ris (guideline value = 1E-
0.0	0.0								
0.0	0.0								
0.0	0.0								8E-10
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	2.1E-07

NO	TES:	

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

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

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



MPCA Leak ID: MN BIO BUSINESS CENTER		Enter SVE Star	ndard Paramet	ers		Enter AS Standa		s
Sample Date: 3/30/2016		Distance to Nearest Receptor (			Distance to Nea	rest Receptor (fee	i):	33
Person Completing Worksheet: ADK		SVE Stack Height (feet):			Air Stripper Stad		,	26.2
Notes: Use this area to provide comments regarding the sa	mpling event	SVE Stack Flow Rate (SCFM ¹ ):				ent Flow Rate (L/s	١٠	0.244
input parameters, etc.		Enter SVE Modeling P				AS Modeling Para		
,,		SVE Stack Diameter (inches):	arameters (ii a	applicable)	AS Stack Diame		ameters (ii ap	oncable)
		\ /				, ,		
		SVE Stack Exit Velocity ² (feet p				elocity ² (feet per se	econd):	
		SVE Stack Exit Temperature (°	,			emperature (°F):	2	
		SVE Annual Dispersion Factor		Contact MPCA		ersion Factor ((µg/	, , ,	Contact MPCA
		SVE 1-hr Dispersion Factor ((µ	g/m³)/g/s)	Contact MPCA	AS 1-hr Dispers	ion Factor ((µg/m³	/g/s)	Contact MPCA
Chemical Name	CAS#	SVE Emission Concentration (µg/m³)		nission Rate g/sec)	AS Influent Groundwater Concentration (µg/L)	AS Effluent Groundwater Concentration (µg/L)	Removal Factor (dimension- less)	AS Emission Rate (µg/sec)
Acetone	67-64-1	75		2	39	71	-0.83	-8
Benzene	71-43-2	1		0	30		5.50	
Benzyl chloride	100-44-7	'						
Bromodichloromethane	75-27-4							
Bromoform	75-27-4							
Bromomethane (Methyl bromide)	74-83-9							
1,3-Butadiene	106-99-0							
2-Butanone (Methyl ethyl ketone, MEK)	78-93-3	7		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	3		0				
Chloromethane (Methyl chloride)	74-87-3	1		0				
Cyclohexane	110-82-7							
Dibromochloromethane	124-48-1							
1,2-Dibromoethane (Ethylene dibromide, EDB)	106-93-4							
1,2-Dichlorobenzene	95-50-1							
1,3-Dichlorobenzene	541-73-1							
1,4-Dichlorobenzene	106-46-7							
1,1-Dichloroethane	75-34-3							
1,2-Dichloroethane (DCA)	107-06-2							
1,1-Dichloroethene (DCE)	75-35-4							
cis-1,2-Dichloroethene	156-59-2	20		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	670	· · · · · · · · · · · · · · · · · · ·	20		<u> </u>		·
Ethyl acetate	141-78-6			-				
Ethylbenzene	100-41-4	1		0				
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	4		0				
Methyl-tert-butyl ether (MTBE)	1634-04-4							
Naphthalene	91-20-3							
2-Propanol (Isopropyl alcohol)	67-63-0	920		28				



MPCA Leak ID: MN BIO BUSINESS CENTER		Enter SVE Sta	ndard Paramet	ers		Enter AS Standa	ard Parameter	s
Sample Date: 3/30/2016		Distance to Nearest Receptor (	feet):	33	Distance to Nea	rest Receptor (fee	t):	33
Person Completing Worksheet: ADK		SVE Stack Height (feet):		26.2	Air Stripper Stad	ck Height (feet):		26.2
Notes: Use this area to provide comments regarding the sar	npling event,	SVE Stack Flow Rate (SCFM1)	:	64	Air Stripper Influ	ent Flow Rate (L/s	):	0.244
input parameters, etc.		Enter SVE Modeling F		applicable)	Enter	AS Modeling Par	ameters (if ap	plicable)
		SVE Stack Diameter (inches):		, pp. 10 a.u. 10 y	AS Stack Diame			,,
		SVE Stack Exit Velocity ² (feet p	or cocond):			elocity ² (feet per se	noond):	
		SVE Stack Exit Velocity (leet p				emperature (°F):	cond).	
		' '	,	Contact MPCA		. ,	3\ / /- \	Contact MPCA
		SVE Annual Dispersion Factor				ersion Factor ((µg/	,	
		SVE 1-hr Dispersion Factor ((µ	g/m³)/g/s)	Contact MPCA	AS 1-hr Dispers	ion Factor ((µg/m³	)/g/s)	Contact MPCA
Chemical Name	CAS#	SVE Emission Concentration (µg/m³)		nission Rate g/sec)	AS Influent Groundwater Concentration (µg/L)	AS Effluent Groundwater Concentration (µg/L)	Removal Factor (dimension- less)	AS Emission Rate (µg/sec)
Propylene (methylethylene or propene)	115-07-1							
Styrene	100-42-5							
1,1,2,2-Tetrachloroethane	79-34-5							
Tetrachloroethylene (PCE)	127-18-4	19,000		577	60	0	1.00	15
Tetrahydrofuran	109-99-9	2		0				
Toluene (Methylbenzene)	108-88-3	40		1				
1,2,4-Trichlorobenzene	120-82-1							
1,1,1-Trichloroethane (Methyl chloroform)	71-55-6	10		0				
1,1,2-Trichloroethane	79-00-5							
Trichloroethylene (TCE)	79-01-6	13		0				
Trichlorofluoromethane (Freon 11)	75-69-4							
Trichlorotrifluoroethane (Freon 113)	76-13-1	5,300		161				
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	4		0				
o-Xylene	95-47-6	2		0				İ

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).



Soil Vapor Extraction and/or Air Stripper Risk Evaluation Worksheet

Doc Type: Corrective Action Design

MPCA Leak ID: MN BIO BUSINESS CENTER Sample Date: 3/30/2016 Person Completing Worksheet: ADK

	Acute Mixtures Evaluation				Chronic Noncancer Mixtures Evaluation									
					1	Chronic								
Chemical Name	CAS#	Acute Hazard Quotient	CNS	IRRIT	REPRO	Noncancer Hazard Quotient	CNS	CV/BLD	IMMUN	KIDN	LIVER/GI	REPRO	RESP	WHOLE BODY
Acetone	67-64-1	0.0	0.0			0.0	0.0							
Benzene	71-43-2	0.0			0.0	0.0		0.0	0.0					
enzyl chloride	100-44-7													
romodichloromethane	75-27-4													
romoform	75-25-2													
romomethane (Methyl bromide)	74-83-9													
3-Butadiene	106-99-0													
-Butanone (Methyl ethyl ketone, MEK)	78-93-3	0.0		0.0		0.0						0.0		
arbon disulfide	75-15-0													
arbon tetrachloride	56-23-5													
Chlorobenzene	108-90-7													İ
hloroethane (Ethyl chloride)	75-00-3							İ			1			
Chloroform	67-66-3	0.0			0.0	0.0					0.0	0.0		
Chloromethane (Methyl chloride)	74-87-3	0.0	0.0		<u> </u>	0.0	0.0	İ						
Cyclohexane	110-82-7							İ			1			
bibromochloromethane	124-48-1													
2-Dibromoethane (Ethylene dibromide, EDB)	106-93-4							İ			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-Dichloroethene (DCE)	75-35-4	1												
s-1,2-Dichloroethene	156-59-2													
ans-1,2-Dichloroethene	156-60-5													
pichlorodifluoromethane (Freon 12)	75-71-8													
,2-Dichloropropane	78-87-5													
is-1,3-Dichloropropene*	10061-01-5													
ans-1,3-Dichloropropene*	10061-02-6										1			
ichlorotetrafluoroethane (Freon 114)	76-14-2										1			
thanol	64-17-5	0.0		0.0		0.0		1			1		0.0	
thyl acetate	141-78-6	0.0		0.0		0.0					1		0.0	
thylbenzene	100-41-4	0.0			0.0	0.0		1		0.0	1			
Ethyltoluene	622-96-8			<b>†</b>	3.0	J		1		3.0	<del>                                     </del>		<b> </b>	1
Heptane	142-82-5										1			
exachloro-1,3-butadiene	87-68-3										1			
Hexane	110-54-3	1						1			+			
Hexanone (Methyl butyl ketone)	591-78-6	1						1			+			
Methyl-2-pentanone (Methyl isobutyl ketone, MIBK)	108-10-1			<b>-</b>				<del> </del>			+			<b> </b>
ethylene chloride (Dichloromethane)	75-09-2	0.0	0.0			0.0	0.0	0.0			+			
ethyl-tert-butyl ether (MTBE)	1634-04-4	0.0	0.0			0.0	0.0	0.0			+			
aphthalene	91-20-3					<del>                                   </del>		1			+			
	67-63-0	0.0		0.0		0.0		1		0.0	+	0.0		
-Propanol (Isopropyl alcohol)		0.0		0.0		0.0		<del> </del>		0.0	<del>                                     </del>	0.0		
ropylene (methylethylene or propene) styrene	115-07-1 100-42-5	<del>                                     </del>		<u> </u>				<del> </del>			<del>                                     </del>			
				-	1	l		1			<del>                                     </del>			<b> </b>
,1,2,2-Tetrachloroethane	79-34-5		0.0	0.0	1	ı L	0.0	1			1		l	<u> </u>



Soil Vapor Extraction and/or Air Stripper Risk Evaluation Worksheet

Doc Type: Corrective Action Design

MPCA Leak ID: MN BIO BUSINESS CENTER

Sample Date: 3/30/2016

Person Completing Worksheet: ADK

			Acute Mixtur	es Evaluatior	1
Chemical Name	CAS#	Acute Hazard Quotient	CNS	IRRIT	REPRO
Tetrahydrofuran	109-99-9				
Toluene (Methylbenzene)	108-88-3	0.0	0.0	0.0	
1,2,4-Trichlorobenzene	120-82-1				
1,1,1-Trichloroethane (Methyl chloroform)	71-55-6	0.0	0.0		
1,1,2-Trichloroethane	79-00-5				
Trichloroethylene (TCE)	79-01-6	0.0			0.0
Trichlorofluoromethane (Freon 11)	75-69-4				
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	0.0	0.0	0.0	
o-Xylene**	95-47-6	0.0	0.0	0.0	
Hazard Index:		0.0	0.0	0.0	

		(	Chronic Nonc	ancer Mixtui	res Evaluatio	n			Excess
Chronic Noncancer Hazard Quotient	CNS	CV/BLD	IMMUN	KIDN	LIVER/GI	REPRO	RESP	WHOLE BODY	Lifetime Cancer Risk (guideline value = 1E-5)
0.0	0.0								
0.0	0.0								
0.0	0.0								2E-09
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	4.8E-07

	Excess
	Lifetime
VHOLE	Cancer Risk
BODY	(guideline
	value = 1E-5)
	2E-09
0.0	
0.0	4.8E-07
0.0	52 07

#### NOTES:

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

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

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



MPCA Leak ID: MN BIO BUSINESS CENTER		Enter SVE Sta	ndard Paramet	ers	Enter AS Standard Parameters				
Sample Date:4/20/2016		Distance to Nearest Receptor (	feet):	33	Distance to Nea	rest Receptor (feet	t):	33	
Person Completing Worksheet: ADK		SVE Stack Height (feet):		26.2	Air Stripper Star	ck Height (feet):		26.2	
Notes: Use this area to provide comments regarding the sar	npling event,	SVE Stack Flow Rate (SCFM1)		64	Air Stripper Influ	ent Flow Rate (L/s	):	0.022	
input parameters, etc.		Enter SVE Modeling F				AS Modeling Para			
		SVE Stack Diameter (inches):	`	,	AS Stack Diame		` .	,	
		SVE Stack Exit Velocity ² (feet p	er second).			elocity ² (feet per se	econd).		
		SVE Stack Exit Temperature (°F):				emperature (°F):	oona).		
		SVE Annual Dispersion Factor ((µg/m³)/g/s)		Contact MPCA AS Annual Dispersion Factor ((µg/m³)/g/s)			m ³ )/a/e)	Contact MPCA	
		SVE 1-hr Dispersion Factor ((µ	Contact MPCA		ion Factor ((µg/m³)		Contact MPCA		
	1	SVE 1-III Dispersion Factor ((µ	g/m <i>)/g/s)</i>	CONTROL IVIE CA	AS 1-III Dispers	ion ractor ((µg/m	)/g/s)	CONTROL WIFCA	
					AS Influent	AS Effluent	Removal	AS Emission	
Chemical Name	CAS#	SVE Emission Concentration	SVE En	nission Rate	Groundwater	Groundwater	Factor	Rate	
Chomical Name	0,10 "	(µg/m³)	(μ	g/sec)	Concentration	Concentration	(dimension-	(µg/sec)	
					(µg/L)	(µg/L)	less)	(µg/000)	
Acetone	67-64-1	58		2	54	121	-1.24	-1	
Benzene	71-43-2	55			54	121	1.27	-	
Benzyl chloride	100-44-7								
Bromodichloromethane	75-27-4								
Bromoform	75-27-4								
Bromomethane (Methyl bromide)	74-83-9								
1,3-Butadiene	106-99-0								
2-Butanone (Methyl ethyl ketone, MEK)	78-93-3	16		n					
Carbon disulfide	75-15-0	10							
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	1		0					
Cyclohexane	110-82-7								
Dibromochloromethane	124-48-1								
1,2-Dibromoethane (Ethylene dibromide, EDB)	106-93-4								
1,2-Dichlorobenzene	95-50-1								
1,3-Dichlorobenzene	541-73-1								
1,4-Dichlorobenzene	106-46-7								
1,1-Dichloroethane	75-34-3								
1,2-Dichloroethane (DCA)	107-06-2								
1,1-Dichloroethene (DCE)	75-35-4								
cis-1,2-Dichloroethene	156-59-2								
trans-1,2-Dichloroethene	156-60-5								
Dichlorodifluoromethane (Freon 12)	75-71-8	12		0					
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	420		13					
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		0					
2-Hexanone (Methyl butyl ketone)	591-78-6								
4-Methyl-2-pentanone (Methyl isobutyl ketone, MIBK)	108-10-1								
Methylene chloride (Dichloromethane)	75-09-2	5		0					
Methyl-tert-butyl ether (MTBE)	1634-04-4								
Naphthalene	91-20-3								
2-Propanol (Isopropyl alcohol)	67-63-0	710		22					



MPCA Leak ID: MN BIO BUSINESS CENTER		Enter SVE Star	ndard Paramet	ers		Enter AS Standa		s
Sample Date:4/20/2016		Distance to Nearest Receptor (	feet):	33	Distance to Nea	arest Receptor (fee	t):	33
Person Completing Worksheet: ADK		SVE Stack Height (feet):		26.2	Air Stripper Sta	Air Stripper Stack Height (feet):		26.2
Notes: Use this area to provide comments regarding the san	npling event,	SVE Stack Flow Rate (SCFM ¹ ):		64	Air Stripper Influent Flow Rate (L/s):		):	0.022
input parameters, etc.	, ,	Enter SVE Modeling P	pplicable)	Enter	plicable)			
		SVE Stack Diameter (inches):	ррпошью,	AS Stack Diame		ametere (ii ap		
		SVE Stack Exit Velocity ² (feet p	or cocond):			'elocity ² (feet per se	noond):	
		SVE Stack Exit Velocity (leet p			emperature (°F):	econa).		
		' '	,	Control MDCA		1 ( )	3\ ( ( . )	O
		SVE Annual Dispersion Factor	,,,,,	Contact MPCA		ersion Factor ((µg/	, ,	Contact MPCA
		SVE 1-hr Dispersion Factor ((µ	g/m³)/g/s)	Contact MPCA	AS 1-hr Dispers	ion Factor ((µg/m³	)/g/s)	Contact MPCA
Chemical Name	CAS#	SVE Emission Concentration (µg/m³)		nission Rate g/sec)	AS Influent Groundwater Concentration (µg/L)	AS Effluent Groundwater Concentration (µg/L)	Removal Factor (dimension- less)	AS Emission Rate (μg/sec)
Propylene (methylethylene or propene)	115-07-1							
Styrene	100-42-5							
1,1,2,2-Tetrachloroethane	79-34-5							
Tetrachloroethylene (PCE)	127-18-4	6		0	106	0	1.00	2
Tetrahydrofuran	109-99-9	2		0				
Toluene (Methylbenzene)	108-88-3	4		0				
1,2,4-Trichlorobenzene	120-82-1							
1,1,1-Trichloroethane (Methyl chloroform)	71-55-6							
1,1,2-Trichloroethane	79-00-5							
Trichloroethylene (TCE)	79-01-6							
Trichlorofluoromethane (Freon 11)	75-69-4							
Trichlorotrifluoroethane (Freon 113)	76-13-1	1,900		58				
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	2		0				
o-Xylene	95-47-6	1		0				

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).



Soil Vapor Extraction and/or Air Stripper Risk Evaluation Worksheet

Doc Type: Corrective Action Design

MPCA Leak ID: MN BIO BUSINESS CENTER Sample Date:4/20/2016 Person Completing Worksheet: ADK

	1		Acute Mixtur	es Evaluatio	n	i i		(	Chronic None	ancer Mixtu	res Evaluation	n		
			TOUTO IVIIATUI	- Lvaidallo		Chronic	Chronic Noncancer Mixtures Evaluation Chronic							
Chemical Name	CAS#	Acute Hazard Quotient	CNS	IRRIT	REPRO	Noncancer Hazard Quotient	CNS	CV/BLD	IMMUN	KIDN	LIVER/GI	REPRO	RESP	WHOLE
Acetone	67-64-1	0.0	0.0			0.0	0.0							
enzene	71-43-2													
enzyl chloride	100-44-7													
romodichloromethane	75-27-4													
romoform	75-25-2													
romomethane (Methyl bromide)	74-83-9													
3-Butadiene	106-99-0													
-Butanone (Methyl ethyl ketone, MEK)	78-93-3	0.0		0.0		0.0						0.0		
Carbon disulfide	75-15-0													
arbon tetrachloride	56-23-5													
Chlorobenzene	108-90-7													
hloroethane (Ethyl chloride)	75-00-3													
Chloroform	67-66-3					1								
Chloromethane (Methyl chloride)	74-87-3	0.0	0.0			0.0	0.0							
Cyclohexane	110-82-7													
Dibromochloromethane	124-48-1													
,2-Dibromoethane (Ethylene dibromide, EDB)	106-93-4													
,2-Dichlorobenzene	95-50-1													
,3-Dichlorobenzene	541-73-1													
,4-Dichlorobenzene	106-46-7													
,1-Dichloroethane	75-34-3													
,2-Dichloroethane (DCA)	107-06-2													
,1-Dichloroethene (DCE)	75-35-4													
is-1,2-Dichloroethene	156-59-2													
ans-1,2-Dichloroethene	156-60-5													
richlorodifluoromethane (Freon 12)	75-71-8					0.0					0.0			
,2-Dichloropropane	78-87-5													
is-1,3-Dichloropropene*	10061-01-5													
ans-1,3-Dichloropropene*	10061-02-6													
ichlorotetrafluoroethane (Freon 114)	76-14-2													
thanol	64-17-5	0.0		0.0		0.0							0.0	
thyl acetate	141-78-6													
thylbenzene	100-41-4													
-Ethyltoluene	622-96-8													
-Heptane	142-82-5													1
lexachloro-1,3-butadiene	87-68-3													
-Hexane	110-54-3					0.0	0.0						0.0	
-Hexanone (Methyl butyl ketone)	591-78-6													1
Methyl-2-pentanone (Methyl isobutyl ketone, MIBK)	108-10-1													
ethylene chloride (Dichloromethane)	75-09-2	0.0	0.0			0.0	0.0	0.0						
ethyl-tert-butyl ether (MTBE)	1634-04-4													
aphthalene	91-20-3													
-Propanol (Isopropyl alcohol)	67-63-0	0.0		0.0		0.0				0.0		0.0		
ropylene (methylethylene or propene)	115-07-1													
Styrene	100-42-5													
,1,2,2-Tetrachloroethane	79-34-5													
Tetrachloroethylene (PCE)	127-18-4	0.0	0.0	0.0		0.0	0.0			<u> </u>				



Soil Vapor Extraction and/or Air Stripper Risk Evaluation Worksheet

Doc Type: Corrective Action Design

MPCA Leak ID: MN BIO BUSINESS CENTER Sample Date:4/20/2016 Person Completing Worksheet: ADK

		,	Acute Mixtur	es Evaluatior	1
Chemical Name	CAS#	Acute Hazard Quotient	CNS	IRRIT	REPRO
Tetrahydrofuran	109-99-9				
Toluene (Methylbenzene)	108-88-3	0.0	0.0	0.0	
1,2,4-Trichlorobenzene	120-82-1				
1,1,1-Trichloroethane (Methyl chloroform)	71-55-6				
1,1,2-Trichloroethane	79-00-5				
Trichloroethylene (TCE)	79-01-6				
Trichlorofluoromethane (Freon 11)	75-69-4				
Trichlorotrifluoroethane (Freon 113)	76-13-1				
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	0.0	0.0	0.0	
o-Xylene**	95-47-6	0.0	0.0	0.0	
Hazard Index:		0.0	0.0	0.0	

		(	Chronic Nonc	ancer Mixtu	res Evaluatio	n			Excess
Chronic Noncancer Hazard Quotient	CNS	CV/BLD	IMMUN	KIDN	LIVER/GI	REPRO	RESP	WHOLE BODY	Lifetime Cancer Risk (guideline value = 1E-5)
0.0	0.0								
		1							
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	2.1E-09

#### NOTES:

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

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

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



MPCA Leak ID:		Enter SVE Sta	ndard Paramet	ers	Enter AS Standard Parameters				
Sample Date: 5/18/2016		Distance to Nearest Receptor (			Distance to Nea	rest Receptor (feet	):	33	
Person Completing Worksheet: ADK		SVE Stack Height (feet):			Air Stripper Stad		,	26.2	
Notes: Use this area to provide comments regarding the sal	mpling event	SVE Stack Flow Rate (SCFM ¹ )				ent Flow Rate (L/s)	١٠	0.017	
input parameters, etc.		Enter SVE Modeling F				AS Modeling Para			
,,		SVE Stack Diameter (inches):	arameters (ii a	ipplicable)			anieters (ii ap	Jilcabie)	
		\ /			AS Stack Diameter (inches):  AS Stack Exit Velocity ² (feet per second):				
		SVE Stack Exit Velocity ² (feet p					econd):		
		SVE Stack Exit Temperature (°			emperature (°F):	2			
		SVE Annual Dispersion Factor	Contact MPCA		ersion Factor ((µg/r	, , ,	Contact MPCA		
		SVE 1-hr Dispersion Factor ((μ	g/m³)/g/s)	Contact MPCA	AS 1-hr Dispers	ion Factor ((µg/m³)	/g/s)	Contact MPCA	
Chemical Name	CAS#	SVE Emission Concentration (µg/m³)		nission Rate g/sec)	AS Influent Groundwater Concentration (µg/L)	AS Effluent Groundwater Concentration (µg/L)	Removal Factor (dimension- less)	AS Emission Rate (μg/sec)	
Acetone	67-64-1	29		1	25	45	-0.77	0	
Benzene	71-43-2	1		0	20	-10	5.77		
Benzyl chloride	100-44-7								
Bromodichloromethane	75-27-4								
Bromoform	75-27-4								
Bromomethane (Methyl bromide)	74-83-9								
1,3-Butadiene	106-99-0								
2-Butanone (Methyl ethyl ketone, MEK)	78-93-3	2		0					
Carbon disulfide	75-15-0	2							
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	1		0					
Cyclohexane	110-82-7								
Dibromochloromethane	124-48-1								
1,2-Dibromoethane (Ethylene dibromide, EDB)	106-93-4								
1,2-Dichlorobenzene	95-50-1								
1,3-Dichlorobenzene	541-73-1								
1,4-Dichlorobenzene	106-46-7								
1,1-Dichloroethane	75-34-3								
1,2-Dichloroethane (DCA)	107-06-2								
1,1-Dichloroethene (DCE)	75-35-4								
cis-1,2-Dichloroethene	156-59-2								
trans-1,2-Dichloroethene	156-60-5								
Dichlorodifluoromethane (Freon 12)	75-71-8								
1,2-Dichloropropane	78-87-5								
cis-1,3-Dichloropropene	10061-01-5								
trans-1,3-Dichloropropene	10061-02-6								
Dichlorotetrafluoroethane (Freon 114)	76-14-2								
Ethanol	64-17-5	340		11					
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			<u> </u>			· · · · · · · · · · · · · · · · · · ·		
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	3		0					
Methyl-tert-butyl ether (MTBE)	1634-04-4								
Naphthalene	91-20-3								
2-Propanol (Isopropyl alcohol)	67-63-0	540		17					



MPCA Leak ID:		Enter SVE Sta	ndard Paramet	ers		Enter AS Standa	ard Parameter	s
Sample Date: 5/18/2016		Distance to Nearest Receptor (	feet):	33	Distance to Nea	rest Receptor (fee	t):	33
Person Completing Worksheet: ADK		SVE Stack Height (feet):		26.2	Air Stripper Stad	ck Height (feet):		26.2
Notes: Use this area to provide comments regarding the san	npling event,	SVE Stack Flow Rate (SCFM ¹ )	•	66	66 Air Stripper Influent Flow Rate (L/s):			0.017
input parameters, etc.	, ,	Enter SVE Modeling F		pplicable)	Enter	AS Modeling Par	ameters (if an	
		SVE Stack Diameter (inches):		ppcas.c,	AS Stack Diame		шотого ( цр	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
		SVE Stack Exit Velocity ² (feet p			elocity ² (feet per se	20004).		
		SVE Stack Exit Velocity (leet p				emperature (°F):	econa).	
			,	0 1 11001		. ,	3	0 1 11001
	SVE Annual Dispersion Factor	1110 / 0 /	Contact MPCA		ersion Factor ((µg/	, , ,	Contact MPCA	
		SVE 1-hr Dispersion Factor ((µ	g/m³)/g/s)	Contact MPCA	AS 1-hr Dispers	ion Factor ((µg/m³	)/g/s)	Contact MPCA
Chemical Name	CAS#	SVE Emission Concentration (µg/m³)	SVE Emission Rate		AS Influent Groundwater Concentration (µg/L)	AS Effluent Groundwater Concentration (µg/L)	Removal Factor (dimension- less)	AS Emission Rate (μg/sec)
Propylene (methylethylene or propene)	115-07-1							
Styrene	100-42-5							
1,1,2,2-Tetrachloroethane	79-34-5							
Tetrachloroethylene (PCE)	127-18-4	18		1	3	0	1.00	0
Tetrahydrofuran	109-99-9	2		0				
Toluene (Methylbenzene)	108-88-3	3		0				
1,2,4-Trichlorobenzene	120-82-1							
1,1,1-Trichloroethane (Methyl chloroform)	71-55-6							
1,1,2-Trichloroethane	79-00-5							
Trichloroethylene (TCE)	79-01-6							
Trichlorofluoromethane (Freon 11)	75-69-4							
Trichlorotrifluoroethane (Freon 113)	76-13-1	2,100		66				
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	2		0				
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).



Soil Vapor Extraction and/or Air Stripper Risk Evaluation Worksheet

Doc Type: Corrective Action Design

MPCA Leak ID: Sample Date: 5/18/2016 Person Completing Worksheet: ADK

	1	Acute Mixtures Evaluation				Chronic Noncancer Mixtures Evaluation								
			NOUTE IVIIXIUI	US ⊑valuall0		Chronic		1	JITOHIC INOHIC	ance wixtu	ios ∟valuati0i	1		
Chemical Name	CAS#	Acute Hazard Quotient	CNS	IRRIT	REPRO	Noncancer Hazard Quotient	CNS	CV/BLD	IMMUN	KIDN	LIVER/GI	REPRO	RESP	WHOLE
cetone	67-64-1	0.0	0.0			0.0	0.0							
enzene	71-43-2	0.0			0.0	0.0		0.0	0.0					
enzyl chloride	100-44-7													
romodichloromethane	75-27-4													
romoform	75-25-2													
romomethane (Methyl bromide)	74-83-9													
3-Butadiene	106-99-0													
-Butanone (Methyl ethyl ketone, MEK)	78-93-3	0.0		0.0		0.0						0.0		
Carbon disulfide	75-15-0													
arbon tetrachloride	56-23-5													
hlorobenzene	108-90-7													
hloroethane (Ethyl chloride)	75-00-3													
Chloroform	67-66-3													
chloromethane (Methyl chloride)	74-87-3	0.0	0.0			0.0	0.0							
Cyclohexane	110-82-7													
ibromochloromethane	124-48-1													
,2-Dibromoethane (Ethylene dibromide, EDB)	106-93-4													
2-Dichlorobenzene	95-50-1													
3-Dichlorobenzene	541-73-1													
4-Dichlorobenzene	106-46-7													
1-Dichloroethane	75-34-3													
2-Dichloroethane (DCA)	107-06-2													
1-Dichloroethene (DCE)	75-35-4													
s-1,2-Dichloroethene	156-59-2													
ans-1,2-Dichloroethene	156-60-5													
ichlorodifluoromethane (Freon 12)	75-71-8													
2-Dichloropropane	78-87-5													
s-1,3-Dichloropropene*	10061-01-5													
ans-1,3-Dichloropropene*	10061-02-6													
ichlorotetrafluoroethane (Freon 114)	76-14-2													
thanol	64-17-5	0.0		0.0		0.0							0.0	
thyl acetate	141-78-6													
thylbenzene	100-41-4													
Ethyltoluene	622-96-8													
Heptane	142-82-5													
exachloro-1,3-butadiene	87-68-3													
Hexane	110-54-3													
Hexanone (Methyl butyl ketone)	591-78-6													
Methyl-2-pentanone (Methyl isobutyl ketone, MIBK)	108-10-1													
thylene chloride (Dichloromethane)	75-09-2	0.0	0.0			0.0	0.0	0.0						
thyl-tert-butyl ether (MTBE)	1634-04-4	_												
phthalene	91-20-3													
Propanol (Isopropyl alcohol)	67-63-0	0.0		0.0		0.0				0.0		0.0		
opylene (methylethylene or propene)	115-07-1	_												
tyrene	100-42-5													
,1,2,2-Tetrachloroethane	79-34-5													
etrachloroethylene (PCE)	127-18-4	0.0	0.0	0.0		0.0	0.0							



Soil Vapor Extraction and/or Air Stripper Risk Evaluation Worksheet

Doc Type: Corrective Action Design

MPCA Leak ID: Sample Date: 5/18/2016 Person Completing Worksheet: ADK

			Acute Mixtur	es Evaluation	n
Chemical Name	CAS#	Acute Hazard Quotient	CNS	IRRIT	REPRO
Tetrahydrofuran	109-99-9				
Toluene (Methylbenzene)	108-88-3	0.0	0.0	0.0	
1,2,4-Trichlorobenzene	120-82-1				
1,1,1-Trichloroethane (Methyl chloroform)	71-55-6				
1,1,2-Trichloroethane	79-00-5				
Trichloroethylene (TCE)	79-01-6				
Trichlorofluoromethane (Freon 11)	75-69-4				
Trichlorotrifluoroethane (Freon 113)	76-13-1				
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	0.0	0.0	0.0	
o-Xylene**	95-47-6				
Hazard Index:		0.0	0.0	0.0	

		(	Chronic Nonc	ancer Mixtu	res Evaluatio	n			Excess
Chronic Noncancer Hazard Quotient	CNS	CV/BLD	IMMUN	KIDN	LIVER/GI	REPRO	RESP	WHOLE BODY	Lifetime Cancer Risk (guideline value = 1E-5
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	6.5E-10

ard ent	CNS	CV/BLD	IMMUN	KIDN	LIVER/GI	REPRO	KESP	BODY	(guideline value = 1E-5)
)	0.0								
)								0.0	
)	0.0								
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.5E-10

#### NOTES:

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

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

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



MPCA Leak ID:	Enter SVE Sta	ndard Paramet	ers	Enter AS Standard Parameters					
Sample Date: 5/18/2016		Distance to Nearest Receptor (	feet):	33	Distance to Nea	arest Receptor (fee	t):	33	
Person Completing Worksheet: ADK		SVE Stack Height (feet):	26.2	Air Stripper Stack Height (feet):			26.2		
Notes: Use this area to provide comments regarding the sar	npling event,	SVE Stack Flow Rate (SCFM1)		66	Air Stripper Influ	0.017			
input parameters, etc.		Enter SVE Modeling Parameters (if applicable)				plicable)			
		SVE Stack Diameter (inches):	•	,	AS Stack Diame		<u> </u>	,	
		SVE Stack Exit Velocity ² (feet p	er second):			'elocity ² (feet per se	econd).		
		SVE Stack Exit Temperature (°				emperature (°F):	conu).		
		SVE Annual Dispersion Factor	,	Contact MPCA		ersion Factor ((µg/	m ³ \/m/a\	Contact MPCA	
				Contact MPCA					
	1	SVE 1-hr Dispersion Factor ((µ	g/m²)/g/s)	Contact MPCA	AS 1-nr Dispers	sion Factor ((µg/m³	)/g/s)	Contact MPCA	
Chemical Name	CAS#	SVE Emission Concentration (µg/m³)		nission Rate g/sec)	AS Influent Groundwater Concentration (µg/L)	AS Effluent Groundwater Concentration (µg/L)	Removal Factor (dimension- less)	AS Emission Rate (μg/sec)	
Acetone	67-64-1	43		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	2		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	1		0					
Cyclohexane	110-82-7								
Dibromochloromethane	124-48-1								
1,2-Dibromoethane (Ethylene dibromide, EDB)	106-93-4								
1,2-Dichlorobenzene	95-50-1								
1,3-Dichlorobenzene	541-73-1								
1,4-Dichlorobenzene	106-46-7								
1,1-Dichloroethane	75-34-3								
1,2-Dichloroethane (DCA)	107-06-2								
1,1-Dichloroethene (DCE)	75-35-4								
cis-1,2-Dichloroethene	156-59-2								
trans-1,2-Dichloroethene	156-60-5								
Dichlorodifluoromethane (Freon 12)	75-71-8								
1,2-Dichloropropane	78-87-5			<u> </u>					
cis-1,3-Dichloropropene	10061-01-5			-					
trans-1,3-Dichloropropene	10061-02-6			-					
Dichlorotetrafluoroethane (Freon 114)	76-14-2								
Ethanol	64-17-5	450		14					
Ethyl acetate	141-78-6								
Ethylbenzene	100-41-4								
4-Ethyltoluene	622-96-8								
n-Heptane	142-82-5								
Hexachloro-1,3-butadiene	87-68-3								
n-Hexane	110-54-3								
2-Hexanone (Methyl butyl ketone)	591-78-6								
4-Methyl-2-pentanone (Methyl isobutyl ketone, MIBK)	108-10-1								
Methylene chloride (Dichloromethane)	75-09-2	6		0					
Methyl-tert-butyl ether (MTBE)	1634-04-4								
Naphthalene	91-20-3								
2-Propanol (Isopropyl alcohol)	67-63-0	460		14					



MPCA Leak ID:		Enter SVE Star		Enter AS Standa	•	'S		
Sample Date: 5/18/2016		Distance to Nearest Receptor (	33	Distance to Nea	rest Receptor (fee	t):	33	
Person Completing Worksheet: ADK		SVE Stack Height (feet):	26.2	Air Stripper Stack Height (feet):			26.2	
Notes: Use this area to provide comments regarding the san	npling event.	SVE Stack Flow Rate (SCFM ¹ ):		66	Air Stripper Influ	uent Flow Rate (L/s	):	0.017
input parameters, etc.		Enter SVE Modeling P				AS Modeling Par	,	
		SVE Stack Diameter (inches):			AS Stack Diame		шотого ( цр	J. Cabio,
		SVE Stack Exit Velocity ² (feet p	or occord).			'elocity ² (feet per se	00004).	
		SVE Stack Exit Velocity (leet p				emperature (°F):	econa).	
		, ,	,	0 1 11001		1 ,	3,7,7	0 1 11001
		SVE Annual Dispersion Factor	, . ,	Contact MPCA		ersion Factor ((µg/	, ,	Contact MPCA
		SVE 1-hr Dispersion Factor ((µ	g/m³)/g/s)	Contact MPCA	AS 1-hr Dispers	sion Factor ((µg/m³	)/g/s)	Contact MPCA
Chemical Name	CAS#	SVE Emission Concentration (µg/m³)	SVE Emission Rate (µg/sec)		AS Influent Groundwater Concentration (µg/L)	AS Effluent Groundwater Concentration (µg/L)	Removal Factor (dimension- less)	AS Emission Rate (µg/sec)
Propylene (methylethylene or propene)	115-07-1							
Styrene	100-42-5							
1,1,2,2-Tetrachloroethane	79-34-5							
Tetrachloroethylene (PCE)	127-18-4	230		7				
Tetrahydrofuran	109-99-9	2		0				
Toluene (Methylbenzene)	108-88-3	3		0				
1,2,4-Trichlorobenzene	120-82-1							
1,1,1-Trichloroethane (Methyl chloroform)	71-55-6							
1,1,2-Trichloroethane	79-00-5							
Trichloroethylene (TCE)	79-01-6							
Trichlorofluoromethane (Freon 11)	75-69-4							
Trichlorotrifluoroethane (Freon 113)	76-13-1	1,500		47				
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	2		0				
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).



Soil Vapor Extraction and/or Air Stripper Risk Evaluation Worksheet

Doc Type: Corrective Action Design

MPCA Leak ID: Sample Date: 5/18/2016 Person Completing Worksheet: ADK

	T	Acute Mixtures Evaluation				Chronic Noncancer Mixtures Evaluation								
			. Julio IVIIALUI	- Valuatio	1	Chronic		1		Janoor WiiAlu		 		1
Chemical Name	CAS#	Acute Hazard Quotient	CNS	IRRIT	REPRO	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													
I,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					1								
Chloroform	67-66-3					]								
Chloromethane (Methyl chloride)	74-87-3	0.0	0.0			0.0	0.0							
Cyclohexane	110-82-7													
Dibromochloromethane	124-48-1													
,2-Dibromoethane (Ethylene dibromide, EDB)	106-93-4													
,2-Dichlorobenzene	95-50-1													
,3-Dichlorobenzene	541-73-1													
,4-Dichlorobenzene	106-46-7													
,1-Dichloroethane	75-34-3													
,2-Dichloroethane (DCA)	107-06-2													
,1-Dichloroethene (DCE)	75-35-4													
is-1,2-Dichloroethene	156-59-2													
rans-1,2-Dichloroethene	156-60-5													
Dichlorodifluoromethane (Freon 12)	75-71-8													
,2-Dichloropropane	78-87-5													
is-1,3-Dichloropropene*	10061-01-5													
rans-1,3-Dichloropropene*	10061-02-6													
Dichlorotetrafluoroethane (Freon 114)	76-14-2				ļ	l								
Ethanol	64-17-5	0.0		0.0	ļ	0.0							0.0	
thyl acetate	141-78-6				ļ	l								
thylbenzene	100-41-4					l [l					1			1
-Ethyltoluene	622-96-8					l					ļ			
-Heptane	142-82-5					l								
Hexachloro-1,3-butadiene	87-68-3					l [l					1			1
-Hexane	110-54-3					l		ļ			ļ			
-Hexanone (Methyl butyl ketone)	591-78-6					l								
-Methyl-2-pentanone (Methyl isobutyl ketone, MIBK)	108-10-1					l								
ethylene chloride (Dichloromethane)	75-09-2	0.0	0.0			0.0	0.0	0.0			1			1
lethyl-tert-butyl ether (MTBE)	1634-04-4					l					ļ			
laphthalene	91-20-3					l		ļ			ļ			
-Propanol (Isopropyl alcohol)	67-63-0	0.0		0.0		0.0				0.0	ļ	0.0		
Propylene (methylethylene or propene)	115-07-1				ļ	l		ļ			1			
Styrene	100-42-5					l					ļ			
1,1,2,2-Tetrachloroethane	79-34-5				ļ									1
Tetrachloroethylene (PCE)	127-18-4	0.0	0.0	0.0		0.0	0.0							



Soil Vapor Extraction and/or Air Stripper Risk Evaluation Worksheet

Doc Type: Corrective Action Design

MPCA Leak ID: Sample Date: 5/18/2016 Person Completing Worksheet: ADK

Hazard Index:			0.0	0.0	0.0			
o-Xylene**	95-47-6							
m&p-Xylene**	108-38-3	0.0	0.0	0.0				
Vinyl chloride	75-01-4							
Vinyl acetate	108-05-4							
1,3,5-Trimethylbenzene	108-67-8							
1,2,4-Trimethylbenzene	95-63-6							
Trichlorotrifluoroethane (Freon 113)	76-13-1							
Trichlorofluoromethane (Freon 11)	75-69-4							
Trichloroethylene (TCE)	79-01-6							
1,1,2-Trichloroethane	79-00-5							
1,1,1-Trichloroethane (Methyl chloroform)	71-55-6							
1,2,4-Trichlorobenzene	120-82-1							
Toluene (Methylbenzene)	108-88-3	0.0	0.0	0.0				
Tetrahydrofuran	109-99-9							
Chemical Name	CAS#	Acute Hazard Quotient	CNS	IRRIT	REPRO			
		Acute Mixtures Evaluation						

		(	Chronic Nonc	ancer Mixtu	res Evaluatio	n			Excess
Chronic Noncancer Hazard Quotient	CNS	CV/BLD	IMMUN	KIDN	LIVER/GI	REPRO	RESP	WHOLE BODY	Lifetime Cancer Risk (guideline value = 1E-5)
0.0	0.0								
0.0	0.0								
0.0								0.0	
0.0								0.0	
0.0	0.0								l <del> </del>
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.9E-09

,	Hazard Index:			0.0	0.0	0.0
o-Xylene**		95-47-6				
m&p-Xylene**		108-38-3	0.0	0.0	0.0	

#### NOTES:

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

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

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