EPA Region 5 Records Ctr.
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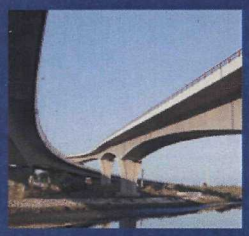
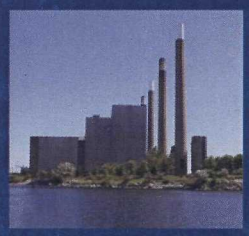

St. Louis Park / Edina Groundwater VOC Contamination Study - Phase IV

Task 1002 - St. Louis Park / Edina / Hopkins Groundwater VOC Data Review

Project No. 200804044

STS | AECOM

AECOM
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December 31, 2008

Mr. Nile Fellows
Minnesota Pollution Control Agency
520 Lafayette Road
St. Paul, MN 55155

Re: St. Louis Park / Edina Groundwater VOC Contamination Study – Task 1002: St. Louis Park / Edina / Hopkins Groundwater VOC Data Review; STS Project 200804044

Dear Mr. Fellows:

We are pleased to present our report covering work conducted under Task 1002: St. Louis Park / Edina / Hopkins Groundwater VOC Data Review; STS Project 200804044. The work was conducted following the scope of work outlined in STS Proposal 200802882, Task 1002 (September 9, 2008). The proposal was approved as stated in the Contract Work Order SFST0904 issued by MPCA on September 11, 2008. This work order is a continuation of the City of Edina Well No. 7 and VOC Study conducted since July 2004.

As specified in the proposal, this report includes the following:

- Figures with the updated maps of the St. Louis Park / Edina / Hopkins VOC plume for Prairie du Chien / Jordan, St. Peter, Platteville and Drift aquifers
- Updated tables of VOC analytical results organized by aquifer
- Documentation of the trend analysis
- Discussion, summary and recommendations to the MPCA

If you have any questions, please contact Peter Rzepecki at 763-852-4245 or Robert DeGroot at 763-852-4217.

Sincerely,

Peter Rzepecki, PhD, PHg, PG
Senior Hydrogeologist, Risk Assessor

Robert DeGroot, PE, PG
Principal Engineer

PR/dn
Encs.

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JAN 15 2009

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Appendix A
Chains of Custody and MDH Laboratory Analysis Data for 2008
Chains of Custody and Lockheed Martin, Inc. Analytical Report issued in July 2008

Appendix B
2007 Sampling Schedule (Reilly Tar Site Related Monitoring Well Network)

1.0 Introduction

Vinyl chloride (VC) contamination detected in the City of Edina Municipal Well Number 7 (ED-7) triggered a multi-phase investigation that is described in the following reports that are available in the Minnesota Pollution Control Agency's (MPCA) archives:

- City of Edina Well No. 7 Study - Preliminary Data Report (STS, March 2005)
- Land Use and Source Characterization Survey – Edina Well Evaluation (STS, May 2005)
- City of Edina Well No. 7 Study - Phase II Report (STS, June 2005)
- St. Louis Park W437 Chlorinated Solvent Source Investigation (STS, March 2006)
- City of Edina Well No. 7 Study - Phase III Report (STS, June 2006a)
- Construction and Testing of the Edina OPCJ Test Well (STS, June 2007)
- St. Louis Park / Edina / Hopkins Groundwater Volatile Organic Compounds Contamination Study – 2007
- St. Louis Park / Edina Groundwater VOC Contamination Study – Phase IV (2008); STS Project 200703587 – Task 1001: Monitoring and Testing the Three OPCJ Wells: Edina Well No. 7, Edina OPCJ Test Well and Meadowbrook Golf Course Well (STS, June 30, 2008a)
- Edina Well 7 Focused Feasibility Study, Groundwater Contamination; STS Project 200804044, Task 1001 (STS, October 15, 2008a)
- Continuation of Water Level Monitoring in the three OPCJ Wells, St. Louis Park / Edina Groundwater VOC Study; STS Project 200804044, Task 1004 (STS, December 31, 2008b).

The multi-stage Reilly Tar Site / Meadowbrook groundwater modeling project is also related to the study of the VOC plume in Edina, St. Louis Park and Hopkins. The most up-to-date reports summarizing this project (also available at the MPCA archives) are:

- Reilly Tar Site / Meadowbrook Groundwater Model Set-up and Calibration Report (STS, May 2005)
- Reilly Tar Site / Meadowbrook Groundwater Model Expansion (STS, June 2006b)
- Hydrogeological Analysis for 3rd Five Year Review – Reilly Tar & Chemical Corporation Superfund Site (STS, August 2006)
- Reilly Tar Site / Meadowbrook Groundwater Model Update - Project No. 200703587 – Task 1003 (STS, June 30, 2008c)

The subject of this report is a review of the newly collected 2008 volatile organic compound (VOC) data, incorporating the new data into the VOC database and performing preliminary trend analysis.

2.0 VOC Database

The VOC database is presented in a series of tables (Tables 1-6). The tables list the results of the VOC analysis for only those analytes that were detected in at least one of the sampled wells.

In total, 110 wells are included in the database. Following is the summary of the number of wells sampled per aquifer, per different sampling period:

Aquifer	Number of Wells Sampled During the Years		
	2004-2007	2007	2008
Drift wells	31	14	14
Platteville (OPVL) wells	24	14	14
St. Peter (OSTP)	17	9	8
Prairie du Chien – Jordan (OPCJ)	38	13	16
Aquifers deeper than OPCJ	6	5	1

The VOC database includes the VOC results for samples collected beginning from 2004 by three different entities: ENSR, STS and Pace Analytical. Four different groundwater sample types, collected using four different techniques, are represented in the VOC database:

- Spigot samples collected by STS in 2004 from several private wells located in Edina and Hopkins
- Discrete samples collected by STS from various depths from the three OPCJ wells (Edina Well No. 7 in 2005 and 2008, Meadowbrook Golf Course Well in 2005, and Edina Test Well in 2007 and 2008) and several St. Louis Park wells
- Low-flow samples collected by STS from several Drift wells in St. Louis Park in 2005
- Samples collected using standard purge and pump techniques by ENSR and Pace Analytical

The 2008 samples were collected by ENSR and Pace Analytical. ENSR periodically collects groundwater samples from an extensive network of monitoring wells in the St. Louis Park, Edina and Hopkins area. This sampling work is part of an ongoing monitoring effort associated with the Reilly Tar Superfund Site. The samples are analyzed for PAH. MPCA is obtaining groundwater samples for low-level VOC analysis by splitting samples collected by ENSR. The results of this analysis are made available to STS for processing and reporting, such as presented in this report.

Pace Analytical collected samples from several wells for Lockheed Martin – Response Engineering Analytical Contract. Lockheed Martin was conducting investigative work for US EPA as part of the Superfund Site work.

The VOC database also included one surface water sample collected by STS as a grab sample next to the Thermotech facility from the Nine-Mile Creek in Hopkins in 2006 (see Table 1).

All the laboratory analysis included in the tables was performed by the Minnesota Department of Health (MDH) laboratory, except for part of the samples collected in 2008 which were analyzed by Lockheed Martin (collected by Pace Analytical). MDH completed low-level VOC analyses using the US EPA Method 8260. Lockheed Martin conducted VOC analysis using the US EPA Method SW-846 8260B.

3.0 Trend Analysis

It is important to determine if the contamination is increasing or decreasing with time while evaluating groundwater contamination data collected over a period of time. Several wells included in the VOC database have already been sampled four times. For these wells, trend analysis was conducted using "Mann-Kendal Test" described by Gilbert (1987).

Several wells included in the VOC database were sampled three times. For these wells, the trend was evaluated by a simple inspection of the data and using the following simple rule:

- If the concentrations were increasing (or decreasing) in each sample within chronologically ordered set of samples, it was concluded that an increasing (or decreasing) trend is present.

The trends were not evaluated for wells sampled only two times.

The results of the trend analysis are presented in the VOC database tables using the following color code:

- Green color indicates a decreasing trend.
- Red color indicates an increasing trend.

4.0 Discussion

Visual inspection of the content of Tables 1 through 5 and Figures 1 through 4 allows the following observations:

- The accumulated VOC data indicate that the main source for chlorinated VOCs is the area near the intersection of Highway 7 and Louisiana Avenue, within the limits of the City of St. Louis Park (SLP Source Area). This conclusion is additionally supported by the continuous water level data collected at the Edina OPCJ Test Well, Meadowbrook Golf Course Well and ED-7 (STS, December 31, 2008). This data indicates that during the spring, summer and fall months, heavy pumping from the Edina municipal wells creates a hydraulic gradient inducing the contaminated OPCJ groundwater to migrate from the St. Louis Park area toward the Edina wells.

- The information presented on Figures 1 through 4 shows a pattern of contamination that spreads from the Drift through OPVL, OSTP down to OPCJ formations, with the plumes progressively more laterally extensive. This pattern can be explained by dispersion and transport along preferential pathways, with contaminants traveling laterally on top of confining units, before finding vertical pathways leading to the next deeper aquifer. Video logging of the Republic Creosote Well (W23) indicates that at least a portion of the VOC contamination present in the OPCJ aquifer reached that aquifer system through W23 via its damaged casing (Bill Greg of ENSR, currently AECOM – personal communication). The damaged portion of the casing was facing Platteville and deep Drift aquifers. Contaminated groundwater from these aquifers was migrating directly to the OPCJ aquifer through W23. This would explain why the St. Peter aquifer is less contaminated than not only the Platteville but also the OPCJ aquifer system.

- Several VOCs are present in the Drift, OPVL, OSTP and OPCJ aquifers at concentrations above the Minnesota Drinking Water Standards (HRLs). These are: Tetrachloroethene (PCE), Trichloroethene (TCE), cis-1,2-Dichloroethene (1,2-DCE), trans-1,2-Dichloroethene, Vinyl Chloride, Benzene, 1,1-Dichloroethene and Naphthalene. Cis-1,2-Dichloroethene and Vinyl Chloride are the only contaminants found above the HRL in the OPCJ aquifer – the principal water supply aquifer in the area.

- The same VOCs listed in the above bullet also exceed federal drinking water standards, MCL, except for Naphthalene (there is no MCL for Naphthalene).

- The two most contaminated aquifers are OPVL and Drift – these are the shallowest aquifers closest to the sources of contamination. Most of these likely sources are in the commercial and industrial area within the boundaries of St. Louis Park.

- Among the wells completed in the Drift aquifer, concentrations of some VOCs measured in three wells (P307, P309 and W420) show an increasing trend. These wells are among the most contaminated Drift wells. Concentrations of some VOCs in W420 show a decreasing trend. Northeast, east and southeast boundaries of the Drift VOC plume are not well defined – there are no monitoring wells that are not contaminated outside of the interpreted extent of the plume in those directions. Although no chlorinated VOCs were detected in two wells on the eastern side of the plume, W117 and W439, method detection limit used in analysis was an order of magnitude higher compared to the limit used during the 2007 analysis (low-level VOC analysis). Therefore the eastern extent of the VOC plume in deep Drift aquifer (see Figure 1) was interpreted to be the same as reported for 2007 (STS, 2007b).

- Among the wells completed in the OPVL aquifer, concentrations of some VOCs measured in four wells (W421, W431, W437 and W438) show an increasing trend. These wells are among the most contaminated OPVL wells. Concentrations of some VOCs measured in eight OPVL wells (W20, W27, W101, W421, W426, W434, W437 and W438) show a decreasing trend. The number of wells with decreasing trend is larger than the number of wells with increasing trend. The lateral extent of the VOC plume in OPVL aquifer (see Figure 2) appears to be smaller compared to 2007 (see STS, 2007b). The concentration trends and diminishing lateral extent may be interpreted as an indication that the OPVL plume is subject to natural attenuation processes and is shrinking. However, the boundary of the OPVL plume is not well defined in the southern and southeastern direction.

- Among the wells completed in the OSTP aquifer, concentrations of some VOCs measured in four wells (SLP3, W410, W411 and W412) show an increasing trend. Concentrations of some VOCs measured in three OSTP wells (W409, W411 and W412) show a decreasing trend. The OSTP aquifer is apparently the least VOC contaminated among the four aquifers (Drift, OPVL, OSTP and OPCJ). Like in the case of the Drift and OPVL plumes, the boundary of the OSTP plume is not well defined – except for two wells (W21 and W122), there are no monitoring wells that are not contaminated outside of the interpreted extent of the plume.

- Among the wells completed in the OPCJ aquifer, concentrations of some VOCs measured in eight wells (ED2, ED13, ED15, SLP4, SLP6, W23, W48 and W401) show an increasing trend. This is a significant finding as four of them are active, municipal water supply wells. Concentrations of some VOCs measured in seven OPCJ wells (ED7, Millstar Corporation, SLP4, SLP6, W23, W48 and W119) show a decreasing trend. However except the Millstar Corporation well and W23 (Reilly Tar Site PAH source control well), these wells are not actively pumped. Unlike the shallower aquifers' plumes (Drift, OPVL and OSTP), the boundaries of the OPCJ plume are relatively well defined, except in the southwestern direction (see Figure 4 – the private wells, Witkin or Schmit, are completed in the top portion of the Prairie du Chien formation

and above the VOC plume). Installation of the Edina Test well removed some of the uncertainties as to the location of the southwestern boundary of the OPCJ's VOC plume. Compared to 2005, the extent of the VOC plume decreased in the southeastern direction, most likely the result of discontinuation of groundwater production from ED7.

- The VOC tested wells that are completed in aquifers deeper than the OPCJ aquifer system (see Table 5) are not significantly contaminated, except the Ironton-Galesville well, W105 (MN Sugar Beet Company / Republic Creosote Company's well located close to W23 – the source control well at the former Reilly Tar Site). VOC analysis for that well (W105) was completed for the first time in 2008.

- No VOC data collected in 2007 is available for important Edina water supply wells like ED-4 or ED-6. This is considered a significant data gap as there is potential for VOC plumes to migrate toward these wells. Increasing trend in Trichloroethene, cis-1,2-Dichloroethene and Vinyl Chloride in ED-2 may be an indication that the plume is migrating in the southern direction toward other Edina municipal wells, like ED-3, ED-4, ED-6 and ED-17.

5.0 Recommendations

In this section, we propose several activities aimed at collecting data to support monitoring the VOC plumes present in the four aquifer systems in the St. Louis Park and Edina area: Drift, OPVL, OSTP and OPCJ. This monitoring will support the future environmental restoration and management decisions.

- Continue splitting groundwater samples collected by ENSR (as part of the Reilly Tar Site related PAH plume monitoring) for VOC analysis. Splitting samples with ENSR is an efficient way to monitor the evolution of the VOC plumes in the St. Louis Park and Edina area. Appendix B presents a list of monitoring wells periodically sampled by ENSR

- Subject the following OPCJ wells to annual VOC sampling and analysis (several of these wells are not on the ENSR list):

List of Wells to be Annually Sampled for Low-Level VOC Analysis

Well Name	Well Name
ED-2 (ENSR list)	SLP-4 (ENSR list)
ED-3 (ENSR list)	SLP-6 (ENSR list)
ED-4	W23 (ENSR list)
ED-6	W48 (ENSR list)
ED-7 (not sampled since 2005, ENSR list)	W119 (ENSR list)
ED-13 (ENSR list)	W401
ED-15 (ENSR list)	W402 (ENSR list)
ED-16	W403 (ENSR list)
ED-17	W406 (ENSR list)
ED OPCJ Test Well (ED-TEST)	
Hopkins 6	

Sampling these wells was recommended in the Focused Feasibility Study conducted as part of the Edina Well 7 Groundwater Contamination Study (STS, 2008a).

- Utilize low-level VOC analysis method using the US EPA Method 8260. The results obtained by Lockheed Martin who conducted VOC analysis using the US EPA Method SW-846 8260B are not easily comparable to the results of low-level analysis utilized so far in the VOC monitoring project.

Sampling the OPCJ wells listed in the above included table for VOC analysis is the most important for direct monitoring of groundwater contamination affecting (or having a potential to affect) the nearby municipal wells.

Sampling the other wells included in the Appendix B list for VOC analysis is also important as a means of monitoring the VOC plumes migrating across the multi-aquifer system toward the municipal wells.

6.0 General Qualifications

AECOM professional services have been performed, findings obtained, and recommendations prepared in accordance with the generally accepted engineering and hydrogeologic principles and standard practices. No other warranty, either expressed or implied, is made. AECOM assumes no responsibility for data or interpretations made by others.

7.0 References

Gilbert, R.O., 1987. Statistical Methods for Environmental Pollution Monitoring. Van Nostrand Reinhold, New York, 1987.

STS, March 3, 2005. City of Edina Well No. 7 Study, July 2004 to March 2005 Preliminary Data Report. Prepared for the Minnesota Pollution Control Agency, STS Project 99613-XA.

STS, May 27, 2005. Land Use and Source Characterization Survey – Edina Well Evaluation. Prepared for the Minnesota Pollution Control Agency, STS Project 99613-XB.

STS, May 31, 2005. Reilly Tar Site / Meadowbrook Groundwater Model Set-up and Calibration Report. Prepared for the Minnesota Pollution Control Agency, STS Project 99330-XD.

STS, June 30, 2005. City of Edina Well No. 7 Study – Phase II Report, March 2005 to June 2005. Prepared for the Minnesota Pollution Control Agency, STS Project 99613-XB.

STS, March 13, 2006. St. Louis Park W437 Chlorinated Source Investigation. Prepared for the Minnesota Pollution Control Agency, STS Project 30055.

STS, June 30, 2006a. City of Edina Well No. 7 Study – Phase III Report, August 2005 - June 2006. Prepared for the Minnesota Pollution Control Agency, STS Project 99613-XC.

STS, June 30, 2006b. Reilly Tar Site / Meadowbrook Ground Water Model Expansion. Prepared for the Minnesota Pollution Control Agency, STS Project 99330-XF.

STS, August 2, 2006c. Hydrogeological Analysis for the 3rd Five Year Review – Reilly Tar & Chemical Corporation Superfund Site. Prepared for the Minnesota Pollution Control Agency, STS Project 200604690.

STS, June 30, 2007a. Construction and Testing of the Edina OPCJ Test Well. Prepared for the Minnesota Pollution Control Agency, STS Project No. 200605032.

STS, June 30, 2007b. St. Louis Park / Edina / Hopkins Groundwater Volatile Organic Compounds Contamination Study – 2006 / 2007. STS Project No. 200701405

STS, October 15, 2008a. Focused Feasibility Study, Edina Well 7 Groundwater Contamination. STS Project No. 200804044, Task 1001.

STS, December 31, 2008b. St. Louis Park / Edina Groundwater Volatile Organic Compounds Contamination Study - Task 1004 – Continuation of Water Level Monitoring in the three OPCJ Wells, Letter Report. STS Project No. 200804044.

Tables

Tables

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Table 2 - Groundwater Analytical Results – Platteville Wells
Table 3 - Groundwater Analytical Results – St. Peter Sandstone Wells
Table 4 - Groundwater Analytical Results – Prairie du Chien Jordan Aquifer Wells
Table 5 - Groundwater Analytical Results – Deep Aquifers' Wells
Table 6 - Groundwater Analytical Results – QA/QC Samples

Table 1
Groundwater Analytical Results - Drift Wells
St. Louis Park / Edina / Hopkins Groundwater VOC Contamination
STS Project 200804044

									???															
Well Name:					P 8	P 9	P 58	P109	P109	P109	P109	P112	P112	P112	P112	P112	P112	P304	P305	P307	P307D	P307	P307	P307-DUP	P307
CWI Name:																									
MN Unique Well No.:					00216117	00216118	00227944	00216194	00216194	00216194	00216194	00216166	00216166	00216166	00216166	00216166	00216166	00439765	00439765	00462926	00462926	00462926	00462926	00462926	00462926
Aquifer:					Drift	Drift	Drift	Drift	Drift	Drift	Drift	Drift	Drift	Drift	Drift	Drift	Drift	Drift	Drift	Drift	Drift	Drift	Drift	Drift	Drift
STS Sample ID:					P 8	P 9	P 58						P112	P112				P304	P305						
MDH Sample No:					200514577	200514581	200514580		200611310	200710977		200508514	200514578	200514579	200611305	200710976		200514574	200514575			200611306	200710972	200710998	
Sample Date:					6/7/2005	6/8/2005	6/7/2005	4/26/2005	5/8/2006	5/9/2007	4/28/2008	4/25/2005	6/7/2005	6/7/2005	5/8/2006	5/9/2007	4/28/2008	6/6/2005	6/6/2005	4/25/2005	4/25/2005	5/8/2006	5/9/2007	5/9/2007	4/28/2008
Notes:					Low Flow Sample	Low Flow Sample	Low Flow Sample	ENSR Split Sample	ENSR Split Sample	ENSR Split Sample	Collected by Pace for EPA	ENSR split sample	Low Flow Sample	Low Flow Sample, Duplicate	ENSR Split Sample	ENSR Split Sample	Collected by Pace for EPA	Low Flow Sample	Low Flow Sample, Duplicate	ENSR Split Sample	ENSR Split Sample	ENSR Split Sample	ENSR Split Sample	ENSR Split Sample	Collected by Pace for EPA
Detected Contaminants		MN Drinking Water Standard		Federal Drinking Water Standards							Pace Sample No.: P112-042908						Pace Sample No.: P112-042808								Pace Sample No.: P307-042808
Benzene	ug/L	5	HRL	5 MCL	**0.5**	<0.2	<0.2	**13.0**	<1.0	**0.7**	**0.623 J**	<0.2	**0.3**	**0.4**	<1.0	**0.3**	<1.00	<0.2	<0.2	<0.2	<0.2	**3.7**	**34.0**	**30.0**	**22.6**
n-Butylbenzene	ug/L	--		--	<0.5	<0.5	<0.5	<0.5	<1.0	<0.5	<1.00	<0.5	<0.5	<0.5	<1.0	<0.5	<1.00	<0.5	<0.5	<0.5	<0.5	<1.0	<0.5	<0.5	<1.00
Chlorodibromoethane	ug/L	--		--	<0.5	<0.5	<0.5	<0.5	<1.0	<0.5	<1.00	<0.5	<0.5	<0.5	<1.0	<0.5	<1.00	<0.5	<0.5	<0.5	<0.5	<1.0	<0.5	<0.5	<1.00
Chloroethane	ug/L	--		--	<0.5	<0.5	<0.5	<0.5	<1.0	<0.5	<1.00	<0.5	<0.5	<0.5	<1.0	<0.5	<1.00	<0.5	<0.5	<0.5	<0.5	<1.0	<0.5	<0.5	<1.00
Chloroform	ug/L	60	HRL	--	<0.1	<0.1	<0.1	**0.1**	<1.0	<0.1	<5.00	<0.1	<0.1	<0.1	<1.0	<0.1	<5.00	<0.1	<0.1	<0.1	<0.1	<1.0	<0.1	<0.1	<5.00
Chloromethane	ug/L	--		--	<1.0	<1.0	<1.0	**<1.0**	<1.0	<1.0	<1.00	<1.0	<1.0	<1.0	<1.0	<1.0	0.710 J	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.00
1,1-Dichloroethane	ug/L	70	HRL	--	<0.2	<0.2	<0.2	**0.7**	<1.0	**0.20 J**	<1.00	<0.2	<0.2	<0.2	<1.0	<0.2	<1.00	<0.2	<0.2	<0.2	<0.2	<1.0	<0.2	<0.2	<1.00
1,2-Dichloroethane	ug/L	4	HRL	5 MCL	<0.2	<0.2	<0.2	**0.4**	<1.0	<0.2	<1.00	<0.2	**0.3**	**0.3**	<1.0	**0.3**	<1.00	<0.2	<0.2	<0.2	<0.2	<1.0	<0.2	<0.2	<1.00
1,1-Dichloroethene	ug/L	6	HRL	7 MCL	<0.5	<0.5	<0.5	**14.0**	<1.0	**0.21 J**	<1.00	<0.5	**0.6**	**0.9**	**0.8 J**	**0.6**	<1.00	<0.5	<0.5	<0.2	<0.2	**0.97 J**	**1.3**	**5.0**	<1.00
cis-1,2-Dichloroethene	ug/L	70	HRL	70 MCL	**98.0**	<0.2	<0.2	**3800.0**	**0.7 J**	**0.8**	<1.00	**0.7**	**2.6**	**3.5**	**3.3**	**2.7**	**1.94**	<0.2	<0.2	**0.6**	<0.2	**340 RC**	**1600 RC**	**1400 RC**	**163.0**
trans-1,2-Dichloroethene	ug/L	100	HRL	100 MCL	**23**	<0.1	<0.1	**61**	<1.0	**0.088 J**	<1.00 J	<0.1	<0.1	<0.1	<1.0	**0.1**	<1.00 J	<0.1	<0.1	<0.1	<0.1	**18**	**330 RC**	**330 RC**	**171 J**
Dichlorodifluoromethane	ug/L	1000	HRL	--	<1.0	<1.0	<1.0	**1.1**	<1.0	<1.0	<1.00	<1.0	<1.0	<1.0	<1.0	<1.0	<1.00	<1.0	<1.0	<0.1	<0.1	<1.0	<1.0	<1.0	<1.00
Dichlorofluoromethane	ug/L	--		--	<0.5	<0.5	<0.5	<0.5	<1.0	<0.5	<1.00	<0.5	<0.5	<0.5	<1.0	<0.5	<1.00	<0.5	<0.5	<0.5	<0.5	<1.0	<0.5	<0.5	<1.00
Ethylbenzene	ug/L	700	HRL	700 MCL	<0.5	<0.5	<0.5	**0.7**	<1.0	<0.5	<1.00	<0.5	<0.5	<0.5	<1.0	<0.5	<1.00	<0.5	<0.5	<0.5	<0.5	**2.8**	**12**	**11**	**6.69**
Isopropylbenzene	ug/L	300	HRL*	--	<0.5	<0.5	<0.5	<0.5	<1.0	<0.5	<1.00	<0.5	<0.5	<0.5	<1.0	<0.5	<1.00	<0.5	<0.5	<0.5	<0.5	<1.0	**2.4**	**2.2**	<1.00
p-Isopropyltoluene	ug/L	--		--	<0.5	<0.5	<0.5	<0.5	<1.0	<0.5	<1.00	<0.5	<0.5	<0.5	<1.0	<0.5	<1.00	<0.5	<0.5	<0.5	<0.5	<1.0	<0.5	<0.5	<1.00
Methylene chloride (Dichloromethane)	ug/L	5	HRL	5 MCL	<0.5	<0.5	<0.5	<0.5	<1.0	<0.5	<1.00	<0.5	<0.5	<0.5	<1.0	<0.5	<1.00	<0.5	<0.5	<0.5	<0.5	<1.0	<0.5	<0.5	<1.00
Methyl ethyl ketone	ug/L	4000	HRL	--	<10	<10	<10	<10	<10	<10	<5.00	<10	<10	<10	<10	<10	<5.00	<10	<10	<10	<10	<10	<10	<10	<5.00
Naphthalene	ug/L	300	HRL	--	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.00	<1.0	<1.0	<1.0	<1.0	<1.0	<5.00	<1.0	**1.0**	<1.0	<1.0	**8.5**	**7.5**	**4.3**	**1.73 J**
n-Propylbenzene	ug/L	--		--	<0.5	<0.5	<0.5	<0.5	<1.0	<0.5	<1.00	<0.5	<0.5	<0.5	<1.0	<0.5	<1.00	<0.5	<0.5	<0.5	<0.5	<1.0	**0.6**	**0.5**	<1.00
Styrene	ug/L	--		100 MCL	<0.5	<0.5	<0.5	<0.5	<1.0	<0.5	<1.00	<0.5	<0.5	<0.5	<1.0	<0.5	<1.00	<0.5	<0.5	<0.5	<0.5	<1.0	<0.5	<0.5	<1.00
Tetrachloroethene	ug/L	5	HRL	5 MCL	<0.2	<0.2	<0.2	**1000.0**	<1.0	<0.2	<1.00	**0.4**	<0.2	<0.2	<1.0	**0.2**	<1.00	<0.2	<0.2	<0.2	**0.3**	**130 RC**	**940 RC**	**830 RC**	**51.5**
Tetrahydrofuran	ug/L	--		--	<10	<10	<10	<10	<1.0	<10	<5.00	<10	<10	<10	<1.0	<10	<5.00	<10	<10	<10	<10	<1.0	<10	<10	<5.00
Toluene	ug/L	1000	HRL	1000 MCL	<0.5	<0.5	<0.5	<0.5	<1.0	<0.2	<1.00	<0.5	<0.5	<0.5	<1.0	<0.2	<1.00	<0.5	<0.5	<0.5	<0.5	<1.0	**0.6**	**0.50 J**	<1.00
1,1,1-Trichloroethane	ug/L	200	HRL	200 MCL	<0.2	<0.2	<0.2	<0.2	<1.0	<0.2	<1.00	<0.2	<0.2	<0.2	<1.0	<0.2	<1.00	<0.2	<0.2	<0.2	<0.2	<1.0	<0.2	<0.2	<1.00
1,1,2-Trichloroethane	ug/L	3	HRL	5 MCL	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<1.00	<0.2	<0.2	<0.2	<0.2	<0.2	<1.00	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<1.00
Trichloroethene (TCE)	ug/L	5	HRL	5 MCL	**23.0**	<0.1	<0.1	**690.0**	<1.0	**0.1**	<1.00	**0.2**	**0.3**	**0.4**	<1.0	**0.5**	<1.00	**0.1**	<0.1	**0.3**	<0.1	**130 RC**	**970 RC**	**870 RC**	**62.7**
1,2,4-Trimethylbenzene	ug/L	--		--	<0.5	<0.5	<0.5	<0.5	<1.0	<0.5	<1.00	<0.5	<0.5	<0.5	<1.0	<0.5	<1.00	<0.5	<0.5	<0.5	<0.5	<1.0	<0.5	<0.5	<1.00
1,3,5-Trimethylbenzene	ug/L	--		--	<0.5	<0.5	<0.5	<0.5	<1.0	<0.5	<1.00	<0.5	<0.5	<0.5	<1.0	<0.5	<1.00	<0.5	<0.5	<0.5	<0.5	<1.0	<0.5	<0.5	<1.00
Vinyl Chloride	ug/L	0.2	HRL	2 MCL	**6.2**	<0.2	<0.2	**44.0**	**1.5**	**1.3**	**1.07**	<0.2	**3.5**	**4.7**	**2.7**	**1.5**	**2.07**	<0.2	<0.2	<0.2	<0.2	<1.0	**61.0**	**120 RC**	**51.7**
o-Xylene	ug/L	--		--	<0.2	<0.2	<0.2	<0.2	<1.0	<0.2	<1.00	<0.2	<0.2	<0.2	<1.0	<0.2	<1.00	<0.2	<0.2	<0.2	<0.2	<1.0	<0.2	**0.6**	<1.00
p&m-Xylene	ug/L	--		--	<0.3	<0.3	<0.3	**0.6**	<1.0	<0.3	<2.00	<0.3	<0.3	<0.3	<1.0	<0.3	<2.00	<0.3	<0.3	<0.3	<0.3	<1.0	<0.3	**0.7**	<2.00
Xylene (total)	ug/L	10000	HRL	10000 MCL	<0.5	<0.5	<0.5	**0.8**	<2.0	<0.5	<3.00	<0.5	<0.5	<0.5	<2.0	<0.5	<3.00	<0.5	<0.5	<0.5	<0.5	<2.0	<0.5	**1.3**	<3.00

Notes:

Bold face - detect

0.5	- framed cell - detected concentration exceeds MN drinking water criteria
18	- shaded cell - detected concentration exceeds Federal drinking water criteria
135	- increasing trend in concentrations
37	- decreasing trend in concentrations
???	- Results inconsistent with other results (outlier)

J - The analyte positively identified, below the report level, estimated
QR - Result estimated
RC - Report level was changed due to sample dilution
* - due to new research, the MDH no longer recommends the HRL value - review pending
HBV - Health Based Values derived by Minnesota Department of Health
HRL - Health Risk Level derived and promulgated in rule by Minnesota Department of Health
MCL - Maximum Contaminant Level (USEPA)

Table 1
Groundwater Analytical Results - Drift Wells
St. Louis Park / Edina / Hopkins Groundwater VOC Contamination
STS Project 200804044

						???								???				???					
				Well Name:	P308	P308	P308	P308	P309	P309	P309	P309	P310	P310	P310	P310	P312	P312	P312	P312	W-2	W9	W10	W15
				CWI Name:																				
				MN Unique Well No.:	00462927	00462927	00462927	00462927	00462928	00462928	00462928	00462928	00462929	00462929	00462929	00462929	00462932	00462932	00462932	00462932	00216031	00216037	00216038	,00216043
				Aquifer:	Drift	Drift	Drift	Drift	Drift	Drift	Drift	Drift	Drift	Drift	Drift	Drift	Drift	Drift	Drift	Drift	Drift	Drift	Drift	Drift
				STS Sample ID:																	W-2	W9	W10	W15
				MDH Sample No:		200611313	200710978			200610311	200710962			200611308	200710980			200610313	200710986		200514049	200514042	200514045	200514030
				Sample Date:	4/25/2005	5/8/2006	5/9/2007	4/28/2008	4/25/2005	5/2/2006	5/8/2007	4/29/2008	4/25/2005	5/8/2006	5/10/2007	4/28/2008	4/26/2005	5/2/2006	5/7/2007	4/29/2008	6/3/2005	6/3/2005	6/3/2005	6/2/2005
				Notes:	ENSR Split Sample	ENSR Split Sample	ENSR Split Sample	Collected by Pace for EPA	ENSR Split Sample	ENSR Split Sample	ENSR Split Sample	Collected by Pace for EPA	ENSR Split Sample	ENSR Split Sample	ENSR Split Sample	Collected by Pace for EPA	ENSR Split Sample	ENSR Split Sample	ENSR Split Sample	Collected by Pace for EPA	Discrete Sample	Discrete Sample	Discrete Sample	Discrete Sample
Detected Contaminants		MN Drinking Water Standard		Federal Drinking Water Standards				Pace Sample No.: P308-042808				Pace Sample No.: P309-042908				Pace Sample No.: P310-042808				Pace Sample No.: P312-042908				
Benzene	ug/L	5	HRL	5 MCL	**13.0**	<1.0	**0.5**	<1.00	**1.3**	**2.6**	**5.5**	<5.00	**0.6**	**3.9**	**1.8**	**0.510 J**	<0.2	**7.8**	**10**	**7.05**	<0.2	**14.0**	<0.2	<0.2
n-Butylbenzene	ug/L	--		--	<0.5	<1.0	<0.5	<1.00	<0.5	<1.0	<0.5	<5.00	<0.5	<1.0	<0.5	<1.00	<0.5	<0.5	<0.5	<5.00	<0.5	<0.5	<0.5	<0.5
Chlorodibromoethane	ug/L	--		--	<0.5	<1.0	<0.5	<1.00	<0.5	<1.0	<0.5	<5.00	<0.5	<1.0	<0.5	<1.00	<0.5	<0.5	<0.5	<5.00	<0.5	<0.5	<0.5	<0.5
Chloroethane	ug/L	--		--	<0.5	<1.0	<0.5	<1.00	<0.5	<1.0	<0.5	<5.00	<0.5	<1.0	<0.5	<1.00	<0.5	<0.5	<0.5	<5.00	<0.5	**0.5**	<0.5	<0.5
Chloroform	ug/L	60	HRL	--	<0.1	<1.0	<0.1	<5.00	<0.1	**0.2**	<0.1	<25.00	<0.1	<1.0	**0.078 J**	<5.00	**0.2**	<0.1	<0.1	<25.00	<0.1	**0.1**	<0.1	**0.6**
Chloromethane	ug/L	--		--	<1.0	<1.0	<1.0	<1.00	<1.0	**<1.0**	<1.0	<5.00	<1.0	<1.0	**<1.0**	<1.00	**<1.0**	<1.0	<1.0	<5.00	<1.0	**<1.0**	<1.0	**<1.0**
1,1-Dichloroethane	ug/L	70	HRL	--	**0.3**	<1.0	<0.2	<1.00	<0.2	<1.0	<0.2	<5.00	**0.2**	<1.0	**0.2**	<1.00	<0.2	<0.2	<0.2	<5.00	<0.2	<0.2	<0.2	<0.2
1,2-Dichloroethane	ug/L	4	HRL	5 MCL	**0.5**	<1.0	<0.2	<1.00	<0.2	<1.0	<0.2	<5.00	<0.2	<1.0	<0.2	<1.00	<0.2	<0.2	**0.3**	<5.00	<0.2	<0.2	<0.2	<0.2
1,1-Dichloroethene	ug/L	6	HRL	7 MCL	**12**	<1.0	<0.5	<1.00	<0.2	<1.0	<0.5	<5.00	<0.2	**3.4**	**0.9**	**0.741 J**	<0.2	**5.1**	**6.2**	**3.72 J**	<0.5	<0.5	<0.5	<0.5
cis-1,2-Dichloroethene	ug/L	70	HRL	70 MCL	**2100.0**	**3.5**	**29**	**7.68**	<0.2	**23**	**130 RC**	**207.0**	**0.5**	**810 RC**	**770 RC**	**358.0**	**1.9**	**1500 RC**	**46**	**810.0**	**0.2**	<0.2	<0.2	<0.2
trans-1,2-Dichloroethene	ug/L	100	HRL	100 MCL	**55**	<1.0	**6.0**	**1.51 J**	**1.2**	**6.6**	**6.1**	**5.22 J**	**0.1**	**15**	**11**	**4.68 J**	<0.1	**60**	**60 RC**	**32.0 J**	<0.1	<0.1	<0.1	<0.1
Dichlorodifluoromethane	ug/L	1000	HRL	--	<0.1	<1.0	<1.0	<1.00	<0.1	<1.0	<1.0	<5.00	<0.1	<1.0	<1.0	<1.00	<0.1	<1.0	<1.0	<5.00	<1.0	<1.0	<1.0	<1.0
Dichlorofluoromethane	ug/L	--		--	<0.5	<1.0	<0.5	<1.00	<0.5	<1.0	<0.5	<5.00	<0.5	<1.0	<0.5	<1.00	<0.5	<0.5	<0.5	<5.00	<0.5	<0.5	<0.5	<0.5
Ethylbenzene	ug/L	700	HRL	700 MCL	**1.8**	<1.0	<0.5	<1.00	<0.5	**0.3 J**	**0.40 J**	<5.00	<0.5	<1.0	**0.16 J**	<1.00	<0.5	<0.5	<0.5	<5.00	<0.5	**16**	<0.5	<0.5
Isopropylbenzene	ug/L	300	HRL*	--	**1**	<1.0	<0.5	<1.00	<0.5	<1.0	<0.5	<5.00	<0.5	<1.0	<0.5	<1.00	<0.5	<0.5	**0.50 J**	<5.00	<0.5	**2.9**	<0.5	<0.5
p-Isopropyltoluene	ug/L	--		--	<0.5	<1.0	<0.5	<1.00	<0.5	<1.0	<0.5	<5.00	<0.5	<1.0	<0.5	<1.00	<0.5	<0.5	<0.5	<5.00	<0.5	<0.5	<0.5	<0.5
Methylene chloride (Dichloromethane)	ug/L	5	HRL	5 MCL	<0.5	<1.0	<0.5	<1.00	<0.5	<1.0	<0.5	<5.00	<0.5	<1.0	<0.5	<1.00	<0.5	<0.5	<0.5	<5.00	<0.5	<0.5	<0.5	<0.5
Methyl ethyl ketone	ug/L	4000	HRL	--	<10	<10	<10	<5.00	<10	<10	<10	<25.00	<10	<10	<10	<5.00	<10	<10	**59**	<5.00	<10	<10	<10	<10
Naphthalene	ug/L	300	HRL	--	<1.0	**1.3**	**14**	**1.53 J**	<1.0	**32**	**18 RC**	**4.03 J**	<1.0	**1.4**	**4.5 QR**	**1.42 J**	<1.0	**7.2**	**5.1**	<25.00	<1.0	**660.0**	<1.0	<1.0
n-Propylbenzene	ug/L	--		--	<0.5	<1.0	<0.5	<1.00	<0.5	<1.0	<0.5	<5.00	<0.5	<1.0	<0.5	<1.00	<0.5	<0.5	<0.5	<5.00	<0.5	**0.8**	<0.5	<0.5
Styrene	ug/L	--		100 MCL	<0.5	<1.0	<0.5	<1.00	<0.5	<1.0	<0.5	<5.00	<0.5	<1.0	<0.5	<1.00	<0.5	<0.5	<0.5	<5.00	<0.5	**0.9**	<0.5	<0.5
Tetrachloroethene	ug/L	5	HRL	5 MCL	**560.0**	**5.4**	**39.0**	**4.59**	<0.2	**94.0**	**430 RC**	**789.0**	<0.2	**9.7**	**180 RC**	**55.9**	**3.9**	**7.8**	**1.4**	<5.00	<0.2	<0.2	<0.2	<0.2
Tetrahydrofuran	ug/L	--		--	<10	<1.0	<10	<5.00	<10	<1.0	<10	<25.00	<10	<1.0	<10	<5.00	<10	<10	<10	<25.00	<10	<10	<10	<10
Toluene	ug/L	1000	HRL	1000 MCL	<0.5	<1.0	**0.13 J**	<1.00	<0.5	<1.0	**0.23 J**	<5.00	<0.5	<1.0	**0.27 J**	<1.00	<0.5	<0.2	**0.22 J**	<5.00	<0.5	**1.2**	<0.5	<0.5
1,1,1-Trichloroethane	ug/L	200	HRL	200 MCL	<0.2	<1.0	<0.2	<1.00	<0.2	<1.0	<0.2	<5.00	<0.2	<1.0	<0.2	<1.00	<0.2	<0.2	<0.2	<5.00	<0.2	<0.2	<0.2	<0.2
1,1,2-Trichloroethane	ug/L	3	HRL	5 MCL	<0.2	<0.2	<0.2	<1.00	<0.2	<0.2	<0.2	<5.00	<0.2	<0.2	<0.2	<1.00	<0.2	<0.2	<0.2	<5.00	<0.2	<0.2	<0.2	<0.2
Trichloroethene (TCE)	ug/L	5	HRL	5 MCL	**420.0**	**6.1**	**68.0**	**9.22**	<0.1	**69.0**	**210 RC**	**286.0**	<0.1	**15**	**130 RC**	**55.7**	**2.5**	**3.5**	**1.4**	<5.00	<0.1	<0.1	<0.1	<0.1
1,2,4-Trimethylbenzene	ug/L	--		--	<0.5	<1.0	<0.5	<1.00	<0.5	<1.0	**0.32 J**	<5.00	<0.5	<1.0	<0.5	<1.00	<0.5	<0.5	<0.5	<5.00	<0.5	**14**	<0.5	<0.5
1,3,5-Trimethylbenzene	ug/L	--		--	<0.5	<1.0	<0.5	<1.00	<0.5	<1.0	<0.5	<5.00	<0.5	<1.0	<0.5	<1.00	<0.5	<0.5	<0.5	<5.00	<0.5	**2.0**	<0.5	<0.5
Vinyl Chloride	ug/L	0.2	HRL	2 MCL	**130.0**	<1.0	**0.8**	<1.00	**1.5**	**4.0**	<0.2	**4.55 J**	**2.1**	**50.0**	**170 RC**	**59.8**	<0.2	**120.0**	**190 RC**	**153.0**	<0.2	<0.2	<0.2	<0.2
o-Xylene	ug/L	--		--	<0.2	<1.0	<0.2	<1.00	<0.2	**0.13 J**	<0.2	<5.00	<0.2	<1.0	<0.2	<1.00	<0.2	<0.2	<0.2	<5.00	<0.2	**17**	<0.2	<0.2
p&m-Xylene	ug/L	--		--	**0.8**	<1.0	<0.3	<2.00	<0.3	**0.4**	<0.3	<10.00	<0.3	<1.0	**0.12 J**	<2.00	<0.3	<0.3	<0.3	<10.00	<0.3	**11**	<0.3	<0.3
Xylene (total)	ug/L	10000	HRL	10000 MCL	**1.0**	<2.0	<0.5	<3.00	<0.5	**0.53**	<0.5	<15.00	<0.5	<2.0	**0.32**	<3.00	<0.5	<0.5	<0.5	<15.00	<0.5	**28**	<0.5	<0.5

Notes:

Bold face - detect

0.5	- framed cell - detected concentration exceeds MN drinking water criteria
18	- shaded cell - detected concentration exceeds Federal drinking water criteria
135	- increasing trend in concentrations
37	- decreasing trend in concentrations
???	- Results inconsistent with other results (outlier)

J - The analyte positively identified, below the report level, estimated
QR - Result estimated
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* - due to new research, the MDH no longer recommends the HRL value - review pending
HBV - Health Based Values derived by Minnesota Department of Health
HRL - Health Risk Level derived and promulgated in rule by Minnesota Department of Health
MCL - Maximum Contaminant Level (USEPA)

Table 1
Groundwater Analytical Results - Drift Wells
St. Louis Park / Edina / Hopkins Groundwater VOC Contamination
STS Project 200804044

								???						???	???							
			Well Name:	W16	W17	W22	W117	W117	W117	W117	W128	W128	W136	W136 - DUP	W136	W136	W136	W420	W420	W420	W420	W420
			CWI Name:															W420 - U.S.G.S. WELL NO. 100				
			MN Unique Well No.:	00216044	00216044	00200993	00160031	00160031	00160031	00160031	00165583	00165583	00165591	00165591	00165591	00165591	00165591	00434405	00434045	00434045	00434045	00434045
			Aquifer:	Drift	Drift	Drift	Drift	Drift	Drift	Drift	Drift	Drift	Drift	Drift	Drift	Drift	Drift	Drift	Drift	Drift	Drift	Drift
			STS Sample ID:	W16	W17	W22												SLP 420				
			MDH Sample No:	200514043	200514047	200514041		200611311	200710973		200710966				200610312	200710988		200432995		200610295	200710990	
			Sample Date:	6/3/2005	6/3/2005	6/3/2005	4/26/2005	5/8/2006	5/9/2007	4/28/2008	5/8/2007	4/29/2008	4/26/2005	4/26/2005	5/2/2006	5/7/2007	4/29/2008	12/9/2004	5/2/2005	5/2/2006	5/7/2007	4/28/2008
			Notes:	Discrete Sample	Discrete Sample, Duplicate	Discrete Sample	ENSR Split Sample	ENSR Split Sample	ENSR Split Sample	Collected by Pace for EPA	ENSR Split Sample	Collected by Pace for EPA	ENSR Split Sample	ENSR Split Sample	ENSR Split Sample	ENSR Split Sample	Collected by Pace for EPA	Spigot Water Sample	ENSR Split Sample	ENSR Split Sample	ENSR Split Sample	Collected by Pace for EPA
Detected Contaminants		MN Drinking Water Standard	Federal Drinking Water Standards							Pace Sample No.: W117-042808		Pace Sample No.: W128-042908					Pace Sample No.: W136-042908					Pace Sample No.: W420-042808
Benzene	ug/L	5 HRL	5 MCL	<0.2	<0.2	**0.8**	**8.2**	**1.2**	**1.6**	**0.623 J**	**0.12 J**	<1.00	**16.0**	**18.0**	<0.2	<0.2	<1.00	**84.0**	**100.0**	**80.0**	<0.2	**63.4**
n-Butylbenzene	ug/L	--	--	<0.5	<0.5	<0.5	<0.5	<1.0	<0.5	<1.00	<0.5	<1.00	<0.5	<0.5	<0.5	<0.5	<1.00	<0.5	<0.5	<0.5	<0.5	<20.0
Chlorodibromoethane	ug/L	--	--	<0.5	<0.5	<0.5	<0.5	<1.0	<0.5	<1.00	<0.5	<1.00	**0.5**	<0.5	<0.5	<0.5	<1.00	<0.5	<0.5	<0.5	<0.5	<20.0
Chloroethane	ug/L	--	--	<0.5	<0.5	<0.5	<0.5	<1.0	<0.5	<1.00	<0.5	<1.00	**2.3**	<0.5	<0.5	<0.5	<1.00	<0.5	**0.5**	**0.5 J**	<0.5	<20.0
Chloroform	ug/L	60 HRL	--	<0.1	<0.1	<0.1	<0.1	<1.0	<0.1	<5.00	<0.1	<5.00	<0.1	<0.1	<0.1	<0.1	<5.00	<0.1	**0.1**	<0.1	<0.1	<100.0
Chloromethane	ug/L	--	--	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.00	<1.0	<1.00	<1.0	<1.0	<1.0	<1.0	<1.00	<1.0	**<1.0**	<1.0	<1.0	<20.0
1,1-Dichloroethane	ug/L	70 HRL	--	<0.2	<0.2	<0.2	<0.2	<1.0	**0.13 J**	<1.00	<0.2	<1.00	<0.2	<0.2	<0.2	<0.2	<1.00	**0.5**	<0.2	**0.5**	**0.6**	<20.0
1,2-Dichloroethane	ug/L	4 HRL	5 MCL	<0.2	<0.2	<0.2	<0.2	<1.0	**0.2**	<1.00	<0.2	<1.00	**0.4**	<0.2	<0.2	<0.2	<1.00	<0.2	<0.2	<0.2	<0.2	<20.0
1,1-Dichloroethene	ug/L	6 HRL	7 MCL	<0.5	<0.5	<0.5	**1.3**	<1.0	<0.5	<1.00	<0.5	<1.00	**2.3**	<0.2	<0.5	<0.5	<1.00	<0.5	**0.4**	**0.3 J**	**0.8**	<20.0
cis-1,2-Dichloroethene	ug/L	70 HRL	70 MCL	<0.2	<0.2	<0.2	**330.0**	**1.5**	**21**	<1.00	**0.3**	**9.43**	**630.0**	**590.0**	<0.2	**1.8**	**1.12**	**21**	**28**	**45**	**150 RC**	**120**
trans-1,2-Dichloroethene	ug/L	100 HRL	100 MCL	<0.1	<0.1	<0.1	**13**	**1.7**	**5.9**	**1.51 J**	<0.1	<1.00 J	**74**	**76**	<0.1	<0.1	<1.00 U	**18**	**23**	**23**	**39**	**19.1 J**
Dichlorodifluoromethane	ug/L	1000 HRL	--	<1.0	<1.0	<1.0	<0.1	<1.0	<1.0	<1.00	<1.0	<1.00	<0.1	<0.1	<1.0	<1.0	<1.00	<1.0	<0.1	<1.0	**5.1 QR**	<20.0
Dichlorofluoromethane	ug/L	--	--	<0.5	<0.5	<0.5	<0.5	<1.0	<0.5	<1.00	**0.45 J**	**0.945 J**	<0.5	<0.5	<0.5	<0.5	<1.00	<0.5	<0.5	<0.5	<0.5	<20.0
Ethylbenzene	ug/L	700 HRL	700 MCL	<0.5	<0.5	**0.6**	**1.6**	<1.0	<0.5	<1.00	<0.5	<1.00	**24**	**24**	<0.5	<0.5	<1.00	**98**	**51**	**90 RC**	<0.5	**66.4**
Isopropylbenzene	ug/L	300 HRL*	--	<0.5	<0.5	<0.5	<0.5	<1.0	<0.5	<1.00	<0.5	<1.00	**2.6**	**2.8**	<0.5	<0.5	<1.00	**9.9**	**9.6**	**8.8**	<0.5	<20.0
p-Isopropyltoluene	ug/L	--	--	<0.5	<0.5	<0.5	<0.5	<1.0	<0.5	<1.00	<0.5	<1.00	<0.5	<0.5	<0.5	<0.5	<1.00	**2.2**	<0.5	<0.5	<0.5	<20.0
Methylene chloride (Dichloromethane)	ug/L	5 HRL	5 MCL	<0.5	<0.5	<0.5	<0.5	<1.0	<0.5	<1.00	<0.5	<1.00	<0.5	<0.5	<0.5	<0.5	<1.00	<0.5	<0.5	<0.5	<0.5	<20.0
Methyl ethyl ketone	ug/L	4000 HRL	--	<10	<10	<10	<10	<10	<10	<5.00	<10	<1.00	<10	<10	<10	<10	<5.00	<10	<10	<10	<10	<100.0
Naphthalene	ug/L	300 HRL	--	<1.0	<1.0	**2.7**	**4**	<1.0	<1.0	<5.00	<1.0	<5.00	**7.5**	**3.5**	**1.4**	**15**	<5.00	**2400.0**	**3100.0**	**3200.0**	**2500 RC**	**1530 J**
n-Propylbenzene	ug/L	--	--	<0.5	<0.5	<0.5	<0.5	<1.0	<0.5	<1.00	<0.5	<1.00	**0.8**	**0.9**	<0.5	<0.5	<1.00	3.8	2.8	2.7	2.5	<20.0
Styrene	ug/L	--	100 MCL	<0.5	<0.5	<0.5	<0.5	<1.0	<0.5	<1.00	<0.5	<1.00	<0.5	<0.5	<0.5	<0.5	<1.00	**1.9**	<0.5	<0.5	<0.5	<20.0
Tetrachloroethene	ug/L	5 HRL	5 MCL	<0.2	<0.2	<0.2	**11.0**	<1.0	**0.080 J**	<1.00	**0.3**	<1.00	**2800.0**	**2700.0**	**1.2**	**14**	**0.615 J**	<0.2	<0.2	<0.2	**0.3**	<20.0
Tetrahydrofuran	ug/L	--	--	<10	<10	<10	<10	<1.0	<10	<5.00	<10	<5.00	<10	<10	<10	<10	<5.00	<10	<10	<10	<10	<100.0
Toluene	ug/L	1000 HRL	1000 MCL	**1.1**	**1.1**	**4.3**	<0.5	<1.0	<0.2	<1.00	<0.2	<1.00	**0.8**	**0.9**	<0.2	<0.2	<1.00	4.4	3.8	2.7	2.7	<20.0
1,1,1-Trichloroethane	ug/L	200 HRL	200 MCL	<0.2	<0.2	<0.2	<0.2	<1.0	<0.2	<1.00	<0.2	<1.00	<0.2	<0.2	<0.2	<0.2	<1.00	<0.2	<0.2	<0.2	<0.2	<20.0
1,1,2-Trichloroethane	ug/L	3 HRL	5 MCL	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<1.00	<0.2	<1.00	<0.2	<0.2	<0.2	<0.2	<1.00	<0.2	<0.2	<0.2	<0.2	<20.0
Trichloroethene (TCE)	ug/L	5 HRL	5 MCL	<0.1	<0.1	<0.1	**5.3**	<1.0	**0.4**	<1.00	**0.3**	**0.984 J**	**1900.0**	**1800.0**	**0.5**	**9.7**	**0.599 J**	**2.6**	**1.7**	**0.3**	**0.5**	<20.0
1,2,4-Trimethylbenzene	ug/L	--	--	<0.5	<0.5	<0.5	<0.5	<1.0	<0.5	<1.00	<0.5	<1.00	<0.5	<0.5	<0.5	<0.5	<1.00	**35**	**46**	<0.5	**35**	**25.9**
1,3,5-Trimethylbenzene	ug/L	--	--	<0.5	<0.5	<0.5	<0.5	<1.0	<0.5	<1.00	<0.5	<1.00	**0.6**	**0.6**	<0.5	<0.5	<1.00	**15**	**16**	**11**	**12**	<20.0
Vinyl Chloride	ug/L	0.2 HRL	2 MCL	<0.2	<0.2	<0.2	**160.0**	**1.2**	**1.7**	<1.00	<0.2	<1.00	**62.0**	**63.0**	<0.2	<0.2	<1.00	8.7	12.0	20.0	50 RC	46.9
o-Xylene	ug/L	--	--	<0.2	<0.2	**0.4**	**0.5**	<1.0	<0.2	<1.00	<0.2	<1.00	**1.1**	**1.2**	<0.2	<0.2	<1.00	**51**	**60**	**50 RC**	**40 RC**	**35.4**
p&m-Xylene	ug/L	--	--	<0.3	<0.3	**0.3**	**0.8**	<1.0	<0.3	<2.00	<0.3	<2.00	**1.4**	**1.4**	<0.3	<0.3	<2.00	**98**	**100**	**90 RC**	**70 RC**	**65.8**
Xylene (total)	ug/L	10000 HRL	10000 MCL	<0.5	<0.5	**0.7**	**1.3**	<2.0	<0.5	<3.00	<0.5	<3.00	**2.5**	**2.6**	<0.5	<0.5	<3.00	**149**	**160**	**140 RC**	**110 RC**	**101.2**

Notes:

Bold face - detect

0.5	- framed cell - detected concentration exceeds MN drinking water criteria
18	- shaded cell - detected concentration exceeds Federal drinking water criteria
135	- increasing trend in concentrations
37	- decreasing trend in concentrations
???	- Results inconsistent with other results (outlier)

J - The analyte positively identified, below the report level, estimated
QR - Result estimated
RC - Report level was changed due to sample dilution
* - due to new research, the MDH no longer recommends the HRL value - review pending
HBV - Health Based Values derived by Minnesota Department of Health
HRL - Health Risk Level derived and promulgated in rule by Minnesota Department of Health
MCL - Maximum Contaminant Level (USEPA)

Table 1
Groundwater Analytical Results - Drift Wells
St. Louis Park / Edina / Hopkins Groundwater VOC Contamination
STS Project 200804044

						???																
				Well Name:	W422	W422	W422	W422	W423	W425	W427	W427	W427	W427	W427-DUP	W439 - U.S.G.S. NO. 135	W439	W439	W439	W439	R. REED II	Nine Mile Creek
				CWI Name:												W439 - U.S.G.S. NO. 135					JAMES HILDRETH	--
				MN Unique Well No.:	00434043	00434043	00434043	00434043	00439813	00439813	00439811	00439811	00439811	00439811	00439811	00538134	00538134	00538134	00538134	00538134	00218194	--
				Aquifer:	Drift	Drift	Drift	Drift	Drift	Drift	Drift	Drift	Drift	Drift	Drift	Drift	Drift	Drift	Drift	Drift	Drift	
				STS Sample ID:					W423	W425						SLP 439					6223 Westridge Blvd	Nine Mile Creek near Thermotech 1202
				MDH Sample No:		200610315	200710985		200514029	200514036		200611309	200710979			200432994		200611304	200710975		200532479	200603046
				Sample Date:	4/26/2005	5/2/2006	5/7/2007	4/29/2008	6/2/2005	6/2/2005	4/26/2005	5/8/2006	5/9/2007	4/28/2008	4/28/2008	12/9/2004	4/25/2005	5/8/2006	5/9/2007	4/28/2008	12/1/2005	2/10/2006
				Notes:	ENSR Split Sample, questionable sample	ENSR Split Sample	ENSR Split Sample	Collected by Pace for EPA	Discrete Sample	Discrete Sample, Duplicate	ENSR Split Sample	ENSR Split Sample	ENSR Split Sample	Collected by Pace for EPA	Collected by Pace for EPA	Spigot Water Sample	ENSR Split Sample	ENSR Split Sample	ENSR Split Sample	Collected by Pace for EPA	Spigot Water Sample	Grab Water Sample
Detected Contaminants		MN Drinking Water Standard		Federal Drinking Water Standards				Pace Sample No.: W422-042908						Pace Sample No.: W427-042808	Pace Sample No.: W427D-042808					Pace Sample No.: W439-042808		
Benzene	ug/L	5	HRL	5 MCL	**55.0**	**0.2 J**	**0.15 J**	**3.34**	<0.2	<0.2	**0.4**	<1.0	<0.2	<1.00	<1.00	**71.0**	<0.2	**70.0**	**54 RC**	**74.4**	<0.2	<0.2
n-Butylbenzene	ug/L	--		--	**1.9**	<0.5	<0.5	<1.00	<0.5	<0.5	<0.5	<1.0	<0.5	<1.00	<1.00	<0.5	<0.5	<1.0	<0.5	<10.0	<0.5	<0.5
Chlorodibromoethane	ug/L	--		--	<0.5	<0.5	<0.5	<1.00	<0.5	<0.5	<0.5	<1.0	<0.5	<1.00	<1.00	<0.5	<0.5	<1.0	<0.5	<10.0	<0.5	<0.5
Chloroethane	ug/L	--		--	<0.5	<0.5	<0.5	<1.00	<0.5	<0.5	<0.5	<1.0	<0.5	<1.00	<1.00	<0.5	<0.5	<1.0	<0.5	<10.0	<0.5	<0.5
Chloroform	ug/L	60	HRL	--	<0.1	<0.1	<0.1	<5.00	<0.1	<0.1	<0.1	<1.0	<0.1	<5.00	<5.00	<0.1	0.1	<1.0	<0.1	<50.0	<0.1	<0.1
Chloromethane	ug/L	--		--	<1.0	<1.0	<1.0	<1.00	<1.0	<1.0	<1.0	<1.0	<1.0	<1.00	<1.00	<1.0	<1.0	<1.0	<1.0	<10.0	<1.0	<1.0
1,1-Dichloroethane	ug/L	70	HRL	--	<0.2	**0.4**	**0.3**	<1.00	<0.2	<0.2	<0.2	<1.0	<0.2	<1.00	<1.00	<0.2	0.4	<1.0	<0.2	<10.0	<0.2	<0.2
1,2-Dichloroethane	ug/L	4	HRL	5 MCL	<0.2	**0.3**	**0.3**	<1.00	<0.2	<0.2	**0.4**	<1.0	<0.2	<1.00	<1.00	<0.2	<0.2	<1.0	<0.2	<10.0	<0.2	<0.2
1,1-Dichloroethene	ug/L	6	HRL	7 MCL	<0.2	<0.5	<0.5	<1.00	<0.5	<0.5	**0.9**	<1.0	<0.5	<1.00	<1.00	<0.5	<0.2	<1.0	<0.5	<10.0	<0.5	<0.5
cis-1,2-Dichloroethene	ug/L	70	HRL	70 MCL	**4.7**	**0.7**	**1.1**	**3.69**	<0.2	<0.2	**4.1**	**0.5 J**	**1.3**	**1.45**	**1.29**	**2.3**	**0.6**	**1.8**	**2.1**	<10.0	<0.2	**0.5**
trans-1,2-Dichloroethene	ug/L	100	HRL	100 MCL	**1.1**	**0.5**	**1.2**	**1.22 J**	<0.1	<0.1	<0.1	<1.0	**0.1**	<1.00 J	<1.00 J	**1.0**	**0.3**	**1.3**	**0.7**	<10.0 J	<0.1	<0.1
Dichlorodifluoromethane	ug/L	1000	HRL	--	<0.1	**1.6**	<1.0	<1.00	<1.0	<1.0	<0.1	<1.0	<1.0	<1.00	<1.00	<1.0	2.4	<1.0	<1.0	<10.0	<1.0	<1.0
Dichlorofluoromethane	ug/L	--		--	<0.5	**3.0**	**2.2**	<1.00	<0.5	<0.5	<0.5	<1.0	<0.5	<1.00	<1.00	<0.5	3	<1.0	<0.5	<10.0	<0.5	<0.5
Ethylbenzene	ug/L	700	HRL	700 MCL	**110**	<0.5	<0.5	**3.75**	<0.5	<0.5	<0.5	<1.0	<0.5	<1.00	<1.00	**110**	**<0.5**	**93**	**78 RC**	**142**	<0.5	<0.5
Isopropylbenzene	ug/L	300	HRL*	--	**12**	<0.5	<0.5	<1.00	<0.5	<0.5	<0.5	<1.0	<0.5	<1.00	<1.00	**11**	**<0.5**	**9.5**	**8.3**	**10.4**	<0.5	<0.5
p-Isopropyltoluene	ug/L	--		--	**1.2**	<0.5	<0.5	<1.00	<0.5	<0.5	<0.5	<1.0	<0.5	<1.00	<1.00	<0.5	<0.5	**0.9 J**	**0.6**	<10.0	<0.5	<0.5
Methylene chloride (Dichloromethane)	ug/L	5	HRL	5 MCL	<0.5	<0.5	<0.5	<1.00	<0.5	<0.5	<0.5	<1.0	<0.5	<1.00	<1.00	<0.5	<0.5	<1.0	<0.5	<10.0	<0.5	<0.5
Methyl ethyl ketone	ug/L	4000	HRL	--	<10	<10	<10	<5.00	<10	<10	<10	<10	<10	<5.00	<5.00	<10	<10	<10	<10	<25.0	<10	<10
Naphthalene	ug/L	300	HRL	--	**1100.0**	**0.6 J**	**0.629 J**	<5.00	<1.0	<1.0	**14**	<1.0	<1.0	<5.00	<5.00	**1000.0**	<1.0	**780.0**	**800 RC**	**1010 J**	<1.0	<1.0
n-Propylbenzene	ug/L	--		--	**8.9**	<0.5	<0.5	<1.00	<0.5	<0.5	<0.5	<1.0	<0.5	<1.00	<1.00	**9.8**	**<0.5**	**7.1**	**4.3**	<10.0	<0.5	<0.5
Styrene	ug/L	--		100 MCL	**3.6**	<0.5	<0.5	<1.00	<0.5	<0.5	<0.5	<1.0	<0.5	<1.00	<1.00	<0.5	<0.5	<1.0	<0.5	<10.0	<0.5	<0.5
Tetrachloroethene	ug/L	5	HRL	5 MCL	**1.6**	**0.2 J**	**0.13 J**	<1.00	<0.2	<0.2	**5**	**2.0**	**3.3**	**1.07**	**1.09**	<0.2	<0.2	<1.0	**0.3**	<10.0	<0.2	**3.4**
Tetrahydrofuran	ug/L	--		--	<10	<10	<10	<5.00	<10	<10	<10	<1.0	<10	<5.00	<5.00	<10	<10	<1.0	<10	<50.0	<10	<10
Toluene	ug/L	1000	HRL	1000 MCL	**5.4**	<0.2	<0.2	<1.00	**2.6**	**3.6**	<0.5	<1.0	<0.2	<1.00	<1.00	**8.1**	**<0.5**	**3.3**	**2.6**	**7.38 J**	<0.2	<0.2
1,1,1-Trichloroethane	ug/L	200	HRL	200 MCL	<0.2	**0.1 J**	<0.2	<1.00	<0.2	<0.2	<0.2	<1.0	<0.2	<1.00	<1.00	<0.2	<0.2	<1.0	<0.2	<10.0	<0.2	<0.2
1,1,2-Trichloroethane	ug/L	3	HRL	5 MCL	<0.2	<0.2	**0.12 J**	<1.00	<0.2	<0.2	<0.2	<0.2	<0.2	<1.00	<1.00	<0.2	<0.2	<0.2	<0.2	<10.0	<0.2	<0.2
Trichloroethene (TCE)	ug/L	5	HRL	5 MCL	**0.9**	**0.3**	**0.5**	**3.19**	<0.1	<0.1	**0.6**	**1.6**	**1.7**	**0.806 J**	**0.818 J**	**0.1**	**0.2**	<1.0	**0.7**	<10.0	<0.1	**0.9**
1,2,4-Trimethylbenzene	ug/L	--		--	**84**	<0.5	<0.5	<1.00	<0.5	<0.5	<0.5	<1.0	<0.5	<1.00	<1.00	**43**	**<0.5**	**70**	**35**	**76.9**	<0.5	<0.5
1,3,5-Trimethylbenzene	ug/L	--		--	**13**	<0.5	<0.5	<1.00	<0.5	<0.5	<0.5	<1.0	<0.5	<1.00	<1.00	**8.5**	**<0.5**	**6.4**	**3.1**	<10.0	<0.5	<0.5
Vinyl Chloride	ug/L	0.2	HRL	2 MCL	**1.9**	**1.0**	**1.3**	<1.00	<0.2	<0.2	**6.1**	<1.0	<0.2	<1.00	<1.00	**1.9**	**1.2**	**1.4**	**0.7**	<10.0	<0.2	<0.2
o-Xylene	ug/L	--		--	**88**	<0.2	<0.2	**0.993 J**	<0.2	<0.2	<0.2	<1.0	<0.2	<1.00	<1.00	**74**	**<0.2**	**68**	**46**	**107**	<0.2	<0.2
p&m-Xylene	ug/L	--		--	**97**	<0.3	<0.3	<2.00	<0.3	<0.3	**0.3**	<1.0	<0.3	<2.00	<2.00	**120**	**<0.3**	**75**	**57**	**136**	<0.3	<0.3
Xylene (total)	ug/L	10000	HRL	10000 MCL	**185**	<0.5	<0.5	**2.993 J**	<0.5	<0.5	**0.5**	<1.0	<0.5	<3.00	<3.00	**194**	**<0.5**	**143**	**103**	**243**	<0.5	<0.5

Notes:

Bold face - detect

0.5 - framed cell - detected concentration exceeds MN drinking water criteria

18 - shaded cell - detected concentration exceeds Federal drinking water criteria

135 - increasing trend in concentrations

37 - decreasing trend in concentrations

??? - Results inconsistent with other results (outlier)

J - The analyte positively identified, below the report level, estimated
QR - Result estimated
RC - Report level was changed due to sample dilution
* - due to new research, the MDH no longer recommends the HRL value - review pending
HBV - Health Based Values derived by Minnesota Department of Health
HRL - Health Risk Level derived and promulgated in rule by Minnesota Department of Health
MCL - Maximum Contaminant Level (USEPA)

Table 2
Groundwater Analytical Results - Platteville Formation Wells
St. Louis Park / Edina / Hopkins Groundwater VOC Contamination
STS Project 200804044

					Well Name:	W18	W20	W20	W20	W20	W27	W27	W27	W27	P 62	W101	W101	W101	W101-DUP	W101	W120	W120	W124
					CWI Name:																		
					MN Unique Well No.:	00216046	00216048	00216048	00216048	00216048	00216052	00216052	00216052	00216052	00227948	00149711	00149711	00149711	00149711	00149711	00165576	00165576	00165579
					Aquifer:	Platteville	Platteville	Platteville	Platteville	Platteville	Platteville	Platteville	Platteville	Platteville	Platteville	Platteville	Platteville	Platteville	Platteville	Platteville	Platteville	Platteville	Platteville
					STS Sample ID:	W18									P 62								W124
					MDH Sample No:	200514048		200610318	200710989				200710983		200514034		200610319	200710982	200710997		200710987		200514035
					Sample Date:	6/3/2005	5/2/2005	5/2/2006	5/7/2007	5/12/2008	5/2/2005	5/2/2005	5/7/2007	5/12/2008	6/2/2005	5/2/2005	5/2/2006	5/7/2007	5/7/2007	5/13/2008	5/7/2007	5/12/2008	6/2/2005
					Notes:	Discrete Sample	ENSR Split Sample	ENSR Split Sample	ENSR Split Sample	Collected by Pace for EPA	ENSR Split Sample	ENSR Split Sample	ENSR Split Sample	Collected by Pace for EPA	Discrete Sample	ENSR Split Sample	ENSR Split Sample	ENSR Split Sample	ENSR Split Sample	Collected by Pace for EPA	ENSR Split Sample	Collected by Pace for EPA	Discrete Sample
Detected Contaminants		MN Drinking Water Standard		Federal Drinking Water Standards						Pace Sample No.: W20-051208				Pace Sample No.: W27-051208						Pace Sample No.: W101-051308		Pace Sample No.: W120-051208	
Benzene	ug/L	5	HRL	5	MCL	**6.1**	0.9	0.5	0.4	<1.0	**39.0**	**36.0**	**23.0**	**62.5**	**0.3**	13.0	8.0	6.3	6.5	3.72	**5.1**	**0.792 J**	<0.2
n-Butylbenzene	ug/L	--		--		<0.5	<0.5	<0.5	<0.5	<1.0	<0.5	<0.5	<0.5	<1.0	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	<0.5	<1.0	<0.5
Chlorodibromoethane	ug/L	--		--		<0.5	<0.5	<0.5	<0.5	<1.0	<0.5	<0.5	<0.5	<1.0	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	<0.5	<1.0	<0.5
Chloroethane	ug/L	--		--		<0.5	<0.5	<0.5	<0.5	<1.0	<0.5	<0.5	<0.5	<1.0	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	<0.5	<1.0	<0.5
Chloroform	ug/L	60	HRL	--		<0.1	**0.1**	<0.1	<0.1	<5.0	**0.1**	<0.1	<0.1	<5.0	<0.1	**0.1**	<0.1	<0.1	<0.1	<5.0	<0.1	<5.0	<0.1
1,1-Dichloroethane	ug/L	70	HRL	--		<0.2	<0.2	<0.2	<0.2	<1.0	<0.2	<0.2	<0.2	<1.0	<0.2	0.3	0.2	0.18 J	0.18 J	<1.0	<0.2	<1.0	**0.6**
1,2-Dichloroethane	ug/L	4	HRL	5	MCL	<0.2	<0.2	<0.2	<0.2	<1.0	<0.2	<0.2	<0.2	<1.0	<0.2	<0.2	**0.6**	<0.2	<0.2	<1.0	<0.2	<1.0	<0.2
1,1-Dichloroethene	ug/L	6	HRL	7	MCL	<0.5	<0.2	<0.2	<0.2	<1.0	<0.2	<0.2	<0.2	<1.0	<0.5	<0.2	<0.2	<0.2	<0.2	<1.0	**0.5**	<1.0	<0.5
cis-1,2-Dichloroethene	ug/L	70	HRL	70	MCL	**7.2**	**1**	**0.9**	**0.4**	**1.37**	<0.2	**0.1 J**	<0.2	<1.0	**0.8**	**0.8**	**18**	**19**	**32**	<1.0	**110 RC**	**16.2**	<0.2
trans-1,2-Dichloroethene	ug/L	100	HRL	100	MCL	**11**	<0.1	<0.1	<0.1	<1.0	<0.1	<0.1	<0.1	<1.0	**0.2**	**1.8**	**8.4**	**7.5**	**11**	**1.52**	**12**	**1.42**	<0.1
Dichlorodifluoromethane	ug/L	1000	HRL	--		<1.0	<0.1	<0.1	<0.1	<1.0	<0.1	<0.1	<0.1	<1.0	<1.0	<0.1	<0.1	<0.1	<0.1	<1.0	<0.1	<1.0	<1.0
Dichlorofluoromethane	ug/L	--		--		<0.5	<0.5	<0.5	<0.5	<1.0	<0.5	<0.5	<0.5	<1.0	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	<0.5	<1.0	<0.5
Ethylbenzene	ug/L	700	HRL	700	MCL	<0.5	<0.5	<0.5	<0.5	<1.0	**15**	**11**	**9.6**	**6.51**	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	<0.5	<1.0	<0.5
Isopropylbenzene	ug/L	300	HRL*	--		<0.5	<0.5	<0.5	<0.5	<1.0	**2.2**	**1.8**	**2.0**	**1.92**	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	<0.5	<1.0	<0.5
p-Isopropyltoluene	ug/L	--		--		<0.5	<0.5	<0.5	<0.5	<1.0	<0.5	<0.5	<0.5	<1.0	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	<0.5	<1.0	<0.5
Methylene chloride (Dichloromethane)	ug/L	5	HRL	5	MCL	<0.5	<0.5	<0.5	<0.5	<1.0	<0.5	<0.5	<0.5	<1.0	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	<0.5	<1.0	<0.5
Naphthalene	ug/L	300	HRL	--		<1.0	2.5	1.5	<1.0	<5.0	**22**	**5.3**	**5.9**	**1.03 J**	<1.0	**29**	**0.6 J**	<1.0	<1.0	<5.0	**2.0**	<5.0	<1.0
n-Propylbenzene	ug/L	--		--		<0.5	<0.5	<0.5	<0.5	<1.0	**0.5**	**0.3 J**	**0.47 J**	<1.0	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	<0.5	<1.0	<0.5
Styrene	ug/L	--		100	MCL	<0.5	<0.5	<0.5	<0.5	<1.0	<0.5	<0.5	<0.5	<1.0	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	<0.5	<1.0	<0.5
Tetrachloroethene	ug/L	5	HRL	5	MCL	<0.2	**5.1**	**0.9**	**<0.2**	**0.517 J**	<0.2	<0.2	<0.2	<1.0	<0.2	<0.2	<0.2	<0.2	<0.2	<1.0	**0.6**	<1.0	<0.2
Tetrahydrofuran	ug/L	--		--		<10	<10	<10	<10	<5.0	<10	<10	<10	<5.0	<10	<10	<10	<10	<10	<5.0	<10	<5.0	<10
Toluene	ug/L	1000	HRL	1000	MCL	**0.5**	<0.5	<0.5	<0.5	<1.0	<0.5	<0.5	**0.30 J**	<1.0	<0.5	<0.5	<0.5	**0.19 J**	**0.17 J**	<1.0	**0.15 J**	<1.0	<0.5
1,1,1-Trichloroethane	ug/L	200	HRL	200	MCL	<0.2	<0.2	<0.2	<0.2	<1.0	<0.2	<0.2	<0.2	<1.0	<0.2	<0.2	<0.2	<0.2	<0.2	<1.0	<0.2	<1.0	<0.2
Trichloroethene (TCE)	ug/L	5	HRL	5	MCL	**0.6**	**2.9**	**1.3**	**0.3**	**3.24**	<0.1	**0.1**	<0.1	<1.0	<0.1	<0.1	**0.2**	**0.1**	**0.2**	<1.0	**1.3**	<1.0	<0.1
1,2,4-Trimethylbenzene	ug/L	--		--		<0.5	<0.5	<0.5	<0.5	<1.0	**0.6**	<0.5	<0.5	<1.0	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	<0.5	<1.0	<0.5
1,3,5-Trimethylbenzene	ug/L	--		--		<0.5	<0.5	<0.5	<0.5	<1.0	**0.5**	<0.5	<0.5	<1.0	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	<0.5	<1.0	<0.5
Vinyl Chloride	ug/L	0.2	HRL	2	MCL	**3.8**	**0.4**	**0.1 J**	**0.2**	<1.0	<0.2	<0.2	<0.2	<1.0	**0.2**	**0.6**	**2.0**	**2.5**	**3.6**	<1.0	**33.0**	**2.53**	<0.2
o-Xylene	ug/L	--		--		<0.2	<0.2	<0.2	<0.2	<1.0	**3**	**1.4**	**1.1**	<1.0	<0.2	**0.7**	**0.4**	<0.2	<0.2	<1.0	<0.2	<1.0	<0.2
p&m-Xylene	ug/L	--		--		<0.3	<0.3	<0.3	<0.3	<2.0	**1.1**	**0.5**	**0.6**	<2.0	<0.3	**0.5**	**0.3**	<0.3	<0.3	<2.0	<0.3	<2.0	<0.3
Xylene (total)	ug/L	10000	HRL	10000	MCL	<0.5	<0.5	<0.5	<0.5	<3.0	**4.1**	**1.9**	**1.7**	<3.0	<0.5	**1.2**	**0.7**	<0.5	<0.5	<3.0	<0.5	<3.0	<0.5

Notes:

Bold face - detect

0.5 - framed cell - detected concentration exceeds MN drinking water criteria

18 - shaded cell - detected concentration exceeds Federal drinking water criteria

135 - increasing trend in concentrations

37 - decreasing trend in concentrations

??? - Results inconsistent with other results (outlier)

J - The analyte positively identified, below the report level, estimated
QR - Result estimated
RC - Report level was changed due to sample dilution
QF - Result estimated (spike recoveries did not meet QC criteria)
* - due to new research, the MDH no longer recommends the HRL value
HBV - Health Based Values derived by Minnesota Department of Health
HRL - Health Risk Level derived and promulgated in rule by Minnesota Department of Health
MCL - Maximum Contaminant Level (USEPA)

Table 2
Groundwater Analytical Results - Platteville Formation Wells
St. Louis Park / Edina / Hopkins Groundwater VOC Contamination
STS Project 200804044

				Well Name:	W131	W131	W131	W131	W132	W143	W143	W143	W143	W421	W421	W421	W421	W421	W424	W426	W426D	W426	W426	W426
				CWI Name:										W421 - U.S.G.S. WELL W-121										
				MN Unique Well No.:	00165586	00165586	00165586	00165586	00165587	00216051	00216051	00216051	00216051	00434044	00434044	00434044	00434044	00434044	00439809	00439812	00439812	00439812	00439812	00439812
				Aquifer:	Platteville	Platteville	Platteville	Platteville	Platteville	Platteville	Platteville	Platteville	Platteville	Platteville	Platteville	Platteville	Platteville	Platteville	Platteville	Platteville	Platteville	Platteville	Platteville	Platteville
				STS Sample ID:					W132					SLP 421					W424					
				MDH Sample No:		200610301	20070969		200514033		200610305	200710971		200432996		200610296	200710964		200514028			200611312	200710974	
				Sample Date:	5/3/2005	5/3/2006	5/8/2007	5/7/2008	6/2/2005	5/3/2005	5/3/2006	5/8/2007	5/13/2008	12/9/2004	5/3/2005	5/3/2006	5/8/2007	4/29/2008	6/2/2005	5/2/2005	5/2/2005	5/8/2006	5/9/2007	5/12/2008
				Notes:	ENSR Split Sample	ENSR Split Sample	ENSR Split Sample	Collected by Pace for EPA	Discrete Sample	ENSR Split Sample	ENSR Split Sample	ENSR Split Sample	Collected by Pace for EPA	Spigot Water Sample	ENSR Split Sample	ENSR Split Sample	ENSR Split Sample	Collected by Pace for EPA	Discrete Sample	ENSR Split Sample	ENSR Split Sample	ENSR Split Sample	ENSR Split Sample	Collected by Pace for EPA
Detected Contaminants		MN Drinking Water Standard		Federal Drinking Water Standards				Pace Sample No.: W131-050708					Pace Sample No.: W143-051308					Pace Sample No.: W421-042908						Pace Sample No.: W426-051208
Benzene	ug/L	5	HRL	5 MCL	<0.2	<0.2	<0.2	<1.0	1.4	1.1	12	0.6	<1.0	28.0	32.0	25.0	29.0	25.8	<0.2	0.8	0.8	<1.0	0.7	<1.0
n-Butylbenzene	ug/L	--		--	<0.5	<0.5	<0.5	<1.0	<0.5	<0.5	<0.5	<0.5	<1.0	0.5	<0.5	<0.5	0.48 J	<10	<0.5	<0.5	<0.5	<1.0	<0.5	<1.0
Chlorodibromoethane	ug/L	--		--	<0.5	<0.5	<0.5	<1.0	<0.5	<0.5	<0.5	<0.5	<1.0	<0.5	<0.5	<0.5	<0.5	<10	<0.5	<0.5	<0.5	<1.0	<0.5	<1.0
Chloroethane	ug/L	--		--	<0.5	<0.5	<0.5	<1.0	<0.5	<0.5	<0.5	<0.5	<1.0	<0.5	<0.5	<0.5	<0.5	<10	<0.5	<0.5	<0.5	<1.0	<0.5	<1.0
Chloroform	ug/L	60	HRL	--	0.1	<0.1	<0.1	<5.0	<0.1	<0.1	<0.1	<0.1	<5.0	<0.1	<0.1	<0.1	<0.1	<50	<0.1	0.1	0.1	<1.0	<0.1	<5.0
1,1-Dichloroethane	ug/L	70	HRL	--	<0.2	<0.2	<0.2	<1.0	0.3	<0.2	1.7	<0.2	<1.0	0.3	3.9	0.3	<0.2	<10	<0.2	<0.2	<0.2	<1.0	<0.2	<1.0
1,2-Dichloroethane	ug/L	4	HRL	5 MCL	<0.2	<0.2	<0.2	<1.0	<0.2	<0.2	<0.2	<0.2	<1.0	<0.2	<0.2	<0.2	<0.2	<10	<0.2	<0.2	<0.2	<1.0	<0.2	<1.0
1,1-Dichloroethene	ug/L	6	HRL	7 MCL	<0.2	<0.2	<0.2	<1.0	<0.5	<0.2	1.7	<0.2	<1.0	2.3	<0.2	6.6	9.3	<10	<0.5	<0.2	<0.2	<1.0	<0.2	<1.0
cis-1,2-Dichloroethene	ug/L	70	HRL	70 MCL	0.3	<0.2	0.18 J	<1.0	<0.2	14	400 RC	23	26.8	410	810.0	1500 RC	2500 RC	1720.0	<0.2	<0.2	0.2	<1.0	0.4	<1.0
trans-1,2-Dichloroethene	ug/L	100	HRL	100 MCL	<0.1	<0.1	<0.1	<1.0	<0.1	4.7	150 RC	9.3	12.8	260.0	330.0	290 RC	210 RC	151 J	<0.1	0.1	0.1	<1.0	0.2	<1.0
Dichlorodifluoromethane	ug/L	1000	HRL	--	<0.1	<0.1	<0.1	<1.0	<1.0	<0.1	<0.1	<0.1	<1.0	<1.0	<0.1	<0.1	<0.1	<10	<1.0	<0.1	<0.1	<1.0	<0.1	<1.0
Dichlorofluoromethane	ug/L	--		--	<0.5	<0.5	<0.5	<1.0	<0.5	<0.5	<0.5	<0.5	<1.0	<0.5	<0.5	<0.5	<0.5	<10	<0.5	<0.5	<0.5	<1.0	<0.5	<1.0
Ethylbenzene	ug/L	700	HRL	700 MCL	<0.5	<0.5	<0.5	<1.0	<0.5	<0.5	3.2	<0.5	0.682 J	31	31	<0.5	33	31.2	<0.5	13	12	6.2	12	3.88
Isopropylbenzene	ug/L	300	HRL*	--	<0.5	<0.5	<0.5	<1.0	<0.5	<0.5	<0.5	<0.5	<1.0	4.8	5	4.5	5.6	<10	<0.5	4.3	4.3	1.9	3.9	1.11
p-Isopropyltoluene	ug/L	--		--	<0.5	<0.5	<0.5	<1.0	<0.5	<0.5	<0.5	<0.5	<1.0	<0.5	<0.5	0.3 J	0.35 J	<10	<0.5	1.2	1.1	<1.0	0.7	<1.0
Methylene chloride (Dichloromethane)	ug/L	5	HRL	5 MCL	<0.5	<0.5	<0.5	<1.0	<0.5	<0.5	<0.5	<0.5	<1.0	<0.5	<0.5	<0.5	<0.5	<10	<0.5	<0.5	<0.5	<1.0	<0.5	<1.0
Naphthalene	ug/L	300	HRL	--	6.2	<1.0	<1.0	<5.0	<1.0	6.3	3.9	<1.0	0.895 J	360.0	230	450 RC	37 QF	133 J	<1.0	9.6	8.9	4.1	14 QR	1.44 J
n-Propylbenzene	ug/L	--		--	<0.5	<0.5	<0.5	<1.0	<0.5	<0.5	<0.5	<0.5	<1.0	2.1	1.6	1.5	1.7	<10	<0.5	1.6	1.6	0.8 J	1.4	<1.0
Styrene	ug/L	--		100 MCL	<0.5	<0.5	<0.5	<1.0	<0.5	<0.5	<0.5	<0.5	<1.0	<0.5	<0.5	<0.5	<0.5	<10	<0.5	<0.5	<0.5	<1.0	<0.5	<1.0
Tetrachloroethene	ug/L	5	HRL	5 MCL	12	0.3	1.9	<1.0	<0.2	22.0	37.0	10.0	0.662 J	42.0	27.0	1.4	0.2	<10	<0.2	<0.2	<0.2	<1.0	0.4	<1.0
Tetrahydrofuran	ug/L	--		--	<10	<10	<10	<5.0	<10	<10	<10	<10	<5.0	<10	<10	<10	<10	<50	<10	<10	<10	<1.0	<10	<5.0
Toluene	ug/L	1000	HRL	1000 MCL	<0.5	<0.5	<0.5	<1.0	<0.5	<0.5	0.8	0.14 J	<1.0	2.5	2	2.2	2.3	<10	32	0.6	0.7	0.5 J	0.6	<1.0
1,1,1-Trichloroethane	ug/L	200	HRL	200 MCL	<0.2	<0.2	<0.2	<1.0	<0.2	<0.2	<0.2	<0.2	<1.0	<0.2	<0.2	<0.2	<0.2	<10	<0.2	<0.2	<0.2	<1.0	<0.2	<1.0
Trichloroethene (TCE)	ug/L	5	HRL	5 MCL	2.7	0.2	0.7	<1.0	<0.1	93.0	2200 RC	108.0	92.5	760.0	259.0	3.9	1.8	<10	<0.1	<0.1	<0.1	<1.0	0.3	<1.0
1,2,4-Trimethylbenzene	ug/L	--		--	<0.5	<0.5	<0.5	<1.0	<0.5	<0.5	<0.5	<0.5	<1.0	5.9	7.8	3.9	6.0	<10	<0.5	13	12	4.4	5.7	2.33
1,3,5-Trimethylbenzene	ug/L	--		--	<0.5	<0.5	<0.5	<1.0	<0.5	<0.5	<0.5	<0.5	<1.0	2.4	3.2	1.8	3.5	<10	<0.5	8.5	8.3	2.9	3.9	1.83
Vinyl Chloride	ug/L	0.2	HRL	2 MCL	<0.2	<0.2	<0.2	<1.0	0.7	2.4	42.0	1.7	2.91	100	150.0	160 RC	340 RC	322.0	<0.2	<0.2	<0.2	<1.0	<0.2	<1.0
o-Xylene	ug/L	--		--	<0.2	<0.2	<0.2	<1.0	<0.2	<0.2	0.7	<0.2	<1.0	16	20	17	22	16.4	<0.2	6.5	6.4	2.9	4.2	1.92
p&m-Xylene	ug/L	--		--	<0.3	<0.3	<0.3	<2.0	<0.3	<0.3	0.6	<0.3	<2.0	14	13	13	18	<20	<0.3	3.5	3.4	2	2.5	<2.0
Xylene (total)	ug/L	10000	HRL	10000 MCL	<0.5	<0.5	<0.5	<3.0	<0.5	<0.5	1.3	<0.5	<3.0	30	33	30	40	36.4	<0.5	10.0	9.8	4.9	6.7	3.92

Notes:

Bold face - detect

0.5 - framed cell - detected concentration exceeds MN drinking water criteria

18 - shaded cell - detected concentration exceeds Federal drinking water criteria

135 - increasing trend in concentrations

37 - decreasing trend in concentrations

??? - Results inconsistent with other results (outlier)

J - The analyte positively identified, below the report level, estimated
QR - Result estimated
RC - Report level was changed due to sample dilution
QF - Result estimated (spike recoveries did not meet QC criteria)
* - due to new research, the MDH no longer recommends the HRL value
HBV - Health Based Values derived by Minnesota Department of Health
HRL - Health Risk Level derived and promulgated in rule by Minnesota Department of Health
MCL - Maximum Contaminant Level (USEPA)

Table 2
Groundwater Analytical Results - Platteville Formation Wells
St. Louis Park / Edina / Hopkins Groundwater VOC Contamination
STS Project 200804044

																	???				
				Well Name:	W428	W428	W428	W428	W429	W429	W429	W431	W431	W431	W431	W433	W433FB	W433FB	W433	W433
				CWI Name:																	
				MN Unique Well No.:	00439810	00439810	00439810	00439810	00439724	00439724	00439724	00462935	00462935	00462935	00462935	00462933	00462933	00462933	00462933	00462933
				Aquifer:	Platteville	Platteville	Platteville	Platteville	Platteville	Platteville	Platteville	Platteville	Platteville	Platteville	Platteville	Platteville	Platteville	Platteville	Platteville	Platteville
				STS Sample ID:					W429	W429	W429									
				MDH Sample No:		200610302	200710991		200514031	200514031	200514031		200610303	200710968				200610297	200710965	
				Sample Date:	5/3/2005	5/3/2006	5/8/2007	5/7/2008	6/2/2005	6/2/2005	6/2/2005	5/3/2005	5/3/2006	5/8/2007	5/7/2008	5/2/2005	5/2/2005	5/3/2006	5/8/2007	5/13/2008
				Notes:	ENSR Split Sample	ENSR Split Sample	ENSR Split Sample	Collected by Pace for EPA	Discrete Sample	Discrete Sample, MS Sample	Discrete Sample, MSD Sample	ENSR Split Sample	ENSR Split Sample	ENSR Split Sample	Collected by Pace for EPA	ENSR Split Sample	ENSR Split Sample	ENSR Split Sample	ENSR Split Sample	Collected by Pace for EPA
Detected Contaminants		MN Drinking Water Standard		Federal Drinking Water Standards				Pace Sample No.: W428-050708							Pace Sample No.: W431-050708					Pace Sample No.: W433-051308
Benzene	ug/L	5	HRL	5 MCL	**0.2**	**0.4**	**0.16 J**	<1.0	<0.2	<0.2	<0.2	**4.6**	**3.6**	**4.5**	**4.36**	**31.0**	<0.2	<0.2	**35.0**	**24.7**
n-Butylbenzene	ug/L	--		--	<0.5	<0.5	<0.5	<1.0	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	<0.5	<0.5	<0.5	<0.5	<1.0
Chlorodibromoethane	ug/L	--		--	<0.5	<0.5	<0.5	<1.0	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	<0.5	<0.5	<0.5	<0.5	<1.0
Chloroethane	ug/L	--		--	<0.5	<0.5	<0.5	<1.0	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	<0.5	<0.5	<0.5	<0.5	<1.0
Chloroform	ug/L	60	HRL	--	<0.1	<0.1	<0.1	<5.0	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<5.0	<0.1	**0.1**	<0.1	<0.1	<5.0
1,1-Dichloroethane	ug/L	70	HRL	--	<0.2	<0.2	<0.2	<1.0	<0.2	<0.2	<0.2	<0.2	**0.4**	**0.5**	<1.0	<0.2	<0.2	**0.4**	<0.2	<1.0
1,2-Dichloroethane	ug/L	4	HRL	5 MCL	<0.2	<0.2	<0.2	<1.0	<0.2	<0.2	<0.2	<0.2	**0.4**	**0.5**	<1.0	<0.2	<0.2	<0.2	<0.2	<1.0
1,1-Dichloroethene	ug/L	6	HRL	7 MCL	<0.2	<0.5	<0.2	<1.0	<0.5	<0.5	<0.5	<0.2	<0.2	**0.8**	**1.12**	<0.2	<0.2	**5.5**	<0.2	<1.0
cis-1,2-Dichloroethene	ug/L	70	HRL	70 MCL	<0.2	<0.2	<0.2	<1.0	<0.2	<0.2	<0.2	**89.0**	**22**	**180 RC**	**288.0**	**1**	<0.2	**620 RC**	**150 RC**	**17.6**
trans-1,2-Dichloroethene	ug/L	100	HRL	100 MCL	<0.1	<0.1	<0.1	<1.0	<0.1	<0.1	<0.1	**41**	**14**	**51**	**50.9**	**3**	<0.1	**46**	**27**	**4.40**
Dichlorodifluoromethane	ug/L	1000	HRL	--	<0.1	<1.0	<0.1	<1.0	<1.0	<1.0	<1.0	<0.1	<0.1	<0.1	<1.0	<0.1	<0.1	<0.1	<0.1	<1.0
Dichlorofluoromethane	ug/L	--		--	<0.5	<0.5	<0.5	<1.0	<0.5	<0.5	<0.5	**5.7**	**5.1**	**4.5**	**3.19**	<0.5	<0.5	<0.5	<0.5	<1.0
Ethylbenzene	ug/L	700	HRL	700 MCL	<0.5	<0.5	<0.5	<1.0	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	<0.5	<0.5	**0.3 J**	<0.5	<1.0
Isopropylbenzene	ug/L	300	HRL*	--	<0.5	<0.5	<0.5	<1.0	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	<0.5	<0.5	<0.5	<0.5	<1.0
p-Isopropyltoluene	ug/L	--		--	<0.5	<0.5	<0.5	<1.0	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	<0.5	<0.5	<0.5	<0.5	<1.0
Methylene chloride (Dichloromethane)	ug/L	5	HRL	5 MCL	<0.5	<0.5	<0.5	<1.0	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	<0.5	<0.5	<0.5	<0.5	<1.0
Naphthalene	ug/L	300	HRL	--	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	**0.763 J QF**	<5.0	**3.4**	**1.3**	<1.0	**2.0 QF**	<5.0
n-Propylbenzene	ug/L	--		--	<0.5	<0.5	<0.5	<1.0	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	<0.5	<0.5	<0.5	<0.5	<1.0
Styrene	ug/L	--		100 MCL	<0.5	<0.5	<0.5	<1.0	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	<0.5	<0.5	<0.5	<0.5	<1.0
Tetrachloroethene	ug/L	5	HRL	5 MCL	<0.2	<0.2	<0.2	<1.0	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<1.0	<0.2	<0.2	**0.9**	**0.14 J**	<1.0
Tetrahydrofuran	ug/L	--		--	<10	<10	<10	<5.0	<10	<10	<10	<10	<10	<10	<5.0	<10	<10	<10	<10	<5.0
Toluene	ug/L	1000	HRL	1000 MCL	<0.5	<0.5	**0.15 J**	<1.0	<0.5	<0.5	<0.5	<0.5	<0.5	**0.16 J**	<1.0	<0.5	<0.5	**0.6**	**0.7**	<1.0
1,1,1-Trichloroethane	ug/L	200	HRL	200 MCL	<0.2	<0.2	<0.2	<1.0	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<1.0	<0.2	<0.2	<0.2	<0.2	<1.0
Trichloroethene (TCE)	ug/L	5	HRL	5 MCL	<0.1	**0.06 J**	<0.1	<1.0	<0.1	<0.1	<0.1	**7.4**	**1.0**	**3.0**	**2.74**	**0.4**	<0.1	**25**	<0.1	<1.0
1,2,4-Trimethylbenzene	ug/L	--		--	<0.5	<0.5	<0.5	<1.0	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	<0.5	<0.5	<0.5	<0.5	<1.0
1,3,5-Trimethylbenzene	ug/L	--		--	<0.5	<0.5	<0.5	<1.0	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	<0.5	<0.5	<0.5	<0.5	<1.0
Vinyl Chloride	ug/L	0.2	HRL	2 MCL	<0.2	<0.2	<0.2	<1.0	<0.2	<0.2	<0.2	**9.1**	**9.7**	**12.0**	**6.96**	**0.8**	<0.2	**120.0**	**300 RC**	**4.33**
o-Xylene	ug/L	--		--	<0.2	<0.2	<0.2	<1.0	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<1.0	<0.2	<0.2	**0.2 J**	<0.2	<1.0
p&m-Xylene	ug/L	--		--	<0.3	<0.3	<0.3	<2.0	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<2.0	<0.3	<0.3	**0.5**	<0.3	<2.0
Xylene (total)	ug/L	10000	HRL	10000 MCL	<0.5	<0.5	<0.5	<3.0	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<3.0	<0.5	<0.5	**0.7**	<0.5	<3.0

Notes:

Bold face - detect

0.5 - framed cell - detected concentration exceeds MN drinking water criteria

18 - shaded cell - detected concentration exceeds Federal drinking water criteria

135 - increasing trend in concentrations

37 - decreasing trend in concentrations

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HBV - Health Based Values derived by Minnesota Department of Health
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Table 2
Groundwater Analytical Results - Platteville Formation Wells
St. Louis Park / Edina / Hopkins Groundwater VOC Contamination
STS Project 200804044

				Well Name:	W434	W434	W434	W434	W434	W437	W437	W437	W437	W438	W438	W438	W438	D. BATTLE	D. SJOLANDER	R. & T. RATHMANNER
				CWI Name:	W434- ST. LOUIS PARK B-D													--	--	LLOYD NELSON
				MN Unique Well No.:	00463012	00463012	00463012	00463012	00463012	00498917	00498917	00498917	00498917	00498919	00498919	00498919	00498919	00223763	00218181	00206459
				Aquifer:	Platteville	Platteville	Platteville	Platteville	Platteville	Platteville	Platteville	Platteville	Platteville	Platteville	Platteville	Platteville	Platteville	Platteville	Platteville	Platt/St. Peter
				STS Sample ID:	SLP 434													6008 Kaymar Dr.	4540 Vandervork Ave	4366 Thielen Ave
				MDH Sample No:	200432997			200710963			200610316	200710984				200710970		200531631	200531632	200532481
				Sample Date:	12/9/2004	5/3/2005	5/3/2006	5/8/2007	5/7/2008	5/2/2005	5/2/2006	5/7/2007	5/12/2008	5/3/2005	5/3/2006	5/8/2007	5/13/2008	11/19/2005	11/21/2005	11/23/2005
				Notes:	Spigot Water Sample	ENSR Split Sample	ENSR Split Sample	ENSR Split Sample	Collected by Pace for EPA	ENSR Split Sample	ENSR Split Sample	ENSR Split Sample	Collected by Pace for EPA	ENSR Split Sample	ENSR Split Sample	ENSR Split Sample	Collected by Pace for EPA	Spigot Water Sample	Spigot Water Sample	Spigot Water Sample
Detected Contaminants		MN Drinking Water Standard		Federal Drinking Water Standards					Pace Sample No.: W434-050708				Pace Sample No.: W437-051208				Pace Sample No.: W438-051308			
Benzene	ug/L	5	HRL	5 MCL	23.0	24.0	16.0	16.0	13.2	2.4	1.8	1.5	<25.0	15.0	14.0	15.0	10.6	<0.2	<0.2	<0.2
n-Butylbenzene	ug/L	--		--	<0.5	<0.5	<0.5	<0.5	<5.00	<0.5	<0.5	<0.5	<25.0	<0.5	<0.5	<0.5	<10	<0.5	<0.5	<0.5
Chlorodibromoethane	ug/L	--		--	<0.5	<0.5	<0.5	<0.5	<5.00	<0.5	<0.5	<0.5	<25.0	<0.5	<0.5	<0.5	<10	<0.5	<0.5	<0.5
Chloroethane	ug/L	--		--	<0.5	<0.5	<0.5	<0.5	<5.00	<0.5	<0.5	<0.5	<25.0	<0.5	<0.5	<0.5	<10	<0.5	<0.5	<0.5
Chloroform	ug/L	60	HRL	--	<0.1	<0.1	<0.1	<0.1	<25.00	0.1	<0.1	<0.1	<125	<0.1	<0.1	<0.1	<50	<0.1	<0.1	<0.1
1,1-Dichloroethane	ug/L	70	HRL	--	0.4	<0.2	<0.2	<0.2	<5.00	<0.2	<0.2	<0.2	<25.0	0.2	0.2 J	0.2	<10	<0.2	<0.2	<0.2
1,2-Dichloroethane	ug/L	4	HRL	5 MCL	<0.2	0.2	<0.2	<0.2	<5.00	<0.2	<0.2	<0.2	<25.0	<0.2	<0.2	<0.2	<10	<0.2	<0.2	<0.2
1,1-Dichloroethene	ug/L	6	HRL	7 MCL	6.5	11.0	9.3	6.0	<5.00	<0.2	2.8	1.2	<25.0	3.7	3.7	5.5	<10	<0.2	<0.2	<0.2
cis-1,2-Dichloroethene	ug/L	70	HRL	70 MCL	290.0	1100.0	1700 RC	1200 RC	696.0	86.0	980 RC	460 RC	26.8	190.0	300 RC	366.0	862.0	<0.2	<0.2	<0.2
trans-1,2-Dichloroethene	ug/L	100	HRL	100 MCL	43	63	56	54	33.4	2.5	3.4	3.9	<25.0	18	24	41	26.5	<0.1	<0.1	<0.1
Dichlorodifluoromethane	ug/L	1000	HRL	--	<1.0	<0.1	<0.1	<0.1	<5.00	<0.1	<0.1	<0.1	<25.0	<0.1	<0.1	<0.1	<10	<0.1	<0.1	<0.1
Dichlorofluoromethane	ug/L	--		--	<0.5	<0.5	<0.5	<0.5	<5.00	<0.5	<0.5	<0.5	<25.0	<0.5	<0.5	<0.5	<10	<0.5	<0.5	<0.5
Ethylbenzene	ug/L	700	HRL	700 MCL	2.5	<0.5	0.6	0.30 J	<5.00	13	9.7	6.8	<25.0	<0.5	<0.5	<0.5	<10	<0.5	<0.5	<0.5
Isopropylbenzene	ug/L	300	HRL*	--	1.3	1.2	0.4 J	0.44 J	<5.00	8.3	4.7	6.0	<25.0	<0.5	<0.5	<0.5	<10	<0.5	<0.5	<0.5
p-Isopropyltoluene	ug/L	--		--	<0.5	<0.5	<0.5	<0.5	<5.00	1.4	0.7	1.0	<25.0	<0.5	<0.5	<0.5	<10	<0.5	<0.5	<0.5
Methylene chloride (Dichloromethane)	ug/L	5	HRL	5 MCL	<0.5	<0.5	<0.5	<0.5	<5.00	<0.5	<0.5	<0.5	<25.0	<0.5	<0.5	<0.5	<10	<0.5	<0.5	<0.5
Naphthalene	ug/L	300	HRL	--	8.9	<1.0	1.7	1.1 QF	<25.00	4100.0	3600.0	59	1430.0	1.6	<1.0	<1.0	9.30 J	<1.0	<1.0	<1.0
n-Propylbenzene	ug/L	--		--	<0.5	<0.5	<0.5	<0.5	<5.00	2.5	1.5	2.1	<25.0	<0.5	<0.5	<0.5	<10	<0.5	<0.5	<0.5
Styrene	ug/L	--		100 MCL	<0.5	<0.5	<0.5	<0.5	<5.00	<0.5	<0.5	<0.5	<25.0	<0.5	<0.5	<0.5	<10	<0.5	<0.5	<0.5
Tetrachloroethene	ug/L	5	HRL	5 MCL	1200.0	760.0	39.0	7.5	4.47 J	13000.0	3900.0	6500 RC	5290.0	3.6	1.3	0.2	<10	<0.2	<0.2	<0.2
Tetrahydrofuran	ug/L	--		--	<10	<10	<10	<10	<25.00	<10	<10	<10	<125	<10	<10	<10	<50	<10	<10	<10
Toluene	ug/L	1000	HRL	1000 MCL	<0.5	0.7	<0.5	0.22 J	<5.00	0.9	0.7	0.6	<25.0	<0.5	<0.5	0.14 J	<10	<0.5	<0.5	<0.5
1,1,1-Trichloroethane	ug/L	200	HRL	200 MCL	<0.2	<0.2	<0.2	<0.2	<5.00	<0.2	<0.2	<0.2	<25.0	<0.2	<0.2	<0.2	<10	<0.2	<0.2	<0.2
Trichloroethene (TCE)	ug/L	5	HRL	5 MCL	900.0	680.0	56.0	13.0	8.67	2600.0	4200.0	3600 RC	2760.0	200.0	150 RC	71.0	21.6	<0.1	<0.1	<0.1
1,2,4-Trimethylbenzene	ug/L	--		--	<0.5	<0.5	<0.5	<0.5	<5.00	<0.5	24	32	<25.0	<0.5	<0.5	<0.5	<10	<0.5	<0.5	<0.5
1,3,5-Trimethylbenzene	ug/L	--		--	<0.5	<0.5	<0.5	<0.5	<5.00	19	6.9	14	<25.0	<0.5	<0.5	<0.5	<10	<0.5	<0.5	<0.5
Vinyl Chloride	ug/L	0.2	HRL	2 MCL	86.0	110.0	91 RC	170 RC	85.8	8.6	40.0	21.0	<25.0	36.0	31.0	36.0	23.3	<0.2	<0.2	<0.2
o-Xylene	ug/L	--		--	<0.2	<0.2	<0.2	<0.2	<5.00	7.4	4.4	3.2	<25.0	<0.2	<0.2	<0.2	<10	<0.2	<0.2	<0.2
p&m-Xylene	ug/L	--		--	0.6	0.8	<0.3	0.4	<10.0	14	8.1	6.7	<25.0	<0.3	<0.3	<0.3	<20	<0.3	<0.3	<0.3
Xylene (total)	ug/L	10000	HRL	10000 MCL	0.8	1.0	<0.5	0.6	<15.0	24.4	12.5	9.9	<50.0	<0.5	<0.5	<0.5	<30	<0.5	<0.5	<0.5

Notes:

Bold face - detect

0.5 - framed cell - detected concentration exceeds MN drinking water criteria

18 - shaded cell - detected concentration exceeds Federal drinking water criteria

135 - increasing trend in concentrations

37 - decreasing trend in concentrations

??? - Results inconsistent with other results (outlier)

J - The analyte positively identified, below the report level, estimated
QR - Result estimated
RC - Report level was changed due to sample dilution
QF - Result estimated (spike recoveries did not meet QC criteria)
* - due to new research, the MDH no longer recommends the HRL value
HBV - Health Based Values derived by Minnesota Department of Health
HRL - Health Risk Level derived and promulgated in rule by Minnesota Department of Health
MCL - Maximum Contaminant Level (USEPA)

Table 3
Groundwater Analytical Results - St. Peter Sandstone Wells
St. Louis Park / Edina / Hopkins Groundwater VOC Contamination
STS Project 200804044

				Well Name:	SLP3	SLP3	SLP3	SLP3	SLP3	PERRY A & CINDY L WITKIN	W14	W21	W24	W24	W24	W33	W33R	W33R	W122	W122	W122	W122	W133	W133	W133	W133
				CWI Name:	ST. LOUIS PARK 3	ST. LOUIS PARK 3	ST. LOUIS PARK 3	ST. LOUIS PARK 3	ST. LOUIS PARK 3	J. J. LIEBENBERG						ROBINSON RUBBER CO.	ROBINSON RUBBER CO.	ROBINSON RUBBER CO.								
				MN Unique Well No.:	00206440	00206440	00206440	00206440	00206440	00203620	00114472	00216049	00160018	00160018	00160018	00206449	00206449	00206449	00165578	00165578	00165578	00165578	00165588	00165588	00165588	00165588
				Aquifer:	Platt.-St. Peter	St. Peter	St. Peter	St. Peter	St. Peter	St. Peter-PDCJ	St. Peter	St. Peter	St. Peter	St. Peter	St. Peter	St. Peter	St. Peter	St. Peter	St. Peter	St. Peter	St. Peter	St. Peter	St. Peter	St. Peter	St. Peter	St. Peter
				STS Sample ID:						EDINA PRI #1	W14	W21														
				MDH Sample No:	200423868	200423868	200610299	200710992		200429907	200514032	200514046	200610292	200712749	200811238	200610293	200725301	200811241			200710996	200811246			200710981	200811245
				Sample Date:	8/16/2004	5/9/2005	5/4/2006	5/10/2007	Spring 2008	10/22/04	6/2/2005	6/3/2005	5/1/2006	5/22/2007	5/5/2008	5/1/2006	8/21/2007	5/5/2008	5/9/2005	5/4/2006	5/10/2007	5/6/2008	5/9/2005	5/4/2006	5/10/2007	5/6/2008
				Notes:	City of St. Louis Park Data	ENSR Split Sample	ENSR Split Sample	ENSR Split Sample	Collected by Pace for EPA	Spigot Water Sample	Discrete Sample	Discrete Sample	ENSR Split Sample	ENSR Split Sample	ENSR Split Sample	ENSR Split Sample	ENSR Split Sample	ENSR Split Sample	ENSR Split Sample	ENSR Split Sample	ENSR Split Sample	ENSR Split Sample	ENSR Split Sample	ENSR Split Sample	ENSR Split Sample	ENSR Split Sample	ENSR Split Sample
Detected Contaminants		MN Drinking Water Standard		Federal Drinking Water Standards					Pace Sample No.: 0289-50060 SLP03																	
Benzene	ug/L	5	HRL	5 MCL	<0.2	<0.2	<0.2	<0.2	<5.00	<0.2	<0.2	<0.2	**0.5**	**0.4**	**0.4**	<1.0	<0.2	<0.2	<0.2	**0.2 J**	**0.2**	<0.2	**0.4**	**0.4**	**0.3**	<0.2
n-Butylbenzene	ug/L	--		--	<0.5	<0.5	<0.5	<0.5	<5.00	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	<0.2	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Chlorodibromoethane	ug/L	--		--	<0.5	<0.5	<0.5	<0.5	<5.00	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Chloroethane	ug/L	--		--	<0.5	<0.5	<0.5	<0.5	<5.00	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Chloroform	ug/L	60	HRL	--	<0.1	<0.1	<0.1	<0.1	<5.00	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<1.0	<0.5	<0.5	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Chloromethane	ug/L	--		--	<1.0	<1.0	<1.0	<1.0	<5.00	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.1	<0.1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	**0.555 J**	<1.0
1,1-Dichloroethane	ug/L	70	HRL	--	<0.2	<0.2	<0.2	<0.2	<5.00	<0.2	<0.2	<0.2	**0.4**	**0.6**	**0.6**	<1.0	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
1,2-Dichloroethane	ug/L	4	HRL	5 MCL	<0.2	<0.2	<0.2	<0.2	<5.00	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<1.0	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	**0.3**	**0.4**	<0.2
1,1-Dichloroethene	ug/L	6	HRL	7 MCL	<0.5	<0.2	<0.2	<0.2	<5.00	<0.5	<0.5	<0.5	<0.2	<0.2	<0.2	<1.0	<0.5	<0.5	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
cis-1,2-Dichloroethene	ug/L	70	HRL	70 MCL	<0.2	<0.2	<0.2	**0.2**	**6.56 J**	<0.2	<0.2	<0.2	**8.2**	**7**	**7.5**	<1.0	<0.2	**1.1**	<0.2	<0.2	<0.2	<0.2	**5**	**5.4**	**3.8**	**0.3**
trans-1,2-Dichloroethene	ug/L	100	HRL	100 MCL	<0.1	<0.1	<0.1	<0.1	**1.64 J**	<0.1	<0.1	<0.1	**0.7**	**0.5**	**0.5**	<1.0	<0.1	**0.09 J**	<0.1	<0.1	<0.1	<0.1	**1.5**	**1.8**	**1.1**	<0.1
Dichlorodifluoromethane	ug/L	1000	HRL	--	<0.5	<1.0	<1.0	<1.0	<5.00	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.1	<1.0	<1.0	<1.0
Dichlorofluoromethane	ug/L	--		--	<0.5	<0.5	<0.5	<0.5	<5.00	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Ethylbenzene	ug/L	700	HRL	700 MCL	<0.2	<0.5	<0.5	<0.5	<5.00	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Isopropylbenzene	ug/L	300	HRL*	--	<0.5	<0.5	<0.5	<0.5	<5.00	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
p-Isopropyltoluene	ug/L	--		--	<0.5	<0.5	<0.5	<0.5	<5.00	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Methylene chloride (Dichloromethane)	ug/L	5	HRL	5 MCL	<0.5	<0.5	<0.5	<0.5	<5.00	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Naphthalene	ug/L	300	HRL	--	<0.5	<1.0	<1.0	<1.0	<5.00	<1.0	<1.0	<1.0	<1.0	<1.0	<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	ug/L	--		--	<0.5	<0.5	<0.5	<0.5	<5.00	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Styrene	ug/L	--		100 MCL	<0.5	<0.5	<0.5	<0.5	<5.00	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Tetrachloroethene	ug/L	5	HRL	5 MCL	<0.2	<0.2	<0.2	**0.3**	**1.35 J**	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<1.0	<0.2	**3.3**	<0.2	<0.2	<0.2	<0.2	**1.7**	**11**	**0.6**	<0.2
Tetrahydrofuran	ug/L	--		--	<10	<10	<10	<10	<5.00	<10	<10	<10	<10	<10	<10	<1.0	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Toluene	ug/L	1000	HRL	1000 MCL	<0.2	<0.5	<0.5	<0.5	<5.00	<0.5	<0.5	**0.6**	<0.5	<0.5	<0.5	<1.0	<0.5	<0.5	<0.5	<0.5	**0.14 J**	<0.5	<0.5	<0.5	<0.5	<0.5
1,1,1-Trichloroethane	ug/L	200	HRL	200 MCL	<0.2	<0.2	<0.2	<0.2	<5.00	<0.2	<0.2	<0.2	<0.2	0.12 J	<0.2	<1.0	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Trichloroethene (TCE)	ug/L	5	HRL	5 MCL	<0.1	<0.1	**0.07 J**	**0.1**	**4.57 J**	<0.1	<0.1	<0.1	**0.2**	**0.3**	**0.3**	<1.0	<0.1	**1.3**	<0.1	**0.05 J**	<0.1	<0.1	**0.8**	**18**	**0.6**	<0.1
1,2,4-Trimethylbenzene	ug/L	--		--	<0.5	<0.5	<0.5	<0.5	<5.00	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,3,5-Trimethylbenzene	ug/L	--		--	<0.5	<0.5	<0.5	<0.5	<5.00	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Vinyl Chloride	ug/L	0.2	HRL	2 MCL	<0.5	<0.2	<0.2	<0.2	<5.00	<0.2	<0.2	<0.2	**0.9**	**0.8**	**1.4**	<1.0	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	**2.8**	**2.1**	**3.3**	**0.15 J**
o-Xylene	ug/L	--		--	<0.2	<0.2	<0.2	<0.2	<5.00	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<1.0	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
p&m-Xylene	ug/L	--		--	<0.2	<0.3	<0.3	<0.3	<10.00	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<1.0	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Xylene (total)	ug/L	10000	HRL	10000 MCL	<0.4	<0.5	<0.5	<0.5	<15.00	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2.0	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5

Notes:

Bold face - detect

0.5	- framed cell - detected concentration exceeds MN drinking water criteria
18	- shaded cell - detected concentration exceeds Federal drinking water criteria
135	- increasing trend in concentrations
37	- decreasing trend in concentrations

J - The analyte positively identified, below the report level, estimated
RC - Report level was changed due to sample dilution
* - due to new research, the MDH no longer recommends the HRL value
HBV - Health Based Values derived by Minnesota Department of Health
HRL - Health Risk Level derived and promulgated in rule by Minnesota Department of Health
MCL - Maximum Contaminant Level (USEPA)

Table 3
Groundwater Analytical Results - St. Peter Sandstone Wells
St. Louis Park / Edina / Hopkins Groundwater VOC Contamination
STS Project 200804044

				Well Name:	W409	W409	W409	W409	W410	W410	W410	W411	W411	W411	W411	W412	W412D	W412	W412	W412	R. & A. PERRIN	J. BLOOM	J. BLOOM	J. REICHERT	P. & R. LARSON
				CWI Name:					W-410 (USGS W-24)	W-410 (USGS W-24)	W-410 (USGS W-24)										WILLIAM JESUUP	JIM BLOOM	JIM BLOOM	ROY HAWKINSON	JOHN ANDERSON
				MN Unique Well No.:	00432036	00432036	00432036	00432036	00434042	00434042	00434042	00432035	00432035	00432035	00432035	00432034	00432034	00432034	00432034	00432034	00206590	00203130	00203130	00206488	00206548
				Aquifer:	St. Peter	St. Peter	St. Peter	St. Peter	St. Peter	St. Peter	St. Peter	St. Peter	St. Peter	St. Peter	St. Peter	St. Peter	St. Peter	St. Peter	St. Peter	St. Peter	St. Peter	St. Peter	St. Peter	St. Peter	St. Peter
				STS Sample ID:																	5608 Highland Rd	6825 Valley View Rd	6825 Valley View Rd	4800 Bywood St. W.	5524 Glengarry Pkwy
				MDH Sample No:		200610306	200710967		200424655	200610294	200712750		200610310	200710995	200811244			200610309	200710994	200811243	200532477	200532478	200532478	200532480	200531633
				Sample Date:	5/3/2005	5/3/2006	5/8/2007	5/13/2008	8/23/2004	5/1/2006	5/22/2007	5/9/2005	5/4/2006	5/10/2007	5/6/2008	5/9/2005	5/9/2005	5/4/2006	5/10/2007	5/5/2008	11/30/2005	11/30/2005	11/30/2005	11/29/2005	11/19/2005
				Notes:	ENSR Split Sample	ENSR Split Sample	ENSR Split Sample	Collected by Pace for EPA	City of St. Louis Park Data	ENSR Split Sample	ENSR Split Sample	ENSR Split Sample	ENSR Split Sample	ENSR Split Sample	ENSR Split Sample	ENSR Split Sample	ENSR Split Sample	ENSR Split Sample	ENSR Split Sample	ENSR Split Sample	Spigot Water Sample	Spigot Water Sample	Spigot Water Sample, duplicate	Spigot Water Sample	Spigot Water Sample
Detected Contaminants		MN Drinking Water Standard		Federal Drinking Water Standards				Pace Sample No.: W409-051308																	
Benzene	ug/L	5	HRL	5 MCL	**19.0**	**1.8**	**6.7**	**6**	0.9	1.6	2.8	0.2	0.3	0.4	0.2	1.1	1.1	1.0	0.16 J	0.1 J	<0.2	<0.2	<0.2	<0.2	<0.2
n-Butylbenzene	ug/L	--		--	<0.5	<10	<0.5	<1.00	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Chlorodibromoethane	ug/L	--		--	<0.5	<10	<0.5	<1.00	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Chloroethane	ug/L	--		--	<0.5	<10	<0.5	<1.00	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Chloroform	ug/L	60	HRL	--	<0.1	<10	<0.1	<5.00	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Chloromethane	ug/L	--		--	<1.0	<1.0	<1.0	<1.00	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<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	ug/L	70	HRL	--	<0.2	<10	<0.2	<1.00	<0.2	<0.2	<0.2	<0.2	0.6	0.3	0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
1,2-Dichloroethane	ug/L	4	HRL	5 MCL	<0.2	<10	<0.2	<1.00	<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
1,1-Dichloroethene	ug/L	6	HRL	7 MCL	<0.2	<10	<0.2	<1.00	<0.5	<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
cis-1,2-Dichloroethene	ug/L	70	HRL	70 MCL	2.4	1.3	1.3	0.872 J	0.6	2.4	3.5	**0.5**	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	3.5	0.6	<0.2	<0.2	<0.2	<0.2	<0.2
trans-1,2-Dichloroethene	ug/L	100	HRL	100 MCL	9.1	3.6	2.7	1.57	0.4	1.0	1.6	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	**0.1**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dichlorodifluoromethane	ug/L	1000	HRL	--	<0.1	<10	<1.0	<1.00	<0.5	<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
Dichlorofluoromethane	ug/L	--		--	<0.5	<10	<0.5	<1.00	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**0.4 J**	**0.6**	**0.4 J**	<0.5	<0.5	<0.5	<0.5	<0.5
Ethylbenzene	ug/L	700	HRL	700 MCL	**21**	**1.8**	**7.7**	**5.73**	0.4	1.3	3	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Isopropylbenzene	ug/L	300	HRL*	--	**1.7**	<10	**0.7**	**0.596 J**	<0.5	<0.5	**0.28 J**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
p-Isopropyltoluene	ug/L	--		--	<0.5	<10	<0.5	<1.00	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Methylene chloride (Dichloromethane)	ug/L	5	HRL	5 MCL	<0.5	<10	<0.5	<1.00	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Naphthalene	ug/L	300	HRL	--	<1.0	<10	**1.5**	**0.804 J**	<0.5	<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
n-Propylbenzene	ug/L	--		--	<0.5	<10	**0.25 J**	<1.00	<0.5	<0.5	**0.21 J**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Styrene	ug/L	--		100 MCL	<0.5	<10	<0.5	<1.00	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Tetrachloroethene	ug/L	5	HRL	5 MCL	<0.2	**0.3**	<0.2	<1.00	**0.4**	**0.3**	**0.3**	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	**0.11 J**	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Tetrahydrofuran	ug/L	--		--	<10	<10	<10	<5.00	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Toluene	ug/L	1000	HRL	1000 MCL	0.7	0.4 J	0.28 J	<1.00	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,1,1-Trichloroethane	ug/L	200	HRL	200 MCL	<0.2	<10	<0.2	<1.00	<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
Trichloroethene (TCE)	ug/L	5	HRL	5 MCL	**0.4**	**4.7**	<0.1	<1.00	**3.2**	**2.3**	**2.6**	<0.1	<0.1	**0.055 J**	<0.1	<0.1	<0.1	**0.1 J**	**0.083 J**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,2,4-Trimethylbenzene	ug/L	--		--	**3.4**	<10	<0.5	<1.00	<0.5	<0.5	**0.43 J**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,3,5-Trimethylbenzene	ug/L	--		--	**1.3**	<10	<0.5	<1.00	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Vinyl Chloride	ug/L	0.2	HRL	2 MCL	**0.5**	**0.2 J**	**0.3**	<1.00	<0.5	**0.1 J**	**0.17 J**	<0.2	**2.6**	**1.0**	**1.1**	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
o-Xylene	ug/L	--		--	**7.7**	**0.8**	**2.4**	**1.66**	<0.2	<0.2	**0.6**	<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
p&m-Xylene	ug/L	--		--	**1.4**	**0.5**	**0.3**	<2.00	<0.2	<0.3	**0.12 J**	<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
Xylene (total)	ug/L	10000	HRL	10000 MCL	**9.1**	**1.3**	**2.7**	**3.66**	<0.4	<0.5	**0.72**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5

Notes:

Bold face - detect

0.5 - framed cell - detected concentration exceeds MN drinking water criteria

18 - shaded cell - detected concentration exceeds Federal drinking water criteria

135 - increasing trend in concentrations

37 - decreasing trend in concentrations

J - The analyte positively identified, below the report level, estimated

RC - Report level was changed due to sample dilution

* - due to new research, the MDH no longer recommends the HRL value

HBV - Health Based Values derived by Minnesota Department of Health

HRL - Health Risk Level derived and promulgated in rule by Minnesota Department of Health

MCL - Maximum Contaminant Level (USEPA)

Table 4
Groundwater Analytical Results - Prairie du Chien / Jordan Aquifer Wells
St. Louis Park / Edina / Hopkins Groundwater VOC Contamination
STS Project 200804044

Well Name:					W W WOLD & L M WOLD	PERRY A & CINDY L WITKIN	Mike Kelly 952-922-9012	Mike Kelly 952-922-9012	PETER M & ELLEN B KAISER	JASON F BROWN	Peter M Schimit/Kathi J. Wright	Peter M Schimit/Kathi J. Wright	ED2	ED2	ED2	ED2	ED3	ED3	ED4	ED6	ED7	ED7	ED7	ED7	ED7	ED7	ED7	ED7	ED7-DUP
CWI Name:					JOHN ANDERSON	J. J. LIEBENBERG	EDINA COUNTRY CLUB NO.1	EDINA COUNTRY CLUB NO.1	FRED SMITH	JOE ELIASON	LEW BONN	LEW BONN	EDINA 2	EDINA 2	EDINA 2	EDINA 2	EDINA 3	EDINA 3	EDINA 4	EDINA 6	EDINA 7	EDINA 7	EDINA 7	EDINA 7	EDINA 7	EDINA 7	EDINA 7	EDINA 7	EDINA 7
MN Unique Well No.:					00206547	00203620	00232315	00232315	00206502	00206599	00223769	00223769	00208399	00208399	00208399	00208399	00240630	00240630	00200561	00200564	00206474	00206474	00206474	00206474	00206474	00206474	00206474	00206474	00206474
Aquifer:					Drift-OPCJ	St. Peter-OPCJ	OPCJ	OPCJ	OPCJ	OPCJ	OPCJ	OPCJ	OPCJ	OPCJ	OPCJ	OPCJ	OPCJ	OPCJ	OPCJ	OPCJ	OPCJ	OPCJ	OPCJ	OPCJ	OPCJ	OPCJ	OPCJ	OPCJ	OPCJ
STS Sample ID:					PRI. #4	EDINA PRI #1	EDINA CC #1	EDINA CC #1 - Dup	Edina Pri #5	EDINA PRI #2	EDINA PR#3	EDINA PR#3 - Dup	EDINA #2	EDINA #2 - Dup			EDINA #3		EDINA #4	EDINA #6		ED7#1 360'	ED7#2 400'	ED7#6 520'	ED7#3 450'	ED7#4 500'	410'	410'
MDH Sample No:					200430253	200429907	200430525	200430526	200431474	200429907	200430251	200430252	200429900	200429901	200711648	200810155	200430255	200611316	200430254	200429904		200501036	200501037	200501041	200501038	200501039	200836027	200836028
Sample Date:					10/27/04	10/22/04	11/01/04	11/01/04	11/10/04	10/22/04	10/27/04	10/27/04	10/22/04	10/22/04	05/15/07	05/01/08	10/27/04	05/09/06	10/27/04	10/22/04	01/26/04	01/20/05	01/20/05	01/20/05	01/20/05	01/20/05	12/15/08	12/15/08
Notes:					Spigot Water Sample	Spigot Water Sample	Spigot Water Sample	Spigot Water Sample, Duplicate	Spigot Water Sample	Spigot Water Sample	Spigot Water Sample	Spigot Water Sample, Duplicate	Spigot Water Sample	Spigot Water Sample, Duplicate	ENSR Split Sample (E2)	ENSR Split Sample (E2)	Spigot Water Sample	ENSR Split Sample	Spigot Water Sample	Spigot Water Sample	Spigot Water Sample	Discrete Sample	Discrete Sample	Discrete Sample, Duplicate	Discrete Sample	Discrete Sample	Discrete Sample	Discrete Sample
Detected Contaminants		MN Drinking Water Standards		Federal Drinking Water Standards																									
Benzene	ug/L	5	HRL	5 MCL	<0.2	<0.2	**0.4**	**0.4**	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	0.11 J	**0.3**	<0.2	<1.0	<0.2	<0.2	<0.2	<0.2	**0.8**	**0.8**	**0.8**	**0.8**	<0.2	<0.2
Bromodichloromethane	ug/L	6	HRL	--	<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	<1.0	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
n-Butylbenzene	ug/L	--		--	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Chlorodibromoethane	ug/L	--		--	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Chloroethane	ug/L	--		--	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Chloroform	ug/L	60	HRL	--	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<1.0	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,1-Dichloroethane	ug/L	70	HRL	--	<0.2	<0.2	**0.4**	**0.4**	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	**0.1 J**	<0.2	<1.0	<0.2	<0.2	<0.2	<0.2	**0.6**	**0.6**	**0.6**	**0.6**	<0.2	<0.2
1,2-Dichloroethane	ug/L	4	HRL	5 MCL	<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	<1.0	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
1,1-Dichloroethene	ug/L	6	HRL	7 MCL	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2	<0.5	<0.5	<1.0	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2	<0.2
cis-1,2-Dichloroethene	ug/L	70	HRL	70 MCL	<0.2	<0.2	**16**	**16**	<0.2	<0.2	<0.2	<0.2	**1.8**	**2.0**	**3.7**	**9.9**	<0.2	<1.0	<0.2	<0.2	<0.2	<0.2	39	38	37	37	**1.0**	**1.0**
trans-1,2-Dichloroethene	ug/L	100	HRL	100 MCL	<0.1	<0.1	**0.7**	**0.7**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.2	0.5	<0.1	<1.0	<0.1	<0.1	<0.1	<0.1	**3.7**	**3.3**	**3.2**	**3.4**	<0.1	<0.1
Dichlorodifluoromethane	ug/L	1000	HRL	--	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	0.28 J	**<1.0**	<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	ug/L	--		--	<0.5	<0.5	**1.0**	**1.0**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**0.6**	<0.5	<1.0	<0.5	<0.5	<0.5	<0.5	**1.7**	**1.6**	**1.7**	**1.7**	<0.5	<0.5
Ethylbenzene	ug/L	700	HRL	700 MCL	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Isopropylbenzene	ug/L	300	HRL*	--	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
p-Isopropyltoluene	ug/L	--		--	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Methylene chloride (Dichloromethane)	ug/L	5	HRL	5 MCL	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Naphthalene	ug/L	300	HRL	--	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<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	ug/L	--		--	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Styrene	ug/L	--		100 MCL	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Tetrachloroethene	ug/L	5	HRL	5 MCL	<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	<1.0	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Tetrahydrofuran	ug/L	--		--	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<1.0	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Toluene	ug/L	1000	HRL	1000 MCL	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	<0.5	<0.5	<0.5	**3.3**	**0.8**	**0.9**	**1.4**	**1.9**	<0.5	<0.5
1,1,1-Trichloroethane	ug/L	200	HRL	200 MCL	<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	<1.0	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
1,1,2-Trichloroethane	ug/L	3	HRL	5 MCL	<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	<0.2	<0.2	<0.2
Trichloroethene (TCE)	ug/L	5	HRL	5 MCL	<0.1	<0.1	**1.2**	**1.1**	<0.1	<0.1	<0.1	<0,1	**0.2**	**0.2**	**0.3**	**0.5**	<0.1	<1.0	<0.1	<0.1	<0.1	<0.1	**2.3**	**2.2**	**2.3**	**2.2**	<0.1	<0.1
1,2,4-Trimethylbenzene	ug/L	--		--	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,3,5-Trimethylbenzene	ug/L	--		--	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Vinyl Chloride	ug/L	0.2	HRL	2 MCL	<0.2	<0.2	**2.0**	**2.1**	<0.2	<0.2	<0.2	<0.2	**0.4**	**0.4**	**0.6**	**1.4**	<0.2	<1.0	<0.2	<0.2	**3.9**	<0.2	**3.3**	**3.2**	**3.4**	**3.5**	<0.2	<0.2
o-Xylene	ug/L	--		--	<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	<1.0	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
p&m-Xylene	ug/L	--		--	<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	<1.0	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Xylene (total)	ug/L	10000	HRL	10000 MCL	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2.0	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5

Notes:

Bold face - detect

2.0 - framed cell - detected concentration exceeds MN drinking water criteria

2.1 - shaded cell - detected concentration exceeds Federal drinking water criteria

135 - increasing trend in concentrations

37 - decreasing trend in concentrations

J - The analyte positively identified, below the report level, estimated
QR - Did not meet QC acceptance criteria - result is estimated
RC - Report level was changed due to sample dilution
* - due to new research, the MDH no longer recommends the HRL value
HBV - Health Based Values derived by Minnesota Department of Health
HRL - Health Risk Level derived and promulgated in rule by Minnesota Department of Health
MCL - Maximum Contaminant Level (USEPA)

Table 4
Groundwater Analytical Results - Prairie du Chien / Jordan Aquifer Wells
St. Louis Park / Edina / Hopkins Groundwater VOC Contamination
STS Project 200804044

				Well Name:	ED13	ED13	ED13	ED13-DUP	ED13	ED15	ED15	ED15	ED15	EDINA 16	ED17	ED TEST	ED TEST	ED TEST	ED TEST	ED TEST	MILASTAR CORPORAT. (W29)	MILASTAR CORPORAT. (W29)	MILASTAR CORPORAT. (W29)	MILASTAR CORPORAT. (W29)	HOPKINS 4	HOPKINS 5
				CWI Name:	EDINA 13	EDINA 13	EDINA 13	EDINA 13	EDINA 13	EDINA 15	EDINA 15	EDINA 15	EDINA 15	EDINA 16	EDINA 17						FLAME INDUSTRIES	FLAME INDUSTRIES	FLAME INDUSTRIES	FLAME INDUSTRIES	HOPKINS 4	HOPKINS 5
				MN Unique Well No.:	00203613	00203613	00203613	00203613	00203613	00207674	00207674	00207674	00207674	00203101	00200914	00748656	00748656	00748656	00748656	00748656	00206454	00206454	00206454	00206454	00204068	00204570
				Aquifer:	OPCJ	OPCJ	OPCJ	OPCJ	OPCJ	OPCJ	OPCJ	OPCJ	OPCJ	OPCJ	OPCJ	OPCJ	OPCJ	OPCJ	OPCJ	OPCJ	OPCJ	OPCJ	OPCJ	OPCJ	OPCJ	OPCJ
				STS Sample ID:	EDINA #13					EDINA #15				EDINA 16	EDINA #17	ED TEST #1 280'	ED TEST #1 330'	ED TEST #1 400'	ED TEST #1 440'	310'	FI 1	FI 2			HOPKINS 4	HOPKINS 5
				MDH Sample No:	200429903	200611314	200711645	200711646	200810163	200429907		200711647	200810157	200531627	200430256	200706710	200706712	200706714	200706716	2008036026	200432021	200432022	200612185	200711642	200531623	200531626
				Sample Date:	10/22/04	05/09/06	05/15/07	05/15/07	05/01/08	10/22/04	05/09/06	05/15/07	05/01/08	11/10/05	10/27/04	04/05/07	04/05/07	04/05/07	04/05/07	12/15/08	11/19/04	11/19/04	05/16/06	05/14/07	11/10/05	11/10/05
				Notes:	Spigot Water Sample	ENSR Split Sample	ENSR Split Sample (E13)	ENSR Split Sample (W13DUP)	ENSR Split Sample (W13DUP)	Spigot Water Sample	ENSR Split Sample	ENSR Split Sample (E15)	ENSR Split Sample (E15)	Spigot Water Sample	Spigot Water Sample	Discrete Sample	Discrete Sample	Discrete Sample	Discrete Sample	Discrete Sample	Spigot Water Sample	Spigot Water Sample	ENSR Split Sample	ENSR Split Sample	Spigot Water Sample	Spigot Water Sample
Detected Contaminants		MN Drinking Water Standards		Federal Drinking Water Standards																						
Benzene	ug/L	5	HRL	5 MCL	<0.2	<1.0	**0.18 J**	**0.19 J**	**0.2**	<0.2	<1.0	**0.11 J**	**0.1 J**	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	**0.9**	**0.9**	<1.0	**0.14 J**	<0.2	<0.2
Bromodichloromethane	ug/L	6	HRL	--	<0.2	<1.0	<0.2	<0.2	<0.2	<0.2	<1.0	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<1.0	<0.2	<0.2	<0.2
n-Butylbenzene	ug/L	--		--	<0.5	<1.0	<0.5	<0.5	<0.5	<0.5	<1.0	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	<0.5	<0.5	<0.5
Chlorodibromoethane	ug/L	--		--	<0.5	<1.0	<0.5	<0.5	<0.5	<0.5	<1.0	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	<0.5	<0.5	<0.5
Chloroethane	ug/L	--		--	<0.5	<1.0	<0.5	<0.5	<0.5	<0.5	<1.0	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	<0.5	<0.5	<0.5
Chloroform	ug/L	60	HRL	--	<0.1	<1.0	<0.1	<0.1	<0.1	<0.1	<1.0	<0.1	**0.1**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.8	<0.1	<0.1	<1.0	<0.1	<0.1	<0.1
1,1-Dichloroethane	ug/L	70	HRL	--	<0.2	<1.0	**0.16 J**	**0.16 J**	**0.2**	**1.3**	**1.3**	**1.3**	**1.9**	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	**0.5**	**0.5**	<1.0	<0.2	<0.2	<0.2
1,2-Dichloroethane	ug/L	4	HRL	5 MCL	<0.2	<1.0	<0.2	<0.2	<0.2	<0.2	<1.0	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<1.0	<0.2	<0.2	<0.2
1,1-Dichloroethene	ug/L	6	HRL	7 MCL	<0.5	<1.0	<0.2	<0.2	<0.2	**1.0**	**1.0**	**0.8**	**0.9**	<0.5	<0.5	<0.2	<0.2	<0.2	<0.2	<0.2	**0.5**	<0.5	<1.0	<0.2	<0.5	<0.5
cis-1,2-Dichloroethene	ug/L	70	HRL	70 MCL	**0.8**	**3.0**	**3.6**	**3.8**	**5.4**	**7.1**	**5.7**	**6.6**	**8.3**	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	**47**	**46**	**2.9**	**3.1**	<0.2	<0.2
trans-1,2-Dichloroethene	ug/L	100	HRL	100 MCL	<0.1	<1.0	**0.2**	**0.2**	**0.3**	**0.4**	<1.0	**0.3**	**0.4**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	2.4	2.4	<1.0	0.2	<0.1	<0.1
Dichlorodifluoromethane	ug/L	1000	HRL	--	<1.0	<1.0	**0.22 J**	**0.23 J**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	**1.2**	**1.2**	<1.0	<0.1	<1.0	<1.0
Dichlorofluoromethane	ug/L	--		--	<0.5	<1.0	<0.5	<0.5	**0.3 J**	<0.5	<1.0	**0.26 J**	**0.3 J**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	2.4	2.4	0.5 J	0.6	<0.5	<0.5
Ethylbenzene	ug/L	700	HRL	700 MCL	<0.5	<1.0	<0.5	<0.5	<0.5	<0.5	<1.0	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	<0.5	<0.5	<0.5
Isopropylbenzene	ug/L	300	HRL*	--	<0.5	<1.0	<0.5	<0.5	<0.5	<0.5	<1.0	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	<0.5	<0.5	<0.5
p-Isopropyltoluene	ug/L	--		--	<0.5	<1.0	<0.5	<0.5	<0.5	<0.5	<1.0	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	<0.5	<0.5	<0.5
Methylene chloride (Dichloromethane)	ug/L	5	HRL	5 MCL	<0.5	<1.0	<0.5	<0.5	<0.5	<0.5	<1.0	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	12	<0.5	<0.5	<1.0	<0.5	<0.5	<0.5
Naphthalene	ug/L	300	HRL	--	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<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	ug/L	--		--	<0.5	<1.0	<0.5	<0.5	<0.5	<0.5	<1.0	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	<0.5	<0.5	<0.5
Styrene	ug/L	--		100 MCL	<0.5	<1.0	<0.5	<0.5	<0.5	<0.5	<1.0	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	<0.5	<0.5	<0.5
Tetrachloroethene	ug/L	5	HRL	5 MCL	<0.2	<1.0	<0.2	<0.2	<0.2	<0.2	<1.0	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<1.0	<0.2	<0.2	<0.2
Tetrahydrofuran	ug/L	--		--	<10	<1.0	<10	<10	<10	<10	<1.0	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<1.0	<10	<10	<10
Toluene	ug/L	1000	HRL	1000 MCL	<0.5	<1.0	<0.5	<0.5	<0.5	<0.5	<1.0	<0.5	<0.5	<0.5	<0.5	**0.3 J**	**0.2 J**	**0.2 J**	**0.2 J**	<0.5	<0.5	<0.5	<1.0	<0.5	<0.5	<0.5
1,1,1-Trichloroethane	ug/L	200	HRL	200 MCL	<0.2	<1.0	<0.2	<0.2	<0.2	**1.1**	**0.7 J**	**0.8**	**0.6**	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<1.0	<0.2	<0.2	<0.2
1,1,2-Trichloroethane	ug/L	3	HRL	5 MCL	<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	<0.2
Trichloroethene (TCE)	ug/L	5	HRL	5 MCL	**0.1**	<1.0	**0.4**	**0.4**	**0.4**	**1.9**	**2.0**	**1.7**	**2.1**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	**2.9**	**2.7**	**0.9 J**	**0.9**	<0.1	<0.1
1,2,4-Trimethylbenzene	ug/L	--		--	<0.5	<1.0	<0.5	<0.5	<0.5	<0.5	<1.0	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	<0.5	<0.5	<0.5
1,3,5-Trimethylbenzene	ug/L	--		--	<0.5	<1.0	<0.5	<0.5	<0.5	<0.5	<1.0	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	<0.5	<0.5	<0.5
Vinyl Chloride	ug/L	0.2	HRL	2 MCL	<0.2	<1.0	**0.5**	**0.4**	**0.6**	**0.9**	**0.6 J**	**0.6**	**0.8**	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	5.3	5.2	**0.95 J**	**0.8**	<0.2	<0.2
o-Xylene	ug/L	--		--	<0.2	<1.0	<0.2	<0.2	<0.2	<0.2	<1.0	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<1.0	<0.2	<0.2	<0.2
p&m-Xylene	ug/L	--		--	<0.3	<1.0	<0.3	<0.3	<0.3	<0.3	<1.0	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<1.0	<0.3	<0.3	<0.3
Xylene (total)	ug/L	10000	HRL	10000 MCL	<0.5	<2.0	<0.5	<0.5	<0.5	<0.5	<2.0	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2.0	<0.5	<0.5	<0.5

Notes:

Bold face - detect

2.0 - framed cell - detected concentration exceeds MN drinking water criteria

2.1 - shaded cell - detected concentration exceeds Federal drinking water criteria

135 - increasing trend in concentrations

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J - The analyte positively identified, below the report level, estimated
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Table 4
Groundwater Analytical Results - Prairie du Chien / Jordan Aquifer Wells
St. Louis Park / Edina / Hopkins Groundwater VOC Contamination
STS Project 200804044

				Well Name:	HOPKINS 6	HOPKINS 6	HOPKINS 6	HOPKINS 6	MINNETONKA 6	MINNETONKA 6	MINNETONKA 13	MINNETONKA 13A	SLP4	SLP4	SLP4	SLP4	SLP4-DUP	SLP4	SLP5	SLP6	SLP6	SLP6	SLP6	SLP6	SLP6
				CWI Name:	HOPKINS 6	HOPKINS 6	HOPKINS 6	HOPKINS 6	MINNETONKA 6	MINNETONKA 6	MINNETONKA 13	MINNETONKA 13A	ST. LOUIS PARK 4	ST. LOUIS PARK 4	ST. LOUIS PARK 4	ST. LOUIS PARK 4	ST. LOUIS PARK 4	ST. LOUIS PARK 4	ST. LOUIS PARK 5	ST. LOUIS PARK 6	ST. LOUIS PARK 6	ST. LOUIS PARK 6	ST. LOUIS PARK 6	ST. LOUIS PARK 6	ST. LOUIS PARK 6
				MN Unique Well No.:	00112228	00112228	00112228	00112228	00204054	00204054	00205165	00132263	00200542	00200542	00200542	00200542	00200542	00200542	00203196	00206457	00206457	00206457	00206457	00206457	00206457
				Aquifer:	OPCJ	OPCJ	OPCJ	OPCJ	OPCJ	OPCJ	OPCJ	OPCJ	OPCJ	OPCJ	OPCJ	OPCJ	OPCJ	OPCJ	OPCJ	OPCJ	OPCJ	OPCJ	OPCJ	OPCJ	OPCJ
				STS Sample ID:	HOPKINS 6	HOPKINS 10					MTKA 13	MTKA 13A									SLP #6				
				MDH Sample No:	200531628	200531624	200612186	200810150	200612187	200810153	200531622	200531625	200423866	200612182	200711644		200810158			200423867	200431473		200612188	200711643	200810163
				Sample Date:	11/10/06	11/10/05	05/16/06	04/30/08	05/16/06	04/30/08	11/10/05	11/10/05	8/16/2004	5/16/2006	5/14/2007	5/1/2008	5/1/2008	Spring 2008	Spring 2008	8/16/2004	11/10/04	5/10/2005	5/16/2006	5/14/2007	4/30/2008
				Notes:	Spigot Water Sample	Spigot Water Sample, Duplicate	ENSR Split Sample	ENSR Split Sample	ENSR Split Sample	ENSR Split Sample	Spigot Water Sample	Spigot Water Sample	City of St. Louis Park Data	ENSR Split Sample	ENSR Split Sample	ENSR Split Sample	ENSR Split Sample	Collected by Pace for EPA	Collected by Pace for EPA	City of St. Louis Park Data	Spigot Water Sample	ENSR Split Sample	ENSR Split Sample	ENSR Split Sample	ENSR Split Sample
Detected Contaminants		MN Drinking Water Standards		Federal Drinking Water Standards														Pace Sample No.: 0289-50061 SLP04	Pace Sample No.: 0289-50062 SLP05						
Benzene	ug/L	5	HRL	5 MCL	<0.2	<0.2	<1.0	<0.2	<1.0	<0.2	<0.2	<0.2	<0.2	<1.0	**0.4**	**0.4**	<1.0	<5.00	<5.00	**0.8**	**0.8**	**0.9**	**1.0**	**1.0**	**1.5**
Bromodichloromethane	ug/L	6	HRL	--	<0.2	<0.2	<1.0	<0.2	<1.0	<0.2	<0.2	<0.2	<0.2	<1.0	<0.2	<0.2	<1.0	<5.00	<5.00	<0.2	<0.2	<0.2	<1.0	<0.2	<0.2
n-Butylbenzene	ug/L	--		--	<0.5	<0.5	<1.0	<0.5	<1.0	<0.5	<0.5	<0.5	<0.5	<1.0	<0.5	<0.5	<1.0	<5.00	<5.00	<0.5	<0.5	<0.5	<1.0	<0.5	<0.5
Chlorodibromoethane	ug/L	--		--	<0.5	<0.5	<1.0	<0.5	<1.0	<0.5	<0.5	<0.5	<0.5	<1.0	<0.5	<0.5	<1.0	<5.00	<5.00	<0.5	<0.5	<0.5	<1.0	<0.5	<0.5
Chloroethane	ug/L	--		--	<0.5	<0.5	<1.0	<0.5	<1.0	<0.5	<0.5	<0.5	<0.5	<1.0	<0.5	<0.5	<1.0	<5.00	<5.00	<0.5	<0.5	<0.5	<1.0	<0.5	<0.5
Chloroform	ug/L	60	HRL	--	<0.1	<0.1	<1.0	<0.1	<1.0	<0.1	<0.1	<0.1	<0.1	<1.0	<0.1	<0.1	**0.6**	<5.00	<5.00	<0.1	<0.1	<0.1	<1.0	<0.1	<0.1
1,1-Dichloroethane	ug/L	70	HRL	--	<0.2	<0.2	<1.0	<0.2	<1.0	<0.2	<0.2	<0.2	<0.2	<1.0	**0.10 J**	**0.1 J**	<1.0	<5.00	<5.00	**1.1**	**1.2**	**1.1**	**1.2**	**1.1**	**1.4**
1,2-Dichloroethane	ug/L	4	HRL	5 MCL	<0.2	<0.2	<1.0	<0.2	<1.0	<0.2	<0.2	<0.2	<0.2	<1.0	<0.2	**0.1 J**	<1.0	<5.00	<5.00	<0.2	<0.2	<0.2	<1.0	**0.3**	**0.4**
1,1-Dichloroethene	ug/L	6	HRL	7 MCL	<0.5	<0.5	<1.0	<0.5	<1.0	<0.5	<0.5	<0.5	<0.5	<1.0	**0.11 J**	<1.0	<1.0	<5.00	<5.00	<0.5	<0.5	<0.2	**0.5 J**	**0.37 J**	**0.7**
cis-1,2-Dichloroethene	ug/L	70	HRL	70 MCL	**1.0**	**0.9**	**1.2**	**0.3**	<1.0	**0.4**	<0.2	<0.2	<0.2	**3.5**	**5.4**	**8.7**	**0.7**	<5.00	<5.00	**22**	**24**	**28**	**31**	**35**	**55**
trans-1,2-Dichloroethene	ug/L	100	HRL	100 MCL	**0.5**	**0.5**	**0.5 J**	<0.1	<1.0	<0.1	<0.1	<0.1	<0.1	**0.5 J**	**0.6**	**0.7**	<1.0	<5.00	<5.00	**1.6**	**1.4**	**1.4**	**1.8**	**2.2**	**2.5**
Dichlorodifluoromethane	ug/L	1000	HRL	--	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	**0.6**	<1.0	**0.273 J**	<1.0	**0.5 J**	<5.00	<5.00	**1.4**	**1.3**	**1.3**	**1.1**	**0.58 J**	<0.5
Dichlorofluoromethane	ug/L	--		--	<0.5	<0.5	<1.0	<0.5	<1.0	<0.5	<0.5	<0.5	**1.4**	**1.5**	**1.2**	**1.2**	**1.2**	<5.00	<5.00	**2.6**	**2.8**	**2.5**	**3.0**	**2.9**	**3.8**
Ethylbenzene	ug/L	700	HRL	700 MCL	<0.5	<0.5	<1.0	<0.5	<1.0	<0.5	<0.5	<0.5	<0.2	<1.0	<0.5	<0.5	<0.2	<5.00	<5.00	<0.2	<0.5	<0.5	<1.0	<0.5	<0.5
Isopropylbenzene	ug/L	300	HRL*	--	<0.5	<0.5	<1.0	<0.5	<1.0	<0.5	<0.5	<0.5	<0.5	<1.0	<0.5	<0.5	<0.5	<5.00	<5.00	<0.5	<0.5	<0.5	<1.0	<0.5	<0.5
p-Isopropyltoluene	ug/L	--		--	<0.5	<0.5	<1.0	<0.5	<1.0	<0.5	<0.5	<0.5	<0.5	<1.0	<0.5	<0.5	<0.5	<5.00	<5.00	<0.5	<0.5	<0.5	<1.0	<0.5	<0.5
Methylene chloride (Dichloromethane)	ug/L	5	HRL	5 MCL	<0.5	<0.5	<1.0	<0.5	<1.0	<0.5	<0.5	<0.5	<0.5	<1.0	<0.5	<0.5	<0.5	<5.00	<5.00	<0.5	<0.5	<0.5	<1.0	<0.5	<0.5
Naphthalene	ug/L	300	HRL	--	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5	<1.0	<1.0	<1.0	<0.5	<5.00	<5.00	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0
n-Propylbenzene	ug/L	--		--	<0.5	<0.5	<1.0	<0.5	<1.0	<0.5	<0.5	<0.5	<0.5	<1.0	<0.5	<0.5	<0.5	<5.00	<5.00	<0.5	<0.5	<0.5	<1.0	<0.5	<0.5
Styrene	ug/L	--		100 MCL	<0.5	<0.5	<1.0	<0.5	<1.0	<0.5	<0.5	<0.5	<0.5	<1.0	<0.5	<0.5	<0.5	<5.00	<5.00	<0.5	<0.5	<0.5	<1.0	<0.5	<0.5
Tetrachloroethene	ug/L	5	HRL	5 MCL	<0.2	<0.2	<1.0	<0.2	<1.0	<0.2	<0.2	<0.2	<0.2	<1.0	<0.2	<0.2	<0.2	<5.00	<5.00	<0.2	<0.2	<0.2	<1.0	<0.2	<0.2
Tetrahydrofuran	ug/L	--		--	<10	<10	<1.0	<10	<1.0	<10	<10	<10	<10	<1.0	<10	<10	<10	<5.00	<5.00	<10	<10	<10	<1.0	<10	<10
Toluene	ug/L	1000	HRL	1000 MCL	<0.5	<0.5	<1.0	<0.5	<1.0	<0.5	<0.5	<0.5	<0.2	<1.0	<0.5	<0.5	<0.2	<5.00	<5.00	<0.2	<0.5	<0.5	<1.0	<0.5	<0.5
1,1,1-Trichloroethane	ug/L	200	HRL	200 MCL	<0.2	<0.2	<1.0	<0.2	<1.0	<0.2	<0.2	<0.2	<0.2	<1.0	<0.2	<0.2	<0.2	<5.00	<5.00	<0.2	<0.2	<0.2	<1.0	<0.2	<0.2
1,1,2-Trichloroethane	ug/L	3	HRL	5 MCL	<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	<5.00	<5.00	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Trichloroethene (TCE)	ug/L	5	HRL	5 MCL	<0.1	<0.1	<1.0	<0.1	<1.0	<0.1	<0.1	<0.1	<0.1	**4.2**	**3.7**	**3.4**	<0.1	<5.00	<5.00	**6.6**	**7.2**	**7**	**7.8**	**6.9**	**9.5**
1,2,4-Trimethylbenzene	ug/L	--		--	<0.5	<0.5	<1.0	<0.5	<1.0	<0.5	<0.5	<0.5	<0.5	<1.0	<0.5	<0.5	<0.5	<5.00	<5.00	<0.5	<0.5	<0.5	<1.0	<0.5	<0.5
1,3,5-Trimethylbenzene	ug/L	--		--	<0.5	<0.5	<1.0	<0.5	<1.0	<0.5	<0.5	<0.5	<0.5	<1.0	<0.5	<0.5	<0.5	<5.00	<5.00	<0.5	<0.5	<0.5	<1.0	<0.5	<0.5
Vinyl Chloride	ug/L	0.2	HRL	2 MCL	<0.2	<0.2	<1.0	<0.2	<1.0	<0.2	<0.2	<0.2	**1.5**	**1.9**	**1.5**	**1.9**	**1.5**	<5.00	<5.00	**4.4**	**4.9**	**5.1**	**5.9**	**3.7**	**6.8**
o-Xylene	ug/L	--		--	<0.2	<0.2	<1.0	<0.2	<1.0	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<5.00	<5.00	<0.2	<0.2	<0.2	<1.0	<0.2	<0.2
p&m-Xylene	ug/L	--		--	<0.3	<0.3	<1.0	<0.3	<1.0	<0.3	<0.3	<0.3	<0.2	<0.2	<0.3	<0.3	<0.2	<10.00	<10.00	<0.2	<0.3	<0.3	<1.0	<0.3	<0.3
Xylene (total)	ug/L	10000	HRL	10000 MCL	<0.5	<0.5	<2.0	<0.5	<2.0	<0.5	<0.5	<0.5	<0.4	<0.4	<0.5	<0.5	<0.4	<15.00	<15.00	<0.4	<0.5	<0.5	<2.0	<0.5	<0.5

Notes:

Bold face - detect

2.0	- framed cell - detected concentration exceeds MN drinking water criteria
2.1	- shaded cell - detected concentration exceeds Federal drinking water criteria
135	- increasing trend in concentrations
37	- decreasing trend in concentrations

J - The analyte positively identified, below the report level, estimated
QR - Did not meet QC acceptance criteria - result is estimated
RC - Report level was changed due to sample dilution
* - due to new research, the MDH no longer recommends the HRL value
HBV - Health Based Values derived by Minnesota Department of Health
HRL - Health Risk Level derived and promulgated in rule by Minnesota Department of Health
MCL - Maximum Contaminant Level (USEPA)

Table 4
Groundwater Analytical Results - Prairie du Chien / Jordan Aquifer Wells
St. Louis Park / Edina / Hopkins Groundwater VOC Contamination
STS Project 200804044

				Well Name:	SLP10	SLP10	SLP10	SLP10	SLP10T	SLP10	SLP14	SLP16	W23	W23	W23	W23	W23	W29	THERMOTECH COMPANY	THERMOTECH COMPANY	W48	W48	W48	W48	W48	W48
				CWI Name:	ST. LOUIS PARK 10	ST. LOUIS PARK 10	ST. LOUIS PARK 10	ST. LOUIS PARK 10	ST. LOUIS PARK 10	ST. LOUIS PARK 10	ST. LOUIS PARK NO.14	ST. LOUIS PARK NO. 16	REPUBLIC CREOSOTE DEEP W (W23)	REPUBLIC CREOSOTE DEEP W (W23)	REPUBLIC CREOSOTE DEEP W (W23)	REPUBLIC CREOSOTE DEEP W (W23)	REPUBLIC CREOSOTE DEEP W (W23)	FLAME INDUSTRIES	THERMOTECH	THERMOTECH 2	METHODIST HOSPITAL	METHODIST HOSPITAL	METHODIST HOSPITAL	METHODIST HOSPITAL	METHODIST HOSPITAL	METHODIST HOSPITAL
				MN Unique Well No.:	00206442	00206442	00206442	00206442	00206442	00206442	00227965	00203187	00216050	00216050	00216050	00216050	00216050	00206454	00204574	227132	00216067	00216067	00216067	00216067	00216067	00216067
				Aquifer:	OPCJ	OPCJ	OPCJ	OPCJ	OPCJ	OPCJ	OPCJ	OPCJ	OPCJ	OPCJ	OPCJ	OPCJ	OPCJ	OPCJ	OPCJ	OPCJ	OPCJ	OPCJ	OPCJ	OPCJ	OPCJ	OPCJ
				STS Sample ID:									REP. CERO.	REP. CERO. 2					THERMO 1202	THERMO 1202	Methodist #1	Methodist #2				
				MDH Sample No:	200423865		200610290	200712747	200810159	200811242	200612178	200612179	200432992	200432993	200610291	200712748	200811239	200810161	200531629	200603045	200431471	200431475		200610300	200710993	200810160
				Sample Date:	8/16/2004	5/10/2005	5/1/2006	5/22/2007	5/1/2008	5/5/2008	5/15/2006	5/15/2006	12/9/2004	12/9/2004	5/1/2006	5/22/2007	5/5/2008	5/1/2008	11/16/2005	2/10/2006	11/10/04	11/10/04	5/10/2005	5/4/2006	5/10/2007	5/1/2008
				Notes:	City of St. Louis Park Data	ENSR Split Sample	ENSR Split Sample	ENSR Split Sample	ENSR Split Sample	ENSR Split Sample	ENSR Split Sample	ENSR Split Sample	Spigot Water Sample	Spigot Water Sample, Duplicate	ENSR Split Sample	ENSR Split Sample	ENSR Split Sample		Spigot Water Sample	Spigot Water Sample	Spigot Water Sample	Spigot Water Sample, Duplicate	ENSR Split Sample	ENSR Split Sample	ENSR Split Sample	ENSR Split Sample
Detected Contaminants		MN Drinking Water Standards		Federal Drinking Water Standards																						
Benzene	ug/L	5	HRL	5 MCL	<0.2	<0.2	**0.4**	**0.4**	**<0.2**	**0.4**	<1.0	<1.0	1.9	1.9	2.1	1.9	1.2	<0.2	<0.2	<0.2	2.3	2.3	2.2	1.9	1.7	2.0
Bromodichloromethane	ug/L	6	HRL	--	<0.2	<0.2	<1.0	<0.2	<0.2	<0.2	<1.0	<1.0	<0.2	<0.2	<1.0	<0.2	<0.2	<0.2	**0.3**	<0.2	<0.2	<0.2	<0.2	<1.0	<0.2	<0.2
n-Butylbenzene	ug/L	--		--	<0.5	<0.5	<1.0	<0.5	<0.5	<0.5	<1.0	<1.0	<0.5	<0.5	<1.0	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	<0.5	<0.5
Chlorodibromoethane	ug/L	--		--	<0.5	<0.5	<1.0	<0.5	<0.5	<0.5	<1.0	<1.0	<0.5	<0.5	<1.0	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	<0.5	<0.5
Chloroethane	ug/L	--		--	<0.5	<0.5	<1.0	<0.5	<0.5	<0.5	<1.0	<1.0	<0.5	<0.5	<1.0	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	<0.5	<0.5
Chloroform	ug/L	60	HRL	--	<0.1	<0.1	<1.0	<0.1	0.1	<0.1	<1.0	<1.0	<0.1	<0.1	<1.0	<0.1	<0.1	<0.1	**0.6**	<0.1	<0.1	<0.1	<0.1	<1.0	<0.1	<0.1
1,1-Dichloroethane	ug/L	70	HRL	--	<0.2	<0.2	<1.0	<0.2	<0.2	<0.2	<1.0	<1.0	0.3	0.3	0.7	0.6	0.9	**0.6**	<0.2	<0.2	**1**	**1**	**0.8**	**0.8**	**0.7**	**1.0**
1,2-Dichloroethane	ug/L	4	HRL	5 MCL	<0.2	<0.2	<1.0	<0.2	<0.2	<0.2	<1.0	<1.0	<0.2	<0.2	0.6	0.5	0.3	<0.2	<0.2	<0.2	**1**	**1**	**0.9**	**0.9**	**0.8**	**1.0**
1,1-Dichloroethene	ug/L	6	HRL	7 MCL	<0.5	<0.2	<1.0	<0.2	<0.2	<0.2	<1.0	<1.0	<0.5	<0.5	0.8	0.7	0.4 J	<0.5	<0.5	<0.5	**1.4**	**1.3**	<0.2	**1.2**	**1.1**	**1.3**
cis-1,2-Dichloroethene	ug/L	70	HRL	70 MCL	**0.7**	**0.4**	**1.8**	**2.2**	**0.3**	**2.0**	**5.6**	<1.0	42	43	77.0	77.0	40.0	**4.2**	<0.2	<0.2	100.0	110.0	124.0	100 RC	115.0	140 RC
trans-1,2-Dichloroethene	ug/L	100	HRL	100 MCL	**0.3**	<0.1	**0.9**	**1.4**	**0.09 J**	**1.1**	**1.2**	<1.0	**2.4**	**2.5**	**5.0**	**4.1**	**1.9**	**0.2**	<0.1	<0.1	7.3	7.9	6.7	7.9	7.4	8.3
Dichlorodifluoromethane	ug/L	1000	HRL	--	<0.5	<0.1	<1.0	<0.1	<0.1	<0.1	<1.0	<1.0	<1.0	<1.0	**1.1**	**1**	**0.7 J**	<1.0	<1.0	<1.0	3	2.9	2.6	1.3	1.2	1.8 QR
Dichlorofluoromethane	ug/L	--		--	<0.5	<0.5	<1.0	<0.5	<0.5	<0.5	<1.0	<1.0	2.1	2.1	3.4	3.3	1.6	**0.3 J**	<0.5	<0.5	**5.7**	**5.7**	**4.3**	**4**	**4**	**4.6**
Ethylbenzene	ug/L	700	HRL	700 MCL	<0.2	<0.5	<1.0	<0.5	<0.5	<0.5	<1.0	<1.0	<0.5	<0.5	<1.0	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	<0.5	<0.5
Isopropylbenzene	ug/L	300	HRL*	--	<0.5	<0.5	<1.0	<0.5	<0.5	<0.5	<1.0	<1.0	<0.5	<0.5	<1.0	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	<0.5	<0.5
p-Isopropyltoluene	ug/L	--		--	<0.5	<0.5	<1.0	<0.5	<0.5	<0.5	<1.0	<1.0	<0.5	<0.5	<1.0	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	<0.5	<0.5
Methylene chloride (Dichloromethane)	ug/L	5	HRL	5 MCL	<0.5	<0.5	<1.0	<0.5	<0.5	<0.5	<1.0	<1.0	<0.5	<0.5	<1.0	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	<0.5	<0.5
Naphthalene	ug/L	300	HRL	--	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	**5.9**	**<1.0**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	**0.8 J**	<1.0	<1.0
n-Propylbenzene	ug/L	--		--	<0.5	<0.5	<1.0	<0.5	<0.5	<0.5	<1.0	<1.0	<0.5	<0.5	<1.0	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	<0.5	<0.5
Styrene	ug/L	--		100 MCL	<0.5	<0.5	<1.0	<0.5	<0.5	<0.5	<1.0	<1.0	<0.5	<0.5	<1.0	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	<0.5	<0.5
Tetrachloroethene	ug/L	5	HRL	5 MCL	<0.2	<0.2	<1.0	<0.2	<0.2	<0.2	<1.0	<1.0	<0.2	<0.2	<1.0	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	**0.5**	**0.17 J**	<0.2
Tetrahydrofuran	ug/L	--		--	<10	<10	<1.0	<10	<10	<10	<1.0	<1.0	<10	<10	<1.0	<10	<10	<10	<10	<10	<10	<10	<10	<1.0	<10	<10
Toluene	ug/L	1000	HRL	1000 MCL	<0.2	<0.5	<1.0	<0.5	<0.5	<0.5	<1.0	<1.0	<0.5	<0.5	<1.0	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	<0.5	<0.5
1,1,1-Trichloroethane	ug/L	200	HRL	200 MCL	<0.2	<0.2	<1.0	<0.2	<0.2	<0.2	<1.0	<1.0	<0.2	<0.2	<1.0	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<1.0	<0.2	<0.2
1,1,2-Trichloroethane	ug/L	3	HRL	5 MCL	<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	0.2
Trichloroethene (TCE)	ug/L	5	HRL	5 MCL	<0.1	<0.1	**0.2**	**0.2**	<0.1	**0.2**	<1.0	<1.0	1.2	1.2	2.4	1.7	0.9	**0.6**	<0.1	<0.1	6.3	6.3	5	5.4	4.7	5.1
1,2,4-Trimethylbenzene	ug/L	--		--	<0.5	<0.5	<1.0	<0.5	<0.5	<0.5	<1.0	<1.0	<0.5	<0.5	<1.0	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	<0.5	<0.5
1,3,5-Trimethylbenzene	ug/L	--		--	<0.5	<0.5	<1.0	<0.5	<0.5	<0.5	<1.0	<1.0	<0.5	<0.5	<1.0	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	<0.5	<0.5
Vinyl Chloride	ug/L	0.2	HRL	2 MCL	<0.5	<0.2	<1.0	<0.2	<0.2	<0.2	<1.0	<1.0	**4.4**	**4.8**	**7.9**	**7.0**	**3.8**	**0.7**	<0.2	<0.2	16.0	16.0	15.0	12.0	11.0	15.0
o-Xylene	ug/L	--		--	<0.2	<0.2	<1.0	<0.2	<0.2	<0.2	<1.0	<1.0	<0.2	<0.2	<1.0	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<1.0	<0.2	<0.2
p&m-Xylene	ug/L	--		--	<0.2	<0.3	<1.0	<0.3	<0.3	<0.3	<1.0	<1.0	<0.3	<0.3	<1.0	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<1.0	<0.3	<0.3
Xylene (total)	ug/L	10000	HRL	10000 MCL	<0.4	<0.5	<2.0	<0.5	<0.5	<0.5	<2.0	<2.0	<0.5	<0.5	<2.0	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2.0	<0.5	<0.5

Notes:

Bold face - detect

2.0	- framed cell - detected concentration exceeds MN drinking water criteria
2.1	- shaded cell - detected concentration exceeds Federal drinking water criteria
135	- increasing trend in concentrations
37	- decreasing trend in concentrations

J - The analyte positively identified, below the report level, estimated
QR - Did not meet QC acceptance criteria - result is estimated
RC - Report level was changed due to sample dilution
* - due to new research, the MDH no longer recommends the HRL value
HBV - Health Based Values derived by Minnesota Department of Health
HRL - Health Risk Level derived and promulgated in rule by Minnesota Department of Health
MCL - Maximum Contaminant Level (USEPA)

Table 4
Groundwater Analytical Results - Prairie du Chien / Jordan Aquifer Wells
St. Louis Park / Edina / Hopkins Groundwater VOC Contamination
STS Project 200804044

				Well Name:	W70	W119	W119	W119	W119	W119	W119	W119	W401	W401	W401	W402	W402	W402	W402	W403	W403	W403	W406
				CWI Name:	PARK THEATRE BLDG	MEADOWBRK .GOLF COURSE	MEADOWBRK .GOLF COURSE	MEADOWBRK .GOLF COURSE	MEADOWBRK .GOLF COURSE	MEADOWBRK .GOLF COURSE	MEADOWBRK .GOLF COURSE	MEADOWBRK .GOLF COURSE				WAVELAND PARK W-402	WAVELAND PARK W-402	WAVELAND PARK W-402	WAVELAND PARK W-402	W403	W403	W403	MINIKAHDA CLUB NO.1
				MN Unique Well No.:	00200539	00216009	00216009	00216009	00216009	00216009	00216009	00216009	00453805	00453805	00453805	00508116	00508116	00508116	00508116	00439751	00439751	00439751	00200534
				Aquifer:	OPCJ	OPCJ	OPCJ	OPCJ	OPCJ	OPCJ	OPCJ	OPCJ	OPCJ	OPCJ	OPCJ	OPCJ	OPCJ	OPCJ	OPCJ	OPCJ	OPCJ	OPCJ	OPCJ
				STS Sample ID:		MDW#1 280'	MDW#2 330'	MDW#3 380'	MDW#4 425'														
				MDH Sample No:	200612180	200501042	200501043	200501044	200501045		200612181	200711650	200611317	200711649	200810149		200612183	200711641	200810154	200612184	200711640	200810162	200612175
				Sample Date:	5/15/2006	01/20/05	01/20/05	01/20/05	01/20/05	5/10/2005	5/15/2006	5/15/2007	5/9/2006	5/15/2007	4/30/2008	5/10/2005	5/16/2006	5/14/2007	4/30/2008	5/16/2006	5/14/2007	5/1/2008	5/15/2006
				Notes:	ENSR Split Sample	Discrete Sample	Discrete Sample	Discrete Sample	Discrete Sample	ENSR Split Sample	ENSR Split Sample	ENSR Split Sample	ENSR Split Sample	ENSR Split Sample	ENSR Split Sample	ENSR Split Sample	ENSR Split Sample	ENSR Split Sample	ENSR Split Sample	ENSR Split Sample	ENSR Split Sample	ENSR Split Sample	ENSR Split Sample
Detected Contaminants		MN Drinking Water Standards		Federal Drinking Water Standards																			
Benzene	ug/L	5	HRL	5 MCL	<1.0	<0.2	<0.2	<0.2	<0.2	2.1	1.9	1.3	<1.0	**0.12 J**	**0.1 J**	**0.5**	<1.0	**0.2**	**0.1 J**	<1.0	<0.2	<0.2	<1.0
Bromodichloromethane	ug/L	6	HRL	--	<1.0	<0.2	<0.2	<0.2	<0.2	<1.0	<0.2	<0.2	<1.0	<0.2	<0.2	<0.2	<1.0	<0.2	<0.2	<1.0	<0.2	<0.2	<1.0
n-Butylbenzene	ug/L	--		--	<1.0	<0.5	<0.5	<0.5	<0.5	<1.0	<0.5	<0.5	<1.0	<0.5	<0.5	<0.5	<1.0	<0.5	<0.5	<1.0	<0.5	<0.5	<1.0
Chlorodibromoethane	ug/L	--		--	<1.0	<0.5	<0.5	<0.5	<0.5	<1.0	<0.5	<0.5	<1.0	<0.5	<0.5	<0.5	<1.0	<0.5	<0.5	<1.0	<0.5	<0.5	<1.0
Chloroethane	ug/L	--		--	<1.0	<0.5	<0.5	<0.5	<0.5	<1.0	<0.5	<0.5	<1.0	<0.5	<0.5	<0.5	<1.0	<0.5	<0.5	<1.0	<0.5	<0.5	<1.0
Chloroform	ug/L	60	HRL	--	<1.0	**1.8**	**1.7**	**1.7**	**1.7**	<1.0	<0.1	<0.1	<1.0	<0.1	<0.1	<0.1	<1.0	<0.1	<0.1	<1.0	<0.1	<0.1	<1.0
1,1-Dichloroethane	ug/L	70	HRL	--	<1.0	<0.2	<0.2	<0.2	<0.2	<1.0	**0.9 J**	**1.0**	6.9	7.9	9.0	<0.2	<1.0	<0.2	<0.2	<1.0	<0.2	<0.2	<1.0
1,2-Dichloroethane	ug/L	4	HRL	5 MCL	<1.0	<0.2	<0.2	<0.2	<0.2	<1.0	<0.2	**0.5**	<1.0	<0.2	<0.2	<0.2	<1.0	<0.2	<0.2	<1.0	<0.2	<0.2	<1.0
1,1-Dichloroethene	ug/L	6	HRL	7 MCL	<1.0	<0.5	<0.5	<0.5	<0.5	<1.0	**0.9 J**	**0.7**	**0.8 J**	**0.7**	**0.9**	<0.2	<1.0	<0.2	<0.2	<1.0	<0.2	<0.2	<1.0
cis-1,2-Dichloroethene	ug/L	70	HRL	70 MCL	<1.0	**1.8**	**2.3**	**3.8**	**4.7**	<1.0	**95.0**	**74.0**	**18**	**7.8**	**10**	<0.2	<1.0	<0.2	<0.2	<1.0	<0.2	<0.2	<1.0
trans-1,2-Dichloroethene	ug/L	100	HRL	100 MCL	<1.0	**0.2**	**0.2**	**0.4**	**0.4**	<1.0	**4.6**	**3.9**	**0.8 J**	**0.4**	**0.4**	<0.1	<1.0	<0.1	<0.1	<1.0	<0.1	<0.1	<1.0
Dichlorodifluoromethane	ug/L	1000	HRL	--	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	**1.3**	**0.76 J**	<1.0	<1.0	<0.1	<0.1	<1.0	<0.1	<0.1	<1.0	<0.1	<0.1	<1.0
Dichlorofluoromethane	ug/L	--		--	<1.0	<0.5	<0.5	<0.5	<0.5	<1.0	**4.0**	**3.3**	**0.6 J**	<0.5	<0.5	<0.5	<1.0	<0.5	<0.5	<1.0	<0.5	<0.5	<1.0
Ethylbenzene	ug/L	700	HRL	700 MCL	<1.0	<0.5	<0.5	<0.5	<0.5	<1.0	<0.5	<0.5	<1.0	<0.5	<0.5	<0.5	<1.0	<0.5	<0.5	<1.0	<0.5	<0.5	<1.0
Isopropylbenzene	ug/L	300	HRL*	--	<1.0	<0.5	<0.5	<0.5	<0.5	<1.0	<0.5	<0.5	<1.0	<0.5	<0.5	<0.5	<1.0	<0.5	<0.5	<1.0	<0.5	<0.5	<1.0
p-Isopropyltoluene	ug/L	--		--	<1.0	<0.5	<0.5	<0.5	<0.5	<1.0	<0.5	<0.5	<1.0	<0.5	<0.5	<0.5	<1.0	<0.5	<0.5	<1.0	**1.0**	<0.5	<1.0
Methylene chloride (Dichloromethane)	ug/L	5	HRL	5 MCL	<1.0	**1.1**	**1.1**	**1.0**	**1.1**	<1.0	<0.5	<0.5	<1.0	<0.5	<0.5	<0.5	<1.0	<0.5	<0.5	<1.0	<0.5	<0.5	<1.0
Naphthalene	ug/L	300	HRL	--	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<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	ug/L	--		--	<1.0	<0.5	<0.5	<0.5	<0.5	<1.0	<0.5	<0.5	<1.0	<0.5	<0.5	<0.5	<1.0	<0.5	<0.5	<1.0	<0.5	<0.5	<1.0
Styrene	ug/L	--		100 MCL	<1.0	<0.5	<0.5	<0.5	<0.5	<1.0	<0.5	<0.5	<1.0	<0.5	<0.5	<0.5	<1.0	<0.5	<0.5	<1.0	<0.5	<0.5	<1.0
Tetrachloroethene	ug/L	5	HRL	5 MCL	<1.0	<0.2	<0.2	<0.2	<0.2	<1.0	<0.2	<0.2	<1.0	<0.2	<0.2	<0.2	<1.0	<0.2	<0.2	<1.0	<0.2	<0.2	<1.0
Tetrahydrofuran	ug/L	--		--	<1.0	**98**	**91**	**97**	**95**	<1.0	<10	<10	<1.0	<10	<10	<10	<1.0	<10	<10	<1.0	<10	<10	<1.0
Toluene	ug/L	1000	HRL	1000 MCL	<1.0	**13**	**8.8**	**8.7**	**6.5**	**0.7**	<0.5	<0.5	<1.0	<0.5	<0.5	<0.5	<1.0	0.12 J	**0.12 J**	<1.0	**0.096 J**	<0.5	<1.0
1,1,1-Trichloroethane	ug/L	200	HRL	200 MCL	<1.0	<0.2	<0.2	<0.2	<0.2	<1.0	<0.2	<0.2	<1.0	**0.2**	**0.1 J**	<0.2	<1.0	<0.2	<0.2	<1.0	<0.2	<0.2	<1.0
1,1,2-Trichloroethane	ug/L	3	HRL	5 MCL	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<1.0	<0.2	<0.2	<1.0	<0.2	<0.2	<1.0
Trichloroethene (TCE)	ug/L	5	HRL	5 MCL	<1.0	<0.1	**0.1**	**0.2**	**0.2**	5	4	3.3	**2.7**	**2.7**	**2.4**	<0.1	<1.0	<0.1	<0.1	<1.0	<0.1	<0.1	<1.0
1,2,4-Trimethylbenzene	ug/L	--		--	<1.0	<0.5	<0.5	<0.5	<0.5	<1.0	<0.5	<0.5	<1.0	<0.5	<0.5	<0.5	<1.0	<0.5	<0.5	<1.0	<0.5	<0.5	<1.0
1,3,5-Trimethylbenzene	ug/L	--		--	<1.0	<0.5	<0.5	<0.5	<0.5	<1.0	<0.5	<0.5	<1.0	<0.5	<0.5	<0.5	<1.0	<0.5	<0.5	<1.0	<0.5	<0.5	<1.0
Vinyl Chloride	ug/L	0.2	HRL	2 MCL	<1.0	**0.2**	<0.2	**0.3**	**0.4**	13.0	10.0	6.5	**1.1**	**0.3**	**0.5**	<0.2	<1.0	<0.2	<0.2	<1.0	<0.2	<0.2	<1.0
o-Xylene	ug/L	--		--	<1.0	<0.2	<0.2	<0.2	<0.2	<1.0	<0.2	<0.2	<1.0	<0.2	<0.2	<0.2	<1.0	<0.2	<0.2	<1.0	<0.2	<0.2	<1.0
p&m-Xylene	ug/L	--		--	<1.0	<0.3	<0.3	<0.3	<0.3	<1.0	<0.3	<0.3	<1.0	<0.3	<0.3	<0.3	<1.0	<0.3	<0.3	<1.0	<0.3	<0.3	<1.0
Xylene (total)	ug/L	10000	HRL	10000 MCL	<2.0	<0.5	<0.5	<0.5	<0.5	<2.0	<0.5	<0.5	<2.0	<0.5	<0.5	<0.5	<2.0	<0.5	<0.5	<2.0	<0.5	<0.5	<2.0

Notes:

Bold face - detect

2.0 - framed cell - detected concentration exceeds MN drinking water criteria

2.1 - shaded cell - detected concentration exceeds Federal drinking water criteria

135 - increasing trend in concentrations

37 - decreasing trend in concentrations

J - The analyte positively identified, below the report level, estimated
QR - Did not meet QC acceptance criteria - result is estimated
RC - Report level was changed due to sample dilution
* - due to new research, the MDH no longer recommends the HRL value
HBV - Health Based Values derived by Minnesota Department of Health
HRL - Health Risk Level derived and promulgated in rule by Minnesota Department of Health
MCL - Maximum Contaminant Level (USEPA)

Table 5
Groundwater Analytical Results - Deep Aquifers' Wells
St. Louis Park / Edina / Hopkins Groundwater VOC Contamination
STS Project 200804044

					Well Name:	W105	SLP4T	SLP4TDUP	SLP10T	SLP11	SLP11	SLP12	SLP13	SLP13
					CWI Name:								ST. LOUIS PARK 13	ST. LOUIS PARK 13
					MN Unique Well No.:	00200979				00206439	00206439	00206456	00206424	00206424
					Aquifer:	Ironton-Galesville	GAC	GAC	GAC	Mt.Simon-Hinckley	Mt.Simon-Hinckley	Mt.Simon-Hinckley	Mt.Simon-Hinckley	Mt.Simon-Hinckley
					STS Sample ID:									
					MDH Sample No:	200811240	200712745	200712746	200712744	200612176	200712741	200712742	200612177	200712743
					Sample Date:	05/05/08	05/21/07	05/21/07	05/21/07	05/15/06	05/21/07	05/21/07	05/15/06	05/21/07
Detected Contaminants					Notes:	ENSR Split Sample	ENSR Split Sample	ENSR Split Sample	ENSR Split Sample	ENSR Split Sample	ENSR Split Sample	ENSR Split Sample	ENSR Split Sample	ENSR Split Sample
Detected Contaminants		MN Drinking Water Standard		Federal Drinking Water Standards										
Benzene	ug/L	10	HRL	5	MCL	**1.2**	<0.2	**0.15 J**	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Bromodichloromethane	ug/L	6	HRL	--		<0.2	<0.2	**0.14 J**	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
n-Butylbenzene	ug/L	--		--		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Chlorodibromoethane	ug/L	--		--		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Chloroethane	ug/L	--		--		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Chloroform	ug/L	60	HRL	--		<0.1	**0.3**	**0.8**	**0.1**	<0.1	<0.1	<0.1	<0.1	<0.1
1,1-Dichloroethane	ug/L	70	HRL	--		**0.8**	<0.2	**0.12 J**	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
1,2-Dichloroethane	ug/L	4	HRL	5	MCL	**0.2**	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
1,1-Dichloroethene	ug/L	6	HRL	7	MCL	**0.3 J**	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
cis-1,2-Dichloroethene	ug/L	70	HRL	70	MCL	**35**	**0.3**	**3.5**	**0.4**	<0.2	<0.2	<0.2	<0.2	<0.2
trans-1,2-Dichloroethene	ug/L	100	HRL	100	MCL	**1.6**	<0.1	**0.3**	**0.1**	<0.1	<0.1	<0.1	<0.1	<0.1
Dichlorodifluoromethane	ug/L	1000	HRL	--		**1.4**	**0.380 J**	**0.439 J**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dichlorofluoromethane	ug/L	--		--		<0.5	**1.7**	**1.7**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Ethylbenzene	ug/L	700	HRL	700	MCL	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Isopropylbenzene	ug/L	300	HRL*	--		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
p-Isopropyltoluene	ug/L	--		--		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Methylene chloride (Dichloron	ug/L	50	HRL	5	MCL	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Naphthalene	ug/L	300	HRL	--		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
n-Propylbenzene	ug/L	--		--		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Styrene	ug/L	--		100	MCL	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Tetrachloroethene	ug/L	7	HRL	5	MCL	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Tetrahydrofuran	ug/L	--		--		<10	<10	<10	<10	<10	<10	<10	<10	<10
Toluene	ug/L	1000	HRL	1000	MCL	<0.5	<0.5	**0.15 J**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,1,1-Trichloroethane	ug/L	600	HRL	200	MCL	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Trichloroethene (TCE)	ug/L	30	HRL	5	MCL	**0.8**	<0.1	**0.9**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,2,4-Trimethylbenzene	ug/L	--		--		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,3,5-Trimethylbenzene	ug/L	--		--		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Vinyl Chloride	ug/L	0.2	HRL	2	MCL	**6.6**	**1.4**	**1.5**	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
o-Xylene	ug/L	--		--		<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
p&m-Xylene	ug/L	--		--		<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Xylene (total)	ug/L	10000	HRL	10000	MCL	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5

Notes:

Bold face - detect

1.4 - framed cell - detected concentration exceeds MN drinking water criteria

6.6 - framed cell - detected concentration exceeds Federal drinking water criteria

* - due to new research, the MDH no longer recommends the HRL value

HBV - Health Based Values derived by Minnesota Department of Health

HRL - Health Risk Level derived and promulgated in rule by Minnesota Department of Health

MCL - Maximum Contaminant Level (USEPA)

Table 6
Groundwater Analytical Results - QA/QC Samples
St. Louis Park / Edina / Hopkins Groundwater VOC Contamination
STS Project 200804044

Detected Contaminants		MN Drinking Water Standard		Federal Drinking Water Standards														
Well Name:																		
CWI Name:																		
MN Unique Well No.:																		
Aquifer:																		
STS Sample ID:					TRIP BLNK	TRIP BLNK	TRIP BLNK	TRIP BLNK	TRIP BLNK	TRIP BLNK	TRIP BLNK	TRIP BLNK	TRIP BLNK	TRIP BLNK	FIELD BLANK	FIELD BLANK	TRIP BLANK	FIELD BLANK	FIELD BLANK
MDH Sample No:					200429907	200430257	200430527	200431475	200432023	200432998	200514583	200514040	200531630	200532483	200501040	20054044	200514052	200514582	200514039
Sample Date:					10/22/2004	10/27/2004	11/1/2004	11/10/2004	11/19/2004	12/9/2004	6/8/2005	6/2/2005	11/22/2005	12/2/2005	1/20/2005	6/3/2005	6/3/2005	6/8/2005	6/2/2005
Notes:																			
Benzene	ug/L	5	HRL	5	MCL	<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
n-Butylbenzene	ug/L	--		--		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Chlorodibromoethane	ug/L	--		--		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Chloroethane	ug/L	--		--		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Chloroform	ug/L	60	HRL	--		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	**1.0**	**0.1**	<0.1	**0.1**	**0.7**
1,1-Dichloroethane	ug/L	70	HRL	--		<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
1,2-Dichloroethane	ug/L	4	HRL	5	MCL	<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
1,1-Dichloroethene	ug/L	6	HRL	7	MCL	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
cis-1,2-Dichloroethene	ug/L	70	HRL	70	MCL	<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
trans-1,2-Dichloroethene	ug/L	100	HRL	100	MCL	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dichlorodifluoromethane	ug/L	1000	HRL	--		<1.0	<1.0	<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	ug/L	--		--		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Ethylbenzene	ug/L	700	HRL	700	MCL	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Isopropylbenzene	ug/L	300	HRL	--		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
p-Isopropyltoluene	ug/L	--		--		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Methylene chloride (Dichloromethane)	ug/L	5	HRL	5	MCL	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Naphthalene	ug/L	300	HRL	--		<1.0	<1.0	<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	ug/L	--		--		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Styrene	ug/L	--		100	MCL	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Tetrachloroethene	ug/L	5	HRL	5	MCL	<0.2	<0.2	<0.2	<0.2	<0.2	**0.9**	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Tetrahydrofuran	ug/L	--		--		<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Toluene	ug/L	1000	HRL	1000	MCL	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,1,1-Trichloroethane	ug/L	200	HRL	200	MCL	<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
Trichloroethene (TCE)	ug/L	5	HRL	5	MCL	<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
1,2,4-Trimethylbenzene	ug/L	--		--		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,3,5-Trimethylbenzene	ug/L	--		--		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Vinyl Chloride	ug/L	0.2	HRL	2	MCL	<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
o-Xylene	ug/L	--		--		<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
p&m-Xylene	ug/L	--		--		<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
Xylene (total)	ug/L	10000	HRL	10000	MCL	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5

Notes:

Bold face - detect
* - due to new research, the MDH no longer recommends the HRL value
HBV - Health Based Values derived by Minnesota Department of Health
HRL - Health Risk Level derived and promulgated in rule by Minnesota Department of Health
MCL - Maximum Contaminant Level (USEPA)

Table 6
Groundwater Analytical Results - QA/QC Samples
St. Louis Park / Edina / Hopkins Groundwater VOC Contamination
STS Project 200804044

Detected Contaminants		MN Drinking Water Standard	Federal Drinking Water Standards															
			Well Name:		P307FB	W136FB				TB1SW001								
			CWI Name:															
			MN Unique Well No.:															
			Aquifer:															
			STS Sample ID:	TRIP BLANK	FIELD BLANK	FIELD BLANK	TRIP BLANK	TRIP BLANK	TRIP BLANK	TRIP BLANK	TRIP BLANK	TRIP BLANK	TRIP BLANK	TRIP BLANK	TRIP BLANK	TRIP BLANK	TRIP BLANK	
			MDH Sample No:					200612189	200610295	200611313	200710999	200711651	200712740	200712751	200725302	200810163	200811247	
			Sample Date:	5/9/2005	4/25/2005	4/26/2005	4/26/2005	5/16/2006	5/16/2006	5/8/2006	5/7/2007	5/15/2007	5/21/2007	5/22/2007	8/21/2007	5/1/2008	5/6/2008	4/28/2008
			Notes:	ENSR Sampling	ENSR Sampling	ENSR Sampling	ENSR Sampling	ENSR Sampling	ENSR Sampling	ENSR Sampling	ENSR Sampling	ENSR Sampling	ENSR Sampling	ENSR Sampling	ENSR Sampling	ENSR Sampling	ENSR Sampling	Collected by Pace for EPA
																		For samples collected during 4/28-29/08
Benzene	ug/L	5 HRL	5 MCL	<0.2	<0.2	<0.2	<0.2	<1.0	<0.2	<1.0	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<1.00
n-Butylbenzene	ug/L	--	--	<0.5	<0.5	<0.5	<0.5	<1.0	<0.5	<1.0	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.00
Chlorodibromoethane	ug/L	--	--	<0.5	<0.5	<0.5	<0.5	<1.0	<0.5	<1.0	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.00
Chloroethane	ug/L	--	--	<0.5	<0.5	<0.5	<0.5	<1.0	<0.5	<1.0	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.00
Chloroform	ug/L	60 HRL	--	<0.1	<0.1	**0.1**	**0.1**	<1.0	<0.1	<1.0	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<5.00
1,1-Dichloroethane	ug/L	70 HRL	--	<0.2	<0.2	<0.2	<0.2	<1.0	<0.2	<1.0	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<1.00
1,2-Dichloroethane	ug/L	4 HRL	5 MCL	<0.2	<0.2	<0.2	<0.2	<1.0	<0.2	<1.0	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<1.00
1,1-Dichloroethene	ug/L	6 HRL	7 MCL	<0.2	<0.2	<0.2	<0.2	<1.0	<0.2	<1.0	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<1.00
cis-1,2-Dichloroethene	ug/L	70 HRL	70 MCL	<0.2	<0.2	<0.2	<0.2	<1.0	<0.2	<1.0	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<1.00
trans-1,2-Dichloroethene	ug/L	100 HRL	100 MCL	<0.1	<0.1	<0.1	<0.1	<1.0	<0.1	<1.0	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<1.00
Dichlorodifluoromethane	ug/L	1000 HRL	--	<1.0	<0.1	<0.1	<0.1	<1.0	<0.1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.00
Dichlorofluoromethane	ug/L	--	--	<0.5	<0.5	<0.5	<0.5	<1.0	<0.5	<1.0	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.00
Ethylbenzene	ug/L	700 HRL	700 MCL	<0.5	<0.5	<0.5	<0.5	<1.0	<0.5	<1.0	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.00
Isopropylbenzene	ug/L	300 HRL	--	<0.5	<0.5	<0.5	<0.5	<1.0	<0.5	<1.0	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.00
p-Isopropyltoluene	ug/L	--	--	<0.5	<0.5	<0.5	<0.5	<1.0	<0.5	<1.0	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.00
Methylene chloride (Dichloromethane)	ug/L	5 HRL	5 MCL	<0.5	<0.5	<0.5	<0.5	<1.0	<0.5	<1.0	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.00
Naphthalene	ug/L	300 HRL	--	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.00
n-Propylbenzene	ug/L	--	--	<0.5	<0.5	<0.5	<0.5	<1.0	<0.5	<1.0	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.00
Styrene	ug/L	--	100 MCL	<0.5	<0.5	<0.5	<0.5	<1.0	<0.5	<1.0	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.00
Tetrachloroethene	ug/L	5 HRL	5 MCL	<0.2	<0.2	<0.2	<0.2	<1.0	<0.2	<1.0	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<1.00
Tetrahydrofuran	ug/L	--	--	<10	<10	<10	<10	<1.0	<10	<1.0	<10	<10	<10	<10	<10	<10	<10	<5.00
Toluene	ug/L	1000 HRL	1000 MCL	<0.5	<0.5	<0.5	<0.5	<1.0	<0.5	<1.0	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.00
1,1,1-Trichloroethane	ug/L	200 HRL	200 MCL	<0.2	<0.2	<0.2	<0.2	<1.0	<0.2	<1.0	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<1.00
Trichloroethene (TCE)	ug/L	5 HRL	5 MCL	<0.1	<0.1	<0.1	<0.1	<1.0	<0.1	<1.0	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<1.00
1,2,4-Trimethylbenzene	ug/L	--	--	<0.5	<0.5	<0.5	<0.5	<1.0	<0.5	<1.0	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.00
1,3,5-Trimethylbenzene	ug/L	--	--	<0.5	<0.5	<0.5	<0.5	<1.0	<0.5	<1.0	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.00
Vinyl Chloride	ug/L	0.2 HRL	2 MCL	<0.2	<0.2	<0.2	<0.2	<1.0	<0.2	<1.0	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<1.00
o-Xylene	ug/L	--	--	<0.2	<0.2	<0.2	<0.2	<1.0	<0.2	<1.0	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<1.00
p&m-Xylene	ug/L	--	--	<0.3	<0.3	<0.3	<0.3	<1.0	<0.3	<1.0	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<2.00
Xylene (total)	ug/L	10000 HRL	10000 MCL	<0.5	<0.5	<0.5	<0.5	<2.0	<0.5	<2.0	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<3.00

Notes:

Bold face - detect
* - due to new research, the MDH no longer recommends the HRL value
HBV - Health Based Values derived by Minnesota Department of Health
HRL - Health Risk Level derived and promulgated in rule by Minnesota Department of Health
MCL - Maximum Contaminant Level (USEPA)

Figures

Figures

Figure 1 - St. Louis Park / Edina / Hopkins Groundwater VOC Data Review 2008, Detected Chlorinated Solvent Concentrations in Groundwater, Drift Aquifers

Figure 2 - St. Louis Park / Edina / Hopkins Groundwater VOC Data Review 2008, Detected Chlorinated Solvent Concentrations in Groundwater, Platteville Aquifer

Figure 3 - St. Louis Park / Edina / Hopkins Groundwater VOC Data Review 2008, Detected Chlorinated Solvent Concentrations in Groundwater, St. Peter Aquifer

Figure 4 - St. Louis Park / Edina / Hopkins Groundwater VOC Data Review 2008, Detected Chlorinated Solvent Concentrations in Groundwater, Prairie du Chien / Jordan Aquifer

[redacted]

LEGEND

- WELL NAME (2008 RESULTS)
  PCE/TCE/CIS-1,2-DCE/VINYL CHLORIDE CONCENTRATIONS (ug/L)
- WELL NAME (2004-2007 RESULTS)
  PCE/TCE/CIS-1,2-DCE/VINYL CHLORIDE CONCENTRATIONS (ug/L)

EXTENT OF THE CHLORINATED VOCs PLUME

UNKNOWN EXTENT OF THE CHLORINATED VOCs PLUME

N

0 600 1200

SCALE IN FEET

NOTE: BASE MAP PROVIDED BY STS GIS.

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DETECTED CHLORINATED SOLVENT CONCENTRATIONS IN GROUNDWATER
DRIFT AQUIFERS
EDINA / ST. LOUIS PARK / HOPKINS, MINNESOTA
FOR: MINNESOTA POLLUTION CONTROL AGENCY

Drawn :	RTM	12/30/2008
Checked:	PR	12/30/2008
Approved:	RLD	12/30/2008
PROJECT NUMBER	200804044	
FIGURE NUMBER	1	

C:\PROJECTS\200804044\G200804044-CHEM-01.dwg, FIG. 4-1, 1/6/2009 5:17:08 PM, STS_PLOTSTAMP, STS_PLOTSTAMP

LEGEND

- WELL NAME (2008 RESULTS)
  PCE/TCE/CIS-1,2-DCE/VINYL CHLORIDE CONCENTRATIONS (ug/L)
- WELL NAME (2004-2007 RESULTS)
  PCE/TCE/CIS-1,2-DCE/VINYL CHLORIDE CONCENTRATIONS (ug/L)

EXTENT OF THE CHLORINATED VOCs PLUME

?

UNKNOWN EXTENT OF THE CHLORINATED VOCs PLUME

N

0 600 1200

SCALE IN FEET

NOTE: BASE MAP PROVIDED BY STS GIS.

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DETECTED CHLORINATED SOLVENT CONCENTRATIONS IN GROUNDWATER
PLATTEVILLE AQUIFER
EDINA / ST. LOUIS PARK / HOPKINS, MINNESOTA
FOR: MINNESOTA POLLUTION CONTROL AGENCY

Drawn:	RTM	12/30/2008
Checked:	PR	12/30/2008
Approved:	RLD	12/30/2008
PROJECT NUMBER	200804044	
FIGURE NUMBER	2	

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C:\PROJECTS\200804044\G200804044-CHEM-01.dwg, FIG.4-3, 1/6/2009 5:18:32 PM, STS_PLOTSTAMP, STS_PLOTSTAMP

LEGEND

- WELL NAME (2008 RESULTS)
  PCE/TCE/CIS-1,2-DCE/VINYL CHLORIDE CONCENTRATIONS (ug/L)
- WELL NAME (2004-2007 RESULTS)
  PCE/TCE/CIS-1,2-DCE/VINYL CHLORIDE CONCENTRATIONS (ug/L)

EXTENT OF THE CHLORINATED VOCs PLUME

UNKNOWN EXTENT OF THE CHLORINATED VOCs PLUME

N

0 600 1200

SCALE IN FEET

NOTE: BASE MAP PROVIDED BY STS GIS.

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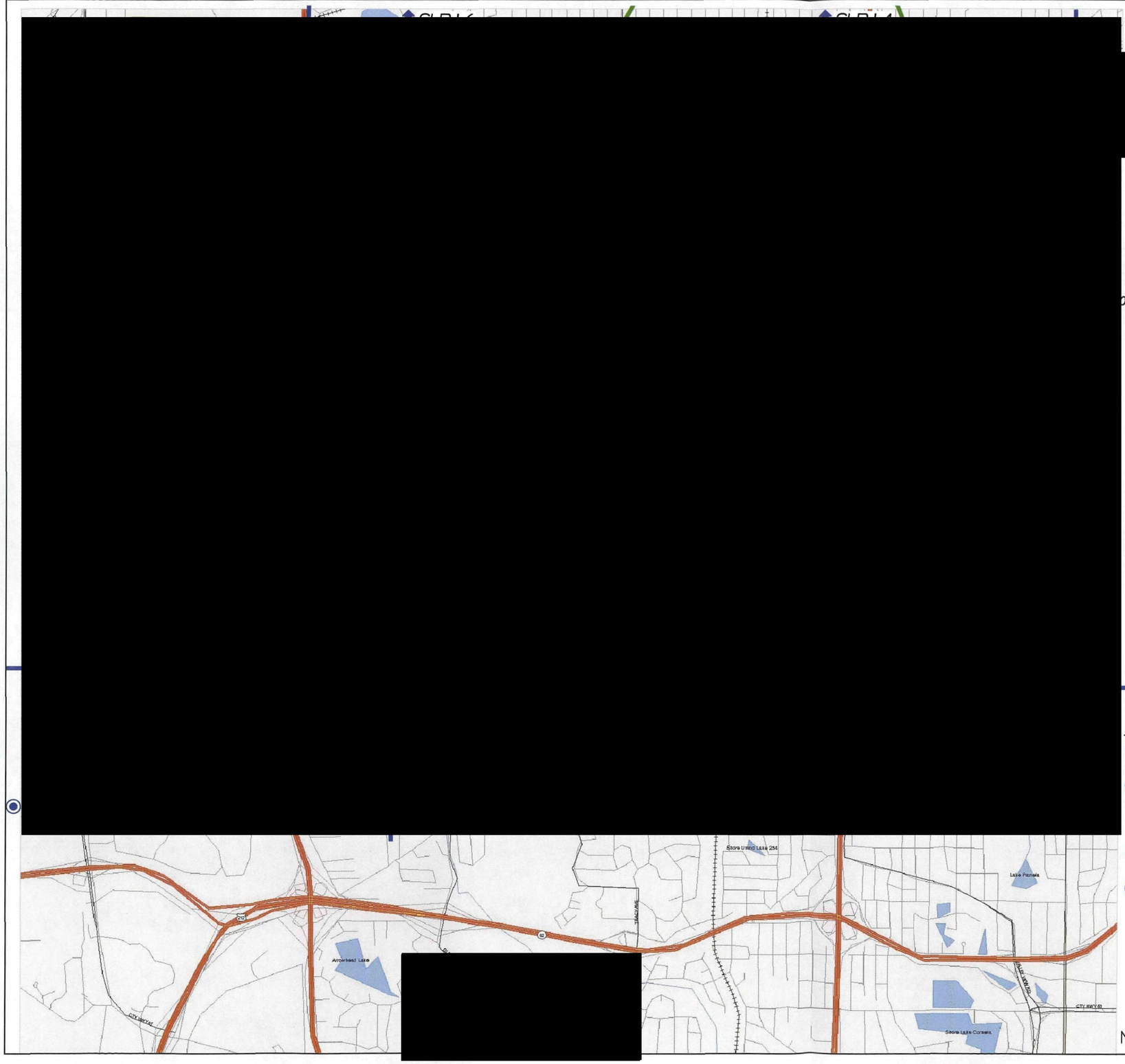
DETECTED CHLORINATED SOLVENT CONCENTRATIONS IN GROUNDWATER
ST. PETER AQUIFER
EDINA / ST. LOUIS PARK / HOPKINS, MINNESOTA
FOR: MINNESOTA POLLUTION CONTROL AGENCY

Drawn:	RTM	12/30/2008
Checked:	PR	12/30/2008
Approved:	RLD	12/30/2008
PROJECT NUMBER	200804044	
FIGURE NUMBER	3	



N

0 1250 2500

SCALE IN FEET

LEGEND

WELL NAME (2008 RESULTS)
PCE/TCE/1,2-DCE/VINYL CHLORIDE CONCENTRATIONS (ug/L)

WELL NAME (2004-2007 RESULTS)
PCE/TCE/1,2-DCE/VINYL CHLORIDE CONCENTRATIONS (ug/L)

EXTENT OF THE CHLORINATED VOCs PLUME

? UNKNOWN EXTENT OF THE CHLORINATED VOCs PLUME

W70 SEALED WELL

NOTE: BASE MAP PROVIDED BY STS GIS.

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Maple Grove, MN 55369
(763)-315-6301
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ST. LOUIS PARK/ EDINA/ HOPKINS/ GROUNDWATER VOC DATA REVIEW 2008
DETECTED CHLORINATED SOLVENT CONCENTRATIONS IN GROUNDWATER
PRAIRIE du CHIEN / JORDAN AQUIFER
EDINA / ST. LOUIS PARK / HOPKINS, MINNESOTA
FOR: MINNESOTA POLLUTION CONTROL AGENCY

Drawn :	RTM	12/30/2008
Checked:	PR	12/30/2008
Approved:	RLD	12/30/2008
PROJECT NUMBER	200804044	
FIGURE NUMBER	4	

C:\PROJECTS\200804044\G200804044-CHEM-01.dwg, FIG 4-4, 1/6/2009 5:29:41 PM, STS_PLOTSTAMP, STS_PLOTSTAMP

Appendix

Appendix

Appendix A	Chains of Custody and MDH Laboratory Analysis Data for 2008 Chains of Custody and Lockheed Martin, Inc. Analytical Report issued in July 2008
Appendix B	2007 Sampling Schedule (Reilly Tar Site Related Monitoring Well Network)

Appendix A

Chains of Custody and MDH Laboratory Analysis Data for 2008
Chains of Custody and Lockheed Martin, Inc. Analytical Report issued in July 2008

0810155thru 0810163

MDH Chain of Custody

Public Health Laboratory

Minnesota Department of Health
Chemical Laboratory
717Delaware Street S.E.
Minneapolis, Minnesota 55440

Client/Agency MPCA

Project Name Reilly Tar VOC

Site ID

Program Code (2 letters) PL

Contact Name N. le Fellows

Contact Phone # 651-296-7290

MDH 1000 № 21777

Report to MPCA

MAY 2 '08 PM 1:

Potential Hazard: Yes/No/Unknown (Circle One)

If Yes: Chemical/Biological/Other_____(Circle One)

Standard/Civil/Criminal Chain of Custody (Circle One)

Sampled By (Print) Andrew J. Tarara

Affiliation ENSR Corporation

Sampler Signature A. J. Tarara

Phone 952 9240117

...s if Needed

ORIGINAL

...AMPLER COMMENTS

Item #	Field ID	Sample Source/Point	Collection Date MM/DD/YYYY	Time (24 Hour Clock)	MDH Sample Number (Lab Use Only)	Matrix	General (None)	Nutrient (H2SO4)	Metals (HNO3)	VOC	Semivol	DRO	GRO
1		SLP10T-050108	5/1/08	950	10159	GW				3			
2		W48-050108	↓	~~1110~~ 1150 AT.	160	↓				↓			
3		W29-050108	↓	1310	161	↓				↓			
4		W403-050108	↓	1615	162	↓				↓			
5		Trip Blank	5/1/08	—	163	—				2			
6													
7													
8													
9													
10													

SAMPLER COMMENTS:

RECEIVING COMMENTS:

LAB TEMP 10/11° C

SEAL INTACT: YES / NO

ITEM NO.	RELINQUISHED BY/AFFIALIATION		TIME	DATE	ACCEPTED BY/AFFIALIATION	TIME	DATE
	A J Tarara	ENSR	11:10	5/2/08			
	N. le Fellows	MPCA	11:45	5/2/08	Sarah Tarquell	11:44	5-2-08

White Lab Copy Yellow Client Copy Pink Submitter Copy

MINNESOTA MDH DEPARTMENT of HEALTH

Protecting, maintaining and improving the health of all Minnesotans

Report Date: 19-MAY-2008

Client Name: MPCA-GW & SW
Project Code: PL
Project Name: MPCA-32 METRO MERLA-SF

Samples: 200810159 — 200810163

Report To: Bill Scruton
MPCA-GW & SW
520 Lafayette Rd.
St. Paul, MN 55155

The MDH Public Health Laboratory performs chemical, bacteriological and radiological analyses of environmental samples including water, waste water, sediment, air, soil and hazardous material. The laboratory provides testing services in accordance with standard operating procedures referencing approved methodology and defined in Standard Methods for the Examination of Water and Wastewater, Test Methods for Evaluating Solid Waster, Physical/Chemical Methods:EPA SW-846, and 40 Code of Federal Regulation (CFR) parts 136, 141, and 261. In cases where analytes of interest do not have corresponding EPA approved methodology, the MDH Public Health Laboratory uses in-house methods that have undergone rigorous validation and documentation.

The results within this report are in compliance with the terms and conditions stated in the standard operation procedures, reference methodologies, and quality assurance project plan; unless otherwise narrated in the attached report.

Release of the data contained in this report has been authorized by laboratory management and is verified with the following signature affirmation. Thank you for using the MDH Public Health Laboratory. If you have any questions regarding this report, please call us at 651.201.5300.

Sincerely,

Suzanne Skorich
Environmental Laboratory, Quality Assurance Officer

Minnesota Department Of Health - Environmental Laboratory

Final Report - Client Copy - Report Of Analytical Results

Program: PL
Program Name: MPCA-32 METRO MERLA-SF
Request Number: 325815

Date Received: 02-MAY-2008
Date Generated: 19-MAY-2008
Request Page: 1 of 30

Samples: 200810159 - 200810163

Date Reported: 19-MAY-2008

Site ID	Project Name	Sampled By
-	REILLY TAR VOC	ANDREW J TARARA

Sample No: 200810159

Receiving Comments: -

Coll Date	Coll Time	Field No	Sampling Point
01-MAY-2008	0950	-	SLP10T-050108

Trip Blank	Field Blank
200810163	-

********** SAMPLE RESULTS **********

Unit: ORGANIC CHEMISTRY Reviewed By PDS on 19-MAY-08

Note: Positive Organic Results are indicated by BOLD.

	Result Codes	Result	Rept Level	Units	Analysis Date
468 VOCs in Water by GC/MS -EPA 524.2					
4-Bromofluorobenzene (surrogate)		103	70-130	% Recovery	07-MAY-08 11:37
Dibromofluoromethane (surrogate)		105	70-130	% Recovery	07-MAY-08 11:37
1,2-Dichlorobenzene-D4 (surrogate)		103	70-130	% Recovery	07-MAY-08 11:37
1,2-Dichloroethane-D4 (surrogate)		105	70-130	% Recovery	07-MAY-08 11:37
Toluene-D8 (surrogate)		101	70-130	% Recovery	07-MAY-08 11:37
Acetone	<	20	20	ug/L	07-MAY-08 11:37
Allyl chloride	<	0.5	0.5	ug/L	07-MAY-08 11:37
Benzene	<	0.2	0.2	ug/L	07-MAY-08 11:37
Bromobenzene	<	0.2	0.2	ug/L	07-MAY-08 11:37
Bromochloromethane	<	0.5	0.5	ug/L	07-MAY-08 11:37
Bromodichloromethane	<	0.2	0.2	ug/L	07-MAY-08 11:37
Bromoform	QR <	0.5	0.5	ug/L	07-MAY-08 11:37
Bromomethane	QR <	1.0	1.0	ug/L	07-MAY-08 11:37
n-Butylbenzene	<	0.5	0.5	ug/L	07-MAY-08 11:37
sec-Butylbenzene	<	0.5	0.5	ug/L	07-MAY-08 11:37
tert-Butylbenzene	<	0.5	0.5	ug/L	07-MAY-08 11:37
Carbon tetrachloride	<	0.2	0.2	ug/L	07-MAY-08 11:37
Chlorobenzene	<	0.2	0.2	ug/L	07-MAY-08 11:37
Chlorodibromomethane	<	0.5	0.5	ug/L	07-MAY-08 11:37
Chloroethane	<	0.5	0.5	ug/L	07-MAY-08 11:37
Chloroform		**0.1**	**0.1**	**ug/L**	**07-MAY-08 11:37**
Chloromethane	<	1.0	1.0	ug/L	07-MAY-08 11:37
2-Chlorotoluene	<	0.5	0.5	ug/L	07-MAY-08 11:37
4-Chlorotoluene	<	0.5	0.5	ug/L	07-MAY-08 11:37
1,2-Dibromo-3-chloropropane (DBCP)	<	2.0	2.0	ug/L	07-MAY-08 11:37
1,2-Dibromoethane (EDB)	<	0.5	0.5	ug/L	07-MAY-08 11:37

Minnesota Department Of Health - Environmental Laboratory

Final Report - Client Copy - Report Of Analytical Results

Program: PL
Program Name: MPCA-32 METRO MERLA-SF
Request Number: 325815

Date Received: 02-MAY-2008
Date Generated: 19-MAY-2008
Request Page: 2 of 30

Samples: 200810159 - 200810163

Date Reported: 19-MAY-2008

Site ID	Project Name	Sampled By
-	REILLY TAR VOC	ANDREW J TARARA

Sample No: 200810159

Receiving Comments: -

Coll Date	Coll Time	Field No	Sampling Point
01-MAY-2008	0950	-	SLP10T-050108

Trip Blank	Field Blank
200810163	-

********** SAMPLE RESULTS **********

Unit: ORGANIC CHEMISTRY Reviewed By PDS on 19-MAY-08

Note: Positive Organic Results are indicated by BOLD.

	Result Codes	Result	Rept Level	Units	Analysis Date
468 VOCs in Water by GC/MS -EPA 524.2					
Dibromomethane	<	0.5	0.5	ug/L	07-MAY-08 11
1,2-Dichlorobenzene	<	0.2	0.2	ug/L	07-MAY-08 11
1,3-Dichlorobenzene	<	0.2	0.2	ug/L	07-MAY-08 11
1,4-Dichlorobenzene	<	0.2	0.2	ug/L	07-MAY-08 11
Dichlorodifluoromethane	QR <	1.0	1.0	ug/L	07-MAY-08 11
1,1-Dichloroethane	<	0.2	0.2	ug/L	07-MAY-08 11
1,2-Dichloroethane	<	0.2	0.2	ug/L	07-MAY-08 11
1,1-Dichloroethene	<	0.5	0.5	ug/L	07-MAY-08 11
cis-1,2-Dichloroethene		**0.3**	**0.2**	**ug/L**	**07-MAY-08 11**
trans-1,2-Dichloroethene	J	**0.09**	**0.1**	**ug/L**	**07-MAY-08 11**
Dichlorofluoromethane	<	0.5	0.5	ug/L	07-MAY-08 11
1,2-Dichloropropane	<	0.2	0.2	ug/L	07-MAY-08 11
1,3-Dichloropropane	<	0.2	0.2	ug/L	07-MAY-08 11
2,2-Dichloropropane	QR <	0.5	0.5	ug/L	07-MAY-08 11
1,1-Dichloropropene	<	0.2	0.2	ug/L	07-MAY-08 11
cis-1,3-Dichloropropene	<	0.2	0.2	ug/L	07-MAY-08 11
trans-1,3-Dichloropropene	<	0.2	0.2	ug/L	07-MAY-08 11
Ethylbenzene	<	0.5	0.5	ug/L	07-MAY-08 11
Ethyl ether	<	2.0	2.0	ug/L	07-MAY-08 11
Hexachlorobutadiene	<	1.0	1.0	ug/L	07-MAY-08 11
Isopropylbenzene	<	0.5	0.5	ug/L	07-MAY-08 11
p-Isopropyltoluene	<	0.5	0.5	ug/L	07-MAY-08 11
Methylene chloride	<	0.5	0.5	ug/L	07-MAY-08 11
Methyl ethyl ketone (MEK)	<	10	10	ug/L	07-MAY-08 11
Methyl isobutyl ketone (MIBK)	<	5.0	5.0	ug/L	07-MAY-08 11
Methyl tertiary butyl ether (MTBE)	<	2.0	2.0	ug/L	07-MAY-08 11

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Final Report - Client Copy - Report Of Analytical Results

Program: PL
Program Name: MPCA-32 METRO MERLA-SF
Request Number: 325815

Date Received: 02-MAY-2008
Date Generated: 19-MAY-2008
Request Page: 3 of 30

Samples: 200810159 - 200810163

Date Reported: 19-MAY-2008

Site ID	Project Name	Sampled By
-	REILLY TAR VOC	ANDREW J TARARA

Sample No: 200810159

Receiving Comments: -

Coll Date	Coll Time	Field No	Sampling Point
01-MAY-2008	0950	-	SLP10T-050108

Trip Blank	Field Blank
200810163	-

********** SAMPLE RESULTS **********

Unit: ORGANIC CHEMISTRY Reviewed By PDS on 19-MAY-08

Note: Positive Organic Results are indicated by BOLD.

	Result Codes		Result	Rept Level	Units	Analysis Date
468 VOCs in Water by GC/MS -EPA 524.2						
Naphthalene		<	1.0	1.0	ug/L	07-MAY-08 11:3
n-Propylbenzene		<	0.5	0.5	ug/L	07-MAY-08 11:3
Styrene		<	0.5	0.5	ug/L	07-MAY-08 11:3
1,1,1,2-Tetrachloroethane		<	0.2	0.2	ug/L	07-MAY-08 11:3
1,1,2,2-Tetrachloroethane		<	0.2	0.2	ug/L	07-MAY-08 11:3
Tetrachloroethene		<	0.2	0.2	ug/L	07-MAY-08 11:3
Tetrahydrofuran (THF)	QO	<	10	10	ug/L	07-MAY-08 11:3
Toluene		<	0.5	0.5	ug/L	07-MAY-08 11:3
1,2,3-Trichlorobenzene		<	1.0	1.0	ug/L	07-MAY-08 11:3
1,2,4-Trichlorobenzene		<	0.5	0.5	ug/L	07-MAY-08 11:3
1,1,1-Trichloroethane		<	0.2	0.2	ug/L	07-MAY-08 11:3
1,1,2-Trichloroethane		<	0.2	0.2	ug/L	07-MAY-08 11:3
Trichloroethene (TCE)		<	0.1	0.1	ug/L	07-MAY-08 11:3
Trichlorofluoromethane		<	0.5	0.5	ug/L	07-MAY-08 11:3
1,2,3-Trichloropropane		<	0.5	0.5	ug/L	07-MAY-08 11:3
1,1,2-Trichlorotrifluoroethane		<	0.2	0.2	ug/L	07-MAY-08 11:3
1,2,4-Trimethylbenzene		<	0.5	0.5	ug/L	07-MAY-08 11:3
1,3,5-Trimethylbenzene		<	0.5	0.5	ug/L	07-MAY-08 11:3
Vinyl chloride		<	0.2	0.2	ug/L	07-MAY-08 11:3
o-Xylene		<	0.2	0.2	ug/L	07-MAY-08 11:3
p&m-Xylene		<	0.3	0.3	ug/L	07-MAY-08 11:3

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Final Report - Client Copy - Report Of Analytical Results

Program: PL
Program Name: MPCA-32 METRO MERLA-SF
Request Number: 325815

Date Received: 02-MAY-2008
Date Generated: 19-MAY-2008
Request Page: 4 of 30

Samples: 200810159 - 200810163

Date Reported: 19-MAY-2008

Site ID	Project Name	Sampled By
-	REILLY TAR VOC	ANDREW J TARARA

Sample No: 200810160

Receiving Comments: -

Coll Date	Coll Time	Field No	Sampling Point
01-MAY-2008	1150	-	W48-050108

Trip Blank	Field Blank
200810163	-

********** SAMPLE RESULTS **********

Unit: ORGANIC CHEMISTRY Reviewed By PDS on 19-MAY-08

Note: Positive Organic Results are indicated by BOLD.

	Result Codes	Result	Rept Level	Units	Analysis Date
468 VOCs in Water by GC/MS -EPA 524.2					
4-Bromofluorobenzene (surrogate)		101	70-130	% Recovery	07-MAY-08 12
Dibromofluoromethane (surrogate)		104	70-130	% Recovery	07-MAY-08 12
1,2-Dichlorobenzene-D4 (surrogate)		102	70-130	% Recovery	07-MAY-08 12
1,2-Dichloroethane-D4 (surrogate)		103	70-130	% Recovery	07-MAY-08 12
Toluene-D8 (surrogate)		103	70-130	% Recovery	07-MAY-08 12
Acetone	<	20	20	ug/L	07-MAY-08 12
Allyl chloride	<	0.5	0.5	ug/L	07-MAY-08 12
Benzene		**2.0**	**0.2**	**ug/L**	**07-MAY-08 12**
Bromobenzene	<	0.2	0.2	ug/L	07-MAY-08 12
Bromochloromethane	<	0.5	0.5	ug/L	07-MAY-08 12
Bromodichloromethane	<	0.2	0.2	ug/L	07-MAY-08 12
Bromoform	QR <	0.5	0.5	ug/L	07-MAY-08 12
Bromomethane	QR <	1.0	1.0	ug/L	07-MAY-08 12
n-Butylbenzene	<	0.5	0.5	ug/L	07-MAY-08 12
sec-Butylbenzene	<	0.5	0.5	ug/L	07-MAY-08 12
tert-Butylbenzene	<	0.5	0.5	ug/L	07-MAY-08 12
Carbon tetrachloride	<	0.2	0.2	ug/L	07-MAY-08 12
Chlorobenzene	<	0.2	0.2	ug/L	07-MAY-08 12
Chlorodibromomethane	<	0.5	0.5	ug/L	07-MAY-08 12
Chloroethane	<	0.5	0.5	ug/L	07-MAY-08 12
Chloroform	<	0.1	0.1	ug/L	07-MAY-08 12
Chloromethane	<	1.0	1.0	ug/L	07-MAY-08 12
2-Chlorotoluene	<	0.5	0.5	ug/L	07-MAY-08 12
4-Chlorotoluene	<	0.5	0.5	ug/L	07-MAY-08 12
1,2-Dibromo-3-chloropropane (DBCP)	<	2.0	2.0	ug/L	07-MAY-08 12
1,2-Dibromoethane (EDB)	<	0.5	0.5	ug/L	07-MAY-08 12

Minnesota Department Of Health - Environmental Laboratory

Final Report - Client Copy - Report Of Analytical Results

Program: PL
Program Name: MPCA-32 METRO MERLA-SF
Request Number: 325815

Date Received: 02-MAY-2008
Date Generated: 19-MAY-2008

Samples: 200810159 - 200810163

Date Reported: 19-MAY-2008

Site ID	Project Name	Sampled By
-	REILLY TAR VOC	ANDREW J TARARA

Sample No: 200810160

Receiving Comments: -

Coll Date	Coll Time	Field No	Sampling Point
01-MAY-2008	1150	-	W48-050108

Trip Blank	Field Blank
200810163	-

********** SAMPLE RESULTS **********

Unit: ORGANIC CHEMISTRY Reviewed By PDS on 19-MAY-08

Note: Positive Organic Results are indicated by BOLD.

	Result Codes	Result	Rept Level	Units	Analysis Date
468 VOCs in Water by GC/MS -EPA 524.2					
Dibromomethane	<	0.5	0.5	ug/L	07-MAY-08 12:05
1,2-Dichlorobenzene	<	0.2	0.2	ug/L	07-MAY-08 12:05
1,3-Dichlorobenzene	<	0.2	0.2	ug/L	07-MAY-08 12:05
1,4-Dichlorobenzene	<	0.2	0.2	ug/L	07-MAY-08 12:05
Dichlorodifluoromethane	QR	**1.8**	**1.0**	**ug/L**	**07-MAY-08 12:05**
1,1-Dichloroethane		**1.0**	**0.2**	**ug/L**	**07-MAY-08 12:05**
1,2-Dichloroethane		**1.0**	**0.2**	**ug/L**	**07-MAY-08 12:05**
1,1-Dichloroethene		**1.3**	**0.5**	**ug/L**	**07-MAY-08 12:05**
cis-1,2-Dichloroethene	RC	**140**	**2.0**	**ug/L**	**13-MAY-08**
trans-1,2-Dichloroethene		**8.3**	**0.1**	**ug/L**	**07-MAY-08 12:05**
Dichlorofluoromethane		**4.6**	**0.5**	**ug/L**	**07-MAY-08 12:05**
1,2-Dichloropropane	<	0.2	0.2	ug/L	07-MAY-08 12:05
1,3-Dichloropropane	<	0.2	0.2	ug/L	07-MAY-08 12:05
2,2-Dichloropropane	QR <	0.5	0.5	ug/L	07-MAY-08 12:05
1,1-Dichloropropene	<	0.2	0.2	ug/L	07-MAY-08 12:05
cis-1,3-Dichloropropene	<	0.2	0.2	ug/L	07-MAY-08 12:05
trans-1,3-Dichloropropene	<	0.2	0.2	ug/L	07-MAY-08 12:05
Ethylbenzene	<	0.5	0.5	ug/L	07-MAY-08 12:05
Ethyl ether	<	2.0	2.0	ug/L	07-MAY-08 12:05
Hexachlorobutadiene	<	1.0	1.0	ug/L	07-MAY-08 12:05
Isopropylbenzene	<	0.5	0.5	ug/L	07-MAY-08 12:05
p-Isopropyltoluene	<	0.5	0.5	ug/L	07-MAY-08 12:05
Methylene chloride	<	0.5	0.5	ug/L	07-MAY-08 12:05
Methyl ethyl ketone (MEK)	<	10	10	ug/L	07-MAY-08 12:05
Methyl isobutyl ketone (MIBK)	<	5.0	5.0	ug/L	07-MAY-08 12:05
Methyl tertiary butyl ether (MTBE)	<	2.0	2.0	ug/L	07-MAY-08 12:05

Minnesota Department Of Health - Environmental Laboratory

Final Report - Client Copy - Report Of Analytical Results

Program: PL
Program Name: MPCA-32 METRO MERLA-SF
Request Number: 325815

Date Received: 02-MAY-2008
Date Generated: 19-MAY-2008
Request Page: 6 of 30

Samples: 200810159 - 200810163

Date Reported: 19-MAY-2008

Site ID	Project Name	Sampled By
-	REILLY TAR VOC	ANDREW J TARARA

Sample No: 200810160

Receiving Comments: -

Coll Date	Coll Time	Field No	Sampling Point
01-MAY-2008	1150	-	W48-050108

Trip Blank	Field Blank
200810163	-

********** SAMPLE RESULTS **********

Unit: ORGANIC CHEMISTRY Reviewed By PDS on 19-MAY-08

Note: Positive Organic Results are indicated by BOLD.

	Result Codes	Result	Rept Level	Units	Analysis Date
468 VOCs in Water by GC/MS -EPA 524.2					
Naphthalene	<	1.0	1.0	ug/L	07-MAY-08
n-Propylbenzene	<	0.5	0.5	ug/L	07-MAY-08
Styrene	<	0.5	0.5	ug/L	07-MAY-08
1,1,1,2-Tetrachloroethane	<	0.2	0.2	ug/L	07-MAY-08
1,1,2,2-Tetrachloroethane	<	0.2	0.2	ug/L	07-MAY-08
Tetrachloroethene	<	0.2	0.2	ug/L	07-MAY-08
Tetrahydrofuran (THF)	QO <	10	10	ug/L	07-MAY-08
Toluene	<	0.5	0.5	ug/L	07-MAY-08
1,2,3-Trichlorobenzene	<	1.0	1.0	ug/L	07-MAY-08
1,2,4-Trichlorobenzene	<	0.5	0.5	ug/L	07-MAY-08
1,1,1-Trichloroethane	<	0.2	0.2	ug/L	07-MAY-08
1,1,2-Trichloroethane		**0.2**	**0.2**	**ug/L**	**07-MAY-08**
Trichloroethene (TCE)		**5.1**	**0.1**	**ug/L**	**07-MAY-08**
Trichlorofluoromethane	<	0.5	0.5	ug/L	07-MAY-08
1,2,3-Trichloropropane	<	0.5	0.5	ug/L	07-MAY-08
1,1,2-Trichlorotrifluoroethane	<	0.2	0.2	ug/L	07-MAY-08
1,2,4-Trimethylbenzene	<	0.5	0.5	ug/L	07-MAY-08
1,3,5-Trimethylbenzene	<	0.5	0.5	ug/L	07-MAY-08
Vinyl chloride		**15**	**0.2**	**ug/L**	**07-MAY-08**
o-Xylene	<	0.2	0.2	ug/L	07-MAY-08
p&m-Xylene	<	0.3	0.3	ug/L	07-MAY-08

Minnesota Department Of Health - Environmental Laboratory

Final Report - Client Copy - Report Of Analytical Results

Program: PL
Program Name: MPCA-32 METRO MERLA-SF
Request Number: 325815

Date Received: 02-MAY-2008
Date Generated: 19-MAY-2008
Request Page: 7 of 30

Samples: 200810159 - 200810163

Date Reported: 19-MAY-2008

Site ID	Project Name	Sampled By
-	REILLY TAR VOC	ANDREW J TARARA

Sample No: 200810161

Receiving Comments: -

Coll Date	Coll Time	Field No	Sampling Point
01-MAY-2008	1310	-	W29-050108

Trip Blank	Field Blank
200810163	-

********** SAMPLE RESULTS **********

Unit: ORGANIC CHEMISTRY Reviewed By PDS on 19-MAY-08

Note: Positive Organic Results are indicated by BOLD.

	Result Codes	Result	Rept Level	Units	Analysis Date
468 VOCs in Water by GC/MS -EPA 524.2					
4-Bromofluorobenzene (surrogate)		102	70-130	% Recovery	13-MAY-08 18:18
Dibromofluoromethane (surrogate)		102	70-130	% Recovery	13-MAY-08 18:18
1,2-Dichlorobenzene-D4 (surrogate)		105	70-130	% Recovery	13-MAY-08 18:18
1,2-Dichloroethane-D4 (surrogate)		107	70-130	% Recovery	13-MAY-08 18:18
Toluene-D8 (surrogate)		109	70-130	% Recovery	13-MAY-08 18:18
Acetone	QR <	20	20	ug/L	13-MAY-08 18:18
Allyl chloride	<	0.5	0.5	ug/L	13-MAY-08 18:18
Benzene	<	0.2	0.2	ug/L	13-MAY-08 18:18
Bromobenzene	<	0.2	0.2	ug/L	13-MAY-08 18:18
Bromochloromethane	<	0.5	0.5	ug/L	13-MAY-08 18:18
Bromodichloromethane	<	0.2	0.2	ug/L	13-MAY-08 18:18
Bromoform	<	0.5	0.5	ug/L	13-MAY-08 18:18
Bromomethane	<	1.0	1.0	ug/L	13-MAY-08 18:18
n-Butylbenzene	<	0.5	0.5	ug/L	13-MAY-08 18:18
sec-Butylbenzene	<	0.5	0.5	ug/L	13-MAY-08 18:18
tert-Butylbenzene	<	0.5	0.5	ug/L	13-MAY-08 18:18
Carbon tetrachloride	<	0.2	0.2	ug/L	13-MAY-08 18:18
Chlorobenzene	<	0.2	0.2	ug/L	13-MAY-08 18:18
Chlorodibromomethane	<	0.5	0.5	ug/L	13-MAY-08 18:18
Chloroethane	<	0.5	0.5	ug/L	13-MAY-08 18:18
Chloroform	<	0.1	0.1	ug/L	13-MAY-08 18:18
Chloromethane	<	1.0	1.0	ug/L	13-MAY-08 18:18
2-Chlorotoluene	<	0.5	0.5	ug/L	13-MAY-08 18:18
4-Chlorotoluene	<	0.5	0.5	ug/L	13-MAY-08 18:18
1,2-Dibromo-3-chloropropane (DBCP)	<	2.0	2.0	ug/L	13-MAY-08 18:18
1,2-Dibromoethane (EDB)	<	0.5	0.5	ug/L	13-MAY-08 18:18

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Program: PL
Program Name: MPCA-32 METRO MERLA-SF
Request Number: 325815

Date Received: 02-MAY-2008
Date Generated: 19-MAY-2008
Request Page: 8 of 30

Samples: 200810159 - 200810163

Date Reported: 19-MAY-2008

Site ID	Project Name	Sampled By
-	REILLY TAR VOC	ANDREW J TARARA

Sample No: 200810161

Receiving Comments: -

Coll Date	Coll Time	Field No	Sampling Point
01-MAY-2008	1310	-	W29-050108

Trip Blank	Field Blank
200810163	-

********** SAMPLE RESULTS **********

Unit: ORGANIC CHEMISTRY Reviewed By PDS on 19-MAY-08

Note: Positive Organic Results are indicated by BOLD.

	Result Codes		Result	Rept Level	Units	Analysis Date
468 VOCs in Water by GC/MS -EPA 524.2						
Dibromomethane		<	0.5	0.5	ug/L	13-MAY-08 18 8
1,2-Dichlorobenzene		<	0.2	0.2	ug/L	13-MAY-08 18 8
1,3-Dichlorobenzene		<	0.2	0.2	ug/L	13-MAY-08 18:18
1,4-Dichlorobenzene		<	0.2	0.2	ug/L	13-MAY-08 18 8
Dichlorodifluoromethane		<	1.0	1.0	ug/L	13-MAY-08 18 8
1,1-Dichloroethane			**0.6**	**0.2**	**ug/L**	**13-MAY-08 18 8**
1,2-Dichloroethane		<	0.2	0.2	ug/L	13-MAY-08 18 8
1,1-Dichloroethene		<	0.5	0.5	ug/L	13-MAY-08 18 8
cis-1,2-Dichloroethene			**4.2**	**0.2**	**ug/L**	**13-MAY-08 18 8**
trans-1,2-Dichloroethene			**0.2**	**0.1**	**ug/L**	**13-MAY-08 18 8**
Dichlorofluoromethane	J		**0.3**	**0.5**	**ug/L**	**13-MAY-08 18 8**
1,2-Dichloropropane		<	0.2	0.2	ug/L	13-MAY-08 18 8
1,3-Dichloropropane		<	0.2	0.2	ug/L	13-MAY-08 18:18
2,2-Dichloropropane		<	0.5	0.5	ug/L	13-MAY-08 18 3
1,1-Dichloropropene		<	0.2	0.2	ug/L	13-MAY-08 18 8
cis-1,3-Dichloropropene		<	0.2	0.2	ug/L	13-MAY-08 18 8
trans-1,3-Dichloropropene	QR	<	0.2	0.2	ug/L	13-MAY-08 18 8
Ethylbenzene		<	0.5	0.5	ug/L	13-MAY-08 18 8
Ethyl ether		<	2.0	2.0	ug/L	13-MAY-08 18 8
Hexachlorobutadiene		<	1.0	1.0	ug/L	13-MAY-08 18 3
Isopropylbenzene		<	0.5	0.5	ug/L	13-MAY-08 18 3
p-Isopropyltoluene		<	0.5	0.5	ug/L	13-MAY-08 18 8
Methylene chloride		<	0.5	0.5	ug/L	13-MAY-08 18:18
Methyl ethyl ketone (MEK)		<	10	10	ug/L	13-MAY-08 18 3
Methyl isobutyl ketone (MIBK)		<	5.0	5.0	ug/L	13-MAY-08 18 3
Methyl tertiary butyl ether (MTBE)		<	2.0	2.0	ug/L	13-MAY-08 18 8

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Program: PL
Program Name: MPCA-32 METRO MERLA-SF
Request Number: 325815

Date Received: 02-MAY-2008
Date Generated: 19-MAY-2008
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Samples: 200810159 - 200810163

Date Reported: 19-MAY-2008

Site ID	Project Name	Sampled By
-	REILLY TAR VOC	ANDREW J TARARA

Sample No: 200810161

Receiving Comments: -

Coll Date	Coll Time	Field No	Sampling Point
01-MAY-2008	1310	-	W29-050108

Trip Blank	Field Blank
200810163	-

********** SAMPLE RESULTS **********

Unit: ORGANIC CHEMISTRY Reviewed By PDS on 19-MAY-08

Note: Positive Organic Results are indicated by BOLD.

	Result Codes	Result	Rept Level	Units	Analysis Date
468 VOCs in Water by GC/MS -EPA 524.2					
Naphthalene	QR <	1.0	1.0	ug/L	13-MAY-08 18:18
n-Propylbenzene	<	0.5	0.5	ug/L	13-MAY-08 18:18
Styrene	<	0.5	0.5	ug/L	13-MAY-08 18:18
1,1,1,2-Tetrachloroethane	<	0.2	0.2	ug/L	13-MAY-08 18:18
1,1,2,2-Tetrachloroethane	<	0.2	0.2	ug/L	13-MAY-08 18:18
Tetrachloroethene	<	0.2	0.2	ug/L	13-MAY-08 18:18
Tetrahydrofuran (THF)	QR <	10	10	ug/L	13-MAY-08 18:18
Toluene	<	0.5	0.5	ug/L	13-MAY-08 18:18
1,2,3-Trichlorobenzene	<	1.0	1.0	ug/L	13-MAY-08 18:18
1,2,4-Trichlorobenzene	<	0.5	0.5	ug/L	13-MAY-08 18:18
1,1,1-Trichloroethane	<	0.2	0.2	ug/L	13-MAY-08 18:18
1,1,2-Trichloroethane	<	0.2	0.2	ug/L	13-MAY-08 18:18
Trichloroethene (TCE)		**0.6**	**0.1**	**ug/L**	**13-MAY-08 18:18**
Trichlorofluoromethane	<	0.5	0.5	ug/L	13-MAY-08 18:18
1,2,3-Trichloropropane	<	0.5	0.5	ug/L	13-MAY-08 18:18
1,1,2-Trichlorotrifluoroethane	<	0.2	0.2	ug/L	13-MAY-08 18:18
1,2,4-Trimethylbenzene	<	0.5	0.5	ug/L	13-MAY-08 18:18
1,3,5-Trimethylbenzene	<	0.5	0.5	ug/L	13-MAY-08 18:18
Vinyl chloride		**0.7**	**0.2**	**ug/L**	**13-MAY-08 18:18**
o-Xylene	<	0.2	0.2	ug/L	13-MAY-08 18:18
p&m-Xylene	<	0.3	0.3	ug/L	13-MAY-08 18:18

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Program: PL
Program Name: MPCA-32 METRO MERLA-SF
Request Number: 325815

Date Received: 02-MAY-2008
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Samples: 200810159 - 200810163

Date Reported: 19-MAY-2008

Site ID	Project Name	Sampled By
-	REILLY TAR VOC	ANDREW J TARARA

Sample No: 200810162

Receiving Comments: -

Coll Date	Coll Time	Field No	Sampling Point
01-MAY-2008	1615	-	W403-050108

Trip Blank	Field Blank
200810163	-

********** SAMPLE RESULTS **********

Unit: ORGANIC CHEMISTRY Reviewed By PDS on 19-MAY-08

Note: Positive Organic Results are indicated by BOLD.

	Result Codes	Result	Rept Level	Units	Analysis Date
468 VOCs in Water by GC/MS -EPA 524.2					
4-Bromofluorobenzene (surrogate)		81	70-130	% Recovery	13-MAY-08 18 6
Dibromofluoromethane (surrogate)		102	70-130	% Recovery	13-MAY-08 18 6
1,2-Dichlorobenzene-D4 (surrogate)		89	70-130	% Recovery	13-MAY-08 18:46
1,2-Dichloroethane-D4 (surrogate)		103	70-130	% Recovery	13-MAY-08 18 6
Toluene-D8 (surrogate)		110	70-130	% Recovery	13-MAY-08 18 6
Acetone	QR <	20	20	ug/L	13-MAY-08 18:46
Allyl chloride	<	0.5	0.5	ug/L	13-MAY-08 18 6
Benzene	<	0.2	0.2	ug/L	13-MAY-08 18 6
Bromobenzene	<	0.2	0.2	ug/L	13-MAY-08 18 6
Bromochloromethane	<	0.5	0.5	ug/L	13-MAY-08 18 6
Bromodichloromethane	<	0.2	0.2	ug/L	13-MAY-08 18 6
Bromoform	<	0.5	0.5	ug/L	13-MAY-08 18 6
Bromomethane	<	1.0	1.0	ug/L	13-MAY-08 18:46
n-Butylbenzene	<	0.5	0.5	ug/L	13-MAY-08 18 6
sec-Butylbenzene	<	0.5	0.5	ug/L	13-MAY-08 18 6
tert-Butylbenzene	<	0.5	0.5	ug/L	13-MAY-08 18:46
Carbon tetrachloride	<	0.2	0.2	ug/L	13-MAY-08 18 6
Chlorobenzene	<	0.2	0.2	ug/L	13-MAY-08 18 6
Chlorodibromomethane	<	0.5	0.5	ug/L	13-MAY-08 18 6
Chloroethane	<	0.5	0.5	ug/L	13-MAY-08 18 6
Chloroform	<	0.1	0.1	ug/L	13-MAY-08 18 6
Chloromethane	<	1.0	1.0	ug/L	13-MAY-08 18 6
2-Chlorotoluene	<	0.5	0.5	ug/L	13-MAY-08 18:46
4-Chlorotoluene	<	0.5	0.5	ug/L	13-MAY-08 18 6
1,2-Dibromo-3-chloropropane (DBCP)	<	2.0	2.0	ug/L	13-MAY-08 18 6
1,2-Dibromoethane (EDB)	<	0.5	0.5	ug/L	13-MAY-08 18 6

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Program: PL
Program Name: MPCA-32 METRO MERLA-SF
Request Number: 325815

Date Received: 02-MAY-2008
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Samples: 200810159 - 200810163

Date Reported: 19-MAY-2008

Site ID	Project Name	Sampled By
-	REILLY TAR VOC	ANDREW J TARARA

Sample No: 200810162

Receiving Comments: -

Coll Date	Coll Time	Field No	Sampling Point
01-MAY-2008	1615	-	W403-050108

Trip Blank	Field Blank
200810163	-

********** SAMPLE RESULTS **********

Unit: ORGANIC CHEMISTRY Reviewed By PDS on 19-MAY-08

Note: Positive Organic Results are indicated by BOLD.

	Result Codes	Result	Rept Level	Units	Analysis Date
468 VOCs in Water by GC/MS -EPA 524.2					
Dibromomethane		< 0.5	0.5	ug/L	13-MAY-08 18:46
1,2-Dichlorobenzene		< 0.2	0.2	ug/L	13-MAY-08 18:46
1,3-Dichlorobenzene		< 0.2	0.2	ug/L	13-MAY-08 18:46
1,4-Dichlorobenzene		< 0.2	0.2	ug/L	13-MAY-08 18:46
Dichlorodifluoromethane		< 1.0	1.0	ug/L	13-MAY-08 18:46
1,1-Dichloroethane		< 0.2	0.2	ug/L	13-MAY-08 18:46
1,2-Dichloroethane		< 0.2	0.2	ug/L	13-MAY-08 18:46
1,1-Dichloroethene		< 0.5	0.5	ug/L	13-MAY-08 18:46
cis-1,2-Dichloroethene		< 0.2	0.2	ug/L	13-MAY-08 18:46
trans-1,2-Dichloroethene		< 0.1	0.1	ug/L	13-MAY-08 18:46
Dichlorofluoromethane		< 0.5	0.5	ug/L	13-MAY-08 18:46
1,2-Dichloropropane		< 0.2	0.2	ug/L	13-MAY-08 18:46
1,3-Dichloropropane		< 0.2	0.2	ug/L	13-MAY-08 18:46
2,2-Dichloropropane		< 0.5	0.5	ug/L	13-MAY-08 18:46
1,1-Dichloropropene		< 0.2	0.2	ug/L	13-MAY-08 18:46
cis-1,3-Dichloropropene		< 0.2	0.2	ug/L	13-MAY-08 18:46
trans-1,3-Dichloropropene	QR	< 0.2	0.2	ug/L	13-MAY-08 18:46
Ethylbenzene		< 0.5	0.5	ug/L	13-MAY-08 18:46
Ethyl ether		< 2.0	2.0	ug/L	13-MAY-08 18:46
Hexachlorobutadiene		< 1.0	1.0	ug/L	13-MAY-08 18:46
Isopropylbenzene		< 0.5	0.5	ug/L	13-MAY-08 18:46
p-Isopropyltoluene		< 0.5	0.5	ug/L	13-MAY-08 18:46
Methylene chloride		< 0.5	0.5	ug/L	13-MAY-08 18:46
Methyl ethyl ketone (MEK)		< 10	10	ug/L	13-MAY-08 18:46
Methyl isobutyl ketone (MIBK)		< 5.0	5.0	ug/L	13-MAY-08 18:46
Methyl tertiary butyl ether (MTBE)		< 2.0	2.0	ug/L	13-MAY-08 18:46

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Program: PL
Program Name: MPCA-32 METRO MERLA-SF
Request Number: 325815

Date Received: 02-MAY-2008
Date Generated: 19-MAY-2008
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Samples: 200810159 - 200810163

Date Reported: 19-MAY-2008

Site ID	Project Name	Sampled By
-	REILLY TAR VOC	ANDREW J TARARA

Sample No: 200810162

Receiving Comments: -

Coll Date	Coll Time	Field No	Sampling Point
01-MAY-2008	1615	-	W403-050108

Trip Blank	Field Blank
200810163	-

********** SAMPLE RESULTS **********

Unit: ORGANIC CHEMISTRY Reviewed By PDS on 19-MAY-08

Note: Positive Organic Results are indicated by BOLD.

	Result Codes	Result	Rept Level	Units	Analysis Date
468 VOCs in Water by GC/MS -EPA 524.2					
Naphthalene	QR <	1.0	1.0	ug/L	13-MAY-08 18 6
n-Propylbenzene	<	0.5	0.5	ug/L	13-MAY-08 18 6
Styrene	<	0.5	0.5	ug/L	13-MAY-08 18 6
1,1,1,2-Tetrachloroethane	<	0.2	0.2	ug/L	13-MAY-08 18 6
1,1,2,2-Tetrachloroethane	<	0.2	0.2	ug/L	13-MAY-08 18 6
Tetrachloroethene	<	0.2	0.2	ug/L	13-MAY-08 18 6
Tetrahydrofuran (THF)	QR <	10	10	ug/L	13-MAY-08 18 6
Toluene	<	0.5	0.5	ug/L	13-MAY-08 18 6
1,2,3-Trichlorobenzene	<	1.0	1.0	ug/L	13-MAY-08 18 6
1,2,4-Trichlorobenzene	<	0.5	0.5	ug/L	13-MAY-08 18 6
1,1,1-Trichloroethane	<	0.2	0.2	ug/L	13-MAY-08 18 6
1,1,2-Trichloroethane	<	0.2	0.2	ug/L	13-MAY-08 18 6
Trichloroethene (TCE)	<	0.1	0.1	ug/L	13-MAY-08 18 6
Trichlorofluoromethane	<	0.5	0.5	ug/L	13-MAY-08 18 6
1,2,3-Trichloropropane	<	0.5	0.5	ug/L	13-MAY-08 18 6
1,1,2-Trichlorotrifluoroethane	<	0.2	0.2	ug/L	13-MAY-08 18 6
1,2,4-Trimethylbenzene	<	0.5	0.5	ug/L	13-MAY-08 18 6
1,3,5-Trimethylbenzene	<	0.5	0.5	ug/L	13-MAY-08 18 6
Vinyl chloride	<	0.2	0.2	ug/L	13-MAY-08 18 6
o-Xylene	<	0.2	0.2	ug/L	13-MAY-08 18 6
p&m-Xylene	<	0.3	0.3	ug/L	13-MAY-08 18 6

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Program: PL
Program Name: MPCA-32 METRO MERLA-SF
Request Number: 325815

Date Received: 02-MAY-2008
Date Generated: 19-MAY-2008
Request Page: 13 of 30

Samples: 200810159 - 200810163

Date Reported: 19-MAY-2008

Site ID	Project Name	Sampled By
-	REILLY TAR VOC	ANDREW J TARARA

Sample No: 200810163 (Trip Blank)

Receiving Comments: -

Coll Date	Coll Time	Field No	Sampling Point
01-MAY-2008	-	-	TRIP BLANK

Trip Blank	Field Blank
200810163	-

********** SAMPLE RESULTS **********

Unit: ORGANIC CHEMISTRY Reviewed By PDS on 19-MAY-08

Note: Positive Organic Results are indicated by BOLD.

	Result Codes	Result	Rept Level	Units	Analysis Date
468 VOCs in Water by GC/MS -EPA 524.2					
4-Bromofluorobenzene (surrogate)		103	70-130	% Recovery	13-MAY-08 19:15
Dibromofluoromethane (surrogate)		100	70-130	% Recovery	13-MAY-08 19:15
1,2-Dichlorobenzene-D4 (surrogate)		104	70-130	% Recovery	13-MAY-08 19:15
1,2-Dichloroethane-D4 (surrogate)		105	70-130	% Recovery	13-MAY-08 19:15
Toluene-D8 (surrogate)		109	70-130	% Recovery	13-MAY-08 19:15
Acetone	QR <	20	20	ug/L	13-MAY-08 19:15
Allyl chloride	<	0.5	0.5	ug/L	13-MAY-08 19:15
Benzene	<	0.2	0.2	ug/L	13-MAY-08 19:15
Bromobenzene	<	0.2	0.2	ug/L	13-MAY-08 19:15
Bromochloromethane	<	0.5	0.5	ug/L	13-MAY-08 19:15
Bromodichloromethane	<	0.2	0.2	ug/L	13-MAY-08 19:15
Bromoform	<	0.5	0.5	ug/L	13-MAY-08 19:15
Bromomethane	<	1.0	1.0	ug/L	13-MAY-08 19:15
n-Butylbenzene	<	0.5	0.5	ug/L	13-MAY-08 19:15
sec-Butylbenzene	<	0.5	0.5	ug/L	13-MAY-08 19:15
tert-Butylbenzene	<	0.5	0.5	ug/L	13-MAY-08 19:15
Carbon tetrachloride	<	0.2	0.2	ug/L	13-MAY-08 19:15
Chlorobenzene	<	0.2	0.2	ug/L	13-MAY-08 19:15
Chlorodibromomethane	<	0.5	0.5	ug/L	13-MAY-08 19:15
Chloroethane	<	0.5	0.5	ug/L	13-MAY-08 19:15
Chloroform	<	0.1	0.1	ug/L	13-MAY-08 19:15
Chloromethane	<	1.0	1.0	ug/L	13-MAY-08 19:15
2-Chlorotoluene	<	0.5	0.5	ug/L	13-MAY-08 19:15
4-Chlorotoluene	<	0.5	0.5	ug/L	13-MAY-08 19:15
1,2-Dibromo-3-chloropropane (DBCP)	<	2.0	2.0	ug/L	13-MAY-08 19:15
1,2-Dibromoethane (EDB)	<	0.5	0.5	ug/L	13-MAY-08 19:15

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Program: PL
Program Name: MPCA-32 METRO MERLA-SF
Request Number: 325815

Date Received: 02-MAY-2008
Date Generated: 19-MAY-2008
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Samples: 200810159 - 200810163

Date Reported: 19-MAY-2008

Site ID	Project Name	Sampled By
-	REILLY TAR VOC	ANDREW J TARARA

Sample No: 200810163 (Trip Blank)

Receiving Comments: -

Coll Date	Coll Time	Field No	Sampling Point
01-MAY-2008	-	-	TRIP BLANK

Trip Blank	Field Blank
200810163	-

********** SAMPLE RESULTS **********

Unit: ORGANIC CHEMISTRY Reviewed By PDS on 19-MAY-08

Note: Positive Organic Results are indicated by BOLD.

	Result Codes	Result	Rept Level	Units	Analysis Date
468 VOCs in Water by GC/MS -EPA 524.2					
Dibromomethane	<	0.5	0.5	ug/L	13-MAY-08 19 5
1,2-Dichlorobenzene	<	0.2	0.2	ug/L	13-MAY-08 19 5
1,3-Dichlorobenzene	<	0.2	0.2	ug/L	13-MAY-08 19:15
1,4-Dichlorobenzene	<	0.2	0.2	ug/L	13-MAY-08 19 5
Dichlorodifluoromethane	<	1.0	1.0	ug/L	13-MAY-08 19 5
1,1-Dichloroethane	<	0.2	0.2	ug/L	13-MAY-08 19:15
1,2-Dichloroethane	<	0.2	0.2	ug/L	13-MAY-08 19 5
1,1-Dichloroethene	<	0.5	0.5	ug/L	13-MAY-08 19 5
cis-1,2-Dichloroethene	<	0.2	0.2	ug/L	13-MAY-08 19 5
trans-1,2-Dichloroethene	<	0.1	0.1	ug/L	13-MAY-08 19 5
Dichlorofluoromethane	<	0.5	0.5	ug/L	13-MAY-08 19 5
1,2-Dichloropropane	<	0.2	0.2	ug/L	13-MAY-08 19 5
1,3-Dichloropropane	<	0.2	0.2	ug/L	13-MAY-08 19:15
2,2-Dichloropropane	<	0.5	0.5	ug/L	13-MAY-08 19 5
1,1-Dichloropropene	<	0.2	0.2	ug/L	13-MAY-08 19 5
cis-1,3-Dichloropropene	<	0.2	0.2	ug/L	13-MAY-08 19:15
trans-1,3-Dichloropropene	QR <	0.2	0.2	ug/L	13-MAY-08 19 5
Ethylbenzene	<	0.5	0.5	ug/L	13-MAY-08 19 5
Ethyl ether	<	2.0	2.0	ug/L	13-MAY-08 19 5
Hexachlorobutadiene	<	1.0	1.0	ug/L	13-MAY-08 19 5
Isopropylbenzene	<	0.5	0.5	ug/L	13-MAY-08 19 5
p-Isopropyltoluene	<	0.5	0.5	ug/L	13-MAY-08 19 5
Methylene chloride	<	0.5	0.5	ug/L	13-MAY-08 19:15
Methyl ethyl ketone (MEK)	<	10	10	ug/L	13-MAY-08 19: 5
Methyl isobutyl ketone (MIBK)	<	5.0	5.0	ug/L	13-MAY-08 19 5
Methyl tertiary butyl ether (MTBE)	<	2.0	2.0	ug/L	13-MAY-08 19:15

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Program: PL
Program Name: MPCA-32 METRO MERLA-SF
Request Number: 325815

Date Received: 02-MAY-2008
Date Generated: 19-MAY-2008
Request Page: 15 of 30

Samples: 200810159 - 200810163

Date Reported: 19-MAY-2008

Site ID	Project Name	Sampled By
-	REILLY TAR VOC	ANDREW J TARARA

Sample No: 200810163 (Trip Blank)

Receiving Comments: -

Coll Date	Coll Time	Field No	Sampling Point
01-MAY-2008	-	-	TRIP BLANK

Trip Blank	Field Blank
200810163	-

********** SAMPLE RESULTS **********

Unit: ORGANIC CHEMISTRY Reviewed By PDS on 19-MAY-08

Note: Positive Organic Results are indicated by BOLD.

	Result Codes	Result	Rept Level	Units	Analysis Date
468 VOCs in Water by GC/MS -EPA 524.2					
Naphthalene	QR <	1.0	1.0	ug/L	13-MAY-08 19:15
n-Propylbenzene	<	0.5	0.5	ug/L	13-MAY-08 19:15
Styrene	<	0.5	0.5	ug/L	13-MAY-08 19:15
1,1,1,2-Tetrachloroethane	<	0.2	0.2	ug/L	13-MAY-08 19:15
1,1,2,2-Tetrachloroethane	<	0.2	0.2	ug/L	13-MAY-08 19:15
Tetrachloroethene	<	0.2	0.2	ug/L	13-MAY-08 19:15
Tetrahydrofuran (THF)	QR <	10	10	ug/L	13-MAY-08 19:15
Toluene	<	0.5	0.5	ug/L	13-MAY-08 19:15
1,2,3-Trichlorobenzene	<	1.0	1.0	ug/L	13-MAY-08 19:15
1,2,4-Trichlorobenzene	<	0.5	0.5	ug/L	13-MAY-08 19:15
1,1,1-Trichloroethane	<	0.2	0.2	ug/L	13-MAY-08 19:15
1,1,2-Trichloroethane	<	0.2	0.2	ug/L	13-MAY-08 19:15
Trichloroethene (TCE)	<	0.1	0.1	ug/L	13-MAY-08 19:15
Trichlorofluoromethane	<	0.5	0.5	ug/L	13-MAY-08 19:15
1,2,3-Trichloropropane	<	0.5	0.5	ug/L	13-MAY-08 19:15
1,1,2-Trichlorotrifluoroethane	<	0.2	0.2	ug/L	13-MAY-08 19:15
1,2,4-Trimethylbenzene	<	0.5	0.5	ug/L	13-MAY-08 19:15
1,3,5-Trimethylbenzene	<	0.5	0.5	ug/L	13-MAY-08 19:15
Vinyl chloride	<	0.2	0.2	ug/L	13-MAY-08 19:15
o-Xylene	<	0.2	0.2	ug/L	13-MAY-08 19:15
p&m-Xylene	<	0.3	0.3	ug/L	13-MAY-08 19:15

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Program: PL
Program Name: MPCA-32 METRO MERLA-SF
Request Number: 325815

Date Received: 02-MAY-2008
Date Generated: 19-MAY-2008

Samples: 200810159 - 200810163

Date Reported: 19-MAY-2008

Site ID	Project Name	Sampled By
-	REILLY TAR VOC	ANDREW J TARARA

Result Code Description

J	The analyte was positively identified. The result is below the report level and is estimated.
QO	Response for this analyte in a continuing calibration verification standard did not meet the QC acceptance criteria. Since the recovery showed a positive bias and the analyte was not detected in the sample, the sample result for this analyte was accepted without qualification.
QR	Response for this analyte in a continuing calibration verification standard did not meet the QC acceptance criteria. The sample result for this analyte should be considered as estimated.
RC	Report level was changed due to sample dilution.

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Program: PL
Program Name: MPCA-32 METRO MERLA-SF
Request Number: 325815

Date Received: 02-MAY-2008
Date Generated: 19-MAY-2008
Request Page: 17 of 30

Samples: 200810159 - 200810163

Date Reported: 19-MAY-2008

Site ID	Project Name	Sampled By
-	REILLY TAR VOC	ANDREW J TARARA

Quality Control Batch ID: 20080505.16 AN: 468

All samples analyzed in the batch

200810149, 200810150, 200810151, 200810152, 200810153, 200810154, 200810155, 200810156, 200810157, 200810159, 200810160

VOCs in Water by GC/MS
EPA 524.2

Sample	Collection Date	Analysis Date	Analysis Time	Holding Time		Acceptable
200810159	01-MAY-08	07-MAY-08	6	14	DAYS	Y
200810160	01-MAY-08	07-MAY-08	6	14	DAYS	Y

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Final Report - Client Copy - Report Of Analytical Results

Program: PL
Program Name: MPCA-32 METRO MERLA-SF
Request Number: 325815

Date Received: 02-MAY-2008
Date Generated: 19-MAY-2008

Samples: 200810159 - 200810163

Date Reported: 19-MAY-2008

Site ID	Project Name	Sampled By
-	REILLY TAR VOC	ANDREW J TARARA

Quality Control Batch ID: 20080505.16 AN: 468

Method Blank

	Result Code	Surrogate % Recovery	Accept Limits
4-Bromofluorobenzene (surrogate)		100	70-130
Dibromofluoromethane (surrogate)		103	70-130
1,2-Dichlorobenzene-D4 (surrogate)		101	70-130
1,2-Dichloroethane-D4 (surrogate)		107	70-130
Toluene-D8 (surrogate)		103	70-130

	Result	Report Level	Units	Control Limit
Acetone	<	20	ug/L	20
Allyl chloride	<	0.5	ug/L	0.5
Benzene	<	0.2	ug/L	0.2
Bromobenzene	<	0.2	ug/L	0.2
Bromochloromethane	<	0.5	ug/L	0.5
Bromodichloromethane	<	0.2	ug/L	0.2
Bromoform	<	0.5	ug/L	0.5
Bromomethane	<	1.0	ug/L	1.0
n-Butylbenzene	<	0.5	ug/L	0.5
sec-Butylbenzene	<	0.5	ug/L	0.5
tert-Butylbenzene	<	0.5	ug/L	0.5
Carbon tetrachloride	<	0.2	ug/L	0.2
Chlorobenzene	<	0.2	ug/L	0.2
Chlorodibromomethane	<	0.5	ug/L	0.5
Chloroethane	<	0.5	ug/L	0.5
Chloroform	<	0.1	ug/L	0.1
Chloromethane	<	1.0	ug/L	1.0
2-Chlorotoluene	<	0.5	ug/L	0.5
4-Chlorotoluene	<	0.5	ug/L	0.5
1,2-Dibromo-3-chloropropane (DBCP)	<	2.0	ug/L	2.0
1,2-Dibromoethane (EDB)	<	0.5	ug/L	0.5
Dibromomethane	<	0.5	ug/L	0.5
1,2-Dichlorobenzene	<	0.2	ug/L	0.2
1,3-Dichlorobenzene	<	0.2	ug/L	0.2
1,4-Dichlorobenzene	<	0.2	ug/L	0.2
Dichlorodifluoromethane	<	1.0	ug/L	1.0

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Program: PL
Program Name: MPCA-32 METRO MERLA-SF
Request Number: 325815

Date Received: 02-MAY-2008
Date Generated: 19-MAY-2008

Samples: 200810159 - 200810163

Date Reported: 19-MAY-2008

Site ID	Project Name	Sampled By
-	REILLY TAR VOC	ANDREW J TARARA

Quality Control Batch ID: 20080505.16 AN: 468

Method Blank

	Result	Report Level	Units	Control Limit
1,1-Dichloroethane	<	0.2	ug/L	0.2
1,2-Dichloroethane	<	0.2	ug/L	0.2
1,1-Dichloroethene	<	0.5	ug/L	0.5
cis-1,2-Dichloroethene	<	0.2	ug/L	0.2
trans-1,2-Dichloroethene	<	0.1	ug/L	0.1
Dichlorofluoromethane	<	0.5	ug/L	0.5
1,2-Dichloropropane	<	0.2	ug/L	0.2
1,3-Dichloropropane	<	0.2	ug/L	0.2
2,2-Dichloropropane	<	0.5	ug/L	0.5
1,1-Dichloropropene	<	0.2	ug/L	0.2
cis-1,3-Dichloropropene	<	0.2	ug/L	0.2
trans-1,3-Dichloropropene	<	0.2	ug/L	0.2
Ethylbenzene	<	0.5	ug/L	0.5
Ethyl ether	<	2.0	ug/L	2.0
Hexachlorobutadiene	<	1.0	ug/L	1.0
Isopropylbenzene	<	0.5	ug/L	0.5
p-Isopropyltoluene	<	0.5	ug/L	0.5
Methylene chloride	<	0.5	ug/L	0.5
Methyl ethyl ketone (MEK)	<	10	ug/L	10
Methyl isobutyl ketone (MIBK)	<	5.0	ug/L	5.0
Methyl tertiary butyl ether (MTBE)	<	2.0	ug/L	2.0
Naphthalene	<	1.0	ug/L	1.0
n-Propylbenzene	<	0.5	ug/L	0.5
Styrene	<	0.5	ug/L	0.5
1,1,1,2-Tetrachloroethane	<	0.2	ug/L	0.2
1,1,2,2-Tetrachloroethane	<	0.2	ug/L	0.2
Tetrachloroethene	<	0.2	ug/L	0.2
Tetrahydrofuran (THF)	<	10	ug/L	10
Toluene	<	0.5	ug/L	0.5
1,2,3-Trichlorobenzene	<	1.0	ug/L	1.0
1,2,4-Trichlorobenzene	<	0.5	ug/L	0.5
1,1,1-Trichloroethane	<	0.2	ug/L	0.2
1,1,2-Trichloroethane	<	0.2	ug/L	0.2
Trichloroethene (TCE)	<	0.1	ug/L	0.1

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Program: PL
Program Name: MPCA-32 METRO MERLA-SF
Request Number: 325815

Date Received: 02-MAY-2008
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Samples: 200810159 - 200810163

Date Reported: 19-MAY-2008

Site ID	Project Name	Sampled By
-	REILLY TAR VOC	ANDREW J TARARA

Quality Control Batch ID: 20080505.16 AN: 468

Method Blank

	Result	Report Level	Units	Control Limit
Trichlorofluoromethane	<	0.5	ug/L	0.5
1,2,3-Trichloropropane	<	0.5	ug/L	0.5
1,1,2-Trichlorotrifluoroethane	<	0.2	ug/L	0.2
1,2,4-Trimethylbenzene	<	0.5	ug/L	0.5
1,3,5-Trimethylbenzene	<	0.5	ug/L	0.5
Vinyl chloride	<	0.2	ug/L	0.2
o-Xylene	<	0.2	ug/L	0.2
p&m-Xylene	<	0.3	ug/L	0.3

Laboratory Control Samples

	Result Code	LCS %Recovery	LCSD %Recovery	Accept. Limits
4-Bromofluorobenzene (surrogate)		96	93	70-130
Dibromofluoromethane (surrogate)		103	104	70-130
1,2-Dichlorobenzene-D4 (surrogat		87	88	70-130
1,2-Dichloroethane-D4 (surrogate		101	102	70-130
Toluene-D8 (surrogate)		106	112	70-130

	Spike Level	Units	Spike %Rec	Dup %Rec	RPD	%Rec Req	RPD Req
Acetone	5	ug/L	97	129	29	70-130	30
Allyl chloride	5	ug/L	98	97	1	70-130	30
Benzene	5	ug/L	120	115	4	70-130	30
Bromobenzene	5	ug/L	100	97	3	70-130	30
Bromochloromethane	5	ug/L	119	119	0	70-130	30
Bromodichloromethane	5	ug/L	117	110	6	70-130	30
Bromoform	5	ug/L	77	64*	18	70-130	30
Bromomethane	5	ug/L	61*	61*	1	70-130	30
n-Butylbenzene	5	ug/L	82	73	11	70-130	30
sec-Butylbenzene	5	ug/L	90	83	9	70-130	30

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Program: PL
Program Name: MPCA-32 METRO MERLA-SF
Request Number: 325815

Date Received: 02-MAY-2008
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Samples: 200810159 - 200810163

Date Reported: 19-MAY-2008

Site ID	Project Name	Sampled By
-	REILLY TAR VOC	ANDREW J TARARA

Quality Control Batch ID: 20080505.16 AN: 468

Laboratory Control Samples

	Spike Level	Units	Spike %Rec	Dup %Rec	RPD	%Rec Req	RPD Req
tert-Butylbenzene	5	ug/L	86	81	6	70-130	30
Carbon tetrachloride	5	ug/L	119	115	3	70-130	30
Chlorobenzene	5	ug/L	103	91	12	70-130	30
Chlorodibromomethane	5	ug/L	94	87	9	70-130	30
Chloroethane	5	ug/L	99	105	6	70-130	30
Chloroform	5	ug/L	125	121	3	70-130	30
Chloromethane	5	ug/L	70	74	5	70-130	30
2-Chlorotoluene	5	ug/L	105	97	9	70-130	30
4-Chlorotoluene	5	ug/L	111	99	11	70-130	30
1,2-Dibromo-3-chloropropane (D	5	ug/L	86	84	3	70-130	30
1,2-Dibromoethane (EDB)	5	ug/L	106	108	2	70-130	30
Dibromomethane	5	ug/L	125	129	3	70-130	30
1,2-Dichlorobenzene	5	ug/L	99	95	5	70-130	30
1,3-Dichlorobenzene	5	ug/L	101	97	5	70-130	30
1,4-Dichlorobenzene	5	ug/L	99	94	5	70-130	30
Dichlorodifluoromethane	5	ug/L	56*	43*	26	70-130	30
1,1-Dichloroethane	5	ug/L	112	117	4	70-130	30
1,2-Dichloroethane	5	ug/L	126	123	2	70-130	30
1,1-Dichloroethene	5	ug/L	98	103	5	70-130	30
cis-1,2-Dichloroethene	5	ug/L	115	121	5	70-130	30
trans-1,2-Dichloroethene	5	ug/L	107	110	3	70-130	30
Dichlorofluoromethane	5	ug/L	105	119	13	70-130	30
1,2-Dichloropropane	5	ug/L	120	116	3	70-130	30
1,3-Dichloropropane	5	ug/L	107	109	2	70-130	30
2,2-Dichloropropane	5	ug/L	88	68*	25	70-130	30
1,1-Dichloropropene	5	ug/L	119	114	4	70-130	30
cis-1,3-Dichloropropene	5	ug/L	82	80	2	70-130	30
trans-1,3-Dichloropropene	5	ug/L	85	84	2	70-130	30

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Program: PL
Program Name: MPCA-32 METRO MERLA-SF
Request Number: 325815

Date Received: 02-MAY-2008
Date Generated: 19-MAY-2008
Request Page: 22 of 30

Samples: 200810159 - 200810163

Date Reported: 19-MAY-2008

Site ID	Project Name	Sampled By
-	REILLY TAR VOC	ANDREW J TARARA

Quality Control Batch ID: 20080505.16 AN: 468

Laboratory Control Samples

	Spike Level	Units	Spike %Rec	Dup %Rec	RPD	%Rec Req	RPD Req
Ethylbenzene	5	ug/L	110	84	26	70-130	30
Ethyl ether	5	ug/L	103	111	7	70-130	30
Hexachlorobutadiene	5	ug/L	90	93	3	70-130	30
Isopropylbenzene	5	ug/L	90	84	8	70-130	30
p-Isopropyltoluene	5	ug/L	84	77	8	70-130	30
Methylene chloride	5	ug/L	101	106	5	70-130	30
Methyl ethyl ketone (MEK)	5	ug/L	118	113	4	70-130	30
Methyl isobutyl ketone (MIBK)	5	ug/L	95	95	1	70-130	30
Methyl tertiary butyl ether (M'	5	ug/L	105	112	6	70-130	30
Naphthalene	5	ug/L	71	77	8	70-130	30
n-Propylbenzene	5	ug/L	91	82	10	70-130	30
Styrene	5	ug/L	93	71	28	70-130	30
1,1,1,2-Tetrachloroethane	5	ug/L	104	83	23	70-130	30
1,1,2,2-Tetrachloroethane	5	ug/L	101	95	6	70-130	30
Tetrachloroethene	5	ug/L	104	102	2	70-130	30
Tetrahydrofuran (THF)	5	ug/L	249*	277*	11	70-130	30
Toluene	5	ug/L	104	104	0	70-130	30
1,2,3-Trichlorobenzene	5	ug/L	86	93	8	70-130	30
1,2,4-Trichlorobenzene	5	ug/L	85	92	7	70-130	30
1,1,1-Trichloroethane	5	ug/L	123	118	4	70-130	30
1,1,2-Trichloroethane	5	ug/L	107	111	4	70-130	30
Trichloroethene (TCE)	5	ug/L	119	114	4	70-130	30
Trichlorofluoromethane	5	ug/L	92	106	14	70-130	30
1,2,3-Trichloropropane	5	ug/L	100	93	7	70-130	30
1,1,2-Trichlorotrifluoroethane	5	ug/L	98	103	4	70-130	30
1,2,4-Trimethylbenzene	5	ug/L	91	83	9	70-130	30
1,3,5-Trimethylbenzene	5	ug/L	88	81	9	70-130	30
Vinyl chloride	5	ug/L	81	83	3	70-130	30

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Program: PL
Program Name: MPCA-32 METRO MERLA-SF
Request Number: 325815

Date Received: 02-MAY-2008
Date Generated: 19-MAY-2008

Samples: 200810159 - 200810163

Date Reported: 19-MAY-2008

Site ID	Project Name	Sampled By
-	REILLY TAR VOC	ANDREW J TARARA

Quality Control Batch ID: 20080505.16 AN: 468

Laboratory Control Samples

	Spike Level	Units	Spike %Rec	Dup %Rec	RPD	%Rec Req	RPD Req
o-Xylene	5	ug/L	103	76	29	70-130	30
p&m-Xylene	5	ug/L	96	73	27	70-130	30

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Program: PL
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Request Number: 325815

Date Received: 02-MAY-2008
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Samples: 200810159 - 200810163

Date Reported: 19-MAY-2008

Site ID	Project Name	Sampled By
-	REILLY TAR VOC	ANDREW J TARARA

Quality Control Batch ID: 20080513.11 AN: 468

All samples analyzed in the batch

200810158, 200810161, 200810162, 200810163, 200810187, 200810236, 200810241, 200810355, 200810625, 200810626, 200810627, 200810934, 200811238

VOCs in Water by GC/MS
EPA 524.2

Sample	Collection Date	Analysis Date	Analysis Time	Holding Time		Acceptable
200810161	01-MAY-08	13-MAY-08	12	14	DAYS	Y
200810162	01-MAY-08	13-MAY-08	12	14	DAYS	Y
200810163	01-MAY-08	13-MAY-08	12	14	DAYS	Y

Minnesota Department Of Health - Environmental Laboratory

Final Report - Client Copy - Report Of Analytical Results

Program: PL
Program Name: MPCA-32 METRO MERLA-SF
Request Number: 325815

Date Received: 02-MAY-2008
Date Generated: 19-MAY-2008
Request Page: 25 of 30

Samples: 200810159 - 200810163

Date Reported: 19-MAY-2008

Site ID	Project Name	Sampled By
-	REILLY TAR VOC	ANDREW J TARARA

Quality Control Batch ID: 20080513.11 AN: 468

Method Blank

	Result Code	Surrogate % Recovery	Accept Limits
4-Bromofluorobenzene (surrogate)		104	70-130
Dibromofluoromethane (surrogate)		101	70-130
1,2-Dichlorobenzene-D4 (surrogate)		103	70-130
1,2-Dichloroethane-D4 (surrogate)		103	70-130
Toluene-D8 (surrogate)		109	70-130

	Result	Report Level	Units	Control Limit
Acetone	<	20	ug/L	20
Allyl chloride	<	0.5	ug/L	0.5
Benzene	<	0.2	ug/L	0.2
Bromobenzene	<	0.2	ug/L	0.2
Bromochloromethane	<	0.5	ug/L	0.5
Bromodichloromethane	<	0.2	ug/L	0.2
Bromoform	<	0.5	ug/L	0.5
Bromomethane	<	1.0	ug/L	1.0
n-Butylbenzene	<	0.5	ug/L	0.5
sec-Butylbenzene	<	0.5	ug/L	0.5
tert-Butylbenzene	<	0.5	ug/L	0.5
Carbon tetrachloride	<	0.2	ug/L	0.2
Chlorobenzene	<	0.2	ug/L	0.2
Chlorodibromomethane	<	0.5	ug/L	0.5
Chloroethane	<	0.5	ug/L	0.5
Chloroform	<	0.1	ug/L	0.1
Chloromethane	<	1.0	ug/L	1.0
2-Chlorotoluene	<	0.5	ug/L	0.5
4-Chlorotoluene	<	0.5	ug/L	0.5
1,2-Dibromo-3-chloropropane (DBCP)	<	2.0	ug/L	2.0
1,2-Dibromoethane (EDB)	<	0.5	ug/L	0.5
Dibromomethane	<	0.5	ug/L	0.5
1,2-Dichlorobenzene	<	0.2	ug/L	0.2
1,3-Dichlorobenzene	<	0.2	ug/L	0.2
1,4-Dichlorobenzene	<	0.2	ug/L	0.2
Dichlorodifluoromethane	<	1.0	ug/L	1.0

Minnesota Department Of Health - Environmental Laboratory

Final Report - Client Copy - Report Of Analytical Results

Program: PL
Program Name: MPCA-32 METRO MERLA-SF
Request Number: 325815

Date Received: 02-MAY-2008
Date Generated: 19-MAY-2008
Request Page: 26 of 30

Samples: 200810159 - 200810163

Date Reported: 19-MAY-2008

Site ID	Project Name	Sampled By
-	REILLY TAR VOC	ANDREW J TARARA

Quality Control Batch ID: 20080513.11 AN: 468

Method Blank

	Result	Report Level	Units	Control Limit
1,1-Dichloroethane	<	0.2	ug/L	0.2
1,2-Dichloroethane	<	0.2	ug/L	0.2
1,1-Dichloroethene	<	0.5	ug/L	0.5
cis-1,2-Dichloroethene	<	0.2	ug/L	0.2
trans-1,2-Dichloroethene	<	0.1	ug/L	0.1
Dichlorofluoromethane	<	0.5	ug/L	0.5
1,2-Dichloropropane	<	0.2	ug/L	0.2
1,3-Dichloropropane	<	0.2	ug/L	0.2
2,2-Dichloropropane	<	0.5	ug/L	0.5
1,1-Dichloropropene	<	0.2	ug/L	0.2
cis-1,3-Dichloropropene	<	0.2	ug/L	0.2
trans-1,3-Dichloropropene	<	0.2	ug/L	0.2
Ethylbenzene	<	0.5	ug/L	0.5
Ethyl ether	<	2.0	ug/L	2.0
Hexachlorobutadiene	<	1.0	ug/L	1.0
Isopropylbenzene	<	0.5	ug/L	0.5
p-Isopropyltoluene	<	0.5	ug/L	0.5
Methylene chloride	<	0.5	ug/L	0.5
Methyl ethyl ketone (MEK)	<	10	ug/L	10
Methyl isobutyl ketone (MIBK)	<	5.0	ug/L	5.0
Methyl tertiary butyl ether (MTBE)	<	2.0	ug/L	2.0
Naphthalene	<	1.0	ug/L	1.0
n-Propylbenzene	<	0.5	ug/L	0.5
Styrene	<	0.5	ug/L	0.5
1,1,1,2-Tetrachloroethane	<	0.2	ug/L	0.2
1,1,2,2-Tetrachloroethane	<	0.2	ug/L	0.2
Tetrachloroethene	<	0.2	ug/L	0.2
Tetrahydrofuran (THF)	<	10	ug/L	10
Toluene	<	0.5	ug/L	0.5
1,2,3-Trichlorobenzene	<	1.0	ug/L	1.0
1,2,4-Trichlorobenzene	<	0.5	ug/L	0.5
1,1,1-Trichloroethane	<	0.2	ug/L	0.2
1,1,2-Trichloroethane	<	0.2	ug/L	0.2
Trichloroethene (TCE)	<	0.1	ug/L	0.1

Minnesota Department Of Health - Environmental Laboratory

Final Report - Client Copy - Report Of Analytical Results

Program: PL
Program Name: MPCA-32 METRO MERLA-SF
Request Number: 325815

Date Received: 02-MAY-2008
Date Generated: 19-MAY-2008
Request Page: 27 of 30

Samples: 200810159 - 200810163

Date Reported: 19-MAY-2008

Site ID	Project Name	Sampled By
-	REILLY TAR VOC	ANDREW J TARARA

Quality Control Batch ID: 20080513.11 AN:468

Method Blank

	Result	Report Level	Units	Control Limit
Trichlorofluoromethane	<	0.5	ug/L	0.5
1,2,3-Trichloropropane	<	0.5	ug/L	0.5
1,1,2-Trichlorotrifluoroethane	<	0.2	ug/L	0.2
1,2,4-Trimethylbenzene	<	0.5	ug/L	0.5
1,3,5-Trimethylbenzene	<	0.5	ug/L	0.5
Vinyl chloride	<	0.2	ug/L	0.2
o-Xylene	<	0.2	ug/L	0.2
p&m-Xylene	<	0.3	ug/L	0.3

Laboratory Control Samples

	Result Code	LCS %Recovery	LCSD %Recovery	Accept. Limits
4-Bromofluorobenzene (surrogate)		97	95	70-130
Dibromofluoromethane (surrogate)		100	101	70-130
1,2-Dichlorobenzene-D4 (surrogat		89	89	70-130
1,2-Dichloroethane-D4 (surrogate		101	101	70-130
Toluene-D8 (surrogate)		114	102	70-130

	Spike Level	Units	Spike %Rec	Dup %Rec	RPD	%Rec Req	RPD Req
Acetone	5	ug/L	0*	19*	200*	70-130	30
Allyl chloride	5	ug/L	96	95	0	70-130	30
Benzene	5	ug/L	100	102	2	70-130	30
Bromobenzene	5	ug/L	99	97	2	70-130	30
Bromochloromethane	5	ug/L	105	104	1	70-130	30
Bromodichloromethane	5	ug/L	103	94	9	70-130	30
Bromoform	5	ug/L	96	90	7	70-130	30
Bromomethane	5	ug/L	103	94	10	70-130	30
n-Butylbenzene	5	ug/L	75	75	1	70-130	30
sec-Butylbenzene	5	ug/L	83	84	1	70-130	30

Minnesota Department Of Health - Environmental Laboratory

Final Report - Client Copy - Report Of Analytical Results

Program: PL
Program Name: MPCA-32 METRO MERLA-SF
Request Number: 325815

Date Received: 02-MAY-2008
Date Generated: 19-MAY-2008

Samples: 200810159 - 200810163

Date Reported: 19-MAY-2008

Site ID	Project Name	Sampled By
-	REILLY TAR VOC	ANDREW J TARARA

Quality Control Batch ID: 20080513.11 AN: 468

Laboratory Control Samples

	Spike Level	Units	Spike %Rec	Dup %Rec	RPD	%Rec Req	RPD Req
tert-Butylbenzene	5	ug/L	79	80	0	70-130	30
Carbon tetrachloride	5	ug/L	99	98	1	70-130	30
Chlorobenzene	5	ug/L	99	98	1	70-130	30
Chlorodibromomethane	5	ug/L	102	97	5	70-130	30
Chloroethane	5	ug/L	121	117	4	70-130	30
Chloroform	5	ug/L	101	106	4	70-130	30
Chloromethane	5	ug/L	117	105	11	70-130	30
2-Chlorotoluene	5	ug/L	103	102	1	70-130	30
4-Chlorotoluene	5	ug/L	106	105	1	70-130	30
1,2-Dibromo-3-chloropropane (D	5	ug/L	84	83	1	70-130	30
1,2-Dibromoethane (EDB)	5	ug/L	100	103	2	70-130	30
Dibromomethane	5	ug/L	103	103	1	70-130	30
1,2-Dichlorobenzene	5	ug/L	96	96	0	70-130	30
1,3-Dichlorobenzene	5	ug/L	99	97	2	70-130	30
1,4-Dichlorobenzene	5	ug/L	96	94	2	70-130	30
Dichlorodifluoromethane	5	ug/L	127	117	9	70-130	30
1,1-Dichloroethane	5	ug/L	100	105	5	70-130	30
1,2-Dichloroethane	5	ug/L	98	106	8	70-130	30
1,1-Dichloroethene	5	ug/L	99	98	1	70-130	30
cis-1,2-Dichloroethene	5	ug/L	99	98	1	70-130	30
trans-1,2-Dichloroethene	5	ug/L	100	101	1	70-130	30
Dichlorofluoromethane	5	ug/L	109	113	4	70-130	30
1,2-Dichloropropane	5	ug/L	103	99	4	70-130	30
1,3-Dichloropropane	5	ug/L	102	103	0	70-130	30
2,2-Dichloropropane	5	ug/L	99	87	12	70-130	30
1,1-Dichloropropene	5	ug/L	98	99	1	70-130	30
cis-1,3-Dichloropropene	5	ug/L	71	77	8	70-130	30
trans-1,3-Dichloropropene	5	ug/L	86	68*	24	70-130	30

Minnesota Department Of Health - Environmental Laboratory

Final Report - Client Copy - Report Of Analytical Results

Program: PL
Program Name: MPCA-32 METRO MERLA-SF
Request Number: 325815

Date Received: 02-MAY-2008
Date Generated: 19-MAY-2008
Request Page: 29 of 30

Samples: 200810159 - 200810163

Date Reported: 19-MAY-2008

Site ID	Project Name	Sampled By
-	REILLY TAR VOC	ANDREW J TARARA

Quality Control Batch ID: 20080513.11 AN:468

Laboratory Control Samples

	Spike Level	Units	Spike %Rec	Dup %Rec	RPD	%Rec Req	RPD Req
Ethylbenzene	5	ug/L	101	103	2	70-130	30
Ethyl ether	5	ug/L	100	102	2	70-130	30
Hexachlorobutadiene	5	ug/L	89	87	3	70-130	30
Isopropylbenzene	5	ug/L	87	86	1	70-130	30
p-Isopropyltoluene	5	ug/L	79	79	0	70-130	30
Methylene chloride	5	ug/L	96	97	1	70-130	30
Methyl ethyl ketone (MEK)	5	ug/L	73	83	13	70-130	30
Methyl isobutyl ketone (MIBK)	5	ug/L	82	88	7	70-130	30
Methyl tertiary butyl ether (M'	5	ug/L	94	97	3	70-130	30
Naphthalene	5	ug/L	65*	68*	5	70-130	30
n-Propylbenzene	5	ug/L	86	85	1	70-130	30
Styrene	5	ug/L	87	87	0	70-130	30
1,1,1,2-Tetrachloroethane	5	ug/L	104	102	1	70-130	30
1,1,2,2-Tetrachloroethane	5	ug/L	100	101	1	70-130	30
Tetrachloroethene	5	ug/L	99	98	2	70-130	30
Tetrahydrofuran (THF)	5	ug/L	70	80	14	70-130	30
Toluene	5	ug/L	100	97	4	70-130	30
1,2,3-Trichlorobenzene	5	ug/L	80	82	2	70-130	30
1,2,4-Trichlorobenzene	5	ug/L	80	81	1	70-130	30
1,1,1-Trichloroethane	5	ug/L	98	102	4	70-130	30
1,1,2-Trichloroethane	5	ug/L	103	94	9	70-130	30
Trichloroethene (TCE)	5	ug/L	102	101	2	70-130	30
Trichlorofluoromethane	5	ug/L	101	104	3	70-130	30
1,2,3-Trichloropropane	5	ug/L	99	101	2	70-130	30
1,1,2-Trichlorotrifluoroethane	5	ug/L	102	97	5	70-130	30
1,2,4-Trimethylbenzene	5	ug/L	86	86	1	70-130	30
1,3,5-Trimethylbenzene	5	ug/L	85	84	1	70-130	30
Vinyl chloride	5	ug/L	119	105	12	70-130	30

Minnesota Department Of Health - Environmental Laboratory

Final Report - Client Copy - Report Of Analytical Results

Program: PL
Program Name: MPCA-32 METRO MERLA-SF
Request Number: 325815

Date Received: 02-MAY-2008
Date Generated: 19-MAY-2008
Request Page: 30 of 30

Samples: 200810159 - 200810163

Date Reported: 19-MAY-2008

Site ID	Project Name	Sampled By
-	REILLY TAR VOC	ANDREW J TARARA

Quality Control Batch ID: 20080513.11 AN:468

Laboratory Control Samples

	Spike Level	Units	Spike %Rec	Dup %Rec	RPD	%Rec Req	RPD Req
o-Xylene	5	ug/L	94	94	0	70-130	30
p&m-Xylene	5	ug/L	89	89	1	70-130	30

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Minnesota Department of Health
Chemical Laboratory
717Delaware Street S.E.
Minneapolis, Minnesota 55440

Public Health Laboratory

MDH Chain of Custody

MDH 1000 № 21773

Client/Agency City of St Louis Park

Project Name Reilly

Site ID

Program Code (2 letters) PL

Contact Name Nile Fellows (MNPCA)

Contact Phone # 651-296-7299

Report to MPCA

Potential Hazard: Yes/No/Unknown (Circle One)

If Yes: Chemical/Biological/Other_____(Circle One)

Standard/Civil/Criminal Chain of Custody (Circle One)

Sampled By (Print) Miako Ushio

Affiliation ENSR Corporation

Sampler Signature Miako Ushio

Phone (952) 924-0177

ORIGINAL

Item #	Field ID	Sample Source/Point	Collection Date MM/DD/YYYY	Time (24 Hour Clock)	MDH Sample Number (Lab Use Only)	Matrix	General (None)	Nutrient (H2SO4)	Metals (HNO3)	VOC	Semivol	DRO	GRO
1	20811238	W24-050508	05/05/2008	1510		GW				3			
2	239	W23-050508	↓	1115		↓				↓			
3	240	W105-050508	↓	1200		↓				↓			
4	241	W33R-050508	↓	1130		↓				↓			
5	242	SLP10-050508	↓	1340		↓				↓			
6	243	W412-050608	05/06/08	1630		↓				↓			
7	244	W411-050608	↓	1040		↓				↓			
8	245	W133-050608	↓	1135		↓				↓			
9	246	W122-050608	↓	1535		↓				↓			
10	247	trip blank											

Number of Contai

SAMPLER COMMENTS:

RECEIVING COMMENTS

LAB TEMP 2° C

SEAL INTACT: YES / NO

ITEM NO.	RELINQUISHED BY/AFFIALIATION		TIME	DATE	ACCEPTED BY/AFFIALIATION	TIME	DATE
	[illegible]	ENSR	1800	5/7/08			
	N. Fellows	MPCA	9:30	5/9/08	[illegible]	10:07	5-9-08

White Lab Copy Yellow Client Copy Pink Submitter Copy

MINNESOTA MDH DEPARTMENT OF HEALTH

Protecting, maintaining and improving the health of all Minnesotans

Report Date: 06-JUN-2008

Client Name: MPCA-GW & SW
Project Code: PL
Project Name: MPCA-32 METRO MERLA-SF

Samples: 200811238 — 200811247

Report To: Bill Scruton
MPCA-GW & SW
520 Lafayette Rd.
St. Paul, MN 55155

The MDH Public Health Laboratory performs chemical, bacteriological and radiological analyses of environmental samples including water, waste water, sediment, air, soil and hazardous material. The laboratory provides testing services in accordance with standard operating procedures referencing approved methodology and defined in Standard Methods for the Examination of Water and Wastewater, Test Methods for Evaluating Solid Waster, Physical/Chemical Methods:EPA SW-846, and 40 Code of Federal Regulation (CFR) parts 136, 141, and 261. In cases where analytes of interest do not have corresponding EPA approved methodology, the MDH Public Health Laboratory uses in-house methods that have undergone rigorous validation and documentation.

The results within this report are in compliance with the terms and conditions stated in the standard operation procedures, reference methodologies, and quality assurance project plan; unless otherwise narrated in the attached report.

Release of the data contained in this report has been authorized by laboratory management and is verified with the following signature affirmation. Thank you for using the MDH Public Health Laboratory. If you have any questions regarding this report, please call us at 651.201.5300.

Sincerely,

Suzanne Skorich
Environmental Laboratory, Quality Assurance Officer

Minnesota Department Of Health - Environmental Laboratory

Final Report - Client Copy - Report Of Analytical Results

Program: PL
Program Name: MPCA-32 METRO MERLA-SF
Request Number: 326353

Date Received: 09-MAY-2008
Date Generated: 06-JUN-2008
Request Page: 1 of 59

Samples: 200811238 - 200811247

Date Reported: 06-JUN-2008

Site ID	Project Name	Sampled By
-	REILLY	MIAKO USHIO

Sample No: 200811238

Receiving Comments: -

Coll Date	Coll Time	Field No	Sampling Point
05-MAY-2008	1510	20811238	W24-050508

Trip Blank	Field Blank
200811247	-

********** SAMPLE RESULTS **********

Unit: ORGANIC CHEMISTRY Reviewed By PDS on 06-JUN-08

Note: Positive Organic Results are indicated by BOLD.

	Result Codes	Result	Rept Level	Units	Analysis Date
468 VOCs in Water by GC/MS -EPA 524.2					
4-Bromofluorobenzene (surrogate)		97	70-130	% Recovery	13-MAY-08 21:38
Dibromofluoromethane (surrogate)		99	70-130	% Recovery	13-MAY-08 21:38
1,2-Dichlorobenzene-D4 (surrogate)		102	70-130	% Recovery	13-MAY-08 21:38
1,2-Dichloroethane-D4 (surrogate)		102	70-130	% Recovery	13-MAY-08 21:38
Toluene-D8 (surrogate)		110	70-130	% Recovery	13-MAY-08 21:38
Acetone	QR <	20	20	ug/L	13-MAY-08 21:38
Allyl chloride	<	0.5	0.5	ug/L	13-MAY-08 21:38
Benzene		0.4	0.2	ug/L	13-MAY-08 21:38
Bromobenzene	<	0.2	0.2	ug/L	13-MAY-08 21:38
Bromochloromethane	<	0.5	0.5	ug/L	13-MAY-08 21:38
Bromodichloromethane	<	0.2	0.2	ug/L	13-MAY-08 21:38
Bromoform	<	0.5	0.5	ug/L	13-MAY-08 21:38
Bromomethane	<	1.0	1.0	ug/L	13-MAY-08 21:38
n-Butylbenzene	<	0.5	0.5	ug/L	13-MAY-08 21:38
sec-Butylbenzene	<	0.5	0.5	ug/L	13-MAY-08 21:38
tert-Butylbenzene	<	0.5	0.5	ug/L	13-MAY-08 21:38
Carbon tetrachloride	<	0.2	0.2	ug/L	13-MAY-08 21:38
Chlorobenzene	<	0.2	0.2	ug/L	13-MAY-08 21:38
Chlorodibromomethane	<	0.5	0.5	ug/L	13-MAY-08 21:38
Chloroethane	<	0.5	0.5	ug/L	13-MAY-08 21:38
Chloroform	<	0.1	0.1	ug/L	13-MAY-08 21:38
Chloromethane	<	1.0	1.0	ug/L	13-MAY-08 21:38
2-Chlorotoluene	<	0.5	0.5	ug/L	13-MAY-08 21:38
4-Chlorotoluene	<	0.5	0.5	ug/L	13-MAY-08 21:38
1,2-Dibromo-3-chloropropane (DBCP)	<	2.0	2.0	ug/L	13-MAY-08 21:38
1,2-Dibromoethane (EDB)	<	0.5	0.5	ug/L	13-MAY-08 21:38

Minnesota Department Of Health - Environmental Laboratory

Final Report - Client Copy - Report Of Analytical Results

Program: PL
Program Name: MPCA-32 METRO MERLA-SF
Request Number: 326353

Date Received: 09-MAY-2008
Date Generated: 06-JUN-2008
Request Page: 2 of 59

Samples: 200811238 - 200811247

Date Reported: 06-JUN-2008

Site ID	Project Name	Sampled By
-	REILLY	MIAKO USHIO

Sample No: 200811238

Receiving Comments: -

Coll Date	Coll Time	Field No	Sampling Point
05-MAY-2008	1510	20811238	W24-050508

Trip Blank	Field Blank
200811247	-

********** SAMPLE RESULTS **********

Unit: ORGANIC CHEMISTRY Reviewed By PDS on 06-JUN-08

Note: Positive Organic Results are indicated by BOLD.

	Result Codes	Result	Rept Level	Units	Analysis Date
468 VOCs in Water by GC/MS -EPA 524.2					
Dibromomethane	<	0.5	0.5	ug/L	13-MAY-08 21:
1,2-Dichlorobenzene	<	0.2	0.2	ug/L	13-MAY-08 21:
1,3-Dichlorobenzene	<	0.2	0.2	ug/L	13-MAY-08 21:
1,4-Dichlorobenzene	<	0.2	0.2	ug/L	13-MAY-08 21:
Dichlorodifluoromethane	<	1.0	1.0	ug/L	13-MAY-08 21:
1,1-Dichloroethane		**0.6**	**0.2**	**ug/L**	**13-MAY-08 21:**
1,2-Dichloroethane	<	0.2	0.2	ug/L	13-MAY-08 21:
1,1-Dichloroethene	<	0.5	0.5	ug/L	13-MAY-08 21:
cis-1,2-Dichloroethene		**7.5**	**0.2**	**ug/L**	**13-MAY-08 21:**
trans-1,2-Dichloroethene		**0.5**	**0.1**	**ug/L**	**13-MAY-08 21:**
Dichlorofluoromethane	<	0.5	0.5	ug/L	13-MAY-08 21:
1,2-Dichloropropane	<	0.2	0.2	ug/L	13-MAY-08 21:
1,3-Dichloropropane	<	0.2	0.2	ug/L	13-MAY-08 21:
2,2-Dichloropropane	<	0.5	0.5	ug/L	13-MAY-08 21:3
1,1-Dichloropropene	<	0.2	0.2	ug/L	13-MAY-08 21:
cis-1,3-Dichloropropene	<	0.2	0.2	ug/L	13-MAY-08 21:
trans-1,3-Dichloropropene	QR <	0.2	0.2	ug/L	13-MAY-08 21:3
Ethylbenzene	<	0.5	0.5	ug/L	13-MAY-08 21:
Ethyl ether	<	2.0	2.0	ug/L	13-MAY-08 21:
Hexachlorobutadiene	<	1.0	1.0	ug/L	13-MAY-08 21:3
Isopropylbenzene	<	0.5	0.5	ug/L	13-MAY-08 21:3
p-Isopropyltoluene	<	0.5	0.5	ug/L	13-MAY-08 21:
Methylene chloride	<	0.5	0.5	ug/L	13-MAY-08 21:
Methyl ethyl ketone (MEK)	<	10	10	ug/L	13-MAY-08 21:3
Methyl isobutyl ketone (MIBK)	<	5.0	5.0	ug/L	13-MAY-08 21:
Methyl tertiary butyl ether (MTBE)	<	2.0	2.0	ug/L	13-MAY-08 21:

Minnesota Department Of Health - Environmental Laboratory

Final Report - Client Copy - Report Of Analytical Results

Program: PL
Program Name: MPCA-32 METRO MERLA-SF
Request Number: 326353

Date Received: 09-MAY-2008
Date Generated: 06-JUN-2008
Request Page: 3 of 59

Samples: 200811238 - 200811247

Date Reported: 06-JUN-2008

Site ID	Project Name	Sampled By
-	REILLY	MIAKO USHIO

Sample No: 200811238

Receiving Comments: -

Coll Date	Coll Time	Field No	Sampling Point
05-MAY-2008	1510	20811238	W24-050508

Trip Blank	Field Blank
200811247	-

********** SAMPLE RESULTS **********

Unit: ORGANIC CHEMISTRY Reviewed By PDS on 06-JUN-08

Note: Positive Organic Results are indicated by BOLD.

	Result Codes	Result	Rept Level	Units	Analysis Date
468 VOCs in Water by GC/MS -EPA 524.2					
Naphthalene	QR <	1.0	1.0	ug/L	13-MAY-08 21:38
n-Propylbenzene	<	0.5	0.5	ug/L	13-MAY-08 21:38
Styrene	<	0.5	0.5	ug/L	13-MAY-08 21:38
1,1,1,2-Tetrachloroethane	<	0.2	0.2	ug/L	13-MAY-08 21:38
1,1,2,2-Tetrachloroethane	<	0.2	0.2	ug/L	13-MAY-08 21:38
Tetrachloroethene	<	0.2	0.2	ug/L	13-MAY-08 21:38
Tetrahydrofuran (THF)	QR <	10	10	ug/L	13-MAY-08 21:38
Toluene	<	0.5	0.5	ug/L	13-MAY-08 21:38
1,2,3-Trichlorobenzene	<	1.0	1.0	ug/L	13-MAY-08 21:38
1,2,4-Trichlorobenzene	<	0.5	0.5	ug/L	13-MAY-08 21:38
1,1,1-Trichloroethane	<	0.2	0.2	ug/L	13-MAY-08 21:38
1,1,2-Trichloroethane	<	0.2	0.2	ug/L	13-MAY-08 21:38
Trichloroethene (TCE)		**0.3**	**0.1**	**ug/L**	**13-MAY-08 21:38**
Trichlorofluoromethane	<	0.5	0.5	ug/L	13-MAY-08 21:38
1,2,3-Trichloropropane	<	0.5	0.5	ug/L	13-MAY-08 21:38
1,1,2-Trichlorotrifluoroethane	<	0.2	0.2	ug/L	13-MAY-08 21:38
1,2,4-Trimethylbenzene	<	0.5	0.5	ug/L	13-MAY-08 21:38
1,3,5-Trimethylbenzene	<	0.5	0.5	ug/L	13-MAY-08 21:38
Vinyl chloride		**1.4**	**0.2**	**ug/L**	**13-MAY-08 21:38**
o-Xylene	<	0.2	0.2	ug/L	13-MAY-08 21:38
p&m-Xylene	<	0.3	0.3	ug/L	13-MAY-08 21:38

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Program: PL
Program Name: MPCA-32 METRO MERLA-SF
Request Number: 326353

Date Received: 09-MAY-2008
Date Generated: 06-JUN-2008
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Samples: 200811238 - 200811247

Date Reported: 06-JUN-2008

Site ID	Project Name	Sampled By
-	REILLY	MIAKO USHIO

Sample No: 200811239

Receiving Comments: The time listed on the bottle is "12:55"

Coll Date	Coll Time	Field No	Sampling Point
05-MAY-2008	1115	20811239	W23-050508

Trip Blank	Field Blank
200811247	-

********** SAMPLE RESULTS **********

Unit: ORGANIC CHEMISTRY Reviewed By PDS on 06-JUN-08

Note: Positive Organic Results are indicated by BOLD.

	Result Codes	Result	Rept Level	Units	Analysis Date
468 VOCs in Water by GC/MS -EPA 524.2					
4-Bromofluorobenzene (surrogate)		97	70-130	% Recovery	13-MAY-08 23:
Dibromofluoromethane (surrogate)		99	70-130	% Recovery	13-MAY-08 23:
1,2-Dichlorobenzene-D4 (surrogate)		107	70-130	% Recovery	13-MAY-08 23
1,2-Dichloroethane-D4 (surrogate)		102	70-130	% Recovery	13-MAY-08 23:
Toluene-D8 (surrogate)		109	70-130	% Recovery	13-MAY-08 23:
Acetone	QR <	20	20	ug/L	13-MAY-08 23
Allyl chloride	<	0.5	0.5	ug/L	13-MAY-08 23
Benzene		**1.2**	**0.2**	**ug/L**	**13-MAY-08 23:**
Bromobenzene	<	0.2	0.2	ug/L	13-MAY-08 23
Bromochloromethane	<	0.5	0.5	ug/L	13-MAY-08 23
Bromodichloromethane	<	0.2	0.2	ug/L	13-MAY-08 23:
Bromoform	<	0.5	0.5	ug/L	13-MAY-08 23:
Bromomethane	<	1.0	1.0	ug/L	13-MAY-08 23:
n-Butylbenzene	<	0.5	0.5	ug/L	13-MAY-08 23:
sec-Butylbenzene	<	0.5	0.5	ug/L	13-MAY-08 23:
tert-Butylbenzene	<	0.5	0.5	ug/L	13-MAY-08 23:
Carbon tetrachloride	<	0.2	0.2	ug/L	13-MAY-08 23:
Chlorobenzene	<	0.2	0.2	ug/L	13-MAY-08 23:
Chlorodibromomethane	<	0.5	0.5	ug/L	13-MAY-08 23
Chloroethane	<	0.5	0.5	ug/L	13-MAY-08 23:
Chloroform	<	0.1	0.1	ug/L	13-MAY-08 23:
Chloromethane	<	1.0	1.0	ug/L	13-MAY-08 23:
2-Chlorotoluene	<	0.5	0.5	ug/L	13-MAY-08 23:
4-Chlorotoluene	<	0.5	0.5	ug/L	13-MAY-08 23:
1,2-Dibromo-3-chloropropane (DBCP)	<	2.0	2.0	ug/L	13-MAY-08 23:

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Program: PL
Program Name: MPCA-32 METRO MERLA-SF
Request Number: 326353

Date Received: 09-MAY-2008
Date Generated: 06-JUN-2008
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Samples: 200811238 - 200811247

Date Reported: 06-JUN-2008

Site ID	Project Name	Sampled By
-	REILLY	MIAKO USHIO

Sample No: 200811239

Receiving Comments: The time listed on the bottle is "12:55"

Coll Date	Coll Time	Field No	Sampling Point
05-MAY-2008	1115	20811239	W23-050508

Trip Blank	Field Blank
200811247	-

********** SAMPLE RESULTS **********

Unit: ORGANIC CHEMISTRY Reviewed By PDS on 06-JUN-08

Note: Positive Organic Results are indicated by BOLD.

	Result Codes	Result	Rept Level	Units	Analysis Date
468 VOCs in Water by GC/MS -EPA 524.2					
1,2-Dibromoethane (EDB)	<	0.5	0.5	ug/L	13-MAY-08 23:33
Dibromomethane	<	0.5	0.5	ug/L	13-MAY-08 23:33
1,2-Dichlorobenzene	<	0.2	0.2	ug/L	13-MAY-08 23:33
1,3-Dichlorobenzene	<	0.2	0.2	ug/L	13-MAY-08 23:33
1,4-Dichlorobenzene	<	0.2	0.2	ug/L	13-MAY-08 23:33
Dichlorodifluoromethane	J	**0.7**	**1.0**	**ug/L**	**13-MAY-08 23:33**
1,1-Dichloroethane		**0.9**	**0.2**	**ug/L**	**13-MAY-08 23:33**
1,2-Dichloroethane		**0.3**	**0.2**	**ug/L**	**13-MAY-08 23:33**
1,1-Dichloroethene	J	**0.4**	**0.5**	**ug/L**	**13-MAY-08 23:33**
cis-1,2-Dichloroethene		**40**	**0.2**	**ug/L**	**13-MAY-08 23:33**
trans-1,2-Dichloroethene		**1.9**	**0.1**	**ug/L**	**13-MAY-08 23:33**
Dichlorofluoromethane		**1.6**	**0.5**	**ug/L**	**13-MAY-08 23:33**
1,2-Dichloropropane	<	0.2	0.2	ug/L	13-MAY-08 23:33
1,3-Dichloropropane	<	0.2	0.2	ug/L	13-MAY-08 23:33
2,2-Dichloropropane	<	0.5	0.5	ug/L	13-MAY-08 23:33
1,1-Dichloropropene	<	0.2	0.2	ug/L	13-MAY-08 23:33
cis-1,3-Dichloropropene	<	0.2	0.2	ug/L	13-MAY-08 23:33
trans-1,3-Dichloropropene	QR <	0.2	0.2	ug/L	13-MAY-08 23:33
Ethylbenzene	<	0.5	0.5	ug/L	13-MAY-08 23:33
Ethyl ether	<	2.0	2.0	ug/L	13-MAY-08 23:33
Hexachlorobutadiene	<	1.0	1.0	ug/L	13-MAY-08 23:33
Isopropylbenzene	<	0.5	0.5	ug/L	13-MAY-08 23:33
p-Isopropyltoluene	<	0.5	0.5	ug/L	13-MAY-08 23:33
Methylene chloride	<	0.5	0.5	ug/L	13-MAY-08 23:33
Methyl ethyl ketone (MEK)	<	10	10	ug/L	13-MAY-08 23:33

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Program: PL
Program Name: MPCA-32 METRO MERLA-SF
Request Number: 326353

Date Received: 09-MAY-2008
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Samples: 200811238 - 200811247

Date Reported: 06-JUN-2008

Site ID	Project Name	Sampled By
-	REILLY	MIAKO USHIO

Sample No: 200811239

Receiving Comments: The time listed on the bottle is "12:55"

Coll Date	Coll Time	Field No	Sampling Point
05-MAY-2008	1115	20811239	W23-050508

Trip Blank	Field Blank
200811247	-

********** SAMPLE RESULTS **********

Unit: ORGANIC CHEMISTRY Reviewed By PDS on 06-JUN-08

Note: Positive Organic Results are indicated by BOLD.

	Result Codes	Result	Rept Level	Units	Analysis Date
468 VOCs in Water by GC/MS -EPA 524.2					
Methyl isobutyl ketone (MIBK)	<	5.0	5.0	ug/L	13-MAY-08 23:3
Methyl tertiary butyl ether (MTBE)	<	2.0	2.0	ug/L	13-MAY-08 23:7
Naphthalene	QR <	1.0	1.0	ug/L	13-MAY-08 23:
n-Propylbenzene	<	0.5	0.5	ug/L	13-MAY-08 23:
Styrene	<	0.5	0.5	ug/L	13-MAY-08 23:
1,1,1,2-Tetrachloroethane	<	0.2	0.2	ug/L	13-MAY-08 23:
1,1,2,2-Tetrachloroethane	<	0.2	0.2	ug/L	13-MAY-08 23:
Tetrachloroethene	<	0.2	0.2	ug/L	13-MAY-08 23:3
Tetrahydrofuran (THF)	<	10	10	ug/L	13-MAY-08 23:
Toluene	<	0.5	0.5	ug/L	13-MAY-08 23:
1,2,3-Trichlorobenzene	<	1.0	1.0	ug/L	13-MAY-08 23:3
1,2,4-Trichlorobenzene	<	0.5	0.5	ug/L	13-MAY-08 23:3
1,1,1-Trichloroethane	<	0.2	0.2	ug/L	13-MAY-08 23:
1,1,2-Trichloroethane	<	0.2	0.2	ug/L	13-MAY-08 23:3
Trichloroethene (TCE)		**0.9**	**0.1**	**ug/L**	**13-MAY-08 23:3**
Trichlorofluoromethane	<	0.5	0.5	ug/L	13-MAY-08 23:3
1,2,3-Trichloropropane	<	0.5	0.5	ug/L	13-MAY-08 23:3
1,1,2-Trichlorotrifluoroethane	<	0.2	0.2	ug/L	13-MAY-08 23:3
1,2,4-Trimethylbenzene	<	0.5	0.5	ug/L	13-MAY-08 23:3
1,3,5-Trimethylbenzene	<	0.5	0.5	ug/L	13-MAY-08 23:3
Vinyl chloride		**3.8**	**0.2**	**ug/L**	**13-MAY-08 23:3**
o-Xylene	<	0.2	0.2	ug/L	13-MAY-08 23:3
p&m-Xylene	<	0.3	0.3	ug/L	13-MAY-08 23:3

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Program: PL
Program Name: MPCA-32 METRO MERLA-SF
Request Number: 326353

Date Received: 09-MAY-2008
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Samples: 200811238 - 200811247

Date Reported: 06-JUN-2008

Site ID	Project Name	Sampled By
-	REILLY	MIAKO USHIO

Sample No: 200811240

Receiving Comments: The time listed on the bottle is "13:00"

Coll Date	Coll Time	Field No	Sampling Point
05-MAY-2008	1200	20811240	W105-050508

Trip Blank	Field Blank
200811247	-

********** SAMPLE RESULTS **********

Unit: ORGANIC CHEMISTRY Reviewed By PDS on 06-JUN-08

Note: Positive Organic Results are indicated by BOLD.

	Result Codes	Result	Rept Level	Units	Analysis Date
1468 VOCs in Water by GC/MS -EPA 524.2					
4-Bromofluorobenzene (surrogate)		98	70-130	% Recovery	14-MAY-08 00:02
Dibromofluoromethane (surrogate)		95	70-130	% Recovery	14-MAY-08 00:02
1,2-Dichlorobenzene-D4 (surrogate)		107	70-130	% Recovery	14-MAY-08 00:02
1,2-Dichloroethane-D4 (surrogate)		100	70-130	% Recovery	14-MAY-08 00:02
Toluene-D8 (surrogate)		88	70-130	% Recovery	14-MAY-08 00:02
Acetone	QR <	20	20	ug/L	14-MAY-08 00:02
Allyl chloride	<	0.5	0.5	ug/L	14-MAY-08 00:02
Benzene		**1.2**	**0.2**	**ug/L**	**14-MAY-08 00:02**
Bromobenzene	<	0.2	0.2	ug/L	14-MAY-08 00:02
Bromochloromethane	<	0.5	0.5	ug/L	14-MAY-08 00:02
Bromodichloromethane	<	0.2	0.2	ug/L	14-MAY-08 00:02
Bromoform	<	0.5	0.5	ug/L	14-MAY-08 00:02
Bromomethane	<	1.0	1.0	ug/L	14-MAY-08 00:02
n-Butylbenzene	<	0.5	0.5	ug/L	14-MAY-08 00:02
sec-Butylbenzene	<	0.5	0.5	ug/L	14-MAY-08 00:02
tert-Butylbenzene	<	0.5	0.5	ug/L	14-MAY-08 00:02
Carbon tetrachloride	<	0.2	0.2	ug/L	14-MAY-08 00:02
Chlorobenzene	<	0.2	0.2	ug/L	14-MAY-08 00:02
Chlorodibromomethane	<	0.5	0.5	ug/L	14-MAY-08 00:02
Chloroethane	<	0.5	0.5	ug/L	14-MAY-08 00:02
Chloroform	<	0.1	0.1	ug/L	14-MAY-08 00:02
Chloromethane	<	1.0	1.0	ug/L	14-MAY-08 00:02
2-Chlorotoluene	<	0.5	0.5	ug/L	14-MAY-08 00:02
4-Chlorotoluene	<	0.5	0.5	ug/L	14-MAY-08 00:02
1,2-Dibromo-3-chloropropane (DBCP)	<	2.0	2.0	ug/L	14-MAY-08 00:02

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Program: PL
Program Name: MPCA-32 METRO MERLA-SF
Request Number: 326353

Date Received: 09-MAY-2008
Date Generated: 06-JUN-2008

Samples: 200811238 - 200811247

Date Reported: 06-JUN-2008

Site ID	Project Name	Sampled By
-	REILLY	MIAKO USHIO

Sample No: 200811240

Receiving Comments: The time listed on the bottle is "13:00"

Coll Date	Coll Time	Field No	Sampling Point
05-MAY-2008	1200	20811240	W105-050508

Trip Blank	Field Blank
200811247	-

********** SAMPLE RESULTS **********

Unit: ORGANIC CHEMISTRY Reviewed By PDS on 06-JUN-08

Note: Positive Organic Results are indicated by BOLD.

	Result Codes	Result	Rept Level	Units	Analysis Date
468 VOCs in Water by GC/MS -EPA 524.2					
1,2-Dibromoethane (EDB)	<	0.5	0.5	ug/L	14-MAY-08 00:
Dibromomethane	<	0.5	0.5	ug/L	14-MAY-08 00:
1,2-Dichlorobenzene	<	0.2	0.2	ug/L	14-MAY-08 00:
1,3-Dichlorobenzene	<	0.2	0.2	ug/L	14-MAY-08 00:
1,4-Dichlorobenzene	<	0.2	0.2	ug/L	14-MAY-08 00:
Dichlorodifluoromethane	J	**0.6**	**1.0**	**ug/L**	**14-MAY-08 00:**
1,1-Dichloroethane		**0.8**	**0.2**	**ug/L**	**14-MAY-08 00:**
1,2-Dichloroethane		**0.2**	**0.2**	**ug/L**	**14-MAY-08 00:**
1,1-Dichloroethene	J	**0.3**	**0.5**	**ug/L**	**14-MAY-08 00:**
cis-1,2-Dichloroethene		**35**	**0.2**	**ug/L**	**14-MAY-08 00:**
trans-1,2-Dichloroethene		**1.6**	**0.1**	**ug/L**	**14-MAY-08 00:**
Dichlorofluoromethane		**1.4**	**0.5**	**ug/L**	**14-MAY-08 00:**
1,2-Dichloropropane	<	0.2	0.2	ug/L	14-MAY-08 00:
1,3-Dichloropropane	<	0.2	0.2	ug/L	14-MAY-08 00:
2,2-Dichloropropane	<	0.5	0.5	ug/L	14-MAY-08 00:
1,1-Dichloropropene	<	0.2	0.2	ug/L	14-MAY-08 00:
cis-1,3-Dichloropropene	<	0.2	0.2	ug/L	14-MAY-08 00:
trans-1,3-Dichloropropene	QR <	0.2	0.2	ug/L	14-MAY-08 00:
Ethylbenzene	<	0.5	0.5	ug/L	14-MAY-08 00:
Ethyl ether	<	2.0	2.0	ug/L	14-MAY-08 00:
Hexachlorobutadiene	<	1.0	1.0	ug/L	14-MAY-08 00:
Isopropylbenzene	<	0.5	0.5	ug/L	14-MAY-08 00:
p-Isopropyltoluene	<	0.5	0.5	ug/L	14-MAY-08 00:
Methylene chloride	<	0.5	0.5	ug/L	14-MAY-08 00:
Methyl ethyl ketone (MEK)	<	10	10	ug/L	14-MAY-08 00:

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Program: PL
Program Name: MPCA-32 METRO MERLA-SF
Request Number: 326353

Date Received: 09-MAY-2008
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Samples: 200811238 - 200811247

Date Reported: 06-JUN-2008

Site ID	Project Name	Sampled By
-	REILLY	MIAKO USHIO

Sample No: 200811240

Receiving Comments: The time listed on the bottle is "13:00"

Coll Date	Coll Time	Field No	Sampling Point
05-MAY-2008	1200	20811240	W105-050508

Trip Blank	Field Blank
200811247	-

********** SAMPLE RESULTS **********

Unit: ORGANIC CHEMISTRY Reviewed By PDS on 06-JUN-08

Note: Positive Organic Results are indicated by BOLD.

	Result Codes	Result	Rept Level	Units	Analysis Date
468 VOCs in Water by GC/MS -EPA 524.2					
Methyl isobutyl ketone (MIBK)	<	5.0	5.0	ug/L	14-MAY-08 00:02
Methyl tertiary butyl ether (MTBE)	<	2.0	2.0	ug/L	14-MAY-08 00:02
Naphthalene	QR <	1.0	1.0	ug/L	14-MAY-08 00:02
n-Propylbenzene	<	0.5	0.5	ug/L	14-MAY-08 00:02
Styrene	<	0.5	0.5	ug/L	14-MAY-08 00:02
1,1,1,2-Tetrachloroethane	<	0.2	0.2	ug/L	14-MAY-08 00:02
1,1,2,2-Tetrachloroethane	<	0.2	0.2	ug/L	14-MAY-08 00:02
Tetrachloroethene	<	0.2	0.2	ug/L	14-MAY-08 00:02
Tetrahydrofuran (THF)	<	10	10	ug/L	14-MAY-08 00:02
Toluene	<	0.5	0.5	ug/L	14-MAY-08 00:02
1,2,3-Trichlorobenzene	<	1.0	1.0	ug/L	14-MAY-08 00:02
1,2,4-Trichlorobenzene	<	0.5	0.5	ug/L	14-MAY-08 00:02
1,1,1-Trichloroethane	<	0.2	0.2	ug/L	14-MAY-08 00:02
1,1,2-Trichloroethane	<	0.2	0.2	ug/L	14-MAY-08 00:02
Trichloroethene (TCE)		**0.8**	**0.1**	**ug/L**	**14-MAY-08 00:02**
Trichlorofluoromethane	<	0.5	0.5	ug/L	14-MAY-08 00:02
1,2,3-Trichloropropane	<	0.5	0.5	ug/L	14-MAY-08 00:02
1,1,2-Trichlorotrifluoroethane	<	0.2	0.2	ug/L	14-MAY-08 00:02
1,2,4-Trimethylbenzene	<	0.5	0.5	ug/L	14-MAY-08 00:02
1,3,5-Trimethylbenzene	<	0.5	0.5	ug/L	14-MAY-08 00:02
Vinyl chloride		**6.6**	**0.2**	**ug/L**	**14-MAY-08 00:02**
o-Xylene	<	0.2	0.2	ug/L	14-MAY-08 00:02
p&m-Xylene	<	0.3	0.3	ug/L	14-MAY-08 00:02

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Samples: 200811238 - 200811247

Date Reported: 06-JUN-2008

Site ID	Project Name	Sampled By
-	REILLY	MIAKO USHIO

Sample No: 200811241

Receiving Comments: -

Coll Date	Coll Time	Field No	Sampling Point
05-MAY-2008	1130	20811241	W33R-050508

Trip Blank	Field Blank
200811247	-

********** SAMPLE RESULTS **********

Unit: ORGANIC CHEMISTRY Reviewed By PDS on 06-JUN-08

Note: Positive Organic Results are indicated by BOLD.

	Result Codes	Result	Rept Level	Units	Analysis Date
468 VOCs in Water by GC/MS -EPA 524.2					
4-Bromofluorobenzene (surrogate)		102	70-130	% Recovery	14-MAY-08 00:
Dibromofluoromethane (surrogate)		100	70-130	% Recovery	14-MAY-08 00:
1,2-Dichlorobenzene-D4 (surrogate)		103	70-130	% Recovery	14-MAY-08 00:
1,2-Dichloroethane-D4 (surrogate)		104	70-130	% Recovery	14-MAY-08 00:
Toluene-D8 (surrogate)		109	70-130	% Recovery	14-MAY-08 00:
Acetone	QR <	20	20	ug/L	14-MAY-08 00:
Allyl chloride	<	0.5	0.5	ug/L	14-MAY-08 00:
Benzene	<	0.2	0.2	ug/L	14-MAY-08 00:
Bromobenzene	<	0.2	0.2	ug/L	14-MAY-08 00:
Bromochloromethane	<	0.5	0.5	ug/L	14-MAY-08 00:
Bromodichloromethane	<	0.2	0.2	ug/L	14-MAY-08 00:
Bromoform	<	0.5	0.5	ug/L	14-MAY-08 00:
Bromomethane	<	1.0	1.0	ug/L	14-MAY-08 00:
n-Butylbenzene	<	0.5	0.5	ug/L	14-MAY-08 00:
sec-Butylbenzene	<	0.5	0.5	ug/L	14-MAY-08 00:
tert-Butylbenzene	<	0.5	0.5	ug/L	14-MAY-08 00:
Carbon tetrachloride	<	0.2	0.2	ug/L	14-MAY-08 00:
Chlorobenzene	<	0.2	0.2	ug/L	14-MAY-08 00:
Chlorodibromomethane	<	0.5	0.5	ug/L	14-MAY-08 00:
Chloroethane	<	0.5	0.5	ug/L	14-MAY-08 00:
Chloroform	<	0.1	0.1	ug/L	14-MAY-08 00:
Chloromethane	<	1.0	1.0	ug/L	14-MAY-08 00:
2-Chlorotoluene	<	0.5	0.5	ug/L	14-MAY-08 00:
4-Chlorotoluene	<	0.5	0.5	ug/L	14-MAY-08 00:
1,2-Dibromo-3-chloropropane (DBCP)	<	2.0	2.0	ug/L	14-MAY-08 00:
1,2-Dibromoethane (EDB)	<	0.5	0.5	ug/L	14-MAY-08 00:

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Samples: 200811238 - 200811247

Date Reported: 06-JUN-2008

Site ID	Project Name	Sampled By
-	REILLY	MIAKO USHIO

Sample No: 200811241

Receiving Comments: -

Coll Date	Coll Time	Field No	Sampling Point
05-MAY-2008	1130	20811241	W33R-050508

Trip Blank	Field Blank
200811247	-

********** SAMPLE RESULTS **********

Unit: ORGANIC CHEMISTRY Reviewed By PDS on 06-JUN-08

Note: Positive Organic Results are indicated by BOLD.

	Result Codes	Result	Rept Level	Units	Analysis Date
468 VOCs in Water by GC/MS -EPA 524.2					
Dibromomethane	<	0.5	0.5	ug/L	14-MAY-08 00:30
1,2-Dichlorobenzene	<	0.2	0.2	ug/L	14-MAY-08 00:30
1,3-Dichlorobenzene	<	0.2	0.2	ug/L	14-MAY-08 00:30
1,4-Dichlorobenzene	<	0.2	0.2	ug/L	14-MAY-08 00:30
Dichlorodifluoromethane	<	1.0	1.0	ug/L	14-MAY-08 00:30
1,1-Dichloroethane	<	0.2	0.2	ug/L	14-MAY-08 00:30
1,2-Dichloroethane	<	0.2	0.2	ug/L	14-MAY-08 00:30
1,1-Dichloroethene	<	0.5	0.5	ug/L	14-MAY-08 00:30
cis-1,2-Dichloroethene		**1.1**	**0.2**	**ug/L**	**14-MAY-08 00:30**
trans-1,2-Dichloroethene	J	**0.09**	**0.1**	**ug/L**	**14-MAY-08 00:30**
Dichlorofluoromethane	<	0.5	0.5	ug/L	14-MAY-08 00:30
1,2-Dichloropropane	<	0.2	0.2	ug/L	14-MAY-08 00:30
1,3-Dichloropropane	<	0.2	0.2	ug/L	14-MAY-08 00:30
2,2-Dichloropropane	<	0.5	0.5	ug/L	14-MAY-08 00:30
1,1-Dichloropropene	<	0.2	0.2	ug/L	14-MAY-08 00:30
cis-1,3-Dichloropropene	<	0.2	0.2	ug/L	14-MAY-08 00:30
trans-1,3-Dichloropropene	QR <	0.2	0.2	ug/L	14-MAY-08 00:30
Ethylbenzene	<	0.5	0.5	ug/L	14-MAY-08 00:30
Ethyl ether	<	2.0	2.0	ug/L	14-MAY-08 00:30
Hexachlorobutadiene	<	1.0	1.0	ug/L	14-MAY-08 00:30
Isopropylbenzene	<	0.5	0.5	ug/L	14-MAY-08 00:30
p-Isopropyltoluene	<	0.5	0.5	ug/L	14-MAY-08 00:30
Methylene chloride	<	0.5	0.5	ug/L	14-MAY-08 00:30
Methyl ethyl ketone (MEK)	<	10	10	ug/L	14-MAY-08 00:30
Methyl isobutyl ketone (MIBK)	<	5.0	5.0	ug/L	14-MAY-08 00:30
Methyl tertiary butyl ether (MTBE)	<	2.0	2.0	ug/L	14-MAY-08 00:30

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Program: PL
Program Name: MPCA-32 METRO MERLA-SF
Request Number: 326353

Date Received: 09-MAY-2008
Date Generated: 06-JUN-2008
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Samples: 200811238 - 200811247

Date Reported: 06-JUN-2008

Site ID	Project Name	Sampled By
-	REILLY	MIAKO USHIO

Sample No: 200811241

Receiving Comments: -

Coll Date	Coll Time	Field No	Sampling Point
05-MAY-2008	1130	20811241	W33R-050508

Trip Blank	Field Blank
200811247	-

********** SAMPLE RESULTS **********

Unit: ORGANIC CHEMISTRY Reviewed By PDS on 06-JUN-08

Note: Positive Organic Results are indicated by BOLD.

	Result Codes	Result	Rept Level	Units	Analysis Date
468 VOCs in Water by GC/MS -EPA 524.2					
Naphthalene	QR <	1.0	1.0	ug/L	14-MAY-08 00:
n-Propylbenzene	<	0.5	0.5	ug/L	14-MAY-08 00:
Styrene	<	0.5	0.5	ug/L	14-MAY-08 00:
1,1,1,2-Tetrachloroethane	<	0.2	0.2	ug/L	14-MAY-08 00:
1,1,2,2-Tetrachloroethane	<	0.2	0.2	ug/L	14-MAY-08 00:
Tetrachloroethene		**3.3**	**0.2**	**ug/L**	**14-MAY-08 00:**
Tetrahydrofuran (THF)	<	10	10	ug/L	14-MAY-08 00:
Toluene	<	0.5	0.5	ug/L	14-MAY-08 00:
1,2,3-Trichlorobenzene	<	1.0	1.0	ug/L	14-MAY-08 00:
1,2,4-Trichlorobenzene	<	0.5	0.5	ug/L	14-MAY-08 00:
1,1,1-Trichloroethane	<	0.2	0.2	ug/L	14-MAY-08 00:
1,1,2-Trichloroethane	<	0.2	0.2	ug/L	14-MAY-08 00:
Trichloroethene (TCE)		**1.3**	**0.1**	**ug/L**	**14-MAY-08 00:**
Trichlorofluoromethane	<	0.5	0.5	ug/L	14-MAY-08 00:
1,2,3-Trichloropropane	<	0.5	0.5	ug/L	14-MAY-08 00:
1,1,2-Trichlorotrifluoroethane	<	0.2	0.2	ug/L	14-MAY-08 00:
1,2,4-Trimethylbenzene	<	0.5	0.5	ug/L	14-MAY-08 00:
1,3,5-Trimethylbenzene	<	0.5	0.5	ug/L	14-MAY-08 00:
Vinyl chloride	<	0.2	0.2	ug/L	14-MAY-08 00:
o-Xylene	<	0.2	0.2	ug/L	14-MAY-08 00:
p&m-Xylene	<	0.3	0.3	ug/L	14-MAY-08 00:

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Final Report - Client Copy - Report Of Analytical Results

Program: PL
Program Name: MPCA-32 METRO MERLA-SF
Request Number: 326353

Date Received: 09-MAY-2008
Date Generated: 06-JUN-2008
Request Page: 13 of 59

Samples: 200811238 - 200811247

Date Reported: 06-JUN-2008

Site ID	Project Name	Sampled By
-	REILLY	MIAKO USHIO

Sample No: 200811242

Receiving Comments: -

Coll Date	Coll Time	Field No	Sampling Point
05-MAY-2008	1340	20811242	SLPIO-050508

Trip Blank	Field Blank
200811247	-

********** SAMPLE RESULTS **********

Unit: ORGANIC CHEMISTRY Reviewed By PDS on 06-JUN-08

Note: Positive Organic Results are indicated by BOLD.

	Result Codes	Result	Rept Level	Units	Analysis Date
468 VOCs in Water by GC/MS -EPA 524.2					
4-Bromofluorobenzene (surrogate)		99	70-130	% Recovery	14-MAY-08 00:59
Dibromofluoromethane (surrogate)		98	70-130	% Recovery	14-MAY-08 00:59
1,2-Dichlorobenzene-D4 (surrogate)		104	70-130	% Recovery	14-MAY-08 00:59
1,2-Dichloroethane-D4 (surrogate)		104	70-130	% Recovery	14-MAY-08 00:59
Toluene-D8 (surrogate)		108	70-130	% Recovery	14-MAY-08 00:59
Acetone	QR <	20	20	ug/L	14-MAY-08 00:59
Allyl chloride	<	0.5	0.5	ug/L	14-MAY-08 00:59
Benzene		**0.4**	**0.2**	**ug/L**	**14-MAY-08 00:59**
Bromobenzene	<	0.2	0.2	ug/L	14-MAY-08 00:59
Bromochloromethane	<	0.5	0.5	ug/L	14-MAY-08 00:59
Bromodichloromethane	<	0.2	0.2	ug/L	14-MAY-08 00:59
Bromoform	<	0.5	0.5	ug/L	14-MAY-08 00:59
Bromomethane	<	1.0	1.0	ug/L	14-MAY-08 00:59
n-Butylbenzene	<	0.5	0.5	ug/L	14-MAY-08 00:59
sec-Butylbenzene	<	0.5	0.5	ug/L	14-MAY-08 00:59
tert-Butylbenzene	<	0.5	0.5	ug/L	14-MAY-08 00:59
Carbon tetrachloride	<	0.2	0.2	ug/L	14-MAY-08 00:59
Chlorobenzene	<	0.2	0.2	ug/L	14-MAY-08 00:59
Chlorodibromomethane	<	0.5	0.5	ug/L	14-MAY-08 00:59
Chloroethane	<	0.5	0.5	ug/L	14-MAY-08 00:59
Chloroform	<	0.1	0.1	ug/L	14-MAY-08 00:59
Chloromethane	<	1.0	1.0	ug/L	14-MAY-08 00:59
2-Chlorotoluene	<	0.5	0.5	ug/L	14-MAY-08 00:59
4-Chlorotoluene	<	0.5	0.5	ug/L	14-MAY-08 00:59
1,2-Dibromo-3-chloropropane (DBCP)	<	2.0	2.0	ug/L	14-MAY-08 00:59
1,2-Dibromoethane (EDB)	<	0.5	0.5	ug/L	14-MAY-08 00:59

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Program: PL
Program Name: MPCA-32 METRO MERLA-SF
Request Number: 326353

Date Received: 09-MAY-2008
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Samples: 200811238 - 200811247

Date Reported: 06-JUN-2008

Site ID	Project Name	Sampled By
-	REILLY	MIAKO USHIO

Sample No: 200811242

Receiving Comments: -

Coll Date	Coll Time	Field No	Sampling Point
05-MAY-2008	1340	20811242	SLPIO-050508

Trip Blank	Field Blank
200811247	-

********** SAMPLE RESULTS **********

Unit: ORGANIC CHEMISTRY Reviewed By PDS on 06-JUN-08

Note: Positive Organic Results are indicated by BOLD.

	Result Codes	Result	Rept Level	Units	Analysis Date
468 VOCs in Water by GC/MS -EPA 524.2					
Dibromomethane	<	0.5	0.5	ug/L	14-MAY-08 00:5
1,2-Dichlorobenzene	<	0.2	0.2	ug/L	14-MAY-08 00:5
1,3-Dichlorobenzene	<	0.2	0.2	ug/L	14-MAY-08 00:5
1,4-Dichlorobenzene	<	0.2	0.2	ug/L	14-MAY-08 00:5
Dichlorodifluoromethane	<	1.0	1.0	ug/L	14-MAY-08 00:5
1,1-Dichloroethane	<	0.2	0.2	ug/L	14-MAY-08 00:5
1,2-Dichloroethane	<	0.2	0.2	ug/L	14-MAY-08 00:5
1,1-Dichloroethene	<	0.5	0.5	ug/L	14-MAY-08 00:5
cis-1,2-Dichloroethene		**2.0**	**0.2**	**ug/L**	**14-MAY-08 00:5**
trans-1,2-Dichloroethene		**1.1**	**0.1**	**ug/L**	**14-MAY-08 00:5**
Dichlorofluoromethane	<	0.5	0.5	ug/L	14-MAY-08 00:5
1,2-Dichloropropane	<	0.2	0.2	ug/L	14-MAY-08 00:5
1,3-Dichloropropane	<	0.2	0.2	ug/L	14-MAY-08 00:5
2,2-Dichloropropane	<	0.5	0.5	ug/L	14-MAY-08 00:5
1,1-Dichloropropene	<	0.2	0.2	ug/L	14-MAY-08 00:5
cis-1,3-Dichloropropene	<	0.2	0.2	ug/L	14-MAY-08 00:5
trans-1,3-Dichloropropene	QR <	0.2	0.2	ug/L	14-MAY-08 00:5
Ethylbenzene	<	0.5	0.5	ug/L	14-MAY-08 00:5
Ethyl ether	<	2.0	2.0	ug/L	14-MAY-08 00:5
Hexachlorobutadiene	<	1.0	1.0	ug/L	14-MAY-08 00:5
Isopropylbenzene	<	0.5	0.5	ug/L	14-MAY-08 00:5
p-Isopropyltoluene	<	0.5	0.5	ug/L	14-MAY-08 00:5
Methylene chloride	<	0.5	0.5	ug/L	14-MAY-08 00:5
Methyl ethyl ketone (MEK)	<	10	10	ug/L	14-MAY-08 00:5
Methyl isobutyl ketone (MIBK)	<	5.0	5.0	ug/L	14-MAY-08 00:5
Methyl tertiary butyl ether (MTBE)	<	2.0	2.0	ug/L	14-MAY-08 00:5

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Program: PL
Program Name: MPCA-32 METRO MERLA-SF
Request Number: 326353

Date Received: 09-MAY-2008
Date Generated: 06-JUN-2008
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Samples: 200811238 - 200811247

Date Reported: 06-JUN-2008

Site ID	Project Name	Sampled By
-	REILLY	MIAKO USHIO

Sample No: 200811242

Receiving Comments: -

Coll Date	Coll Time	Field No	Sampling Point
05-MAY-2008	1340	20811242	SLPIO-050508

Trip Blank	Field Blank
200811247	-

********** SAMPLE RESULTS **********

Unit: ORGANIC CHEMISTRY Reviewed By PDS on 06-JUN-08

Note: Positive Organic Results are indicated by BOLD.

	Result Codes	Result	Rept Level	Units	Analysis Date
468 VOCs in Water by GC/MS -EPA 524.2					
Naphthalene	QR <	1.0	1.0	ug/L	14-MAY-08 00:59
n-Propylbenzene	<	0.5	0.5	ug/L	14-MAY-08 00:59
Styrene	<	0.5	0.5	ug/L	14-MAY-08 00:59
1,1,1,2-Tetrachloroethane	<	0.2	0.2	ug/L	14-MAY-08 00:59
1,1,2,2-Tetrachloroethane	<	0.2	0.2	ug/L	14-MAY-08 00:59
Tetrachloroethene	<	0.2	0.2	ug/L	14-MAY-08 00:59
Tetrahydrofuran (THF)	<	10	10	ug/L	14-MAY-08 00:59
Toluene	<	0.5	0.5	ug/L	14-MAY-08 00:59
1,2,3-Trichlorobenzene	<	1.0	1.0	ug/L	14-MAY-08 00:59
1,2,4-Trichlorobenzene	<	0.5	0.5	ug/L	14-MAY-08 00:59
1,1,1-Trichloroethane	<	0.2	0.2	ug/L	14-MAY-08 00:59
1,1,2-Trichloroethane	<	0.2	0.2	ug/L	14-MAY-08 00:59
Trichloroethene (TCE)		**0.2**	**0.1**	**ug/L**	**14-MAY-08 00:59**
Trichlorofluoromethane	<	0.5	0.5	ug/L	14-MAY-08 00:59
1,2,3-Trichloropropane	<	0.5	0.5	ug/L	14-MAY-08 00:59
1,1,2-Trichlorotrifluoroethane	<	0.2	0.2	ug/L	14-MAY-08 00:59
1,2,4-Trimethylbenzene	<	0.5	0.5	ug/L	14-MAY-08 00:59
1,3,5-Trimethylbenzene	<	0.5	0.5	ug/L	14-MAY-08 00:59
Vinyl chloride	<	0.2	0.2	ug/L	14-MAY-08 00:59
o-Xylene	<	0.2	0.2	ug/L	14-MAY-08 00:59
p&m-Xylene	<	0.3	0.3	ug/L	14-MAY-08 00:59

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Program: PL
Program Name: MPCA-32 METRO MERLA-SF
Request Number: 326353

Date Received: 09-MAY-2008
Date Generated: 06-JUN-2008
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Samples: 200811238 - 200811247

Date Reported: 06-JUN-2008

Site ID	Project Name	Sampled By
-	REILLY	MIAKO USHIO

Sample No: 200811243

Receiving Comments: -

Coll Date	Coll Time	Field No	Sampling Point
06-MAY-2008	1630	20811243	W412-050608

Trip Blank	Field Blank
200811247	-

********** SAMPLE RESULTS **********

Unit: ORGANIC CHEMISTRY Reviewed By PDS on 06-JUN-08

Note: Positive Organic Results are indicated by BOLD.

	Result Codes	Result	Rept Level	Units	Analysis Date
468 VOCs in Water by GC/MS -EPA 524.2					
4-Bromofluorobenzene (surrogate)		99	70-130	% Recovery	14-MAY-08 08
Dibromofluoromethane (surrogate)		99	70-130	% Recovery	14-MAY-08 08:
1,2-Dichlorobenzene-D4 (surrogate)		102	70-130	% Recovery	14-MAY-08 08:
1,2-Dichloroethane-D4 (surrogate)		101	70-130	% Recovery	14-MAY-08 08
Toluene-D8 (surrogate)		105	70-130	% Recovery	14-MAY-08 08
Acetone	QR <	20	20	ug/L	14-MAY-08 08:
Allyl chloride	<	0.5	0.5	ug/L	14-MAY-08 08
Benzene	J	**0.1**	**0.2**	**ug/L**	**14-MAY-08 08**
Bromobenzene	<	0.2	0.2	ug/L	14-MAY-08 08:
Bromochloromethane	<	0.5	0.5	ug/L	14-MAY-08 08
Bromodichloromethane	<	0.2	0.2	ug/L	14-MAY-08 08:
Bromoform	<	0.5	0.5	ug/L	14-MAY-08 08:
Bromomethane	QR <	1.0	1.0	ug/L	14-MAY-08 08:
n-Butylbenzene	<	0.5	0.5	ug/L	14-MAY-08 08
sec-Butylbenzene	<	0.5	0.5	ug/L	14-MAY-08 08:
tert-Butylbenzene	<	0.5	0.5	ug/L	14-MAY-08 08:
Carbon tetrachloride	<	0.2	0.2	ug/L	14-MAY-08 08
Chlorobenzene	<	0.2	0.2	ug/L	14-MAY-08 08:
Chlorodibromomethane	<	0.5	0.5	ug/L	14-MAY-08 08:
Chloroethane	<	0.5	0.5	ug/L	14-MAY-08 08
Chloroform	<	0.1	0.1	ug/L	14-MAY-08 08:
Chloromethane	<	1.0	1.0	ug/L	14-MAY-08 08:
2-Chlorotoluene	<	0.5	0.5	ug/L	14-MAY-08 08:
4-Chlorotoluene	<	0.5	0.5	ug/L	14-MAY-08 08:
1,2-Dibromo-3-chloropropane (DBCP)	<	2.0	2.0	ug/L	14-MAY-08 08:
1,2-Dibromoethane (EDB)	<	0.5	0.5	ug/L	14-MAY-08 08:

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Program: PL
Program Name: MPCA-32 METRO MERLA-SF
Request Number: 326353

Date Received: 09-MAY-2008
Date Generated: 06-JUN-2008
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Samples: 200811238 - 200811247

Date Reported: 06-JUN-2008

Site ID	Project Name	Sampled By
-	REILLY	MIAKO USHIO

Sample No: 200811243

Receiving Comments: -

Coll Date	Coll Time	Field No	Sampling Point
06-MAY-2008	1630	20811243	W412-050608

Trip Blank	Field Blank
200811247	-

********** SAMPLE RESULTS **********

Unit: ORGANIC CHEMISTRY Reviewed By PDS on 06-JUN-08

Note: Positive Organic Results are indicated by BOLD.

	Result Codes	Result	Rept Level	Units	Analysis Date
468 VOCs in Water by GC/MS -EPA 524.2					
Dibromomethane	<	0.5	0.5	ug/L	14-MAY-08 08:37
1,2-Dichlorobenzene	<	0.2	0.2	ug/L	14-MAY-08 08:37
1,3-Dichlorobenzene	<	0.2	0.2	ug/L	14-MAY-08 08:37
1,4-Dichlorobenzene	<	0.2	0.2	ug/L	14-MAY-08 08:37
Dichlorodifluoromethane	<	1.0	1.0	ug/L	14-MAY-08 08:37
1,1-Dichloroethane	<	0.2	0.2	ug/L	14-MAY-08 08:37
1,2-Dichloroethane	<	0.2	0.2	ug/L	14-MAY-08 08:37
1,1-Dichloroethene	<	0.5	0.5	ug/L	14-MAY-08 08:37
cis-1,2-Dichloroethene		**0.6**	**0.2**	**ug/L**	**14-MAY-08 08:37**
trans-1,2-Dichloroethene	<	0.1	0.1	ug/L	14-MAY-08 08:37
Dichlorofluoromethane	J	**0.4**	**0.5**	**ug/L**	**14-MAY-08 08:37**
1,2-Dichloropropane	<	0.2	0.2	ug/L	14-MAY-08 08:37
1,3-Dichloropropane	<	0.2	0.2	ug/L	14-MAY-08 08:37
2,2-Dichloropropane	QR <	0.5	0.5	ug/L	14-MAY-08 08:37
1,1-Dichloropropene	<	0.2	0.2	ug/L	14-MAY-08 08:37
cis-1,3-Dichloropropene	<	0.2	0.2	ug/L	14-MAY-08 08:37
trans-1,3-Dichloropropene	<	0.2	0.2	ug/L	14-MAY-08 08:37
Ethylbenzene	<	0.5	0.5	ug/L	14-MAY-08 08:37
Ethyl ether	<	2.0	2.0	ug/L	14-MAY-08 08:37
Hexachlorobutadiene	<	1.0	1.0	ug/L	14-MAY-08 08:37
Isopropylbenzene	<	0.5	0.5	ug/L	14-MAY-08 08:37
p-Isopropyltoluene	<	0.5	0.5	ug/L	14-MAY-08 08:37
Methylene chloride	<	0.5	0.5	ug/L	14-MAY-08 08:37
Methyl ethyl ketone (MEK)	<	10	10	ug/L	14-MAY-08 08:37
Methyl isobutyl ketone (MIBK)	<	5.0	5.0	ug/L	14-MAY-08 08:37
Methyl tertiary butyl ether (MTBE)	<	2.0	2.0	ug/L	14-MAY-08 08:37

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Final Report - Client Copy - Report Of Analytical Results

Program: PL
Program Name: MPCA-32 METRO MERLA-SF
Request Number: 326353

Date Received: 09-MAY-2008
Date Generated: 06-JUN-2008
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Samples: 200811238 - 200811247

Date Reported: 06-JUN-2008

Site ID	Project Name	Sampled By
-	REILLY	MIAKO USHIO

Sample No: 200811243

Receiving Comments: -

Coll Date	Coll Time	Field No	Sampling Point
06-MAY-2008	1630	20811243	W412-050608

Trip Blank	Field Blank
200811247	-

********** SAMPLE RESULTS **********

Unit: ORGANIC CHEMISTRY Reviewed By PDS on 06-JUN-08

Note: Positive Organic Results are indicated by BOLD.

	Result Codes	Result	Rept Level	Units	Analysis Date
468 VOCs in Water by GC/MS -EPA 524.2					
Naphthalene	<	1.0	1.0	ug/L	14-MAY-08 08:
n-Propylbenzene	<	0.5	0.5	ug/L	14-MAY-08 08:
Styrene	<	0.5	0.5	ug/L	14-MAY-08 08:
1,1,1,2-Tetrachloroethane	<	0.2	0.2	ug/L	14-MAY-08 08:
1,1,2,2-Tetrachloroethane	<	0.2	0.2	ug/L	14-MAY-08 08:
Tetrachloroethene	<	0.2	0.2	ug/L	14-MAY-08 08:
Tetrahydrofuran (THF)	<	10	10	ug/L	14-MAY-08 08:
Toluene	<	0.5	0.5	ug/L	14-MAY-08 08:
1,2,3-Trichlorobenzene	<	1.0	1.0	ug/L	14-MAY-08 08:
1,2,4-Trichlorobenzene	<	0.5	0.5	ug/L	14-MAY-08 08:
1,1,1-Trichloroethane	<	0.2	0.2	ug/L	14-MAY-08 08:
1,1,2-Trichloroethane	<	0.2	0.2	ug/L	14-MAY-08 08:
Trichloroethene (TCE)	<	0.1	0.1	ug/L	14-MAY-08 08:
Trichlorofluoromethane	<	0.5	0.5	ug/L	14-MAY-08 08:
1,2,3-Trichloropropane	<	0.5	0.5	ug/L	14-MAY-08 08:
1,1,2-Trichlorotrifluoroethane	<	0.2	0.2	ug/L	14-MAY-08 08:
1,2,4-Trimethylbenzene	<	0.5	0.5	ug/L	14-MAY-08 08:
1,3,5-Trimethylbenzene	<	0.5	0.5	ug/L	14-MAY-08 08:
Vinyl chloride	<	0.2	0.2	ug/L	14-MAY-08 08:
o-Xylene	<	0.2	0.2	ug/L	14-MAY-08 08:
p&m-Xylene	<	0.3	0.3	ug/L	14-MAY-08 08:

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Program: PL
Program Name: MPCA-32 METRO MERLA-SF
Request Number: 326353

Date Received: 09-MAY-2008
Date Generated: 06-JUN-2008
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Samples: 200811238 - 200811247

Date Reported: 06-JUN-2008

Site ID	Project Name	Sampled By
-	REILLY	MIAKO USHIO

Sample No: 200811244

Receiving Comments: -

Coll Date	Coll Time	Field No	Sampling Point
06-MAY-2008	1040	20811244	W411-050608

Trip Blank	Field Blank
200811247	-

********** SAMPLE RESULTS **********

Unit: ORGANIC CHEMISTRY Reviewed By PDS on 06-JUN-08

Note: Positive Organic Results are indicated by BOLD.

	Result Codes	Result	Rept Level	Units	Analysis Date
468 VOCs in Water by GC/MS -EPA 524.2					
4-Bromofluorobenzene (surrogate)		93	70-130	% Recovery	14-MAY-08 09:06
Dibromofluoromethane (surrogate)		100	70-130	% Recovery	14-MAY-08 09:06
1,2-Dichlorobenzene-D4 (surrogate)		103	70-130	% Recovery	14-MAY-08 09:06
1,2-Dichloroethane-D4 (surrogate)		102	70-130	% Recovery	14-MAY-08 09:06
Toluene-D8 (surrogate)		110	70-130	% Recovery	14-MAY-08 09:06
Acetone	QR <	20	20	ug/L	14-MAY-08 09:06
Allyl chloride	<	0.5	0.5	ug/L	14-MAY-08 09:06
Benzene		**0.2**	**0.2**	**ug/L**	**14-MAY-08 09:06**
Bromobenzene	<	0.2	0.2	ug/L	14-MAY-08 09:06
Bromochloromethane	<	0.5	0.5	ug/L	14-MAY-08 09:06
Bromodichloromethane	<	0.2	0.2	ug/L	14-MAY-08 09:06
Bromoform	<	0.5	0.5	ug/L	14-MAY-08 09:06
Bromomethane	QR <	1.0	1.0	ug/L	14-MAY-08 09:06
n-Butylbenzene	<	0.5	0.5	ug/L	14-MAY-08 09:06
sec-Butylbenzene	<	0.5	0.5	ug/L	14-MAY-08 09:06
tert-Butylbenzene	<	0.5	0.5	ug/L	14-MAY-08 09:06
Carbon tetrachloride	<	0.2	0.2	ug/L	14-MAY-08 09:06
Chlorobenzene	<	0.2	0.2	ug/L	14-MAY-08 09:06
Chlorodibromomethane	<	0.5	0.5	ug/L	14-MAY-08 09:06
Chloroethane	<	0.5	0.5	ug/L	14-MAY-08 09:06
Chloroform	<	0.1	0.1	ug/L	14-MAY-08 09:06
Chloromethane	<	1.0	1.0	ug/L	14-MAY-08 09:06
2-Chlorotoluene	<	0.5	0.5	ug/L	14-MAY-08 09:06
4-Chlorotoluene	<	0.5	0.5	ug/L	14-MAY-08 09:06
1,2-Dibromo-3-chloropropane (DBCP)	<	2.0	2.0	ug/L	14-MAY-08 09:06
1,2-Dibromoethane (EDB)	<	0.5	0.5	ug/L	14-MAY-08 09:06

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Program: PL
Program Name: MPCA-32 METRO MERLA-SF
Request Number: 326353

Date Received: 09-MAY-2008
Date Generated: 06-JUN-2008
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Samples: 200811238 - 200811247

Date Reported: 06-JUN-2008

Site ID	Project Name	Sampled By
-	REILLY	MIAKO USHIO

Sample No: 200811244

Receiving Comments: -

Coll Date	Coll Time	Field No	Sampling Point
06-MAY-2008	1040	20811244	W411-050608

Trip Blank	Field Blank
200811247	-

********** SAMPLE RESULTS **********

Unit: ORGANIC CHEMISTRY Reviewed By PDS on 06-JUN-08

Note: Positive Organic Results are indicated by BOLD.

	Result Codes	Result	Rept Level	Units	Analysis Date
468 VOCs in Water by GC/MS -EPA 524.2					
Dibromomethane	<	0.5	0.5	ug/L	14-MAY-08 09:0
1,2-Dichlorobenzene	<	0.2	0.2	ug/L	14-MAY-08 09:0
1,3-Dichlorobenzene	<	0.2	0.2	ug/L	14-MAY-08 09:06
1,4-Dichlorobenzene	<	0.2	0.2	ug/L	14-MAY-08 09:0
Dichlorodifluoromethane	<	1.0	1.0	ug/L	14-MAY-08 09:0
1,1-Dichloroethane		**0.2**	**0.2**	**ug/L**	**14-MAY-08 09:0**
1,2-Dichloroethane	<	0.2	0.2	ug/L	14-MAY-08 09:0
1,1-Dichloroethene	<	0.5	0.5	ug/L	14-MAY-08 09:0
cis-1,2-Dichloroethene	<	0.2	0.2	ug/L	14-MAY-08 09:0
trans-1,2-Dichloroethene	<	0.1	0.1	ug/L	14-MAY-08 09:0
Dichlorofluoromethane	<	0.5	0.5	ug/L	14-MAY-08 09:0
1,2-Dichloropropane	<	0.2	0.2	ug/L	14-MAY-08 09:0
1,3-Dichloropropane	<	0.2	0.2	ug/L	14-MAY-08 09:06
2,2-Dichloropropane	QR <	0.5	0.5	ug/L	14-MAY-08 09:0
1,1-Dichloropropene	<	0.2	0.2	ug/L	14-MAY-08 09:0
cis-1,3-Dichloropropene	<	0.2	0.2	ug/L	14-MAY-08 09:0
trans-1,3-Dichloropropene	<	0.2	0.2	ug/L	14-MAY-08 09:0
Ethylbenzene	<	0.5	0.5	ug/L	14-MAY-08 09:0
Ethyl ether	<	2.0	2.0	ug/L	14-MAY-08 09:0
Hexachlorobutadiene	<	1.0	1.0	ug/L	14-MAY-08 09:0
Isopropylbenzene	<	0.5	0.5	ug/L	14-MAY-08 09:0
p-Isopropyltoluene	<	0.5	0.5	ug/L	14-MAY-08 09:0
Methylene chloride	<	0.5	0.5	ug/L	14-MAY-08 09:06
Methyl ethyl ketone (MEK)	<	10	10	ug/L	14-MAY-08 09:0
Methyl isobutyl ketone (MIBK)	<	5.0	5.0	ug/L	14-MAY-08 09:0
Methyl tertiary butyl ether (MTBE)	<	2.0	2.0	ug/L	14-MAY-08 09:0

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Program: PL
Program Name: MPCA-32 METRO MERLA-SF
Request Number: 326353

Date Received: 09-MAY-2008
Date Generated: 06-JUN-2008
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Samples: 200811238 - 200811247

Date Reported: 06-JUN-2008

Site ID	Project Name	Sampled By
-	REILLY	MIAKO USHIO

Sample No: 200811244

Receiving Comments: -

Coll Date	Coll Time	Field No	Sampling Point
06-MAY-2008	1040	20811244	W411-050608

Trip Blank	Field Blank
200811247	-

********** SAMPLE RESULTS **********

Unit: ORGANIC CHEMISTRY Reviewed By PDS on 06-JUN-08

Note: Positive Organic Results are indicated by BOLD.

	Result Codes	Result	Rept Level	Units	Analysis Date
468 VOCs in Water by GC/MS -EPA 524.2					
Naphthalene	<	1.0	1.0	ug/L	14-MAY-08 09:06
n-Propylbenzene	<	0.5	0.5	ug/L	14-MAY-08 09:06
Styrene	<	0.5	0.5	ug/L	14-MAY-08 09:06
1,1,1,2-Tetrachloroethane	<	0.2	0.2	ug/L	14-MAY-08 09:06
1,1,2,2-Tetrachloroethane	<	0.2	0.2	ug/L	14-MAY-08 09:06
Tetrachloroethene	<	0.2	0.2	ug/L	14-MAY-08 09:06
Tetrahydrofuran (THF)	<	10	10	ug/L	14-MAY-08 09:06
Toluene	<	0.5	0.5	ug/L	14-MAY-08 09:06
1,2,3-Trichlorobenzene	<	1.0	1.0	ug/L	14-MAY-08 09:06
1,2,4-Trichlorobenzene	<	0.5	0.5	ug/L	14-MAY-08 09:06
1,1,1-Trichloroethane	<	0.2	0.2	ug/L	14-MAY-08 09:06
1,1,2-Trichloroethane	<	0.2	0.2	ug/L	14-MAY-08 09:06
Trichloroethene (TCE)	<	0.1	0.1	ug/L	14-MAY-08 09:06
Trichlorofluoromethane	<	0.5	0.5	ug/L	14-MAY-08 09:06
1,2,3-Trichloropropane	<	0.5	0.5	ug/L	14-MAY-08 09:06
1,1,2-Trichlorotrifluoroethane	<	0.2	0.2	ug/L	14-MAY-08 09:06
1,2,4-Trimethylbenzene	<	0.5	0.5	ug/L	14-MAY-08 09:06
1,3,5-Trimethylbenzene	<	0.5	0.5	ug/L	14-MAY-08 09:06
Vinyl chloride		**1.1**	**0.2**	**ug/L**	**14-MAY-08 09:06**
o-Xylene	<	0.2	0.2	ug/L	14-MAY-08 09:06
p&m-Xylene	<	0.3	0.3	ug/L	14-MAY-08 09:06

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Program: PL
Program Name: MPCA-32 METRO MERLA-SF
Request Number: 326353

Date Received: 09-MAY-2008
Date Generated: 06-JUN-2008
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Samples: 200811238 - 200811247

Date Reported: 06-JUN-2008

Site ID	Project Name	Sampled By
-	REILLY	MIAKO USHIO

Sample No: 200811245

Receiving Comments: -

Coll Date	Coll Time	Field No	Sampling Point
06-MAY-2008	1135	20811245	W133-050608

Trip Blank	Field Blank
200811247	-

********** SAMPLE RESULTS **********

Unit: ORGANIC CHEMISTRY Reviewed By PDS on 06-JUN-08

Note: Positive Organic Results are indicated by BOLD.

	Result Codes	Result	Rept Level	Units	Analysis Date
468 VOCs in Water by GC/MS -EPA 524.2					
4-Bromofluorobenzene (surrogate)		94	70-130	% Recovery	19-MAY-08 16:
Dibromofluoromethane (surrogate)		104	70-130	% Recovery	19-MAY-08 16:
1,2-Dichlorobenzene-D4 (surrogate)		103	70-130	% Recovery	19-MAY-08 16:
1,2-Dichloroethane-D4 (surrogate)		102	70-130	% Recovery	19-MAY-08 16:
Toluene-D8 (surrogate)		98	70-130	% Recovery	19-MAY-08 16:
Acetone	<	20	20	ug/L	19-MAY-08 16:
Allyl chloride	<	0.5	0.5	ug/L	19-MAY-08 16:
Benzene	<	0.2	0.2	ug/L	19-MAY-08 16:
Bromobenzene	<	0.2	0.2	ug/L	19-MAY-08 16:
Bromochloromethane	<	0.5	0.5	ug/L	19-MAY-08 16:
Bromodichloromethane	<	0.2	0.2	ug/L	19-MAY-08 16:
Bromoform	<	0.5	0.5	ug/L	19-MAY-08 16:
Bromomethane	QR <	1.0	1.0	ug/L	19-MAY-08 16:
n-Butylbenzene	QR <	0.5	0.5	ug/L	19-MAY-08 16:
sec-Butylbenzene	<	0.5	0.5	ug/L	19-MAY-08 16:
tert-Butylbenzene	<	0.5	0.5	ug/L	19-MAY-08 16:
Carbon tetrachloride	<	0.2	0.2	ug/L	19-MAY-08 16:
Chlorobenzene	<	0.2	0.2	ug/L	19-MAY-08 16:
Chlorodibromomethane	<	0.5	0.5	ug/L	19-MAY-08 16:
Chloroethane	<	0.5	0.5	ug/L	19-MAY-08 16:
Chloroform	<	0.1	0.1	ug/L	19-MAY-08 16:
Chloromethane	<	1.0	1.0	ug/L	19-MAY-08 16:
2-Chlorotoluene	<	0.5	0.5	ug/L	19-MAY-08 16:
4-Chlorotoluene	<	0.5	0.5	ug/L	19-MAY-08 16:
1,2-Dibromo-3-chloropropane (DBCP)	<	2.0	2.0	ug/L	19-MAY-08 16:
1,2-Dibromoethane (EDB)	<	0.5	0.5	ug/L	19-MAY-08 16:

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Program: PL
Program Name: MPCA-32 METRO MERLA-SF
Request Number: 326353

Date Received: 09-MAY-2008
Date Generated: 06-JUN-2008
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Samples: 200811238 - 200811247

Date Reported: 06-JUN-2008

Site ID	Project Name	Sampled By
-	REILLY	MIAKO USHIO

Sample No: 200811245

Receiving Comments: -

Coll Date	Coll Time	Field No	Sampling Point
06-MAY-2008	1135	20811245	W133-050608

Trip Blank	Field Blank
200811247	-

********** SAMPLE RESULTS **********

Unit: ORGANIC CHEMISTRY Reviewed By PDS on 06-JUN-08

Note: Positive Organic Results are indicated by BOLD.

	Result Codes	Result	Rept Level	Units	Analysis Date
468 VOCs in Water by GC/MS -EPA 524.2					
Dibromomethane	<	0.5	0.5	ug/L	19-MAY-08 16:12
1,2-Dichlorobenzene	<	0.2	0.2	ug/L	19-MAY-08 16:12
1,3-Dichlorobenzene	<	0.2	0.2	ug/L	19-MAY-08 16:12
1,4-Dichlorobenzene	<	0.2	0.2	ug/L	19-MAY-08 16:12
Dichlorodifluoromethane	<	1.0	1.0	ug/L	19-MAY-08 16:12
1,1-Dichloroethane	<	0.2	0.2	ug/L	19-MAY-08 16:12
1,2-Dichloroethane	<	0.2	0.2	ug/L	19-MAY-08 16:12
1,1-Dichloroethene	<	0.5	0.5	ug/L	19-MAY-08 16:12
cis-1,2-Dichloroethene		**0.3**	**0.2**	**ug/L**	**19-MAY-08 16:12**
trans-1,2-Dichloroethene	<	0.1	0.1	ug/L	19-MAY-08 16:12
Dichlorofluoromethane	<	0.5	0.5	ug/L	19-MAY-08 16:12
1,2-Dichloropropane	<	0.2	0.2	ug/L	19-MAY-08 16:12
1,3-Dichloropropane	<	0.2	0.2	ug/L	19-MAY-08 16:12
2,2-Dichloropropane	<	0.5	0.5	ug/L	19-MAY-08 16:12
1,1-Dichloropropene	<	0.2	0.2	ug/L	19-MAY-08 16:12
cis-1,3-Dichloropropene	<	0.2	0.2	ug/L	19-MAY-08 16:12
trans-1,3-Dichloropropene	<	0.2	0.2	ug/L	19-MAY-08 16:12
Ethylbenzene	<	0.5	0.5	ug/L	19-MAY-08 16:12
Ethyl ether	<	2.0	2.0	ug/L	19-MAY-08 16:12
Hexachlorobutadiene	<	1.0	1.0	ug/L	19-MAY-08 16:12
Isopropylbenzene	<	0.5	0.5	ug/L	19-MAY-08 16:12
p-Isopropyltoluene	<	0.5	0.5	ug/L	19-MAY-08 16:12
Methylene chloride	<	0.5	0.5	ug/L	19-MAY-08 16:12
Methyl ethyl ketone (MEK)	<	10	10	ug/L	19-MAY-08 16:12
Methyl isobutyl ketone (MIBK)	<	5.0	5.0	ug/L	19-MAY-08 16:12
Methyl tertiary butyl ether (MTBE)	<	2.0	2.0	ug/L	19-MAY-08 16:12

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Program: PL
Program Name: MPCA-32 METRO MERLA-SF
Request Number: 326353

Date Received: 09-MAY-2008
Date Generated: 06-JUN-2008
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Samples: 200811238 - 200811247

Date Reported: 06-JUN-2008

Site ID	Project Name	Sampled By
-	REILLY	MIAKO USHIO

Sample No: 200811245

Receiving Comments: -

Coll Date	Coll Time	Field No	Sampling Point
06-MAY-2008	1135	20811245	W133-050608

Trip Blank	Field Blank
200811247	-

********** SAMPLE RESULTS **********

Unit: ORGANIC CHEMISTRY Reviewed By PDS on 06-JUN-08

Note: Positive Organic Results are indicated by BOLD.

	Result Codes		Result	Rept Level	Units	Analysis Date
468 VOCs in Water by GC/MS -EPA 524.2						
Naphthalene	QR	<	1.0	1.0	ug/L	19-MAY-08 16:1
n-Propylbenzene		<	0.5	0.5	ug/L	19-MAY-08 16:1
Styrene		<	0.5	0.5	ug/L	19-MAY-08 16:1
1,1,1,2-Tetrachloroethane		<	0.2	0.2	ug/L	19-MAY-08 16:1
1,1,2,2-Tetrachloroethane		<	0.2	0.2	ug/L	19-MAY-08 16:1
Tetrachloroethene		<	0.2	0.2	ug/L	19-MAY-08 16:1
Tetrahydrofuran (THF)		<	10	10	ug/L	19-MAY-08 16:1
Toluene		<	0.5	0.5	ug/L	19-MAY-08 16:1
1,2,3-Trichlorobenzene		<	1.0	1.0	ug/L	19-MAY-08 16:1
1,2,4-Trichlorobenzene		<	0.5	0.5	ug/L	19-MAY-08 16:1
1,1,1-Trichloroethane		<	0.2	0.2	ug/L	19-MAY-08 16:1
1,1,2-Trichloroethane		<	0.2	0.2	ug/L	19-MAY-08 16:1
Trichloroethene (TCE)		<	0.1	0.1	ug/L	19-MAY-08 16:1
Trichlorofluoromethane		<	0.5	0.5	ug/L	19-MAY-08 16:1
1,2,3-Trichloropropane		<	0.5	0.5	ug/L	19-MAY-08 16:1
1,1,2-Trichlorotrifluoroethane		<	0.2	0.2	ug/L	19-MAY-08 16:1
1,2,4-Trimethylbenzene		<	0.5	0.5	ug/L	19-MAY-08 16:1
1,3,5-Trimethylbenzene		<	0.5	0.5	ug/L	19-MAY-08 16:1
Vinyl chloride	J		**0.15**	**0.2**	**ug/L**	**19-MAY-08 16:1**
o-Xylene		<	0.2	0.2	ug/L	19-MAY-08 16:1
p&m-Xylene		<	0.3	0.3	ug/L	19-MAY-08 16:1

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Program: PL
Program Name: MPCA-32 METRO MERLA-SF
Request Number: 326353

Date Received: 09-MAY-2008
Date Generated: 06-JUN-2008
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Samples: 200811238 - 200811247

Date Reported: 06-JUN-2008

Site ID	Project Name	Sampled By
-	REILLY	MIAKO USHIO

Sample No: 200811246

Receiving Comments: -

Coll Date	Coll Time	Field No	Sampling Point
06-MAY-2008	1535	20811246	W122-050608

Trip Blank	Field Blank
200811247	-

********** SAMPLE RESULTS **********

Unit: ORGANIC CHEMISTRY Reviewed By PDS on 06-JUN-08

Note: Positive Organic Results are indicated by BOLD.

	Result Codes	Result	Rept Level	Units	Analysis Date
468 VOCs in Water by GC/MS -EPA 524.2					
4-Bromofluorobenzene (surrogate)		97	70-130	% Recovery	14-MAY-08 10:05
Dibromofluoromethane (surrogate)		97	70-130	% Recovery	14-MAY-08 10:05
1,2-Dichlorobenzene-D4 (surrogate)		103	70-130	% Recovery	14-MAY-08 10:05
1,2-Dichloroethane-D4 (surrogate)		101	70-130	% Recovery	14-MAY-08 10:05
Toluene-D8 (surrogate)		110	70-130	% Recovery	14-MAY-08 10:05
Acetone	QR <	20	20	ug/L	14-MAY-08 10:05
Allyl chloride	<	0.5	0.5	ug/L	14-MAY-08 10:05
Benzene	<	0.2	0.2	ug/L	14-MAY-08 10:05
Bromobenzene	<	0.2	0.2	ug/L	14-MAY-08 10:05
Bromochloromethane	<	0.5	0.5	ug/L	14-MAY-08 10:05
Bromodichloromethane	<	0.2	0.2	ug/L	14-MAY-08 10:05
Bromoform	<	0.5	0.5	ug/L	14-MAY-08 10:05
Bromomethane	QR <	1.0	1.0	ug/L	14-MAY-08 10:05
n-Butylbenzene	<	0.5	0.5	ug/L	14-MAY-08 10:05
sec-Butylbenzene	<	0.5	0.5	ug/L	14-MAY-08 10:05
tert-Butylbenzene	<	0.5	0.5	ug/L	14-MAY-08 10:05
Carbon tetrachloride	<	0.2	0.2	ug/L	14-MAY-08 10:05
Chlorobenzene	<	0.2	0.2	ug/L	14-MAY-08 10:05
Chlorodibromomethane	<	0.5	0.5	ug/L	14-MAY-08 10:05
Chloroethane	<	0.5	0.5	ug/L	14-MAY-08 10:05
Chloroform	<	0.1	0.1	ug/L	14-MAY-08 10:05
Chloromethane	<	1.0	1.0	ug/L	14-MAY-08 10:05
2-Chlorotoluene	<	0.5	0.5	ug/L	14-MAY-08 10:05
4-Chlorotoluene	<	0.5	0.5	ug/L	14-MAY-08 10:05
1,2-Dibromo-3-chloropropane (DBCP)	<	2.0	2.0	ug/L	14-MAY-08 10:05
1,2-Dibromoethane (EDB)	<	0.5	0.5	ug/L	14-MAY-08 10:05

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Program: PL
Program Name: MPCA-32 METRO MERLA-SF
Request Number: 326353

Date Received: 09-MAY-2008
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Samples: 200811238 - 200811247

Date Reported: 06-JUN-2008

Site ID	Project Name	Sampled By
-	REILLY	MIAKO USHIO

Sample No: 200811246

Receiving Comments: -

Coll Date	Coll Time	Field No	Sampling Point
06-MAY-2008	1535	20811246	W122-050608

Trip Blank	Field Blank
200811247	-

********** SAMPLE RESULTS **********

Unit: ORGANIC CHEMISTRY Reviewed By PDS on 06-JUN-08

Note: Positive Organic Results are indicated by BOLD.

	Result Codes	Result	Rept Level	Units	Analysis Date
468 VOCs in Water by GC/MS -EPA 524.2					
Dibromomethane	<	0.5	0.5	ug/L	14-MAY-08 10:
1,2-Dichlorobenzene	<	0.2	0.2	ug/L	14-MAY-08 10:
1,3-Dichlorobenzene	<	0.2	0.2	ug/L	14-MAY-08 10:
1,4-Dichlorobenzene	<	0.2	0.2	ug/L	14-MAY-08 10:
Dichlorodifluoromethane	<	1.0	1.0	ug/L	14-MAY-08 10:
1,1-Dichloroethane	<	0.2	0.2	ug/L	14-MAY-08 10:
1,2-Dichloroethane	<	0.2	0.2	ug/L	14-MAY-08 10:
1,1-Dichloroethene	<	0.5	0.5	ug/L	14-MAY-08 10:
cis-1,2-Dichloroethene	<	0.2	0.2	ug/L	14-MAY-08 10:
trans-1,2-Dichloroethene	<	0.1	0.1	ug/L	14-MAY-08 10:
Dichlorofluoromethane	<	0.5	0.5	ug/L	14-MAY-08 10:
1,2-Dichloropropane	<	0.2	0.2	ug/L	14-MAY-08 10:
1,3-Dichloropropane	<	0.2	0.2	ug/L	14-MAY-08 10:
2,2-Dichloropropane	QR <	0.5	0.5	ug/L	14-MAY-08 10:
1,1-Dichloropropene	<	0.2	0.2	ug/L	14-MAY-08 10:
cis-1,3-Dichloropropene	<	0.2	0.2	ug/L	14-MAY-08 10:
trans-1,3-Dichloropropene	<	0.2	0.2	ug/L	14-MAY-08 10:
Ethylbenzene	<	0.5	0.5	ug/L	14-MAY-08 10:
Ethyl ether	<	2.0	2.0	ug/L	14-MAY-08 10:
Hexachlorobutadiene	<	1.0	1.0	ug/L	14-MAY-08 10:
Isopropylbenzene	<	0.5	0.5	ug/L	14-MAY-08 10:
p-Isopropyltoluene	<	0.5	0.5	ug/L	14-MAY-08 10:
Methylene chloride	<	0.5	0.5	ug/L	14-MAY-08 10:
Methyl ethyl ketone (MEK)	<	10	10	ug/L	14-MAY-08 10:
Methyl isobutyl ketone (MIBK)	<	5.0	5.0	ug/L	14-MAY-08 10:
Methyl tertiary butyl ether (MTBE)	<	2.0	2.0	ug/L	14-MAY-08 10:

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Program: PL
Program Name: MPCA-32 METRO MERLA-SF
Request Number: 326353

Date Received: 09-MAY-2008
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Samples: 200811238 - 200811247

Date Reported: 06-JUN-2008

Site ID	Project Name	Sampled By
-	REILLY	MIAKO USHIO

Sample No: 200811246

Receiving Comments: -

Coll Date	Coll Time	Field No	Sampling Point
06-MAY-2008	1535	20811246	W122-050608

Trip Blank	Field Blank
200811247	-

********** SAMPLE RESULTS **********

Unit: ORGANIC CHEMISTRY Reviewed By PDS on 06-JUN-08

Note: Positive Organic Results are indicated by BOLD.

	Result Codes	Result	Rept Level	Units	Analysis Date
468 VOCs in Water by GC/MS -EPA 524.2					
Naphthalene	<	1.0	1.0	ug/L	14-MAY-08 10:05
n-Propylbenzene	<	0.5	0.5	ug/L	14-MAY-08 10:05
Styrene	<	0.5	0.5	ug/L	14-MAY-08 10:05
1,1,1,2-Tetrachloroethane	<	0.2	0.2	ug/L	14-MAY-08 10:05
1,1,2,2-Tetrachloroethane	<	0.2	0.2	ug/L	14-MAY-08 10:05
Tetrachloroethene	<	0.2	0.2	ug/L	14-MAY-08 10:05
Tetrahydrofuran (THF)	<	10	10	ug/L	14-MAY-08 10:05
Toluene	<	0.5	0.5	ug/L	14-MAY-08 10:05
1,2,3-Trichlorobenzene	<	1.0	1.0	ug/L	14-MAY-08 10:05
1,2,4-Trichlorobenzene	<	0.5	0.5	ug/L	14-MAY-08 10:05
1,1,1-Trichloroethane	<	0.2	0.2	ug/L	14-MAY-08 10:05
1,1,2-Trichloroethane	<	0.2	0.2	ug/L	14-MAY-08 10:05
Trichloroethene (TCE)	<	0.1	0.1	ug/L	14-MAY-08 10:05
Trichlorofluoromethane	<	0.5	0.5	ug/L	14-MAY-08 10:05
1,2,3-Trichloropropane	<	0.5	0.5	ug/L	14-MAY-08 10:05
1,1,2-Trichlorotrifluoroethane	<	0.2	0.2	ug/L	14-MAY-08 10:05
1,2,4-Trimethylbenzene	<	0.5	0.5	ug/L	14-MAY-08 10:05
1,3,5-Trimethylbenzene	<	0.5	0.5	ug/L	14-MAY-08 10:05
Vinyl chloride	<	0.2	0.2	ug/L	14-MAY-08 10:05
o-Xylene	<	0.2	0.2	ug/L	14-MAY-08 10:05
p&m-Xylene	<	0.3	0.3	ug/L	14-MAY-08 10:05

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Program: PL
Program Name: MPCA-32 METRO MERLA-SF
Request Number: 326353

Date Received: 09-MAY-2008
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Samples: 200811238 - 200811247

Date Reported: 06-JUN-2008

Site ID	Project Name	Sampled By
-	REILLY	MIAKO USHIO

Sample No: 200811247 (Trip Blank)

Receiving Comments: -

Coll Date	Coll Time	Field No	Sampling Point
06-MAY-2008	-	20811247	TRIP BLANK

Trip Blank	Field Blank
200811247	-

********** SAMPLE RESULTS **********

Unit: ORGANIC CHEMISTRY Reviewed By PDS on 06-JUN-08

Note: Positive Organic Results are indicated by BOLD.

	Result Codes	Result	Rept Level	Units	Analysis Date
468 VOCs in Water by GC/MS -EPA 524.2					
4-Bromofluorobenzene (surrogate)		99	70-130	% Recovery	14-MAY-08 10:
Dibromofluoromethane (surrogate)		103	70-130	% Recovery	14-MAY-08 10:
1,2-Dichlorobenzene-D4 (surrogate)		103	70-130	% Recovery	14-MAY-08 10:
1,2-Dichloroethane-D4 (surrogate)		104	70-130	% Recovery	14-MAY-08 10:
Toluene-D8 (surrogate)		103	70-130	% Recovery	14-MAY-08 10:
Acetone	QR <	20	20	ug/L	14-MAY-08 10:
Allyl chloride	<	0.5	0.5	ug/L	14-MAY-08 10:
Benzene	<	0.2	0.2	ug/L	14-MAY-08 10:
Bromobenzene	<	0.2	0.2	ug/L	14-MAY-08 10:
Bromochloromethane	<	0.5	0.5	ug/L	14-MAY-08 10:
Bromodichloromethane	<	0.2	0.2	ug/L	14-MAY-08 10:
Bromoform	<	0.5	0.5	ug/L	14-MAY-08 10:
Bromomethane	QR <	1.0	1.0	ug/L	14-MAY-08 10:
n-Butylbenzene	<	0.5	0.5	ug/L	14-MAY-08 10:
sec-Butylbenzene	<	0.5	0.5	ug/L	14-MAY-08 10:
tert-Butylbenzene	<	0.5	0.5	ug/L	14-MAY-08 10:
Carbon tetrachloride	<	0.2	0.2	ug/L	14-MAY-08 10:
Chlorobenzene	<	0.2	0.2	ug/L	14-MAY-08 10:
Chlorodibromomethane	<	0.5	0.5	ug/L	14-MAY-08 10
Chloroethane	<	0.5	0.5	ug/L	14-MAY-08 10:
Chloroform	<	0.1	0.1	ug/L	14-MAY-08 10:
Chloromethane	<	1.0	1.0	ug/L	14-MAY-08 10.
2-Chlorotoluene	<	0.5	0.5	ug/L	14-MAY-08 10:
4-Chlorotoluene	<	0.5	0.5	ug/L	14-MAY-08 10:3
1,2-Dibromo-3-chloropropane (DBCP)	<	2.0	2.0	ug/L	14-MAY-08 10:
1,2-Dibromoethane (EDB)	<	0.5	0.5	ug/L	14-MAY-08 10:

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Program: PL
Program Name: MPCA-32 METRO MERLA-SF
Request Number: 326353

Date Received: 09-MAY-2008
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Samples: 200811238 - 200811247

Date Reported: 06-JUN-2008

Site ID	Project Name	Sampled By
-	REILLY	MIAKO USHIO

Sample No: 200811247 (Trip Blank)

Receiving Comments: -

Coll Date	Coll Time	Field No	Sampling Point
06-MAY-2008	-	20811247	TRIP BLANK

Trip Blank	Field Blank
200811247	-

********** SAMPLE RESULTS **********

Unit: ORGANIC CHEMISTRY Reviewed By PDS on 06-JUN-08

Note: Positive Organic Results are indicated by BOLD.

	Result Codes	Result	Rept Level	Units	Analysis Date
468 VOCs in Water by GC/MS -EPA 524.2					
Dibromomethane	<	0.5	0.5	ug/L	14-MAY-08 10:34
1,2-Dichlorobenzene	<	0.2	0.2	ug/L	14-MAY-08 10:34
1,3-Dichlorobenzene	<	0.2	0.2	ug/L	14-MAY-08 10:34
1,4-Dichlorobenzene	<	0.2	0.2	ug/L	14-MAY-08 10:34
Dichlorodifluoromethane	<	1.0	1.0	ug/L	14-MAY-08 10:34
1,1-Dichloroethane	<	0.2	0.2	ug/L	14-MAY-08 10:34
1,2-Dichloroethane	<	0.2	0.2	ug/L	14-MAY-08 10:34
1,1-Dichloroethene	<	0.5	0.5	ug/L	14-MAY-08 10:34
cis-1,2-Dichloroethene	<	0.2	0.2	ug/L	14-MAY-08 10:34
trans-1,2-Dichloroethene	<	0.1	0.1	ug/L	14-MAY-08 10:34
Dichlorofluoromethane	<	0.5	0.5	ug/L	14-MAY-08 10:34
1,2-Dichloropropane	<	0.2	0.2	ug/L	14-MAY-08 10:34
1,3-Dichloropropane	<	0.2	0.2	ug/L	14-MAY-08 10:34
2,2-Dichloropropane	QR <	0.5	0.5	ug/L	14-MAY-08 10:34
1,1-Dichloropropene	<	0.2	0.2	ug/L	14-MAY-08 10:34
cis-1,3-Dichloropropene	<	0.2	0.2	ug/L	14-MAY-08 10:34
trans-1,3-Dichloropropene	<	0.2	0.2	ug/L	14-MAY-08 10:34
Ethylbenzene	<	0.5	0.5	ug/L	14-MAY-08 10:34
Ethyl ether	<	2.0	2.0	ug/L	14-MAY-08 10:34
Hexachlorobutadiene	<	1.0	1.0	ug/L	14-MAY-08 10:34
Isopropylbenzene	<	0.5	0.5	ug/L	14-MAY-08 10:34
p-Isopropyltoluene	<	0.5	0.5	ug/L	14-MAY-08 10:34
Methylene chloride	<	0.5	0.5	ug/L	14-MAY-08 10:34
Methyl ethyl ketone (MEK)	<	10	10	ug/L	14-MAY-08 10:34
Methyl isobutyl ketone (MIBK)	<	5.0	5.0	ug/L	14-MAY-08 10:34
Methyl tertiary butyl ether (MTBE)	<	2.0	2.0	ug/L	14-MAY-08 10:34

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Program: PL
Program Name: MPCA-32 METRO MERLA-SF
Request Number: 326353

Date Received: 09-MAY-2008
Date Generated: 06-JUN-2008

Samples: 200811238 - 200811247

Date Reported: 06-JUN-2008

Site ID	Project Name	Sampled By
-	REILLY	MIAKO USHIO

Sample No: 200811247(Trip Blank)

Receiving Comments: -

Coll Date	Coll Time	Field No	Sampling Point
06-MAY-2008	-	20811247	TRIP BLANK

Trip Blank	Field Blank
200811247	-

********** SAMPLE RESULTS **********

Unit: ORGANIC CHEMISTRY Reviewed By PDS on 06-JUN-08

Note: Positive Organic Results are indicated by BOLD.

	Result Codes	Result	Rept Level	Units	Analysis Date
468 VOCs in Water by GC/MS -EPA 524.2					
Naphthalene	<	1.0	1.0	ug/L	14-MAY-08 10:
n-Propylbenzene	<	0.5	0.5	ug/L	14-MAY-08 10:
Styrene	<	0.5	0.5	ug/L	14-MAY-08 10:
1,1,1,2-Tetrachloroethane	<	0.2	0.2	ug/L	14-MAY-08 10:
1,1,2,2-Tetrachloroethane	<	0.2	0.2	ug/L	14-MAY-08 10:
Tetrachloroethene	<	0.2	0.2	ug/L	14-MAY-08 10:
Tetrahydrofuran (THF)	<	10	10	ug/L	14-MAY-08 10:
Toluene	<	0.5	0.5	ug/L	14-MAY-08 10:
1,2,3-Trichlorobenzene	<	1.0	1.0	ug/L	14-MAY-08 10:
1,2,4-Trichlorobenzene	<	0.5	0.5	ug/L	14-MAY-08 10:
1,1,1-Trichloroethane	<	0.2	0.2	ug/L	14-MAY-08 10:
1,1,2-Trichloroethane	<	0.2	0.2	ug/L	14-MAY-08 10:
Trichloroethene (TCE)	<	0.1	0.1	ug/L	14-MAY-08 10:
Trichlorofluoromethane	<	0.5	0.5	ug/L	14-MAY-08 10:
1,2,3-Trichloropropane	<	0.5	0.5	ug/L	14-MAY-08 10:
1,1,2-Trichlorotrifluoroethane	<	0.2	0.2	ug/L	14-MAY-08 10:
1,2,4-Trimethylbenzene	<	0.5	0.5	ug/L	14-MAY-08 10:
1,3,5-Trimethylbenzene	<	0.5	0.5	ug/L	14-MAY-08 10:
Vinyl chloride	<	0.2	0.2	ug/L	14-MAY-08 10:
o-Xylene	<	0.2	0.2	ug/L	14-MAY-08 10:
p&m-Xylene	<	0.3	0.3	ug/L	14-MAY-08 10:

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Program: PL
Program Name: MPCA-32 METRO MERLA-SF
Request Number: 326353

Date Received: 09-MAY-2008
Date Generated: 06-JUN-2008

Samples: 200811238 - 200811247

Date Reported: 06-JUN-2008

Site ID	Project Name	Sampled By
-	REILLY	MIAKO USHIO

Result Code Description

J The analyte was positively identified. The result is below the report level and is estimated.

QR Response for this analyte in a continuing calibration verification standard did not meet the QC acceptance criteria. The sample result for this analyte should be considered as estimated.

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Program: PL
Program Name: MPCA-32 METRO MERLA-SF
Request Number: 326353

Date Received: 09-MAY-2008
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Samples: 200811238 - 200811247

Date Reported: 06-JUN-2008

Site ID	Project Name	Sampled By
-	REILLY	MIAKO USHIO

Quality Control Batch ID: 20080513.11 AN: 468

All samples analyzed in the batch

200810158, 200810161, 200810162, 200810163, 200810187, 200810236, 200810241, 200810355, 200810625, 200810626, 200810627, 200810934, 200811238

VOCs in Water by GC/MS
EPA 524.2

Sample	Collection Date	Analysis Date	Analysis Time	Holding Time	Acceptable
200811238	05-MAY-08	13-MAY-08	8	14 DAYS	Y

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Program: PL
Program Name: MPCA-32 METRO MERLA-SF
Request Number: 326353

Date Received: 09-MAY-2008
Date Generated: 06-JUN-2008

Samples: 200811238 - 200811247

Date Reported: 06-JUN-2008

Site ID	Project Name	Sampled By
-	REILLY	MIAKO USHIO

Quality Control Batch ID: 20080513.11 AN: 468

Method Blank

	Result Code	Surrogate % Recovery	Accept Limits
4-Bromofluorobenzene (surrogate)		104	70-130
Dibromofluoromethane (surrogate)		101	70-130
1,2-Dichlorobenzene-D4 (surrogate)		103	70-130
1,2-Dichloroethane-D4 (surrogate)		103	70-130
Toluene-D8 (surrogate)		109	70-130

	Result	Report Level	Units	Control Limit
Acetone	<	20	ug/L	20
Allyl chloride	<	0.5	ug/L	0.5
Benzene	<	0.2	ug/L	0.2
Bromobenzene	<	0.2	ug/L	0.2
Bromochloromethane	<	0.5	ug/L	0.5
Bromodichloromethane	<	0.2	ug/L	0.2
Bromoform	<	0.5	ug/L	0.5
Bromomethane	<	1.0	ug/L	1.0
n-Butylbenzene	<	0.5	ug/L	0.5
sec-Butylbenzene	<	0.5	ug/L	0.5
tert-Butylbenzene	<	0.5	ug/L	0.5
Carbon tetrachloride	<	0.2	ug/L	0.2
Chlorobenzene	<	0.2	ug/L	0.2
Chlorodibromomethane	<	0.5	ug/L	0.5
Chloroethane	<	0.5	ug/L	0.5
Chloroform	<	0.1	ug/L	0.1
Chloromethane	<	1.0	ug/L	1.0
2-Chlorotoluene	<	0.5	ug/L	0.5
4-Chlorotoluene	<	0.5	ug/L	0.5
1,2-Dibromo-3-chloropropane (DBCP)	<	2.0	ug/L	2.0
1,2-Dibromoethane (EDB)	<	0.5	ug/L	0.5
Dibromomethane	<	0.5	ug/L	0.5
1,2-Dichlorobenzene	<	0.2	ug/L	0.2
1,3-Dichlorobenzene	<	0.2	ug/L	0.2
1,4-Dichlorobenzene	<	0.2	ug/L	0.2
Dichlorodifluoromethane	<	1.0	ug/L	1.0

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Program: PL
Program Name: MPCA-32 METRO MERLA-SF
Request Number: 326353

Date Received: 09-MAY-2008
Date Generated: 06-JUN-2008

Samples: 200811238 - 200811247

Date Reported: 06-JUN-2008

Site ID	Project Name	Sampled By
-	REILLY	MIAKO USHIO

Quality Control Batch ID: 20080513.11 AN: 468

Method Blank

	Result	Report Level	Units	Control Limit
1,1-Dichloroethane	<	0.2	ug/L	0.2
1,2-Dichloroethane	<	0.2	ug/L	0.2
1,1-Dichloroethene	<	0.5	ug/L	0.5
cis-1,2-Dichloroethene	<	0.2	ug/L	0.2
trans-1,2-Dichloroethene	<	0.1	ug/L	0.1
Dichlorofluoromethane	<	0.5	ug/L	0.5
1,2-Dichloropropane	<	0.2	ug/L	0.2
1,3-Dichloropropane	<	0.2	ug/L	0.2
2,2-Dichloropropane	<	0.5	ug/L	0.5
1,1-Dichloropropene	<	0.2	ug/L	0.2
cis-1,3-Dichloropropene	<	0.2	ug/L	0.2
trans-1,3-Dichloropropene	<	0.2	ug/L	0.2
Ethylbenzene	<	0.5	ug/L	0.5
Ethyl ether	<	2.0	ug/L	2.0
Hexachlorobutadiene	<	1.0	ug/L	1.0
Isopropylbenzene	<	0.5	ug/L	0.5
p-Isopropyltoluene	<	0.5	ug/L	0.5
Methylene chloride	<	0.5	ug/L	0.5
Methyl ethyl ketone (MEK)	<	10	ug/L	10
Methyl isobutyl ketone (MIBK)	<	5.0	ug/L	5.0
Methyl tertiary butyl ether (MTBE)	<	2.0	ug/L	2.0
Naphthalene	<	1.0	ug/L	1.0
n-Propylbenzene	<	0.5	ug/L	0.5
Styrene	<	0.5	ug/L	0.5
1,1,1,2-Tetrachloroethane	<	0.2	ug/L	0.2
1,1,2,2-Tetrachloroethane	<	0.2	ug/L	0.2
Tetrachloroethene	<	0.2	ug/L	0.2
Tetrahydrofuran (THF)	<	10	ug/L	10
Toluene	<	0.5	ug/L	0.5
1,2,3-Trichlorobenzene	<	1.0	ug/L	1.0
1,2,4-Trichlorobenzene	<	0.5	ug/L	0.5
1,1,1-Trichloroethane	<	0.2	ug/L	0.2
1,1,2-Trichloroethane	<	0.2	ug/L	0.2
Trichloroethene (TCE)	<	0.1	ug/L	0.1

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Program: PL
Program Name: MPCA-32 METRO MERLA-SF
Request Number: 326353

Date Received: 09-MAY-2008
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Samples: 200811238 - 200811247

Date Reported: 06-JUN-2008

Site ID	Project Name	Sampled By
-	REILLY	MIAKO USHIO

Quality Control Batch ID: 20080513.11 AN: 468

Method Blank

	Result	Report Level	Units	Control Limit
Trichlorofluoromethane	<	0.5	ug/L	0.5
1,2,3-Trichloropropane	<	0.5	ug/L	0.5
1,1,2-Trichlorotrifluoroethane	<	0.2	ug/L	0.2
1,2,4-Trimethylbenzene	<	0.5	ug/L	0.5
1,3,5-Trimethylbenzene	<	0.5	ug/L	0.5
Vinyl chloride	<	0.2	ug/L	0.2
o-Xylene	<	0.2	ug/L	0.2
p&m-Xylene	<	0.3	ug/L	0.3

Laboratory Control Samples

	Result Code	LCS %Recovery	LCSD %Recovery	Accept. Limits
4-Bromofluorobenzene (surrogate)		97	95	70-130
Dibromofluoromethane (surrogate)		100	101	70-130
1,2-Dichlorobenzene-D4 (surrogat		89	89	70-130
1,2-Dichloroethane-D4 (surrogate		101	101	70-130
Toluene-D8 (surrogate)		114	102	70-130

	Spike Level	Units	Spike %Rec	Dup %Rec	RPD	%Rec Req	RPD Req
Acetone	5	ug/L	0*	19*	200*	70-130	30
Allyl chloride	5	ug/L	96	95	0	70-130	30
Benzene	5	ug/L	100	102	2	70-130	30
Bromobenzene	5	ug/L	99	97	2	70-130	30
Bromochloromethane	5	ug/L	105	104	1	70-130	30
Bromodichloromethane	5	ug/L	103	94	9	70-130	30
Bromoform	5	ug/L	96	90	7	70-130	30
Bromomethane	5	ug/L	103	94	10	70-130	30
n-Butylbenzene	5	ug/L	75	75	1	70-130	30

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Program: PL
Program Name: MPCA-32 METRO MERLA-SF
Request Number: 326353

Date Received: 09-MAY-2008
Date Generated: 06-JUN-2008

Samples: 200811238 - 200811247

Date Reported: 06-JUN-2008

Site ID	Project Name	Sampled By
-	REILLY	MIAKO USHIO

Quality Control Batch ID: 20080513.11 AN: 468

Laboratory Control Samples

	Spike Level	Units	Spike %Rec	Dup %Rec	RPD	%Rec Req	RPD Req
sec-Butylbenzene	5	ug/L	83	84	1	70-130	30
tert-Butylbenzene	5	ug/L	79	80	0	70-130	30
Carbon tetrachloride	5	ug/L	99	98	1	70-130	30
Chlorobenzene	5	ug/L	99	98	1	70-130	30
Chlorodibromomethane	5	ug/L	102	97	5	70-130	30
Chloroethane	5	ug/L	121	117	4	70-130	30
Chloroform	5	ug/L	101	106	4	70-130	30
Chloromethane	5	ug/L	117	105	11	70-130	30
2-Chlorotoluene	5	ug/L	103	102	1	70-130	30
4-Chlorotoluene	5	ug/L	106	105	1	70-130	30
1,2-Dibromo-3-chloropropane (D	5	ug/L	84	83	1	70-130	30
1,2-Dibromoethane (EDB)	5	ug/L	100	103	2	70-130	30
Dibromomethane	5	ug/L	103	103	1	70-130	30
1,2-Dichlorobenzene	5	ug/L	96	96	0	70-130	30
1,3-Dichlorobenzene	5	ug/L	99	97	2	70-130	30
1,4-Dichlorobenzene	5	ug/L	96	94	2	70-130	30
Dichlorodifluoromethane	5	ug/L	127	117	9	70-130	30
1,1-Dichloroethane	5	ug/L	100	105	5	70-130	30
1,2-Dichloroethane	5	ug/L	98	106	8	70-130	30
1,1-Dichloroethene	5	ug/L	99	98	1	70-130	30
cis-1,2-Dichloroethene	5	ug/L	99	98	1	70-130	30
trans-1,2-Dichloroethene	5	ug/L	100	101	1	70-130	30
Dichlorofluoromethane	5	ug/L	109	113	4	70-130	30
1,2-Dichloropropane	5	ug/L	103	99	4	70-130	30
1,3-Dichloropropane	5	ug/L	102	103	0	70-130	30
2,2-Dichloropropane	5	ug/L	99	87	12	70-130	30
1,1-Dichloropropene	5	ug/L	98	99	1	70-130	30
cis-1,3-Dichloropropene	5	ug/L	71	77	8	70-130	30

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Program: PL
Program Name: MPCA-32 METRO MERLA-SF
Request Number: 326353

Date Received: 09-MAY-2008
Date Generated: 06-JUN-2008
Request Page: 37 of 59

Samples: 200811238 - 200811247

Date Reported: 06-JUN-2008

Site ID	Project Name	Sampled By
-	REILLY	MIAKO USHIO

Quality Control Batch ID: 20080513.11 AN:468

Laboratory Control Samples

	Spike Level	Units	Spike %Rec	Dup %Rec	RPD	%Rec Req	RPD Req
trans-1,3-Dichloropropene	5	ug/L	86	68*	24	70-130	30
Ethylbenzene	5	ug/L	101	103	2	70-130	30
Ethyl ether	5	ug/L	100	102	2	70-130	30
Hexachlorobutadiene	5	ug/L	89	87	3	70-130	30
Isopropylbenzene	5	ug/L	87	86	1	70-130	30
p-Isopropyltoluene	5	ug/L	79	79	0	70-130	30
Methylene chloride	5	ug/L	96	97	1	70-130	30
Methyl ethyl ketone (MEK)	5	ug/L	73	83	13	70-130	30
Methyl isobutyl ketone (MIBK)	5	ug/L	82	88	7	70-130	30
Methyl tertiary butyl ether (M	5	ug/L	94	97	3	70-130	30
Naphthalene	5	ug/L	65*	68*	5	70-130	30
n-Propylbenzene	5	ug/L	86	85	1	70-130	30
Styrene	5	ug/L	87	87	0	70-130	30
1,1,1,2-Tetrachloroethane	5	ug/L	104	102	1	70-130	30
1,1,2,2-Tetrachloroethane	5	ug/L	100	101	1	70-130	30
Tetrachloroethene	5	ug/L	99	98	2	70-130	30
Tetrahydrofuran (THF)	5	ug/L	70	80	14	70-130	30
Toluene	5	ug/L	100	97	4	70-130	30
1,2,3-Trichlorobenzene	5	ug/L	80	82	2	70-130	30
1,2,4-Trichlorobenzene	5	ug/L	80	81	1	70-130	30
1,1,1-Trichloroethane	5	ug/L	98	102	4	70-130	30
1,1,2-Trichloroethane	5	ug/L	103	94	9	70-130	30
Trichloroethene (TCE)	5	ug/L	102	101	2	70-130	30
Trichlorofluoromethane	5	ug/L	101	104	3	70-130	30
1,2,3-Trichloropropane	5	ug/L	99	101	2	70-130	30
1,1,2-Trichlorotrifluoroethane	5	ug/L	102	97	5	70-130	30
1,2,4-Trimethylbenzene	5	ug/L	86	86	1	70-130	30
1,3,5-Trimethylbenzene	5	ug/L	85	84	1	70-130	30

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Program: PL
Program Name: MPCA-32 METRO MERLA-SF
Request Number: 326353

Date Received: 09-MAY-2008
Date Generated: 06-JUN-2008

Samples: 200811238 - 200811247

Date Reported: 06-JUN-2008

Site ID	Project Name	Sampled By
-	REILLY	MIAKO USHIO

Quality Control Batch ID: 20080513.11 AN: 468

Laboratory Control Samples

	Spike Level	Units	Spike %Rec	Dup %Rec	RPD	%Rec Req	RPD Req
Vinyl chloride	5	ug/L	119	105	12	70-130	30
o-Xylene	5	ug/L	94	94	0	70-130	30
p&m-Xylene	5	ug/L	89	89	1	70-130	30

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Program: PL
Program Name: MPCA-32 METRO MERLA-SF
Request Number: 326353

Date Received: 09-MAY-2008
Date Generated: 06-JUN-2008
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Samples: 200811238 - 200811247

Date Reported: 06-JUN-2008

Site ID	Project Name	Sampled By
-	REILLY	MIAKO USHIO

Quality Control Batch ID: 20080513.12 AN: 468

All samples analyzed in the batch

200810650, 200810919, 200810943, 200810944, 200810945, 200810946, 200810947, 200810948, 200810949, 200811239, 200811240, 200811241, 200811242

VOCs in Water by GC/MS
EPA 524.2

Sample	Collection Date	Analysis Date	Analysis Time	Holding Time	Acceptable
200811239	05-MAY-08	13-MAY-08	8	14 DAYS	Y
200811240	05-MAY-08	14-MAY-08	9	14 DAYS	Y
200811241	05-MAY-08	14-MAY-08	9	14 DAYS	Y
200811242	05-MAY-08	14-MAY-08	9	14 DAYS	Y

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Program: PL
Program Name: MPCA-32 METRO MERLA-SF
Request Number: 326353

Date Received: 09-MAY-2008
Date Generated: 06-JUN-2008

Samples: 200811238 - 200811247

Date Reported: 06-JUN-2008

Site ID	Project Name	Sampled By
-	REILLY	MIAKO USHIO

Quality Control Batch ID: 20080513.12 AN: 468

Method Blank

	Result Code	Surrogate % Recovery	Accept Limits
4-Bromofluorobenzene (surrogate)		99	70-130
Dibromofluoromethane (surrogate)		98	70-130
1,2-Dichlorobenzene-D4 (surrogate)		101	70-130
1,2-Dichloroethane-D4 (surrogate)		103	70-130
Toluene-D8 (surrogate)		108	70-130

	Result	Report Level	Units	Control Limit
Acetone	<	20	ug/L	20
Allyl chloride	<	0.5	ug/L	0.5
Benzene	<	0.2	ug/L	0.2
Bromobenzene	<	0.2	ug/L	0.2
Bromochloromethane	<	0.5	ug/L	0.5
Bromodichloromethane	<	0.2	ug/L	0.2
Bromoform	<	0.5	ug/L	0.5
Bromomethane	<	1.0	ug/L	1.0
n-Butylbenzene	<	0.5	ug/L	0.5
sec-Butylbenzene	<	0.5	ug/L	0.5
tert-Butylbenzene	<	0.5	ug/L	0.5
Carbon tetrachloride	<	0.2	ug/L	0.2
Chlorobenzene	<	0.2	ug/L	0.2
Chlorodibromomethane	<	0.5	ug/L	0.5
Chloroethane	<	0.5	ug/L	0.5
Chloroform	<	0.1	ug/L	0.1
Chloromethane	<	1.0	ug/L	1.0
2-Chlorotoluene	<	0.5	ug/L	0.5
4-Chlorotoluene	<	0.5	ug/L	0.5
1,2-Dibromo-3-chloropropane (DBCP)	<	2.0	ug/L	2.0
1,2-Dibromoethane (EDB)	<	0.5	ug/L	0.5
Dibromomethane	<	0.5	ug/L	0.5
1,2-Dichlorobenzene	<	0.2	ug/L	0.2
1,3-Dichlorobenzene	<	0.2	ug/L	0.2
1,4-Dichlorobenzene	<	0.2	ug/L	0.2
Dichlorodifluoromethane	<	1.0	ug/L	1.0

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Program: PL
Program Name: MPCA-32 METRO MERLA-SF
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Date Received: 09-MAY-2008
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Samples: 200811238 - 200811247

Date Reported: 06-JUN-2008

Site ID	Project Name	Sampled By
-	REILLY	MIAKO USHIO

Quality Control Batch ID: 20080513.12 AN: 468

Method Blank

	Result	Report Level	Units	Control Limit
1,1-Dichloroethane	<	0.2	ug/L	0.2
1,2-Dichloroethane	<	0.2	ug/L	0.2
1,1-Dichloroethene	<	0.5	ug/L	0.5
cis-1,2-Dichloroethene	<	0.2	ug/L	0.2
trans-1,2-Dichloroethene	<	0.1	ug/L	0.1
Dichlorofluoromethane	<	0.5	ug/L	0.5
1,2-Dichloropropane	<	0.2	ug/L	0.2
1,3-Dichloropropane	<	0.2	ug/L	0.2
2,2-Dichloropropane	<	0.5	ug/L	0.5
1,1-Dichloropropene	<	0.2	ug/L	0.2
cis-1,3-Dichloropropene	<	0.2	ug/L	0.2
trans-1,3-Dichloropropene	<	0.2	ug/L	0.2
Ethylbenzene	<	0.5	ug/L	0.5
Ethyl ether	<	2.0	ug/L	2.0
Hexachlorobutadiene	<	1.0	ug/L	1.0
Isopropylbenzene	<	0.5	ug/L	0.5
p-Isopropyltoluene	<	0.5	ug/L	0.5
Methylene chloride	<	0.5	ug/L	0.5
Methyl ethyl ketone (MEK)	<	10	ug/L	10
Methyl isobutyl ketone (MIBK)	<	5.0	ug/L	5.0
Methyl tertiary butyl ether (MTBE)	<	2.0	ug/L	2.0
Naphthalene	<	1.0	ug/L	1.0
n-Propylbenzene	<	0.5	ug/L	0.5
Styrene	<	0.5	ug/L	0.5
1,1,1,2-Tetrachloroethane	<	0.2	ug/L	0.2
1,1,2,2-Tetrachloroethane	<	0.2	ug/L	0.2
Tetrachloroethene	<	0.2	ug/L	0.2
Tetrahydrofuran (THF)	<	10	ug/L	10
Toluene	<	0.5	ug/L	0.5
1,2,3-Trichlorobenzene	<	1.0	ug/L	1.0
1,2,4-Trichlorobenzene	<	0.5	ug/L	0.5
1,1,1-Trichloroethane	<	0.2	ug/L	0.2
1,1,2-Trichloroethane	<	0.2	ug/L	0.2
Trichloroethene (TCE)	<	0.1	ug/L	0.1

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Program: PL
Program Name: MPCA-32 METRO MERLA-SF
Request Number: 326353

Date Received: 09-MAY-2008
Date Generated: 06-JUN-2008

Samples: 200811238 - 200811247

Date Reported: 06-JUN-2008

Site ID	Project Name	Sampled By
-	REILLY	MIAKO USHIO

Quality Control Batch ID: 20080513.12 AN: 468

Method Blank

	Result	Report Level	Units	Control Limit
Trichlorofluoromethane	<	0.5	ug/L	0.5
1,2,3-Trichloropropane	<	0.5	ug/L	0.5
1,1,2-Trichlorotrifluoroethane	<	0.2	ug/L	0.2
1,2,4-Trimethylbenzene	<	0.5	ug/L	0.5
1,3,5-Trimethylbenzene	<	0.5	ug/L	0.5
Vinyl chloride	<	0.2	ug/L	0.2
o-Xylene	<	0.2	ug/L	0.2
p&m-Xylene	<	0.3	ug/L	0.3

Laboratory Control Samples

	Result Code	LCS %Recovery	LCSD %Recovery	Accept. Limits
4-Bromofluorobenzene (surrogate)		95	88	70-130
Dibromofluoromethane (surrogate)		101	100	70-130
1,2-Dichlorobenzene-D4 (surrogat		89	87	70-130
1,2-Dichloroethane-D4 (surrogate		101	103	70-130
Toluene-D8 (surrogate)		102	113	70-130

	Spike Level	Units	Spike %Rec	Dup %Rec	RPD	%Rec Req	RPD Req
Acetone	5	ug/L	19*	7*	95*	70-130	30
Allyl chloride	5	ug/L	95	95	0	70-130	30
Benzene	5	ug/L	102	104	2	70-130	30
Bromobenzene	5	ug/L	97	94	4	70-130	30
Bromochloromethane	5	ug/L	104	106	2	70-130	30
Bromodichloromethane	5	ug/L	94	93	1	70-130	30
Bromoform	5	ug/L	90	78	14	70-130	30
Bromomethane	5	ug/L	94	82	13	70-130	30
n-Butylbenzene	5	ug/L	75	77	2	70-130	30

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Program: PL
Program Name: MPCA-32 METRO MERLA-SF
Request Number: 326353

Date Received: 09-MAY-2008
Date Generated: 06-JUN-2008

Samples: 200811238 - 200811247

Date Reported: 06-JUN-2008

Site ID	Project Name	Sampled By
-	REILLY	MIAKO USHIO

Quality Control Batch ID: 20080513.12 AN: 468

Laboratory Control Samples

	Spike Level	Units	Spike %Rec	Dup %Rec	RPD	%Rec Req	RPD Req
sec-Butylbenzene	5	ug/L	84	86	2	70-130	30
tert-Butylbenzene	5	ug/L	80	81	2	70-130	30
Carbon tetrachloride	5	ug/L	98	102	4	70-130	30
Chlorobenzene	5	ug/L	98	101	2	70-130	30
Chlorodibromomethane	5	ug/L	97	95	2	70-130	30
Chloroethane	5	ug/L	117	103	12	70-130	30
Chloroform	5	ug/L	106	107	1	70-130	30
Chloromethane	5	ug/L	105	98	7	70-130	30
2-Chlorotoluene	5	ug/L	102	99	2	70-130	30
4-Chlorotoluene	5	ug/L	105	106	1	70-130	30
1,2-Dibromo-3-chloropropane (D	5	ug/L	83	88	6	70-130	30
1,2-Dibromoethane (EDB)	5	ug/L	103	106	3	70-130	30
Dibromomethane	5	ug/L	103	102	1	70-130	30
1,2-Dichlorobenzene	5	ug/L	96	95	1	70-130	30
1,3-Dichlorobenzene	5	ug/L	97	97	1	70-130	30
1,4-Dichlorobenzene	5	ug/L	94	94	0	70-130	30
Dichlorodifluoromethane	5	ug/L	117	109	7	70-130	30
1,1-Dichloroethane	5	ug/L	105	106	1	70-130	30
1,2-Dichloroethane	5	ug/L	106	106	0	70-130	30
1,1-Dichloroethene	5	ug/L	98	101	3	70-130	30
cis-1,2-Dichloroethene	5	ug/L	98	101	3	70-130	30
trans-1,2-Dichloroethene	5	ug/L	101	103	2	70-130	30
Dichlorofluoromethane	5	ug/L	113	104	8	70-130	30
1,2-Dichloropropane	5	ug/L	99	98	1	70-130	30
1,3-Dichloropropane	5	ug/L	103	107	4	70-130	30
2,2-Dichloropropane	5	ug/L	87	76	14	70-130	30
1,1-Dichloropropene	5	ug/L	99	100	2	70-130	30
cis-1,3-Dichloropropene	5	ug/L	77	80	4	70-130	30

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Program: PL
Program Name: MPCA-32 METRO MERLA-SF
Request Number: 326353

Date Received: 09-MAY-2008
Date Generated: 06-JUN-2008
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Samples: 200811238 - 200811247

Date Reported: 06-JUN-2008

Site ID	Project Name	Sampled By
-	REILLY	MIAKO USHIO

Quality Control Batch ID: 20080513.12 AN: 468

Laboratory Control Samples

	Spike Level	Units	Spike %Rec	Dup %Rec	RPD	%Rec Req	RPD Req
trans-1,3-Dichloropropene	5	ug/L	68*	82	19	70-130	30
Ethylbenzene	5	ug/L	103	110	7	70-130	30
Ethyl ether	5	ug/L	102	103	1	70-130	30
Hexachlorobutadiene	5	ug/L	87	87	0	70-130	30
Isopropylbenzene	5	ug/L	86	84	3	70-130	30
p-Isopropyltoluene	5	ug/L	79	79	1	70-130	30
Methylene chloride	5	ug/L	97	99	1	70-130	30
Methyl ethyl ketone (MEK)	5	ug/L	83	76	10	70-130	30
Methyl isobutyl ketone (MIBK)	5	ug/L	88	94	7	70-130	30
Methyl tertiary butyl ether (M	5	ug/L	97	99	2	70-130	30
Naphthalene	5	ug/L	68*	72	6	70-130	30
n-Propylbenzene	5	ug/L	85	85	0	70-130	30
Styrene	5	ug/L	87	94	7	70-130	30
1,1,1,2-Tetrachloroethane	5	ug/L	102	107	4	70-130	30
1,1,2,2-Tetrachloroethane	5	ug/L	101	98	2	70-130	30
Tetrachloroethene	5	ug/L	98	103	5	70-130	30
Tetrahydrofuran (THF)	5	ug/L	80	78	3	70-130	30
Toluene	5	ug/L	97	102	6	70-130	30
1,2,3-Trichlorobenzene	5	ug/L	82	86	5	70-130	30
1,2,4-Trichlorobenzene	5	ug/L	81	81	0	70-130	30
1,1,1-Trichloroethane	5	ug/L	102	105	2	70-130	30
1,1,2-Trichloroethane	5	ug/L	94	108	14	70-130	30
Trichloroethene (TCE)	5	ug/L	101	102	2	70-130	30
Trichlorofluoromethane	5	ug/L	104	98	5	70-130	30
1,2,3-Trichloropropane	5	ug/L	101	98	3	70-130	30
1,1,2-Trichlorotrifluoroethane	5	ug/L	97	99	2	70-130	30
1,2,4-Trimethylbenzene	5	ug/L	86	86	0	70-130	30
1,3,5-Trimethylbenzene	5	ug/L	84	84	0	70-130	30

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Program: PL
Program Name: MPCA-32 METRO MERLA-SF
Request Number: 326353

Date Received: 09-MAY-2008
Date Generated: 06-JUN-2008
Request Page: 45 of 59

Samples: 200811238 - 200811247

Date Reported: 06-JUN-2008

Site ID	Project Name	Sampled By
-	REILLY	MIAKO USHIO

Quality Control Batch ID: 20080513.12 AN: 468

Laboratory Control Samples

	Spike Level	Units	Spike %Rec	Dup %Rec	RPD	%Rec Req	RPD Req
Vinyl chloride	5	ug/L	105	99	6	70-130	30
o-Xylene	5	ug/L	94	102	8	70-130	30
p&m-Xylene	5	ug/L	89	94	6	70-130	30

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Program: PL
Program Name: MPCA-32 METRO MERLA-SF
Request Number: 326353

Date Received: 09-MAY-2008
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Samples: 200811238 - 200811247

Date Reported: 06-JUN-2008

Site ID	Project Name	Sampled By
-	REILLY	MIAKO USHIO

Quality Control Batch ID: 20080513.13 AN: 468

All samples analyzed in the batch

200810913, 200810932, 200810933, 200810950, 200810953, 200810954, 200811093, 200811094, 200811097, 200811243, 200811244, 200811246, 200811247, 200811327

VOCs in Water by GC/MS
EPA 524.2

Sample	Collection Date	Analysis Date	Analysis Time	Holding Time	Acceptable
200811243	06-MAY-08	14-MAY-08	8	14 DAYS	Y
200811244	06-MAY-08	14-MAY-08	8	14 DAYS	Y
200811246	06-MAY-08	14-MAY-08	8	14 DAYS	Y
200811247	06-MAY-08	14-MAY-08	8	14 DAYS	Y

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Program: PL
Program Name: MPCA-32 METRO MERLA-SF
Request Number: 326353

Date Received: 09-MAY-2008
Date Generated: 06-JUN-2008
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Samples: 200811238 - 200811247

Date Reported: 06-JUN-2008

Site ID	Project Name	Sampled By
-	REILLY	MIAKO USHIO

Quality Control Batch ID: 20080513.13 AN: 468

Method Blank

	Result Code	Surrogate % Recovery	Accept Limits
4-Bromofluorobenzene (surrogate)		104	70-130
Dibromofluoromethane (surrogate)		77	70-130
1,2-Dichlorobenzene-D4 (surrogate)		102	70-130
1,2-Dichloroethane-D4 (surrogate)		83	70-130
Toluene-D8 (surrogate)		111	70-130

	Result	Report Level	Units	Control Limit
Acetone	<	20	ug/L	20
Allyl chloride	<	0.5	ug/L	0.5
Benzene	<	0.2	ug/L	0.2
Bromobenzene	<	0.2	ug/L	0.2
Bromochloromethane	<	0.5	ug/L	0.5
Bromodichloromethane	<	0.2	ug/L	0.2
Bromoform	<	0.5	ug/L	0.5
Bromomethane	<	1.0	ug/L	1.0
n-Butylbenzene	<	0.5	ug/L	0.5
sec-Butylbenzene	<	0.5	ug/L	0.5
tert-Butylbenzene	<	0.5	ug/L	0.5
Carbon tetrachloride	<	0.2	ug/L	0.2
Chlorobenzene	<	0.2	ug/L	0.2
Chlorodibromomethane	<	0.5	ug/L	0.5
Chloroethane	<	0.5	ug/L	0.5
Chloroform	<	0.1	ug/L	0.1
Chloromethane	<	1.0	ug/L	1.0
2-Chlorotoluene	<	0.5	ug/L	0.5
4-Chlorotoluene	<	0.5	ug/L	0.5
1,2-Dibromo-3-chloropropane (DBCP)	<	2.0	ug/L	2.0
1,2-Dibromoethane (EDB)	<	0.5	ug/L	0.5
Dibromomethane	<	0.5	ug/L	0.5
1,2-Dichlorobenzene	<	0.2	ug/L	0.2
1,3-Dichlorobenzene	<	0.2	ug/L	0.2
1,4-Dichlorobenzene	<	0.2	ug/L	0.2
Dichlorodifluoromethane	<	1.0	ug/L	1.0

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Program: PL
Program Name: MPCA-32 METRO MERLA-SF
Request Number: 326353

Date Received: 09-MAY-2008
Date Generated: 06-JUN-2008

Samples: 200811238 - 200811247

Date Reported: 06-JUN-2008

Site ID	Project Name	Sampled By
-	REILLY	MIAKO USHIO

Quality Control Batch ID: 20080513.13 AN: 468

Method Blank

	Result	Report Level	Units	Control Limit
1,1-Dichloroethane	<	0.2	ug/L	0.2
1,2-Dichloroethane	<	0.2	ug/L	0.2
1,1-Dichloroethene	<	0.5	ug/L	0.5
cis-1,2-Dichloroethene	<	0.2	ug/L	0.2
trans-1,2-Dichloroethene	<	0.1	ug/L	0.1
Dichlorofluoromethane	<	0.5	ug/L	0.5
1,2-Dichloropropane	<	0.2	ug/L	0.2
1,3-Dichloropropane	<	0.2	ug/L	0.2
2,2-Dichloropropane	<	0.5	ug/L	0.5
1,1-Dichloropropene	<	0.2	ug/L	0.2
cis-1,3-Dichloropropene	<	0.2	ug/L	0.2
trans-1,3-Dichloropropene	<	0.2	ug/L	0.2
Ethylbenzene	<	0.5	ug/L	0.5
Ethyl ether	<	2.0	ug/L	2.0
Hexachlorobutadiene	<	1.0	ug/L	1.0
Isopropylbenzene	<	0.5	ug/L	0.5
p-Isopropyltoluene	<	0.5	ug/L	0.5
Methylene chloride	<	0.5	ug/L	0.5
Methyl ethyl ketone (MEK)	<	10	ug/L	10
Methyl isobutyl ketone (MIBK)	<	5.0	ug/L	5.0
Methyl tertiary butyl ether (MTBE)	<	2.0	ug/L	2.0
Naphthalene	<	1.0	ug/L	1.0
n-Propylbenzene	<	0.5	ug/L	0.5
Styrene	<	0.5	ug/L	0.5
1,1,1,2-Tetrachloroethane	<	0.2	ug/L	0.2
1,1,2,2-Tetrachloroethane	<	0.2	ug/L	0.2
Tetrachloroethene	<	0.2	ug/L	0.2
Tetrahydrofuran (THF)	<	10	ug/L	10
Toluene	<	0.5	ug/L	0.5
1,2,3-Trichlorobenzene	<	1.0	ug/L	1.0
1,2,4-Trichlorobenzene	<	0.5	ug/L	0.5
1,1,1-Trichloroethane	<	0.2	ug/L	0.2
1,1,2-Trichloroethane	<	0.2	ug/L	0.2
Trichloroethene (TCE)	<	0.1	ug/L	0.1

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Program: PL
Program Name: MPCA-32 METRO MERLA-SF
Request Number: 326353

Date Received: 09-MAY-2008
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Samples: 200811238 - 200811247

Date Reported: 06-JUN-2008

Site ID	Project Name	Sampled By
-	REILLY	MIAKO USHIO

Quality Control Batch ID: 20080513.13 AN: 468

Method Blank

	Result	Report Level	Units	Control Limit
Trichlorofluoromethane	<	0.5	ug/L	0.5
1,2,3-Trichloropropane	<	0.5	ug/L	0.5
1,1,2-Trichlorotrifluoroethane	<	0.2	ug/L	0.2
1,2,4-Trimethylbenzene	<	0.5	ug/L	0.5
1,3,5-Trimethylbenzene	<	0.5	ug/L	0.5
Vinyl chloride	<	0.2	ug/L	0.2
o-Xylene	<	0.2	ug/L	0.2
p&m-Xylene	<	0.3	ug/L	0.3

Laboratory Control Samples

	Result Code	LCS %Recovery	LCSD %Recovery	Accept. Limits
4-Bromofluorobenzene (surrogate)		88	103	70-130
Dibromofluoromethane (surrogate)		100	101	70-130
1,2-Dichlorobenzene-D4 (surrogat		87	88	70-130
1,2-Dichloroethane-D4 (surrogate		103	101	70-130
Toluene-D8 (surrogate)		113	114	70-130

	Spike Level	Units	Spike %Rec	Dup %Rec	RPD	%Rec Req	RPD Req
Acetone	5	ug/L	7*	3*	72*	70-130	30
Allyl chloride	5	ug/L	95	87	9	70-130	30
Benzene	5	ug/L	104	107	3	70-130	30
Bromobenzene	5	ug/L	94	106	13	70-130	30
Bromochloromethane	5	ug/L	106	107	2	70-130	30
Bromodichloromethane	5	ug/L	93	103	11	70-130	30
Bromoform	5	ug/L	78	96	21	70-130	30
Bromomethane	5	ug/L	82	56*	38*	70-130	30
n-Butylbenzene	5	ug/L	77	75	2	70-130	30

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Program: PL
Program Name: MPCA-32 METRO MERLA-SF
Request Number: 326353

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Samples: 200811238 - 200811247

Date Reported: 06-JUN-2008

Site ID	Project Name	Sampled By
-	REILLY	MIAKO USHIO

Quality Control Batch ID: 20080513.13 AN:468

Laboratory Control Samples

	Spike Level	Units	Spike %Rec	Dup %Rec	RPD	%Rec Req	RPD Req
sec-Butylbenzene	5	ug/L	86	86	0	70-130	30
tert-Butylbenzene	5	ug/L	81	88	8	70-130	30
Carbon tetrachloride	5	ug/L	102	105	3	70-130	30
Chlorobenzene	5	ug/L	101	101	1	70-130	30
Chlorodibromomethane	5	ug/L	95	97	2	70-130	30
Chloroethane	5	ug/L	103	107	4	70-130	30
Chloroform	5	ug/L	107	111	3	70-130	30
Chloromethane	5	ug/L	98	103	5	70-130	30
2-Chlorotoluene	5	ug/L	99	112	12	70-130	30
4-Chlorotoluene	5	ug/L	106	116	9	70-130	30
1,2-Dibromo-3-chloropropane (D	5	ug/L	88	92	4	70-130	30
1,2-Dibromoethane (EDB)	5	ug/L	106	103	3	70-130	30
Dibromomethane	5	ug/L	102	108	5	70-130	30
1,2-Dichlorobenzene	5	ug/L	95	97	3	70-130	30
1,3-Dichlorobenzene	5	ug/L	97	100	3	70-130	30
1,4-Dichlorobenzene	5	ug/L	94	96	3	70-130	30
Dichlorodifluoromethane	5	ug/L	109	116	6	70-130	30
1,1-Dichloroethane	5	ug/L	106	108	2	70-130	30
1,2-Dichloroethane	5	ug/L	106	108	2	70-130	30
1,1-Dichloroethene	5	ug/L	101	95	7	70-130	30
cis-1,2-Dichloroethene	5	ug/L	101	102	1	70-130	30
trans-1,2-Dichloroethene	5	ug/L	103	100	3	70-130	30
Dichlorofluoromethane	5	ug/L	104	96	8	70-130	30
1,2-Dichloropropane	5	ug/L	98	104	6	70-130	30
1,3-Dichloropropane	5	ug/L	107	104	3	70-130	30
2,2-Dichloropropane	5	ug/L	76	66*	14	70-130	30
1,1-Dichloropropene	5	ug/L	100	103	3	70-130	30
cis-1,3-Dichloropropene	5	ug/L	80	77	4	70-130	30

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Program: PL
Program Name: MPCA-32 METRO MERLA-SF
Request Number: 326353

Date Received: 09-MAY-2008
Date Generated: 06-JUN-2008

Samples: 200811238 - 200811247

Date Reported: 06-JUN-2008

Site ID	Project Name	Sampled By
-	REILLY	MIAKO USHIO

Quality Control Batch ID: 20080513.13 AN: 468

Laboratory Control Samples

	Spike Level	Units	Spike %Rec	Dup %Rec	RPD	%Rec Req	RPD Req
trans-1,3-Dichloropropene	5	ug/L	82	79	3	70-130	30
Ethylbenzene	5	ug/L	110	106	4	70-130	30
Ethyl ether	5	ug/L	103	89	14	70-130	30
Hexachlorobutadiene	5	ug/L	87	94	8	70-130	30
Isopropylbenzene	5	ug/L	84	95	12	70-130	30
p-Isopropyltoluene	5	ug/L	79	80	1	70-130	30
Methylene chloride	5	ug/L	99	93	6	70-130	30
Methyl ethyl ketone (MEK)	5	ug/L	76	80	5	70-130	30
Methyl isobutyl ketone (MIBK)	5	ug/L	94	87	8	70-130	30
Methyl tertiary butyl ether (M	5	ug/L	99	90	9	70-130	30
Naphthalene	5	ug/L	72	72	1	70-130	30
n-Propylbenzene	5	ug/L	85	94	10	70-130	30
Styrene	5	ug/L	94	90	4	70-130	30
1,1,1,2-Tetrachloroethane	5	ug/L	107	106	1	70-130	30
1,1,2,2-Tetrachloroethane	5	ug/L	98	108	10	70-130	30
Tetrachloroethene	5	ug/L	103	102	0	70-130	30
Tetrahydrofuran (THF)	5	ug/L	78	80	3	70-130	30
Toluene	5	ug/L	102	105	2	70-130	30
1,2,3-Trichlorobenzene	5	ug/L	86	90	5	70-130	30
1,2,4-Trichlorobenzene	5	ug/L	81	87	7	70-130	30
1,1,1-Trichloroethane	5	ug/L	105	106	2	70-130	30
1,1,2-Trichloroethane	5	ug/L	108	104	4	70-130	30
Trichloroethene (TCE)	5	ug/L	102	104	2	70-130	30
Trichlorofluoromethane	5	ug/L	98	88	11	70-130	30
1,2,3-Trichloropropane	5	ug/L	98	108	10	70-130	30
1,1,2-Trichlorotrifluoroethane	5	ug/L	99	92	8	70-130	30
1,2,4-Trimethylbenzene	5	ug/L	86	94	9	70-130	30
1,3,5-Trimethylbenzene	5	ug/L	84	92	9	70-130	30

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Request Number: 326353

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Samples: 200811238 - 200811247

Date Reported: 06-JUN-2008

Site ID	Project Name	Sampled By
-	REILLY	MIAKO USHIO

Quality Control Batch ID: 20080513.13 AN: 468

Laboratory Control Samples

	Spike Level	Units	Spike %Rec	Dup %Rec	RPD	%Rec Req	RPD Req
Vinyl chloride	5	ug/L	99	102	3	70-130	30
o-Xylene	5	ug/L	102	98	4	70-130	30
p&m-Xylene	5	ug/L	94	92	2	70-130	30

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Samples: 200811238 - 200811247

Date Reported: 06-JUN-2008

Site ID	Project Name	Sampled By
-	REILLY	MIAKO USHIO

Quality Control Batch ID: 20080519.11 AN: 468

All samples analyzed in the batch

200810678, 200810679, 200810680, 200811245, 200812374, 200812375, 200812376, 200812377, 200812378, 200812379

VOCs in Water by GC/MS
EPA 524.2

Sample	Collection Date	Analysis Date	Analysis Time	Holding Time	Acceptable
200811245	06-MAY-08	19-MAY-08	13	14 DAYS	Y

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Samples: 200811238 - 200811247

Date Reported: 06-JUN-2008

Site ID	Project Name	Sampled By
-	REILLY	MIAKO USHIO

Quality Control Batch ID: 20080519.11 AN: 468

Method Blank

	Result Code	Surrogate % Recovery	Accept Limits
4-Bromofluorobenzene (surrogate)		95	70-130
Dibromofluoromethane (surrogate)		103	70-130
1,2-Dichlorobenzene-D4 (surrogate)		101	70-130
1,2-Dichloroethane-D4 (surrogate)		102	70-130
Toluene-D8 (surrogate)		106	70-130

	Result	Report Level	Units	Control Limit
Acetone	<	20	ug/L	20
Allyl chloride	<	0.5	ug/L	0.5
Benzene	<	0.2	ug/L	0.2
Bromobenzene	<	0.2	ug/L	0.2
Bromochloromethane	<	0.5	ug/L	0.5
Bromodichloromethane	<	0.2	ug/L	0.2
Bromoform	<	0.5	ug/L	0.5
Bromomethane	<	1.0	ug/L	1.0
n-Butylbenzene	<	0.5	ug/L	0.5
sec-Butylbenzene	<	0.5	ug/L	0.5
tert-Butylbenzene	<	0.5	ug/L	0.5
Carbon tetrachloride	<	0.2	ug/L	0.2
Chlorobenzene	<	0.2	ug/L	0.2
Chlorodibromomethane	<	0.5	ug/L	0.5
Chloroethane	<	0.5	ug/L	0.5
Chloroform	<	0.1	ug/L	0.1
Chloromethane	<	1.0	ug/L	1.0
2-Chlorotoluene	<	0.5	ug/L	0.5
4-Chlorotoluene	<	0.5	ug/L	0.5
1,2-Dibromo-3-chloropropane (DBCP)	<	2.0	ug/L	2.0
1,2-Dibromoethane (EDB)	<	0.5	ug/L	0.5
Dibromomethane	<	0.5	ug/L	0.5
1,2-Dichlorobenzene	<	0.2	ug/L	0.2
1,3-Dichlorobenzene	<	0.2	ug/L	0.2
1,4-Dichlorobenzene	<	0.2	ug/L	0.2
Dichlorodifluoromethane	<	1.0	ug/L	1.0

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Samples: 200811238 - 200811247

Date Reported: 06-JUN-2008

Site ID	Project Name	Sampled By
-	REILLY	MIAKO USHIO

Quality Control Batch ID: 20080519.11 AN: 468

Method Blank

	Result	Report Level	Units	Control Limit
1,1-Dichloroethane	<	0.2	ug/L	0.2
1,2-Dichloroethane	<	0.2	ug/L	0.2
1,1-Dichloroethene	<	0.5	ug/L	0.5
cis-1,2-Dichloroethene	<	0.2	ug/L	0.2
trans-1,2-Dichloroethene	<	0.1	ug/L	0.1
Dichlorofluoromethane	<	0.5	ug/L	0.5
1,2-Dichloropropane	<	0.2	ug/L	0.2
1,3-Dichloropropane	<	0.2	ug/L	0.2
2,2-Dichloropropane	<	0.5	ug/L	0.5
1,1-Dichloropropene	<	0.2	ug/L	0.2
cis-1,3-Dichloropropene	<	0.2	ug/L	0.2
trans-1,3-Dichloropropene	<	0.2	ug/L	0.2
Ethylbenzene	<	0.5	ug/L	0.5
Ethyl ether	<	2.0	ug/L	2.0
Hexachlorobutadiene	<	1.0	ug/L	1.0
Isopropylbenzene	<	0.5	ug/L	0.5
p-Isopropyltoluene	<	0.5	ug/L	0.5
Methylene chloride	<	0.5	ug/L	0.5
Methyl ethyl ketone (MEK)	<	10	ug/L	10
Methyl isobutyl ketone (MIBK)	<	5.0	ug/L	5.0
Methyl tertiary butyl ether (MTBE)	<	2.0	ug/L	2.0
Naphthalene	<	1.0	ug/L	1.0
n-Propylbenzene	<	0.5	ug/L	0.5
Styrene	<	0.5	ug/L	0.5
1,1,1,2-Tetrachloroethane	<	0.2	ug/L	0.2
1,1,2,2-Tetrachloroethane	<	0.2	ug/L	0.2
Tetrachloroethene	<	0.2	ug/L	0.2
Tetrahydrofuran (THF)	<	10	ug/L	10
Toluene	<	0.5	ug/L	0.5
1,2,3-Trichlorobenzene	<	1.0	ug/L	1.0
1,2,4-Trichlorobenzene	<	0.5	ug/L	0.5
1,1,1-Trichloroethane	<	0.2	ug/L	0.2
1,1,2-Trichloroethane	<	0.2	ug/L	0.2
Trichloroethene (TCE)	<	0.1	ug/L	0.1

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Samples: 200811238 - 200811247

Date Reported: 06-JUN-2008

Site ID	Project Name	Sampled By
-	REILLY	MIAKO USHIO

Quality Control Batch ID: 20080519.11 AN: 468

Method Blank

	Result	Report Level	Units	Control Limit
Trichlorofluoromethane	<	0.5	ug/L	0.5
1,2,3-Trichloropropane	<	0.5	ug/L	0.5
1,1,2-Trichlorotrifluoroethane	<	0.2	ug/L	0.2
1,2,4-Trimethylbenzene	<	0.5	ug/L	0.5
1,3,5-Trimethylbenzene	<	0.5	ug/L	0.5
Vinyl chloride	<	0.2	ug/L	0.2
o-Xylene	<	0.2	ug/L	0.2
p&m-Xylene	<	0.3	ug/L	0.3

Laboratory Control Samples

	Result Code	LCS %Recovery	LCSD %Recovery	Accept. Limits
4-Bromofluorobenzene (surrogate)		90	89	70-130
Dibromofluoromethane (surrogate)		105	104	70-130
1,2-Dichlorobenzene-D4 (surrogat		88	89	70-130
1,2-Dichloroethane-D4 (surrogate		99	101	70-130
Toluene-D8 (surrogate)		108	108	70-130

	Spike Level	Units	Spike %Rec	Dup %Rec	RPD	%Rec Req	RPD Req
Acetone	5	ug/L	90	110	20	70-130	30
Allyl chloride	5	ug/L	95	95	0	70-130	30
Benzene	5	ug/L	96	101	5	70-130	30
Bromobenzene	5	ug/L	97	99	2	70-130	30
Bromochloromethane	5	ug/L	105	110	5	70-130	30
Bromodichloromethane	5	ug/L	101	101	0	70-130	30
Bromoform	5	ug/L	101	96	5	70-130	30
Bromomethane	5	ug/L	84	67*	22	70-130	30
n-Butylbenzene	5	ug/L	70	72	4	70-130	30

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Samples: 200811238 - 200811247

Date Reported: 06-JUN-2008

Site ID	Project Name	Sampled By
-	REILLY	MIAKO USHIO

Quality Control Batch ID: 20080519.11 AN: 468

Laboratory Control Samples

	Spike Level	Units	Spike %Rec	Dup %Rec	RPD	%Rec Req	RPD Req
sec-Butylbenzene	5	ug/L	79	81	2	70-130	30
tert-Butylbenzene	5	ug/L	76	78	3	70-130	30
Carbon tetrachloride	5	ug/L	107	107	0	70-130	30
Chlorobenzene	5	ug/L	94	98	4	70-130	30
Chlorodibromomethane	5	ug/L	102	99	2	70-130	30
Chloroethane	5	ug/L	111	118	6	70-130	30
Chloroform	5	ug/L	101	106	4	70-130	30
Chloromethane	5	ug/L	82	88	8	70-130	30
2-Chlorotoluene	5	ug/L	91	95	5	70-130	30
4-Chlorotoluene	5	ug/L	94	99	4	70-130	30
1,2-Dibromo-3-chloropropane (D	5	ug/L	80	80	0	70-130	30
1,2-Dibromoethane (EDB)	5	ug/L	98	102	4	70-130	30
Dibromomethane	5	ug/L	100	105	5	70-130	30
1,2-Dichlorobenzene	5	ug/L	93	97	4	70-130	30
1,3-Dichlorobenzene	5	ug/L	97	100	3	70-130	30
1,4-Dichlorobenzene	5	ug/L	94	97	4	70-130	30
Dichlorodifluoromethane	5	ug/L	98	101	3	70-130	30
1,1-Dichloroethane	5	ug/L	95	98	3	70-130	30
1,2-Dichloroethane	5	ug/L	97	102	4	70-130	30
1,1-Dichloroethene	5	ug/L	98	103	5	70-130	30
cis-1,2-Dichloroethene	5	ug/L	97	102	5	70-130	30
trans-1,2-Dichloroethene	5	ug/L	100	103	3	70-130	30
Dichlorofluoromethane	5	ug/L	104	109	4	70-130	30
1,2-Dichloropropane	5	ug/L	90	95	5	70-130	30
1,3-Dichloropropane	5	ug/L	91	96	6	70-130	30
2,2-Dichloropropane	5	ug/L	102	93	10	70-130	30
1,1-Dichloropropene	5	ug/L	97	99	3	70-130	30
cis-1,3-Dichloropropene	5	ug/L	77	76	1	70-130	30

Minnesota Department Of Health - Environmental Laboratory

Final Report - Client Copy - Report Of Analytical Results

Program: PL
Program Name: MPCA-32 METRO MERLA-SF
Request Number: 326353

Date Received: 09-MAY-2008
Date Generated: 06-JUN-2008

Samples: 200811238 - 200811247

Date Reported: 06-JUN-2008

Site ID	Project Name	Sampled By
-	REILLY	MIAKO USHIO

Quality Control Batch ID: 20080519.11 AN: 468

Laboratory Control Samples

	Spike Level	Units	Spike %Rec	Dup %Rec	RPD	%Rec Req	RPD Req
trans-1,3-Dichloropropene	5	ug/L	80	78	3	70-130	30
Ethylbenzene	5	ug/L	95	98	2	70-130	30
Ethyl ether	5	ug/L	94	98	4	70-130	30
Hexachlorobutadiene	5	ug/L	95	96	0	70-130	30
Isopropylbenzene	5	ug/L	80	82	2	70-130	30
p-Isopropyltoluene	5	ug/L	75	78	3	70-130	30
Methylene chloride	5	ug/L	93	99	7	70-130	30
Methyl ethyl ketone (MEK)	5	ug/L	80	87	8	70-130	30
Methyl isobutyl ketone (MIBK)	5	ug/L	78	79	2	70-130	30
Methyl tertiary butyl ether (M'	5	ug/L	93	96	3	70-130	30
Naphthalene	5	ug/L	69*	69*	0	70-130	30
n-Propylbenzene	5	ug/L	78	80	2	70-130	30
Styrene	5	ug/L	84	87	3	70-130	30
1,1,1,2-Tetrachloroethane	5	ug/L	103	103	0	70-130	30
1,1,2,2-Tetrachloroethane	5	ug/L	89	92	3	70-130	30
Tetrachloroethene	5	ug/L	105	108	3	70-130	30
Tetrahydrofuran (THF)	5	ug/L	91	92	1	70-130	30
Toluene	5	ug/L	93	97	4	70-130	30
1,2,3-Trichlorobenzene	5	ug/L	87	88	1	70-130	30
1,2,4-Trichlorobenzene	5	ug/L	86	88	3	70-130	30
1,1,1-Trichloroethane	5	ug/L	106	106	0	70-130	30
1,1,2-Trichloroethane	5	ug/L	93	98	5	70-130	30
Trichloroethene (TCE)	5	ug/L	99	102	2	70-130	30
Trichlorofluoromethane	5	ug/L	106	108	2	70-130	30
1,2,3-Trichloropropane	5	ug/L	87	87	0	70-130	30
1,1,2-Trichlorotrifluoroethane	5	ug/L	110	113	3	70-130	30
1,2,4-Trimethylbenzene	5	ug/L	81	83	3	70-130	30
1,3,5-Trimethylbenzene	5	ug/L	79	81	2	70-130	30

Minnesota Department Of Health - Environmental Laboratory

Final Report - Client Copy - Report Of Analytical Results

Program: PL
Program Name: MPCA-32 METRO MERLA-SF
Request Number: 326353

Date Received: 09-MAY-2008
Date Generated: 06-JUN-2008

Samples: 200811238 - 200811247

Date Reported: 06-JUN-2008

Site ID	Project Name	Sampled By
-	REILLY	MIAKO USHIO

Quality Control Batch ID: 20080519.11 AN: 468

Laboratory Control Samples

	Spike Level	Units	Spike %Rec	Dup %Rec	RPD	%Rec Req	RPD Req
Vinyl chloride	5	ug/L	91	97	6	70-130	30
o-Xylene	5	ug/L	91	93	3	70-130	30
p&m-Xylene	5	ug/L	84	88	4	70-130	30

MDH Chain of Custody

Public Health Laboratory

Minnesota Department of Health
Chemical Laboratory
717Delaware Street S.E.
Minneapolis, Minnesota 55440

Client/Agency MPCA
Project Name Reilly Tar VOC
Site ID Reilly
Program Code (2 letters) PL
Contact Name Nile Fellows (MPCA)
Contact Phone # 651-296-7299

MDH 1000 № 21776

Report to MPCA MAY 2'00 PM

Address if Needed

SAMPLER COMMENTS

Potential Hazard: Yes/No/Unknown (Circle One)
If Yes: Chemical/Biological/Other_____(Circle One)
Standard/Civil/Criminal Chain of Custody (Circle One)

Sampled By (Print) Andrew J. Taram
Affiliation ENSR Corporation
Sampler Signature A J Taram
Phone 952 924 0117

ORIGINAL

Item #	Field ID	Sample Source/Point	Collection Date MM/DD/YYYY	Time (24 Hour Clock)	MDH Sample Number (Lab Use Only)	Matrix	General (None)	Nutrient (H2SO4)	Metals (HNO3)	VOC	Semi	DRO	GRO	Se		
1	✓	W401-043008	4/30/08	830	10147	GW				3						→ Not in MDH vial. Green cap vial indicates HCl preserved.
2	✓	H6-043008		935	150											
3		SLP4-043008		1130	151											
4		SLP6-043008		1200	152											
5		MTK6-043008		1345	153											
6		W402-043008		1610	154											
7		E2-050108	5/1/08	815	155	GW				3						
8		E13-050108		915	156											
9		E15-050108		845	157											
10		SLP4T-050108		1030	158											

SAMPLER COMMENTS:
RECEIVING COMMENTS:
LAB TEMP 1°/11°C
SEAL INTACT: YES / NO

ITEM NO.	RELINQUISHED BY/AFFIALIATION		TIME	DATE	ACCEPTED BY/AFFIALIATION	TIME	DATE
	A J Taram	ENSR	11:10	5/2/08			
	Nile Fellows		11:45	5/2/08	[illegible]	11:44	5-2-08

White Lab Copy Yellow Client Copy Pink Submitter Copy

MINNESOTA MDH DEPARTMENT of HEALTH

Protecting, maintaining and improving the health of all Minnesotans

Report Date: 19-MAY-2008

Client Name: MPCA-GW & SW
Project Code: PL
Project Name: MPCA-32 METRO MERLA-SF

Samples: 200810149 — 200810158

Report To: Bill Scruton
MPCA-GW & SW
520 Lafayette Rd.
St. Paul, MN 55155

The MDH Public Health Laboratory performs chemical, bacteriological and radiological analyses of environmental samples including water, waste water, sediment, air, soil and hazardous material. The laboratory provides testing services in accordance with standard operating procedures referencing approved methodology and defined in Standard Methods for the Examination of Water and Wastewater, Test Methods for Evaluating Solid Waster, Physical/Chemical Methods:EPA SW-846, and 40 Code of Federal Regulation (CFR) parts 136, 141, and 261. In cases where analytes of interest do not have corresponding EPA approved methodology, the MDH Public Health Laboratory uses in-house methods that have undergone rigorous validation and documentation.

The results within this report are in compliance with the terms and conditions state in the standard operation procedures, reference methodologies, and quality assurance project plan; unless otherwise narrated in the attached report.

Release of the data contained in this report has been authorized by laboratory management and is verified with the following signature affirmation. Thank you for using the MDH Public Health Laboratory. If you have any questions regarding this report, please call us at 651.201.5300.

Sincerely,

Suzanne Skorich
Environmental Laboratory, Quality Assurance Officer

Minnesota Department Of Health - Environmental Laboratory

Final Report - Client Copy - Report Of Analytical Results

Program: PL
Program Name: MPCA-32 METRO MERLA-SF
Request Number: 325816

Date Received: 02-MAY-2008
Date Generated: 19-MAY-2008
Request Page: 1 of 46

Samples: 200810149 - 200810158

Date Reported: 19-MAY-2008

Site ID	Project Name	Sampled By
REILLY	REILLY TAR VOC	ANDREW J TARARA

Sample No: 200810149

Receiving Comments: Received in green capped vials, but indicate HCl preservation. Not in MDH vial.

Coll Date	Coll Time	Field No	Sampling Point
30-APR-2008	0830	-	W401-043008

Trip Blank	Field Blank
200810163	-

********** SAMPLE RESULTS **********

Unit: ORGANIC CHEMISTRY Reviewed By PDS on 19-MAY-08

Note: Positive Organic Results are indicated by BOLD.

	Result Codes	Result	Rept Level	Units	Analysis Date
468 VOCs in Water by GC/MS -EPA 524.2					
4-Bromofluorobenzene (surrogate)		100	70-130	% Recovery	07-MAY-08 06:50
Dibromofluoromethane (surrogate)		102	70-130	% Recovery	07-MAY-08 06:50
1,2-Dichlorobenzene-D4 (surrogate)		100	70-130	% Recovery	07-MAY-08 06:50
1,2-Dichloroethane-D4 (surrogate)		103	70-130	% Recovery	07-MAY-08 06:50
Toluene-D8 (surrogate)		103	70-130	% Recovery	07-MAY-08 06:50
Acetone	<	20	20	ug/L	07-MAY-08 06:50
Allyl chloride	<	0.5	0.5	ug/L	07-MAY-08 06:50
Benzene	J	**0.1**	**0.2**	**ug/L**	**07-MAY-08 06:50**
Bromobenzene	<	0.2	0.2	ug/L	07-MAY-08 06:50
Bromochloromethane	<	0.5	0.5	ug/L	07-MAY-08 06:50
Bromodichloromethane	<	0.2	0.2	ug/L	07-MAY-08 06:50
Bromoform	QR <	0.5	0.5	ug/L	07-MAY-08 06:50
Bromomethane	QR <	1.0	1.0	ug/L	07-MAY-08 06:50
n-Butylbenzene	<	0.5	0.5	ug/L	07-MAY-08 06:50
sec-Butylbenzene	<	0.5	0.5	ug/L	07-MAY-08 06:50
tert-Butylbenzene	<	0.5	0.5	ug/L	07-MAY-08 06:50
Carbon tetrachloride	<	0.2	0.2	ug/L	07-MAY-08 06:50
Chlorobenzene	<	0.2	0.2	ug/L	07-MAY-08 06:50
Chlorodibromomethane	<	0.5	0.5	ug/L	07-MAY-08 06:50
Chloroethane	<	0.5	0.5	ug/L	07-MAY-08 06:50
Chloroform	<	0.1	0.1	ug/L	07-MAY-08 06:50
Chloromethane	<	1.0	1.0	ug/L	07-MAY-08 06:50
2-Chlorotoluene	<	0.5	0.5	ug/L	07-MAY-08 06:50
4-Chlorotoluene	<	0.5	0.5	ug/L	07-MAY-08 06:50

Minnesota Department Of Health - Environmental Laboratory

Final Report - Client Copy - Report Of Analytical Results

Program: PL
Program Name: MPCA-32 METRO MERLA-SF
Request Number: 325816

Date Received: 02-MAY-2008
Date Generated: 19-MAY-2008
Request Page: 2 of 46

Samples: 200810149 - 200810158

Date Reported: 19-MAY-2008

Site ID	Project Name	Sampled By
REILLY	REILLY TAR VOC	ANDREW J TARARA

Sample No: 200810149

Receiving Comments: Received in green capped vials, but indicate HCl preservation. Not in MDH vial.

Coll Date	Coll Time	Field No	Sampling Point
30-APR-2008	0830	-	W401-043008

Trip Blank	Field Blank
200810163	-

********** SAMPLE RESULTS **********

Unit: ORGANIC CHEMISTRY Reviewed By PDS on 19-MAY-08

Note: Positive Organic Results are indicated by BOLD.

	Result Codes	Result	Rept Level	Units	Analysis Date
468 VOCs in Water by GC/MS -EPA 524.2					
1,2-Dibromo-3-chloropropane (DBCP)	<	2.0	2.0	ug/L	07-MAY-08 06:50
1,2-Dibromoethane (EDB)	<	0.5	0.5	ug/L	07-MAY-08 06:
Dibromomethane	<	0.5	0.5	ug/L	07-MAY-08 06
1,2-Dichlorobenzene	<	0.2	0.2	ug/L	07-MAY-08 06
1,3-Dichlorobenzene	<	0.2	0.2	ug/L	07-MAY-08 06:
1,4-Dichlorobenzene	<	0.2	0.2	ug/L	07-MAY-08 06
Dichlorodifluoromethane	QR <	1.0	1.0	ug/L	07-MAY-08 06
1,1-Dichloroethane		**9.0**	**0.2**	**ug/L**	**07-MAY-08 06:**
1,2-Dichloroethane	<	0.2	0.2	ug/L	07-MAY-08 06:
1,1-Dichloroethene		**0.9**	**0.5**	**ug/L**	**07-MAY-08 06**
cis-1,2-Dichloroethene		**10**	**0.2**	**ug/L**	**07-MAY-08 06:**
trans-1,2-Dichloroethene		**0.4**	**0.1**	**ug/L**	**07-MAY-08 06:**
Dichlorofluoromethane	<	0.5	0.5	ug/L	07-MAY-08 06
1,2-Dichloropropane	<	0.2	0.2	ug/L	07-MAY-08 06
1,3-Dichloropropane	<	0.2	0.2	ug/L	07-MAY-08 06:
2,2-Dichloropropane	QR <	0.5	0.5	ug/L	07-MAY-08 06:
1,1-Dichloropropene	<	0.2	0.2	ug/L	07-MAY-08 06:
cis-1,3-Dichloropropene	<	0.2	0.2	ug/L	07-MAY-08 06:
trans-1,3-Dichloropropene	<	0.2	0.2	ug/L	07-MAY-08 06:
Ethylbenzene	<	0.5	0.5	ug/L	07-MAY-08 06:
Ethyl ether	<	2.0	2.0	ug/L	07-MAY-08 06:
Hexachlorobutadiene	<	1.0	1.0	ug/L	07-MAY-08 06:
Isopropylbenzene	<	0.5	0.5	ug/L	07-MAY-08 06:
p-Isopropyltoluene	<	0.5	0.5	ug/L	07-MAY-08 06:

Minnesota Department Of Health - Environmental Laboratory

Final Report - Client Copy - Report Of Analytical Results

Program: PL
Program Name: MPCA-32 METRO MERLA-SF
Request Number: 325816

Date Received: 02-MAY-2008
Date Generated: 19-MAY-2008
Request Page: 3 of 46

Samples: 200810149 - 200810158

Date Reported: 19-MAY-2008

Site ID	Project Name	Sampled By
REILLY	REILLY TAR VOC	ANDREW J TARARA

Sample No: 200810149

Receiving Comments: Received in green capped vials, but indicate HCl preservation. Not in MDH vial.

Coll Date	Coll Time	Field No	Sampling Point
30-APR-2008	0830	-	W401-043008

Trip Blank	Field Blank
200810163	-

********** SAMPLE RESULTS **********

Unit: ORGANIC CHEMISTRY Reviewed By PDS on 19-MAY-08

Note: Positive Organic Results are indicated by BOLD.

	Result Codes	Result	Rept Level	Units	Analysis Date
468 VOCs in Water by GC/MS -EPA 524.2					
Methylene chloride	<	0.5	0.5	ug/L	07-MAY-08 06:50
Methyl ethyl ketone (MEK)	<	10	10	ug/L	07-MAY-08 06:50
Methyl isobutyl ketone (MIBK)	<	5.0	5.0	ug/L	07-MAY-08 06:50
Methyl tertiary butyl ether (MTBE)	<	2.0	2.0	ug/L	07-MAY-08 06:50
Naphthalene	<	1.0	1.0	ug/L	07-MAY-08 06:50
n-Propylbenzene	<	0.5	0.5	ug/L	07-MAY-08 06:50
Styrene	<	0.5	0.5	ug/L	07-MAY-08 06:50
1,1,1,2-Tetrachloroethane	<	0.2	0.2	ug/L	07-MAY-08 06:50
1,1,2,2-Tetrachloroethane	<	0.2	0.2	ug/L	07-MAY-08 06:50
Tetrachloroethene	<	0.2	0.2	ug/L	07-MAY-08 06:50
Tetrahydrofuran (THF)	QO <	10	10	ug/L	07-MAY-08 06:50
Toluene	<	0.5	0.5	ug/L	07-MAY-08 06:50
1,2,3-Trichlorobenzene	<	1.0	1.0	ug/L	07-MAY-08 06:50
1,2,4-Trichlorobenzene	<	0.5	0.5	ug/L	07-MAY-08 06:50
1,1,1-Trichloroethane	**J**	**0.1**	**0.2**	**ug/L**	**07-MAY-08 06:50**
1,1,2-Trichloroethane	<	0.2	0.2	ug/L	07-MAY-08 06:50
Trichloroethene (TCE)		**2.4**	**0.1**	**ug/L**	**07-MAY-08 06:50**
Trichlorofluoromethane	<	0.5	0.5	ug/L	07-MAY-08 06:50
1,2,3-Trichloropropane	<	0.5	0.5	ug/L	07-MAY-08 06:50
1,1,2-Trichlorotrifluoroethane	<	0.2	0.2	ug/L	07-MAY-08 06:50
1,2,4-Trimethylbenzene	<	0.5	0.5	ug/L	07-MAY-08 06:50
1,3,5-Trimethylbenzene	<	0.5	0.5	ug/L	07-MAY-08 06:50
Vinyl chloride		**0.5**	**0.2**	**ug/L**	**07-MAY-08 06:50**
o-Xylene	<	0.2	0.2	ug/L	07-MAY-08 06:50

Minnesota Department Of Health - Environmental Laboratory

Final Report - Client Copy - Report Of Analytical Results

Program: PL
Program Name: MPCA-32 METRO MERLA-SF
Request Number: 325816

Date Received: 02-MAY-2008
Date Generated: 19-MAY-2008

Samples: 200810149 - 200810158

Date Reported: 19-MAY-2008

Site ID	Project Name	Sampled By
REILLY	REILLY TAR VOC	ANDREW J TARARA

Sample No: 200810149

Receiving Comments: Received in green capped vials, but indicate HCl preservation. Not in MDH vial.

Coll Date	Coll Time	Field No	Sampling Point
30-APR-2008	0830	-	W401-043008

Trip Blank	Field Blank
200810163	-

********** SAMPLE RESULTS **********

Unit: ORGANIC CHEMISTRY Reviewed By PDS on 19-MAY-08

Note: Positive Organic Results are indicated by BOLD.

	Result Codes	Result	Rept Level	Units	Analysis Date
468 VOCs in Water by GC/MS -EPA 524.2					
p&m-Xylene	<	0.3	0.3	ug/L	07-MAY-08 06:

Minnesota Department Of Health - Environmental Laboratory

Final Report - Client Copy - Report Of Analytical Results

Program: PL
Program Name: MPCA-32 METRO MERLA-SF
Request Number: 325816

Date Received: 02-MAY-2008
Date Generated: 19-MAY-2008
Request Page: 5 of 46

Samples: 200810149 - 200810158

Date Reported: 19-MAY-2008

Site ID	Project Name	Sampled By
REILLY	REILLY TAR VOC	ANDREW J TARARA

Sample No: 200810150

Receiving Comments: -

Coll Date	Coll Time	Field No	Sampling Point
30-APR-2008	0935	-	H6-043008

Trip Blank	Field Blank
200810163	-

********** SAMPLE RESULTS **********

Unit: ORGANIC CHEMISTRY Reviewed By PDS on 19-MAY-08

Note: Positive Organic Results are indicated by BOLD.

	Result Codes	Result	Rept Level	Units	Analysis Date
468 VOCs in Water by GC/MS -EPA 524.2					
4-Bromofluorobenzene (surrogate)		**102**	**70-130**	**% Recovery**	**07-MAY-08 07:19**
Dibromofluoromethane (surrogate)		**103**	**70-130**	**% Recovery**	**07-MAY-08 07:19**
1,2-Dichlorobenzene-D4 (surrogate)		**102**	**70-130**	**% Recovery**	**07-MAY-08 07:19**
1,2-Dichloroethane-D4 (surrogate)		**107**	**70-130**	**% Recovery**	**07-MAY-08 07:19**
Toluene-D8 (surrogate)		**103**	**70-130**	**% Recovery**	**07-MAY-08 07:19**
Acetone	<	20	20	ug/L	07-MAY-08 07:19
Allyl chloride	<	0.5	0.5	ug/L	07-MAY-08 07:19
Benzene	<	0.2	0.2	ug/L	07-MAY-08 07:19
Bromobenzene	<	0.2	0.2	ug/L	07-MAY-08 07:19
Bromochloromethane	<	0.5	0.5	ug/L	07-MAY-08 07:19
Bromodichloromethane	<	0.2	0.2	ug/L	07-MAY-08 07:19
Bromoform	QR <	0.5	0.5	ug/L	07-MAY-08 07:19
Bromomethane	QR <	1.0	1.0	ug/L	07-MAY-08 07:19
n-Butylbenzene	<	0.5	0.5	ug/L	07-MAY-08 07:19
sec-Butylbenzene	<	0.5	0.5	ug/L	07-MAY-08 07:19
tert-Butylbenzene	<	0.5	0.5	ug/L	07-MAY-08 07:19
Carbon tetrachloride	<	0.2	0.2	ug/L	07-MAY-08 07:19
Chlorobenzene	<	0.2	0.2	ug/L	07-MAY-08 07:19
Chlorodibromomethane	<	0.5	0.5	ug/L	07-MAY-08 07:19
Chloroethane	<	0.5	0.5	ug/L	07-MAY-08 07:19
Chloroform	<	0.1	0.1	ug/L	07-MAY-08 07:19
Chloromethane	<	1.0	1.0	ug/L	07-MAY-08 07:19
2-Chlorotoluene	<	0.5	0.5	ug/L	07-MAY-08 07:19
4-Chlorotoluene	<	0.5	0.5	ug/L	07-MAY-08 07:19
1,2-Dibromo-3-chloropropane (DBCP)	<	2.0	2.0	ug/L	07-MAY-08 07:19
1,2-Dibromoethane (EDB)	<	0.5	0.5	ug/L	07-MAY-08 07:19

Minnesota Department Of Health - Environmental Laboratory

Final Report - Client Copy - Report Of Analytical Results

Program: PL
Program Name: MPCA-32 METRO MERLA-SF
Request Number: 325816

Date Received: 02-MAY-2008
Date Generated: 19-MAY-2008
Request Page: 6 of 46

Samples: 200810149 - 200810158

Date Reported: 19-MAY-2008

Site ID	Project Name	Sampled By
REILLY	REILLY TAR VOC	ANDREW J TARARA

Sample No: 200810150

Receiving Comments: -

Coll Date	Coll Time	Field No	Sampling Point
30-APR-2008	0935	-	H6-043008

Trip Blank	Field Blank
200810163	-

********** SAMPLE RESULTS **********

Unit: ORGANIC CHEMISTRY Reviewed By PDS on 19-MAY-08

Note: Positive Organic Results are indicated by BOLD.

	Result Codes	Result	Rept Level	Units	Analysis Date
468 VOCs in Water by GC/MS -EPA 524.2					
Dibromomethane	<	0.5	0.5	ug/L	07-MAY-08 07
1,2-Dichlorobenzene	<	0.2	0.2	ug/L	07-MAY-08 07:
1,3-Dichlorobenzene	<	0.2	0.2	ug/L	07-MAY-08 07:
1,4-Dichlorobenzene	<	0.2	0.2	ug/L	07-MAY-08 07: 9
Dichlorodifluoromethane	QR <	1.0	1.0	ug/L	07-MAY-08 07
1,1-Dichloroethane	<	0.2	0.2	ug/L	07-MAY-08 07:
1,2-Dichloroethane	<	0.2	0.2	ug/L	07-MAY-08 07: 9
1,1-Dichloroethene	<	0.5	0.5	ug/L	07-MAY-08 07
cis-1,2-Dichloroethene		**0.3**	**0.2**	**ug/L**	**07-MAY-08 07:**
trans-1,2-Dichloroethene	<	0.1	0.1	ug/L	07-MAY-08 07 9
Dichlorofluoromethane	<	0.5	0.5	ug/L	07-MAY-08 07
1,2-Dichloropropane	<	0.2	0.2	ug/L	07-MAY-08 07:
1,3-Dichloropropane	<	0.2	0.2	ug/L	07-MAY-08 07:
2,2-Dichloropropane	QR <	0.5	0.5	ug/L	07-MAY-08 07: 9
1,1-Dichloropropene	<	0.2	0.2	ug/L	07-MAY-08 07
cis-1,3-Dichloropropene	<	0.2	0.2	ug/L	07-MAY-08 07:
trans-1,3-Dichloropropene	<	0.2	0.2	ug/L	07-MAY-08 07: 9
Ethylbenzene	<	0.5	0.5	ug/L	07-MAY-08 07
Ethyl ether	<	2.0	2.0	ug/L	07-MAY-08 07:
Hexachlorobutadiene	<	1.0	1.0	ug/L	07-MAY-08 07 9
Isopropylbenzene	<	0.5	0.5	ug/L	07-MAY-08 07: 9
p-Isopropyltoluene	<	0.5	0.5	ug/L	07-MAY-08 07:
Methylene chloride	<	0.5	0.5	ug/L	07-MAY-08 07:
Methyl ethyl ketone (MEK)	<	10	10	ug/L	07-MAY-08 07: 9
Methyl isobutyl ketone (MIBK)	<	5.0	5.0	ug/L	07-MAY-08 07:
Methyl tertiary butyl ether (MTBE)	<	2.0	2.0	ug/L	07-MAY-08 07:

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Program: PL
Program Name: MPCA-32 METRO MERLA-SF
Request Number: 325816

Date Received: 02-MAY-2008
Date Generated: 19-MAY-2008

Samples: 200810149 - 200810158

Date Reported: 19-MAY-2008

Site ID	Project Name	Sampled By
REILLY	REILLY TAR VOC	ANDREW J TARARA

Sample No: 200810150

Receiving Comments: -

Coll Date	Coll Time	Field No	Sampling Point
30-APR-2008	0935	-	H6-043008

Trip Blank	Field Blank
200810163	-

********** SAMPLE RESULTS **********

Unit: ORGANIC CHEMISTRY Reviewed By PDS on 19-MAY-08

Note: Positive Organic Results are indicated by BOLD.

	Result Codes	Result	Rept Level	Units	Analysis Date
468 VOCs in Water by GC/MS -EPA 524.2					
Naphthalene	<	1.0	1.0	ug/L	07-MAY-08 07:19
n-Propylbenzene	<	0.5	0.5	ug/L	07-MAY-08 07:19
Styrene	<	0.5	0.5	ug/L	07-MAY-08 07:19
1,1,1,2-Tetrachloroethane	<	0.2	0.2	ug/L	07-MAY-08 07:19
1,1,2,2-Tetrachloroethane	<	0.2	0.2	ug/L	07-MAY-08 07:19
Tetrachloroethene	<	0.2	0.2	ug/L	07-MAY-08 07:19
Tetrahydrofuran (THF)	QO <	10	10	ug/L	07-MAY-08 07:19
Toluene	<	0.5	0.5	ug/L	07-MAY-08 07:19
1,2,3-Trichlorobenzene	<	1.0	1.0	ug/L	07-MAY-08 07:19
1,2,4-Trichlorobenzene	<	0.5	0.5	ug/L	07-MAY-08 07:19
1,1,1-Trichloroethane	<	0.2	0.2	ug/L	07-MAY-08 07:19
1,1,2-Trichloroethane	<	0.2	0.2	ug/L	07-MAY-08 07:19
Trichloroethene (TCE)	<	0.1	0.1	ug/L	07-MAY-08 07:19
Trichlorofluoromethane	<	0.5	0.5	ug/L	07-MAY-08 07:19
1,2,3-Trichloropropane	<	0.5	0.5	ug/L	07-MAY-08 07:19
1,1,2-Trichlorotrifluoroethane	<	0.2	0.2	ug/L	07-MAY-08 07:19
1,2,4-Trimethylbenzene	<	0.5	0.5	ug/L	07-MAY-08 07:19
1,3,5-Trimethylbenzene	<	0.5	0.5	ug/L	07-MAY-08 07:19
Vinyl chloride	<	0.2	0.2	ug/L	07-MAY-08 07:19
o-Xylene	<	0.2	0.2	ug/L	07-MAY-08 07:19
p&m-Xylene	<	0.3	0.3	ug/L	07-MAY-08 07:19

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Program: PL
Program Name: MPCA-32 METRO MERLA-SF
Request Number: 325816

Date Received: 02-MAY-2008
Date Generated: 19-MAY-2008
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Samples: 200810149 - 200810158

Date Reported: 19-MAY-2008

Site ID	Project Name	Sampled By
REILLY	REILLY TAR VOC	ANDREW J TARARA

Sample No: 200810151

Receiving Comments: -

Coll Date	Coll Time	Field No	Sampling Point
30-APR-2008	1130	-	SLP4-043008

Trip Blank	Field Blank
200810163	-

********** SAMPLE RESULTS **********

Unit: ORGANIC CHEMISTRY Reviewed By PDS on 19-MAY-08

Note: Positive Organic Results are indicated by BOLD.

	Result Codes	Result	Rept Level	Units	Analysis Date
468 VOCs in Water by GC/MS -EPA 524.2					
4-Bromofluorobenzene (surrogate)		120	70-130	% Recovery	07-MAY-08 07:
Dibromofluoromethane (surrogate)		105	70-130	% Recovery	07-MAY-08 07:
1,2-Dichlorobenzene-D4 (surrogate)		102	70-130	% Recovery	07-MAY-08 07:
1,2-Dichloroethane-D4 (surrogate)		105	70-130	% Recovery	07-MAY-08 07:
Toluene-D8 (surrogate)		103	70-130	% Recovery	07-MAY-08 07:
Acetone	<	20	20	ug/L	07-MAY-08 07:
Allyl chloride	<	0.5	0.5	ug/L	07-MAY-08 07:
Benzene		**0.4**	**0.2**	**ug/L**	**07-MAY-08 07:**
Bromobenzene	<	0.2	0.2	ug/L	07-MAY-08 07:
Bromochloromethane	<	0.5	0.5	ug/L	07-MAY-08 07:
Bromodichloromethane	<	0.2	0.2	ug/L	07-MAY-08 07:
Bromoform	QR <	0.5	0.5	ug/L	07-MAY-08 07:
Bromomethane	QR <	1.0	1.0	ug/L	07-MAY-08 07:
n-Butylbenzene	<	0.5	0.5	ug/L	07-MAY-08 07:
sec-Butylbenzene	<	0.5	0.5	ug/L	07-MAY-08 07:
tert-Butylbenzene	<	0.5	0.5	ug/L	07-MAY-08 07:
Carbon tetrachloride	<	0.2	0.2	ug/L	07-MAY-08 07:
Chlorobenzene	<	0.2	0.2	ug/L	07-MAY-08 07:
Chlorodibromomethane	<	0.5	0.5	ug/L	07-MAY-08 07:
Chloroethane	<	0.5	0.5	ug/L	07-MAY-08 07:
Chloroform	<	0.1	0.1	ug/L	07-MAY-08 07:
Chloromethane	<	1.0	1.0	ug/L	07-MAY-08 07:
2-Chlorotoluene	<	0.5	0.5	ug/L	07-MAY-08 07:
4-Chlorotoluene	<	0.5	0.5	ug/L	07-MAY-08 07:
1,2-Dibromo-3-chloropropane (DBCP)	<	2.0	2.0	ug/L	07-MAY-08 07:
1,2-Dibromoethane (EDB)	<	0.5	0.5	ug/L	07-MAY-08 07:

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Program: PL
Program Name: MPCA-32 METRO MERLA-SF
Request Number: 325816

Date Received: 02-MAY-2008
Date Generated: 19-MAY-2008
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Samples: 200810149 - 200810158

Date Reported: 19-MAY-2008

Site ID	Project Name	Sampled By
REILLY	REILLY TAR VOC	ANDREW J TARARA

Sample No: 200810151

Receiving Comments: -

Coll Date	Coll Time	Field No	Sampling Point
30-APR-2008	1130	-	SLP4-043008

Trip Blank	Field Blank
200810163	-

********** SAMPLE RESULTS **********

Unit: ORGANIC CHEMISTRY Reviewed By PDS on 19-MAY-08

Note: Positive Organic Results are indicated by BOLD.

	Result Codes	Result	Rept Level	Units	Analysis Date
468 VOCs in Water by GC/MS -EPA 524.2					
Dibromomethane	<	0.5	0.5	ug/L	07-MAY-08 07:47
1,2-Dichlorobenzene	<	0.2	0.2	ug/L	07-MAY-08 07:47
1,3-Dichlorobenzene	<	0.2	0.2	ug/L	07-MAY-08 07:47
1,4-Dichlorobenzene	<	0.2	0.2	ug/L	07-MAY-08 07:47
Dichlorodifluoromethane	QR <	1.0	1.0	ug/L	07-MAY-08 07:47
1,1-Dichloroethane	J	0.1	0.2	ug/L	07-MAY-08 07:47
1,2-Dichloroethane	J	0.1	0.2	ug/L	07-MAY-08 07:47
1,1-Dichloroethene	<	0.5	0.5	ug/L	07-MAY-08 07:47
cis-1,2-Dichloroethene		8.7	0.2	ug/L	07-MAY-08 07:47
trans-1,2-Dichloroethene		0.7	0.1	ug/L	07-MAY-08 07:47
Dichlorofluoromethane		1.2	0.5	ug/L	07-MAY-08 07:47
1,2-Dichloropropane	<	0.2	0.2	ug/L	07-MAY-08 07:47
1,3-Dichloropropane	<	0.2	0.2	ug/L	07-MAY-08 07:47
2,2-Dichloropropane	QR <	0.5	0.5	ug/L	07-MAY-08 07:47
1,1-Dichloropropene	<	0.2	0.2	ug/L	07-MAY-08 07:47
cis-1,3-Dichloropropene	<	0.2	0.2	ug/L	07-MAY-08 07:47
trans-1,3-Dichloropropene	<	0.2	0.2	ug/L	07-MAY-08 07:47
Ethylbenzene	<	0.5	0.5	ug/L	07-MAY-08 07:47
Ethyl ether	<	2.0	2.0	ug/L	07-MAY-08 07:47
Hexachlorobutadiene	<	1.0	1.0	ug/L	07-MAY-08 07:47
Isopropylbenzene	<	0.5	0.5	ug/L	07-MAY-08 07:47
p-Isopropyltoluene	<	0.5	0.5	ug/L	07-MAY-08 07:47
Methylene chloride	<	0.5	0.5	ug/L	07-MAY-08 07:47
Methyl ethyl ketone (MEK)	<	10	10	ug/L	07-MAY-08 07:47
Methyl isobutyl ketone (MIBK)	<	5.0	5.0	ug/L	07-MAY-08 07:47
Methyl tertiary butyl ether (MTBE)	<	2.0	2.0	ug/L	07-MAY-08 07:47

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Program: PL
Program Name: MPCA-32 METRO MERLA-SF
Request Number: 325816

Date Received: 02-MAY-2008
Date Generated: 19-MAY-2008

Samples: 200810149 - 200810158

Date Reported: 19-MAY-2008

Site ID	Project Name	Sampled By
REILLY	REILLY TAR VOC	ANDREW J TARARA

Sample No: 200810151

Receiving Comments: -

Coll Date	Coll Time	Field No	Sampling Point
30-APR-2008	1130	-	SLP4-043008

Trip Blank	Field Blank
200810163	-

********** SAMPLE RESULTS **********

Unit: ORGANIC CHEMISTRY Reviewed By PDS on 19-MAY-08

Note: Positive Organic Results are indicated by BOLD.

	Result Codes		Result	Rept Level	Units	Analysis Date
468 VOCs in Water by GC/MS -EPA 524.2						
Naphthalene		<	1.0	1.0	ug/L	07-MAY-08 07:
n-Propylbenzene		<	0.5	0.5	ug/L	07-MAY-08 07:
Styrene		<	0.5	0.5	ug/L	07-MAY-08 07:47
1,1,1,2-Tetrachloroethane		<	0.2	0.2	ug/L	07-MAY-08 07:
1,1,2,2-Tetrachloroethane		<	0.2	0.2	ug/L	07-MAY-08 07:
Tetrachloroethene		<	0.2	0.2	ug/L	07-MAY-08 07:
Tetrahydrofuran (THF)	QO	<	10	10	ug/L	07-MAY-08 07:
Toluene		<	0.5	0.5	ug/L	07-MAY-08 07:
1,2,3-Trichlorobenzene		<	1.0	1.0	ug/L	07-MAY-08 07:
1,2,4-Trichlorobenzene		<	0.5	0.5	ug/L	07-MAY-08 07:
1,1,1-Trichloroethane		<	0.2	0.2	ug/L	07-MAY-08 07:
1,1,2-Trichloroethane		<	0.2	0.2	ug/L	07-MAY-08 07:
Trichloroethene (TCE)			**3.4**	**0.1**	**ug/L**	**07-MAY-08 07:**
Trichlorofluoromethane		<	0.5	0.5	ug/L	07-MAY-08 07:
1,2,3-Trichloropropane		<	0.5	0.5	ug/L	07-MAY-08 07:
1,1,2-Trichlorotrifluoroethane		<	0.2	0.2	ug/L	07-MAY-08 07:
1,2,4-Trimethylbenzene		<	0.5	0.5	ug/L	07-MAY-08 07:
1,3,5-Trimethylbenzene		<	0.5	0.5	ug/L	07-MAY-08 07:
Vinyl chloride			**1.9**	**0.2**	**ug/L**	**07-MAY-08 07:**
o-Xylene		<	0.2	0.2	ug/L	07-MAY-08 07:
p&m-Xylene		<	0.3	0.3	ug/L	07-MAY-08 07:

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Program: PL
Program Name: MPCA-32 METRO MERLA-SF
Request Number: 325816

Date Received: 02-MAY-2008
Date Generated: 19-MAY-2008
Request Page: 11 of 46

Samples: 200810149 - 200810158

Date Reported: 19-MAY-2008

Site ID	Project Name	Sampled By
REILLY	REILLY TAR VOC	ANDREW J TARARA

Sample No: 200810152

Receiving Comments: -

Coll Date	Coll Time	Field No	Sampling Point
30-APR-2008	1200	-	SLP6-043008

Trip Blank	Field Blank
200810163	-

********** SAMPLE RESULTS **********

Unit: ORGANIC CHEMISTRY Reviewed By PDS on 19-MAY-08

Note: Positive Organic Results are indicated by BOLD.

	Result Codes	Result	Rept Level	Units	Analysis Date
468 VOCs in Water by GC/MS -EPA 524.2					
4-Bromofluorobenzene (surrogate)		101	70-130	% Recovery	07-MAY-08 08:16
Dibromofluoromethane (surrogate)		105	70-130	% Recovery	07-MAY-08 08:16
1,2-Dichlorobenzene-D4 (surrogate)		102	70-130	% Recovery	07-MAY-08 08:16
1,2-Dichloroethane-D4 (surrogate)		103	70-130	% Recovery	07-MAY-08 08:16
Toluene-D8 (surrogate)		103	70-130	% Recovery	07-MAY-08 08:16
Acetone	<	20	20	ug/L	07-MAY-08 08:16
Allyl chloride	<	0.5	0.5	ug/L	07-MAY-08 08:16
Benzene		**1.5**	**0.2**	**ug/L**	**07-MAY-08 08:16**
Bromobenzene	<	0.2	0.2	ug/L	07-MAY-08 08:16
Bromochloromethane	<	0.5	0.5	ug/L	07-MAY-08 08:16
Bromodichloromethane	<	0.2	0.2	ug/L	07-MAY-08 08:16
Bromoform	QR <	0.5	0.5	ug/L	07-MAY-08 08:16
Bromomethane	QR <	1.0	1.0	ug/L	07-MAY-08 08:16
n-Butylbenzene	<	0.5	0.5	ug/L	07-MAY-08 08:16
sec-Butylbenzene	<	0.5	0.5	ug/L	07-MAY-08 08:16
tert-Butylbenzene	<	0.5	0.5	ug/L	07-MAY-08 08:16
Carbon tetrachloride	<	0.2	0.2	ug/L	07-MAY-08 08:16
Chlorobenzene	<	0.2	0.2	ug/L	07-MAY-08 08:16
Chlorodibromomethane	<	0.5	0.5	ug/L	07-MAY-08 08:16
Chloroethane	<	0.5	0.5	ug/L	07-MAY-08 08:16
Chloroform	<	0.1	0.1	ug/L	07-MAY-08 08:16
Chloromethane	<	1.0	1.0	ug/L	07-MAY-08 08:16
2-Chlorotoluene	<	0.5	0.5	ug/L	07-MAY-08 08:16
4-Chlorotoluene	<	0.5	0.5	ug/L	07-MAY-08 08:16
1,2-Dibromo-3-chloropropane (DBCP)	<	2.0	2.0	ug/L	07-MAY-08 08:16
1,2-Dibromoethane (EDB)	<	0.5	0.5	ug/L	07-MAY-08 08:16

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Final Report - Client Copy - Report Of Analytical Results

Program: PL
Program Name: MPCA-32 METRO MERLA-SF
Request Number: 325816

Date Received: 02-MAY-2008
Date Generated: 19-MAY-2008

Samples: 200810149 - 200810158

Date Reported: 19-MAY-2008

Site ID	Project Name	Sampled By
REILLY	REILLY TAR VOC	ANDREW J TARARA

Sample No: 200810152

Receiving Comments: -

Coll Date	Coll Time	Field No	Sampling Point
30-APR-2008	1200	-	SLP6-043008

Trip Blank	Field Blank
200810163	-

********** SAMPLE RESULTS **********

Unit: ORGANIC CHEMISTRY Reviewed By PDS on 19-MAY-08

Note: Positive Organic Results are indicated by BOLD.

	Result Codes	Result	Rept Level	Units	Analysis Date
468 VOCs in Water by GC/MS -EPA 524.2					
Dibromomethane	<	0.5	0.5	ug/L	07-MAY-08 08:
1,2-Dichlorobenzene	<	0.2	0.2	ug/L	07-MAY-08 08:
1,3-Dichlorobenzene	<	0.2	0.2	ug/L	07-MAY-08 08:
1,4-Dichlorobenzene	<	0.2	0.2	ug/L	07-MAY-08 08:
Dichlorodifluoromethane	<	1.0	1.0	ug/L	07-MAY-08 08:
1,1-Dichloroethane		**1.4**	**0.2**	**ug/L**	**07-MAY-08 08:**
1,2-Dichloroethane		**0.4**	**0.2**	**ug/L**	**07-MAY-08 08:**
1,1-Dichloroethene		**0.7**	**0.5**	**ug/L**	**07-MAY-08 08:**
cis-1,2-Dichloroethene		**55**	**0.2**	**ug/L**	**07-MAY-08 08:**
trans-1,2-Dichloroethene		**2.5**	**0.1**	**ug/L**	**07-MAY-08 08:**
Dichlorofluoromethane		**3.8**	**0.5**	**ug/L**	**07-MAY-08 08:**
1,2-Dichloropropane	<	0.2	0.2	ug/L	07-MAY-08 08:
1,3-Dichloropropane	<	0.2	0.2	ug/L	07-MAY-08 08:
2,2-Dichloropropane	QR <	0.5	0.5	ug/L	07-MAY-08 08:
1,1-Dichloropropene	<	0.2	0.2	ug/L	07-MAY-08 08:
cis-1,3-Dichloropropene	<	0.2	0.2	ug/L	07-MAY-08 08:
trans-1,3-Dichloropropene	<	0.2	0.2	ug/L	07-MAY-08 08:
Ethylbenzene	<	0.5	0.5	ug/L	07-MAY-08 08:
Ethyl ether	<	2.0	2.0	ug/L	07-MAY-08 08:
Hexachlorobutadiene	<	1.0	1.0	ug/L	07-MAY-08 08:
Isopropylbenzene	<	0.5	0.5	ug/L	07-MAY-08 08:
p-Isopropyltoluene	<	0.5	0.5	ug/L	07-MAY-08 08:
Methylene chloride	<	0.5	0.5	ug/L	07-MAY-08 08:
Methyl ethyl ketone (MEK)	<	10	10	ug/L	07-MAY-08 08:
Methyl isobutyl ketone (MIBK)	<	5.0	5.0	ug/L	07-MAY-08 08:
Methyl tertiary butyl ether (MTBE)	<	2.0	2.0	ug/L	07-MAY-08 08:

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Program: PL
Program Name: MPCA-32 METRO MERLA-SF
Request Number: 325816

Date Received: 02-MAY-2008
Date Generated: 19-MAY-2008
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Samples: 200810149 - 200810158

Date Reported: 19-MAY-2008

Site ID	Project Name	Sampled By
REILLY	REILLY TAR VOC	ANDREW J TARARA

Sample No: 200810152

Receiving Comments: -

Coll Date	Coll Time	Field No	Sampling Point
30-APR-2008	1200	-	SLP6-043008

Trip Blank	Field Blank
200810163	-

********** SAMPLE RESULTS **********

Unit: ORGANIC CHEMISTRY Reviewed By PDS on 19-MAY-08

Note: Positive Organic Results are indicated by BOLD.

	Result Codes	Result	Rept Level	Units	Analysis Date
468 VOCs in Water by GC/MS -EPA 524.2					
Naphthalene	<	1.0	1.0	ug/L	07-MAY-08 08:16
n-Propylbenzene	<	0.5	0.5	ug/L	07-MAY-08 08:16
Styrene	<	0.5	0.5	ug/L	07-MAY-08 08:16
1,1,1,2-Tetrachloroethane	<	0.2	0.2	ug/L	07-MAY-08 08:16
1,1,2,2-Tetrachloroethane	<	0.2	0.2	ug/L	07-MAY-08 08:16
Tetrachloroethene	<	0.2	0.2	ug/L	07-MAY-08 08:16
Tetrahydrofuran (THF)	QO <	10	10	ug/L	07-MAY-08 08:16
Toluene	<	0.5	0.5	ug/L	07-MAY-08 08:16
1,2,3-Trichlorobenzene	<	1.0	1.0	ug/L	07-MAY-08 08:16
1,2,4-Trichlorobenzene	<	0.5	0.5	ug/L	07-MAY-08 08:16
1,1,1-Trichloroethane	<	0.2	0.2	ug/L	07-MAY-08 08:16
1,1,2-Trichloroethane	<	0.2	0.2	ug/L	07-MAY-08 08:16
Trichloroethene (TCE)		**9.5**	**0.1**	**ug/L**	**07-MAY-08 08:16**
Trichlorofluoromethane	<	0.5	0.5	ug/L	07-MAY-08 08:16
1,2,3-Trichloropropane	<	0.5	0.5	ug/L	07-MAY-08 08:16
1,1,2-Trichlorotrifluoroethane	<	0.2	0.2	ug/L	07-MAY-08 08:16
1,2,4-Trimethylbenzene	<	0.5	0.5	ug/L	07-MAY-08 08:16
1,3,5-Trimethylbenzene	<	0.5	0.5	ug/L	07-MAY-08 08:16
Vinyl chloride		**6.8**	**0.2**	**ug/L**	**07-MAY-08 08:16**
o-Xylene	<	0.2	0.2	ug/L	07-MAY-08 08:16
p&m-Xylene	<	0.3	0.3	ug/L	07-MAY-08 08:16

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Program: PL
Program Name: MPCA-32 METRO MERLA-SF
Request Number: 325816

Date Received: 02-MAY-2008
Date Generated: 19-MAY-2008
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Samples: 200810149 - 200810158

Date Reported: 19-MAY-2008

Site ID	Project Name	Sampled By
REILLY	REILLY TAR VOC	ANDREW J TARARA

Sample No: 200810153

Receiving Comments: -

Coll Date	Coll Time	Field No	Sampling Point
30-APR-2008	1345	-	MTK6-043008

Trip Blank	Field Blank
200810163	-

********** SAMPLE RESULTS **********

Unit: ORGANIC CHEMISTRY Reviewed By PDS on 19-MAY-08

Note: Positive Organic Results are indicated by BOLD.

	Result Codes	Result	Rept Level	Units	Analysis Date
468 VOCs in Water by GC/MS -EPA 524.2					
4-Bromofluorobenzene (surrogate)		94	70-130	% Recovery	07-MAY-08 08: 5
Dibromofluoromethane (surrogate)		102	70-130	% Recovery	07-MAY-08 08 5
1,2-Dichlorobenzene-D4 (surrogate)		101	70-130	% Recovery	07-MAY-08 08:45
1,2-Dichloroethane-D4 (surrogate)		106	70-130	% Recovery	07-MAY-08 08: 5
Toluene-D8 (surrogate)		96	70-130	% Recovery	07-MAY-08 08 5
Acetone	<	20	20	ug/L	07-MAY-08 08. 5
Allyl chloride	<	0.5	0.5	ug/L	07-MAY-08 08: 5
Benzene	<	0.2	0.2	ug/L	07-MAY-08 08 5
Bromobenzene	<	0.2	0.2	ug/L	07-MAY-08 08 5
Bromochloromethane	<	0.5	0.5	ug/L	07-MAY-08 08:45
Bromodichloromethane	<	0.2	0.2	ug/L	07-MAY-08 08: 5
Bromoform	QR <	0.5	0.5	ug/L	07-MAY-08 08 5
Bromomethane	QR <	1.0	1.0	ug/L	07-MAY-08 08:45
n-Butylbenzene	<	0.5	0.5	ug/L	07-MAY-08 08: 5
sec-Butylbenzene	<	0.5	0.5	ug/L	07-MAY-08 08 5
tert-Butylbenzene	<	0.5	0.5	ug/L	07-MAY-08 08. 5
Carbon tetrachloride	<	0.2	0.2	ug/L	07-MAY-08 08: 5
Chlorobenzene	<	0.2	0.2	ug/L	07-MAY-08 08: 5
Chlorodibromomethane	<	0.5	0.5	ug/L	07-MAY-08 08: 5
Chloroethane	<	0.5	0.5	ug/L	07-MAY-08 08:45
Chloroform	<	0.1	0.1	ug/L	07-MAY-08 08: 5
Chloromethane	<	1.0	1.0	ug/L	07-MAY-08 08: 5
2-Chlorotoluene	<	0.5	0.5	ug/L	07-MAY-08 08:45
4-Chlorotoluene	<	0.5	0.5	ug/L	07-MAY-08 08: 5
1,2-Dibromo-3-chloropropane (DBCP)	<	2.0	2.0	ug/L	07-MAY-08 08: 5
1,2-Dibromoethane (EDB)	<	0.5	0.5	ug/L	07-MAY-08 08: 5

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Program: PL
Program Name: MPCA-32 METRO MERLA-SF
Request Number: 325816

Date Received: 02-MAY-2008
Date Generated: 19-MAY-2008
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Samples: 200810149 - 200810158

Date Reported: 19-MAY-2008

Site ID	Project Name	Sampled By
REILLY	REILLY TAR VOC	ANDREW J TARARA

Sample No: 200810153

Receiving Comments: --

Coll Date	Coll Time	Field No	Sampling Point
30-APR-2008	1345	-	MTK6-043008

Trip Blank	Field Blank
200810163	-

********** SAMPLE RESULTS **********

Unit: ORGANIC CHEMISTRY Reviewed By PDS on 19-MAY-08

Note: Positive Organic Results are indicated by BOLD.

	Result Codes	Result	Rept Level	Units	Analysis Date
468 VOCs in Water by GC/MS -EPA 524.2					
Dibromomethane	<	0.5	0.5	ug/L	07-MAY-08 08:45
1,2-Dichlorobenzene	<	0.2	0.2	ug/L	07-MAY-08 08:45
1,3-Dichlorobenzene	<	0.2	0.2	ug/L	07-MAY-08 08:45
1,4-Dichlorobenzene	<	0.2	0.2	ug/L	07-MAY-08 08:45
Dichlorodifluoromethane	QR <	1.0	1.0	ug/L	07-MAY-08 08:45
1,1-Dichloroethane	<	0.2	0.2	ug/L	07-MAY-08 08:45
1,2-Dichloroethane	<	0.2	0.2	ug/L	07-MAY-08 08:45
1,1-Dichloroethene	<	0.5	0.5	ug/L	07-MAY-08 08:45
cis-1,2-Dichloroethene		**0.4**	**0.2**	**ug/L**	**07-MAY-08 08:45**
trans-1,2-Dichloroethene	<	0.1	0.1	ug/L	07-MAY-08 08:45
Dichlorofluoromethane	<	0.5	0.5	ug/L	07-MAY-08 08:45
1,2-Dichloropropane	<	0.2	0.2	ug/L	07-MAY-08 08:45
1,3-Dichloropropane	<	0.2	0.2	ug/L	07-MAY-08 08:45
2,2-Dichloropropane	QR <	0.5	0.5	ug/L	07-MAY-08 08:45
1,1-Dichloropropene	<	0.2	0.2	ug/L	07-MAY-08 08:45
cis-1,3-Dichloropropene	<	0.2	0.2	ug/L	07-MAY-08 08:45
trans-1,3-Dichloropropene	<	0.2	0.2	ug/L	07-MAY-08 08:45
Ethylbenzene	<	0.5	0.5	ug/L	07-MAY-08 08:45
Ethyl ether	<	2.0	2.0	ug/L	07-MAY-08 08:45
Hexachlorobutadiene	<	1.0	1.0	ug/L	07-MAY-08 08:45
Isopropylbenzene	<	0.5	0.5	ug/L	07-MAY-08 08:45
p-Isopropyltoluene	<	0.5	0.5	ug/L	07-MAY-08 08:45
Methylene chloride	<	0.5	0.5	ug/L	07-MAY-08 08:45
Methyl ethyl ketone (MEK)	<	10	10	ug/L	07-MAY-08 08:45
Methyl isobutyl ketone (MIBK)	<	5.0	5.0	ug/L	07-MAY-08 08:45
Methyl tertiary butyl ether (MTBE)	<	2.0	2.0	ug/L	07-MAY-08 08:45

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Program: PL
Program Name: MPCA-32 METRO MERLA-SF
Request Number: 325816

Date Received: 02-MAY-2008
Date Generated: 19-MAY-2008
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Samples: 200810149 - 200810158

Date Reported: 19-MAY-2008

Site ID	Project Name	Sampled By
REILLY	REILLY TAR VOC	ANDREW J TARARA

Sample No: 200810153

Receiving Comments: -

Coll Date	Coll Time	Field No	Sampling Point
30-APR-2008	1345	-	MTK6-043008

Trip Blank	Field Blank
200810163	-

********** SAMPLE RESULTS **********

Unit: ORGANIC CHEMISTRY Reviewed By PDS on 19-MAY-08

Note: Positive Organic Results are indicated by BOLD.

	Result Codes		Result	Rept Level	Units	Analysis Date
468 VOCs in Water by GC/MS -EPA 524.2						
Naphthalene		<	1.0	1.0	ug/L	07-MAY-08 08:
n-Propylbenzene		<	0.5	0.5	ug/L	07-MAY-08 08:
Styrene		<	0.5	0.5	ug/L	07-MAY-08 08:45
1,1,1,2-Tetrachloroethane		<	0.2	0.2	ug/L	07-MAY-08 08:
1,1,2,2-Tetrachloroethane		<	0.2	0.2	ug/L	07-MAY-08 08:
Tetrachloroethene		<	0.2	0.2	ug/L	07-MAY-08 08:
Tetrahydrofuran (THF)	QO	<	10	10	ug/L	07-MAY-08 08:
Toluene		<	0.5	0.5	ug/L	07-MAY-08 08:
1,2,3-Trichlorobenzene		<	1.0	1.0	ug/L	07-MAY-08 08:
1,2,4-Trichlorobenzene		<	0.5	0.5	ug/L	07-MAY-08 08:
1,1,1-Trichloroethane		<	0.2	0.2	ug/L	07-MAY-08 08:
1,1,2-Trichloroethane		<	0.2	0.2	ug/L	07-MAY-08 08:
Trichloroethene (TCE)		<	0.1	0.1	ug/L	07-MAY-08 08:45
Trichlorofluoromethane		<	0.5	0.5	ug/L	07-MAY-08 08:
1,2,3-Trichloropropane		<	0.5	0.5	ug/L	07-MAY-08 08:
1,1,2-Trichlorotrifluoroethane		<	0.2	0.2	ug/L	07-MAY-08 08:
1,2,4-Trimethylbenzene		<	0.5	0.5	ug/L	07-MAY-08 08:
1,3,5-Trimethylbenzene		<	0.5	0.5	ug/L	07-MAY-08 08:
Vinyl chloride		<	0.2	0.2	ug/L	07-MAY-08 08:
o-Xylene		<	0.2	0.2	ug/L	07-MAY-08 08:
p&m-Xylene		<	0.3	0.3	ug/L	07-MAY-08 08:

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Program: PL
Program Name: MPCA-32 METRO MERLA-SF
Request Number: 325816

Date Received: 02-MAY-2008
Date Generated: 19-MAY-2008
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Samples: 200810149 - 200810158

Date Reported: 19-MAY-2008

Site ID	Project Name	Sampled By
REILLY	REILLY TAR VOC	ANDREW J TARARA

Sample No: 200810154

Receiving Comments: -

Coll Date	Coll Time	Field No	Sampling Point
30-APR-2008	1610	-	W402-043008

Trip Blank	Field Blank
200810163	-

********** SAMPLE RESULTS **********

Unit: ORGANIC CHEMISTRY Reviewed By PDS on 19-MAY-08

Note: Positive Organic Results are indicated by BOLD.

	Result Codes	Result	Rept Level	Units	Analysis Date
468 VOCs in Water by GC/MS -EPA 524.2					
4-Bromofluorobenzene (surrogate)		98	70-130	% Recovery	07-MAY-08 09:13
Dibromofluoromethane (surrogate)		105	70-130	% Recovery	07-MAY-08 09:13
1,2-Dichlorobenzene-D4 (surrogate)		102	70-130	% Recovery	07-MAY-08 09:13
1,2-Dichloroethane-D4 (surrogate)		106	70-130	% Recovery	07-MAY-08 09:13
Toluene-D8 (surrogate)		101	70-130	% Recovery	07-MAY-08 09:13
Acetone	<	20	20	ug/L	07-MAY-08 09:13
Allyl chloride	<	0.5	0.5	ug/L	07-MAY-08 09:13
Benzene	J	0.1	0.2	ug/L	07-MAY-08 09:13
Bromobenzene	<	0.2	0.2	ug/L	07-MAY-08 09:13
Bromochloromethane	<	0.5	0.5	ug/L	07-MAY-08 09:13
Bromodichloromethane	<	0.2	0.2	ug/L	07-MAY-08 09:13
Bromoform	QR <	0.5	0.5	ug/L	07-MAY-08 09:13
Bromomethane	QR <	1.0	1.0	ug/L	07-MAY-08 09:13
n-Butylbenzene	<	0.5	0.5	ug/L	07-MAY-08 09:13
sec-Butylbenzene	<	0.5	0.5	ug/L	07-MAY-08 09:13
tert-Butylbenzene	<	0.5	0.5	ug/L	07-MAY-08 09:13
Carbon tetrachloride	<	0.2	0.2	ug/L	07-MAY-08 09:13
Chlorobenzene	<	0.2	0.2	ug/L	07-MAY-08 09:13
Chlorodibromomethane	<	0.5	0.5	ug/L	07-MAY-08 09:13
Chloroethane	<	0.5	0.5	ug/L	07-MAY-08 09:13
Chloroform	<	0.1	0.1	ug/L	07-MAY-08 09:13
Chloromethane	<	1.0	1.0	ug/L	07-MAY-08 09:13
2-Chlorotoluene	<	0.5	0.5	ug/L	07-MAY-08 09:13
4-Chlorotoluene	<	0.5	0.5	ug/L	07-MAY-08 09:13
1,2-Dibromo-3-chloropropane (DBCP)	<	2.0	2.0	ug/L	07-MAY-08 09:13
1,2-Dibromoethane (EDB)	<	0.5	0.5	ug/L	07-MAY-08 09:13

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Program: PL
Program Name: MPCA-32 METRO MERLA-SF
Request Number: 325816

Date Received: 02-MAY-2008
Date Generated: 19-MAY-2008
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Samples: 200810149 - 200810158

Date Reported: 19-MAY-2008

Site ID	Project Name	Sampled By
REILLY	REILLY TAR VOC	ANDREW J TARARA

Sample No: 200810154

Receiving Comments: -

Coll Date	Coll Time	Field No	Sampling Point
30-APR-2008	1610	-	W402-043008

Trip Blank	Field Blank
200810163	-

********** SAMPLE RESULTS **********

Unit: ORGANIC CHEMISTRY Reviewed By PDS on 19-MAY-08

Note: Positive Organic Results are indicated by BOLD.

	Result Codes	Result	Rept Level	Units	Analysis Date
468 VOCs in Water by GC/MS -EPA 524.2					
Dibromomethane	<	0.5	0.5	ug/L	07-MAY-08 09:
1,2-Dichlorobenzene	<	0.2	0.2	ug/L	07-MAY-08 09:
1,3-Dichlorobenzene	<	0.2	0.2	ug/L	07-MAY-08 09:1
1,4-Dichlorobenzene	<	0.2	0.2	ug/L	07-MAY-08 09:
Dichlorodifluoromethane	QR <	1.0	1.0	ug/L	07-MAY-08 09:
1,1-Dichloroethane	<	0.2	0.2	ug/L	07-MAY-08 09:
1,2-Dichloroethane	<	0.2	0.2	ug/L	07-MAY-08 09:
1,1-Dichloroethene	<	0.5	0.5	ug/L	07-MAY-08 09:
cis-1,2-Dichloroethene	<	0.2	0.2	ug/L	07-MAY-08 09:
trans-1,2-Dichloroethene	<	0.1	0.1	ug/L	07-MAY-08 09:
Dichlorofluoromethane	<	0.5	0.5	ug/L	07-MAY-08 09:
1,2-Dichloropropane	<	0.2	0.2	ug/L	07-MAY-08 09:
1,3-Dichloropropane	<	0.2	0.2	ug/L	07-MAY-08 09:1
2,2-Dichloropropane	QR <	0.5	0.5	ug/L	07-MAY-08 09:
1,1-Dichloropropene	<	0.2	0.2	ug/L	07-MAY-08 09:
cis-1,3-Dichloropropene	<	0.2	0.2	ug/L	07-MAY-08 09:
trans-1,3-Dichloropropene	<	0.2	0.2	ug/L	07-MAY-08 09:
Ethylbenzene	<	0.5	0.5	ug/L	07-MAY-08 09:
Ethyl ether	<	2.0	2.0	ug/L	07-MAY-08 09:
Hexachlorobutadiene	<	1.0	1.0	ug/L	07-MAY-08 09:
Isopropylbenzene	<	0.5	0.5	ug/L	07-MAY-08 09:
p-Isopropyltoluene	<	0.5	0.5	ug/L	07-MAY-08 09:
Methylene chloride	<	0.5	0.5	ug/L	07-MAY-08 09:1
Methyl ethyl ketone (MEK)	<	10	10	ug/L	07-MAY-08 09:
Methyl isobutyl ketone (MIBK)	<	5.0	5.0	ug/L	07-MAY-08 09:
Methyl tertiary butyl ether (MTBE)	<	2.0	2.0	ug/L	07-MAY-08 09:

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Program: PL
Program Name: MPCA-32 METRO MERLA-SF
Request Number: 325816

Date Received: 02-MAY-2008
Date Generated: 19-MAY-2008
Request Page: 19 of 46

Samples: 200810149 - 200810158

Date Reported: 19-MAY-2008

Site ID	Project Name	Sampled By
REILLY	REILLY TAR VOC	ANDREW J TARARA

Sample No: 200810154

Receiving Comments: -

Coll Date	Coll Time	Field No	Sampling Point
30-APR-2008	1610	-	W402-043008

Trip Blank	Field Blank
200810163	-

********** SAMPLE RESULTS **********

Unit: ORGANIC CHEMISTRY Reviewed By PDS on 19-MAY-08

Note: Positive Organic Results are indicated by BOLD.

	Result Codes	Result	Rept Level	Units	Analysis Date
468 VOCs in Water by GC/MS -EPA 524.2					
Naphthalene	<	1.0	1.0	ug/L	07-MAY-08 09:13
n-Propylbenzene	<	0.5	0.5	ug/L	07-MAY-08 09:13
Styrene	<	0.5	0.5	ug/L	07-MAY-08 09:13
1,1,1,2-Tetrachloroethane	<	0.2	0.2	ug/L	07-MAY-08 09:13
1,1,2,2-Tetrachloroethane	<	0.2	0.2	ug/L	07-MAY-08 09:13
Tetrachloroethene	<	0.2	0.2	ug/L	07-MAY-08 09:13
Tetrahydrofuran (THF)	QO <	10	10	ug/L	07-MAY-08 09:13
Toluene	<	0.5	0.5	ug/L	07-MAY-08 09:13
1,2,3-Trichlorobenzene	<	1.0	1.0	ug/L	07-MAY-08 09:13
1,2,4-Trichlorobenzene	<	0.5	0.5	ug/L	07-MAY-08 09:13
1,1,1-Trichloroethane	<	0.2	0.2	ug/L	07-MAY-08 09:13
1,1,2-Trichloroethane	<	0.2	0.2	ug/L	07-MAY-08 09:13
Trichloroethene (TCE)	<	0.1	0.1	ug/L	07-MAY-08 09:13
Trichlorofluoromethane	<	0.5	0.5	ug/L	07-MAY-08 09:13
1,2,3-Trichloropropane	<	0.5	0.5	ug/L	07-MAY-08 09:13
1,1,2-Trichlorotrifluoroethane	<	0.2	0.2	ug/L	07-MAY-08 09:13
1,2,4-Trimethylbenzene	<	0.5	0.5	ug/L	07-MAY-08 09:13
1,3,5-Trimethylbenzene	<	0.5	0.5	ug/L	07-MAY-08 09:13
Vinyl chloride	<	0.2	0.2	ug/L	07-MAY-08 09:13
o-Xylene	<	0.2	0.2	ug/L	07-MAY-08 09:13
p&m-Xylene	<	0.3	0.3	ug/L	07-MAY-08 09:13

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Program: PL
Program Name: MPCA-32 METRO MERLA-SF
Request Number: 325816

Date Received: 02-MAY-2008
Date Generated: 19-MAY-2008
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Samples: 200810149 - 200810158

Date Reported: 19-MAY-2008

Site ID	Project Name	Sampled By
REILLY	REILLY TAR VOC	ANDREW J TARARA

Sample No: 200810155

Receiving Comments: -

Coll Date	Coll Time	Field No	Sampling Point
01-MAY-2008	0815	-	E2-050108

Trip Blank	Field Blank
200810163	-

********** SAMPLE RESULTS **********

Unit: ORGANIC CHEMISTRY Reviewed By PDS on 19-MAY-08

Note: Positive Organic Results are indicated by BOLD.

	Result Codes	Result	Rept Level	Units	Analysis Date
468 VOCs in Water by GC/MS -EPA 524.2					
4-Bromofluorobenzene (surrogate)		**94**	**70-130**	**% Recovery**	**07-MAY-08 09:**
Dibromofluoromethane (surrogate)		**102**	**70-130**	**% Recovery**	**07-MAY-08 09:**
1,2-Dichlorobenzene-D4 (surrogate)		**102**	**70-130**	**% Recovery**	**07-MAY-08 09:42**
1,2-Dichloroethane-D4 (surrogate)		**106**	**70-130**	**% Recovery**	**07-MAY-08 09:**
Toluene-D8 (surrogate)		**100**	**70-130**	**% Recovery**	**07-MAY-08 09:**
Acetone	<	20	20	ug/L	07-MAY-08 09:
Allyl chloride	<	0.5	0.5	ug/L	07-MAY-08 09:
Benzene		**0.3**	**0.2**	**ug/L**	**07-MAY-08 09:**
Bromobenzene	<	0.2	0.2	ug/L	07-MAY-08 09:
Bromochloromethane	<	0.5	0.5	ug/L	07-MAY-08 09:4
Bromodichloromethane	<	0.2	0.2	ug/L	07-MAY-08 09:
Bromoform	QR <	0.5	0.5	ug/L	07-MAY-08 09:
Bromomethane	QR <	1.0	1.0	ug/L	07-MAY-08 09:42
n-Butylbenzene	<	0.5	0.5	ug/L	07-MAY-08 09:
sec-Butylbenzene	<	0.5	0.5	ug/L	07-MAY-08 09:
tert-Butylbenzene	<	0.5	0.5	ug/L	07-MAY-08 09:
Carbon tetrachloride	<	0.2	0.2	ug/L	07-MAY-08 09:
Chlorobenzene	<	0.2	0.2	ug/L	07-MAY-08 09:
Chlorodibromomethane	<	0.5	0.5	ug/L	07-MAY-08 09:
Chloroethane	<	0.5	0.5	ug/L	07-MAY-08 09:4
Chloroform	<	0.1	0.1	ug/L	07-MAY-08 09:
Chloromethane	<	1.0	1.0	ug/L	07-MAY-08 09:
2-Chlorotoluene	<	0.5	0.5	ug/L	07-MAY-08 09:42
4-Chlorotoluene	<	0.5	0.5	ug/L	07-MAY-08 09:4
1,2-Dibromo-3-chloropropane (DBCP)	<	2.0	2.0	ug/L	07-MAY-08 09:
1,2-Dibromoethane (EDB)	<	0.5	0.5	ug/L	07-MAY-08 09:4

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Program: PL
Program Name: MPCA-32 METRO MERLA-SF
Request Number: 325816

Date Received: 02-MAY-2008
Date Generated: 19-MAY-2008
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Samples: 200810149 - 200810158

Date Reported: 19-MAY-2008

Site ID	Project Name	Sampled By
REILLY	REILLY TAR VOC	ANDREW J TARARA

Sample No: 200810155

Receiving Comments: -

Coll Date	Coll Time	Field No	Sampling Point
01-MAY-2008	0815	-	E2-050108

Trip Blank	Field Blank
200810163	-

********** SAMPLE RESULTS **********

Unit: ORGANIC CHEMISTRY Reviewed By PDS on 19-MAY-08

Note: Positive Organic Results are indicated by BOLD.

	Result Codes	Result	Rept Level	Units	Analysis Date
468 VOCs in Water by GC/MS -EPA 524.2					
Dibromomethane	<	0.5	0.5	ug/L	07-MAY-08 09:42
1,2-Dichlorobenzene	<	0.2	0.2	ug/L	07-MAY-08 09:42
1,3-Dichlorobenzene	<	0.2	0.2	ug/L	07-MAY-08 09:42
1,4-Dichlorobenzene	<	0.2	0.2	ug/L	07-MAY-08 09:42
Dichlorodifluoromethane	QR <	1.0	1.0	ug/L	07-MAY-08 09:42
1,1-Dichloroethane	J	0.1	0.2	ug/L	07-MAY-08 09:42
1,2-Dichloroethane	<	0.2	0.2	ug/L	07-MAY-08 09:42
1,1-Dichloroethene	<	0.5	0.5	ug/L	07-MAY-08 09:42
cis-1,2-Dichloroethene		9.9	0.2	ug/L	07-MAY-08 09:42
trans-1,2-Dichloroethene		0.5	0.1	ug/L	07-MAY-08 09:42
Dichlorofluoromethane		0.6	0.5	ug/L	07-MAY-08 09:42
1,2-Dichloropropane	<	0.2	0.2	ug/L	07-MAY-08 09:42
1,3-Dichloropropane	<	0.2	0.2	ug/L	07-MAY-08 09:42
2,2-Dichloropropane	QR <	0.5	0.5	ug/L	07-MAY-08 09:42
1,1-Dichloropropene	<	0.2	0.2	ug/L	07-MAY-08 09:42
cis-1,3-Dichloropropene	<	0.2	0.2	ug/L	07-MAY-08 09:42
trans-1,3-Dichloropropene	<	0.2	0.2	ug/L	07-MAY-08 09:42
Ethylbenzene	<	0.5	0.5	ug/L	07-MAY-08 09:42
Ethyl ether	<	2.0	2.0	ug/L	07-MAY-08 09:42
Hexachlorobutadiene	<	1.0	1.0	ug/L	07-MAY-08 09:42
Isopropylbenzene	<	0.5	0.5	ug/L	07-MAY-08 09:42
p-Isopropyltoluene	<	0.5	0.5	ug/L	07-MAY-08 09:42
Methylene chloride	<	0.5	0.5	ug/L	07-MAY-08 09:42
Methyl ethyl ketone (MEK)	<	10	10	ug/L	07-MAY-08 09:42
Methyl isobutyl ketone (MIBK)	<	5.0	5.0	ug/L	07-MAY-08 09:42
Methyl tertiary butyl ether (MTBE)	<	2.0	2.0	ug/L	07-MAY-08 09:42

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Program: PL
Program Name: MPCA-32 METRO MERLA-SF
Request Number: 325816

Date Received: 02-MAY-2008
Date Generated: 19-MAY-2008
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Samples: 200810149 - 200810158

Date Reported: 19-MAY-2008

Site ID	Project Name	Sampled By
REILLY	REILLY TAR VOC	ANDREW J TARARA

Sample No: 200810155

Receiving Comments: -

Coll Date	Coll Time	Field No	Sampling Point
01-MAY-2008	0815	-	E2-050108

Trip Blank	Field Blank
200810163	-

********** SAMPLE RESULTS **********

Unit: ORGANIC CHEMISTRY Reviewed By PDS on 19-MAY-08

Note: Positive Organic Results are indicated by BOLD.

	Result Codes	Result	Rept Level	Units	Analysis Date
468 VOCs in Water by GC/MS -EPA 524.2					
Naphthalene	<	1.0	1.0	ug/L	07-MAY-08 09:
n-Propylbenzene	<	0.5	0.5	ug/L	07-MAY-08 09:
Styrene	<	0.5	0.5	ug/L	07-MAY-08 09:42
1,1,1,2-Tetrachloroethane	<	0.2	0.2	ug/L	07-MAY-08 09:
1,1,2,2-Tetrachloroethane	<	0.2	0.2	ug/L	07-MAY-08 09:
Tetrachloroethene	<	0.2	0.2	ug/L	07-MAY-08 09:
Tetrahydrofuran (THF)	QO <	10	10	ug/L	07-MAY-08 09:
Toluene	<	0.5	0.5	ug/L	07-MAY-08 09:
1,2,3-Trichlorobenzene	<	1.0	1.0	ug/L	07-MAY-08 09:
1,2,4-Trichlorobenzene	<	0.5	0.5	ug/L	07-MAY-08 09:42
1,1,1-Trichloroethane	<	0.2	0.2	ug/L	07-MAY-08 09:
1,1,2-Trichloroethane	<	0.2	0.2	ug/L	07-MAY-08 09:
Trichloroethene (TCE)		**0.5**	**0.1**	**ug/L**	**07-MAY-08 09:42**
Trichlorofluoromethane	<	0.5	0.5	ug/L	07-MAY-08 09:
1,2,3-Trichloropropane	<	0.5	0.5	ug/L	07-MAY-08 09:
1,1,2-Trichlorotrifluoroethane	<	0.2	0.2	ug/L	07-MAY-08 09:
1,2,4-Trimethylbenzene	<	0.5	0.5	ug/L	07-MAY-08 09:
1,3,5-Trimethylbenzene	<	0.5	0.5	ug/L	07-MAY-08 09:
Vinyl chloride		**1.4**	**0.2**	**ug/L**	**07-MAY-08 09:**
o-Xylene	<	0.2	0.2	ug/L	07-MAY-08 09:42
p&m-Xylene	<	0.3	0.3	ug/L	07-MAY-08 09:

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Program: PL
Program Name: MPCA-32 METRO MERLA-SF
Request Number: 325816

Date Received: 02-MAY-2008
Date Generated: 19-MAY-2008
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Samples: 200810149 - 200810158

Date Reported: 19-MAY-2008

Site ID	Project Name	Sampled By
REILLY	REILLY TAR VOC	ANDREW J TARARA

Sample No: 200810156

Receiving Comments: -

Coll Date	Coll Time	Field No	Sampling Point
01-MAY-2008	0915	-	E13-050108

Trip Blank	Field Blank
200810163	-

********** SAMPLE RESULTS **********

Unit: ORGANIC CHEMISTRY Reviewed By PDS on 19-MAY-08

Note: Positive Organic Results are indicated by BOLD.

	Result Codes	Result	Rept Level	Units	Analysis Date
468 VOCs in Water by GC/MS -EPA 524.2					
4-Bromofluorobenzene (surrogate)		101	70-130	% Recovery	07-MAY-08 10:11
Dibromofluoromethane (surrogate)		105	70-130	% Recovery	07-MAY-08 10:11
1,2-Dichlorobenzene-D4 (surrogate)		100	70-130	% Recovery	07-MAY-08 10:11
1,2-Dichloroethane-D4 (surrogate)		104	70-130	% Recovery	07-MAY-08 10:11
Toluene-D8 (surrogate)		102	70-130	% Recovery	07-MAY-08 10:11
Acetone	<	20	20	ug/L	07-MAY-08 10:11
Allyl chloride	<	0.5	0.5	ug/L	07-MAY-08 10:11
Benzene		**0.2**	**0.2**	**ug/L**	**07-MAY-08 10:11**
Bromobenzene	<	0.2	0.2	ug/L	07-MAY-08 10:11
Bromochloromethane	<	0.5	0.5	ug/L	07-MAY-08 10:11
Bromodichloromethane	<	0.2	0.2	ug/L	07-MAY-08 10:11
Bromoform	QR <	0.5	0.5	ug/L	07-MAY-08 10:11
Bromomethane	QR <	1.0	1.0	ug/L	07-MAY-08 10:11
n-Butylbenzene	<	0.5	0.5	ug/L	07-MAY-08 10:11
sec-Butylbenzene	<	0.5	0.5	ug/L	07-MAY-08 10:11
tert-Butylbenzene	<	0.5	0.5	ug/L	07-MAY-08 10:11
Carbon tetrachloride	<	0.2	0.2	ug/L	07-MAY-08 10:11
Chlorobenzene	<	0.2	0.2	ug/L	07-MAY-08 10:11
Chlorodibromomethane	<	0.5	0.5	ug/L	07-MAY-08 10:11
Chloroethane	<	0.5	0.5	ug/L	07-MAY-08 10:11
Chloroform	<	0.1	0.1	ug/L	07-MAY-08 10:11
Chloromethane	<	1.0	1.0	ug/L	07-MAY-08 10:11
2-Chlorotoluene	<	0.5	0.5	ug/L	07-MAY-08 10:11
4-Chlorotoluene	<	0.5	0.5	ug/L	07-MAY-08 10:11
1,2-Dibromo-3-chloropropane (DBCP)	<	2.0	2.0	ug/L	07-MAY-08 10:11
1,2-Dibromoethane (EDB)	<	0.5	0.5	ug/L	07-MAY-08 10:11

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Program: PL
Program Name: MPCA-32 METRO MERLA-SF
Request Number: 325816

Date Received: 02-MAY-2008
Date Generated: 19-MAY-2008
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Samples: 200810149 - 200810158

Date Reported: 19-MAY-2008

Site ID	Project Name	Sampled By
REILLY	REILLY TAR VOC	ANDREW J TARARA

Sample No: 200810156

Receiving Comments: -

Coll Date	Coll Time	Field No	Sampling Point
01-MAY-2008	0915	-	E13-050108

Trip Blank	Field Blank
200810163	-

********** SAMPLE RESULTS **********

Unit: ORGANIC CHEMISTRY Reviewed By PDS on 19-MAY-08

Note: Positive Organic Results are indicated by BOLD.

	Result Codes	Result	Rept Level	Units	Analysis Date
468 VOCs in Water by GC/MS -EPA 524.2					
Dibromomethane	<	0.5	0.5	ug/L	07-MAY-08 10:1
1,2-Dichlorobenzene	<	0.2	0.2	ug/L	07-MAY-08 10:
1,3-Dichlorobenzene	<	0.2	0.2	ug/L	07-MAY-08 10:
1,4-Dichlorobenzene	<	0.2	0.2	ug/L	07-MAY-08 10:1
Dichlorodifluoromethane	QR <	1.0	1.0	ug/L	07-MAY-08 10:
1,1-Dichloroethane		**0.2**	**0.2**	**ug/L**	**07-MAY-08 10:**
1,2-Dichloroethane	<	0.2	0.2	ug/L	07-MAY-08 10:1
1,1-Dichloroethene	<	0.5	0.5	ug/L	07-MAY-08 10:
cis-1,2-Dichloroethene		**5.4**	**0.2**	**ug/L**	**07-MAY-08 10:**
trans-1,2-Dichloroethene		**0.3**	**0.1**	**ug/L**	**07-MAY-08 10:1**
Dichlorofluoromethane	J	**0.3**	**0.5**	**ug/L**	**07-MAY-08 10:1**
1,2-Dichloropropane	<	0.2	0.2	ug/L	07-MAY-08 10:
1,3-Dichloropropane	<	0.2	0.2	ug/L	07-MAY-08 10:
2,2-Dichloropropane	QR <	0.5	0.5	ug/L	07-MAY-08 10:1
1,1-Dichloropropene	<	0.2	0.2	ug/L	07-MAY-08 10:
cis-1,3-Dichloropropene	<	0.2	0.2	ug/L	07-MAY-08 10:
trans-1,3-Dichloropropene	<	0.2	0.2	ug/L	07-MAY-08 10:1
Ethylbenzene	<	0.5	0.5	ug/L	07-MAY-08 10:
Ethyl ether	<	2.0	2.0	ug/L	07-MAY-08 10:
Hexachlorobutadiene	<	1.0	1.0	ug/L	07-MAY-08 10:1
Isopropylbenzene	<	0.5	0.5	ug/L	07-MAY-08 10:1
p-Isopropyltoluene	<	0.5	0.5	ug/L	07-MAY-08 10:
Methylene chloride	<	0.5	0.5	ug/L	07-MAY-08 10:
Methyl ethyl ketone (MEK)	<	10	10	ug/L	07-MAY-08 10:1
Methyl isobutyl ketone (MIBK)	<	5.0	5.0	ug/L	07-MAY-08 10:
Methyl tertiary butyl ether (MTBE)	<	2.0	2.0	ug/L	07-MAY-08 10:

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Program: PL
Program Name: MPCA-32 METRO MERLA-SF
Request Number: 325816

Date Received: 02-MAY-2008
Date Generated: 19-MAY-2008
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Samples: 200810149 - 200810158

Date Reported: 19-MAY-2008

Site ID	Project Name	Sampled By
REILLY	REILLY TAR VOC	ANDREW J TARARA

Sample No: 200810156

Receiving Comments: -

Coll Date	Coll Time	Field No	Sampling Point
01-MAY-2008	0915	-	E13-050108

Trip Blank	Field Blank
200810163	-

********** SAMPLE RESULTS **********

Unit: ORGANIC CHEMISTRY Reviewed By PDS on 19-MAY-08

Note: Positive Organic Results are indicated by BOLD.

	Result Codes	Result	Rept Level	Units	Analysis Date
468 VOCs in Water by GC/MS -EPA 524.2					
Naphthalene	<	1.0	1.0	ug/L	07-MAY-08 10:11
n-Propylbenzene	<	0.5	0.5	ug/L	07-MAY-08 10:11
Styrene	<	0.5	0.5	ug/L	07-MAY-08 10:11
1,1,1,2-Tetrachloroethane	<	0.2	0.2	ug/L	07-MAY-08 10:11
1,1,2,2-Tetrachloroethane	<	0.2	0.2	ug/L	07-MAY-08 10:11
Tetrachloroethene	<	0.2	0.2	ug/L	07-MAY-08 10:11
Tetrahydrofuran (THF)	QO <	10	10	ug/L	07-MAY-08 10:11
Toluene	<	0.5	0.5	ug/L	07-MAY-08 10:11
1,2,3-Trichlorobenzene	<	1.0	1.0	ug/L	07-MAY-08 10:11
1,2,4-Trichlorobenzene	<	0.5	0.5	ug/L	07-MAY-08 10:11
1,1,1-Trichloroethane	<	0.2	0.2	ug/L	07-MAY-08 10:11
1,1,2-Trichloroethane	<	0.2	0.2	ug/L	07-MAY-08 10:11
Trichloroethene (TCE)		**0.4**	**0.1**	**ug/L**	**07-MAY-08 10:11**
Trichlorofluoromethane	<	0.5	0.5	ug/L	07-MAY-08 10:11
1,2,3-Trichloropropane	<	0.5	0.5	ug/L	07-MAY-08 10:11
1,1,2-Trichlorotrifluoroethane	<	0.2	0.2	ug/L	07-MAY-08 10:11
1,2,4-Trimethylbenzene	<	0.5	0.5	ug/L	07-MAY-08 10:11
1,3,5-Trimethylbenzene	<	0.5	0.5	ug/L	07-MAY-08 10:11
Vinyl chloride		**0.6**	**0.2**	**ug/L**	**07-MAY-08 10:11**
o-Xylene	<	0.2	0.2	ug/L	07-MAY-08 10:11
p&m-Xylene	<	0.3	0.3	ug/L	07-MAY-08 10:11

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Program: PL
Program Name: MPCA-32 METRO MERLA-SF
Request Number: 325816

Date Received: 02-MAY-2008
Date Generated: 19-MAY-2008
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Samples: 200810149 - 200810158

Date Reported: 19-MAY-2008

Site ID	Project Name	Sampled By
REILLY	REILLY TAR VOC	ANDREW J TARARA

Sample No: 200810157

Receiving Comments: -

Coll Date	Coll Time	Field No	Sampling Point
01-MAY-2008	0845	-	E15-050108

Trip Blank	Field Blank
200810163	-

********** SAMPLE RESULTS **********

Unit: ORGANIC CHEMISTRY Reviewed By PDS on 19-MAY-08

Note: Positive Organic Results are indicated by BOLD.

	Result Codes	Result	Rept Level	Units	Analysis Date
468 VOCs in Water by GC/MS -EPA 524.2					
4-Bromofluorobenzene (surrogate)		99	70-130	% Recovery	07-MAY-08 10:
Dibromofluoromethane (surrogate)		105	70-130	% Recovery	07-MAY-08 10
1,2-Dichlorobenzene-D4 (surrogate)		100	70-130	% Recovery	07-MAY-08 10
1,2-Dichloroethane-D4 (surrogate)		105	70-130	% Recovery	07-MAY-08 10:
Toluene-D8 (surrogate)		103	70-130	% Recovery	07-MAY-08 10
Acetone	<	20	20	ug/L	07-MAY-08 10
Allyl chloride	<	0.5	0.5	ug/L	07-MAY-08 10:
Benzene	J	**0.1**	**0.2**	**ug/L**	**07-MAY-08 10:**
Bromobenzene	<	0.2	0.2	ug/L	07-MAY-08 10
Bromochloromethane	<	0.5	0.5	ug/L	07-MAY-08 10:
Bromodichloromethane	<	0.2	0.2	ug/L	07-MAY-08 10:
Bromoform	QR <	0.5	0.5	ug/L	07-MAY-08 10
Bromomethane	QR <	1.0	1.0	ug/L	07-MAY-08 10
n-Butylbenzene	<	0.5	0.5	ug/L	07-MAY-08 10:
sec-Butylbenzene	<	0.5	0.5	ug/L	07-MAY-08 10
tert-Butylbenzene	<	0.5	0.5	ug/L	07-MAY-08 10
Carbon tetrachloride	<	0.2	0.2	ug/L	07-MAY-08 10:
Chlorobenzene	<	0.2	0.2	ug/L	07-MAY-08 10:
Chlorodibromomethane	<	0.5	0.5	ug/L	07-MAY-08 10
Chloroethane	<	0.5	0.5	ug/L	07-MAY-08 10:
Chloroform		**0.1**	**0.1**	**ug/L**	**07-MAY-08 10:**
Chloromethane	<	1.0	1.0	ug/L	07-MAY-08 10
2-Chlorotoluene	<	0.5	0.5	ug/L	07-MAY-08 10
4-Chlorotoluene	<	0.5	0.5	ug/L	07-MAY-08 10:
1,2-Dibromo-3-chloropropane (DBCP)	<	2.0	2.0	ug/L	07-MAY-08 10
1,2-Dibromoethane (EDB)	<	0.5	0.5	ug/L	07-MAY-08 10

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Program: PL
Program Name: MPCA-32 METRO MERLA-SF
Request Number: 325816

Date Received: 02-MAY-2008
Date Generated: 19-MAY-2008
Request Page: 27 of 46

Samples: 200810149 - 200810158

Date Reported: 19-MAY-2008

Site ID	Project Name	Sampled By
REILLY	REILLY TAR VOC	ANDREW J TARARA

Sample No: 200810157

Receiving Comments: -

Coll Date	Coll Time	Field No	Sampling Point
01-MAY-2008	0845	-	E15-050108

Trip Blank	Field Blank
200810163	-

********** SAMPLE RESULTS **********

Unit: ORGANIC CHEMISTRY Reviewed By PDS on 19-MAY-08

Note: Positive Organic Results are indicated by BOLD.

	Result Codes	Result	Rept Level	Units	Analysis Date
468 VOCs in Water by GC/MS -EPA 524.2					
Dibromomethane	<	0.5	0.5	ug/L	07-MAY-08 10:40
1,2-Dichlorobenzene	<	0.2	0.2	ug/L	07-MAY-08 10:40
1,3-Dichlorobenzene	<	0.2	0.2	ug/L	07-MAY-08 10:40
1,4-Dichlorobenzene	<	0.2	0.2	ug/L	07-MAY-08 10:40
Dichlorodifluoromethane	QR <	1.0	1.0	ug/L	07-MAY-08 10:40
1,1-Dichloroethane		**1.9**	**0.2**	**ug/L**	**07-MAY-08 10:40**
1,2-Dichloroethane	<	0.2	0.2	ug/L	07-MAY-08 10:40
1,1-Dichloroethene		**0.9**	**0.5**	**ug/L**	**07-MAY-08 10:40**
cis-1,2-Dichloroethene		**8.3**	**0.2**	**ug/L**	**07-MAY-08 10:40**
trans-1,2-Dichloroethene		**0.4**	**0.1**	**ug/L**	**07-MAY-08 10:40**
Dichlorofluoromethane	J	**0.3**	**0.5**	**ug/L**	**07-MAY-08 10:40**
1,2-Dichloropropane	<	0.2	0.2	ug/L	07-MAY-08 10:40
1,3-Dichloropropane	<	0.2	0.2	ug/L	07-MAY-08 10:40
2,2-Dichloropropane	QR <	0.5	0.5	ug/L	07-MAY-08 10:40
1,1-Dichloropropene	<	0.2	0.2	ug/L	07-MAY-08 10:40
cis-1,3-Dichloropropene	<	0.2	0.2	ug/L	07-MAY-08 10:40
trans-1,3-Dichloropropene	<	0.2	0.2	ug/L	07-MAY-08 10:40
Ethylbenzene	<	0.5	0.5	ug/L	07-MAY-08 10:40
Ethyl ether	<	2.0	2.0	ug/L	07-MAY-08 10:40
Hexachlorobutadiene	<	1.0	1.0	ug/L	07-MAY-08 10:40
Isopropylbenzene	<	0.5	0.5	ug/L	07-MAY-08 10:40
p-Isopropyltoluene	<	0.5	0.5	ug/L	07-MAY-08 10:40
Methylene chloride	<	0.5	0.5	ug/L	07-MAY-08 10:40
Methyl ethyl ketone (MEK)	<	10	10	ug/L	07-MAY-08 10:40
Methyl isobutyl ketone (MIBK)	<	5.0	5.0	ug/L	07-MAY-08 10:40
Methyl tertiary butyl ether (MTBE)	<	2.0	2.0	ug/L	07-MAY-08 10:40

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Program: PL
Program Name: MPCA-32 METRO MERLA-SF
Request Number: 325816

Date Received: 02-MAY-2008
Date Generated: 19-MAY-2008

Samples: 200810149 - 200810158

Date Reported: 19-MAY-2008

Site ID	Project Name	Sampled By
REILLY	REILLY TAR VOC	ANDREW J TARARA

Sample No: 200810157

Receiving Comments: -

Coll Date	Coll Time	Field No	Sampling Point
01-MAY-2008	0845	-	E15-050108

Trip Blank	Field Blank
200810163	-

********** SAMPLE RESULTS **********

Unit: ORGANIC CHEMISTRY Reviewed By PDS on 19-MAY-08

Note: Positive Organic Results are indicated by BOLD.

	Result Codes		Result	Rept Level	Units	Analysis Date
468 VOCs in Water by GC/MS -EPA 524.2						
Naphthalene		<	1.0	1.0	ug/L	07-MAY-08 10:
n-Propylbenzene		<	0.5	0.5	ug/L	07-MAY-08 10:
Styrene		<	0.5	0.5	ug/L	07-MAY-08 10:
1,1,1,2-Tetrachloroethane		<	0.2	0.2	ug/L	07-MAY-08 10:
1,1,2,2-Tetrachloroethane		<	0.2	0.2	ug/L	07-MAY-08 10:
Tetrachloroethene		<	0.2	0.2	ug/L	07-MAY-08 10:
Tetrahydrofuran (THF)	QO	<	10	10	ug/L	07-MAY-08 10:
Toluene		<	0.5	0.5	ug/L	07-MAY-08 10:
1,2,3-Trichlorobenzene		<	1.0	1.0	ug/L	07-MAY-08 10:
1,2,4-Trichlorobenzene		<	0.5	0.5	ug/L	07-MAY-08 10:
1,1,1-Trichloroethane			**0.6**	**0.2**	**ug/L**	**07-MAY-08 10:**
1,1,2-Trichloroethane		<	0.2	0.2	ug/L	07-MAY-08 10:
Trichloroethene (TCE)			**2.1**	**0.1**	**ug/L**	**07-MAY-08 10:**
Trichlorofluoromethane		<	0.5	0.5	ug/L	07-MAY-08 10:
1,2,3-Trichloropropane		<	0.5	0.5	ug/L	07-MAY-08 10:
1,1,2-Trichlorotrifluoroethane		<	0.2	0.2	ug/L	07-MAY-08 10:
1,2,4-Trimethylbenzene		<	0.5	0.5	ug/L	07-MAY-08 10:
1,3,5-Trimethylbenzene		<	0.5	0.5	ug/L	07-MAY-08 10:
Vinyl chloride			**0.8**	**0.2**	**ug/L**	**07-MAY-08 10:**
o-Xylene		<	0.2	0.2	ug/L	07-MAY-08 10:
p&m-Xylene		<	0.3	0.3	ug/L	07-MAY-08 10:

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Program: PL
Program Name: MPCA-32 METRO MERLA-SF
Request Number: 325816

Date Received: 02-MAY-2008
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Samples: 200810149 - 200810158

Date Reported: 19-MAY-2008

Site ID	Project Name	Sampled By
REILLY	REILLY TAR VOC	ANDREW J TARARA

Sample No: 200810158

Receiving Comments: -

Coll Date	Coll Time	Field No	Sampling Point
01-MAY-2008	1030	-	SLP4T-050108

Trip Blank	Field Blank
200810163	-

********** SAMPLE RESULTS **********

Unit: ORGANIC CHEMISTRY Reviewed By PDS on 19-MAY-08

Note: Positive Organic Results are indicated by BOLD.

	Result Codes	Result	Rept Level	Units	Analysis Date
468 VOCs in Water by GC/MS -EPA 524.2					
4-Bromofluorobenzene (surrogate)		104	70-130	% Recovery	13-MAY-08 17:21
Dibromofluoromethane (surrogate)		100	70-130	% Recovery	13-MAY-08 17:21
1,2-Dichlorobenzene-D4 (surrogate)		104	70-130	% Recovery	13-MAY-08 17:21
1,2-Dichloroethane-D4 (surrogate)		102	70-130	% Recovery	13-MAY-08 17:21
Toluene-D8 (surrogate)		110	70-130	% Recovery	13-MAY-08 17:21
Acetone	QR <	20	20	ug/L	13-MAY-08 17:21
Allyl chloride	<	0.5	0.5	ug/L	13-MAY-08 17:21
Benzene	<	0.2	0.2	ug/L	13-MAY-08 17:21
Bromobenzene	<	0.2	0.2	ug/L	13-MAY-08 17:21
Bromochloromethane	<	0.5	0.5	ug/L	13-MAY-08 17:21
Bromodichloromethane	<	0.2	0.2	ug/L	13-MAY-08 17:21
Bromoform	<	0.5	0.5	ug/L	13-MAY-08 17:21
Bromomethane	<	1.0	1.0	ug/L	13-MAY-08 17:21
n-Butylbenzene	<	0.5	0.5	ug/L	13-MAY-08 17:21
sec-Butylbenzene	<	0.5	0.5	ug/L	13-MAY-08 17:21
tert-Butylbenzene	<	0.5	0.5	ug/L	13-MAY-08 17:21
Carbon tetrachloride	<	0.2	0.2	ug/L	13-MAY-08 17:21
Chlorobenzene	<	0.2	0.2	ug/L	13-MAY-08 17:21
Chlorodibromomethane	<	0.5	0.5	ug/L	13-MAY-08 17:21
Chloroethane	<	0.5	0.5	ug/L	13-MAY-08 17:21
Chloroform		**0.6**	**0.1**	**ug/L**	**13-MAY-08 17:21**
Chloromethane	<	1.0	1.0	ug/L	13-MAY-08 17:21
2-Chlorotoluene	<	0.5	0.5	ug/L	13-MAY-08 17:21
4-Chlorotoluene	<	0.5	0.5	ug/L	13-MAY-08 17:21
1,2-Dibromo-3-chloropropane (DBCP)	<	2.0	2.0	ug/L	13-MAY-08 17:21
1,2-Dibromoethane (EDB)	<	0.5	0.5	ug/L	13-MAY-08 17:21

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Program: PL
Program Name: MPCA-32 METRO MERLA-SF
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Date Received: 02-MAY-2008
Date Generated: 19-MAY-2008
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Samples: 200810149 - 200810158

Date Reported: 19-MAY-2008

Site ID	Project Name	Sampled By
REILLY	REILLY TAR VOC	ANDREW J TARARA

Sample No: 200810158

Receiving Comments: -

Coll Date	Coll Time	Field No	Sampling Point
01-MAY-2008	1030	-	SLP4T-050108

Trip Blank	Field Blank
200810163	-

********** SAMPLE RESULTS **********

Unit: ORGANIC CHEMISTRY Reviewed By PDS on 19-MAY-08

Note: Positive Organic Results are indicated by BOLD.

	Result Codes	Result	Rept Level	Units	Analysis Date
468 VOCs in Water by GC/MS -EPA 524.2					
Dibromomethane	<	0.5	0.5	ug/L	13-MAY-08 17:
1,2-Dichlorobenzene	<	0.2	0.2	ug/L	13 MAY-08 17:
1,3-Dichlorobenzene	<	0.2	0.2	ug/L	13-MAY-08 17:
1,4-Dichlorobenzene	<	0.2	0.2	ug/L	13-MAY-08 17:
Dichlorodifluoromethane	J	**0.5**	**1.0**	**ug/L**	**13-MAY-08 17:**
1,1-Dichloroethane	<	0.2	0.2	ug/L	13-MAY-08 17:
1,2-Dichloroethane	<	0.2	0.2	ug/L	13-MAY-08 17:
1,1-Dichloroethene	<	0.5	0.5	ug/L	13-MAY-08 17:
cis-1,2-Dichloroethene		**0.7**	**0.2**	**ug/L**	**13-MAY-08 17:**
trans-1,2-Dichloroethene	<	0.1	0.1	ug/L	13-MAY-08 17:
Dichlorofluoromethane		**1.2**	**0.5**	**ug/L**	**13-MAY-08 17:**
1,2-Dichloropropane	<	0.2	0.2	ug/L	13-MAY-08 17:
1,3-Dichloropropane	<	0.2	0.2	ug/L	13-MAY-08 17:
2,2-Dichloropropane	<	0.5	0.5	ug/L	13-MAY-08 17:
1,1-Dichloropropene	<	0.2	0.2	ug/L	13-MAY-08 17:
cis-1,3-Dichloropropene	<	0.2	0.2	ug/L	13-MAY-08 17:
trans-1,3-Dichloropropene	QR <	0.2	0.2	ug/L	13-MAY-08 17:
Ethylbenzene	<	0.5	0.5	ug/L	13-MAY-08 17:
Ethyl ether	<	2.0	2.0	ug/L	13-MAY-08 17:
Hexachlorobutadiene	<	1.0	1.0	ug/L	13-MAY-08 17:
Isopropylbenzene	<	0.5	0.5	ug/L	13-MAY-08 17:
p-Isopropyltoluene	<	0.5	0.5	ug/L	13-MAY-08 17:
Methylene chloride	<	0.5	0.5	ug/L	13-MAY-08 17:
Methyl ethyl ketone (MEK)	<	10	10	ug/L	13-MAY-08 17:
Methyl isobutyl ketone (MIBK)	<	5.0	5.0	ug/L	13-MAY-08 17:
Methyl tertiary butyl ether (MTBE)	<	2.0	2.0	ug/L	13-MAY-08 17:

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Program: PL
Program Name: MPCA-32 METRO MERLA-SF
Request Number: 325816

Date Received: 02-MAY-2008
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Samples: 200810149 - 200810158

Date Reported: 19-MAY-2008

Site ID	Project Name	Sampled By
REILLY	REILLY TAR VOC	ANDREW J TARARA

Sample No: 200810158

Receiving Comments: -

Coll Date	Coll Time	Field No	Sampling Point
01-MAY-2008	1030	-	SLP4T-050108

Trip Blank	Field Blank
200810163	-

********** SAMPLE RESULTS **********

Unit: ORGANIC CHEMISTRY Reviewed By PDS on 19-MAY-08

Note: Positive Organic Results are indicated by BOLD.

	Result Codes	Result	Rept Level	Units	Analysis Date
468 VOCs in Water by GC/MS -EPA 524.2					
Naphthalene	QR <	1.0	1.0	ug/L	13-MAY-08 17:21
n-Propylbenzene	<	0.5	0.5	ug/L	13-MAY-08 17:21
Styrene	<	0.5	0.5	ug/L	13-MAY-08 17:21
1,1,1,2-Tetrachloroethane	<	0.2	0.2	ug/L	13-MAY-08 17:21
1,1,2,2-Tetrachloroethane	<	0.2	0.2	ug/L	13-MAY-08 17:21
Tetrachloroethene	<	0.2	0.2	ug/L	13-MAY-08 17:21
Tetrahydrofuran (THF)	QR <	10	10	ug/L	13-MAY-08 17:21
Toluene	<	0.5	0.5	ug/L	13-MAY-08 17:21
1,2,3-Trichlorobenzene	<	1.0	1.0	ug/L	13-MAY-08 17:21
1,2,4-Trichlorobenzene	<	0.5	0.5	ug/L	13-MAY-08 17:21
1,1,1-Trichloroethane	<	0.2	0.2	ug/L	13-MAY-08 17:21
1,1,2-Trichloroethane	<	0.2	0.2	ug/L	13-MAY-08 17:21
Trichloroethene (TCE)	<	0.1	0.1	ug/L	13-MAY-08 17:21
Trichlorofluoromethane	<	0.5	0.5	ug/L	13-MAY-08 17:21
1,2,3-Trichloropropane	<	0.5	0.5	ug/L	13-MAY-08 17:21
1,1,2-Trichlorotrifluoroethane	<	0.2	0.2	ug/L	13-MAY-08 17:21
1,2,4-Trimethylbenzene	<	0.5	0.5	ug/L	13-MAY-08 17:21
1,3,5-Trimethylbenzene	<	0.5	0.5	ug/L	13-MAY-08 17:21
Vinyl chloride		**1.5**	**0.2**	**ug/L**	**13-MAY-08 17:21**
o-Xylene	<	0.2	0.2	ug/L	13-MAY-08 17:21
p&m-Xylene	<	0.3	0.3	ug/L	13-MAY-08 17:21

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Program: PL
Program Name: MPCA-32 METRO MERLA-SF
Request Number: 325816

Date Received: 02-MAY-2008
Date Generated: 19-MAY-2008

Samples: 200810149 - 200810158

Date Reported: 19-MAY-2008

Site ID	Project Name	Sampled By
REILLY	REILLY TAR VOC	ANDREW J TARARA

Result Code Description

J The analyte was positively identified. The result is below the report level and is estimated.

QO Response for this analyte in a continuing calibration verification standard did not meet the QC acceptance criteria. Since the recovery showed a positive bias and the analyte was not detected in the sample, the sample result for this analyte was accepted without qualification.

QR Response for this analyte in a continuing calibration verification standard did not meet the QC acceptance criteria. The sample result for this analyte should be considered as estimated.

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Program: PL
Program Name: MPCA-32 METRO MERLA-SF
Request Number: 325816

Date Received: 02-MAY-2008
Date Generated: 19-MAY-2008
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Samples: 200810149 - 200810158

Date Reported: 19-MAY-2008

Site ID	Project Name	Sampled By
REILLY	REILLY TAR VOC	ANDREW J TARARA

Quality Control Batch ID: 20080505.16 AN: 468

All samples analyzed in the batch

200810149, 200810150, 200810151, 200810152, 200810153, 200810154, 200810155, 200810156, 200810157, 200810159, 200810160

VOCs in Water by GC/MS
EPA 524.2

Sample	Collection Date	Analysis Date	Analysis Time	Holding Time		Acceptable
200810149	30-APR-08	07-MAY-08	7	14	DAYS	Y
200810150	30-APR-08	07-MAY-08	7	14	DAYS	Y
200810151	30-APR-08	07-MAY-08	7	14	DAYS	Y
200810152	30-APR-08	07-MAY-08	7	14	DAYS	Y
200810153	30-APR-08	07-MAY-08	7	14	DAYS	Y
200810154	30-APR-08	07-MAY-08	7	14	DAYS	Y
200810155	01-MAY-08	07-MAY-08	6	14	DAYS	Y
200810156	01-MAY-08	07-MAY-08	6	14	DAYS	Y
200810157	01-MAY-08	07-MAY-08	6	14	DAYS	Y

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Program: PL
Program Name: MPCA-32 METRO MERLA-SF
Request Number: 325816

Date Received: 02-MAY-2008
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Samples: 200810149 - 200810158

Date Reported: 19-MAY-2008

Site ID	Project Name	Sampled By
REILLY	REILLY TAR VOC	ANDREW J TARARA

Quality Control Batch ID: 20080505.16 AN: 468

Method Blank

	Result Code	Surrogate % Recovery	Accept Limits
4-Bromofluorobenzene (surrogate)		100	70-130
Dibromofluoromethane (surrogate)		103	70-130
1,2-Dichlorobenzene-D4 (surrogate)		101	70-130
1,2-Dichloroethane-D4 (surrogate)		107	70-130
Toluene-D8 (surrogate)		103	70-130

	Result	Report Level	Units	Control Limit
Acetone	<	20	ug/L	20
Allyl chloride	<	0.5	ug/L	0.5
Benzene	<	0.2	ug/L	0.2
Bromobenzene	<	0.2	ug/L	0.2
Bromochloromethane	<	0.5	ug/L	0.5
Bromodichloromethane	<	0.2	ug/L	0.2
Bromoform	<	0.5	ug/L	0.5
Bromomethane	<	1.0	ug/L	1.0
n-Butylbenzene	<	0.5	ug/L	0.5
sec-Butylbenzene	<	0.5	ug/L	0.5
tert-Butylbenzene	<	0.5	ug/L	0.5
Carbon tetrachloride	<	0.2	ug/L	0.2
Chlorobenzene	<	0.2	ug/L	0.2
Chlorodibromomethane	<	0.5	ug/L	0.5
Chloroethane	<	0.5	ug/L	0.5
Chloroform	<	0.1	ug/L	0.1
Chloromethane	<	1.0	ug/L	1.0
2-Chlorotoluene	<	0.5	ug/L	0.5
4-Chlorotoluene	<	0.5	ug/L	0.5
1,2-Dibromo-3-chloropropane (DBCP)	<	2.0	ug/L	2.0
1,2-Dibromoethane (EDB)	<	0.5	ug/L	0.5
Dibromomethane	<	0.5	ug/L	0.5
1,2-Dichlorobenzene	<	0.2	ug/L	0.2
1,3-Dichlorobenzene	<	0.2	ug/L	0.2
1,4-Dichlorobenzene	<	0.2	ug/L	0.2
Dichlorodifluoromethane	<	1.0	ug/L	1.0

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Program: PL
Program Name: MPCA-32 METRO MERLA-SF
Request Number: 325816

Date Received: 02-MAY-2008
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Samples: 200810149 - 200810158

Date Reported: 19-MAY-2008

Site ID	Project Name	Sampled By
REILLY	REILLY TAR VOC	ANDREW J TARARA

Quality Control Batch ID: 20080505.16 AN: 468

Method Blank

	Result	Report Level	Units	Control Limit
1,1-Dichloroethane	<	0.2	ug/L	0.2
1,2-Dichloroethane	<	0.2	ug/L	0.2
1,1-Dichloroethene	<	0.5	ug/L	0.5
cis-1,2-Dichloroethene	<	0.2	ug/L	0.2
trans-1,2-Dichloroethene	<	0.1	ug/L	0.1
Dichlorofluoromethane	<	0.5	ug/L	0.5
1,2-Dichloropropane	<	0.2	ug/L	0.2
1,3-Dichloropropane	<	0.2	ug/L	0.2
2,2-Dichloropropane	<	0.5	ug/L	0.5
1,1-Dichloropropene	<	0.2	ug/L	0.2
cis-1,3-Dichloropropene	<	0.2	ug/L	0.2
trans-1,3-Dichloropropene	<	0.2	ug/L	0.2
Ethylbenzene	<	0.5	ug/L	0.5
Ethyl ether	<	2.0	ug/L	2.0
Hexachlorobutadiene	<	1.0	ug/L	1.0
Isopropylbenzene	<	0.5	ug/L	0.5
p-Isopropyltoluene	<	0.5	ug/L	0.5
Methylene chloride	<	0.5	ug/L	0.5
Methyl ethyl ketone (MEK)	<	10	ug/L	10
Methyl isobutyl ketone (MIBK)	<	5.0	ug/L	5.0
Methyl tertiary butyl ether (MTBE)	<	2.0	ug/L	2.0
Naphthalene	<	1.0	ug/L	1.0
n-Propylbenzene	<	0.5	ug/L	0.5
Styrene	<	0.5	ug/L	0.5
1,1,1,2-Tetrachloroethane	<	0.2	ug/L	0.2
1,1,2,2-Tetrachloroethane	<	0.2	ug/L	0.2
Tetrachloroethene	<	0.2	ug/L	0.2
Tetrahydrofuran (THF)	<	10	ug/L	10
Toluene	<	0.5	ug/L	0.5
1,2,3-Trichlorobenzene	<	1.0	ug/L	1.0
1,2,4-Trichlorobenzene	<	0.5	ug/L	0.5
1,1,1-Trichloroethane	<	0.2	ug/L	0.2
1,1,2-Trichloroethane	<	0.2	ug/L	0.2
Trichloroethene (TCE)	<	0.1	ug/L	0.1

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Program: PL
Program Name: MPCA-32 METRO MERLA-SF
Request Number: 325816

Date Received: 02-MAY-2008
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Samples: 200810149 - 200810158

Date Reported: 19-MAY-2008

Site ID	Project Name	Sampled By
REILLY	REILLY TAR VOC	ANDREW J TARARA

Quality Control Batch ID: 20080505.16 AN: 468

Method Blank

	Result	Report Level	Units	Control Limit
Trichlorofluoromethane	<	0.5	ug/L	0.5
1,2,3-Trichloropropane	<	0.5	ug/L	0.5
1,1,2-Trichlorotrifluoroethane	<	0.2	ug/L	0.2
1,2,4-Trimethylbenzene	<	0.5	ug/L	0.5
1,3,5-Trimethylbenzene	<	0.5	ug/L	0.5
Vinyl chloride	<	0.2	ug/L	0.2
o-Xylene	<	0.2	ug/L	0.2
p&m-Xylene	<	0.3	ug/L	0.3

Laboratory Control Samples

	Result Code	LCS %Recovery	LCSD %Recovery	Accept. Limits
4-Bromofluorobenzene (surrogate)		96	93	70-130
Dibromofluoromethane (surrogate)		103	104	70-130
1,2-Dichlorobenzene-D4 (surrogat		87	88	70-130
1,2-Dichloroethane-D4 (surrogate		101	102	70-130
Toluene-D8 (surrogate)		106	112	70-130

	Spike Level	Units	Spike %Rec	Dup %Rec	RPD	%Rec Req	RPD Req
Acetone	5	ug/L	97	129	29	70-130	30
Allyl chloride	5	ug/L	98	97	1	70-130	30
Benzene	5	ug/L	120	115	4	70-130	30
Bromobenzene	5	ug/L	100	97	3	70-130	30
Bromochloromethane	5	ug/L	119	119	0	70-130	30
Bromodichloromethane	5	ug/L	117	110	6	70-130	30
Bromoform	5	ug/L	77	64*	18	70-130	30
Bromomethane	5	ug/L	61*	61*	1	70-130	30
n-Butylbenzene	5	ug/L	82	73	11	70-130	30
sec-Butylbenzene	5	ug/L	90	83	9	70-130	30

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Date Generated: 19-MAY-2008
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Samples: 200810149 - 200810158

Date Reported: 19-MAY-2008

Site ID	Project Name	Sampled By
REILLY	REILLY TAR VOC	ANDREW J TARARA

Quality Control Batch ID: 20080505.16 AN:468

Laboratory Control Samples

	Spike Level	Units	Spike %Rec	Dup %Rec	RPD	%Rec Req	RPD Req
tert-Butylbenzene	5	ug/L	86	81	6	70-130	30
Carbon tetrachloride	5	ug/L	119	115	3	70-130	30
Chlorobenzene	5	ug/L	103	91	12	70-130	30
Chlorodibromomethane	5	ug/L	94	87	9	70-130	30
Chloroethane	5	ug/L	99	105	6	70-130	30
Chloroform	5	ug/L	125	121	3	70-130	30
Chloromethane	5	ug/L	70	74	5	70-130	30
2-Chlorotoluene	5	ug/L	105	97	9	70-130	30
4-Chlorotoluene	5	ug/L	111	99	11	70-130	30
1,2-Dibromo-3-chloropropane (D	5	ug/L	86	84	3	70-130	30
1,2-Dibromoethane (EDB)	5	ug/L	106	108	2	70-130	30
Dibromomethane	5	ug/L	125	129	3	70-130	30
1,2-Dichlorobenzene	5	ug/L	99	95	5	70-130	30
1,3-Dichlorobenzene	5	ug/L	101	97	5	70-130	30
1,4-Dichlorobenzene	5	ug/L	99	94	5	70-130	30
Dichlorodifluoromethane	5	ug/L	56*	43*	26	70-130	30
1,1-Dichloroethane	5	ug/L	112	117	4	70-130	30
1,2-Dichloroethane	5	ug/L	126	123	2	70-130	30
1,1-Dichloroethene	5	ug/L	98	103	5	70-130	30
cis-1,2-Dichloroethene	5	ug/L	115	121	5	70-130	30
trans-1,2-Dichloroethene	5	ug/L	107	110	3	70-130	30
Dichlorofluoromethane	5	ug/L	105	119	13	70-130	30
1,2-Dichloropropane	5	ug/L	120	116	3	70-130	30
1,3-Dichloropropane	5	ug/L	107	109	2	70-130	30
2,2-Dichloropropane	5	ug/L	88	68*	25	70-130	30
1,1-Dichloropropene	5	ug/L	119	114	4	70-130	30
cis-1,3-Dichloropropene	5	ug/L	82	80	2	70-130	30
trans-1,3-Dichloropropene	5	ug/L	85	84	2	70-130	30

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Final Report - Client Copy - Report Of Analytical Results

Program: PL
Program Name: MPCA-32 METRO MERLA-SF
Request Number: 325816

Date Received: 02-MAY-2008
Date Generated: 19-MAY-2008
Request Page: 38 of 46

Samples: 200810149 - 200810158

Date Reported: 19-MAY-2008

Site ID	Project Name	Sampled By
REILLY	REILLY TAR VOC	ANDREW J TARARA

Quality Control Batch ID: 20080505.16 AN: 468

Laboratory Control Samples

	Spike Level	Units	Spike %Rec	Dup %Rec	RPD	%Rec Req	RPD Req
Ethylbenzene	5	ug/L	110	84	26	70-130	30
Ethyl ether	5	ug/L	103	111	7	70-130	30
Hexachlorobutadiene	5	ug/L	90	93	3	70-130	30
Isopropylbenzene	5	ug/L	90	84	8	70-130	30
p-Isopropyltoluene	5	ug/L	84	77	8	70-130	30
Methylene chloride	5	ug/L	101	106	5	70-130	30
Methyl ethyl ketone (MEK)	5	ug/L	118	113	4	70-130	30
Methyl isobutyl ketone (MIBK)	5	ug/L	95	95	1	70-130	30
Methyl tertiary butyl ether (M	5	ug/L	105	112	6	70-130	30
Naphthalene	5	ug/L	71	77	8	70-130	30
n-Propylbenzene	5	ug/L	91	82	10	70-130	30
Styrene	5	ug/L	93	71	28	70-130	30
1,1,1,2-Tetrachloroethane	5	ug/L	104	83	23	70-130	30
1,1,2,2-Tetrachloroethane	5	ug/L	101	95	6	70-130	30
Tetrachloroethene	5	ug/L	104	102	2	70-130	30
Tetrahydrofuran (THF)	5	ug/L	**249***	**277***	11	70-130	30
Toluene	5	ug/L	104	104	0	70-130	30
1,2,3-Trichlorobenzene	5	ug/L	86	93	8	70-130	30
1,2,4-Trichlorobenzene	5	ug/L	85	92	7	70-130	30
1,1,1-Trichloroethane	5	ug/L	123	118	4	70-130	30
1,1,2-Trichloroethane	5	ug/L	107	111	4	70-130	30
Trichloroethene (TCE)	5	ug/L	119	114	4	70-130	30
Trichlorofluoromethane	5	ug/L	92	106	14	70-130	30
1,2,3-Trichloropropane	5	ug/L	100	93	7	70-130	30
1,1,2-Trichlorotrifluoroethane	5	ug/L	98	103	4	70-130	30
1,2,4-Trimethylbenzene	5	ug/L	91	83	9	70-130	30
1,3,5-Trimethylbenzene	5	ug/L	88	81	9	70-130	30
Vinyl chloride	5	ug/L	81	83	3	70-130	30

Minnesota Department Of Health - Environmental Laboratory

Final Report - Client Copy - Report Of Analytical Results

Program: PL
Program Name: MPCA-32 METRO MERLA-SF
Request Number: 325816

Date Received: 02-MAY-2008
Date Generated: 19-MAY-2008
Request Page: 39 of 46

Samples: 200810149 - 200810158

Date Reported: 19-MAY-2008

Site ID	Project Name	Sampled By
REILLY	REILLY TAR VOC	ANDREW J TARARA

Quality Control Batch ID: 20080505.16 AN: 468

Laboratory Control Samples

	Spike Level	Units	Spike %Rec	Dup %Rec	RPD	%Rec Req	RPD Req
o-Xylene	5	ug/L	103	76	29	70-130	30
p&m-Xylene	5	ug/L	96	73	27	70-130	30

Minnesota Department Of Health - Environmental Laboratory

Final Report - Client Copy - Report Of Analytical Results

Program: PL
Program Name: MPCA-32 METRO MERLA-SF
Request Number: 325816

Date Received: 02-MAY-2008
Date Generated: 19-MAY-2008
Request Page: 40 of 46

Samples: 200810149 - 200810158

Date Reported: 19-MAY-2008

Site ID	Project Name	Sampled By
REILLY	REILLY TAR VOC	ANDREW J TARARA

Quality Control Batch ID: 20080513.11 AN: 468

All samples analyzed in the batch

200810158, 200810161, 200810162, 200810163, 200810187, 200810236, 200810241, 200810355, 200810625, 200810626, 200810627, 200810934, 200811238

VOCs in Water by GC/MS
EPA 524.2

Sample	Collection Date	Analysis Date	Analysis Time	Holding Time		Acceptable
200810158	01-MAY-08	13-MAY-08	12	14	DAYS	Y

Minnesota Department Of Health - Environmental Laboratory

Final Report - Client Copy - Report Of Analytical Results

Program: PL
Program Name: MPCA-32 METRO MERLA-SF
Request Number: 325816

Date Received: 02-MAY-2008
Date Generated: 19-MAY-2008

Samples: 200810149 - 200810158

Date Reported: 19-MAY-2008

Site ID	Project Name	Sampled By
REILLY	REILLY TAR VOC	ANDREW J TARARA

Quality Control Batch ID: 20080513.11 AN:468

Method Blank

	Result Code	Surrogate % Recovery	Accept Limits
4-Bromofluorobenzene (surrogate)		104	70-130
Dibromofluoromethane (surrogate)		101	70-130
1,2-Dichlorobenzene-D4 (surrogate)		103	70-130
1,2-Dichloroethane-D4 (surrogate)		103	70-130
Toluene-D8 (surrogate)		109	70-130

	Result	Report Level	Units	Control Limit
Acetone	<	20	ug/L	20
Allyl chloride	<	0.5	ug/L	0.5
Benzene	<	0.2	ug/L	0.2
Bromobenzene	<	0.2	ug/L	0.2
Bromochloromethane	<	0.5	ug/L	0.5
Bromodichloromethane	<	0.2	ug/L	0.2
Bromoform	<	0.5	ug/L	0.5
Bromomethane	<	1.0	ug/L	1.0
n-Butylbenzene	<	0.5	ug/L	0.5
sec-Butylbenzene	<	0.5	ug/L	0.5
tert-Butylbenzene	<	0.5	ug/L	0.5
Carbon tetrachloride	<	0.2	ug/L	0.2
Chlorobenzene	<	0.2	ug/L	0.2
Chlorodibromomethane	<	0.5	ug/L	0.5
Chloroethane	<	0.5	ug/L	0.5
Chloroform	<	0.1	ug/L	0.1
Chloromethane	<	1.0	ug/L	1.0
2-Chlorotoluene	<	0.5	ug/L	0.5
4-Chlorotoluene	<	0.5	ug/L	0.5
1,2-Dibromo-3-chloropropane (DBCP)	<	2.0	ug/L	2.0
1,2-Dibromoethane (EDB)	<	0.5	ug/L	0.5
Dibromomethane	<	0.5	ug/L	0.5
1,2-Dichlorobenzene	<	0.2	ug/L	0.2
1,3-Dichlorobenzene	<	0.2	ug/L	0.2
1,4-Dichlorobenzene	<	0.2	ug/L	0.2
Dichlorodifluoromethane	<	1.0	ug/L	1.0

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Final Report - Client Copy - Report Of Analytical Results

Program: PL
Program Name: MPCA-32 METRO MERLA-SF
Request Number: 325816

Date Received: 02-MAY-2008
Date Generated: 19-MAY-2008
Request Page: 42 of 46

Samples: 200810149 - 200810158

Date Reported: 19-MAY-2008

Site ID	Project Name	Sampled By
REILLY	REILLY TAR VOC	ANDREW J TARARA

Quality Control Batch ID: 20080513.11 AN: 468

Method Blank

	Result	Report Level	Units	Control Limit
1,1-Dichloroethane	<	0.2	ug/L	0.2
1,2-Dichloroethane	<	0.2	ug/L	0.2
1,1-Dichloroethene	<	0.5	ug/L	0.5
cis-1,2-Dichloroethene	<	0.2	ug/L	0.2
trans-1,2-Dichloroethene	<	0.1	ug/L	0.1
Dichlorofluoromethane	<	0.5	ug/L	0.5
1,2-Dichloropropane	<	0.2	ug/L	0.2
1,3-Dichloropropane	<	0.2	ug/L	0.2
2,2-Dichloropropane	<	0.5	ug/L	0.5
1,1-Dichloropropene	<	0.2	ug/L	0.2
cis-1,3-Dichloropropene	<	0.2	ug/L	0.2
trans-1,3-Dichloropropene	<	0.2	ug/L	0.2
Ethylbenzene	<	0.5	ug/L	0.5
Ethyl ether	<	2.0	ug/L	2.0
Hexachlorobutadiene	<	1.0	ug/L	1.0
Isopropylbenzene	<	0.5	ug/L	0.5
p-Isopropyltoluene	<	0.5	ug/L	0.5
Methylene chloride	<	0.5	ug/L	0.5
Methyl ethyl ketone (MEK)	<	10	ug/L	10
Methyl isobutyl ketone (MIBK)	<	5.0	ug/L	5.0
Methyl tertiary butyl ether (MTBE)	<	2.0	ug/L	2.0
Naphthalene	<	1.0	ug/L	1.0
n-Propylbenzene	<	0.5	ug/L	0.5
Styrene	<	0.5	ug/L	0.5
1,1,1,2-Tetrachloroethane	<	0.2	ug/L	0.2
1,1,2,2-Tetrachloroethane	<	0.2	ug/L	0.2
Tetrachloroethene	<	0.2	ug/L	0.2
Tetrahydrofuran (THF)	<	10	ug/L	10
Toluene	<	0.5	ug/L	0.5
1,2,3-Trichlorobenzene	<	1.0	ug/L	1.0
1,2,4-Trichlorobenzene	<	0.5	ug/L	0.5
1,1,1-Trichloroethane	<	0.2	ug/L	0.2
1,1,2-Trichloroethane	<	0.2	ug/L	0.2
Trichloroethene (TCE)	<	0.1	ug/L	0.1

Minnesota Department Of Health - Environmental Laboratory

Final Report - Client Copy - Report Of Analytical Results

Program: PL
Program Name: MPCA-32 METRO MERLA-SF
Request Number: 325816

Date Received: 02-MAY-2008
Date Generated: 19-MAY-2008

Samples: 200810149 - 200810158

Date Reported: 19-MAY-2008

Site ID	Project Name	Sampled By
REILLY	REILLY TAR VOC	ANDREW J TARARA

Quality Control Batch ID: 20080513.11 AN: 468

Method Blank

	Result	Report Level	Units	Control Limit
Trichlorofluoromethane	<	0.5	ug/L	0.5
1,2,3-Trichloropropane	<	0.5	ug/L	0.5
1,1,2-Trichlorotrifluoroethane	<	0.2	ug/L	0.2
1,2,4-Trimethylbenzene	<	0.5	ug/L	0.5
1,3,5-Trimethylbenzene	<	0.5	ug/L	0.5
Vinyl chloride	<	0.2	ug/L	0.2
o-Xylene	<	0.2	ug/L	0.2
p&m-Xylene	<	0.3	ug/L	0.3

Laboratory Control Samples

	Result Code	LCS %Recovery	LCSD %Recovery	Accept. Limits
4-Bromofluorobenzene (surrogate)		97	95	70-130
Dibromofluoromethane (surrogate)		100	101	70-130
1,2-Dichlorobenzene-D4 (surrogat		89	89	70-130
1,2-Dichloroethane-D4 (surrogate		101	101	70-130
Toluene-D8 (surrogate)		114	102	70-130

	Spike Level	Units	Spike %Rec	Dup %Rec	RPD	%Rec Req	RPD Req
Acetone	5	ug/L	0*	19*	200*	70-130	30
Allyl chloride	5	ug/L	96	95	0	70-130	30
Benzene	5	ug/L	100	102	2	70-130	30
Bromobenzene	5	ug/L	99	97	2	70-130	30
Bromochloromethane	5	ug/L	105	104	1	70-130	30
Bromodichloromethane	5	ug/L	103	94	9	70-130	30
Bromoform	5	ug/L	96	90	7	70-130	30
Bromomethane	5	ug/L	103	94	10	70-130	30
n-Butylbenzene	5	ug/L	75	75	1	70-130	30
sec-Butylbenzene	5	ug/L	83	84	1	70-130	30

Minnesota Department Of Health - Environmental Laboratory

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Program: PL
Program Name: MPCA-32 METRO MERLA-SF
Request Number: 325816

Date Received: 02-MAY-2008
Date Generated: 19-MAY-2008
Request Page: 44 of 46

Samples: 200810149 - 200810158

Date Reported: 19-MAY-2008

Site ID	Project Name	Sampled By
REILLY	REILLY TAR VOC	ANDREW J TARARA

Quality Control Batch ID: 20080513.11 AN: 468

Laboratory Control Samples

	Spike Level	Units	Spike %Rec	Dup %Rec	RPD	%Rec Req	RPD Req
tert-Butylbenzene	5	ug/L	79	80	0	70-130	30
Carbon tetrachloride	5	ug/L	99	98	1	70-130	30
Chlorobenzene	5	ug/L	99	98	1	70-130	30
Chlorodibromomethane	5	ug/L	102	97	5	70-130	30
Chloroethane	5	ug/L	121	117	4	70-130	30
Chloroform	5	ug/L	101	106	4	70-130	30
Chloromethane	5	ug/L	117	105	11	70-130	30
2-Chlorotoluene	5	ug/L	103	102	1	70-130	30
4-Chlorotoluene	5	ug/L	106	105	1	70-130	30
1,2-Dibromo-3-chloropropane (D	5	ug/L	84	83	1	70-130	30
1,2-Dibromoethane (EDB)	5	ug/L	100	103	2	70-130	30
Dibromomethane	5	ug/L	103	103	1	70-130	30
1,2-Dichlorobenzene	5	ug/L	96	96	0	70-130	30
1,3-Dichlorobenzene	5	ug/L	99	97	2	70-130	30
1,4-Dichlorobenzene	5	ug/L	96	94	2	70-130	30
Dichlorodifluoromethane	5	ug/L	127	117	9	70-130	30
1,1-Dichloroethane	5	ug/L	100	105	5	70-130	30
1,2-Dichloroethane	5	ug/L	98	106	8	70-130	30
1,1-Dichloroethene	5	ug/L	99	98	1	70-130	30
cis-1,2-Dichloroethene	5	ug/L	99	98	1	70-130	30
trans-1,2-Dichloroethene	5	ug/L	100	101	1	70-130	30
Dichlorofluoromethane	5	ug/L	109	113	4	70-130	30
1,2-Dichloropropane	5	ug/L	103	99	4	70-130	30
1,3-Dichloropropane	5	ug/L	102	103	0	70-130	30
2,2-Dichloropropane	5	ug/L	99	87	12	70-130	30
1,1-Dichloropropene	5	ug/L	98	99	1	70-130	30
cis-1,3-Dichloropropene	5	ug/L	71	77	8	70-130	30
trans-1,3-Dichloropropene	5	ug/L	86	68*	24	70-130	30

Minnesota Department Of Health - Environmental Laboratory

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Program: PL
Program Name: MPCA-32 METRO MERLA-SF
Request Number: 325816

Date Received: 02-MAY-2008
Date Generated: 19-MAY-2008
Request Page: 45 of 46

Samples: 200810149 - 200810158

Date Reported: 19-MAY-2008

Site ID	Project Name	Sampled By
REILLY	REILLY TAR VOC	ANDREW J TARARA

Quality Control Batch ID: 20080513.11 AN: 468

Laboratory Control Samples

	Spike Level	Units	Spike %Rec	Dup %Rec	RPD	%Rec Req	RPD Req
Ethylbenzene	5	ug/L	101	103	2	70-130	30
Ethyl ether	5	ug/L	100	102	2	70-130	30
Hexachlorobutadiene	5	ug/L	89	87	3	70-130	30
Isopropylbenzene	5	ug/L	87	86	1	70-130	30
p-Isopropyltoluene	5	ug/L	79	79	0	70-130	30
Methylene chloride	5	ug/L	96	97	1	70-130	30
Methyl ethyl ketone (MEK)	5	ug/L	73	83	13	70-130	30
Methyl isobutyl ketone (MIBK)	5	ug/L	82	88	7	70-130	30
Methyl tertiary butyl ether (M	5	ug/L	94	97	3	70-130	30
Naphthalene	5	ug/L	65*	68*	5	70-130	30
n-Propylbenzene	5	ug/L	86	85	1	70-130	30
Styrene	5	ug/L	87	87	0	70-130	30
1,1,1,2-Tetrachloroethane	5	ug/L	104	102	1	70-130	30
1,1,2,2-Tetrachloroethane	5	ug/L	100	101	1	70-130	30
Tetrachloroethene	5	ug/L	99	98	2	70-130	30
Tetrahydrofuran (THF)	5	ug/L	70	80	14	70-130	30
Toluene	5	ug/L	100	97	4	70-130	30
1,2,3-Trichlorobenzene	5	ug/L	80	82	2	70-130	30
1,2,4-Trichlorobenzene	5	ug/L	80	81	1	70-130	30
1,1,1-Trichloroethane	5	ug/L	98	102	4	70-130	30
1,1,2-Trichloroethane	5	ug/L	103	94	9	70-130	30
Trichloroethene (TCE)	5	ug/L	102	101	2	70-130	30
Trichlorofluoromethane	5	ug/L	101	104	3	70-130	30
1,2,3-Trichloropropane	5	ug/L	99	101	2	70-130	30
1,1,2-Trichlorotrifluoroethane	5	ug/L	102	97	5	70-130	30
1,2,4-Trimethylbenzene	5	ug/L	86	86	1	70-130	30
1,3,5-Trimethylbenzene	5	ug/L	85	84	1	70-130	30
Vinyl chloride	5	ug/L	119	105	12	70-130	30

Minnesota Department Of Health - Environmental Laboratory

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Program: PL
Program Name: MPCA-32 METRO MERLA-SF
Request Number: 325816

Date Received: 02-MAY-2008
Date Generated: 19-MAY-2008
Request Page: 46 of 46

Samples: 200810149 - 200810158

Date Reported: 19-MAY-2008

Site ID	Project Name	Sampled By
REILLY	REILLY TAR VOC	ANDREW J TARARA

Quality Control Batch ID: 20080513.11 AN: 468

Laboratory Control Samples

	Spike Level	Units	Spike %Rec	Dup %Rec	RPD	%Rec Req	RPD Req
o-Xylene	5	ug/L	94	94	0	70-130	30
p&m-Xylene	5	ug/L	89	89	1	70-130	30

MINNESOTA MDH DEPARTMENT OF HEALTH

Protecting, maintaining and improving the health of all Minnesotans

Report Date: 19-DEC-2008

Client Name: MPCA-GW & SW
Project Code: PL
Project Name: MPCA-32 METRO MERLA-SF

Samples: 200836025 — 200836028

Report To: Bill Scruton
MPCA-GW & SW
520 Lafayette Rd.
St. Paul, MN 55155

The MDH Public Health Laboratory performs chemical, bacteriological and radiological analyses of environmental samples including water, waste water, sediment, air, soil and hazardous material. The laboratory provides testing services in accordance with standard operating procedures referencing approved methodology and defined in Standard Methods for the Examination of Water and Wastewater, Test Methods for Evaluating Solid Waster, Physical/Chemical Methods:EPA SW-846, and 40 Code of Federal Regulation (CFR) parts 136, 141, and 261. In cases where analytes of interest do not have corresponding EPA approved methodology, the MDH Public Health Laboratory uses in-house methods that have undergone rigorous validation and documentation.

The results within this report are in compliance with the terms and conditions stated in the standard operation procedures, reference methodologies, and quality assurance project plan; unless otherwise narrated in the attached report.

Release of the data contained in this report has been authorized by laboratory management and is verified with the following signature affirmation. Thank you for using the MDH Public Health Laboratory. If you have any questions regarding this report, please call us at 651.201.5300.

Sincerely,

Suzanne Skorich
Environmental Laboratory, Quality Assurance Officer

Minnesota Department Of Health - Environmental Laboratory

Final Report - Client Copy - Report Of Analytical Results

Program: **PL**
Program Name: **MPCA-32 METRO MERLA-SF**
Request Number: **340627**

Date Received: **15-DEC-2008**
Date Generated: **19-DEC-2008**
Request Page: **1 of 19**

Samples: 200836025 - 200836028

Date Reported: **19-DEC-2008**

Site ID	Project Name	Sampled By
-	**EDINA GW SITE**	**DAVID ANDERSON**

Sample No: 200836025(Field Blank)

Receiving Comments: -

Coll Date	Coll Time	Field No	Sampling Point
15-DEC-2008	**0935**	-	**FIELD BLANK**

Trip Blank	Field Blank
-	**200836025**

********** SAMPLE RESULTS **********

Unit: ORGANIC CHEMISTRY Reviewed By PDS on 19-DEC-08

Note: Positive Organic Results are indicated by BOLD.

	Result Codes	Result	Rept Level	Units	Analysis Date
468 VOCs in Water by GC/MS -EPA 524.2					
4-Bromofluorobenzene (surrogate)		**97**	**70-130**	**% Recovery**	**17-DEC-08 16:28**
Dibromofluoromethane (surrogate)		**109**	**70-130**	**% Recovery**	**17-DEC-08 16:28**
1,2-Dichlorobenzene-D4 (surrogate)		**102**	**70-130**	**% Recovery**	**17-DEC-08 16:28**
1,2-Dichloroethane-D4 (surrogate)		**105**	**70-130**	**% Recovery**	**17-DEC-08 16:28**
Toluene-D8 (surrogate)		**103**	**70-130**	**% Recovery**	**17-DEC-08 16:28**
Acetone	<	20	20	ug/L	17-DEC-08 16:28
Allyl chloride	<	0.5	0.5	ug/L	17-DEC-08 16:28
Benzene	<	0.2	0.2	ug/L	17-DEC-08 16:28
Bromobenzene	<	0.2	0.2	ug/L	17-DEC-08 16:28
Bromochloromethane	<	0.5	0.5	ug/L	17-DEC-08 16:28
Bromodichloromethane	<	0.2	0.2	ug/L	17-DEC-08 16:28
Bromoform	<	0.5	0.5	ug/L	17-DEC-08 16:28
Bromomethane	<	1.0	1.0	ug/L	17-DEC-08 16:28
n-Butylbenzene	<	0.5	0.5	ug/L	17-DEC-08 16:28
sec-Butylbenzene	<	0.5	0.5	ug/L	17-DEC-08 16:28
tert-Butylbenzene	<	0.5	0.5	ug/L	17-DEC-08 16:28
Carbon tetrachloride	<	0.2	0.2	ug/L	17-DEC-08 16:28
Chlorobenzene	<	0.2	0.2	ug/L	17-DEC-08 16:28
Chlorodibromomethane	<	0.5	0.5	ug/L	17-DEC-08 16:28
Chloroethane	<	0.5	0.5	ug/L	17-DEC-08 16:28
Chloroform		**0.8**	**0.1**	**ug/L**	**17-DEC-08 16:28**
Chloromethane	<	1.0	1.0	ug/L	17-DEC-08 16:28
2-Chlorotoluene	<	0.5	0.5	ug/L	17-DEC-08 16:28
4-Chlorotoluene	<	0.5	0.5	ug/L	17-DEC-08 16:28
1,2-Dibromo-3-chloropropane (DBCP)	<	2.0	2.0	ug/L	17-DEC-08 16:28
1,2-Dibromoethane (EDB)	<	0.5	0.5	ug/L	17-DEC-08 16:28

Minnesota Department Of Health - Environmental Laboratory

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Program: PL
Program Name: MPCA-32 METRO MERLA-SF
Request Number: 340627

Date Received: 15-DEC-2008
Date Generated: 19-DEC-2008
Request Page: 2 of 19

Samples: 200836025 - 200836028

Date Reported: 19-DEC-2008

Site ID	Project Name	Sampled By
-	EDINA GW SITE	DAVID ANDERSON

Sample No: 200836025 (Field Blank)

Receiving Comments: -

Coll Date	Coll Time	Field No	Sampling Point
15-DEC-2008	0935	-	FIELD BLANK

Trip Blank	Field Blank
-	200836025

********** SAMPLE RESULTS **********

Unit: ORGANIC CHEMISTRY Reviewed By PDS on 19-DEC-08

Note: Positive Organic Results are indicated by BOLD.

	Result Codes	Result	Rept Level	Units	Analysis Date
68 VOCs in Water by GC/MS -EPA 524.2					
Dibromomethane	<	0.5	0.5	ug/L	17-DEC-08 16:28
1,2-Dichlorobenzene	<	0.2	0.2	ug/L	17-DEC-08 16:28
1,3-Dichlorobenzene	<	0.2	0.2	ug/L	17-DEC-08 16:28
1,4-Dichlorobenzene	<	0.2	0.2	ug/L	17-DEC-08 16:28
Dichlorodifluoromethane	<	1.0	1.0	ug/L	17-DEC-08 16:28
1,1-Dichloroethane	<	0.2	0.2	ug/L	17-DEC-08 16:28
1,2-Dichloroethane	<	0.2	0.2	ug/L	17-DEC-08 16:28
1,1-Dichloroethene	<	0.5	0.5	ug/L	17-DEC-08 16:28
cis-1,2-Dichloroethene	<	0.2	0.2	ug/L	17-DEC-08 16:28
trans-1,2-Dichloroethene	<	0.1	0.1	ug/L	17-DEC-08 16:28
Dichlorofluoromethane	<	0.5	0.5	ug/L	17-DEC-08 16:28
1,2-Dichloropropane	<	0.2	0.2	ug/L	17-DEC-08 16:28
1,3-Dichloropropane	<	0.2	0.2	ug/L	17-DEC-08 16:28
2,2-Dichloropropane	<	0.5	0.5	ug/L	17-DEC-08 16:28
1,1-Dichloropropene	<	0.2	0.2	ug/L	17-DEC-08 16:28
cis-1,3-Dichloropropene	<	0.2	0.2	ug/L	17-DEC-08 16:28
trans-1,3-Dichloropropene	<	0.2	0.2	ug/L	17-DEC-08 16:28
Ethylbenzene	<	0.5	0.5	ug/L	17-DEC-08 16:28
Ethyl ether	<	2.0	2.0	ug/L	17-DEC-08 16:28
Hexachlorobutadiene	<	1.0	1.0	ug/L	17-DEC-08 16:28
Isopropylbenzene	<	0.5	0.5	ug/L	17-DEC-08 16:28
p-Isopropyltoluene	<	0.5	0.5	ug/L	17-DEC-08 16:28
Methylene chloride		**12**	**0.5**	**ug/L**	**17-DEC-08 16:28**
Methyl ethyl ketone (MEK)	<	10	10	ug/L	17-DEC-08 16:28
Methyl isobutyl ketone (MIBK)	<	5.0	5.0	ug/L	17-DEC-08 16:28
Methyl tertiary butyl ether (MTBE)	<	2.0	2.0	ug/L	17-DEC-08 16:28

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Program: **PL**
Program Name: **MPCA-32 METRO MERLA-SF**
Request Number: **340627**

Date Received: **15-DEC-2008**
Date Generated: **19-DEC-2008**
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Samples: 200836025 - 200836028

Date Reported: **19-DEC-2008**

Site ID	Project Name	Sampled By
-	**EDINA GW SITE**	**DAVID ANDERSON**

Sample No: 200836025 (Field Blank)

Receiving Comments: -

Coll Date	Coll Time	Field No	Sampling Point
15-DEC-2008	**0935**	-	**FIELD BLANK**

Trip Blank	Field Blank
-	**200836025**

********** SAMPLE RESULTS **********

Unit: ORGANIC CHEMISTRY Reviewed By PDS on **19-DEC-08**

Note: Positive Organic Results are indicated by BOLD.

	Result Codes		Result	Rept Level	Units	Analysis Date
468 VOCs in Water by GC/MS -EPA 524.2						
Naphthalene		<	1.0	1.0	ug/L	17-DEC-08 16:28
n-Propylbenzene		<	0.5	0.5	ug/L	17-DEC-08 16:28
Styrene		<	0.5	0.5	ug/L	17-DEC-08 16:28
1,1,1,2-Tetrachloroethane		<	0.2	0.2	ug/L	17-DEC-08 16:28
1,1,2,2-Tetrachloroethane		<	0.2	0.2	ug/L	17-DEC-08 16:28
Tetrachloroethene		<	0.2	0.2	ug/L	17-DEC-08 16:28
Tetrahydrofuran (THF)		<	10	10	ug/L	17-DEC-08 16:28
Toluene		<	0.5	0.5	ug/L	17-DEC-08 16:28
1,2,3-Trichlorobenzene		<	1.0	1.0	ug/L	17-DEC-08 16:28
1,2,4-Trichlorobenzene		<	0.5	0.5	ug/L	17-DEC-08 16:28
1,1,1-Trichloroethane		<	0.2	0.2	ug/L	17-DEC-08 16:28
1,1,2-Trichloroethane		<	0.2	0.2	ug/L	17-DEC-08 16:28
Trichloroethene (TCE)		<	0.1	0.1	ug/L	17-DEC-08 16:28
Trichlorofluoromethane		<	0.5	0.5	ug/L	17-DEC-08 16:28
1,2,3-Trichloropropane		<	0.5	0.5	ug/L	17-DEC-08 16:28
1,1,2-Trichlorotrifluoroethane		<	0.2	0.2	ug/L	17-DEC-08 16:28
1,2,4-Trimethylbenzene		<	0.5	0.5	ug/L	17-DEC-08 16:28
1,3,5-Trimethylbenzene		<	0.5	0.5	ug/L	17-DEC-08 16:28
Vinyl chloride		<	0.2	0.2	ug/L	17-DEC-08 16:28
o-Xylene		<	0.2	0.2	ug/L	17-DEC-08 16:28
p&m-Xylene		<	0.3	0.3	ug/L	17-DEC-08 16:28

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Program: **PL**
Program Name: **MPCA-32 METRO MERLA-SF**
Request Number: **340627**

Date Received: **15-DEC-2008**
Date Generated: **19-DEC-2008**
Request Page: **4 of 19**

Samples: 200836025 - 200836028

Date Reported: **19-DEC-2008**

Site ID	Project Name	Sampled By
-	**EDINA GW SITE**	**DAVID ANDERSON**

Sample No: **200836026**

Receiving Comments: -

Coll Date	Coll Time	Field No	Sampling Point
15-DEC-2008	**0945**	-	**EDINA OPCJ WELL**

Trip Blank	Field Blank
-	**200836025**

********** SAMPLE RESULTS **********

Unit: ORGANIC CHEMISTRY Reviewed By **PDS** on **19-DEC-08**

Note: Positive Organic Results are indicated by BOLD.

	Result Codes	Result	Rept Level	Units	Analysis Date
68 VOCs in Water by GC/MS -EPA 524.2					
4-Bromofluorobenzene (surrogate)		**97**	**70-130**	**% Recovery**	**17-DEC-08 16:56**
Dibromofluoromethane (surrogate)		**109**	**70-130**	**% Recovery**	**17-DEC-08 16:56**
1,2-Dichlorobenzene-D4 (surrogate)		**100**	**70-130**	**% Recovery**	**17-DEC-08 16:56**
1,2-Dichloroethane-D4 (surrogate)		**102**	**70-130**	**% Recovery**	**17-DEC-08 16:56**
Toluene-D8 (surrogate)		**103**	**70-130**	**% Recovery**	**17-DEC-08 16:56**
Acetone	<	20	20	ug/L	17-DEC-08 16:56
Allyl chloride	<	0.5	0.5	ug/L	17-DEC-08 16:56
Benzene	<	0.2	0.2	ug/L	17-DEC-08 16:56
Bromobenzene	<	0.2	0.2	ug/L	17-DEC-08 16:56
Bromochloromethane	<	0.5	0.5	ug/L	17-DEC-08 16:56
Bromodichloromethane	<	0.2	0.2	ug/L	17-DEC-08 16:56
Bromoform	<	0.5	0.5	ug/L	17-DEC-08 16:56
Bromomethane	<	1.0	1.0	ug/L	17-DEC-08 16:56
n-Butylbenzene	<	0.5	0.5	ug/L	17-DEC-08 16:56
sec-Butylbenzene	<	0.5	0.5	ug/L	17-DEC-08 16:56
tert-Butylbenzene	<	0.5	0.5	ug/L	17-DEC-08 16:56
Carbon tetrachloride	<	0.2	0.2	ug/L	17-DEC-08 16:56
Chlorobenzene	<	0.2	0.2	ug/L	17-DEC-08 16:56
Chlorodibromomethane	<	0.5	0.5	ug/L	17-DEC-08 16:56
Chloroethane	<	0.5	0.5	ug/L	17-DEC-08 16:56
Chloroform	<	0.1	0.1	ug/L	17-DEC-08 16:56
Chloromethane	<	1.0	1.0	ug/L	17-DEC-08 16:56
2-Chlorotoluene	<	0.5	0.5	ug/L	17-DEC-08 16:56
4-Chlorotoluene	<	0.5	0.5	ug/L	17-DEC-08 16:56
1,2-Dibromo-3-chloropropane (DBCP)	<	2.0	2.0	ug/L	17-DEC-08 16:56
1,2-Dibromoethane (EDB)	<	0.5	0.5	ug/L	17-DEC-08 16:56

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Program: **PL**
Program Name: **MPCA-32 METRO MERLA-SF**
Request Number: **340627**

Date Received: **15-DEC-2008**
Date Generated: **19-DEC-2008**
Request Page: **5 of 19**

Samples: 200836025 - 200836028

Date Reported: **19-DEC-2008**

Site ID	Project Name	Sampled By
-	**EDINA GW SITE**	**DAVID ANDERSON**

Sample No: **200836026**

Receiving Comments: -

Coll Date	Coll Time	Field No	Sampling Point
15-DEC-2008	0945	-	**EDINA OPCJ WELL**

Trip Blank	Field Blank
-	200836025

********** SAMPLE RESULTS **********

Unit: ORGANIC CHEMISTRY Reviewed By PDS on 19-DEC-08

Note: Positive Organic Results are indicated by BOLD.

	Result Codes	Result	Rept Level	Units	Analysis Date
468 VOCs in Water by GC/MS -EPA 524.2					
Dibromomethane	<	0.5	0.5	ug/L	17-DEC-08 16:56
1,2-Dichlorobenzene	<	0.2	0.2	ug/L	17-DEC-08 16:56
1,3-Dichlorobenzene	<	0.2	0.2	ug/L	17-DEC-08 16:56
1,4-Dichlorobenzene	<	0.2	0.2	ug/L	17-DEC-08 16:56
Dichlorodifluoromethane	<	1.0	1.0	ug/L	17-DEC-08 16:56
1,1-Dichloroethane	<	0.2	0.2	ug/L	17-DEC-08 16:56
1,2-Dichloroethane	<	0.2	0.2	ug/L	17-DEC-08 16:56
1,1-Dichloroethene	<	0.5	0.5	ug/L	17-DEC-08 16:56
cis-1,2-Dichloroethene	<	0.2	0.2	ug/L	17-DEC-08 16:56
trans-1,2-Dichloroethene	<	0.1	0.1	ug/L	17-DEC-08 16:56
Dichlorofluoromethane	<	0.5	0.5	ug/L	17-DEC-08 16:56
1,2-Dichloropropane	<	0.2	0.2	ug/L	17-DEC-08 16:56
1,3-Dichloropropane	<	0.2	0.2	ug/L	17-DEC-08 16:56
2,2-Dichloropropane	<	0.5	0.5	ug/L	17-DEC-08 16:56
1,1-Dichloropropene	<	0.2	0.2	ug/L	17-DEC-08 16:56
cis-1,3-Dichloropropene	<	0.2	0.2	ug/L	17-DEC-08 16:56
trans-1,3-Dichloropropene	<	0.2	0.2	ug/L	17-DEC-08 16:56
Ethylbenzene	<	0.5	0.5	ug/L	17-DEC-08 16:56
Ethyl ether	<	2.0	2.0	ug/L	17-DEC-08 16:56
Hexachlorobutadiene	<	1.0	1.0	ug/L	17-DEC-08 16:56
Isopropylbenzene	<	0.5	0.5	ug/L	17-DEC-08 16:56
p-Isopropyltoluene	<	0.5	0.5	ug/L	17-DEC-08 16:56
Methylene chloride	<	0.5	0.5	ug/L	17-DEC-08 16:56
Methyl ethyl ketone (MEK)	<	10	10	ug/L	17-DEC-08 16:56
Methyl isobutyl ketone (MIBK)	<	5.0	5.0	ug/L	17-DEC-08 16:56
Methyl tertiary butyl ether (MTBE)	<	2.0	2.0	ug/L	17-DEC-08 16:56

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Program: **PL**
Program Name: **MPCA-32 METRO MERLA-SF**
Request Number: **340627**

Date Received: **15-DEC-2008**
Date Generated: **19-DEC-2008**
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Samples: 200836025 - 200836028

Date Reported: **19-DEC-2008**

Site ID	Project Name	Sampled By
-	**EDINA GW SITE**	**DAVID ANDERSON**

Sample No: **200836026**

Receiving Comments: **-**

Coll Date	Coll Time	Field No	Sampling Point
15-DEC-2008	**0945**	-	**EDINA OPCJ WELL**

Trip Blank	Field Blank
-	**200836025**

********** SAMPLE RESULTS **********

Unit: ORGANIC CHEMISTRY Reviewed By PDS on **19-DEC-08**

Note: Positive Organic Results are indicated by BOLD.

	Result Codes		Result	Rept Level	Units	Analysis Date
58 VOCs in Water by GC/MS -EPA 524.2						
Naphthalene		<	1.0	1.0	ug/L	17-DEC-08 16:56
n-Propylbenzene		<	0.5	0.5	ug/L	17-DEC-08 16:56
Styrene		<	0.5	0.5	ug/L	17-DEC-08 16:56
1,1,1,2-Tetrachloroethane		<	0.2	0.2	ug/L	17-DEC-08 16:56
1,1,2,2-Tetrachloroethane		<	0.2	0.2	ug/L	17-DEC-08 16:56
Tetrachloroethene		<	0.2	0.2	ug/L	17-DEC-08 16:56
Tetrahydrofuran (THF)		<	10	10	ug/L	17-DEC-08 16:56
Toluene		<	0.5	0.5	ug/L	17-DEC-08 16:56
1,2,3-Trichlorobenzene		<	1.0	1.0	ug/L	17-DEC-08 16:56
1,2,4-Trichlorobenzene		<	0.5	0.5	ug/L	17-DEC-08 16:56
1,1,1-Trichloroethane		<	0.2	0.2	ug/L	17-DEC-08 16:56
1,1,2-Trichloroethane		<	0.2	0.2	ug/L	17-DEC-08 16:56
Trichloroethene (TCE)		<	0.1	0.1	ug/L	17-DEC-08 16:56
Trichlorofluoromethane		<	0.5	0.5	ug/L	17-DEC-08 16:56
1,2,3-Trichloropropane		<	0.5	0.5	ug/L	17-DEC-08 16:56
1,1,2-Trichlorotrifluoroethane		<	0.2	0.2	ug/L	17-DEC-08 16:56
1,2,4-Trimethylbenzene		<	0.5	0.5	ug/L	17-DEC-08 16:56
1,3,5-Trimethylbenzene		<	0.5	0.5	ug/L	17-DEC-08 16:56
Vinyl chloride		<	0.2	0.2	ug/L	17-DEC-08 16:56
o-Xylene		<	0.2	0.2	ug/L	17-DEC-08 16:56
p&m-Xylene		<	0.3	0.3	ug/L	17-DEC-08 16:56

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Program: **PL**
Program Name: **MPCA-32 METRO MERLA-SF**
Request Number: **340627**

Date Received: **15-DEC-2008**
Date Generated: **19-DEC-2008**
Request Page: **7 of 19**

Samples: 200836025 - 200836028

Date Reported: **19-DEC-2008**

Site ID	Project Name	Sampled By
-	**EDINA GW SITE**	**DAVID ANDERSON**

Sample No: **200836027**

Receiving Comments: -

Coll Date	Coll Time	Field No	Sampling Point
15-DEC-2008	**1025**	-	**EDINA WELL 7**

Trip Blank	Field Blank
-	**200836025**

********** SAMPLE RESULTS **********

Unit: ORGANIC CHEMISTRY Reviewed By **PDS** on **19-DEC-08**

Note: Positive Organic Results are indicated by BOLD.

	Result Codes	Result	Rept Level	Units	Analysis Date
468 VOCs in Water by GC/MS -EPA 524.2					
4-Bromofluorobenzene (surrogate)		**97**	**70-130**	**% Recovery**	**17-DEC-08 17:25**
Dibromofluoromethane (surrogate)		**111**	**70-130**	**% Recovery**	**17-DEC-08 17:25**
1,2-Dichlorobenzene-D4 (surrogate)		**102**	**70-130**	**% Recovery**	**17-DEC-08 17:25**
1,2-Dichloroethane-D4 (surrogate)		**105**	**70-130**	**% Recovery**	**17-DEC-08 17:25**
Toluene-D8 (surrogate)		**103**	**70-130**	**% Recovery**	**17-DEC-08 17:25**
Acetone	<	20	20	ug/L	17-DEC-08 17:25
Allyl chloride	<	0.5	0.5	ug/L	17-DEC-08 17:25
Benzene	<	0.2	0.2	ug/L	17-DEC-08 17:25
Bromobenzene	<	0.2	0.2	ug/L	17-DEC-08 17:25
Bromochloromethane	<	0.5	0.5	ug/L	17-DEC-08 17:25
Bromodichloromethane	<	0.2	0.2	ug/L	17-DEC-08 17:25
Bromoform	<	0.5	0.5	ug/L	17-DEC-08 17:25
Bromomethane	<	1.0	1.0	ug/L	17-DEC-08 17:25
n-Butylbenzene	<	0.5	0.5	ug/L	17-DEC-08 17:25
sec-Butylbenzene	<	0.5	0.5	ug/L	17-DEC-08 17:25
tert-Butylbenzene	<	0.5	0.5	ug/L	17-DEC-08 17:25
Carbon tetrachloride	<	0.2	0.2	ug/L	17-DEC-08 17:25
Chlorobenzene	<	0.2	0.2	ug/L	17-DEC-08 17:25
Chlorodibromomethane	<	0.5	0.5	ug/L	17-DEC-08 17:25
Chloroethane	<	0.5	0.5	ug/L	17-DEC-08 17:25
Chloroform	<	0.1	0.1	ug/L	17-DEC-08 17:25
Chloromethane	<	1.0	1.0	ug/L	17-DEC-08 17:25
2-Chlorotoluene	<	0.5	0.5	ug/L	17-DEC-08 17:25
4-Chlorotoluene	<	0.5	0.5	ug/L	17-DEC-08 17:25
1,2-Dibromo-3-chloropropane (DBCP)	<	2.0	2.0	ug/L	17-DEC-08 17:25
1,2-Dibromoethane (EDB)	<	0.5	0.5	ug/L	17-DEC-08 17:25

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Program: **PL**
Program Name: **MPCA-32 METRO MERLA-SF**
Request Number: **340627**

Date Received: **15-DEC-2008**
Date Generated: **19-DEC-2008**
Request Page: **8 of 19**

Samples: 200836025 - 200836028

Date Reported: **19-DEC-2008**

Site ID	Project Name	Sampled By
-	**EDINA GW SITE**	**DAVID ANDERSON**

Sample No: **200836027**

Receiving Comments: -

Coll Date	Coll Time	Field No	Sampling Point
15-DEC-2008	**1025**	-	**EDINA WELL 7**

Trip Blank	Field Blank
-	**200836025**

********** SAMPLE RESULTS **********

Unit: ORGANIC CHEMISTRY Reviewed By PDS on 19-DEC-08

Note: Positive Organic Results are indicated by BOLD.

	Result Codes	Result	Rept Level	Units	Analysis Date
68 VOCs in Water by GC/MS -EPA 524.2					
Dibromomethane	<	0.5	0.5	ug/L	17-DEC-08 17:25
1,2-Dichlorobenzene	<	0.2	0.2	ug/L	17-DEC-08 17:25
1,3-Dichlorobenzene	<	0.2	0.2	ug/L	17-DEC-08 17:25
1,4-Dichlorobenzene	<	0.2	0.2	ug/L	17-DEC-08 17:25
Dichlorodifluoromethane	<	1.0	1.0	ug/L	17-DEC-08 17:25
1,1-Dichloroethane	<	0.2	0.2	ug/L	17-DEC-08 17:25
1,2-Dichloroethane	<	0.2	0.2	ug/L	17-DEC-08 17:25
1,1-Dichloroethene	<	0.5	0.5	ug/L	17-DEC-08 17:25
cis-1,2-Dichloroethene		**1.0**	**0.2**	**ug/L**	**17-DEC-08 17:25**
trans-1,2-Dichloroethene	<	0.1	0.1	ug/L	17-DEC-08 17:25
Dichlorofluoromethane	<	0.5	0.5	ug/L	17-DEC-08 17:25
1,2-Dichloropropane	<	0.2	0.2	ug/L	17-DEC-08 17:25
1,3-Dichloropropane	<	0.2	0.2	ug/L	17-DEC-08 17:25
2,2-Dichloropropane	<	0.5	0.5	ug/L	17-DEC-08 17:25
1,1-Dichloropropene	<	0.2	0.2	ug/L	17-DEC-08 17:25
cis-1,3-Dichloropropene	<	0.2	0.2	ug/L	17-DEC-08 17:25
trans-1,3-Dichloropropene	<	0.2	0.2	ug/L	17-DEC-08 17:25
Ethylbenzene	<	0.5	0.5	ug/L	17-DEC-08 17:25
Ethyl ether	<	2.0	2.0	ug/L	17-DEC-08 17:25
Hexachlorobutadiene	<	1.0	1.0	ug/L	17-DEC-08 17:25
Isopropylbenzene	<	0.5	0.5	ug/L	17-DEC-08 17:25
p-Isopropyltoluene	<	0.5	0.5	ug/L	17-DEC-08 17:25
Methylene chloride	<	0.5	0.5	ug/L	17-DEC-08 17:25
Methyl ethyl ketone (MEK)	<	10	10	ug/L	17-DEC-08 17:25
Methyl isobutyl ketone (MIBK)	<	5.0	5.0	ug/L	17-DEC-08 17:25
Methyl tertiary butyl ether (MTBE)	<	2.0	2.0	ug/L	17-DEC-08 17:25

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Program: **PL**
Program Name: **MPCA-32 METRO MERLA-SF**
Request Number: **340627**

Date Received: **15-DEC-2008**
Date Generated: **19-DEC-2008**
Request Page: **9 of 19**

Samples: 200836025 - 200836028

Date Reported: **19-DEC-2008**

Site ID	Project Name	Sampled By
-	**EDINA GW SITE**	**DAVID ANDERSON**

Sample No: 200836027

Receiving Comments: -

Coll Date	Coll Time	Field No	Sampling Point
15-DEC-2008	**1025**	-	**EDINA WELL 7**

Trip Blank	Field Blank
-	**200836025**

********** SAMPLE RESULTS **********

Unit: ORGANIC CHEMISTRY Reviewed By PDS on 19-DEC-08

Note: Positive Organic Results are indicated by BOLD.

	Result Codes	Result	Rept Level	Units	Analysis Date
468 VOCs in Water by GC/MS -EPA 524.2					
Naphthalene	<	1.0	1.0	ug/L	17-DEC-08 17:25
n-Propylbenzene	<	0.5	0.5	ug/L	17-DEC-08 17:25
Styrene	<	0.5	0.5	ug/L	17-DEC-08 17:25
1,1,1,2-Tetrachloroethane	<	0.2	0.2	ug/L	17-DEC-08 17:25
1,1,2,2-Tetrachloroethane	<	0.2	0.2	ug/L	17-DEC-08 17:25
Tetrachloroethene	<	0.2	0.2	ug/L	17-DEC-08 17:25
Tetrahydrofuran (THF)	<	10	10	ug/L	17-DEC-08 17:25
Toluene	<	0.5	0.5	ug/L	17-DEC-08 17:25
1,2,3-Trichlorobenzene	<	1.0	1.0	ug/L	17-DEC-08 17:25
1,2,4-Trichlorobenzene	<	0.5	0.5	ug/L	17-DEC-08 17:25
1,1,1-Trichloroethane	<	0.2	0.2	ug/L	17-DEC-08 17:25
1,1,2-Trichloroethane	<	0.2	0.2	ug/L	17-DEC-08 17:25
Trichloroethene (TCE)	<	0.1	0.1	ug/L	17-DEC-08 17:25
Trichlorofluoromethane	<	0.5	0.5	ug/L	17-DEC-08 17:25
1,2,3-Trichloropropane	<	0.5	0.5	ug/L	17-DEC-08 17:25
1,1,2-Trichlorotrifluoroethane	<	0.2	0.2	ug/L	17-DEC-08 17:25
1,2,4-Trimethylbenzene	<	0.5	0.5	ug/L	17-DEC-08 17:25
1,3,5-Trimethylbenzene	<	0.5	0.5	ug/L	17-DEC-08 17:25
Vinyl chloride	<	0.2	0.2	ug/L	17-DEC-08 17:25
o-Xylene	<	0.2	0.2	ug/L	17-DEC-08 17:25
p&m-Xylene	<	0.3	0.3	ug/L	17-DEC-08 17:25

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Program: PL
Program Name: MPCA-32 METRO MERLA-SP
Request Number: 340627

Date Received: 15-DEC-2008
Date Generated: 19-DEC-2008
Request Page: 10 of 19

Samples: 200836025 - 200836028

Date Reported: 19-DEC-2008

Site ID	Project Name	Sampled By
-	EDINA GW SITE	DAVID ANDERSON

Sample No: 200836028

Receiving Comments: -

Coll Date	Coll Time	Field No	Sampling Point
15-DEC-2008	1025	-	DUPLICATE

Trip Blank	Field Blank
-	200836025

********** SAMPLE RESULTS **********

Unit: ORGANIC CHEMISTRY Reviewed By PDS on 19-DEC-08

Note: Positive Organic Results are indicated by BOLD.

	Result Codes	Result	Rept Level	Units	Analysis Date
68 VOCs in Water by GC/MS -EPA 524.2					
4-Bromofluorobenzene (surrogate)		97	70-130	% Recovery	17-DEC-08 17:54
Dibromofluoromethane (surrogate)		111	70-130	% Recovery	17-DEC-08 17:54
1,2-Dichlorobenzene-D4 (surrogate)		103	70-130	% Recovery	17-DEC-08 17:54
1,2-Dichloroethane-D4 (surrogate)		104	70-130	% Recovery	17-DEC-08 17:54
Toluene-D8 (surrogate)		102	70-130	% Recovery	17-DEC-08 17:54
Acetone	<	20	20	ug/L	17-DEC-08 17:54
Allyl chloride	<	0.5	0.5	ug/L	17-DEC-08 17:54
Benzene	<	0.2	0.2	ug/L	17-DEC-08 17:54
Bromobenzene	<	0.2	0.2	ug/L	17-DEC-08 17:54
Bromochloromethane	<	0.5	0.5	ug/L	17-DEC-08 17:54
Bromodichloromethane	<	0.2	0.2	ug/L	17-DEC-08 17:54
Bromoform	<	0.5	0.5	ug/L	17-DEC-08 17:54
Bromomethane	<	1.0	1.0	ug/L	17-DEC-08 17:54
n-Butylbenzene	<	0.5	0.5	ug/L	17-DEC-08 17:54
sec-Butylbenzene	<	0.5	0.5	ug/L	17-DEC-08 17:54
tert-Butylbenzene	<	0.5	0.5	ug/L	17-DEC-08 17:54
Carbon tetrachloride	<	0.2	0.2	ug/L	17-DEC-08 17:54
Chlorobenzene	<	0.2	0.2	ug/L	17-DEC-08 17:54
Chlorodibromomethane	<	0.5	0.5	ug/L	17-DEC-08 17:54
Chloroethane	<	0.5	0.5	ug/L	17-DEC-08 17:54
Chloroform	<	0.1	0.1	ug/L	17-DEC-08 17:54
Chloromethane	<	1.0	1.0	ug/L	17-DEC-08 17:54
2-Chlorotoluene	<	0.5	0.5	ug/L	17-DEC-08 17:54
4-Chlorotoluene	<	0.5	0.5	ug/L	17-DEC-08 17:54
1,2-Dibromo-3-chloropropane (DBCP)	<	2.0	2.0	ug/L	17-DEC-08 17:54
1,2-Dibromoethane (EDB)	<	0.5	0.5	ug/L	17-DEC-08 17:54

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Program: **PL**
Program Name: **MPCA-32 METRO MERLA-SF**
Request Number: **340627**

Date Received: **15-DEC-2008**
Date Generated: **19-DEC-2008**
Request Page: **11 of 19**

Samples: 200836025 - 200836028

Date Reported: **19-DEC-2008**

Site ID	Project Name	Sampled By
-	**EDINA GW SITE**	**DAVID ANDERSON**

Sample No: 200836028

Receiving Comments: -

Coll Date	Coll Time	Field No	Sampling Point
15-DEC-2008	**1025**	-	**DUPLICATE**

Trip Blank	Field Blank
-	**200836025**

********** SAMPLE RESULTS **********

Unit: ORGANIC CHEMISTRY Reviewed By **PDS** on 19-DEC-08

Note: Positive Organic Results are indicated by BOLD.

	Result Codes	Result	Rept Level	Units	Analysis Date
468 VOCs in Water by GC/MS -EPA 524.2					
Dibromomethane	<	0.5	0.5	ug/L	17-DEC-08 17:54
1,2-Dichlorobenzene	<	0.2	0.2	ug/L	17-DEC-08 17:54
1,3-Dichlorobenzene	<	0.2	0.2	ug/L	17-DEC-08 17:54
1,4-Dichlorobenzene	<	0.2	0.2	ug/L	17-DEC-08 17:54
Dichlorodifluoromethane	<	1.0	1.0	ug/L	17-DEC-08 17:54
1,1-Dichloroethane	<	0.2	0.2	ug/L	17-DEC-08 17:54
1,2-Dichloroethane	<	0.2	0.2	ug/L	17-DEC-08 17:54
1,1-Dichloroethene	<	0.5	0.5	ug/L	17-DEC-08 17:54
cis-1,2-Dichloroethene		**1.0**	**0.2**	**ug/L**	**17-DEC-08 17:54**
trans-1,2-Dichloroethene	<	0.1	0.1	ug/L	17-DEC-08 17:54
Dichlorofluoromethane	<	0.5	0.5	ug/L	17-DEC-08 17:54
1,2-Dichloropropane	<	0.2	0.2	ug/L	17-DEC-08 17:54
1,3-Dichloropropane	<	0.2	0.2	ug/L	17-DEC-08 17:54
2,2-Dichloropropane	<	0.5	0.5	ug/L	17-DEC-08 17:54
1,1-Dichloropropene	<	0.2	0.2	ug/L	17-DEC-08 17:54
cis-1,3-Dichloropropene	<	0.2	0.2	ug/L	17-DEC-08 17:54
trans-1,3-Dichloropropene	<	0.2	0.2	ug/L	17-DEC-08 17:54
Ethylbenzene	<	0.5	0.5	ug/L	17-DEC-08 17:54
Ethyl ether	<	2.0	2.0	ug/L	17-DEC-08 17:54
Hexachlorobutadiene	<	1.0	1.0	ug/L	17-DEC-08 17:54
Isopropylbenzene	<	0.5	0.5	ug/L	17-DEC-08 17:54
p-Isopropyltoluene	<	0.5	0.5	ug/L	17-DEC-08 17:54
Methylene chloride	<	0.5	0.5	ug/L	17-DEC-08 17:54
Methyl ethyl ketone (MEK)	<	10	10	ug/L	17-DEC-08 17:54
Methyl isobutyl ketone (MIBK)	<	5.0	5.0	ug/L	17-DEC-08 17:54
Methyl tertiary butyl ether (MTBE)	<	2.0	2.0	ug/L	17-DEC-08 17:54

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Program: PL
Program Name: MPCA-32 METRO MERLA-SF
Request Number: 340627

Date Received: 15-DEC-2008
Date Generated: 19-DEC-2008
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Samples: 200836025 - 200836028

Date Reported: 19-DEC-2008

Site ID	Project Name	Sampled By
-	EDINA GW SITE	DAVID ANDERSON

Sample No: 200836028

Receiving Comments: -

Coll Date	Coll Time	Field No	Sampling Point
15-DEC-2008	1025	-	DUPLICATE

Trip Blank	Field Blank
-	200836025

********** SAMPLE RESULTS **********

Unit: ORGANIC CHEMISTRY Reviewed By PDS on 19-DEC-08

Note: Positive Organic Results are indicated by BOLD.

	Result Codes	Result	Rept Level	Units	Analysis Date
168 VOCs in Water by GC/MS -EPA 524.2					
Naphthalene	<	1.0	1.0	ug/L	17-DEC-08 17:54
n-Propylbenzene	<	0.5	0.5	ug/L	17-DEC-08 17:54
Styrene	<	0.5	0.5	ug/L	17-DEC-08 17:54
1,1,1,2-Tetrachloroethane	<	0.2	0.2	ug/L	17-DEC-08 17:54
1,1,2,2-Tetrachloroethane	<	0.2	0.2	ug/L	17-DEC-08 17:54
Tetrachloroethene	<	0.2	0.2	ug/L	17-DEC-08 17:54
Tetrahydrofuran (THF)	<	10	10	ug/L	17-DEC-08 17:54
Toluene	<	0.5	0.5	ug/L	17-DEC-08 17:54
1,2,3-Trichlorobenzene	<	1.0	1.0	ug/L	17-DEC-08 17:54
1,2,4-Trichlorobenzene	<	0.5	0.5	ug/L	17-DEC-08 17:54
1,1,1-Trichloroethane	<	0.2	0.2	ug/L	17-DEC-08 17:54
1,1,2-Trichloroethane	<	0.2	0.2	ug/L	17-DEC-08 17:54
Trichloroethene (TCE)	<	0.1	0.1	ug/L	17-DEC-08 17:54
Trichlorofluoromethane	<	0.5	0.5	ug/L	17-DEC-08 17:54
1,2,3-Trichloropropane	<	0.5	0.5	ug/L	17-DEC-08 17:54
1,1,2-Trichlorotrifluoroethane	<	0.2	0.2	ug/L	17-DEC-08 17:54
1,2,4-Trimethylbenzene	<	0.5	0.5	ug/L	17-DEC-08 17:54
1,3,5-Trimethylbenzene	<	0.5	0.5	ug/L	17-DEC-08 17:54
Vinyl chloride	<	0.2	0.2	ug/L	17-DEC-08 17:54
o-Xylene	<	0.2	0.2	ug/L	17-DEC-08 17:54
p&m-Xylene	<	0.3	0.3	ug/L	17-DEC-08 17:54

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Program: PL
Program Name: MPCA-32 METRO MERLA-SF
Request Number: 340627

Date Received: 15-DEC-2008
Date Generated: 19-DEC-2008
Request Page: 13 of 19

Samples: 200836025 - 200836028

Date Reported: 19-DEC-2008

Site ID	Project Name	Sampled By
-	EDINA GW SITE	DAVID ANDERSON

Quality Control Batch ID: 20081217.11 AN: 468

All samples analyzed in the batch

200835882, 200835883, 200835886, 200835900, 200835923, 200835924, 200835925, 200835926, 200836025, 200836026, 200836027, 200836028, 200836051, 200836052, 200836053

VOCs in Water by GC/MS
EPA 524.2

Sample	Collection Date	Analysis Date	Analysis Time	Holding Time	Acceptable
200836025	15-DEC-08	17-DEC-08	2	14 DAYS	Y
200836026	15-DEC-08	17-DEC-08	2	14 DAYS	Y
200836027	15-DEC-08	17-DEC-08	2	14 DAYS	Y
200836028	15-DEC-08	17-DEC-08	2	14 DAYS	Y

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Program: PL
Program Name: MPCA-32 METRO MERLA-SF
Request Number: 340627

Date Received: 15-DEC-2008
Date Generated: 19-DEC-2008
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Samples: 200836025 - 200836028

Date Reported: 19-DEC-2008

Site ID	Project Name	Sampled By
-	EDINA GW SITE	DAVID ANDERSON

Quality Control Batch ID: 20081217.11 AN: 468

Method Blank

	Result Code	Surrogate % Recovery	Accept Limits
4-Bromofluorobenzene (surrogate)		94	70-130
Dibromofluoromethane (surrogate)		110	70-130
1,2-Dichlorobenzene-D4 (surrogate)		96	70-130
1,2-Dichloroethane-D4 (surrogate)		103	70-130
Toluene-D8 (surrogate)		102	70-130

	Result	Report Level	Units	Control Limit
Acetone	<	20	ug/L	20
Allyl chloride	<	0.5	ug/L	0.5
Benzene	<	0.2	ug/L	0.2
Bromobenzene	<	0.2	ug/L	0.2
Bromochloromethane	<	0.5	ug/L	0.5
Bromodichloromethane	<	0.2	ug/L	0.2
Bromoform	<	0.5	ug/L	0.5
Bromomethane	<	1.0	ug/L	1.0
n-Butylbenzene	<	0.5	ug/L	0.5
sec-Butylbenzene	<	0.5	ug/L	0.5
tert-Butylbenzene	<	0.5	ug/L	0.5
Carbon tetrachloride	<	0.2	ug/L	0.2
Chlorobenzene	<	0.2	ug/L	0.2
Chlorodibromomethane	<	0.5	ug/L	0.5
Chloroethane	<	0.5	ug/L	0.5
Chloroform	<	0.1	ug/L	0.1
Chloromethane	<	1.0	ug/L	1.0
2-Chlorotoluene	<	0.5	ug/L	0.5
4-Chlorotoluene	<	0.5	ug/L	0.5
1,2-Dibromo-3-chloropropane (DBCP)	<	2.0	ug/L	2.0
1,2-Dibromoethane (EDB)	<	0.5	ug/L	0.5
Dibromomethane	<	0.5	ug/L	0.5
1,2-Dichlorobenzene	<	0.2	ug/L	0.2
1,3-Dichlorobenzene	<	0.2	ug/L	0.2
1,4-Dichlorobenzene	<	0.2	ug/L	0.2
Dichlorodifluoromethane	<	1.0	ug/L	1.0

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Final Report - Client Copy - Report Of Analytical Results

Program: PL
Program Name: MPCA-32 METRO MERLA-SF
Request Number: 340627

Date Received: 15-DEC-2008
Date Generated: 19-DEC-2008
Request Page: 15 of 19

Samples: 200836025 - 200836028

Date Reported: 19-DEC-2008

Site ID	Project Name	Sampled By
-	EDINA GW SITE	DAVID ANDERSON

Quality Control Batch ID: 20081217.11 AN: 468

Method Blank

	Result	Report Level	Units	Control Limit
1,1-Dichloroethane	<	0.2	ug/L	0.2
1,2-Dichloroethane	<	0.2	ug/L	0.2
1,1-Dichloroethene	<	0.5	ug/L	0.5
cis-1,2-Dichloroethene	<	0.2	ug/L	0.2
trans-1,2-Dichloroethene	<	0.1	ug/L	0.1
Dichlorofluoromethane	<	0.5	ug/L	0.5
1,2-Dichloropropane	<	0.2	ug/L	0.2
1,3-Dichloropropane	<	0.2	ug/L	0.2
2,2-Dichloropropane	<	0.5	ug/L	0.5
1,1-Dichloropropene	<	0.2	ug/L	0.2
cis-1,3-Dichloropropene	<	0.2	ug/L	0.2
trans-1,3-Dichloropropene	<	0.2	ug/L	0.2
Ethylbenzene	<	0.5	ug/L	0.5
Ethyl ether	<	2.0	ug/L	2.0
Hexachlorobutadiene	<	1.0	ug/L	1.0
Isopropylbenzene	<	0.5	ug/L	0.5
p-Isopropyltoluene	<	0.5	ug/L	0.5
Methylene chloride	<	0.5	ug/L	0.5
Methyl ethyl ketone (MEK)	<	10	ug/L	10
Methyl isobutyl ketone (MIBK)	<	5.0	ug/L	5.0
Methyl tertiary butyl ether (MTBE)	<	2.0	ug/L	2.0
Naphthalene	<	1.0	ug/L	1.0
n-Propylbenzene	<	0.5	ug/L	0.5
Styrene	<	0.5	ug/L	0.5
1,1,1,2-Tetrachloroethane	<	0.2	ug/L	0.2
1,1,2,2-Tetrachloroethane	<	0.2	ug/L	0.2
Tetrachloroethene	<	0.2	ug/L	0.2
Tetrahydrofuran (THF)	<	10	ug/L	10
Toluene	<	0.5	ug/L	0.5
1,2,3-Trichlorobenzene	<	1.0	ug/L	1.0
1,2,4-Trichlorobenzene	<	0.5	ug/L	0.5
1,1,1-Trichloroethane	<	0.2	ug/L	0.2
1,1,2-Trichloroethane	<	0.2	ug/L	0.2
Trichloroethene (TCE)	<	0.1	ug/L	0.1

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Program: PL
Program Name: MPCA-32 METRO MERLA-SF
Request Number: 340627

Date Received: 15-DEC-2008
Date Generated: 19-DEC-2008
Request Page: 16 of 19

Samples: 200836025 - 200836028

Date Reported: 19-DEC-2008

Site ID	Project Name	Sampled By
-	EDINA GW SITE	DAVID ANDERSON

Quality Control Batch ID: 20081217.11 AN: 468

Method Blank

	Result	Report Level	Units	Control Limit
Trichlorofluoromethane	<	0.5	ug/L	0.5
1,2,3-Trichloropropane	<	0.5	ug/L	0.5
1,1,2-Trichlorotrifluoroethane	<	0.2	ug/L	0.2
1,2,4-Trimethylbenzene	<	0.5	ug/L	0.5
1,3,5-Trimethylbenzene	<	0.5	ug/L	0.5
Vinyl chloride	<	0.2	ug/L	0.2
o-Xylene	<	0.2	ug/L	0.2
p&m-Xylene	<	0.3	ug/L	0.3

Laboratory Control Samples

	Result Code	LCS %Recovery	LCSD %Recovery	Accept. Limits
4-Bromofluorobenzene (surrogate)		95	94	70-130
Dibromofluoromethane (surrogate)		112	112	70-130
1,2-Dichlorobenzene-D4 (surrogat		91	90	70-130
1,2-Dichloroethane-D4 (surrogate		102	97	70-130
Toluene-D8 (surrogate)		105	106	70-130

	Spike Level	Units	Spike %Rec	Dup %Rec	RPD	%Rec Req	RPD Req
Acetone	5	ug/L	90	100	10	70-130	30
Allyl chloride	5	ug/L	103	96	7	70-130	30
Benzene	5	ug/L	104	102	2	70-130	30
Bromobenzene	5	ug/L	103	102	2	70-130	30
Bromochloromethane	5	ug/L	106	104	2	70-130	30
Bromodichloromethane	5	ug/L	115	106	9	70-130	30
Bromoform	5	ug/L	119	98	19	70-130	30
Bromomethane	5	ug/L	106	94	12	70-130	30
n-Butylbenzene	5	ug/L	80	77	5	70-130	30

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Program: PL
Program Name: MPCA-32 METRO MERLA-SF
Request Number: 340627

Date Received: 15-DEC-2008
Date Generated: 19-DEC-2008
Request Page: 17 of 19

Samples: 200836025 - 200836028

Date Reported: 19-DEC-2008

Site ID	Project Name	Sampled By
-	EDINA GW SITE	DAVID ANDERSON

Quality Control Batch ID: 20081217.11 AN: 468

Laboratory Control Samples

	Spike Level	Units	Spike %Rec	Dup %Rec	RPD	%Rec Req	RPD Req
sec-Butylbenzene	5	ug/L	98	97	1	70-130	30
tert-Butylbenzene	5	ug/L	94	93	1	70-130	30
Carbon tetrachloride	5	ug/L	120	107	12	70-130	30
Chlorobenzene	5	ug/L	104	104	0	70-130	30
Chlorodibromomethane	5	ug/L	115	104	10	70-130	30
Chloroethane	5	ug/L	97	96	1	70-130	30
Chloroform	5	ug/L	112	109	2	70-130	30
Chloromethane	5	ug/L	85	85	1	70-130	30
2-Chlorotoluene	5	ug/L	108	107	1	70-130	30
4-Chlorotoluene	5	ug/L	95	94	2	70-130	30
1,2-Dibromo-3-chloropropane (D	5	ug/L	97	91	7	70-130	30
1,2-Dibromoethane (EDB)	5	ug/L	105	106	0	70-130	30
Dibromomethane	5	ug/L	109	107	2	70-130	30
1,2-Dichlorobenzene	5	ug/L	99	99	1	70-130	30
1,3-Dichlorobenzene	5	ug/L	105	105	0	70-130	30
1,4-Dichlorobenzene	5	ug/L	100	101	1	70-130	30
Dichlorodifluoromethane	5	ug/L	80	74	7	70-130	30
1,1-Dichloroethane	5	ug/L	109	107	2	70-130	30
1,2-Dichloroethane	5	ug/L	116	115	1	70-130	30
1,1-Dichloroethene	5	ug/L	102	99	3	70-130	30
cis-1,2-Dichloroethene	5	ug/L	103	103	0	70-130	30
trans-1,2-Dichloroethene	5	ug/L	104	101	3	70-130	30
Dichlorofluoromethane	5	ug/L	103	104	1	70-130	30
1,2-Dichloropropane	5	ug/L	104	102	2	70-130	30
1,3-Dichloropropane	5	ug/L	106	106	0	70-130	30
2,2-Dichloropropane	5	ug/L	116	93	22	70-130	30
1,1-Dichloropropene	5	ug/L	108	105	3	70-130	30
cis-1,3-Dichloropropene	5	ug/L	97	92	6	70-130	30

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Final Report - Client Copy - Report Of Analytical Results

Program: PL
Program Name: MPCA-32 METRO MERLA-SF
Request Number: 340627

Date Received: 15-DEC-2008
Date Generated: 19-DEC-2008
Request Page: 18 of 19

Samples: 200836025 - 200836028

Date Reported: 19-DEC-2008

Site ID	Project Name	Sampled By
-	EDINA GW SITE	DAVID ANDERSON

Quality Control Batch ID: 20081217.11 AN: 468

Laboratory Control Samples

	Spike Level	Units	Spike %Rec	Dup %Rec	RPD	%Rec Req	RPD Req
trans-1,3-Dichloropropene	5	ug/L	92	86	6	70-130	30
Ethylbenzene	5	ug/L	90	88	2	70-130	30
Ethyl ether	5	ug/L	104	107	2	70-130	30
Hexachlorobutadiene	5	ug/L	102	100	2	70-130	30
Isopropylbenzene	5	ug/L	102	100	2	70-130	30
p-Isopropyltoluene	5	ug/L	87	85	2	70-130	30
Methylene chloride	5	ug/L	104	105	1	70-130	30
Methyl ethyl ketone (MEK)	5	ug/L	95	98	3	70-130	30
Methyl isobutyl ketone (MIBK)	5	ug/L	92	97	6	70-130	30
Methyl tertiary butyl ether (M	5	ug/L	111	109	2	70-130	30
Naphthalene	5	ug/L	77	77	0	70-130	30
n-Propylbenzene	5	ug/L	98	96	2	70-130	30
Styrene	5	ug/L	93	93	1	70-130	30
1,1,1,2-Tetrachloroethane	5	ug/L	111	105	5	70-130	30
1,1,2,2-Tetrachloroethane	5	ug/L	94	95	0	70-130	30
Tetrachloroethene	5	ug/L	105	103	2	70-130	30
Tetrahydrofuran (THF)	5	ug/L	104	92	12	70-130	30
Toluene	5	ug/L	101	101	0	70-130	30
1,2,3-Trichlorobenzene	5	ug/L	90	91	1	70-130	30
1,2,4-Trichlorobenzene	5	ug/L	91	93	1	70-130	30
1,1,1-Trichloroethane	5	ug/L	114	106	7	70-130	30
1,1,2-Trichloroethane	5	ug/L	100	100	0	70-130	30
Trichloroethene (TCE)	5	ug/L	104	102	3	70-130	30
Trichlorofluoromethane	5	ug/L	109	106	3	70-130	30
1,2,3-Trichloropropane	5	ug/L	98	98	0	70-130	30
1,1,2-Trichlorotrifluoroethane	5	ug/L	105	100	5	70-130	30
1,2,4-Trimethylbenzene	5	ug/L	88	86	3	70-130	30
1,3,5-Trimethylbenzene	5	ug/L	89	88	1	70-130	30

Minnesota Department Of Health - Environmental Laboratory

Final Report - Client Copy - Report Of Analytical Results

Program: PL
Program Name: MPCA-32 METRO MERLA-SF
Request Number: 340627

Date Received: 15-DEC-2008
Date Generated: 19-DEC-2008
Request Page: 19 of 19

Samples: 200836025 - 200836028

Date Reported: 19-DEC-2008

Site ID	Project Name	Sampled By
-	EDINA GW SITE	DAVID ANDERSON

Quality Control Batch ID: 20081217.11 AN: 468

Laboratory Control Samples

	Spike Level	Units	Spike %Rec	Dup %Rec	RPD	%Rec Req	RPD Req
Vinyl chloride	5	ug/L	95	92	4	70-130	30
o-Xylene	5	ug/L	94	93	1	70-130	30
p&m-Xylene	5	ug/L	88	87	1	70-130	30

309 345 6544

Jim Friend

BNSF West Burlington Shop RW- 2 Month 12 Year 08

Date	Time	Flow	P1	P2	P3	P4	R.P.M.	Totalizer	Depth	Remarks	Initials
12/1	1650	5.3	20.0	12.0	4.0	2.0	7.6	11302090	30.8	Sample	JJF
12/5	1000	5.3	20.0	12.0	4.0	2.0	7.6	11331040	31.2	Sys. ck	JJF
12/8	1000	5.3	20.0	12.1	3.9	2.0	7.6	11353635	30.9	Sample before CARBON	JJA
12/12	1700	5.4	20.0	4.0	4.0	0	7.5	11370275	30.1	Sys. ck	JJF
12/14	1400	5.4	19.0	4.0	4.0	0	7.5	11385035	29.1	Sample	JJF
12/19	1470	5.4	19.0	4.0	4.0	0	7.5	11424970	29.8	Sys ck	JJF
12/21	1500	5.5	19.0	4.0	4.0	0	7.5	11440600	29.1	Sample	JJF
12/26	1400	5.5	18.5	4.5	4.0	0	7.5	11479530	29.8	Sys. ck	JJF
12/30	950	5.5	19.0	4.5	4.0	0	7.6	11512070	31.5	Sample	JJF
1/2	1435	5.5	18.0	4.5	4.0	0	7.5	11534825	31.2	Sys ck	JJF

12-8-08 MJH shut system off. begin carbon change 11353734 GALLONS

12-10-08 MJH 11354269

Jim Friend 309 345 6544

BNSF West Burlington Shop RW- 1 Month 12 Year 08

Date	Time	Flow	P1	P2	P3	P4	R.P.M.	Totalizer	Depth	Remarks	Initials
12/1	1500	6.2	6.0	5.5	4.0	0	8.0	4225005	30.0	Sample - Dry Running	JOT
12/5	1030	6.1							32.8	call Pete Moore	
12/5	1030	6.1	8.0	6.5	4.0	0	7.3	4225505	32.8	Sys. ck lower 23 ft	JOT
12/8		No	Sample		pump	failure	-	to Inspect			
12/12	1730	6.9	10.0	8.0	5.5	0		4246285		Dry Running Alarm	
12/12	1730	6.9	10.0	8.0	5.5	0	6.2	4246285	16.1	Sys. ck - (cycling)	JOT
12/14	1300	4.0	6.0	7.0	4.5	0	8.7	4252940	9.9	Sample (cycling)	JOT
12/19	1450	4.0	6.0	7.0	4.5	0	8.9	4271735	12.4	Sys. ck	JOT
12/4	1400	4.0	6.0	7.0	4.5	0	5.6	4278955	18.4	Sample	JOT
12/26	1430	6.2	10.0	8.5	5.5	0	7.4	4297565	17.7	Sys. ck	JOT
12/30	900	6.1	7.9	8.4	5.5	0	7.9	4312575	15.2	Sample	JOT
1/2	1455	0.0	0.0	3.5	2.0	0	4.1	4323545	16.7	Sys ck	JOT

- speed + sensor 1 — Temp. 68° watch for increase

12-9-08 Min 2600 Start 19.1 stop 8.5 4234731 gallons MJH
Max 10,700 18.4 8.1

12-10-08 4238105 MJH sensor 1 Start 18.4 stop 7.9

TO: DAN Phelps

FROM: Jim Friend

Logo - Dec - West B

01/02/2009 14:46 FAX 6512969707 MN. POLLUTION CONTROL 002

MINNESOTA MDH DEPARTMENT OF HEALTH

Chain of Custody

Minnesota Department of Health
Environmental Laboratory
601 Robert St. North
St. Paul, MN 55155-2531

Page 1 of 1

Lab Use Only.

Potential Hazard: Yes/No/Unknown (Circle One).
If Yes please add information to Comments below.

Standard/Civil/Criminal Chain of Custody
(Circle One)

Client/Agency STS Consultants
Project Name Edina GW Site
Site ID
Program Code (2 Letters) PL
Contact Name Peter Rzepecki
Contact Phone # 763-315-6300

Matrix Codes

DW = Drinking Water
SW = Surface Water
GW = Ground Water
WW = Waste Water
SD = Soil/Solid
WP = Wipe
AR = Air
TS = Tissue
OT = Other

Report to MPCA Nile Fellows
MDH ID
Address if Needed

Sampled By (Print): David Anderson
Affiliation: Pace Analytical
Sampler Signature:
Phone:

Containers & Preservatives

#	MDH Sample Number (Lab Use Only)	Field ID	Sample Source/Point	Collection Date	Time (24 Hour)	Matrix Code	Unpreserved	Hydrochloric Acid	Sulfuric Acid	Nitric Acid	Sodium Hydroxide	Sodium Thiosulfate	Ascorbic Acid	Other		Total # of Containers	Samples Field Filtered: Y/N	Requested Analysis:
1			Field Blank	12/15/08	0935	H_2O		3								3	N	
2			Edina OPCJ Well	↓	0945	↓		3								3	N	
3			Edina Well 7	↓	1025	↓		3								3	N	
4			Duplicate	↓	1025	↓		3								3	N	
5																		
6																		
7																		
8																		
9																		
10																		

Sampler Comments:

Receiving Comments:

	Relinquished By / Affiliation	Date	Time	Accepted By / Affiliation	Date	Time
(Sampler)	David Anderson / Pace Analytical	12-15-08	1040	[illegible] / MAH	12-15-08	10:40
	S. Rhodes / MAH	12-15-08	1320	[illegible] / MDH	12-15-08	1320

White Client Copy Yellow Lab Copy Pink Submitter Copy

MDH 1000 31142

ANALYTICAL REPORT

Prepared by
LOCKHEED MARTIN, Inc.

Highway 7 & Wooddale Avenue
Saint Louis Park, MN

July 2008

EPA Work Assignment No. 0-289
LOCKHEED MARTIN Work Order EAC0289
EPA Contract No. EP-C-04-032

Submitted to
G. Newhart
EPA-ERT

Vinod Kansal 7/2/08
V. Kansal Date
Analytical Section Leader

7/2/08
D. Killeen Date
Quality Assurance Officer

7/2/08
D. Miller Date
Program Manager

Analysis by:
PACE Analytical
Services,
REAC

Prepared by:
Y. Mehra

Reviewed by:
J. Soroka

0289-DAR-070208

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Introduction

REAC, in response to WA# 0-289, provided analytical support for environmental samples collected from the Highway 7 and Wooddale Avenue Site located in Saint Louis Park, MN, as described in the following table. The support also included QA/QC, data review and preparation of an analytical report containing analytical and QA/QC results.

COC #	Number of Samples	Sampling Start Date	Date Received	Matrix	Analysis/ Method	Laboratory	Data Package
1198654	9	04/28/08	05/01/08	Water	VOC/ EPA SW-846 8260B	PAS[1]	T 185
	2	04/29/08					
1198655	6						
1198656	4	05/07/08	05/08/08				T 194
1008591	5	05/12/08	05/14/08				T 195
	5	05/13/08					
0289-051208-0001	5	06/11/08	06/13/08			REAC	T208
	3	06/12/08					

[1] PAS, Pace Analytical Services and REAC are NELAC certified for VOC analysis.

Case Narrative

The laboratory reported the data to two and three significant figures. Any other representation of the data is the responsibility of the user. All data validation flags have been inserted into the results tables. The laboratory did not report results less than the RL

VOC in Water Package T 185

Bromomethane, trichlorofluoromethane, acetone, 2-butanone, tetrahydrofuran and naphthalene failed the percent difference (%D) criteria for the continuing calibration of 5/6/08. Naphthalene is qualified estimated (J) for samples W439-042808, W421-042908 and W420-042808.

Bromomethane, trichlorofluoromethane, 1,1,2-trichlorotrifluoroethane, acetone, trans-1,2-dichloroethene, 2,2-dichloropropane, 2-butanone, tetrahydrofuran, 1,1,1-trichloroethane, carbon tetrachloride and naphthalene failed the percent difference (%D) criteria for the continuing calibration of 5/7/08. trans-1,2-dichloroethene is qualified estimated (J) for samples W117-042808, P312-042908 and P309-042908.

trans-1,2-dichloroethene was below the % recovery criteria for the LCS of 5/6/08. trans-1,2-dichloroethene is qualified estimated (J) for samples P112-042808, P308-042808, P310-042808, W427-042808, W439-042808, P307-042808, W427D-042808, W136,042908, W128-042908, P109-042908, W422-042908, W421-042908 and trip blank.

VOC in Water Packages T 194 and T 195

The data packages were reviewed and found to be acceptable.

VOC in Water Packages T208

Acetone and 2-hexanone did not meet the %D criterion for the continuing calibration of 6/16/08. Acetone in sample 0289-50063 is qualified estimated (J).

The surrogate percent recovery for bromoflourobenzene was below the QC criterion for samples 0289-50060 and 0289-50063. All detected results are qualified estimated (J) and non-dectected results are qualified (UJ) for these samples.

Acetone, 2-butanone and 2-hexanone were above % recovery criterion for the LCS of 6/13/08. Acetone in sample 0289-50062 is qualified estimated (J).

Summary of Abbreviations

BFB	Bromofluorobenzene
C	Centigrade
CLP	Contract Laboratory Program
COC	Chain of Custody
conc	concentration
cont	continued
CRDL	Contract Required Detection Limit
CRQL	Contract Required Quantitation Limit
D	(Surrogate Table) value is from a diluted sample and was not calculated
Dioxin	Polychlorinated dibenzo-p-dioxins (PCDD) and Polychlorinated dibenzofurans (PCDF)
DFTPP	Decafluorotriphenylphosphine
EMPC	Estimated maximum possible concentration
GC/MS	Gas Chromatography/ Mass Spectrometry
IS	Internal Standard
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
MDA	Minimum Detectable Activity
MS (BS)	Matrix Spike (Blank Spike)
MSD (BSD)	Matrix Spike Duplicate (Blank Spike Duplicate)
MW	Molecular Weight
NA	Not Applicable or Not Available
NAD	Normalized Absolute Difference
NC	Not Calculated
NR	Not Requested/Not Reported
NS	Not Spiked
% D	Percent Difference
% REC	Percent Recovery
SOP	Standard Operating Procedure
ppbv	parts per billion by volume
ppm	parts per million
pptv	parts per trillion by volume
PQL	Practical Quantitation Limit
QA/QC	Quality Assurance/Quality Control
QL	Quantitation Limit
REAC	Response Engineering and Analytical Contract
RL	Reporting Limit
RPD	Relative Percent Difference
RSD	Relative Standard Deviation
SIM	Selected Ion Monitoring
Sur	Surrogate
TIC	Tentatively Identified Compound
TCLP	Toxicity Characteristic Leaching Procedure
VOC	Volatile Organic Compound
*	Value exceeds the acceptable QC limits.

m^3	cubic meter	g	gram	kg	kilogram	L	liter
µg	microgram	µL	microliter	mg	milligram	mL	milliliter
ng	nanogram	pg	picogram	pCi	picocurie	s	sigma

Data Validation Flags

J	Value is estimated	R	Value is unusable
J+	Value is estimated high (metals only)	U	Not detected
J-	Value is estimated low (metals only)	UJ	Not detected and RL is estimated

Rev. 02/05/08

Table 1.1 Result of the Analysis for VOC in Water
WA # 0-289 Highway 7 and Wooddale Avenue

Method SW-846 8260B

Sample Number	5/6/2008		P112-042808		W420-042808		P308-042808		P310-042808	
Sample Location	Method Blank									
Analyte	Result ug/L	RL ug/L	Result ug/L	RL ug/L	Result ug/L	RL ug/L	Result ug/L	RL ug/L	Result ug/L	RL ug/L
Acetone	U	5.00	U	5.00	U	100	U	5.00	U	5.00
Allyl chloride	U	5.00	U	5.00	U	100	U	5.00	U	5.00
Benzene	U	1.00	U	1.00	63.4	20.0	U	1.00	0.510 J	1.00
Bromobenzene	U	1.00	U	1.00	U	20.0	U	1.00	U	1.00
Bromochloromethane	U	1.00	U	1.00	U	20.0	U	1.00	U	1.00
Bromodichloromethane	U	1.00	U	1.00	U	20.0	U	1.00	U	1.00
Bromoform	U	1.00	U	1.00	U	20.0	U	1.00	U	1.00
Bromomethane	U	1.00	U	1.00	U	20.0	U	1.00	U	1.00
2-Butanone (MEK)	U	5.00	U	5.00	U	100	U	5.00	U	5.00
n-Butylbenzene	U	1.00	U	1.00	U	20.0	U	1.00	U	1.00
sec-Butylbenzene	U	1.00	U	1.00	U	20.0	U	1.00	U	1.00
Carbon tetrachloride	U	1.00	U	1.00	U	20.0	U	1.00	U	1.00
Chlorobenzene	U	1.00	U	1.00	U	20.0	U	1.00	U	1.00
Chloroethane	U	1.00	U	1.00	U	20.0	U	1.00	U	1.00
Chloroform	U	5.00	U	5.00	U	100	U	5.00	U	5.00
Chloromethane	U	1.00	0.710 J	1.00	U	20.0	U	1.00	U	1.00
2-Chlorotoluene	U	1.00	U	1.00	U	20.0	U	1.00	U	1.00
4-Chlorotoluene	U	1.00	U	1.00	U	20.0	U	1.00	U	1.00
1,2-Dibromo-3-chloropropane	U	5.00	U	5.00	U	100	U	5.00	U	5.00
Dibromochloromethane	U	1.00	U	1.00	U	20.0	U	1.00	U	1.00
1,2-Dibromoethane (EDB)	U	1.00	U	1.00	U	20.0	U	1.00	U	1.00
Dibromomethane	U	1.00	U	1.00	U	20.0	U	1.00	U	1.00
1,2-Dichlorobenzene	U	1.00	U	1.00	U	20.0	U	1.00	U	1.00
1,3-Dichlorobenzene	U	1.00	U	1.00	U	20.0	U	1.00	U	1.00
1,4-Dichlorobenzene	U	1.00	U	1.00	U	20.0	U	1.00	U	1.00
Dichlorodifluoromethane	U	1.00	U	1.00	U	20.0	U	1.00	U	1.00
1,1-Dichloroethane	U	1.00	U	1.00	U	20.0	U	1.00	U	1.00
1,2-Dichloroethane	U	1.00	U	1.00	U	20.0	U	1.00	U	1.00
1,1-Dichloroethene	U	1.00	U	1.00	U	20.0	U	1.00	0.741 J	1.00
cis-1,2-Dichloroethene	U	1.00	1.94	1.00	120	20.0	7.68	1.00	358	2.50
trans-1,2-Dichloroethene	U	1.00	U J	1.00	19.1 J	20.0	1.51 J	1.00	4.86 J	1.00
Dichlorofluoromethane	U	1.00	U	1.00	U	20.0	U	1.00	U	1.00
1,2-Dichloropropane	U	1.00	U	1.00	U	20.0	U	1.00	U	1.00
1,3-Dichloropropane	U	1.00	U	1.00	U	20.0	U	1.00	U	1.00
2,2-Dichloropropane	U	1.00	U	1.00	U	20.0	U	1.00	U	1.00
1,1-Dichloropropene	U	1.00	U	1.00	U	20.0	U	1.00	U	1.00
cis-1,3-Dichloropropene	U	1.00	U	1.00	U	20.0	U	1.00	U	1.00
trans-1,3-Dichloropropene	U	1.00	U	1.00	U	20.0	U	1.00	U	1.00
Diethyl ether (Ethyl ether)	U	1.00	U	1.00	U	20.0	U	1.00	U	1.00
Ethylbenzene	U	1.00	U	1.00	66.4	20.0	U	1.00	U	1.00
Hexachloro-1,3-butadiene	U	1.00	U	1.00	U	20.0	U	1.00	U	1.00
Isopropylbenzene (Cumene)	U	1.00	U	1.00	U	20.0	U	1.00	U	1.00
p-Isopropyltoluene	U	1.00	U	1.00	U	20.0	U	1.00	U	1.00
Methylene Chloride	U	1.00	U	1.00	U	20.0	U	1.00	U	1.00
4-Methyl-2-pentanone (MIBK)	U	5.00	U	5.00	U	100	U	5.00	U	5.00
Methyl-tert-butyl ether	U	1.00	U	1.00	U	20.0	U	1.00	U	1.00
Naphthalene	U	5.00	U	5.00	1530 J	100	1.53 J	5.00	1.42 J	5.00
o-Xylene	U	1.00	U	1.00	35.4	20.0	U	1.00	U	1.00
n-Propylbenzene	U	1.00	U	1.00	U	20.0	U	1.00	U	1.00
Styrene	U	1.00	U	1.00	U	20.0	U	1.00	U	1.00
tert-Butylbenzene	U	1.00	U	1.00	U	20.0	U	1.00	U	1.00
1,1,1,2-Tetrachloroethane	U	1.00	U	1.00	U	20.0	U	1.00	U	1.00
1,1,2,2-Tetrachloroethane	U	1.00	U	1.00	U	20.0	U	1.00	U	1.00
Tetrachloroethene	U	1.00	U	1.00	U	20.0	4.59	1.00	55.9	1.00
Tetrahydrofuran	U	5.00	U	5.00	U	100	U	5.00	U	5.00
Toluene	U	1.00	U	1.00	U	20.0	U	1.00	U	1.00
1,2,3-Trichlorobenzene	U	1.00	U	1.00	U	20.0	U	1.00	U	1.00
1,2,4-Trichlorobenzene	U	1.00	U	1.00	U	20.0	U	1.00	U	1.00
1,1,1-Trichloroethane	U	1.00	U	1.00	U	20.0	U	1.00	U	1.00
1,1,2-Trichloroethane	U	1.00	U	1.00	U	20.0	U	1.00	U	1.00
Trichloroethene	U	1.00	U	1.00	U	20.0	9.22	1.00	55.7	1.00
Trichlorofluoromethane	U	1.00	U	1.00	U	20.0	U	1.00	U	1.00
1,2,3-Trichloropropane	U	1.00	U	1.00	U	20.0	U	1.00	U	1.00
1,1,2-Trichlorotrifluoroethane	U	5.00	U	5.00	U	100	U	5.00	U	5.00
1,2,4-Trimethylbenzene	U	1.00	U	1.00	25.9	20.0	U	1.00	U	1.00
1,3,5-Trimethylbenzene	U	1.00	U	1.00	U	20.0	U	1.00	U	1.00
Vinyl chloride	U	1.00	2.07	1.00	46.9	20.0	U	1.00	59.8	1.00
m&p-Xylene	U	2.00	U	2.00	65.8	40.0	U	2.00	U	2.00

Table 1.1 (cont) Result of the Analysis for VOC in Water
WA # 0-289 Highway 7 and Wooddale Avenue

Method SW-846 8260B

Sample Number	W427-042808		W439-042808		P307-042808		W427D-042808		W136-042908	
Sample Location										
Analyte	Result ug/L	RL ug/L	Result ug/L	RL ug/L	Result ug/L	RL ug/L	Result ug/L	RL ug/L	Result ug/L	RL ug/L
Acetone	U	5.00	U	50.0	U	5.00	U	5.00	U	5.00
Allyl chloride	U	5.00	U	50.0	U	5.00	U	5.00	U	5.00
Benzene	U	1.00	74.4	10.0	22.6	1.00	U	1.00	U	1.00
Bromobenzene	U	1.00	U	10.0	U	1.00	U	1.00	U	1.00
Bromochloromethane	U	1.00	U	10.0	U	1.00	U	1.00	U	1.00
Bromodichloromethane	U	1.00	U	10.0	U	1.00	U	1.00	U	1.00
Bromoform	U	1.00	U	10.0	U	1.00	U	1.00	U	1.00
Bromomethane	U	1.00	U	10.0	U	1.00	U	1.00	U	1.00
2-Butanone (MEK)	U	5.00	U	50.0	U	5.00	U	5.00	U	5.00
n-Butylbenzene	U	1.00	U	10.0	U	1.00	U	1.00	U	1.00
sec-Butylbenzene	U	1.00	U	10.0	U	1.00	U	1.00	U	1.00
Carbon tetrachloride	U	1.00	U	10.0	U	1.00	U	1.00	U	1.00
Chlorobenzene	U	1.00	U	10.0	U	1.00	U	1.00	U	1.00
Chloroethane	U	1.00	U	10.0	U	1.00	U	1.00	U	1.00
Chloroform	U	5.00	U	50.0	U	5.00	U	5.00	U	5.00
Chloromethane	U	1.00	U	10.0	U	1.00	U	1.00	U	1.00
2-Chlorotoluene	U	1.00	U	10.0	U	1.00	U	1.00	U	1.00
4-Chlorotoluene	U	1.00	U	10.0	U	1.00	U	1.00	U	1.00
1,2-Dibromo-3-chloropropane	U	5.00	U	50.0	U	5.00	U	5.00	U	5.00
Dibromochloromethane	U	1.00	U	10.0	U	1.00	U	1.00	U	1.00
1,2-Dibromoethane (EDB)	U	1.00	U	10.0	U	1.00	U	1.00	U	1.00
Dibromomethane	U	1.00	U	10.0	U	1.00	U	1.00	U	1.00
1,2-Dichlorobenzene	U	1.00	U	10.0	U	1.00	U	1.00	U	1.00
1,3-Dichlorobenzene	U	1.00	U	10.0	U	1.00	U	1.00	U	1.00
1,4-Dichlorobenzene	U	1.00	U	10.0	U	1.00	U	1.00	U	1.00
Dichlorodifluoromethane	U	1.00	U	10.0	U	1.00	U	1.00	U	1.00
1,1-Dichloroethane	U	1.00	U	10.0	U	1.00	U	1.00	U	1.00
1,2-Dichloroethane	U	1.00	U	10.0	U	1.00	U	1.00	U	1.00
1,1-Dichloroethene	U	1.00	U	10.0	U	1.00	U	1.00	U	1.00
cis-1,2-Dichloroethene	1.45	1.00	U	10.0	163	1.00	1.29	1.00	1.12	1.00
trans-1,2-Dichloroethene	U J	1.00	U J	10.0	171 J	1.00	U J	1.00	U J	1.00
Dichlorofluoromethane	U	1.00	U	10.0	U	1.00	U	1.00	U	1.00
1,2-Dichloropropane	U	1.00	U	10.0	U	1.00	U	1.00	U	1.00
1,3-Dichloropropane	U	1.00	U	10.0	U	1.00	U	1.00	U	1.00
2,2-Dichloropropane	U	1.00	U	10.0	U	1.00	U	1.00	U	1.00
1,1-Dichloropropene	U	1.00	U	10.0	U	1.00	U	1.00	U	1.00
cis-1,3-Dichloropropene	U	1.00	U	10.0	U	1.00	U	1.00	U	1.00
trans-1,3-Dichloropropene	U	1.00	U	10.0	U	1.00	U	1.00	U	1.00
Diethyl ether (Ethyl ether)	U	1.00	U	10.0	U	1.00	U	1.00	U	1.00
Ethylbenzene	U	1.00	142	10.0	6.69	1.00	U	1.00	U	1.00
Hexachloro-1,3-butadiene	U	1.00	U	10.0	U	1.00	U	1.00	U	1.00
Isopropylbenzene (Cumene)	U	1.00	10.4	10.0	U	1.00	U	1.00	U	1.00
p-Isopropyltoluene	U	1.00	U	10.0	U	1.00	U	1.00	U	1.00
Methylene Chloride	U	1.00	U	10.0	U	1.00	U	1.00	U	1.00
4-Methyl-2-pentanone (MIBK)	U	5.00	U	50.0	U	5.00	U	5.00	U	5.00
Methyl-tert-butyl ether	U	1.00	U	10.0	U	1.00	U	1.00	U	1.00
Naphthalene	U	5.00	1010 J	50.0	1.73 J	5.00	U	5.00	U	5.00
o-Xylene	U	1.00	107	10.0	U	1.00	U	1.00	U	1.00
n-Propylbenzene	U	1.00	U	10.0	U	1.00	U	1.00	U	1.00
Styrene	U	1.00	U	10.0	U	1.00	U	1.00	U	1.00
tert-Butylbenzene	U	1.00	U	10.0	U	1.00	U	1.00	U	1.00
1,1,1,2-Tetrachloroethane	U	1.00	U	10.0	U	1.00	U	1.00	U	1.00
1,1,2,2-Tetrachloroethane	U	1.00	U	10.0	U	1.00	U	1.00	U	1.00
Tetrachloroethene	1.07	1.00	U	10.0	51.5	1.00	1.09	1.00	0.615 J	1.00
Tetrahydrofuran	U	5.00	U	50.0	U	5.00	U	5.00	U	5.00
Toluene	U	1.00	7.38 J	10.0	U	1.00	U	1.00	U	1.00
1,2,3-Trichlorobenzene	U	1.00	U	10.0	U	1.00	U	1.00	U	1.00
1,2,4-Trichlorobenzene	U	1.00	U	10.0	U	1.00	U	1.00	U	1.00
1,1,1-Trichloroethane	U	1.00	U	10.0	U	1.00	U	1.00	U	1.00
1,1,2-Trichloroethane	U	1.00	U	10.0	U	1.00	U	1.00	U	1.00
Trichloroethene	0.806 J	1.00	U	10.0	62.7	1.00	0.818 J	1.00	0.599 J	1.00
Trichlorofluoromethane	U	1.00	U	10.0	U	1.00	U	1.00	U	1.00
1,2,3-Trichloropropane	U	1.00	U	10.0	U	1.00	U	1.00	U	1.00
1,1,2-Trichlorotrifluoroethane	U	5.00	U	50.0	U	5.00	U	5.00	U	5.00
1,2,4-Trimethylbenzene	U	1.00	76.9	10.0	U	1.00	U	1.00	U	1.00
1,3,5-Trimethylbenzene	U	1.00	U	10.0	U	1.00	U	1.00	U	1.00
Vinyl chloride	U	1.00	U	10.0	51.7	1.00	U	1.00	U	1.00
m&p-Xylene	U	2.00	136	20.0	U	2.00	U	2.00	U	2.00

Table 1.1 (cont) Result of the Analysis for VOC in Water
WA # 0-289 Highway 7 and Wooddale Avenue

Method SW-846 8260B

Sample Number	W128-042908		P109-042908		W422-042908		W421-042908		Trip Blank	
Sample Location										
Analyte	Result ug/L	RL ug/L	Result ug/L	RL ug/L	Result ug/L	RL ug/L	Result ug/L	RL ug/L	Result ug/L	RL ug/L
Acetone	U	5.00	U	5.00	U	5.00	U	50.0	U	5.00
Allyl chloride	U	5.00	U	5.00	U	5.00	U	50.0	U	5.00
Benzene	U	1.00	0.623 J	1.00	3.34	1.00	25.8	10.0	U	1.00
Bromobenzene	U	1.00	U	1.00	U	1.00	U	10.0	U	1.00
Bromochloromethane	U	1.00	U	1.00	U	1.00	U	10.0	U	1.00
Bromodichloromethane	U	1.00	U	1.00	U	1.00	U	10.0	U	1.00
Bromoform	U	1.00	U	1.00	U	1.00	U	10.0	U	1.00
Bromomethane	U	1.00	U	1.00	U	1.00	U	10.0	U	1.00
2-Butanone (MEK)	U	5.00	U	5.00	U	5.00	U	50.0	U	5.00
n-Butylbenzene	U	1.00	U	1.00	U	1.00	U	10.0	U	1.00
sec-Butylbenzene	U	1.00	U	1.00	U	1.00	U	10.0	U	1.00
Carbon tetrachloride	U	1.00	U	1.00	U	1.00	U	10.0	U	1.00
Chlorobenzene	U	1.00	U	1.00	U	1.00	U	10.0	U	1.00
Chloroethane	U	1.00	U	1.00	U	1.00	U	10.0	U	1.00
Chloroform	U	5.00	U	5.00	U	5.00	U	50.0	U	5.00
Chloromethane	U	1.00	U	1.00	U	1.00	U	10.0	U	1.00
2-Chlorotoluene	U	1.00	U	1.00	U	1.00	U	10.0	U	1.00
4-Chlorotoluene	U	1.00	U	1.00	U	1.00	U	10.0	U	1.00
1,2-Dibromo-3-chloropropane	U	5.00	U	5.00	U	5.00	U	50.0	U	5.00
Dibromochloromethane	U	1.00	U	1.00	U	1.00	U	10.0	U	1.00
1,2-Dibromoethane (EDB)	U	1.00	U	1.00	U	1.00	U	10.0	U	1.00
Dibromomethane	U	1.00	U	1.00	U	1.00	U	10.0	U	1.00
1,2-Dichlorobenzene	U	1.00	U	1.00	U	1.00	U	10.0	U	1.00
1,3-Dichlorobenzene	U	1.00	U	1.00	U	1.00	U	10.0	U	1.00
1,4-Dichlorobenzene	U	1.00	U	1.00	U	1.00	U	10.0	U	1.00
Dichlorodifluoromethane	U	1.00	U	1.00	U	1.00	U	10.0	U	1.00
1,1-Dichloroethane	U	1.00	U	1.00	U	1.00	U	10.0	U	1.00
1,2-Dichloroethane	U	1.00	U	1.00	U	1.00	U	10.0	U	1.00
1,1-Dichloroethene	U	1.00	U	1.00	U	1.00	U	10.0	U	1.00
cis-1,2-Dichloroethene	9.43	1.00	U	1.00	3.69	1.00	1720	10.0	U	1.00
trans-1,2-Dichloroethene	U J	1.00	U J	1.00	1.22 J	1.00	151 J	10.0	U J	1.00
Dichlorofluoromethane	0.945 J	1.00	U	1.00	U	1.00	U	10.0	U	1.00
1,2-Dichloropropane	U	1.00	U	1.00	U	1.00	U	10.0	U	1.00
1,3-Dichloropropane	U	1.00	U	1.00	U	1.00	U	10.0	U	1.00
2,2-Dichloropropane	U	1.00	U	1.00	U	1.00	U	10.0	U	1.00
1,1-Dichloropropene	U	1.00	U	1.00	U	1.00	U	10.0	U	1.00
cis-1,3-Dichloropropene	U	1.00	U	1.00	U	1.00	U	10.0	U	1.00
trans-1,3-Dichloropropene	U	1.00	U	1.00	U	1.00	U	10.0	U	1.00
Diethyl ether (Ethyl ether)	U	1.00	U	1.00	U	1.00	U	10.0	U	1.00
Ethylbenzene	U	1.00	U	1.00	3.75	1.00	31.2	10.0	U	1.00
Hexachloro-1,3-butadiene	U	1.00	U	1.00	U	1.00	U	10.0	U	1.00
Isopropylbenzene (Cumene)	U	1.00	U	1.00	U	1.00	U	10.0	U	1.00
p-Isopropyltoluene	U	1.00	U	1.00	U	1.00	U	10.0	U	1.00
Methylene Chloride	U	1.00	U	1.00	U	1.00	U	10.0	U	1.00
4-Methyl-2-pentanone (MIBK)	U	5.00	U	5.00	U	5.00	U	50.0	U	5.00
Methyl-tert-butyl ether	U	1.00	U	1.00	U	1.00	U	10.0	U	1.00
Naphthalene	U	5.00	U	5.00	U	5.00	133 J	50.0	U	5.00
o-Xylene	U	1.00	U	1.00	0.993 J	1.00	16.4	10.0	U	1.00
n-Propylbenzene	U	1.00	U	1.00	U	1.00	U	10.0	U	1.00
Styrene	U	1.00	U	1.00	U	1.00	U	10.0	U	1.00
tert-Butylbenzene	U	1.00	U	1.00	U	1.00	U	10.0	U	1.00
1,1,1,2-Tetrachloroethane	U	1.00	U	1.00	U	1.00	U	10.0	U	1.00
1,1,2,2-Tetrachloroethane	U	1.00	U	1.00	U	1.00	U	10.0	U	1.00
Tetrachloroethene	U	1.00	U	1.00	U	1.00	U	10.0	U	1.00
Tetrahydrofuran	U	5.00	U	5.00	U	5.00	U	50.0	U	5.00
Toluene	U	1.00	U	1.00	U	1.00	U	10.0	U	1.00
1,2,3-Trichlorobenzene	U	1.00	U	1.00	U	1.00	U	10.0	U	1.00
1,2,4-Trichlorobenzene	U	1.00	U	1.00	U	1.00	U	10.0	U	1.00
1,1,1-Trichloroethane	U	1.00	U	1.00	U	1.00	U	10.0	U	1.00
1,1,2-Trichloroethane	U	1.00	U	1.00	U	1.00	U	10.0	U	1.00
Trichloroethene	0.984 J	1.00	U	1.00	3.19	1.00	U	10.0	U	1.00
Trichlorofluoromethane	U	1.00	U	1.00	U	1.00	U	10.0	U	1.00
1,2,3-Trichloropropane	U	1.00	U	1.00	U	1.00	U	10.0	U	1.00
1,1,2-Trichlorotrifluoroethane	U	5.00	U	5.00	U	5.00	U	50.0	U	5.00
1,2,4-Trimethylbenzene	U	1.00	U	1.00	U	1.00	U	10.0	U	1.00
1,3,5-Trimethylbenzene	U	1.00	U	1.00	U	1.00	U	10.0	U	1.00
Vinyl chloride	U	1.00	1.07	1.00	U	1.00	322	10.0	U	1.00
m&p-Xylene	U	2.00	U	2.00	U	2.00	U	20.0	U	2.00

Table 1.1 (cont) Result of the Analysis for VOC in Water
WA # 0-289 Highway 7 and Wooddale Avenue

Method SW-846 8260B

Sample Number	5/7/2008		W117-042808		P312-042908		P309-042908		5/14/2008	
Sample Location	Method Blank								Method Blank	
Analyte	Result ug/L	RL ug/L	Result ug/L	RL ug/L	Result ug/L	RL ug/L	Result ug/L	RL ug/L	Result ug/L	RL ug/L
Acetone	U	5.00	U	5.00	U	25.0	U	25.0	U	5.00
Allyl chloride	U	5.00	U	5.00	U	25.0	U	25.0	U	5.00
Benzene	U	1.00	0.623 J	1.00	7.05	5.00	U	5.00	U	1.00
Bromobenzene	U	1.00	U	1.00	U	5.00	U	5.00	U	1.00
Bromochloromethane	U	1.00	U	1.00	U	5.00	U	5.00	U	1.00
Bromodichloromethane	U	1.00	U	1.00	U	5.00	U	5.00	U	1.00
Bromoform	U	1.00	U	1.00	U	5.00	U	5.00	U	1.00
Bromomethane	U	1.00	U	1.00	U	5.00	U	5.00	U	1.00
2-Butanone (MEK)	U	5.00	U	5.00	U	25.0	U	25.0	U	5.00
n-Butylbenzene	U	1.00	U	1.00	U	5.00	U	5.00	U	1.00
sec-Butylbenzene	U	1.00	U	1.00	U	5.00	U	5.00	U	1.00
Carbon tetrachloride	U	1.00	U	1.00	U	5.00	U	5.00	U	1.00
Chlorobenzene	U	1.00	U	1.00	U	5.00	U	5.00	U	1.00
Chloroethane	U	1.00	U	1.00	U	5.00	U	5.00	U	1.00
Chloroform	U	5.00	U	5.00	U	25.0	U	25.0	U	5.00
Chloromethane	U	1.00	U	1.00	U	5.00	U	5.00	U	1.00
2-Chlorotoluene	U	1.00	U	1.00	U	5.00	U	5.00	U	1.00
4-Chlorotoluene	U	1.00	U	1.00	U	5.00	U	5.00	U	1.00
1,2-Dibromo-3-chloropropane	U	5.00	U	5.00	U	25.0	U	25.0	U	5.00
Dibromochloromethane	U	1.00	U	1.00	U	5.00	U	5.00	U	1.00
1,2-Dibromoethane (EDB)	U	1.00	U	1.00	U	5.00	U	5.00	U	1.00
Dibromomethane	U	1.00	U	1.00	U	5.00	U	5.00	U	1.00
1,2-Dichlorobenzene	U	1.00	U	1.00	U	5.00	U	5.00	U	1.00
1,3-Dichlorobenzene	U	1.00	U	1.00	U	5.00	U	5.00	U	1.00
1,4-Dichlorobenzene	U	1.00	U	1.00	U	5.00	U	5.00	U	1.00
Dichlorodifluoromethane	U	1.00	U	1.00	U	5.00	U	5.00	U	1.00
1,1-Dichloroethane	U	1.00	U	1.00	U	5.00	U	5.00	U	1.00
1,2-Dichloroethane	U	1.00	U	1.00	U	5.00	U	5.00	U	1.00
1,1-Dichloroethene	U	1.00	U	1.00	3.72 J	5.00	U	5.00	U	1.00
cis-1,2-Dichloroethene	U	1.00	U	1.00	810	5.00	207	5.00	U	1.00
trans-1,2-Dichloroethene	U	1.00	1.51 J	1.00	32.0 J	J	5.22 J	5.00	U	1.00
Dichlorofluoromethane	U	1.00	U	1.00	U	5.00	U	5.00	U	1.00
1,2-Dichloropropane	U	1.00	U	1.00	U	5.00	U	5.00	U	1.00
1,3-Dichloropropane	U	1.00	U	1.00	U	5.00	U	5.00	U	1.00
2,2-Dichloropropane	U	1.00	U	1.00	U	5.00	U	5.00	U	1.00
1,1-Dichloropropene	U	1.00	U	1.00	U	5.00	U	5.00	U	1.00
cis-1,3-Dichloropropene	U	1.00	U	1.00	U	5.00	U	5.00	U	1.00
trans-1,3-Dichloropropene	U	1.00	U	1.00	U	5.00	U	5.00	U	1.00
Diethyl ether (Ethyl ether)	U	1.00	U	1.00	U	5.00	U	5.00	U	1.00
Ethylbenzene	U	1.00	U	1.00	U	5.00	U	5.00	U	1.00
Hexachloro-1,3-butadiene	U	1.00	U	1.00	U	5.00	U	5.00	U	1.00
Isopropylbenzene (Cumene)	U	1.00	U	1.00	U	5.00	U	5.00	U	1.00
p-Isopropyltoluene	U	1.00	U	1.00	U	5.00	U	5.00	U	1.00
Methylene Chloride	U	1.00	U	1.00	U	5.00	U	5.00	U	1.00
4-Methyl-2-pentanone (MIBK)	U	5.00	U	5.00	U	25.0	U	25.0	U	5.00
Methyl-tert-butyl ether	U	1.00	U	1.00	U	5.00	U	5.00	U	1.00
Naphthalene	U	5.00	U	5.00	U	25.0	4.03 J	25.0	U	5.00
o-Xylene	U	1.00	U	1.00	U	5.00	U	5.00	U	1.00
n-Propylbenzene	U	1.00	U	1.00	U	5.00	U	5.00	U	1.00
Styrene	U	1.00	U	1.00	U	5.00	U	5.00	U	1.00
tert-Butylbenzene	U	1.00	U	1.00	U	5.00	U	5.00	U	1.00
1,1,1,2-Tetrachloroethane	U	1.00	U	1.00	U	5.00	U	5.00	U	1.00
1,1,2,2-Tetrachloroethane	U	1.00	U	1.00	U	5.00	U	5.00	U	1.00
Tetrachloroethene	U	1.00	U	1.00	U	5.00	789	5.00	U	1.00
Tetrahydrofuran	U	5.00	U	5.00	U	25.0	U	25.0	U	5.00
Toluene	U	1.00	U	1.00	U	5.00	U	5.00	U	1.00
1,2,3-Trichlorobenzene	U	1.00	U	1.00	U	5.00	U	5.00	U	1.00
1,2,4-Trichlorobenzene	U	1.00	U	1.00	U	5.00	U	5.00	U	1.00
1,1,1-Trichloroethane	U	1.00	U	1.00	U	5.00	U	5.00	U	1.00
1,1,2-Trichloroethane	U	1.00	U	1.00	U	5.00	U	5.00	U	1.00
Trichloroethene	U	1.00	U	1.00	U	5.00	286	5.00	U	1.00
Trichlorofluoromethane	U	1.00	U	1.00	U	5.00	U	5.00	U	1.00
1,2,3-Trichloropropane	U	1.00	U	1.00	U	5.00	U	5.00	U	1.00
1,1,2-Trichlorotrifluoroethane	U	5.00	U	5.00	U	25.0	U	25.0	U	5.00
1,2,4-Trimethylbenzene	U	1.00	U	1.00	U	5.00	U	5.00	U	1.00
1,3,5-Trimethylbenzene	U	1.00	U	1.00	U	5.00	U	5.00	U	1.00
Vinyl chloride	U	1.00	U	1.00	153	5.00	4.55 J	5.00	U	1.00
m&p-Xylene	U	2.00	U	2.00	U	10.0	U	10.0	U	2.00

Table 1.1 (cont) Result of the Analysis for VOC in Water
WA # 0-289 Highway 7 and Wooddale Avenue

Method SW-846 8260B

Sample Number	W428-050708		W434-050708		W131-050708		W431-050708	
Sample Location								
Analyte	Result ug/L	RL ug/L	Result ug/L	RL ug/L	Result ug/L	RL ug/L	Result ug/L	RL ug/L
Acetone	U	5.00	U	25.0	8.57	5.00	9.94	5.00
Allyl chloride	U	5.00	U	25.0	U	5.00	U	5.00
Benzene	U	1.00	13.2	5.00	U	1.00	4.36	1.00
Bromobenzene	U	1.00	U	5.00	U	1.00	U	1.00
Bromochloromethane	U	1.00	U	5.00	U	1.00	U	1.00
Bromodichloromethane	U	1.00	U	5.00	U	1.00	U	1.00
Bromoform	U	1.00	U	5.00	U	1.00	U	1.00
Bromomethane	U	1.00	U	5.00	U	1.00	U	1.00
2-Butanone (MEK)	U	5.00	U	25.0	U	5.00	U	5.00
n-Butylbenzene	U	1.00	U	5.00	U	1.00	U	1.00
sec-Butylbenzene	U	1.00	U	5.00	U	1.00	U	1.00
Carbon tetrachloride	U	1.00	U	5.00	U	1.00	U	1.00
Chlorobenzene	U	1.00	U	5.00	U	1.00	U	1.00
Chloroethane	U	1.00	U	5.00	U	1.00	U	1.00
Chloroform	U	5.00	U	25.0	U	5.00	U	5.00
Chloromethane	U	1.00	U	5.00	U	1.00	U	1.00
2-Chlorotoluene	U	1.00	U	5.00	U	1.00	U	1.00
4-Chlorotoluene	U	1.00	U	5.00	U	1.00	U	1.00
1,2-Dibromo-3-chloropropane	U	5.00	U	25.0	U	5.00	U	5.00
Dibromochloromethane	U	1.00	U	5.00	U	1.00	U	1.00
1,2-Dibromoethane (EDB)	U	1.00	U	5.00	U	1.00	U	1.00
Dibromomethane	U	1.00	U	5.00	U	1.00	U	1.00
1,2-Dichlorobenzene	U	1.00	U	5.00	U	1.00	U	1.00
1,3-Dichlorobenzene	U	1.00	U	5.00	U	1.00	U	1.00
1,4-Dichlorobenzene	U	1.00	U	5.00	U	1.00	U	1.00
Dichlorodifluoromethane	U	1.00	U	5.00	U	1.00	U	1.00
1,1-Dichloroethane	U	1.00	U	5.00	U	1.00	U	1.00
1,2-Dichloroethane	U	1.00	U	5.00	U	1.00	U	1.00
1,1-Dichloroethene	U	1.00	U	5.00	U	1.00	1.12	1.00
cis-1,2-Dichloroethene	U	1.00	696	5.00	U	1.00	288	1.00
trans-1,2-Dichloroethene	U	1.00	33.4	5.00	U	1.00	50.9	1.00
Dichlorofluoromethane	U	1.00	U	5.00	U	1.00	3.19	1.00
1,2-Dichloropropane	U	1.00	U	5.00	U	1.00	U	1.00
1,3-Dichloropropane	U	1.00	U	5.00	U	1.00	U	1.00
2,2-Dichloropropane	U	1.00	U	5.00	U	1.00	U	1.00
1,1-Dichloropropane	U	1.00	U	5.00	U	1.00	U	1.00
cis-1,3-Dichloropropene	U	1.00	U	5.00	U	1.00	U	1.00
trans-1,3-Dichloropropene	U	1.00	U	5.00	U	1.00	U	1.00
Diethyl ether (Ethyl ether)	U	1.00	U	5.00	U	1.00	U	1.00
Ethylbenzene	U	1.00	U	5.00	U	1.00	U	1.00
Hexachloro-1,3-butadiene	U	1.00	U	5.00	U	1.00	U	1.00
Isopropylbenzene (Cumene)	U	1.00	U	5.00	U	1.00	U	1.00
p-Isopropyltoluene	U	1.00	U	5.00	U	1.00	U	1.00
Methylene Chloride	U	1.00	U	5.00	U	1.00	U	1.00
4-Methyl-2-pentanone (MIBK)	U	5.00	U	25.0	U	5.00	U	5.00
Methyl-tert-butyl ether	U	1.00	U	5.00	U	1.00	U	1.00
Naphthalene	U	5.00	U	25.0	U	5.00	U	5.00
o-Xylene	U	1.00	U	5.00	U	1.00	U	1.00
n-Propylbenzene	U	1.00	U	5.00	U	1.00	U	1.00
Styrene	U	1.00	U	5.00	U	1.00	U	1.00
tert-Butylbenzene	U	1.00	U	5.00	U	1.00	U	1.00
1,1,1,2-Tetrachloroethane	U	1.00	U	5.00	U	1.00	U	1.00
1,1,2,2-Tetrachloroethane	U	1.00	U	5.00	U	1.00	U	1.00
Tetrachloroethene	U	1.00	4.47 J	5.00	U	1.00	U	1.00
Tetrahydrofuran	U	5.00	U	25.0	U	5.00	U	5.00
Toluene	U	1.00	U	5.00	U	1.00	U	1.00
1,2,3-Trichlorobenzene	U	1.00	U	5.00	U	1.00	U	1.00
1,2,4-Trichlorobenzene	U	1.00	U	5.00	U	1.00	U	1.00
1,1,1-Trichloroethane	U	1.00	U	5.00	U	1.00	U	1.00
1,1,2-Trichloroethane	U	1.00	U	5.00	U	1.00	U	1.00
Trichloroethene	U	1.00	8.67	5.00	U	1.00	2.74	1.00
Trichlorofluoromethane	U	1.00	U	5.00	U	1.00	U	1.00
1,2,3-Trichloropropane	U	1.00	U	5.00	U	1.00	U	1.00
1,1,2-Trichlorotrifluoroethane	U	5.00	U	25.0	U	5.00	U	5.00
1,2,4-Trimethylbenzene	U	1.00	U	5.00	U	1.00	U	1.00
1,3,5-Trimethylbenzene	U	1.00	U	5.00	U	1.00	U	1.00
Vinyl chloride	U	1.00	85.8	5.00	U	1.00	6.96	1.00
m&p-Xylene	U	2.00	U	10.0	U	2.00	U	2.00

Table 1.1 (cont) Result of the Analysis for VOC in Water
WA # 0-289 Highway 7 and Wooddale Avenue

Method SW-846 8260B

Sample Number	5/16/2008		W437-051208		W20-051208		W27-051208		W426-051208	
Sample Location	Method Blank									
Analyte	Result ug/L	RL ug/L	Result ug/L	RL ug/L	Result ug/L	RL ug/L	Result ug/L	RL ug/L	Result ug/L	RL ug/L
Acetone	U	5.00	U	125	U	5.00	U	5.00	U	5.00
Allyl chloride	U	5.00	U	125	U	5.00	U	5.00	U	5.00
Benzene	U	1.00	U	25.0	U	1.00	62.5	1.00	U	1.00
Bromobenzene	U	1.00	U	25.0	U	1.00	U	1.00	U	1.00
Bromochloromethane	U	1.00	U	25.0	U	1.00	U	1.00	U	1.00
Bromodichloromethane	U	1.00	U	25.0	U	1.00	U	1.00	U	1.00
Bromoform	U	1.00	U	25.0	U	1.00	U	1.00	U	1.00
Bromomethane	U	1.00	U	25.0	U	1.00	U	1.00	U	1.00
2-Butanone (MEK)	U	5.00	U	125	U	5.00	U	5.00	U	5.00
n-Butylbenzene	U	1.00	U	25.0	U	1.00	U	1.00	U	1.00
sec-Butylbenzene	U	1.00	U	25.0	U	1.00	U	1.00	U	1.00
Carbon tetrachloride	U	1.00	U	25.0	U	1.00	U	1.00	U	1.00
Chlorobenzene	U	1.00	U	25.0	U	1.00	U	1.00	U	1.00
Chloroethane	U	1.00	U	25.0	U	1.00	U	1.00	U	1.00
Chloroform	U	5.00	U	125	U	5.00	U	5.00	U	5.00
Chloromethane	U	1.00	U	25.0	U	1.00	0.267 J	1.00	U	1.00
2-Chlorotoluene	U	1.00	U	25.0	U	1.00	U	1.00	U	1.00
4-Chlorotoluene	U	1.00	U	25.0	U	1.00	U	1.00	U	1.00
1,2-Dibromo-3-chloropropane	U	5.00	U	125	U	5.00	U	5.00	U	5.00
Dibromochloromethane	U	1.00	U	25.0	U	1.00	U	1.00	U	1.00
1,2-Dibromoethane (EDB)	U	1.00	U	25.0	U	1.00	U	1.00	U	1.00
Dibromomethane	U	1.00	U	25.0	U	1.00	U	1.00	U	1.00
1,2-Dichlorobenzene	U	1.00	U	25.0	U	1.00	U	1.00	U	1.00
1,3-Dichlorobenzene	U	1.00	U	25.0	U	1.00	U	1.00	U	1.00
1,4-Dichlorobenzene	U	1.00	U	25.0	U	1.00	U	1.00	U	1.00
Dichlorodifluoromethane	U	1.00	U	25.0	U	1.00	U	1.00	U	1.00
1,1-Dichloroethane	U	1.00	U	25.0	U	1.00	U	1.00	U	1.00
1,2-Dichloroethane	U	1.00	U	25.0	U	1.00	U	1.00	U	1.00
1,1-Dichloroethene	U	1.00	U	25.0	U	1.00	U	1.00	U	1.00
cis-1,2-Dichloroethene	U	1.00	26.8	25.0	1.37	1.00	U	1.00	U	1.00
trans-1,2-Dichloroethene	U	1.00	U	25.0	U	1.00	U	1.00	U	1.00
Dichlorofluoromethane	U	1.00	U	25.0	U	1.00	U	1.00	U	1.00
1,2-Dichloropropane	U	1.00	U	25.0	U	1.00	U	1.00	U	1.00
1,3-Dichloropropane	U	1.00	U	25.0	U	1.00	U	1.00	U	1.00
2,2-Dichloropropane	U	1.00	U	25.0	U	1.00	U	1.00	U	1.00
1,1-Dichloropropene	U	1.00	U	25.0	U	1.00	U	1.00	U	1.00
cis-1,3-Dichloropropene	U	1.00	U	25.0	U	1.00	U	1.00	U	1.00
trans-1,3-Dichloropropene	U	1.00	U	25.0	U	1.00	U	1.00	U	1.00
Diethyl ether (Ethyl ether)	U	1.00	U	25.0	U	1.00	U	1.00	U	1.00
Ethylbenzene	U	1.00	U	25.0	U	1.00	6.51	1.00	3.88	1.00
Hexachloro-1,3-butadiene	U	1.00	U	25.0	U	1.00	U	1.00	U	1.00
Isopropylbenzene (Cumene)	U	1.00	U	25.0	U	1.00	1.92	1.00	1.11	1.00
p-Isopropyltoluene	U	1.00	U	25.0	U	1.00	U	1.00	U	1.00
Methylene Chloride	U	1.00	U	25.0	U	1.00	U	1.00	U	1.00
4-Methyl-2-pentanone (MIBK)	U	5.00	U	125	U	5.00	U	5.00	U	5.00
Methyl-tert-butyl ether	U	1.00	U	25.0	U	1.00	U	1.00	U	1.00
Naphthalene	U	5.00	1430	125	U	5.00	1.03 J	5.00	1.44 J	5.00
o-Xylene	U	1.00	U	25.0	U	1.00	U	1.00	1.92	1.00
n-Propylbenzene	U	1.00	U	25.0	U	1.00	U	1.00	U	1.00
Styrene	U	1.00	U	25.0	U	1.00	U	1.00	U	1.00
tert-Butylbenzene	U	1.00	U	25.0	U	1.00	U	1.00	U	1.00
1,1,1,2-Tetrachloroethane	U	1.00	U	25.0	U	1.00	U	1.00	U	1.00
1,1,2,2-Tetrachloroethane	U	1.00	U	25.0	U	1.00	U	1.00	U	1.00
Tetrachloroethene	U	1.00	5290	25.0	0.517 J	1.00	U	1.00	U	1.00
Tetrahydrofuran	U	5.00	U	125	U	5.00	U	5.00	U	5.00
Toluene	U	1.00	U	25.0	U	1.00	U	1.00	U	1.00
1,2,3-Trichlorobenzene	U	1.00	U	25.0	U	1.00	U	1.00	U	1.00
1,2,4-Trichlorobenzene	U	1.00	U	25.0	U	1.00	U	1.00	U	1.00
1,1,1-Trichloroethane	U	1.00	U	25.0	U	1.00	U	1.00	U	1.00
1,1,2-Trichloroethane	U	1.00	U	25.0	U	1.00	U	1.00	U	1.00
Trichloroethene	U	1.00	2760	25.0	3.24	1.00	U	1.00	U	1.00
Trichlorofluoromethane	U	1.00	U	25.0	U	1.00	U	1.00	U	1.00
1,2,3-Trichloropropane	U	1.00	U	25.0	U	1.00	U	1.00	U	1.00
1,1,2-Trichlorotrifluoroethane	U	5.00	U	125	U	5.00	U	5.00	U	5.00
1,2,4-Trimethylbenzene	U	1.00	U	25.0	U	1.00	U	1.00	2.33	1.00
1,3,5-Trimethylbenzene	U	1.00	U	25.0	U	1.00	U	1.00	1.83	1.00
Vinyl chloride	U	1.00	U	25.0	U	1.00	U	1.00	U	1.00
m&p-Xylene	U	2.00	U	50.0	U	2.00	U	2.00	U	2.00

Table 1.1 (cont) Result of the Analysis for VOC in Water
WA # 0-289 Highway 7 and Wooddale Avenue

Method SW-846 8260B

Sample Number	W120-051208		W409-051308		W101-051308		W433-051308		W438-051308	
Sample Location										
Analyte	Result ug/L	RL ug/L	Result ug/L	RL ug/L	Result ug/L	RL ug/L	Result ug/L	RL ug/L	Result ug/L	RL ug/L
Acetone	2.90 J	5.00	U	5.00	U	5.00	U	5.00	U	50.0
Allyl chloride	U	5.00	U	5.00	U	5.00	U	5.00	U	50.0
Benzene	0.792 J	1.00	6.00	1.00	3.72	1.00	24.7	1.00	10.6	10.0
Bromobenzene	U	1.00	U	1.00	U	1.00	U	1.00	U	10.0
Bromochloromethane	U	1.00	U	1.00	U	1.00	U	1.00	U	10.0
Bromodichloromethane	U	1.00	U	1.00	U	1.00	U	1.00	U	10.0
Bromoform	U	1.00	U	1.00	U	1.00	U	1.00	U	10.0
Bromomethane	U	1.00	U	1.00	U	1.00	U	1.00	U	10.0
2-Butanone (MEK)	U	5.00	U	5.00	U	5.00	U	5.00	U	50.0
n-Butylbenzene	U	1.00	U	1.00	U	1.00	U	1.00	U	10.0
sec-Butylbenzene	U	1.00	U	1.00	U	1.00	U	1.00	U	10.0
Carbon tetrachloride	U	1.00	U	1.00	U	1.00	U	1.00	U	10.0
Chlorobenzene	U	1.00	U	1.00	U	1.00	U	1.00	U	10.0
Chloroethane	U	1.00	U	1.00	U	1.00	U	1.00	U	10.0
Chloroform	U	5.00	U	5.00	U	5.00	U	5.00	U	50.0
Chloromethane	U	1.00	U	1.00	U	1.00	U	1.00	U	10.0
2-Chlorotoluene	U	1.00	U	1.00	U	1.00	U	1.00	U	10.0
4-Chlorotoluene	U	1.00	U	1.00	U	1.00	U	1.00	U	10.0
1,2-Dibromo-3-chloropropane	U	5.00	U	5.00	U	5.00	U	5.00	U	50.0
Dibromochloromethane	U	1.00	U	1.00	U	1.00	U	1.00	U	10.0
1,2-Dibromoethane (EDB)	U	1.00	U	1.00	U	1.00	U	1.00	U	10.0
Dibromomethane	U	1.00	U	1.00	U	1.00	U	1.00	U	10.0
1,2-Dichlorobenzene	U	1.00	U	1.00	U	1.00	U	1.00	U	10.0
1,3-Dichlorobenzene	U	1.00	U	1.00	U	1.00	U	1.00	U	10.0
1,4-Dichlorobenzene	U	1.00	U	1.00	U	1.00	U	1.00	U	10.0
Dichlorodifluoromethane	U	1.00	U	1.00	U	1.00	U	1.00	U	10.0
1,1-Dichloroethane	U	1.00	U	1.00	U	1.00	U	1.00	U	10.0
1,2-Dichloroethane	U	1.00	U	1.00	U	1.00	U	1.00	U	10.0
1,1-Dichloroethene	U	1.00	U	1.00	U	1.00	U	1.00	U	10.0
cis-1,2-Dichloroethene	16.2	1.00	0.892 J	1.00	U	1.00	17.6	1.00	862	10.0
trans-1,2-Dichloroethene	1.42	1.00	1.57	1.00	1.52	1.00	4.40	1.00	26.5	10.0
Dichlorofluoromethane	U	1.00	U	1.00	U	1.00	U	1.00	U	10.0
1,2-Dichloropropane	U	1.00	U	1.00	U	1.00	U	1.00	U	10.0
1,3-Dichloropropane	U	1.00	U	1.00	U	1.00	U	1.00	U	10.0
2,2-Dichloropropane	U	1.00	U	1.00	U	1.00	U	1.00	U	10.0
1,1-Dichloropropene	U	1.00	U	1.00	U	1.00	U	1.00	U	10.0
cis-1,3-Dichloropropene	U	1.00	U	1.00	U	1.00	U	1.00	U	10.0
trans-1,3-Dichloropropene	U	1.00	U	1.00	U	1.00	U	1.00	U	10.0
Diethyl ether (Ethyl ether)	U	1.00	U	1.00	U	1.00	U	1.00	U	10.0
Ethylbenzene	U	1.00	5.73	1.00	U	1.00	U	1.00	U	10.0
Hexachloro-1,3-butadiene	U	1.00	U	1.00	U	1.00	U	1.00	U	10.0
Isopropylbenzene (Cumene)	U	1.00	0.596 J	1.00	U	1.00	U	1.00	U	10.0
p-Isopropyltoluene	U	1.00	U	1.00	U	1.00	U	1.00	U	10.0
Methylene Chloride	U	1.00	U	1.00	U	1.00	U	1.00	U	10.0
4-Methyl-2-pentanone (MIBK)	U	5.00	U	5.00	U	5.00	U	5.00	U	50.0
Methyl-tert-butyl ether	U	1.00	U	1.00	U	1.00	U	1.00	U	10.0
Naphthalene	U	5.00	0.804 J	5.00	U	5.00	U	5.00	9.30 J	50.0
o-Xylene	U	1.00	1.66	1.00	U	1.00	U	1.00	U	10.0
n-Propylbenzene	U	1.00	U	1.00	U	1.00	U	1.00	U	10.0
Styrene	U	1.00	U	1.00	U	1.00	U	1.00	U	10.0
tert-Butylbenzene	U	1.00	U	1.00	U	1.00	U	1.00	U	10.0
1,1,1,2-Tetrachloroethane	U	1.00	U	1.00	U	1.00	U	1.00	U	10.0
1,1,2,2-Tetrachloroethane	U	1.00	U	1.00	U	1.00	U	1.00	U	10.0
Tetrachloroethene	U	1.00	U	1.00	U	1.00	U	1.00	U	10.0
Tetrahydrofuran	U	5.00	U	5.00	U	5.00	U	5.00	U	50.0
Toluene	U	1.00	U	1.00	U	1.00	U	1.00	U	10.0
1,2,3-Trichlorobenzene	U	1.00	U	1.00	U	1.00	U	1.00	U	10.0
1,2,4-Trichlorobenzene	U	1.00	U	1.00	U	1.00	U	1.00	U	10.0
1,1,1-Trichloroethane	U	1.00	U	1.00	U	1.00	U	1.00	U	10.0
1,1,2-Trichloroethane	U	1.00	U	1.00	U	1.00	U	1.00	U	10.0
Trichloroethene	U	1.00	U	1.00	U	1.00	U	1.00	21.6	10.0
Trichlorofluoromethane	U	1.00	U	1.00	U	1.00	U	1.00	U	10.0
1,2,3-Trichloropropane	U	1.00	U	1.00	U	1.00	U	1.00	U	10.0
1,1,2-Trichlorotrifluoroethane	U	5.00	U	5.00	U	5.00	U	5.00	U	50.0
1,2,4-Trimethylbenzene	U	1.00	U	1.00	U	1.00	U	1.00	U	10.0
1,3,5-Trimethylbenzene	U	1.00	U	1.00	U	1.00	U	1.00	U	10.0
Vinyl chloride	2.53	1.00	U	1.00	U	1.00	4.33	1.00	23.3	10.0
m&p-Xylene	U	2.00	U	2.00	U	2.00	U	2.00	U	20.0

Table 1.1 (cont) Result of the Analysis for VOC in Water
WA # 0-289 Highway 7 and Wooddale Avenue

Method SW-846 8260B

Sample Number W143-051308
Sample Location

Analyte	Result ug/L	RL ug/L
Acetone	U	5.00
Allyl chloride	U	5.00
Benzene	U	1.00
Bromobenzene	U	1.00
Bromochloromethane	U	1.00
Bromodichloromethane	U	1.00
Bromoform	U	1.00
Bromomethane	U	1.00
2-Butanone (MEK)	U	5.00
n-Butylbenzene	U	1.00
sec-Butylbenzene	U	1.00
Carbon tetrachloride	U	1.00
Chlorobenzene	U	1.00
Chloroethane	U	1.00
Chloroform	U	5.00
Chloromethane	U	1.00
2-Chlorotoluene	U	1.00
4-Chlorotoluene	U	1.00
1,2-Dibromo-3-chloropropane	U	5.00
Dibromochloromethane	U	1.00
1,2-Dibromoethane (EDB)	U	1.00
Dibromomethane	U	1.00
1,2-Dichlorobenzene	U	1.00
1,3-Dichlorobenzene	U	1.00
1,4-Dichlorobenzene	U	1.00
Dichlorodifluoromethane	U	1.00
1,1-Dichloroethane	U	1.00
1,2-Dichloroethane	U	1.00
1,1-Dichloroethene	U	1.00
cis-1,2-Dichloroethene	26.8	1.00
trans-1,2-Dichloroethene	12.8	1.00
Dichlorofluoromethane	U	1.00
1,2-Dichloropropane	U	1.00
1,3-Dichloropropane	U	1.00
2,2-Dichloropropane	U	1.00
1,1-Dichloropropene	U	1.00
cis-1,3-Dichloropropene	U	1.00
trans-1,3-Dichloropropene	U	1.00
Diethyl ether (Ethyl ether)	U	1.00
Ethylbenzene	0.682 J	1.00
Hexachloro-1,3-butadiene	U	1.00
Isopropylbenzene (Cumene)	U	1.00
p-Isopropyltoluene	U	1.00
Methylene Chloride	U	1.00
4-Methyl-2-pentanone (MIBK)	U	5.00
Methyl-tert-butyl ether	U	1.00
Naphthalene	0.895 J	5.00
o-Xylene	U	1.00
n-Propylbenzene	U	1.00
Styrene	U	1.00
tert-Butylbenzene	U	1.00
1,1,1,2-Tetrachloroethane	U	1.00
1,1,2,2-Tetrachloroethane	U	1.00
Tetrachloroethene	0.662 J	1.00
Tetrahydrofuran	U	5.00
Toluene	U	1.00
1,2,3-Trichlorobenzene	U	1.00
1,2,4-Trichlorobenzene	U	1.00
1,1,1-Trichloroethane	U	1.00
1,1,2-Trichloroethane	U	1.00
Trichloroethene	92.5	1.00
Trichlorofluoromethane	U	1.00
1,2,3-Trichloropropane	U	1.00
1,1,2-Trichlorotrifluoroethane	U	5.00
1,2,4-Trimethylbenzene	U	1.00
1,3,5-Trimethylbenzene	U	1.00
Vinyl chloride	2.91	1.00
m&p-Xylene	U	2.00

Table 1.1 (cont) Result of the Analysis for VOC in Water
WA # 0-289 Highway 7 and Wooddale Avenue

Method: REAC SOP 1806

Sample Number	Water Blank A 061308-1		0289-50065		0289-50064		0289-50058		0289-50059	
Sample Location:			TB01		RB01		SLP01		SLP02	
Analyte	Result µg/L	RL µg/L	Result µg/L	RL µg/L	Result µg/L	RL µg/L	Result µg/L	RL µg/L	Result µg/L	RL µg/L
Dichlorodifluoromethane	U	5.00	U	5.00	U	5.00	1.48 J	5.00	U	5.00
Chloromethane	U	5.00	U	5.00	U	5.00	U	5.00	U	5.00
Vinyl Chloride	U	5.00	U	5.00	U	5.00	10.4	5.00	13.5	5.00
Bromomethane	U	5.00	U	5.00	U	5.00	U	5.00	U	5.00
Chloroethane	U	5.00	U	5.00	U	5.00	U	5.00	U	5.00
Trichlorofluoromethane	U	5.00	U	5.00	U	5.00	U	5.00	U	5.00
Acetone	U	20.0	U	20.0	U	20.0	U	20.0	U	20.0
1,1-Dichloroethene	U	5.00	U	5.00	U	5.00	U	5.00	U	5.00
Methylene Chloride	U	5.00	U	5.00	U	5.00	U	5.00	U	5.00
Carbon Disulfide	U	5.00	U	5.00	U	5.00	U	5.00	U	5.00
Methyl tert-Butyl Ether	U	5.00	U	5.00	U	5.00	U	5.00	U	5.00
trans-1,2-Dichloroethene	U	5.00	U	5.00	U	5.00	U	5.00	U	5.00
1,1 Dichloroethane	U	5.00	U	5.00	U	5.00	U	5.00	U	5.00
2-Butanone	U	5.00	U	5.00	U	5.00	U	5.00	U	5.00
2,2-Dichloropropane	U	5.00	U	5.00	U	5.00	U	5.00	U	5.00
cis-1,2-Dichloroethene	U	5.00	U	5.00	U	5.00	U	5.00	U	5.00
Chloroform	U	5.00	U	5.00	U	5.00	U	5.00	U	5.00
1,1-Dichloropropene	U	5.00	U	5.00	U	5.00	U	5.00	U	5.00
1,2-Dichloroethane	U	5.00	U	5.00	U	5.00	U	5.00	U	5.00
1,1,1-Trichloroethane	U	5.00	U	5.00	U	5.00	U	5.00	U	5.00
Carbon Tetrachloride	U	5.00	U	5.00	U	5.00	U	5.00	U	5.00
Benzene	U	5.00	U	5.00	U	5.00	U	5.00	U	5.00
Trichloroethene	U	5.00	U	5.00	U	5.00	U	5.00	U	5.00
1,2-Dichloropropane	U	5.00	U	5.00	U	5.00	U	5.00	U	5.00
Bromodichloromethane	U	5.00	U	5.00	U	5.00	U	5.00	U	5.00
Dibromomethane	U	5.00	U	5.00	U	5.00	U	5.00	U	5.00
cis-1,3-Dichloropropene	U	5.00	U	5.00	U	5.00	U	5.00	U	5.00
trans-1,3-Dichloropropene	U	5.00	U	5.00	U	5.00	U	5.00	U	5.00
1,1,2-Trichloroethane	U	5.00	U	5.00	U	5.00	3.34 J	5.00	U	5.00
1,3-Dichloropropane	U	5.00	U	5.00	U	5.00	U	5.00	U	5.00
Dibromochloromethane	U	5.00	U	5.00	U	5.00	U	5.00	U	5.00
1,2-Dibromoethane	U	5.00	U	5.00	U	5.00	U	5.00	U	5.00
Bromoform	U	5.00	U	5.00	U	5.00	U	5.00	U	5.00
4-Methyl-2-Pentanone	U	5.00	U	5.00	U	5.00	U	5.00	U	5.00
Toluene	U	5.00	U	5.00	U	5.00	U	5.00	U	5.00
2-Hexanone	U	5.00	U	5.00	U	5.00	U	5.00	U	5.00
Tetrachloroethene	U	5.00	U	5.00	U	5.00	U	5.00	U	5.00
Chlorobenzene	U	5.00	U	5.00	U	5.00	U	5.00	U	5.00
1,1,1,2-Tetrachloroethane	U	5.00	U	5.00	U	5.00	U	5.00	U	5.00
Ethylbenzene	U	5.00	U	5.00	U	5.00	U	5.00	U	5.00
p&m-Xylene	U	10.0	U	10.0	U	10.0	U	10.0	U	10.0
o-Xylene	U	5.00	U	5.00	U	5.00	U	5.00	U	5.00
Styrene	U	5.00	U	5.00	U	5.00	U	5.00	U	5.00
Isopropylbenzene	U	5.00	U	5.00	U	5.00	U	5.00	U	5.00
1,1,2,2-Tetrachloroethane	U	5.00	U	5.00	U	5.00	U	5.00	U	5.00
1,2,3-Trichloropropane	U	5.00	U	5.00	U	5.00	U	5.00	U	5.00
n-Propylbenzene	U	5.00	U	5.00	U	5.00	U	5.00	U	5.00
Bromobenzene	U	5.00	U	5.00	U	5.00	U	5.00	U	5.00
1,3,5-Trimethylbenzene	U	5.00	U	5.00	U	5.00	U	5.00	U	5.00
2-Chlorotoluene	U	5.00	U	5.00	U	5.00	U	5.00	U	5.00
4-Chlorotoluene	U	5.00	U	5.00	U	5.00	U	5.00	U	5.00
tert-Butylbenzene	U	5.00	U	5.00	U	5.00	U	5.00	U	5.00
1,2,4-Trimethylbenzene	U	5.00	U	5.00	U	5.00	U	5.00	U	5.00
sec-Butylbenzene	U	5.00	U	5.00	U	5.00	U	5.00	U	5.00
p-Isopropyltoluene	U	5.00	U	5.00	U	5.00	U	5.00	U	5.00
1,3-Dichlorobenzene	U	5.00	U	5.00	U	5.00	U	5.00	U	5.00
1,4-Dichlorobenzene	U	5.00	U	5.00	U	5.00	U	5.00	U	5.00
n-Butylbenzene	U	5.00	U	5.00	U	5.00	U	5.00	U	5.00
1,2-Dichlorobenzene	U	5.00	U	5.00	U	5.00	U	5.00	U	5.00
1,2-Dibromo-3-Chloropropane	U	5.00	U	5.00	U	5.00	U	5.00	U	5.00
1,2,4-Trichlorobenzene	U	5.00	U	5.00	U	5.00	U	5.00	U	5.00
Hexachlorobutadiene	U	5.00	U	5.00	U	5.00	U	5.00	U	5.00
Naphthalene	U	5.00	U	5.00	U	5.00	U	5.00	U	5.00
1,2,3-Trichlorobenzene	U	5.00	U	5.00	U	5.00	U	5.00	U	5.00

Table 1.1 (cont) Result of the Analysis for VOC in Water
WA # 0-289 Highway 7 and Wooddale Avenue

Method: REAC SOP 1806

Sample Number	Water Blank A 061308-1		0289-50060			0289-50061	
Sample Location:			SLP03			SLP04	
Analyte	Result µg/L	RL µg/L	Result µg/L		RL µg/L	Result µg/L	RL µg/L
Dichlorodifluoromethane	U	5.00	U	J	5.00	U	5.00
Chloromethane	U	5.00	U	J	5.00	U	5.00
Vinyl Chloride	U	5.00	U	J	5.00	U	5.00
Bromomethane	U	5.00	U	J	5.00	U	5.00
Chloroethane	U	5.00	U	J	5.00	U	5.00
Trichlorofluoromethane	U	5.00	U	J	5.00	U	5.00
Acetone	U	20.0	U	J	20.0	U	20.0
1,1-Dichloroethene	U	5.00	U	J	5.00	U	5.00
Methylene Chloride	U	5.00	U	J	5.00	U	5.00
Carbon Disulfide	U	5.00	U	J	5.00	U	5.00
Methyl tert-Butyl Ether	U	5.00	U	J	5.00	U	5.00
trans-1,2-Dichloroethene	U	5.00	1.64	J	5.00	U	5.00
1,1 Dichloroethane	U	5.00	U	J	5.00	U	5.00
2-Butanone	U	5.00	U	J	5.00	U	5.00
2,2-Dichloropropane	U	5.00	U	J	5.00	U	5.00
cis-1,2-Dichloroethene	U	5.00	6.56	J	5.00	U	5.00
Chloroform	U	5.00	U	J	5.00	U	5.00
1,1-Dichloropropene	U	5.00	U	J	5.00	U	5.00
1,2-Dichloroethane	U	5.00	U	J	5.00	U	5.00
1,1,1-Trichloroethane	U	5.00	U	J	5.00	U	5.00
Carbon Tetrachloride	U	5.00	U	J	5.00	U	5.00
Benzene	U	5.00	U	J	5.00	U	5.00
Trichloroethene	U	5.00	4.57	J	5.00	U	5.00
1,2-Dichloropropane	U	5.00	U	J	5.00	U	5.00
Bromodichloromethane	U	5.00	U	J	5.00	U	5.00
Dibromomethane	U	5.00	U	J	5.00	U	5.00
cis-1,3-Dichloropropene	U	5.00	U	J	5.00	U	5.00
trans-1,3-Dichloropropene	U	5.00	U	J	5.00	U	5.00
1,1,2-Trichloroethane	U	5.00	U	J	5.00	U	5.00
1,3-Dichloropropane	U	5.00	U	J	5.00	U	5.00
Dibromochloromethane	U	5.00	U	J	5.00	U	5.00
1,2-Dibromoethane	U	5.00	U	J	5.00	U	5.00
Bromoform	U	5.00	U	J	5.00	U	5.00
4-Methyl-2-Pentanone	U	5.00	U	J	5.00	U	5.00
Toluene	U	5.00	U	J	5.00	U	5.00
2-Hexanone	U	5.00	U	J	5.00	U	5.00
Tetrachloroethene	U	5.00	1.35	J	5.00	U	5.00
Chlorobenzene	U	5.00	U	J	5.00	U	5.00
1,1,1,2-Tetrachloroethane	U	5.00	U	J	5.00	U	5.00
Ethylbenzene	U	5.00	U	J	5.00	U	5.00
p&m-Xylene	U	10.0	U	J	10.0	U	10.0
o-Xylene	U	5.00	U	J	5.00	U	5.00
Styrene	U	5.00	U	J	5.00	U	5.00
Isopropylbenzene	U	5.00	U	J	5.00	U	5.00
1,1,2,2-Tetrachloroethane	U	5.00	U	J	5.00	U	5.00
1,2,3-Trichloropropane	U	5.00	U	J	5.00	U	5.00
n-Propylbenzene	U	5.00	U	J	5.00	U	5.00
Bromobenzene	U	5.00	U	J	5.00	U	5.00
1,3,5-Trimethylbenzene	U	5.00	U	J	5.00	U	5.00
2-Chlorotoluene	U	5.00	U	J	5.00	U	5.00
4-Chlorotoluene	U	5.00	U	J	5.00	U	5.00
tert-Butylbenzene	U	5.00	U	J	5.00	U	5.00
1,2,4-Trimethylbenzene	U	5.00	U	J	5.00	U	5.00
sec-Butylbenzene	U	5.00	U	J	5.00	U	5.00
p-Isopropyltoluene	U	5.00	U	J	5.00	U	5.00
1,3-Dichlorobenzene	U	5.00	U	J	5.00	U	5.00
1,4-Dichlorobenzene	U	5.00	U	J	5.00	U	5.00
n-Butylbenzene	U	5.00	U	J	5.00	U	5.00
1,2-Dichlorobenzene	U	5.00	U	J	5.00	U	5.00
1,2-Dibromo-3-Chloropropane	U	5.00	U	J	5.00	U	5.00
1,2,4-Trichlorobenzene	U	5.00	U	J	5.00	U	5.00
Hexachlorobutadiene	U	5.00	U	J	5.00	U	5.00
Naphthalene	U	5.00	U	J	5.00	U	5.00
1,2,3-Trichlorobenzene	U	5.00	U	J	5.00	U	5.00

Table 1.1 (cont) Result of the Analysis for VOC in Water
WA # 0-289 Highway 7 and Wooddale Avenue

Method: REAC SOP 1806

Sample Number	Water Blank A 061608-1		0289-50062		0289-50063	
Sample Location:			SLP05		FD01	
Analyte	Result µg/L	RL µg/L	Result µg/L	RL µg/L	Result µg/L	RL µg/L
Dichlorodifluoromethane	U	5.00	U	5.00	1.57 J	5.00
Chloromethane	U	5.00	U	5.00	U J	5.00
Vinyl Chloride	U	5.00	U	5.00	9.18 J	5.00
Bromomethane	U	5.00	U	5.00	U J	5.00
Chloroethane	U	5.00	U	5.00	U J	5.00
Trichlorofluoromethane	U	5.00	U	5.00	U J	5.00
Acetone	U	20.0	20.6 J	20.0	U J	20.0
1,1-Dichloroethene	U	5.00	U	5.00	U J	5.00
Methylene Chloride	U	5.00	U	5.00	U J	5.00
Carbon Disulfide	U	5.00	U	5.00	U J	5.00
Methyl tert-Butyl Ether	U	5.00	U	5.00	U J	5.00
trans-1,2-Dichloroethene	U	5.00	U	5.00	U J	5.00
1,1 Dichloroethane	U	5.00	U	5.00	U J	5.00
2-Butanone	U	5.00	U	5.00	U J	5.00
2,2-Dichloropropane	U	5.00	U	5.00	U J	5.00
cis-1,2-Dichloroethene	U	5.00	U	5.00	U J	5.00
Chloroform	U	5.00	U	5.00	U J	5.00
1,1-Dichloropropene	U	5.00	U	5.00	U J	5.00
1,2-Dichloroethane	U	5.00	U	5.00	U J	5.00
1,1,1-Trichloroethane	U	5.00	U	5.00	U J	5.00
Carbon Tetrachloride	U	5.00	U	5.00	U J	5.00
Benzene	U	5.00	U	5.00	U J	5.00
Trichloroethene	U	5.00	U	5.00	U J	5.00
1,2-Dichloropropane	U	5.00	U	5.00	U J	5.00
Bromodichloromethane	U	5.00	U	5.00	U J	5.00
Dibromomethane	U	5.00	U	6.00	U J	5.00
cis-1,3-Dichloropropene	U	5.00	U	6.00	U J	5.00
trans-1,3-Dichloropropene	U	5.00	U	5.00	U J	5.00
1,1,2-Trichloroethane	U	5.00	U	5.00	3.44 J	5.00
1,3-Dichloropropane	U	5.00	U	5.00	U J	5.00
Dibromochloromethane	U	5.00	U	5.00	U J	5.00
1,2-Dibromoethane	U	5.00	U	5.00	U J	5.00
Bromoform	U	5.00	U	5.00	U J	5.00
4-Methyl-2-Pentanone	U	5.00	U	5.00	U J	5.00
Toluene	U	5.00	U	5.00	U J	5.00
2-Hexanone	U	5.00	U	5.00	U J	5.00
Tetrachloroethene	U	5.00	U	5.00	U J	5.00
Chlorobenzene	U	5.00	U	5.00	U J	5.00
1,1,1,2-Tetrachloroethane	U	5.00	U	5.00	U J	5.00
Ethylbenzene	U	5.00	U	5.00	U J	5.00
p&m-Xylene	U	10.0	U	10.0	U J	10.0
o-Xylene	U	5.00	U	5.00	U J	5.00
Styrene	U	5.00	U	5.00	U J	5.00
Isopropylbenzene	U	5.00	U	5.00	U J	5.00
1,1,2,2-Tetrachloroethane	U	5.00	U	5.00	U J	5.00
1,2,3-Trichloropropane	U	5.00	U	5.00	U J	5.00
n-Propylbenzene	U	5.00	U	5.00	U J	5.00
Bromobenzene	U	5.00	U	5.00	U J	5.00
1,3,5-Trimethylbenzene	U	5.00	U	5.00	U J	5.00
2-Chlorotoluene	U	5.00	U	5.00	U J	5.00
4-Chlorotoluene	U	5.00	U	5.00	U J	5.00
tert-Butylbenzene	U	5.00	U	5.00	U J	5.00
1,2,4-Trimethylbenzene	U	5.00	U	5.00	U J	5.00
sec-Butylbenzene	U	5.00	U	5.00	U J	5.00
p-Isopropyltoluene	U	5.00	U	5.00	U J	5.00
1,3-Dichlorobenzene	U	5.00	U	5.00	U J	5.00
1,4-Dichlorobenzene	U	5.00	U	5.00	U J	5.00
n-Butylbenzene	U	5.00	U	5.00	U J	5.00
1,2-Dichlorobenzene	U	5.00	U	5.00	U J	5.00
1,2-Dibromo-3-Chloropropane	U	5.00	U	5.00	U J	5.00
1,2,4-Trichlorobenzene	U	5.00	U	5.00	U J	5.00
Hexachlorobutadiene	U	5.00	U	5.00	U J	5.00
Naphthalene	U	5.00	U	5.00	U J	5.00
1,2,3-Trichlorobenzene	U	5.00	U	5.00	U J	5.00

Table 1.2 Results of the TIC Analysis for VOC in Water
HWY 7 & Wooddale Ave, WA# 0-289

Sample Number	Compound	Conc.* (µg/L)
Water Blank A 061308-1	Dimethoxymethane	5.50
Water Blank A 061608-1	Dimethoxymethane	10.5
0289-50059	Fluorodichloromethane	7.65
0289-50065	TICs were not detected	
0289-50064	TICs were not detected	
0289-50058	TICs were not detected	
0289-50060	TICs were not detected	
0289-50061	TICs were not detected	
0289-50062	TICs were not detected	
0289-50063	TICs were not detected	

* Estimated Concentration

Table 2.1 Results of the LCS Analysis for VOC in Water
WA # 0-289 Highway 7 and Wooddale Avenue

Sample No. LCS 05/06/08

Analyte	LCS/LCSD Spike Added µg/L	LCS Conc. µg/L	LCS % Recovery	LCSD Conc. µg/L	LCSD % Recovery	RPD	QC Limits % Recovery	QC Limits RPD
1,1,1-Trichloroethane	50	58.9	118	59.6	119	1	75-128	20
1,1,2,2-Tetrachloroethane	50	39.6	79	39.1	78	1	67-125	20
1,1,2-Trichloroethane	50	45.0	90	44.8	90	0	75-125	20
1,1-Dichloroethane	50	48.0	96	48.2	96	0	71-130	20
1,1-Dichloroethene	50	54.0	108	53.2	106	1	75-125	20
1,2-Dichloroethane	50	56.4	113	55.5	111	2	71-132	20
1,2-Dichloropropane	50	44.9	90	43.4	87	3	73-125	20
2-Butanone	50	40.8	82	43.7	87	7	59-130	20
4-Methyl-2-pentanone	50	39.0	78	38.2	76	2	59-125	20
Acetone	50	51.9	104	51.4	103	1	31-150	20
Benzene	50	47.3	95	44.6	89	6	75-125	20
Bromodichloromethane	50	54.2	108	54.9	110	1	75-125	20
Bromoform	50	46.0	92	44.6	89	3	75-125	20
Bromomethane	50	59.2	118	58.4	117	1	66-125	20
Carbon tetrachloride	50	62.6	125	62.1	124	1	75-125	20
Chlorobenzene	50	51.1	102	51.3	103	0	75-125	20
Chloroethane	50	50.2	100	47.7	95	5	72-126	20
Chloroform	50	53.2	106	51.5	103	3	75-125	20
Chloromethane	50	36.0	72	34.2	68	5	46-143	20
cis-1,2-Dichloroethene	50	48.7	97	48.3	97	1	75-125	20
cis-1,3-Dichloropropene	50	49.6	99	49.2	98	1	75-125	20
Dibromochloromethane	50	51.0	102	50.6	101	1	75-125	20
Ethylbenzene	50	52.0	104	52.4	105	1	75-125	20
m&p-xylenes	100	103	103	103	103	0	75-125	20
Methylene Chloride	50	52.6	105	52.7	105	0	75-125	20
o-Xylene	50	52.0	104	53.2	106	2	75-125	20
Styrene	50	48.4	97	49.5	99	2	75-125	20
Tetrachloroethene	50	52.1	104	52.3	105	0	75-130	20
Toluene	50	48.5	97	47.1	94	3	75-125	20
trans-1,2-Dichloroethene	50	37.4	75*	35.9	72*	4	75-125	20
trans-1,3-Dichloropropene	50	52.2	104	51.7	103	1	75-125	20
Trichloroethene	50	52.4	105	51.1	102	3	75-125	20
Vinyl chloride	50	44.8	90	42.2	84	6	65-130	20

Table 2.1 (cont) Results of the LCS Analysis for VOC in Water
WA # 0-289 Highway 7 and Wooddale Avenue

Sample No. LCS 05/14/08

Analyte	LCS/LCSD Spike Added µg/L	LCS Conc. µg/L	LCS % Recovery	LCSD Conc. µg/L	LCSD % Recovery	RPD	QC Limits % Recovery	QC Limits RPD
1,1,1-Trichloroethane	50	48.6	97	48.7	97	0	75-128	20
1,1,2,2-Tetrachloroethane	50	45.8	92	46.9	94	2	67-125	20
1,1,2-Trichloroethane	50	54.1	108	55.1	110	2	75-125	20
1,1-Dichloroethane	50	52.4	105	53.1	106	1	71-130	20
1,1-Dichloroethene	50	55.0	110	55.0	110	0	75-125	20
1,2-Dichloroethane	50	46.7	93	46.3	93	1	71-132	20
1,2-Dichloropropane	50	55.4	111	54.3	109	2	73-125	20
2-Butanone	50	49.3	99	45.9	92	7	59-130	20
4-Methyl-2-pentanone	50	49.7	99	49.2	98	1	59-125	20
Acetone	50	53.7	107	47.5	95	12	31-150	20
Benzene	50	49.4	99	50.7	101	3	75-125	20
Bromodichloromethane	50	48.8	98	50.1	100	3	75-125	20
Bromoform	50	41.5	83	43.3	87	4	75-125	20
Bromomethane	50	45.9	92	50.2	100	9	66-125	20
Carbon tetrachloride	50	49.0	98	49.9	100	2	75-125	20
Chlorobenzene	50	52.4	105	52.3	105	0	75-125	20
Chloroethane	50	52.0	104	51.8	104	0	72-126	20
Chloroform	50	48.7	97	48.4	97	1	75-125	20
Chloromethane	50	47.6	95	48.6	97	2	46-143	20
cis-1,2-Dichloroethene	50	52.3	105	52.9	106	1	75-125	20
cis-1,3-Dichloropropene	50	53.9	108	55.3	111	3	75-125	20
Dibromochloromethane	50	44.3	89	45.9	92	4	75-125	20
Ethylbenzene	50	51.4	103	51.3	103	0	75-125	20
m&p-xylenes	100	106	106	107	107	1	75-125	20
Methylene Chloride	50	49.5	99	49.6	99	0	75-125	20
o-Xylene	50	51.6	103	53.0	106	3	75-125	20
Styrene	50	48.8	98	50.0	100	2	75-125	20
Tetrachloroethene	50	52.5	105	54.2	108	3	75-130	20
Toluene	50	52.0	104	51.9	104	0	75-125	20
trans-1,2-Dichloroethene	50	52.7	105	53.7	107	2	75-125	20
trans-1,3-Dichloropropene	50	46.7	93	48.2	96	3	75-125	20
Trichloroethene	50	53.6	107	53.1	106	1	75-125	20
Vinyl chloride	50	50.3	101	51.0	102	1	65-130	20

Table 2.1 (cont) Results of the LCS Analysis for VOC in Water
WA # 0-289 Highway 7 and Wooddale Avenue

Sample No. LCS 05/16/08

Analyte	LCS/LCSD Spike Added µg/L	LCS Conc. µg/L	LCS % Recovery	LCSD Conc. µg/L	LCSD % Recovery	RPD	QC Limits % Recovery	QC Limits RPD
1,1,1-Trichloroethane	50	47.7	95	46.8	94	2	75-128	20
1,1,2,2-Tetrachloroethane	50	45.3	91	44.3	89	2	67-125	20
1,1,2-Trichloroethane	50	53.7	107	51.4	103	4	75-125	20
1,1-Dichloroethane	50	48.3	97	48.8	98	1	71-130	20
1,1-Dichloroethene	50	53.2	106	52.2	104	2	75-125	20
1,2-Dichloroethane	50	45.6	91	45.3	91	1	71-132	20
1,2-Dichloropropane	50	53.3	107	52.5	105	2	73-125	20
2-Butanone	50	52.9	106	44.4	89	17	59-130	20
4-Methyl-2-pentanone	50	50.4	101	47.3	95	6	59-125	20
Acetone	50	60.9	122	50.6	101	18	31-150	20
Benzene	50	46.5	93	46.9	94	1	75-125	20
Bromodichloromethane	50	50.9	102	50.5	101	1	75-125	20
Bromoform	50	44.0	88	44.1	88	0	75-125	20
Bromomethane	50	42.4	85	43.4	87	2	66-125	20
Carbon tetrachloride	50	48.1	96	48.9	98	2	75-125	20
Chlorobenzene	50	51.8	104	52.4	105	1	75-125	20
Chloroethane	50	47.4	95	47.1	94	1	72-126	20
Chloroform	50	46.7	93	46.3	93	1	75-125	20
Chloromethane	50	45.3	91	47.2	94	4	46-143	20
cis-1,2-Dichloroethene	50	50.1	100	49.3	99	2	75-125	20
cis-1,3-Dichloropropene	50	53.6	107	53.2	106	1	75-125	20
Dibromochloromethane	50	45.5	91	45.7	91	0	75-125	20
Ethylbenzene	50	50.3	101	51.0	102	1	75-125	20
m&p-xylenes	100	106	106	106	106	0	75-125	20
Methylene Chloride	50	47.1	94	46.3	93	2	75-125	20
o-Xylene	50	52.0	104	52.5	105	1	75-125	20
Styrene	50	50.1	100	50.1	100	0	75-125	20
Tetrachloroethene	50	55.5	111	55.6	111	0	75-130	20
Toluene	50	50.6	101	50.6	101	0	75-125	20
trans-1,2-Dichloroethene	50	49.7	99	50.5	101	2	75-125	20
trans-1,3-Dichloropropene	50	46.6	93	47.4	95	2	75-125	20
Trichloroethene	50	53.9	108	54.2	108	1	75-125	20
Vinyl chloride	50	47.5	95	48.4	97	2	65-130	20

Table 2.1 (cont.) Results of LCS Analysis for Volatile Organics in Water
WA # 0-289 Highway 7 and Wooddale Avenue

Sample No: LCS AW 061308-1

Analyte	LCS Spike Added (µg/L)	LCS Conc. (µg/L)	LCS % Rec.		QC Limits % Rec.
Dichlorodifluoromethane	50.0	40.2	80		70 - 130
Chloromethane	50.0	45.5	91		70 - 130
Vinyl Chloride	50.0	59.9	120		70 - 130
Bromomethane	50.0	50.0	100		70 - 130
Chloroethane	50.0	50.6	101		70 - 130
Trichlorofluoromethane	50.0	53.2	106		70 - 130
Acetone	50.0	103	206	*	70 - 130
1,1-Dichloroethene	50.0	47.3	95		70 - 130
Methylene Chloride	50.0	46.0	92		70 - 130
Carbon Disulfide	50.0	42.3	85		70 - 130
Methyl-t-butyl Ether	50.0	43.4	87		70 - 130
trans-1,2-Dichloroethene	50.0	49.0	98		70 - 130
1,1-Dichloroethane	50.0	49.5	99		70 - 130
2-Butanone	50.0	69.3	139	*	70 - 130
2,2-Dichloropropane	50.0	52.0	104		70 - 130
cis-1,2-Dichloroethene	50.0	46.7	93		70 - 130
Chloroform	50.0	49.4	99		70 - 130
1,1-Dichloropropene	50.0	48.3	97		70 - 130
1,2-Dichloroethane	50.0	49.5	99		70 - 130
1,1,1-Trichloroethane	50.0	47.6	95		70 - 130
Carbon Tetrachloride	50.0	48.3	97		70 - 130
Benzene	50.0	48.7	97		70 - 130
Trichloroethene	50.0	46.1	92		70 - 130
1,2-Dichloropropane	50.0	47.0	94		70 - 130
Bromodichloromethane	50.0	45.5	91		70 - 130
Dibromomethane	50.0	46.9	94		70 - 130
cis-1,3-Dichloropropene	50.0	48.6	97		70 - 130
trans-1,3-Dichloropropene	50.0	53.0	106		70 - 130
1,1,2-Trichloroethane	50.0	47.8	96		70 - 130
1,3-Dichloropropane	50.0	48.0	96		70 - 130
Dibromochloromethane	50.0	47.5	95		70 - 130
1,2-Dibromoethane	50.0	47.2	94		70 - 130
Bromoform	50.0	48.9	98		70 - 130
4-Methyl-2-Pentanone	50.0	46.8	94		70 - 130
Toluene	50.0	48.4	97		70 - 130
2-Hexanone	50.0	66.9	134	*	70 - 130
Tetrachloroethene	50.0	47.5	95		70 - 130
Chlorobenzene	50.0	48.4	97		70 - 130
1,1,1,2-Tetrachloroethane	50.0	46.8	94		70 - 130
Ethylbenzene	50.0	48.9	98		70 - 130
p&m-Xylene	100.0	99.5	100		70 - 130
o-Xylene	50.0	50.4	101		70 - 130
Styrene	50.0	48.5	97		70 - 130
Isopropylbenzene	50.0	52.9	106		70 - 130
1,1,2,2-Tetrachloroethane	50.0	48.7	97		70 - 130
1,2,3-Trichloropropane	50.0	47.8	96		70 - 130
n-Propylbenzene	50.0	50.4	101		70 - 130
Bromobenzene	50.0	50.5	101		70 - 130
1,3,5-Trimethylbenzene	50.0	51.1	102		70 - 130
2-Chlorotoluene	50.0	50.7	101		70 - 130
4-Chlorotoluene	50.0	49.6	99		70 - 130
tert-Butylbenzene	50.0	50.6	101		70 - 130
1,2,4-Trimethylbenzene	50.0	49.5	99		70 - 130
sec-Butylbenzene	50.0	51.6	103		70 - 130
p-Isopropyltoluene	50.0	51.7	103		70 - 130
1,3-Dichlorobenzene	50.0	50.2	100		70 - 130
1,4-Dichlorobenzene	50.0	50.8	102		70 - 130
n-Butylbenzene	50.0	50.5	101		70 - 130
1,2-Dichlorobenzene	50.0	51.2	102		70 - 130
1,2-Dibromo-3-chloropropane	50.0	49.6	99		70 - 130
1,2,4-Trichlorobenzene	50.0	50.3	101		70 - 130
Hexachlorobutadiene	50.0	48.8	98		70 - 130
Naphthalene	50.0	46.8	94		70 - 130
1,2,3-Trichlorobenzene	50.0	49.0	98		70 - 130

Table 2.2 Results of MS/MSD Analysis for Volatile Organics in Water (REAC)
HWY 7 & Wooddale Ave, WA# 0-289

Sample No. : 0289-50060

Analyte	Sample Conc. µg/l	MS Spike Added µg/l	MSD Spike Added µg/l	MS Conc. µg/l	MSD Conc. µg/l	MS % Rec.	MSD % Rec.	RPD	QC Limits % Rec.	QC Limits RPD
1,1-Dichloroethene	U	50.0	50.0	49.2	48.8	98	98	1	61 - 145	14
Benzene	U	50.0	50.0	47.9	48.0	96	96	0	76 - 127	11
Trichloroethene	4.6	50.0	50.0	51.2	51.5	93	94	1	71 - 120	14
Toluene	U	50.0	50.0	49.8	49.7	100	99	0	76 - 125	13
Chlorobenzene	U	50.0	50.0	48.4	48.3	97	97	0	75 - 130	13

Lockheed Martin
Response Engineering Analytical Contract
2890 Woodbridge Avenue Building 209 Annex
Edison, NJ 08837-3679
Telephone 732-321-4200 Facsimile 732-494-4021

LOCKHEED MARTIN

PACE
1700 Elm Street Suite 200
Minneapolis, MN 55414

Attn: Carolynne Trout

April 24, 2008

As per Lockheed Martin / REAC Credit Card 4763 issued to Scott Thompson for Project 0-289, please analyze samples according to the following parameters:

Analysis/Method	Matrix	# of samples
VOC/SW-846-8260	Water	30
Data package: Package with Diskette Deliverable		

Samples are expected to arrive at your laboratory the week of April 28, 2008. **All applicableQA/QC**(eg: BS/BSD, LCS, Duplicates, and Blanks) **analysis as per method, will be performed on our sample matrix**. Preliminary sample and QC result tables plus a signed copy of our Chain of Custody must be sent to REAC 10 business days after receipt of samples. The complete data package is due 15 business days after receipt of the samples. The complete data package must include all items on the deliverables checklist.

All sample and QC results must be summarized in a tab delimited file diskette deliverable.

Please submit all reports concerning this project to **John Johnson at (732) 321-4248 or john.m.johnson@lmco.com**.

Sincerely,

Vinod Kansal

Vinod Kansal
Analytical Section Leader
Lockheed Martin / REAC Project

VK:jj Attachments

cc. R. Singhvi
G. Newhart
0289\non\mem\0804\sub\0289Con3
V. Kansal
Subcontracting File
J. Soroka
S. Thompson

0289-DAR-070208

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Lockheed Martin
2890 Woodbridge Ave
Edison, NJ 08837
John Johnson 732-321-4200

CHAIN-OF-CUSTODY / Analytical Request Document

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

AB ✓

Page: 1 of 2

1198654

Section A Required Client Information:	Section B Required Project Information:	Section C Invoice Information:
Company: ~~ENSR Corp~~	Report To:	Attention:
Address: ~~4500 Park Glen Rd, 210~~ ~~St. Louis Park, MN 55416~~	Copy To:	Company Name:
		Address:
Email To: ~~[illegible]~~	Purchase Order No.:	Pace Quote Reference:
Phone: ~~952-924-0117~~ Fax:	Project Name: Lockheed Martin VOC	Pace Project Manager:
Requested Due Date/TAT:	Project Number:	Pace Profile #:

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☐ OTHER

Site Location STATE:

Section D Required Client Information

Matrix Codes MATRIX / CODE: Drinking Water DW, Water WT, Waste Water WW, Product P, Soil/Solid SL, Oil OL, Wipe WP, Air AR, Tissue TS, Other OT

Requested Analysis Filtered (Y/N)

9 waters - 4/28/08
2 - waters - 4/29/08

403286

ITEM #	SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE		MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE START DATE	COLLECTED COMPOSITE START TIME	COLLECTED COMPOSITE END/GRAB DATE	COLLECTED COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test (Y/N)	VOC	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	P112-042808 ✓	001	WT	G			4/28/08	1140		3				3						X		3-40ml B
2	W420-042808 ✓	002						1245														
3	P308-042808 ✓	003						1425														
4	P310-042808 ✓	004						1515														
5	W427-042808 ✓	005						1330														
6	~~P309-042808~~																					
7	W439-042808 ✓	006						0955														3-40ml B
8	P307-042808 ✓	007						0935														
9	W117-042808 ✓	008						1025														
10	W427D-042808 ✓	009						1335														
11	W136-042908 ✓	010					4/29/08	0930														
12	W128-042908 ✓	011						1015														

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS: Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
	[signature]	4/30/08	1210	[signature]	04/30/08	1210				
	[signature]	04/30/08	1700			5/1/08				
	FedEx	5-1-08	10:00	[signature] Pace	5-1-08	10:00	2.0	Y	Y	Y

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Andrew J. Tardin

SIGNATURE of SAMPLER: [signature]

DATE Signed (MM/DD/YY):

2

*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

T1852011

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0289-DAR-070208

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Lockheed Martin
2890 Woodbridge Ave
Edison, NJ 08837
John Johnson
732-321-4200

CHAIN-OF-CUSTODY / Analytical Request Document

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

AB ✓

Page: 2 of 2

1198655

Section A Required Client Information:	Section B Required Project Information:	Section C Invoice Information:
Company: ~~ENSR Corp.~~	Report To:	Attention:
Address: ~~4500 Park Glen Rd, 210~~	Copy To:	Company Name:
~~St. Louis Park, MN 55416~~		Address:
Email To: ~~atarara@ensr.com.com~~	Purchase Order No.:	Pace Quote Reference:
Phone: ~~952-924-0417~~ Fax:	Project Name: Lockheed Martin VOC	Pace Project Manager:
Requested Due Date/TAT:	Project Number:	Pace Profile #:

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☐ OTHER _____

Site Location STATE: _____

Section D Required Client Information

Matrix Codes MATRIX / CODE: Drinking Water DW, Water WT, Waste Water WW, Product P, Soil/Solid SL, Oil OL, Wipe WP, Air AR, Tissue TS, Other OT

Requested Analysis Filtered (Y/N)

#	SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE START DATE	COLLECTED COMPOSITE START TIME	COLLECTED COMPOSITE END/GRAB DATE	COLLECTED COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test (Y/N)	VOC	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	P312-042908 ✓ 012	WT	G			4/29/08	1200		3				3						X		3-40ml B
2	P109-042908 ✓ 013						1350														
3	W422-042908 ✓ 014						1430														
4	P309-042908 ✓ 015						1500														
5	W421-042908 X ✓ 016																				3-40ml B
6	Trip Blank ✓ * 017																				2-40ml B
7	* Rec'd + not on COC. Added by lab cf 5-1-08																				
8																					
9																					
10																					
11																					
12																					

Gwater - 4/29/08

403286

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS: Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
	[signature]	4/30/08	1210	[signature]	04/30/08	1210				
	[signature]	04/30/08	1700			5/1/08				
	FedEx	5-1-08	10:00	[signature] Pace	5-1-08	10:00	2.0	Y	Y	Y

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Andrew J. Tarara

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

2

*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

T089-012

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0289-DAR-070208

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CHAIN-OF-CUSTODY / Analy

The Chain-of-Custody is a LEGAL DOCUMENT. All re

GREEN BAY

1 of 1

1198656

Section A Required Client Information:	Section B Required Project Information:	Section C Invoice Information:
Company: USEPA	Report To:	Attention:
Address:	Copy To:	Company Name:
		Address:
Email To:	Purchase Order No.:	Pace Quote Reference:
Phone: Fax:	Project Name: Lockheed Martin VOC	Pace Project Manager:
Requested Due Date/TAT:	Project Number:	Pace Profile #:

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☐ OTHER

Site Location STATE:

Section D Required Client Information

Matrix Codes MATRIX / CODE: Drinking Water DW, Water WT, Waste Water WW, Product P, Soil/Solid SL, Oil OL, Wipe WP, Air AR, Tissue TS, Other OT

Requested Analysis Filtered (Y/N): Y/N N

ITEM #	SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE START DATE	COLLECTED COMPOSITE START TIME	COLLECTED COMPOSITE END/GRAB DATE	COLLECTED COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test: VOC 8260	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D. 403571
1	W428-050708 ✓ 001	WT		5/7/08	1005				3				X							3-40ml B
2	W434-050708 ✓ 002	WT		5/7/08	1130				↓				X							↓
3	W131-050708 ✓ 003	WT		↓	1530				↓				X							↓
4	W431-050708 ✓ 004	WT		↓	1215				↓				X							↓
5																				
6																				
7																				
8																				
9																				
10																				
11																				
12																				

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS: Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
	Miako Ushio/ENSR	5/7/08	1600							
	Fed Ex	5-8-08	0940	C-J Pace	5-8-08	0940	2.5	Y	Y	Y

ORIGINAL

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Miako Ushio

SIGNATURE of SAMPLER: Miako Ushio DATE Signed (MM/DD/YY): 05/07/08

*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

T1940040

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0289-DAR-070208

Pace Analytical®

CHAIN-OF-CUSTODY / Analytical Request Document

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

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Page: 1 of 1

1008591

Section A Required Client Information:	Section B Required Project Information:	Section C Invoice Information:
Company: EPA	Report To: Jave Scheer	Attention:
Address: 520 Lafayette Rd	Copy To:	Company Name:
St. Paul MN 55155		Address:
Email To: dave.scheer@state.mn.us	Purchase Order No.:	Pace Quote Reference:
Phone / Fax	Project Name: Lockheed Martin VOC	Pace Project Manager:
Requested Due Date/TAT:	Project Number:	Pace Profile #:

REGULATORY AGENCY

☐ NPDES ☒ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☐ Other ____

SITE LOCATION

☐ GA ☐ IL ☐ IN ☐ MI ☒ MN ☐ NC
☐ OH ☐ SC ☐ WI ☐ OTHER ____

Section D Required Client Information

SAMPLE ID

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

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

Filtered (Y/N)

Requested Analysis: VOC

Pace Project Number: 403811

ITEM #	SAMPLE ID	MATRIX CODE	SAMPLE TYPE G=GRAB C=COMP	COMPOSITE START DATE	COMPOSITE START TIME	COMPOSITE END/GRAB DATE	COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	VOC	Residual Chlorine (Y/N)	Lab I.D
1	W437-051208					5/12/08	1520		3				X					X		3-40mL
2	W20-051208						1040													
3	W27-051208						1400													
4	W426-051208						0925													
5	W120-051208						1510													
6	W409-051308					5/13/08	1045													
7	W101-051308						1355													
8	W433-051308						1310													
9	W438-051308						1130													
10	W143-051308						0930													
11																				
12																				

Additional Comments:

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
[signature] ENSR	5/13/08	1600			
FEDEX	5/14/08	1005	[signature]	5/14/08	1005

SAMPLE CONDITION

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

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Dan Phelps ENSR Corp.

SIGNATURE of SAMPLER: [signature]

DATE Signed (MM / DD / YY)

SEE REVERSE SIDE FOR INSTRUCTIONS

ORIGINAL

Appendix B

2007 Sampling Schedule (Reilly Tar Site Related Monitoring Well Network)

2007 Sampling Schedule
(Reilly Tar Site Related Monitoring Well Network)

Aquifer	Location	Frequency	Analysis	1st Qtr	2nd Qtr	3rd Qtr	4th Qtr
DRIFT	W 439	Semi	PPB-PAH		9-May		
DRIFT	P112	Semi	PPB-PAH		9-May		
DRIFT	P307	Semi	PPB-PAH		9-May		
DRIFT	P308	Semi	PPB-PAH		9-May		
DRIFT	P310	Semi	PPB-PAH		9-May		
DRIFT	W427	Semi	PPB-PAH		9-May		
DRIFT	P109	Semi	PPB-PAH		9-May		
DRIFT	W117	Semi	PPB-PAH		9-May		
PLATTE	W426	Semi	PPB-PAH		9-May		
DRIFT	P309	Semi	PPB-PAH		7-May		
DRIFT	W136	Semi	PPB-PAH		7-May		
DRIFT	P312	Semi	PPB-PAH		7-May		
DRIFT	W422	Semi	PPB-PAH		7-May		
DRIFT	W128	Semi	PPB-PAH		8-May		
DRIFT	W420	Quarterly	PPB-PAH	20-Mar	7-May		
PLATTE	W120	Semi	PPB-PAH		7-May		
PLATTE	W437	Semi	PPB-PAH		7-May		
PLATTE	W27	Semi	PPB-PAH		7-May		
PLATTE	W20	Semi	PPB-PAH		7-May		
PLATTE	W 101	Semi	PPB-PAH		7-May		
PLATTE	W433	Semi	PPB-PAH		8-May		
PLATTE	W421	Quarterly	PPB-PAH	20-Mar	8-May		
PLATTE	W434	Semi	PPB-PAH		8-May		
PLATTE	W131	Semi	PPB-PAH		8-May		
PLATTE	W428	Semi	PPB-PAH		8-May		
PLATTE	W431	Semi	PPB-PAH		8-May		
PLATTE	W438	Semi	PPB-PAH		8-May		
PLATTE	W143	Semi	PPB-PAH		8-May		
STP	W 409	Semi	PPB-PAH		8-May		
STP	SLP 3	Semi	PPT-PAH 5		10-May		
STP	W 122	Semi	PPT-PAH 5		10-May		
STP	W 411	Semi	PPT-PAH 5		10-May		
STP	W 133	Semi	PPT-PAH 5		10-May		
STP	W 412	Semi	PPT-PAH 5		10-May		
PCJ	W48	Quarterly	PPT-PAH 5	20-Mar	10-May		
PCJ	SLP 4	Annual	PPT-PAH 5		14-May		
PCJ	W 402	Annual	PPT-PAH 5		14-May		
PCJ	W 403	Annual	PPT-PAH 5		14-May		

2007 Sampling Schedule
(Reilly Tar Site Related Monitoring Well Network)

PCJ	W 29	Annual	PPT-PAH 5		14-May		
PCJ	W 70	Annual	PPT-PAH 5		14-May		
PCJ	H6	Even	PPT-PAH 5				
PCJ	MTK 6	Even	PPT-PAH 5				
PCJ	SLP 6	Quarterly	PPT-PAH 5	20-Mar	14-May		
PCJ	E2	Annual	PPT-PAH 5		15-May		
PCJ	E3	Annual	PPT-PAH 5		15-May		
PCJ	E7	Annual	PPT-PAH 5		15-May		
PCJ	E13	Annual	PPT-PAH 5		15-May		
PCJ	E15	Annual	PPT-PAH 5		15-May		
PCJ	W401	Annual	PPT-PAH 5		15-May		
GAC	SLP 4T	Quarterly	PPT-PAH 5	20-Mar	21-May		
GAC	SLP 10T	Quarterly	PPT-PAH 5	20-Mar	21-May		
PCJ	SLP 14	Even	PPT-PAH 5				
PCJ	SLP 16	Even	PPT-PAH 5				
PCJ	W405 or W406	Even	PPT-PAH 5				
PCJ	W119	Quarterly	PPT-PAH 5	20-Mar	15-May		
MSH	SLP 13	Annual	PPT-PAH 5		21-May		
MSH	SLP 11	Annual	PPT-PAH 5		21-May		
PCJ	W105	Even	PPT-PAH 75				
PCJ	SLP 10 or SLP 15	Annual	PPT-PAH 75		22-May		
PCJ	W 23	Annual	PPT-PAH 75		22-May		
STP	W 24	Semi	PPT-PAH 75		22-May		
STP	W 33	Semi	PPT-PAH 75		22-May		
STP	W 410	Semi	PPT-PAH 75		22-May		
GAC	SLP 4TAF	Annual	ACID FRACTION				
GAC	SLP 10TAF	Annual	ACID FRACTION				
MSH	SLP 12	Annual	PPT-PAH 5		21-May		
MSH	SLP 17	Annual	PPT-PAH 5		21-May		
DRIFT	P311	Semi	PPB-PAH				
DRIFT	W11	Semi	PPB-PAH				

Every 20 samples: Collect D, MS, MSD
Every sampling event/every day : FB, FBD

	Not Available
	Quarterly
	Semi-Annual
	Even Year
	Annual