

February 27, 2009

Mr. Brett Middleton  
EnCana Oil & Gas (USA) Inc.  
2717 County Rd. 215  
Suite 100  
Parachute, CO 81635

Re: West Divide Seep Area Fourth Quarter Monitoring Status Report for December 2008

Dear Mr. Middleton:

Cordilleran Compliance Services, Inc. (Cordilleran), a division of Olsson Associates, has completed quarterly groundwater and surface-water monitoring for EnCana Oil & Gas (USA) Inc. (EnCana) at the West Divide Creek Gas Seep (Figure 1) for the fourth quarter of 2008.

This report summarizes the status of the remediation system and the results of surface-water and groundwater monitoring in December 2008 and data collected since 2004 to monitor the impacts of the dissolved phase volatile hydrocarbons comprised primarily of methane and benzene at the seep site.

### ***Groundwater and Surface-Water Monitoring***

Cordilleran collected groundwater samples from 22 monitoring wells during the last quarter of 2008 (Figure 1). Two duplicate samples were also collected from the monitoring wells. Prior to sample collection, static water levels were measured in monitoring wells to within 0.01 feet (ft) from the top of the PVC casing using an electronic water level indicator then a total of three casing volumes were removed prior to sampling each well using dedicated disposable bailers with bottom loading valve assemblies. Field parameters were obtained at the completion of purging activities and included temperature, specific conductance, dissolved oxygen, pH, total dissolved solids and turbidity. Groundwater samples were collected following field parameter measurements.

Cordilleran collected eight surface-water samples (DCS-1-8), extending from the former seep area to the northern Langer property line. Field parameters (temperature, specific conductance, dissolved oxygen, pH, total dissolved solids, and turbidity) were also collected from the West Divide Creek locations (Figure 1). One duplicate sample was acquired from a sampling point in the creek.

Water-quality samples collected during this period were analyzed by Evergreen Analytical Laboratory (EAL) of Wheat Ridge, CO for the following analyses:

- BTEX/MTBE using EPA method 8021
- Dissolved methane using method RSK 175M
- Chloride (Cl) using method 300E
- Sodium (Na) using method SW6020

- pH using EPA method 150.1
- Total dissolved solids (TDS) using method SM240C
- Specific conductivity using method SM251B.

Isotopic methane was determined by Isotech Laboratories, Inc of Champaign, IL. Stable isotopes of carbon and hydrogen in methane and stable isotopes of carbon in ethane and propane and gas composition were determined where dissolved gas concentrations were sufficient.

Groundwater and surface-water samples were placed in the appropriate sample containers provided by EAL, labeled, stored on ice, and delivered under chain-of-custody procedures to EAL.

### ***Site Hydrogeology and Hydrology***

For this monitoring period, groundwater was encountered from near surface (in the seep area) to 23.9 (MW-21) feet below ground surface (ft-bgs). The groundwater flow direction continues to be from the seep area towards the north, mimicking the creek flow direction (Figure 2). The groundwater gradient for this period of monitoring was 0.017 feet/foot (ft/ft), which is consistent with gradients measured during other monitoring periods.

The flow in the creek during December was low, as is typical for the winter monitoring period. There were no unusual bubbles observed in the creek and in the area near the seep during this monitoring period.

### ***Groundwater Monitoring Results***

A summary of laboratory analytical groundwater results for December 2008 is presented in Table 1. The extent of benzene concentrations for this monitoring period is shown in Figure 3. The distribution of total dissolved methane concentrations are shown in Figure 4. The December 2008 results along with results for this year are depicted in Figure 5. The December 2008 field parameters are contained in Appendix A. A summary of historical hydrocarbon analyses results for groundwater data collected since 2004 are contained in Appendix B. Appendix C contains a summary of historical hydrocarbon analyses results for surface-water data collected since 2004. The Eicher-Bracken data is summarized in Appendix D. The QA/QC data are contained in Appendix E. The thermogenic methane data are summarized in Appendix F. The laboratory reports for December 2008 are in Appendix G. Graphs of chemical concentrations are in Appendix H.

For December 2008, detections of benzene continue to be found in monitoring wells 2, 4, 9 and 17 (Table 1). Benzene concentrations were detected above the state standard of  $5\ \mu\text{g}/\text{l}$  in monitoring wells MW-2 at  $140\ \mu\text{g}/\text{l}$ , MW-4 at  $100\ \mu\text{g}/\text{l}$ , and MW-17 at  $21\ \mu\text{g}/\text{l}$  (Table 1). The reported benzene concentration at MW-9 was  $1.1\ \mu\text{g}/\text{l}$ . Toluene was not detected in any monitoring wells during this monitoring period (Table 1). Ethylbenzene was only detected during December in monitoring well MW-2 at a concentration of  $4.0\ \mu\text{g}/\text{l}$  (Table 1). Total xylenes were detected in MW-2 and MW-4 (Table 1). The data continues to show decreasing concentrations of hydrocarbons at all locations (Appendices B and H).

The laboratory results for methane are reported as total dissolved methane. This includes both biogenic (methane gas generated by biologic reduction of organic matter) and thermogenic

methane (methane gas generated by thermal reduction of deeply buried organic matter). Total dissolved methane above the LDL is generally detected in all monitoring wells in the study area. As previously observed in the seep area, the highest concentrations of total dissolved methane in the groundwater are located in close proximity to the seep at well MW-4 (Table 1 and Figure 4).

The primary qualitative methods of differentiating between thermogenic and biogenic methane are based on isotopic data, methane / non-methane hydrocarbon ratios, and literature values for the evaluations. The data are first evaluated on the basis of the laboratory-determined values of  $\delta^{13}\text{C}_1$  (methane carbon-13 isotope ratio),  $\delta\text{DC}_1$  (methane hydrogen isotope ratio). These values are compared with Figure 9 in Appendix F (from Kaplan, et. al., 1997) which empirically delineates the different isotopic values of methane from biogenic and thermogenic sources. The data are then evaluated on the basis of the  $\text{C}_1 / (\text{C}_2 + \text{C}_3)$  ratio (methane to ethane and propane). Hydrocarbon gas from 'biogenic-only' sources contains a high proportion of methane (>99%) and  $\text{C}_1 / (\text{C}_2 + \text{C}_3)$  values greater than 10,000 would be consistent with methane from biogenic sources. If these evaluations produce ambiguous results then the sample may be a mixed source sample and a gross quantitative approximation of the thermogenic / biogenic split is arrived at by comparing the gas component profile with a known sample of 'reservoir-typical' thermogenic gas. The methane fraction of a 'reservoir-typical' thermogenic source (79%) is used as a baseline and the biogenic source is assumed to be 100% methane. An algebraic mixing calculation is used to estimate what percentage of the total methane comes from biogenic versus thermogenic sources.

Isotopic samples were collected from monitoring wells 2, 4, 6, 12, 14, 16, 17, 23 and 27 and creek locations DCS-2 and DCS-3 during this monitoring period. The results for these locations are shown in Appendix F. All of these estimated concentrations are less than the initial concentrations, but have remained stable at these concentrations since 2005.

### ***Surface-Water Monitoring Results***

A summary of historical surface-water results for hydrocarbons is contained in Appendix C. Laboratory results indicate that BTEX compounds were not detected in any of the Divide Creek surface-water samples in December (Table 2). Total dissolved methane was detected in all samples, but all with reported concentrations less than 0.002 mg / l (Table 2). The results from December 2008 date indicate that significant hydrocarbon concentrations above background have not been detected in the creek since 2007 (Appendix C).

### ***Divide Creek Seep Remediation Status***

The air sparge remediation system has operated continuously throughout this quarter with minimal down time. Since the start up of the system in April of 2004, the number of monitoring wells in the study area with benzene concentrations above the maximum contaminant level (MCL) has been reduced from 14 to 3 with all of the wells above the MCL located in the seep area and upgradient of the remediation system wells. The system is positioned to provide a barrier to prevent the downgradient migration of the chemicals of concern.

Monitoring has continuously shown that the air sparge remediation system has successfully contained migration of the hydrocarbon plume even with the reduction in treatment time from 24 hr/day to 12 hr/day. Since the reduction in treatment time in May 2008, the data suggest that this reduction in treatment time has not changed groundwater quality in the vicinity of the remediation system (Appendix B). The treatment time may be reduced further if the data

continues to show treatment at 12 hr/day is sufficient. Cordilleran will continue to evaluate remedial options in the area upgradient of the present air sparge array.

Cordilleran will continue to monitor all monitoring wells and surface-water locations on a quarterly basis and provide operation and maintenance to the system on an as needed basis. A duplicate sample for thermogenic analysis will be acquired from one of the monitoring wells.

Cordilleran appreciates the opportunity to provide services to EnCana Oil & Gas (USA) Inc. If you have any questions or concerns regarding this information, please contact our offices.

Sincerely,

A handwritten signature in blue ink, appearing to read 'Brad Stephenson', with a long horizontal flourish extending to the right.

Brad Stephenson, P.G.  
Associate Hydrogeologist

Attachments



# TABLES

**Table 1**

Summary of December 2008 Groundwater Analytical Results and Groundwater Elevations  
 Encana, West Divide Creek Seep  
 Garfield County, Colorado

Sample ID	Date	Benzene (ug/L)	Toluene (ug/L)	Ethylbenzene (ug/L)	Total Xylene (ug/L)	Total Dissolved Methane (mg/L)	Estimated Thermogenic Methane (mg/L)	Groundwater Elevation (ft-msl)
Colorado RBSLs (ug/L)		5	1000	680	10000			
MW-01	09-Dec-08	<1	<2	<2	<2	0.18		5952.14
MW-02	10-Dec-08	<b>140</b>	<2	4.0	32.0	7.3	5.4	5953.28
MW-04	09-Dec-08	<b>100</b>	<2	<2	28.4	8.6	6.5	5955.06
MW-06	09-Dec-08	<1	<2	<2	<2	0.0092	<0.0008	5952.69
MW-07	09-Dec-08	<1	<2	<2	<2	0.0032		5951.37
MW-08	09-Dec-08	<1	<2	<2	<2	0.11		5950.29
MW-09	09-Dec-08	1.1	<2	<2	<2	8.6		5960.67
MW-11	09-Dec-08	<1	<2	<2	<2	0.016		5965.46
MW-12	09-Dec-08	<1	<2	<2	<2	0.13	<0.0008	5961.50
MW-13	08-Dec-08							PLUGGED
MW-14	09-Dec-08	<1	<2	<2	<2	4.7	2.9	5959.86
MW-15	08-Dec-08							FROZEN
MW-16	09-Dec-08	<1	<2	<2	<2	1.2	0.1	5955.25
MW-17	09-Dec-08	<b>21</b>	<2	<2	<2	1.9	1.0	5951.74
MW-18	08-Dec-08	<1	<2	<2	<2	0.034		5949.03
MW-19	08-Dec-08							FROZEN
MW-20	08-Dec-08	<1	<2	<2	<2	0.0011		5945.27
MW-21	08-Dec-08	<1	<2	<2	<2	<0.0008		5945.55
MW-22	08-Dec-08	<1	<2	<2	<2	<0.0008		5946.83
MW-23	08-Dec-08	<1	<2	<2	<2	0.45		5937.92
MW-24	10-Dec-08	<1	<2	<2	<2	<0.0008		5950.33
MW-24D	10-Dec-08	<1	<2	<2	<2	<0.0008		5950.33
MW-24	10-Dec-08	<1	<1	<1	<1	<0.001		5950.33
MW-25	08-Dec-08							FROZEN
MW-26	09-Dec-08	<1	<2	<2	<2	0.73		5953.40
MW-26D	09-Dec-08	<1	<2	<2	<2	0.79		5953.40
MW-26	09-Dec-08	<1	<1	<1	<1	0.145		5953.40
MW-27	08-Dec-08	<1	<2	<2	<2	<0.0008	<0.0008	5950.47

**200 - Bold** exceeds Colorado RBSLs

ug/L - micrograms/Liter

mg/L - milligrams/Liter

Blank cell - not analyzed/not collected

ft-msl - feet above mean sea level

D - Duplicate sample

**Table 2**

Summary of Surface-Water Analytical Results for December 2008  
 Encana, West Divide Creek Seep  
 Garfield County, Colorado

Location ID	Date	Benzene (ug/L)	Toluene (ug/L)	Ethylbenzene (ug/L)	Total Xylene (ug/L)	Total Dissolved Methane (mg/L)	Estimated Thermogenic Methane (mg/L)
Colorado RBSLs (ug/L)		5	1000	680	10,000		
DCS-1	10-Dec-08	<1	<2	<2	<2	<0.0008	
DCS-2	10-Dec-08	<1	<2	<2	<2	0.0022	<0.0008
DCS-3	10-Dec-08	<1	<2	<2	<2	0.067	<0.0008
DCS-4	10-Dec-08	<1	<2	<2	<2	0.006	
DCS-5	10-Dec-08	<1	<2	<2	<2	0.0066	
DCS-5D	10-Dec-08	<1	<2	<2	<2	0.0062	
DCS-5	10-Dec-08	<1	<1	<1	<1	0.003	
DCS-6	10-Dec-08	<1	<2	<2	<2	0.085	
DCS-7	10-Dec-08	<1	<2	<2	<2	0.0083	
DCS-8	10-Dec-08	<1	<2	<2	<2	0.006	

**200 - Bold** exceeds Colorado RBSLs

ug/L - micrograms/liter

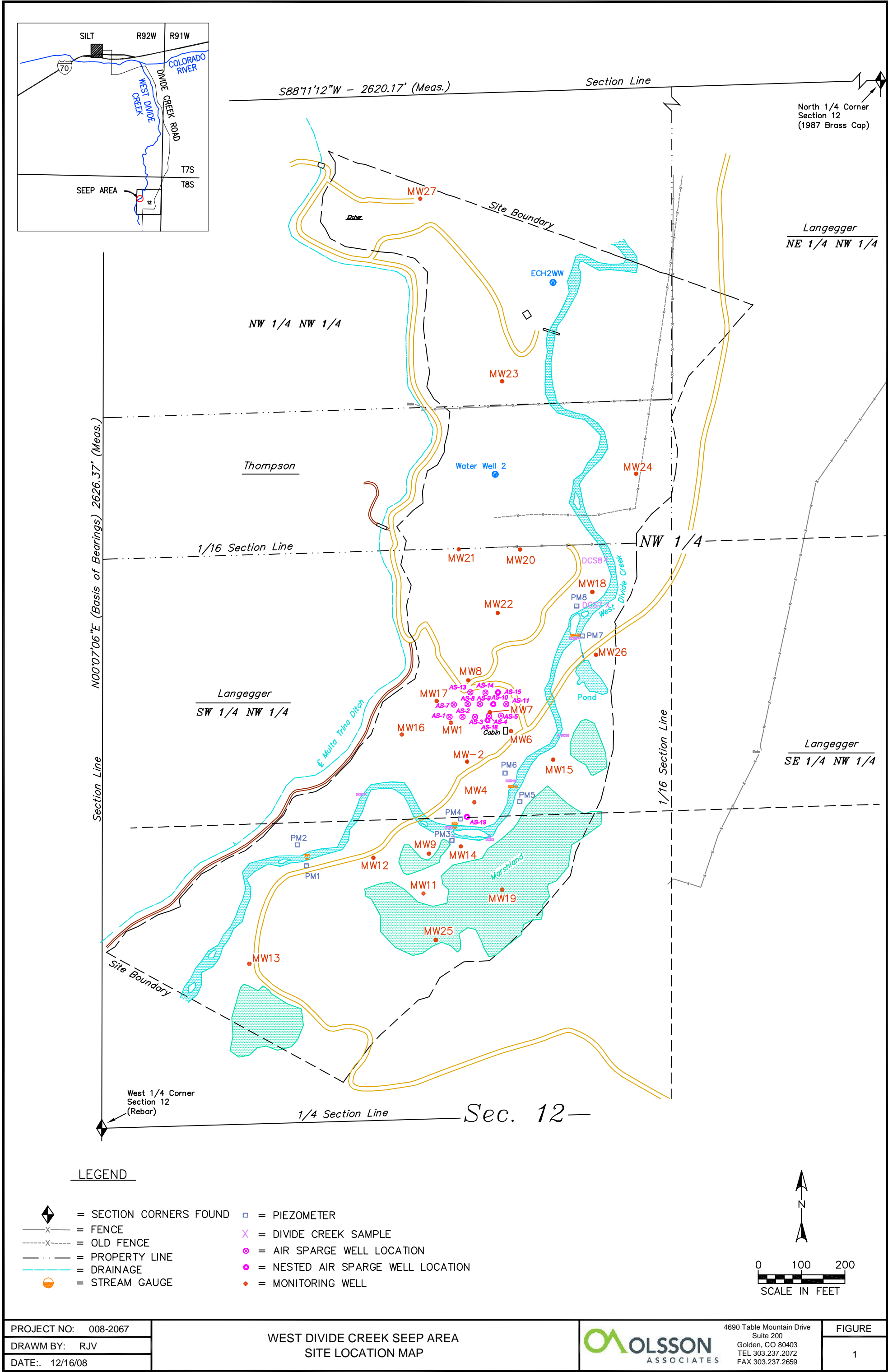
mg/L - milligrams/Liter

Blank cell - not analyzed/not collected

D - Duplicate Sample

## **FIGURES**





PROJECT NO: 008-2067

DRAWN BY: RJV

DATE: 12/16/08

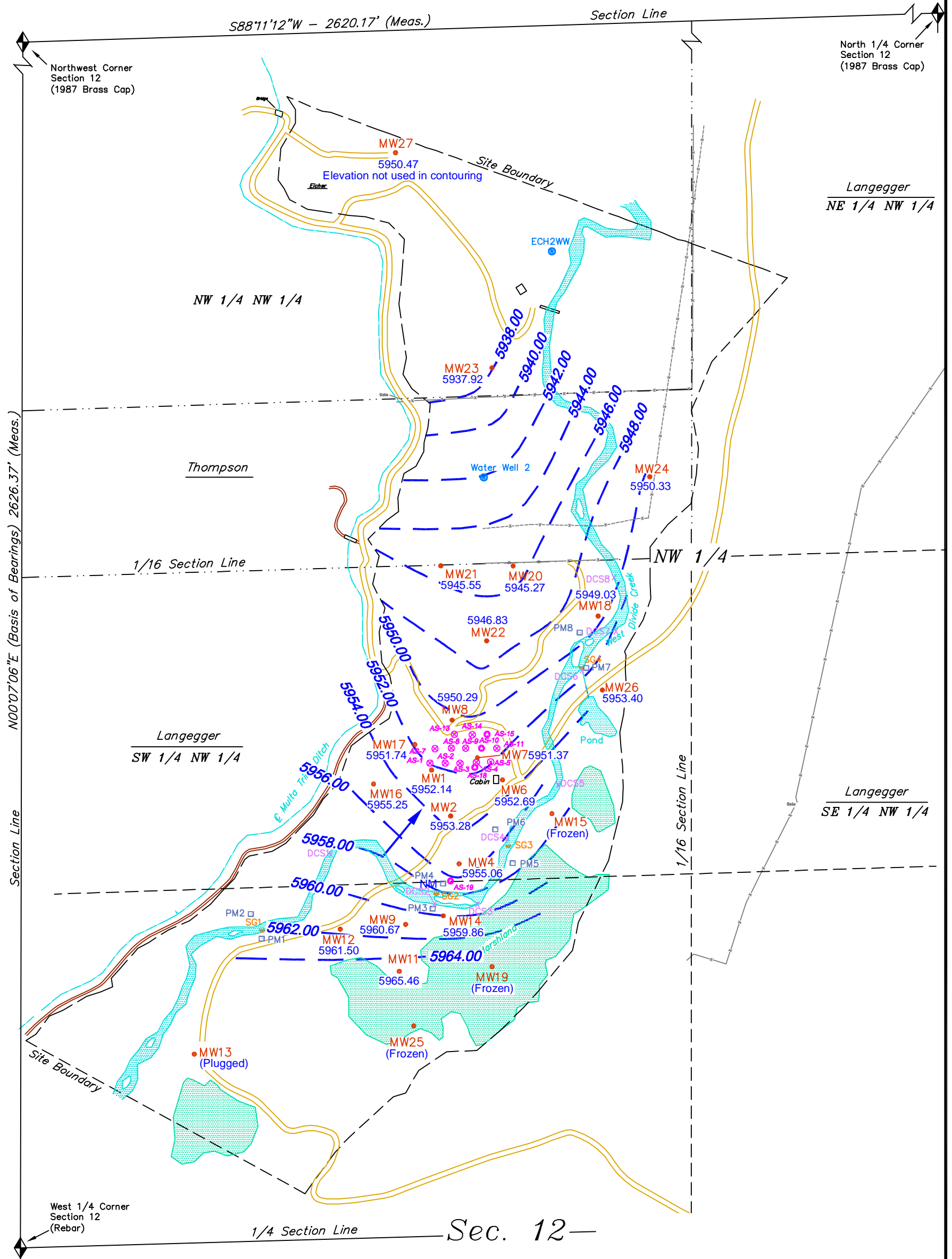
WEST DIVIDE CREEK SEEP AREA  
SITE LOCATION MAP

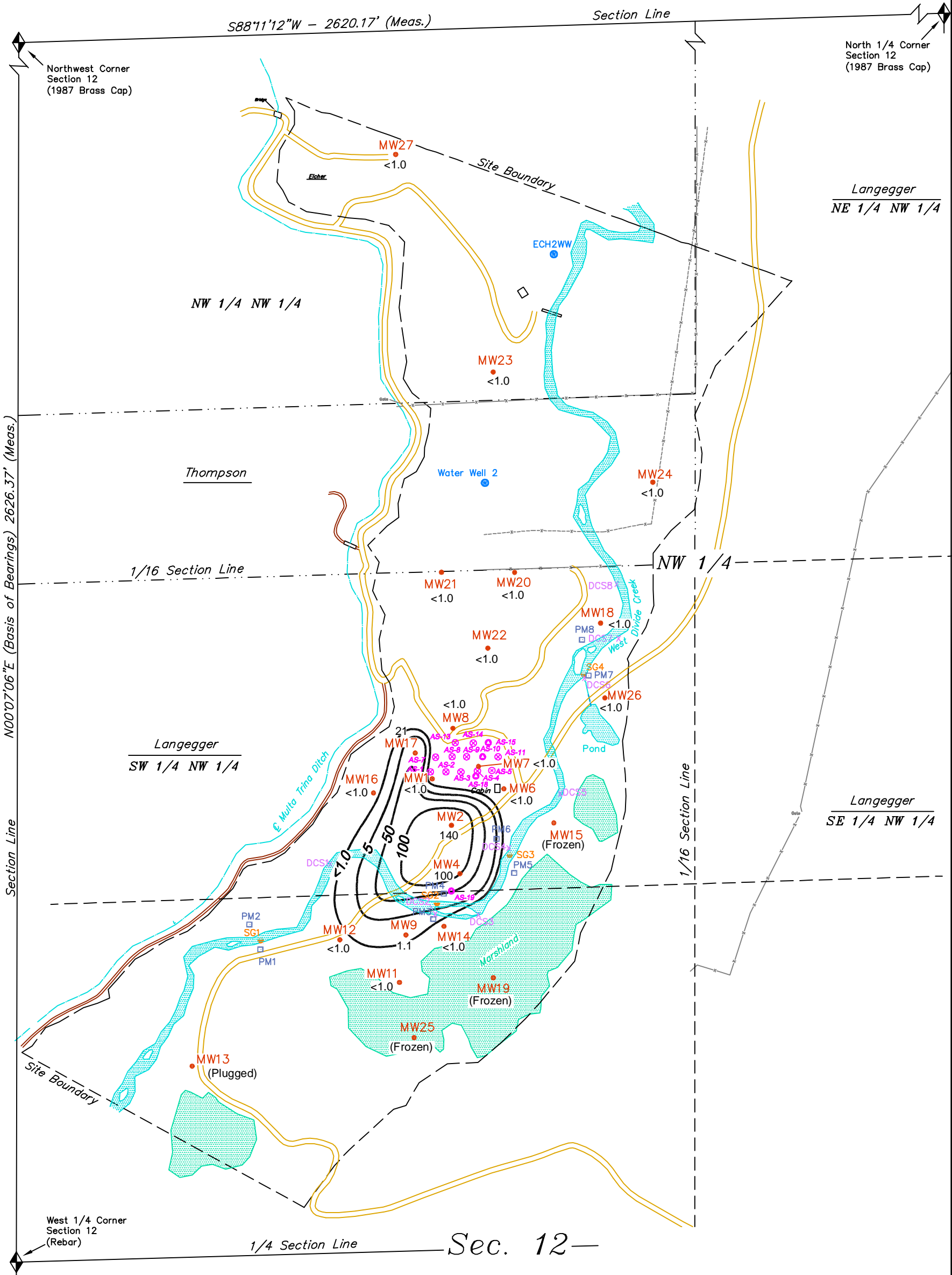
**OLSSON**  
ASSOCIATES

4690 Table Mountain Drive  
Suite 200  
Golden, CO 80403  
TEL 303.237.2072  
FAX 303.237.2659

FIGURE

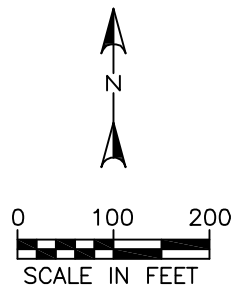
1





LEGEND

- |  |   |  |                                   |
|--|---|--|-----------------------------------|
|  | = SECTION CORNERS FOUND                 |  | = PIEZOMETER                      |
|  | = FENCE                                 |  | = DIVIDE CREEK SAMPLE             |
|  | = OLD FENCE                             |  | = AIR SPARGE WELL LOCATION        |
|  | = PROPERTY LINE                         |  | = NESTED AIR SPARGE WELL LOCATION |
|  | = DRAINAGE                              |  | = MONITORING WELL                 |
|  | = STREAM GAUGE                          |  |                                   |
|  | = BENZENE CONCENTRATION CONTOUR IN µg/L |  |                                   |
|  | = BENZENE CONCENTRATION IN µg/L         |  |                                   |
|  | = NOT SAMPLED                           |  |                                   |



PROJECT NO: 008-2067

DRAWN BY: RJV

DATE: 1/19/09

WEST DIVIDE CREEK SEEP AREA BENZENE CONCENTRATIONS  
DECEMBER 2008  
GARFIELD COUNTY, COLORADO

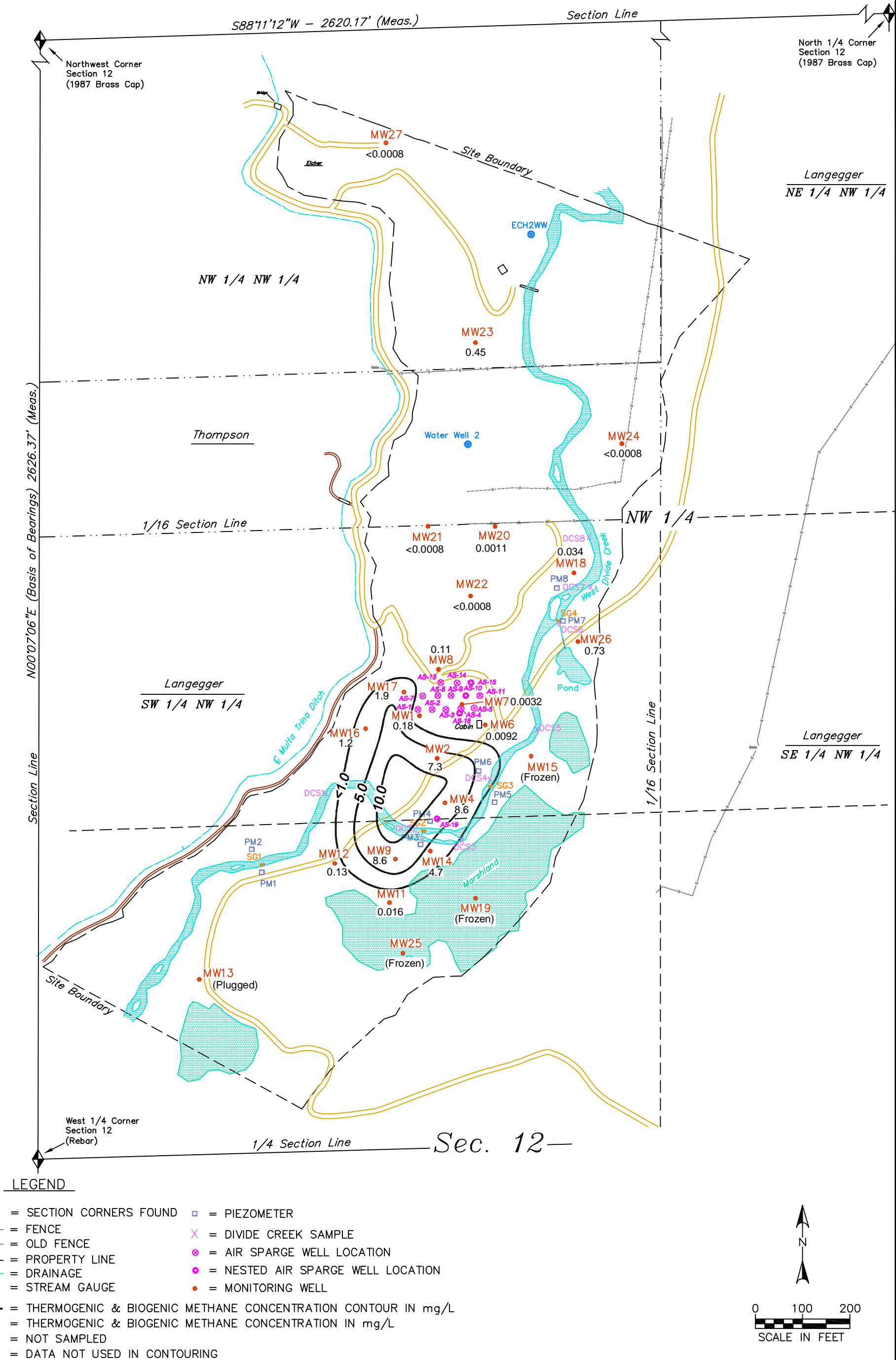
**OLSSON**  
ASSOCIATES

4690 Table Mountain Drive  
Suite 200  
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TEL 303.237.2072  
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FIGURE

3









# **APPENDIX A**

**Raw Field Data – 4<sup>th</sup> Quarter**

Date	SampleName	Seq	SiteID	AssocWellPad	ProjectNumber	Lab	LabNo	Benzene	BenzeneDL	Toluene	TolueneDL	Ethylbenzene	EthylbenzeneDL	mp-Xylene	mp-XyleneDL	o-Xylene	o-XyleneDL
01-Dec-08	EICH1	0	EICH1WW	M1E	008-2067	EAL	L377349	-999.9	0.5	-999.9	5	-999.9	0.5	-999.9	1.5	-999.9	1.5
08-Dec-08	MW23	0	EICH2WW	M1E	008-2067	EAL	08-9379	-999.9	1	-999.9	2	-999.9	2	-999.9	2	-999.9	2
08-Dec-08	MW27	0	EICH3WW	M1E	008-2067	EAL	08-9379	-999.9	1	-999.9	2	-999.9	2	-999.9	2	-999.9	2
10-Dec-08	DCS8	0	LANG10ST	M1E	008-2067	EAL	08-9455	-999.9	1	-999.9	2	-999.9	2	-999.9	2	-999.9	2
10-Dec-08	DCS1	0	LANG3ST	M1E	008-2067	EAL	08-9455	-999.9	1	-999.9	2	-999.9	2	-999.9	2	-999.9	2
10-Dec-08	DCS2	0	LANG4ST	M1E	008-2067	EAL	08-9455	-999.9	1	-999.9	2	-999.9	2	-999.9	2	-999.9	2
10-Dec-08	DCS3	0	LANG5ST	M1E	008-2067	EAL	08-9455	-999.9	1	-999.9	2	-999.9	2	-999.9	2	-999.9	2
10-Dec-08	DCS4	0	LANG6ST	M1E	008-2067	EAL	08-9455	-999.9	1	-999.9	2	-999.9	2	-999.9	2	-999.9	2
10-Dec-08	DCS5	0	LANG7ST	M1E	008-2067	EAL	08-9455	-999.9	1	-999.9	2	-999.9	2	-999.9	2	-999.9	2
10-Dec-08	DCS5D	Dup	LANG7ST	M1E	008-2067	EAL	08-9455	-999.9	1	-999.9	2	-999.9	2	-999.9	2	-999.9	2
10-Dec-08	DCS5	Split	LANG7ST	M1E	008-2067	Energy	C08120437	-999.9	1	-999.9	1	-999.9	1	-999.9	1	-999.9	1
10-Dec-08	DCS6	0	LANG8ST	M1E	008-2067	EAL	08-9455	-999.9	1	-999.9	2	-999.9	2	-999.9	2	-999.9	2
10-Dec-08	DCS7	0	LANG9ST	M1E	008-2067	EAL	08-9455	-999.9	1	-999.9	2	-999.9	2	-999.9	2	-999.9	2
09-Dec-08	MW1	0	LANG10WW	M1E	008-2067	EAL	08-9413	-999.9	1	-999.9	2	-999.9	2	-999.9	2	-999.9	2
09-Dec-08	MW6	0	LANG13WW	M1E	008-2067	EAL	08-9413	-999.9	1	-999.9	2	-999.9	2	-999.9	2	-999.9	2
09-Dec-08	MW9	0	LANG14WW	M1E	008-2067	EAL	08-9411	-999.9	1	-999.9	2	-999.9	2	-999.9	2	-999.9	2
09-Dec-08	MW11	0	LANG15WW	M1E	008-2067	EAL	08-9411	-999.9	1	-999.9	2	-999.9	2	-999.9	2	-999.9	2
09-Dec-08	MW12	0	LANG16WW	M1E	008-2067	EAL	08-9411	-999.9	1	-999.9	2	-999.9	2	-999.9	2	-999.9	2
09-Dec-08	MW14	0	LANG18WW	M1E	008-2067	EAL	08-9411	-999.9	1	-999.9	2	-999.9	2	-999.9	2	-999.9	2
09-Dec-08	MW16	0	LANG20WW	M1E	008-2067	EAL	08-9411	-999.9	1	-999.9	2	-999.9	2	-999.9	2	-999.9	2
09-Dec-08	MW17	0	LANG21WW	M1E	008-2067	EAL	08-9413	21	1	-999.9	2	-999.9	2	-999.9	2	-999.9	2
08-Dec-08	MW18	0	LANG22WW	M1E	008-2067	EAL	08-9379	-999.9	1	-999.9	2	-999.9	2	-999.9	2	-999.9	2
08-Dec-08	MW22	0	LANG24WW	M1E	008-2067	EAL	08-9379	-999.9	1	-999.9	2	-999.9	2	-999.9	2	-999.9	2
09-Dec-08	MW8	0	LANG3WW	M1E	008-2067	EAL	08-9411	-999.9	1	-999.9	2	-999.9	2	-999.9	2	-999.9	2
08-Dec-08	MW20	0	LANG4WW	M1E	008-2067	EAL	08-9379	-999.9	1	-999.9	2	-999.9	2	-999.9	2	-999.9	2
08-Dec-08	MW21	0	LANG5WW	M1E	008-2067	EAL	08-9379	-999.9	1	-999.9	2	-999.9	2	-999.9	2	-999.9	2
10-Dec-08	MW2	0	LANG11WW	M1E	008-2067	EAL	08-9455	140	1	-999.9	2	4.0	2	28	2	4.0	2
09-Dec-08	MW4	0	LANG12WW	M1E	008-2067	EAL	08-9413	100	1	-999.9	2	-999.9	2	25	2	3.4	2
09-Dec-08	MW26	0	LANG26WW	M1E	008-2067	EAL	08-9413	-999.9	1	-999.9	2	-999.9	2	-999.9	2	-999.9	2
09-Dec-08	MW26D	Dup	LANG26WW	M1E	008-2067	EAL	08-9413	-999.9	1	-999.9	2	-999.9	2	-999.9	2	-999.9	2
09-Dec-08	MW26	Split	LANG26WW	M1E	008-2067	Energy	C08120437	-999.9	1	-999.9	1	-999.9	1	-999.9	1	-999.9	1
10-Dec-08	MW24	0	THOM3WW	M1E	008-2067	EAL	08-9455	-999.9	1	-999.9	2	-999.9	2	-999.9	2	-999.9	2
10-Dec-08	MW24D	Dup	THOM3WW	M1E	008-2067	EAL	08-9455	-999.9	1	-999.9	2	-999.9	2	-999.9	2	-999.9	2
10-Dec-08	MW24	Split	THOM3WW	M1E	008-2067	Energy	C08120437	-999.9	1	-999.9	1	-999.9	1	-999.9	1	-999.9	1
09-Dec-08	MW7	0	LANG2WW	M1E	008-2067	EAL	08-9413	-999.9	1	-999.9	2	-999.9	2	-999.9	2	-999.9	2

Date	SampleName	Methane	MethaneDL	TDS	TDS_DL	Na	Na_DL	pH_Lab	SpCond_Lab	Temp_Field	SpCond_Field	DO_Field	pH_Field	TDS_Field	DO_Percent	Turbidity_Field	DTW	DTW_Ref_Pt
01-Dec-08	EICH1	-999.9	0.01	860	10	74	0.5	11	890	8.64	0.912	1.3	7.29	0.6	13.6	6.8		
08-Dec-08	MW23	0.45	0.0008	1230	10	430	0.4	7.51	1590	9.15	1.70	4.86	7.39	1.1	50.3	726	14.77	
08-Dec-08	MW27	-999.9	0.0008	980	10	260	0.4	7.73	1240	6.93	1.37	4.70	7.54	0.9	46.5	680	5.75	
10-Dec-08	DCS8	0.0060	0.0008	637	10	110	0.4	8.42	915	0.25	0.931	12.25	9.55	0.6	103.1	24.8	-88.8	
10-Dec-08	DCS1	-999.9	0.0008	639	10	110	0.4	8.54	944	0.19	1.052	12.83	8.31	0.7	107.1	33.6	-88.8	
10-Dec-08	DCS2	0.0022	0.0008	641	10	120	0.4	8.52	915	0.04	0.936	12.17	9.66	0.6	101.5	40.2	-88.8	
10-Dec-08	DCS3	0.067	0.0008	645	10	110	0.4	8.51	917	0.04	0.926	12.08	9.76	0.6	101.1	41.4	-88.8	
10-Dec-08	DCS4	0.0060	0.0008	633	10	110	0.4	8.54	913	0.03	1.032	12.68	8.30	0.7	105.1	29.9	-88.8	
10-Dec-08	DCS5	0.0066	0.0008	638	10	110	0.4	8.50	925	0.01	1.037	12.79	7.46	0.5	106.0	21.1	-88.8	
10-Dec-08	DCS5D	0.0062	0.0008	636	10	110	0.4	8.50	923	0.01	1.037	12.79	7.46	0.5	106.0	21.1	-88.8	
10-Dec-08	DCS5	0.003	0.001	578	10	118	1	8.49	974	0.01	1.037	12.79	7.46	0.5	106.0	21.1	-88.8	
10-Dec-08	DCS6	0.085	0.0008	637	10	110	0.4	8.47	912	0.22	0.932	12.37	9.58	0.1	103.8	29.6	-88.8	
10-Dec-08	DCS7	0.0083	0.0008	635	10	110	0.4	8.45	913	0.27	0.933	12.40	9.65	0.6	104.2	26.9	-88.8	
09-Dec-08	MW1	0.18	0.0008	756	10	220	0.4	7.46	1120	9.33	1.231	3.00	7.37	0.8	31.3	5999	6.65	
09-Dec-08	MW6	0.0092	0.0008	714	10	130	0.4	7.17	1040	11.34	1.167	3.41	7.15	0.8	37.8	621	7.25	
09-Dec-08	MW9	8.6	0.0008	501	10	56	0.4	7.30	738	3.30	0.84	3.49	7.32	0.5	31.1	161	4.46	
09-Dec-08	MW11	0.016	0.0008	402	10	39	0.4	7.28	635	4.62	0.706	3.16	7.30	0.5	29.5	179	4.2	
09-Dec-08	MW12	0.13	0.0008	606	10	89	0.4	7.19	898	5.44	0.995	3.49	7.21	0.6	32.2	93.9	2.1	
09-Dec-08	MW14	4.7	0.0008	510	10	46	0.4	7.28	773	4.83	0.869	4.23	7.32	0.6	39.0	5999	5.2	
09-Dec-08	MW16	1.2	0.0008	694	10	270	0.4	8.07	1020	9.21	1.125	3.32	7.78	0.7	35.4	303	5.2	
09-Dec-08	MW17	1.9	0.04	798	10	260	0.4	7.55	1140	10.17	1.195	2.13	7.46	0.8	22.1	5999	6.75	
08-Dec-08	MW18	0.034	0.0008	478	10	64	0.4	7.42	680	8.94	0.793	3.46	7.35	0.5	35.6	421	3.4	
08-Dec-08	MW22	-999.9	0.0008	612	10	140	0.4	7.38	884	8.53	1.014	4.65	7.28	0.7	4.65	1715	10.25	
09-Dec-08	MW8	0.11	0.0008	799	10	180	0.4	7.36	1140	10.78	1.281	2.88	7.34	0.8	31.1	213	9.0	
08-Dec-08	MW20	0.0011	0.0008	644	10	110	0.4	7.31	864	8.47	1.007	5.06	7.28	0.6	52.4	2000	8.4	
08-Dec-08	MW21	-999.9	0.0008	718	10	230	0.4	7.47	1010	8.75	1.159	3.11	7.36	0.7	32.3	294	23.9	
10-Dec-08	MW2	7.3	0.0008	527	10	120	0.4	7.58	803	9.44	0.840	3.81	7.46	0.5	39.7	2000	6.0	
09-Dec-08	MW4	8.6	0.0008	484	10	130	0.4	7.68	723	12.16	0.792	2.79	7.56	0.5	30.2	101	8.35	
09-Dec-08	MW26	0.73	0.0008	504	10	81	0.4	7.27	743	8.90	0.827	3.27	7.28	0.5	33.8	2000	1.25	
09-Dec-08	MW26D	0.79	0.0008	507	10	82	0.4	7.31	748	8.90	0.827	3.27	7.28	0.5	33.8	2000	1.25	
09-Dec-08	MW26	0.145	0.001	473	10	84	1	8.01	733	8.90	0.827	3.27	7.28	0.5	33.8	2000	1.25	
10-Dec-08	MW24	-999.9	0.0008	420	10	42	0.4	7.52	638	5.66	0.697	3.39	7.54	0.5	31.6	202	4.58	
10-Dec-08	MW24D	-999.9	0.0008	421	10	41	0.4	7.49	650	5.66	0.697	3.39	7.54	0.5	31.6	202	4.58	
10-Dec-08	MW24	-999.9	0.001	369	10	41	1	8.01	608	5.66	0.697	3.39	7.54	0.5	31.6	202	4.58	
09-Dec-08	MW7	0.0032	0.0008	774	10	150	0.4	7.38	1110	9.99	1.206	3.91	7.31	0.8	40.8	5999	7.6	



Date	SampleName	Sample Description	SampleComments	Sampler	SampleSource
01-Dec-08	EICH1	Domestic well	WQ: No odor, slight yellow, no sheen or effervescence, minor detritus	JV/KK	Well
08-Dec-08	MW23	Domestic well	WQ: Turbid, brown, earthy smell, no effervescence, no sheen.	JV	Well
08-Dec-08	MW27	Divide Creek monitoring well #27	WQ: Turbid, brown, earthy smell, no effervescence, no sheen.	JV	Well
10-Dec-08	DCS8	Divide Creek monitoring station 8	WQ: Clear, no odor, no effervescence, no sheen.	JV	Stream
10-Dec-08	DCS1	Divide Creek monitoring station 1	WQ: Turbid, greenish color, no odor, sheen, or effervescence, algae on creek bed	JV	Stream
10-Dec-08	DCS2	Divide Creek monitoring station 2	WQ: Slightly turbid, no odor, sheen, or effervescence.	JV	Stream
10-Dec-08	DCS3	Divide Creek monitoring station 3	WQ: Slightly turbid, no odor, sheen, or effervescence.	JV	Stream
10-Dec-08	DCS4	Divide Creek monitoring station 4	WQ: Slightly turbid to turbid, greenish color, no odor, sheen, or effervescence.	JV	Stream
10-Dec-08	DCS5	Divide Creek monitoring station 5	WQ: Slightly turbid to turbid, light greenish color, no odor, sheen, or effervescence.	JV	Stream
10-Dec-08	DCS5D	Divide Creek monitoring station 5 - duplicate sample	WQ: Slightly turbid to turbid, light greenish color, no odor, sheen, or effervescence.	JV	Stream
10-Dec-08	DCS5	Divide Creek monitoring station 5 - split sample	WQ: Slightly turbid to turbid, light greenish color, no odor, sheen, or effervescence.	JV	Stream
10-Dec-08	DCS6	Divide Creek monitoring station 6	WQ: Clear, no odor, sheen, or effervescence.	JV	Stream
10-Dec-08	DCS7	Divide Creek monitoring station 7	WQ: Clear, no odor, sheen, or effervescence.	JV	Stream
09-Dec-08	MW1	Divide Creek monitoring well #1	WQ: Turbid, muddy, brown-greyish, sulfur/earthy smell, no sheen, or noeffervescence.	JV	Well
09-Dec-08	MW6	Divide Creek monitoring well #6	WQ: Reddish-brown, slight sulfur smell, no sheen, no effervescence.	JV	Well
09-Dec-08	MW9	Divide Creek monitoring well #9	WQ: Grey, slight sulfur smell, no sheen, no effervescence.	JV	Well
09-Dec-08	MW11	Divide Creek monitoring well #11	WQ: Grey/black, slight sulfur smell, no sheen, no effervescence.	JV	Well
09-Dec-08	MW12	Divide Creek monitoring well #12	WQ: Yellow/lt. brown, no odor, no sheen, no effervescence.	JV	Well
09-Dec-08	MW14	Divide Creek monitoring well #14	WQ: Black, sulfur smell, no sheen, no effervescence.	JV	Well
09-Dec-08	MW16	Divide Creek monitoring well #16	WQ: Turbid-slightly turbid, muddy, earthy smell, no sheen, no effervescence.	JV	Well
09-Dec-08	MW17	Divide Creek monitoring well #17	WQ: Turbid, dark brown/blackish, sulfur smell, no sheen, no effervescence	JV	Well
08-Dec-08	MW18	Divide Creek monitoring well #18	WQ: Brown, earthy smell, no sheen, no effervescence.	JV	Well
08-Dec-08	MW22	Divide Creek monitoring well #22	WQ: Brown, earthy smell, no sheen, no effervescence.	JV	Well
09-Dec-08	MW8	Divide Creek monitoring well #8	WQ: Gray/Black, sulfur smell, no sheen, no effervescence.	JV	Well
08-Dec-08	MW20	Divide Creek monitoring well #20	WQ: Brown, slightly earthy odor, no sheen, no effervescence.	JV	Well
08-Dec-08	MW21	Divide Creek monitoring well #21	WQ: Brown, slightly fishy odor, no sheen, no effervescence.	JV	Well
10-Dec-08	MW2	Divide Creek monitoring well #2	WQ: Turbid, muddy, slight sulphur/earthy odor, no sheen or effervescence.	JV	Well
09-Dec-08	MW4	Divide Creek monitoring well #4	WQ: Light gray, sulfur smell, no sheen, no effervescence.	JV	Well
09-Dec-08	MW26	Divide Creek monitoring well #26	WQ: Turbid, reddish-brown, sulfur/slight sulfur-fishy smell, no sheen or effervescence.	JV	Well
09-Dec-08	MW26D	Divide Creek monitoring well #26 - duplicate sample	WQ: Turbid, reddish-brown, sulfur/slight sulfur-fishy smell, no sheen or effervescence.	JV	Well
09-Dec-08	MW26	Divide Creek monitoring well #26 - split sample	WQ: Turbid, reddish-brown, sulfur/slight sulfur-fishy smell, no sheen or effervescence.	JV	Well
10-Dec-08	MW24	Divide Creek monitoring well #24	WQ: Slightly turbid, lt. brown, no odor, sheen, or effervescence.	JV	Well
10-Dec-08	MW24D	Divide Creek monitoring well #24 - duplicate sample	WQ: Slightly turbid, lt. brown, no odor, sheen, or effervescence.	JV	Well
10-Dec-08	MW24	Divide Creek monitoring well #24 - split sample	WQ: Slightly turbid, lt. brown, no odor, sheen, or effervescence.	JV	Well
09-Dec-08	MW7	Divide Creek monitoring well #7	WQ: Turbid, dark brown/blackish, sulfur smell, no sheen, no effervescence	JV	Well

# **APPENDIX B**

## **Historical Groundwater Results**

## Appendix B

Summary of Historical Groundwater Analytical Results and Groundwater Elevations  
Encana, West Divide Creek Seep  
Garfield County, Colorado

Sample ID	Date	Benzene (ug/L)	Toluene (ug/L)	Ethylbenzene (ug/L)	Total Xylene (ug/L)	Methane (mg/L)	Estimated Thermogenic Methane (mg/L)	DTW (ft)	Groundwater Elevation (ft-msl)
MW-01	09-Jul-04	220	NA	NA	NA	11			
MW-01	22-Jul-04	470	NA	NA	NA	9.9		4.09	5954.70
MW-01	03-Aug-04	460	310	10	96	6		9.54	5949.25
MW-01	19-Aug-04	NS	NS	NS	NS	NS		9.96	5948.83
MW-01	15-Sep-04	330	130	8.1	53	8.6	6.9	10.32	5948.47
MW-01	13-Oct-04	190	31	5.3	18.3	7.4		9.87	5948.92
MW-01	09-Nov-04	88	<2	3.1	<2	5.3		9.70	5949.09
MW-01	14-Dec-04	35	<2	<2	<2	5.9		9.23	5949.56
MW-01	12-Jan-05	10	<2	<2	<2	4.7	3.5	8.63	5950.16
MW-01	09-Feb-05	14	<2	<2	<2	2.9	2.3	8.81	5949.98
MW-01	08-Mar-05	4.8	<2	<2	<2	2.6		8.96	5949.83
MW-01	12-Apr-05	<1	<2	<2	<2	0.38		5.73	5953.06
MW-01	10-May-05	<1	<2	<2	<2	0.38	0.3	5.19	5953.60
MW-01	08-Jun-05	<1	<2	<2	<2	<0.0008		3.03	5955.76
MW-01	12-Jul-05	<1	<2	<2	<2	<0.0008		4.13	5954.66
MW-01	09-Aug-05	<1	<2	<2	<2	0.11		5.36	5953.43
MW-01	12-Sep-05	<1	<2	<2	<2	0.068	0.0	6.18	5952.61
MW-01	11-Oct-05	<1	<2	<2	<2	0.17			
MW-01	08-Nov-05	<1	<2	<2	<2	0.12		6.47	5952.32
MW-01	08-Dec-05	<1	<2	<2	<2	0.086		6.72	5952.07
MW-01	11-Jan-06	<1	<2	<2	<2	0.055	0.0	6.31	5952.48
MW-01	15-Mar-06	<1	<2	<2	<2	0.0086		6.01	5952.78
MW-01	12-Apr-06	<1	<2	<2	<2	<0.0008		5.42	5953.37
MW-01	09-May-06	<1	<2	<2	<2	<0.0008		4.45	5954.34
MW-01	12-Jun-06	<1	<2	<2	<2	0.011			
MW-01	07-Sep-06	<1	<5	<2	<2	0.15		7.60	5951.19
MW-01	05-Dec-06	<1	<2	<2	<2	0.00085		6.68	5952.11
MW-01	13-Mar-07	<1	<2	<2	<2	0.0023		6.10	5952.69
MW-01	20-Jun-07	<1	<2	<2	<2	<0.0008			
MW-01	11-Sep-07	<0.5	<0.5	<0.5	<0.5	0.000144		7.95	5950.84
MW-01	11-Sep-07	<1	<2	<2	<2	0.001		7.95	5950.84
MW-01	18-Dec-07	<1	<2	<2	<2	0.0022		6.83	5951.96
MW-01	04-Mar-08	<1	<2	<2	<2	<0.0008		5.85	5952.94
MW-01	17-Jun-08	<1	<2	<2	<2	<0.0008		3.33	5955.46
MW-01	30-Sep-08	<1	4.1	<2	<2	<0.0008		7.50	5951.29
MW-01	09-Dec-08	<1	<2	<2	<2	0.18		6.65	5952.14
MW-02	09-Jul-04	240	NA	NA	NA	12			
MW-02	22-Jul-04	240	NA	NA	NA	12		5.60	5953.68
MW-02	03-Aug-04	420	400	<2	96	4.4		9.10	5950.18
MW-02	19-Aug-04	NS	NS	NS	NS	NS		9.00	5950.28
MW-02	15-Sep-04	340	240	10	95	11	9.5	9.02	5950.26
MW-02	13-Oct-04	370	110	9	78	5.8		8.70	5950.58
MW-02	09-Nov-04	390	<2	<2	<2	3.3		8.70	5950.58
MW-02	13-Dec-04	270	46	8.2	56.4	3.8		8.54	5950.74
MW-02	12-Jan-05	370	4.5	6.5	27.1	6.9	6.5	8.47	5950.81
MW-02	09-Feb-05	420	<10	<10	<10	3	2.6	4.09	5955.19
MW-02	09-Feb-05	420	2.4	8.6	43.5	2.6	3.0	11.95	5947.33
MW-02	09-Feb-05	340	<5	6.7	33	0.65		4.09	5955.19
MW-02	08-Mar-05	280	<10	<10	<10	4.4		8.82	5950.46
MW-02	12-Apr-05	360	<2	<2	<2	6.8		5.01	5954.27
MW-02	09-May-05	330	<10	<10	<10	5.9	5.4	4.49	5954.79
MW-02	08-Jun-05	98	<2	3.4	23.6	6.4		3.22	5956.06
MW-02	12-Jul-05	180	2.8	4.5	30.4	3.8		7.67	5951.61
MW-02	09-Aug-05	430	33	13	113	7.3		5.01	5954.27
MW-02	12-Sep-05	270	<10	<10	<10	4.9	4.3	5.31	5953.97

## Appendix B

Summary of Historical Groundwater Analytical Results and Groundwater Elevations  
Encana, West Divide Creek Seep  
Garfield County, Colorado

Sample ID	Date	Benzene (ug/L)	Toluene (ug/L)	Ethylbenzene (ug/L)	Total Xylene (ug/L)	Methane (mg/L)	Estimated Thermogenic Methane (mg/L)	DTW (ft)	Groundwater Elevation (ft-msl)
MW-02	11-Oct-05	350	<10	<10	<10	5.9			
MW-02	07-Nov-05	290	32	<10	<10	3.5			
MW-02	07-Dec-05	270	<10	<10	<10	5.1		5.12	5954.16
MW-02	07-Dec-05	290	35	8.1	49	8.4		5.12	5954.16
MW-02	07-Dec-05	290	<10	<10	<10	6.5		5.12	5954.16
MW-02	11-Jan-06	340	<2	8.8	62.5	9		5.13	5954.15
MW-02	11-Jan-06	174	<2	4.9	36.9	3.1		5.13	5954.15
MW-02	11-Jan-06	310	<2	8.5	63.9	8	6.8	5.13	5954.15
MW-02	14-Feb-06	219	<2	5.8	37.3	9.3		5.19	5954.09
MW-02	15-Mar-06	200	<2	4.8	26.8	0.013		4.98	5954.30
MW-02	12-Apr-06	210	<2	6.6	45.7	7.3		4.51	5954.77
MW-02	09-May-06	240	<2	7.2	53.6	4.1		4.05	5955.23
MW-02	12-Jun-06	280	<2	11	93	12			
MW-02	07-Sep-06	240	<25	<10	<10	7.1	5.7	9.05	5950.23
MW-02	05-Dec-06	260	<2	5.3	22.6	6.7	4.3	5.42	5953.86
MW-02	12-Mar-07	230	<2	5.8	37.8	7.8	6.1	5.20	5954.08
MW-02	12-Mar-07	250	<2	6.5	43.4	9.4		5.20	5954.08
MW-02	12-Mar-07	212	<2	8.05	51.43	0.0691		5.20	5954.08
MW-02	20-Jun-07	220	<2	5.3	36.1	6.1			
MW-02	20-Jun-07	190	NA	4.6	31.6	4.5			
MW-02	20-Jun-07	94.1	<0.25	5.5	43.49	0.979			
MW-02	12-Sep-07	260	<2	8.1	51.2	3.5	2.7	6.13	5953.15
MW-02	18-Dec-07	180	<2	4.3	29.8	7.4		5.42	5953.86
MW-02	03-Mar-08	120	<2	2.6	<2	5.8	3.6	4.91	5954.37
MW-02	03-Mar-08	186	<0.5	5.1	<0.5	1.86		4.91	5954.37
MW-02	17-Jun-08	230	<2	10	98	6.6	4.9	4.02	5955.26
MW-02	01-Oct-08	160	<2	4.6	27.8	4.7	3.5	6.40	5952.88
MW-02	10-Dec-08	140	<2	4	32	7.3	5.4	6.00	5953.28
MW-04	12-Jan-04	320	35	8.1	49	6.1			5963.41
MW-04	09-Jul-04	230	NA	NA	NA	11			
MW-04	22-Jul-04	440	NA	NA	NA	11		8.46	5954.95
MW-04	03-Aug-04	400	160	<2	87	6.7		8.60	5954.81
MW-04	15-Sep-04	240	59	6.7	60	27		8.41	5955.00
MW-04	15-Sep-04	320	76	9.5	80.5	9.2	7.4	8.41	5955.00
MW-04	15-Sep-04	330	76	9.1	77.1	8.6		8.41	5955.00
MW-04	14-Oct-04	210	<50	6.1	37	4.4		8.38	5955.03
MW-04	14-Oct-04	300	51	9	59	9.3		8.38	5955.03
MW-04	14-Oct-04	300	37	9	55.2	5.6		8.38	5955.03
MW-04	09-Nov-04	290	41	<2	<2	9.1		4.90	5958.51
MW-04	02-Dec-04	280	19	<10	<10	14			
MW-04	08-Dec-04	280	110	7.8	72	17			
MW-04	13-Dec-04	240	33	12	97	7.8		7.93	5955.48
MW-04	13-Dec-04	270	36	8.1	64.9	14		7.93	5955.48
MW-04	13-Dec-04	270	37	7.7	62.6	12		7.93	5955.48
MW-04	12-Jan-05	350	68	11	71.9	14	11.9	7.40	5956.01
MW-04	12-Jan-05	360	40	11	62.3	14		7.40	5956.01
MW-04	09-Feb-05	280	57	8.5	52.7	10	8.5	8.02	5955.39
MW-04	08-Mar-05	350	160	<10	79	9.8		8.02	5955.39
MW-04	12-Apr-05	130	33	<2	<2	8.9		8.39	5955.02
MW-04	12-Apr-05	130	52	<2	<2	10		8.39	5955.02
MW-04	12-Apr-05	280	<1200	<120	NA	8.7		8.39	5955.02
MW-04	09-May-05	310	66	11	16	10	8.6	7.23	5956.18
MW-04	09-May-05	320	77	11	16	11		7.23	5956.18
MW-04	08-Jun-05	180	17	4.7	4.3	12		7.25	5956.16
MW-04	11-Jul-05	0.69	<1200	<120	NA	<1		7.83	5955.58

## Appendix B

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Encana, West Divide Creek Seep  
Garfield County, Colorado

Sample ID	Date	Benzene (ug/L)	Toluene (ug/L)	Ethylbenzene (ug/L)	Total Xylene (ug/L)	Methane (mg/L)	Estimated Thermogenic Methane (mg/L)	DTW (ft)	Groundwater Elevation (ft-msl)
MW-04	11-Jul-05	170	40	3.3	38.7	7.8	6.4	7.83	5955.58
MW-04	11-Jul-05	180	32	3.8	34.9	6.1		7.83	5955.58
MW-04	09-Aug-05	270	41	<10	69	8.3		8.15	5955.26
MW-04	09-Aug-05	240	46	<10	65	8.5		8.15	5955.26
MW-04	09-Aug-05	170	29	2.2	62	2.7		8.15	5955.26
MW-04	12-Sep-05	260	7.6	8	74	8.8	7.1	8.22	5955.19
MW-04	11-Oct-05	220	5.1	6.8	66.4	7.3			
MW-04	08-Nov-05	300	<10	<10	96	8.2		8.03	5955.38
MW-04	07-Dec-05	230	<10	<10	<10	8.6		7.93	5955.48
MW-04	10-Jan-06	270	<2	8	73	8.5		7.98	5955.43
MW-04	10-Jan-06	96.7	<2	<2	37	8.3		7.98	5955.43
MW-04	10-Jan-06	270	<2	6.5	71	8.8	7.1	7.98	5955.43
MW-04	14-Feb-06	249	<2	9	73.6	8.8		7.98	5955.43
MW-04	15-Mar-06	260	<2	8.6	66.6	14		8.04	5955.37
MW-04	12-Apr-06	220	<2	8.6	49.9	9.3		7.10	5956.31
MW-04	09-May-06	150	2.5	6.3	40	3.7		6.98	5956.43
MW-04	12-Jun-06	220	<2	8.3	74	9.2			
MW-04	06-Sep-06	200	<2	7.3	68	10	8.2	8.41	5955.00
MW-04	05-Dec-06	200	<2	7	70.9	10	7.8	7.99	5955.42
MW-04	12-Mar-07	220	<2	7	67.2	9.8		7.85	5955.56
MW-04	12-Mar-07	200	NA	6	55.9	7.6		7.85	5955.56
MW-04	12-Mar-07	172	<0.25	6.73	69.28	0.0592		7.85	5955.56
MW-04	22-Jun-07	110	<2	<2	39.2	6.4			
MW-04	13-Sep-07	170	<2	4.8	57.9	5.6		8.52	5954.89
MW-04	18-Dec-07	170	<2	3.7	53.4	8.4		8.07	5955.34
MW-04	04-Mar-08	130	<2	3.3	31.6	8.5	6.4	7.70	5955.71
MW-04	17-Jun-08	85	2.3	<2	23	3.7	2.6	7.65	5955.76
MW-04	01-Oct-08	110	<2	<2	33.7	6.2	4.8	8.60	5954.81
MW-04	01-Oct-08	120	<2	<2	34.9	5		8.60	5954.81
MW-04	09-Dec-08	100	<2	<2	28.4	8.6	6.5	8.35	5955.06
MW-06	09-Jul-04	1.1	NA	NA	NA	0.011			
MW-06	22-Jul-04	0.023	NA	NA	NA	0.023		9.74	5950.20
MW-06	03-Aug-04	1.5	<2	<2	<2	0.083		9.89	5950.05
MW-06	15-Sep-04	<1	<2	<2	<2	0.38	0.4	9.67	5950.27
MW-06	14-Oct-04	<1	<2	<2	<2	0.14		9.48	5950.46
MW-06	10-Nov-04	<1	<2	<2	<2	0.057		9.60	5950.34
MW-06	14-Dec-04	<1	<2	<2	<2	0.054		9.24	5950.70
MW-06	14-Dec-04	<1	<2	<2	<2	0.4		9.24	5950.70
MW-06	14-Dec-04	<0.5	<5	<0.5	NA	0.071		9.24	5950.70
MW-06	13-Jan-05	<1	<2	<2	<2	0.056	0.0	8.87	5951.07
MW-06	09-Feb-05	<1	<2	<2	<2	0.023	0.0	9.06	5950.88
MW-06	08-Mar-05	3.1	<2	<2	<2	0.051		9.15	5950.79
MW-06	12-Apr-05	6.5	<2	<2	<2	0.092		6.59	5953.35
MW-06	10-May-05	<1	<2	<2	<2	0.18	0.2	5.82	5954.12
MW-06	08-Jun-05	1.3	<2	<2	<2	0.18		5.55	5954.39
MW-06	08-Jun-05	2.5	<2	<2	<2	0.22		5.55	5954.39
MW-06	08-Jun-05	2.2	<5	<0.5	NA	0.024		5.55	5954.39
MW-06	12-Jul-05	<1	<2	<2	<2	0.15			
MW-06	09-Aug-05	<1	<2	<2	<2	0.24		7.72	5952.22
MW-06	12-Sep-05	1.9	<5	<0.5	NA	<0.01		6.81	5953.13
MW-06	12-Sep-05	2	<2	<2	<2	0.12	0.0	6.81	5953.13
MW-06	12-Sep-05	1.9	<2	<2	<2	0.16		6.81	5953.13
MW-06	11-Oct-05	4.3	<2	<2	<2	4			
MW-06	08-Nov-05	3.7	<2	<2	<2	0.17			
MW-06	08-Nov-05	3.6	<2	<2	<2	0.17			

## Appendix B

### Summary of Historical Groundwater Analytical Results and Groundwater Elevations Encana, West Divide Creek Seep Garfield County, Colorado

Sample ID	Date	Benzene (ug/L)	Toluene (ug/L)	Ethylbenzene (ug/L)	Total Xylene (ug/L)	Methane (mg/L)	Estimated Thermogenic Methane (mg/L)	DTW (ft)	Groundwater Elevation (ft-msl)
MW-06	08-Nov-05	2.1	<5	<0.5	NA	0.41			
MW-06	07-Dec-05	1.6	<2	<2	<2	0.13		6.88	5953.06
MW-06	11-Jan-06	<1	<2	<2	<2	0.14	0.1	6.94	5953.00
MW-06	14-Feb-06	0.6	<0.5	<0.5	<0.5	0.128		6.91	5953.03
MW-06	14-Feb-06	<0.5	<1	<1	<1	0.077		6.91	5953.03
MW-06	14-Feb-06	<0.5	<1	<1	<1	0.15		6.91	5953.03
MW-06	15-Mar-06	<1	<2	<2	<2	0.092		6.89	5953.05
MW-06	12-Apr-06	1.1	<2	<2	<2	0.046		6.15	5953.79
MW-06	12-Apr-06	1	NA	NA	NA	0.034		6.15	5953.79
MW-06	12-Apr-06	1.12	<0.25	<0.25	<0.25	0.125		6.15	5953.79
MW-06	09-May-06	<1	<2	<2	<2	0.029		5.89	5954.05
MW-06	12-Jun-06	<1	<2	<2	<2	0.0026			
MW-06	07-Sep-06	<0.25	<0.25	<0.25	<0.25	0.00523		7.53	5952.41
MW-06	07-Sep-06	<1	<5	<2	<2	0.038		7.53	5952.41
MW-06	07-Sep-06	<1	NA	<2	<2	0.031		7.53	5952.41
MW-06	05-Dec-06	<1	<2	<2	<2	<0.0008		7.04	5952.90
MW-06	13-Mar-07	<1	<2	<2	<2	0.0021		6.85	5953.09
MW-06	20-Jun-07	<1	<2	<2	<2	<0.0008			
MW-06	12-Sep-07	<1	<2	<2	<2	<0.0008		7.95	5951.99
MW-06	17-Dec-07	<0.5	<5	<0.5	<2	0.00846		7.15	5952.79
MW-06	17-Dec-07	<1	<2	<2	<2	0.0081		7.15	5952.79
MW-06	17-Dec-07	<1	<2	<2	<2	0.008		7.15	5952.79
MW-06	03-Mar-08	<1	<2	<2	<2	0.0015		6.75	5953.19
MW-06	17-Jun-08	<1	<2	<2	<2	0.0031		6.20	5953.74
MW-06	30-Sep-08	<1	<2	<2	<2	<0.008		7.60	5952.34
MW-06	30-Sep-08	<1	<2	<2	<2	<0.008		7.60	5952.34
MW-06	09-Dec-08	<1	<2	<2	<2	0.0092	<0.0008	7.25	5952.69
MW-07	09-Jul-04	200	NA	NA	NA	0.67			5958.97
MW-07	22-Jul-04	110	NA	NA	NA	0.53		10.34	5948.63
MW-07	03-Aug-04	32	<2	<2	<2	0.73		10.46	5948.51
MW-07	15-Sep-04	56	<2	<2	<2	6		11.11	5947.86
MW-07	14-Oct-04	32	<2	<2	<2	0.78		10.70	5948.27
MW-07	10-Nov-04	16	<2	<2	<2	0.65		10.70	5948.27
MW-07	19-Nov-04	19	<2	<2	<2	0.49			
MW-07	23-Nov-04	17	<2	<2	<2	0.67			
MW-07	07-Dec-04	<1	<2	<2	<2	0.04			
MW-07	14-Dec-04	20	<2	<2	<2	0.55		10.24	5948.73
MW-07	13-Jan-05	16	<2	<2	<2	0.53		9.89	5949.08
MW-07	09-Feb-05	5.7	<2	<2	<2	0.47		9.91	5949.06
MW-07	08-Mar-05	4.5	<2	<2	<2	0.58		10.06	5948.91
MW-07	20-Apr-05	<1	<2	<2	<2	<0.0008			
MW-07	10-May-05	<1	<2	<2	<2	<0.0008		6.22	5952.75
MW-07	10-May-05	<1	<2	<2	<2	<0.0008		6.22	5952.75
MW-07	10-May-05	<0.5	<5	<0.5	NA	0.031		6.22	5952.75
MW-07	08-Jun-05	<1	<2	<2	<2	<0.0008		4.47	5954.50
MW-07	12-Jul-05	<1	<2	<2	<2	<0.0008			
MW-07	09-Aug-05	<1	<2	<2	<2	<0.0008		6.13	5952.84
MW-07	12-Sep-05	<1	<2	<2	<2	0.0015		6.62	5952.35
MW-07	11-Oct-05	<1	<2	<2	<2	0.0075			
MW-07	11-Oct-05	<1	<2	<2	<2	0.026			
MW-07	11-Oct-05	<0.5	<5	<0.5	NA	<0.01			
MW-07	08-Nov-05	<1	<2	<2	<2	0.0059			
MW-07	08-Dec-05	<1	<2	<2	<2	0.017		6.92	5952.05
MW-07	11-Jan-06	<1	<2	<2	<2	0.014		6.95	5952.02
MW-07	14-Feb-06	<0.5	<1	<0.5	<1	<0.002		9.08	5949.89



## Appendix B

### Summary of Historical Groundwater Analytical Results and Groundwater Elevations Encana, West Divide Creek Seep Garfield County, Colorado

Sample ID	Date	Benzene (ug/L)	Toluene (ug/L)	Ethylbenzene (ug/L)	Total Xylene (ug/L)	Methane (mg/L)	Estimated Thermogenic Methane (mg/L)	DTW (ft)	Groundwater Elevation (ft-msl)
MW-07	15-Mar-06	<1	<2	<2	<2	10		6.83	5952.14
MW-07	12-Apr-06	<1	<2	<2	<2	0.00092		6.23	5952.74
MW-07	09-May-06	<1	<2	<2	<2	0.036		5.67	5953.30
MW-07	12-Jun-06	<1	<2	<2	<2	0.0037			
MW-07	21-Jul-06	<1	<2	<2	<2	<0.0008			
MW-07	28-Jul-06	<1	<2	<2	<2	0.0012			
MW-07	04-Aug-06	<1	<2	<2	<2	<0.0008			
MW-07	11-Aug-06	<1	<2	<2	<2	<0.0008			
MW-07	16-Aug-06	<1	<2	<2	<2	0.0041		17.45	5941.52
MW-07	24-Aug-06	<1	<2	<2	<2	0.00092		7.72	5951.25
MW-07	31-Aug-06	<1	<2	<2	<2	0.0014		7.84	5951.13
MW-07	07-Sep-06	<1	<2	<2	<2	0.047		8.22	5950.75
MW-07	07-Sep-06	<0.25	<0.25	<0.25	<0.25	0.00163		8.22	5950.75
MW-07	13-Sep-06	<1	<2	<2	<2	0.0024		7.98	5950.99
MW-07	21-Sep-06	<0.25	<0.25	<0.25	<0.25	0.000762		7.93	5951.04
MW-07	21-Sep-06	<1	<2	<2	<2	0.002		7.93	5951.04
MW-07	27-Sep-06	<1	<2	<2	<2	0.004		7.82	5951.15
MW-07	06-Oct-06	<1	<2	<2	<2	<0.0008		7.88	5951.09
MW-07	12-Oct-06	<1	<2	<2	<2	0.0025		7.71	5951.26
MW-07	19-Oct-06	<1	<2	<2	<2	<0.0008		7.73	5951.24
MW-07	25-Oct-06	<1	<2	<2	<2	0.00082		7.62	5951.35
MW-07	01-Nov-06	<1	<2	<2	<2	0.0011		7.63	5951.34
MW-07	17-Nov-06	<1	<2	<2	<2	<0.0008		7.42	5951.55
MW-07	05-Dec-06	<1	<2	<2	<2	0.0011		7.37	5951.60
MW-07	03-Jan-07	<1	<2	<2	<2	<0.0008			
MW-07	17-Jan-07	<1	<2	<2	<2	<0.0008			
MW-07	05-Feb-07	<1	<2	<2	<2	<0.0008			
MW-07	22-Feb-07	<1	<2	<2	<2	0.0016		6.92	5952.05
MW-07	07-Mar-07	<1	<2	<2	<2	0.00094		6.75	5952.22
MW-07	13-Mar-07	<1	<2	<2	<2	0.0079		6.80	5952.17
MW-07	26-Mar-07	<1	<2	<2	<2	<0.0008			
MW-07	11-Apr-07	<1	<2	<2	<2	0.001			
MW-07	25-Apr-07	<0.5	<5	<0.5	<2	0.0016			
MW-07	08-May-07	<0.5	<5	<0.5	<2	<0.01			
MW-07	20-Jun-07	<0.25	<0.25	<0.25	<0.25	-88.8			
MW-07	20-Jun-07	<1	<2	<2	<2	<0.0008			
MW-07	20-Jun-07	<1	<2	<2	<2	<0.0008			
MW-07	12-Sep-07	<1	<2	<2	<2	<0.0008		8.21	5950.76
MW-07	17-Dec-07	<1	<2	<2	<2	<0.0008		5.72	5953.25
MW-07	03-Mar-08	<1	<2	<2	<2	<0.0008		6.84	5952.13
MW-07	17-Jun-08	<1	<2	<2	<2	<0.0008		4.53	5954.44
MW-07	09-Dec-08	<1	<2	<2	<2	0.0032		7.60	5951.37
MW-08	09-Jul-04	65	NA	NA	NA	3.4			
MW-08	22-Jul-04	210	NA	NA	NA	2.9		12.45	5946.84
MW-08	03-Aug-04	250	<2	<2	<2	2.8		11.98	5947.31
MW-08	15-Sep-04	200	<2	<2	<2	4.1		13.54	5945.75
MW-08	14-Oct-04	140	<2	<2	<3	3.1		13.18	5946.11
MW-08	10-Nov-04	120	<5	<0.5	NA	3.1		12.80	5946.49
MW-08	10-Nov-04	150	<2	<2	<2	6.5		12.80	5946.49
MW-08	10-Nov-04	140	<2	<2	<2	7.2		12.80	5946.49
MW-08	14-Dec-04	140	<2	<2	<2	7.4		12.00	5947.29
MW-08	13-Jan-05	100	<2	<2	<2	5.7		12.12	5947.17
MW-08	09-Feb-05	58	<2	<2	<2	3.5		11.79	5947.50
MW-08	08-Mar-05	42	<2	<2	<2	3.3		11.86	5947.43
MW-08	12-Apr-05	30	<2	<2	<2	3.2		8.64	5950.65

Summary of Historical Groundwater Analytical Results and Groundwater Elevations  
Encana, West Divide Creek Seep  
Garfield County, Colorado

Sample ID	Date	Benzene (ug/L)	Toluene (ug/L)	Ethylbenzene (ug/L)	Total Xylene (ug/L)	Methane (mg/L)	Estimated Thermogenic Methane (mg/L)	DTW (ft)	Groundwater Elevation (ft-msl)
MW-08	10-May-05	4.8	<2	<2	<2	0.82		7.99	5951.30
MW-08	09-Jun-05	1.8	<2	<2	<2	0.23		6.18	5953.11
MW-08	12-Jul-05	<1	<2	<2	<2	0.12		7.92	5951.37
MW-08	12-Jul-05	120	<5	<0.5	NA	3.1		7.92	5951.37
MW-08	12-Jul-05	<1	<2	<2	<2	0.043		7.92	5951.37
MW-08	09-Aug-05	<1	<2	<2	<2	0.045		8.15	5951.14
MW-08	12-Sep-05	<1	<2	<2	<2	0.22		9.07	5950.22
MW-08	12-Oct-05	<0.5	<5	<0.5	NA	<0.01			
MW-08	12-Oct-05	<1	<2	<2	<2	0.25			
MW-08	12-Oct-05	<1	<2	<2	<3	0.19			
MW-08	08-Nov-05	<1	<2	<2	<4	0.11			
MW-08	08-Dec-05	<1	<2	<2	<5	0.08		8.86	5950.43
MW-08	11-Jan-06	<1	<2	<2	<6	0.13		8.99	5950.30
MW-08	14-Feb-06	<0.5	<1	<1	<1	0.206		9.02	5950.27
MW-08	15-Mar-06	<1	<2	<2	<2	0.23		8.89	5950.40
MW-08	12-Apr-06	<1	<2	<2	<2	0.11		8.34	5950.95
MW-08	11-May-06	<0.5	<0.5	<0.5	<0.5	0.0649		7.50	5951.79
MW-08	11-May-06	<1	<2	<2	<2	0.032		7.50	5951.79
MW-08	11-May-06	<1	<2	<2	<2	0.017		7.50	5951.79
MW-08	12-Jun-06	<1	<2	<2	<2	0.13			
MW-08	21-Jul-06	<1	<2	<2	<2	0.0024			
MW-08	28-Jul-06	<1	<2	<2	<2	0.14			
MW-08	04-Aug-06	<1	<2	<2	<2	0.18			
MW-08	11-Aug-06	<1	<2	<2	<2	0.1			
MW-08	16-Aug-06	<1	<2	<2	<2	0.2		25.03	5934.26
MW-08	24-Aug-06	<1	<2	<2	<2	0.34		9.89	5949.40
MW-08	31-Aug-06	<1	<2	<2	<2	0.7		10.01	5949.28
MW-08	07-Sep-06	<1	<2	<2	<2	0.47		10.11	5949.18
MW-08	13-Sep-06	<1	<2	<2	<2	0.74		10.16	5949.13
MW-08	21-Sep-06	<1	<2	<2	<2	1.1		10.11	5949.18
MW-08	27-Sep-06	<1	<2	<2	<2	0.58		10.04	5949.25
MW-08	06-Oct-06	<1	<2	<2	<2	0.45		10.25	5949.04
MW-08	12-Oct-06	<1	<2	<2	<2	0.39		9.84	5949.45
MW-08	19-Oct-06	<1	<2	<2	<2	0.42		9.75	5949.54
MW-08	25-Oct-06	<1	<2	<2	<2	0.34		10.00	5949.29
MW-08	01-Nov-06	<1	<2	<2	<2	0.28		9.49	5949.80
MW-08	17-Nov-06	<1	<2	<2	<2	0.0043		9.32	5949.97
MW-08	05-Dec-06	<1	<2	<2	<2	0.045		9.42	5949.87
MW-08	03-Jan-07	<1	<2	<2	<2	0.00092			
MW-08	17-Jan-07	<1	<2	<2	<2	0.0034			
MW-08	05-Feb-07	<1	<2	<2	<2	0.12			
MW-08	22-Feb-07	<1	<2	<2	<2	0.22		9.12	5950.17
MW-08	07-Mar-07	<1	<2	<2	<2	0.48		9.06	5950.23
MW-08	13-Mar-07	<1	<2	<2	<2	0.18		9.11	5950.18
MW-08	26-Mar-07	<1	<2	<2	<2	<0.0008			
MW-08	11-Apr-07	<1	<2	<2	<2	0.085			
MW-08	25-Apr-07	<0.5	<5	<0.5	<2	0.0019			
MW-08	08-May-07	<0.5	<5	<0.5	<2	0.06			
MW-08	20-Jun-07	<1	<2	<2	<2	<0.0008			
MW-08	12-Sep-07	<1	<2	<2	<2	<0.0008		10.53	5948.76
MW-08	17-Dec-07	<1	<2	<2	<2	0.13		9.62	5949.67
MW-08	03-Mar-08	<1	<2	<2	<2	0.14		8.92	5950.37
MW-08	17-Jun-08	<1	<2	<2	<2	0.001		5.70	5953.59
MW-08	30-Sep-08	<1	<2	<2	<2	<0.008		10.10	5949.19
MW-08	09-Dec-08	<1	<2	<2	<2	0.11		9.00	5950.29

## Appendix B

Summary of Historical Groundwater Analytical Results and Groundwater Elevations  
Encana, West Divide Creek Seep  
Garfield County, Colorado

Sample ID	Date	Benzene (ug/L)	Toluene (ug/L)	Ethylbenzene (ug/L)	Total Xylene (ug/L)	Methane (mg/L)	Estimated Thermogenic Methane (mg/L)	DTW (ft)	Groundwater Elevation (ft-msl)
MW-09	09-Jul-04	120	NA	NA	NA	11			
MW-09	22-Jul-04	130	NA	NA	NA	10		4.88	5960.25
MW-09	03-Aug-04	150	50	2.8	21.3	9.5		4.85	5960.28
MW-09	15-Sep-04	210	140	6.2	59	11	9.0	4.61	5960.52
MW-09	13-Oct-04	280	230	9.8	96	9.9		4.15	5960.98
MW-09	09-Nov-04	320	170	11	104	9		4.05	5961.08
MW-09	09-Nov-04	280	160	9.8	100	14		4.05	5961.08
MW-09	09-Nov-04	310	160	10	98	10		4.05	5961.08
MW-09	13-Dec-04	350	130	13	127	14		4.06	5961.07
MW-09	12-Jan-05	290	110	12	113	16	13.3	4.18	5960.95
MW-09	09-Feb-05	260	48	<10	86	9.4	8.5	4.53	5960.60
MW-09	08-Mar-05	210	22	<10	<10	11		4.65	5960.48
MW-09	12-Apr-05	210	23	<2	<2	11		4.63	5960.50
MW-09	09-May-05	210	32	9.4	81	12	10.3	4.25	5960.88
MW-09	08-Jun-05	210	39	<2	<2	12		4.25	5960.88
MW-09	11-Jul-05	160	18	5.1	50.5	9.3	7.8	4.58	5960.55
MW-09	08-Aug-05	120	12	<10	<10	7.8		4.52	5960.61
MW-09	12-Sep-05	78	3.6	3	31.4	9.7	7.6	4.49	5960.64
MW-09	11-Oct-05	55	5.5	2.4	24.8	8.7		4.32	5960.81
MW-09	07-Nov-05	35	<2	<2	<2	7.6			
MW-09	08-Dec-05	38	<2	<2	<2	7.7		4.51	5960.62
MW-09	10-Jan-06	40	<2	<2	<2	12	9.9	4.61	5960.52
MW-09	14-Feb-06	34.4	<1	1.2	12.4	6.3		4.63	5960.50
MW-09	15-Mar-06	30	<2	<2	<2	14		5.02	5960.11
MW-09	11-Apr-06	21	<2	<2	<2	9		4.39	5960.74
MW-09	10-May-06	16	<2	<2	<2	9.8	7.8	4.28	5960.85
MW-09	12-Jun-06	8.6	<2	<2	<2	10			
MW-09	06-Sep-06	8.9	<2	<2	<2	9.3	7.1	4.41	5960.72
MW-09	06-Dec-06	7.2	<2	<2	<2	10	7.6	4.08	5961.05
MW-09	13-Mar-07	7.5	<2	<2	<2	8.3	6.5	4.45	5960.68
MW-09	30-Apr-07	4.8	<5	<0.5	<2	-88.8			
MW-09	21-Jun-07	<1	<2	<2	<2	5.1			
MW-09	13-Sep-07	4.2	<2	<2	<2	5.4		4.49	5960.64
MW-09	18-Dec-07	2.7	<2	<2	<2	7.1		3.82	5961.31
MW-09	05-Mar-08	1	<2	<2	<2	7.2	5.0	4.05	5961.08
MW-09	17-Jun-08	2.2	<2	<2	<2	6.2	4.2	4.39	5960.74
MW-09	30-Sep-08	<1	<2	<2	<2	5.0	3.5	4.20	5960.93
MW-09	09-Dec-08	1.1	<2	<2	<2	8.6		4.46	5960.67
MW-11	09-Jul-04	2	NA	NA	NA	0.16			
MW-11	22-Jul-04	<1	NA	NA	NA	0.25		4.50	5965.16
MW-11	03-Aug-04	<1	<2	<2	<2	0.23		4.49	5965.17
MW-11	15-Sep-04	<1	<2	<2	<2	0.12		4.29	5965.37
MW-11	13-Oct-04	<1	<2	<2	<2	0.017		4.10	5965.56
MW-11	09-Nov-04	<1	<2	<2	<2	0.14		4.10	5965.56
MW-11	12-Jan-05	<1	<2	<2	<2	0.18		3.98	5965.68
MW-11	09-Feb-05	<1	<2	<2	<2	0.12		4.13	5965.53
MW-11	08-Mar-05	<1	<2	<2	<2	0.11		4.45	5965.21
MW-11	12-Apr-05	<1	<2	<2	<2	0.14		4.21	5965.45
MW-11	09-May-05	<1	<2	<2	<2	0.13		3.94	5965.72
MW-11	08-Jun-05	<1	<2	<2	<2	0.13		3.85	5965.81
MW-11	11-Jul-05	<1	<2	<2	<2	0.1		5.25	5964.41
MW-11	08-Aug-05	<1	<2	<2	<2	0.079		4.11	5965.55
MW-11	12-Sep-05	<1	<2	<2	<2	0.13		4.22	5965.44
MW-11	11-Oct-05	<1	<2	<2	<2	0.1		3.98	5965.68
MW-11	07-Nov-05	<1	<2	<2	<2	0.061			

Summary of Historical Groundwater Analytical Results and Groundwater Elevations  
Encana, West Divide Creek Seep  
Garfield County, Colorado

Sample ID	Date	Benzene (ug/L)	Toluene (ug/L)	Ethylbenzene (ug/L)	Total Xylene (ug/L)	Methane (mg/L)	Estimated Thermogenic Methane (mg/L)	DTW (ft)	Groundwater Elevation (ft-msl)
MW-11	08-Dec-05	<1	<2	<2	<2	0.046		4.07	5965.59
MW-11	10-Jan-06	<1	<2	<2	<2	0.037		4.02	5965.64
MW-11	14-Feb-06	<0.5	<1	<1	<1	0.017		4.02	5965.64
MW-11	15-Mar-06	<1	<2	<2	<2	0.06		4.50	5965.16
MW-11	11-Apr-06	<1	<2	<2	<2	0.041		4.05	5965.61
MW-11	10-May-06	<1	<2	<2	<2	0.035		4.08	5965.58
MW-11	12-Jun-06	<1	<2	<2	<2	0.043			
MW-11	06-Sep-06	<1	<2	<2	<2	0.081		4.15	5965.51
MW-11	06-Dec-06	<1	<2	<2	<2	0.0039		3.98	5965.68
MW-11	13-Mar-07	<1	<2	<2	<2	0.02		3.89	5965.77
MW-11	21-Jun-07	<1	<2	<2	<2	0.018			
MW-11	12-Sep-07	<1	<2	<2	<2	0.028		4.30	5965.36
MW-11	05-Mar-08	<1	<2	<2	<2	0.027		4.09	5965.57
MW-11	17-Jun-08	<1	<2	<2	<2	0.012		4.03	5965.63
MW-11	30-Sep-08	<1	<2	<2	<2	0.0017		4.10	5965.56
MW-11	09-Dec-08	<1	<2	<2	<2	0.016		4.20	5965.46
MW-12	09-Jul-04	0.86	NA	NA	NA	2.5			5963.60
MW-12	22-Jul-04	2	NA	NA	NA	3.6		6.02	5957.58
MW-12	03-Aug-04	4.6	<2	<2	<2	3.8			
MW-12	15-Sep-04	2.7	<2	<2	<2	4.9	4.1	5.81	5957.79
MW-12	13-Oct-04	<1	<2	<2	<2	0.17		5.13	5958.47
MW-12	13-Oct-04	<1	<2	<2	NA	0.12		5.13	5958.47
MW-12	13-Oct-04	<1	<2	<2	<2	<0.0008		5.13	5958.47
MW-12	09-Nov-04	<1	<2	<2	<2	0.069		4.90	5958.70
MW-12	13-Dec-04	<1	<2	<2	<2	0.046		3.85	5959.75
MW-12	12-Jan-05	<1	<2	<2	<2	1.3	0.8	4.10	5959.50
MW-12	09-Feb-05	<1	<2	<2	<2	2	1.2	4.78	5958.82
MW-12	08-Mar-05	<1	<2	<2	<2	2.6		4.53	5959.07
MW-12	12-Apr-05	<1	<2	<2	<2	0.94		4.63	5958.97
MW-12	09-May-05	<1	<2	<2	<2	0.43	0.4	4.03	5959.57
MW-12	08-Jun-05	<1	<2	<2	<2	0.65		4.39	5959.21
MW-12	11-Jul-05	3.8	<2	<2	<2	3	2.7	2.86	5960.74
MW-12	08-Aug-05	7.1	<2	<2	<2	4.3		3.02	5960.58
MW-12	12-Sep-05	8.4	<2	<2	<2	6.4	5.1	2.82	5960.78
MW-12	11-Oct-05	<1	<2	<2	<2	0.26		1.94	5961.66
MW-12	07-Nov-05	<1	<2	<2	<2	0.11			
MW-12	08-Dec-05	<1	<2	<2	<2	0.25		1.81	5961.79
MW-12	10-Jan-06	<1	<2	<2	<2	0.24	0.2	1.89	5961.71
MW-12	14-Feb-06	0.6	<1	<1	<1	0.53		2.03	5961.57
MW-12	15-Mar-06	<1	<2	<2	<2	1.6		1.85	5961.75
MW-12	15-Mar-06	<0.5	<0.5	<0.5	<0.5	1.51		1.85	5961.75
MW-12	11-Apr-06	<1	<2	<2	<2	1.2		4.10	5959.50
MW-12	10-May-06	<1	<2	<2	<2	0.95	0.5	1.25	5962.35
MW-12	12-Jun-06	1.2	<2	<2	<2	2.1			
MW-12	06-Sep-06	5.3	<2	<2	<2	7.1	4.1	3.31	5960.29
MW-12	06-Dec-06	<1	<2	<2	<2	0.21	0.2	1.52	5962.08
MW-12	13-Mar-07	<1	<2	<2	<2	0.046	0.0	0.00	5963.60
MW-12	21-Jun-07	<1	<2	<2	<2	0.016			
MW-12	12-Sep-07	5.4	<2	<2	<2	3.7	2.8	3.08	5960.52
MW-12	18-Dec-07	<1	<2	<2	<2	0.18		1.92	5961.68
MW-12	05-Mar-08	<1	<2	<2	<2	<0.0008		0.00	5963.60
MW-12	17-Jun-08	<1	<2	<2	<2	0.0011	<0.0011	2.36	5961.24
MW-12	30-Sep-08	2.4	<2	<2	<2	2.8	1.5	3.30	5960.30
MW-12	09-Dec-08	<1	<2	<2	<2	0.13	<0.0008	2.10	5961.50

## Appendix B

Summary of Historical Groundwater Analytical Results and Groundwater Elevations  
Encana, West Divide Creek Seep  
Garfield County, Colorado

Sample ID	Date	Benzene (ug/L)	Toluene (ug/L)	Ethylbenzene (ug/L)	Total Xylene (ug/L)	Methane (mg/L)	Estimated Thermogenic Methane (mg/L)	DTW (ft)	Groundwater Elevation (ft-msl)
MW-13	13-Dec-04	<1	<2	<2	<2	0.15		2.49	5961.11
MW-13	21-Sep-04	<1	<2	<2	<2	0.061			
MW-13	13-Oct-04	<1	<2	<2	<2	0.011		2.89	5969.11
MW-13	09-Nov-04	<1	<2	<2	<2	0.015		2.80	5969.20
MW-13	13-Dec-04	<1	<2	<2	<2	0.029		2.49	5969.51
MW-13	12-Jan-05	<1	<2	<2	<2	0.069		2.24	5969.76
MW-13	09-Feb-05	<1	<2	<2	<2	0.029		2.79	5969.21
MW-13	08-Mar-05	<1	<2	<2	<2	0.037		2.81	5969.19
MW-13	12-Apr-05	<1	<2	<2	<2	0.039		3.12	5968.88
MW-13	09-May-05	<1	<2	<2	<2	0.04		2.42	5969.58
MW-13	08-Jun-05	<1	<2	<2	<2	0.071		2.41	5969.59
MW-13	12-Jun-06	<1	<2	<2	<2	2.8			
MW-13	07-Sep-06	<1	<5	<2	<2	1.4		1.40	5970.60
MW-13	06-Dec-06	<1	<2	<2	<2	0.32		0.58	5971.42
MW-13	13-Mar-07	<1	<2	<2	<2	0.014		0.00	
MW-13	21-Jun-07	<1	<2	<2	<2	0.33			
MW-13	12-Sep-07	<1	<2	<2	<2	0.43		1.05	5970.95
MW-13	17-Jun-08								flooded
MW-13	29-Sep-08							2.65	
MW-13	08-Dec-08								frozen
MW-14	21-Sep-04	150	9.6	2.9	19.8	1.4			
MW-14	13-Oct-04	140	12	3.6	27.3	4.8	4.3	6.57	5958.49
MW-14	09-Nov-04	150	8.8	4.7	32.4	6.7		7.02	5958.04
MW-14	13-Dec-04	300	12	7.5	44.2	13		7.01	5958.05
MW-14	12-Jan-05	230	9.7	4.6	30.7	9.4	8.0	6.98	5958.08
MW-14	09-Feb-05	270	13	<10	<10	9.6	8.0	7.24	5957.82
MW-14	08-Mar-05	180	12	3.1	21.5	12		8.05	5957.01
MW-14	12-Apr-05	74	5.2	<2	<2	11		6.97	5958.09
MW-14	09-May-05	8	<2	<2	<2	8.2	6.6	6.19	5958.87
MW-14	08-Jun-05	6	<2	<2	<2	10		6.38	5958.68
MW-14	11-Jul-05	16	<2	<2	<2	4.8	3.8	4.15	5960.91
MW-14	08-Aug-05	<1	<2	<2	<2	3.6		4.25	5960.81
MW-14	12-Sep-05	<1	<2	<2	<2	3.6	2.3	4.25	5960.81
MW-14	11-Oct-05	<1	<2	<2	<2	4.2		4.17	5960.89
MW-14	07-Nov-05	<1	<2	<2	<2	3.9			
MW-14	08-Dec-05	1.6	<2	<2	<2	3.9		4.59	5960.47
MW-14	10-Jan-06	<1	<2	<2	<2	7.4	5.6	4.71	5960.35
MW-14	14-Feb-06	1.9	<1	<1	<1	8.3		4.71	5960.35
MW-14	15-Mar-06	<1	<2	<2	<2	5.8		4.71	5960.35
MW-14	11-Apr-06	<1	<2	<2	<2	1.2		4.55	5960.51
MW-14	10-May-06	<1	<2	<2	<2	2.9	1.9	4.28	5960.78
MW-14	12-Jun-06	<1	<2	<2	<2	7			
MW-14	06-Sep-06	<1	<2	<2	<2	9	6.0	4.22	5960.84
MW-14	06-Dec-06	12	<2	<2	<2	9.1	6.4	4.18	5960.88
MW-14	13-Mar-07	<1	<2	<2	<2	7.6	5.3	4.45	5960.61
MW-14	30-Apr-07	<1	<5	<0.5	<2	-88.8			
MW-14	21-Jun-07	<1	<2	<2	<2	3.4			
MW-14	13-Sep-07	<1	<2	<2	<2	2.8		5.04	5960.02
MW-14	18-Dec-07	1.2	<2	<2	<2	3.2		4.75	5960.31
MW-14	05-Mar-08	<1	<2	<2	<2	5.1	3.1	4.98	5960.08
MW-14	17-Jun-08	<1	<2	<2	<2	3.7	2.1	4.95	5960.11
MW-14	30-Sep-08	<1	<2	<2	<2	2.9	2.0	5.51	5959.55
MW-14	09-Dec-08	<1	<2	<2	<2	4.7	2.9	5.20	5959.86
MW-15	21-Sep-04	<1	<2	<2	<2	0.37			

## Appendix B

Summary of Historical Groundwater Analytical Results and Groundwater Elevations  
Encana, West Divide Creek Seep  
Garfield County, Colorado

Sample ID	Date	Benzene (ug/L)	Toluene (ug/L)	Ethylbenzene (ug/L)	Total Xylene (ug/L)	Methane (mg/L)	Estimated Thermogenic Methane (mg/L)	DTW (ft)	Groundwater Elevation (ft-msl)
MW-15	14-Oct-04	<1	<2	<2	<2	0.047		2.80	5954.99
MW-15	10-Nov-04	<1	<2	<2	<2	0.034		2.85	5954.94
MW-15	14-Dec-04	<1	<2	<2	<2	0.017		2.54	5955.25
MW-15	12-Jan-05	<1	<2	<2	<2	0.012		2.50	5955.29
MW-15	08-Mar-05	<1	<2	<2	<2	0.0071		3.62	5954.17
MW-15	12-Apr-05	<1	<2	<2	<2	0.021		2.82	5954.97
MW-15	11-May-05	<1	<2	<2	<2	0.031		2.47	5955.32
MW-15	08-Jun-05	<1	<2	<2	<2	0.059		2.36	5955.43
MW-15	12-Jul-05	<1	<2	<2	<2	0.0055		0.17	5957.62
MW-15	09-Aug-05	<1	<2	<2	<2	0.0069		0.42	5957.37
MW-15	12-Sep-05	<1	<2	<2	<2	0.007		0.36	5957.43
MW-15	11-Oct-05	<1	<2	<2	<2	0.058		0.42	5957.37
MW-15	08-Nov-05	<1	<2	<2	<2	0.025		0.44	5957.35
MW-15	08-Dec-05	<1	<2	<2	<2	0.038		0.56	5957.23
MW-15	11-Jan-06	<1	<2	<2	<2	0.044		0.68	5957.11
MW-15	15-Feb-06	<1	<2	<2	<2	0.026		0.58	5957.21
MW-15	15-Mar-06	<1	<2	<2	<2	0.027		0.40	5957.39
MW-15	11-Apr-06	<1	<2	<2	<2	0.012		0.50	5957.29
MW-15	10-May-06	<1	<2	<2	<2	0.01		0.51	5957.28
MW-15	12-Jun-06	<1	<2	<2	<2	0.01			
MW-15	06-Sep-06	<1	<2	<2	<2	0.036		0.00	5957.79
MW-15	06-Dec-06	<1	<2	<2	<2	0.015		0.00	5957.79
MW-15	13-Mar-07	<1	<2	<2	<2	0.012		0.10	5957.69
MW-15	21-Jun-07	<1	<2	<2	<2	0.015			
MW-15	11-Sep-07	<1	<2	<2	<2	<0.0008		0.00	5957.79
MW-15	18-Dec-07	<1	<2	<2	<2	0.0018		0.05	5957.74
MW-15	17-Jun-08	<1	<2	<2	<2	0.0072		2.12	5955.67
MW-15	29-Sep-08								Flooded
MW-15	08-Dec-08								Frozen
MW-16	21-Sep-04	<b>9.5</b>	<2	<2	<2	1.1			
MW-16	13-Oct-04	4.7	<2	<2	<2	0.85		7.79	5952.66
MW-16	09-Nov-04	2.7	<2	<2	<2	0.34		7.29	5953.16
MW-16	14-Dec-04	4.9	<2	<2	<2	0.8		6.92	5953.53
MW-16	12-Jan-05	<b>7.6</b>	<2	<2	<2	1.1		7.20	5953.25
MW-16	09-Feb-05	<b>6.2</b>	<2	<2	<2	0.72	0.5	6.96	5953.49
MW-16	08-Mar-05	<b>6.1</b>	<2	<2	<2	0.83		7.27	5953.18
MW-16	08-Mar-05	<b>6.3</b>	<2	<2	<2	0.66		7.27	5953.18
MW-16	08-Mar-05	<b>6.2</b>	<5	<0.5	NA	1.7		7.27	5953.18
MW-16	12-Apr-05	1.4	<2	<2	<2	0.57		7.39	5953.06
MW-16	09-May-05	1.9	<2	<2	<2	0.35		5.81	5954.64
MW-16	08-Jun-05	1.7	<2	<2	<2	0.37		4.20	5956.25
MW-16	12-Jul-05	4	<2	<2	<2	0.62		2.65	5957.80
MW-16	09-Aug-05	<b>12</b>	<2	<2	<2	1.1		4.83	5955.62
MW-16	12-Sep-05	<b>6.4</b>	<2	<2	<2	1.3		5.45	5955.00
MW-16	11-Oct-05	2.8	<2	<2	<2	0.91			
MW-16	08-Nov-05	4.1	<2	<2	<2	0.62			
MW-16	07-Dec-05	3.4	<2	<2	<2	0.67		4.73	5955.72
MW-16	11-Jan-06	2.1	<2	<2	<2	1.1		5.21	5955.24
MW-16	14-Feb-06	<0.5	<1	<1	<1	0.58		5.25	5955.20
MW-16	15-Mar-06	<1	<2	<2	<2	0.78		5.38	5955.07
MW-16	12-Apr-06	<1	<2	<2	<2	0.59		4.77	5955.68
MW-16	09-May-06	<1	<2	<2	<2	0.2		3.43	5957.02
MW-16	12-Jun-06	<1	<2	<2	<2	0.042			
MW-16	07-Sep-06	3.7	<5	<2	<2	1.7		6.41	5954.04
MW-16	05-Dec-06	<1	<2	<2	<2	1.1		5.21	5955.24



## Appendix B

Summary of Historical Groundwater Analytical Results and Groundwater Elevations  
Encana, West Divide Creek Seep  
Garfield County, Colorado

Sample ID	Date	Benzene (ug/L)	Toluene (ug/L)	Ethylbenzene (ug/L)	Total Xylene (ug/L)	Methane (mg/L)	Estimated Thermogenic Methane (mg/L)	DTW (ft)	Groundwater Elevation (ft-msl)
MW-16	13-Mar-07	<1	<2	<2	<2	0.54	0.1	5.50	5954.95
MW-16	20-Jun-07	<1	<2	<2	<2	0.17			
MW-16	12-Sep-07	<1	<2	<2	<2	0.8	0.3	6.45	5954.00
MW-16	18-Dec-07	<1	<2	<2	<2	1.2		8.50	5951.95
MW-16	04-Mar-08	<1	<2	<2	<2	1.2		5.60	5954.85
MW-16	17-Jun-08	<1	<2	<2	<2	0.021	<0.021	2.69	5957.76
MW-16	30-Sep-08	<1	<2	<2	<2	1.3	0.4	6.70	5953.75
MW-16	09-Dec-08	<1	<2	<2	<2	1.2	0.1	5.20	5955.25
MW-17	21-Sep-04	<1	<2	<2	46.6	8.3			
MW-17	13-Oct-04	230	110	4.1	39.8	7.5	6.2	10.48	5948.01
MW-17	09-Nov-04	140	7.2	3	20.7	7.6		9.60	5948.89
MW-17	14-Dec-04	110	<2	2.1	16.1	9.4		8.76	5949.73
MW-17	12-Jan-05	56	<2	<2	<2	7.1	5.1	8.84	5949.65
MW-17	09-Feb-05	76	<2	<2	<2	6.6	4.9	8.69	5949.80
MW-17	08-Mar-05	63	<2	<2	<2	6.8		8.84	5949.65
MW-17	12-Apr-05	44	<2	<2	<2	6.6		6.19	5952.30
MW-17	10-May-05	16	<2	<2	<2	1.9	1.0	4.90	5953.59
MW-17	08-Jun-05	1.4	<2	<2	<2	1.6		2.43	5956.06
MW-17	12-Jul-05	<1	<2	<2	<2	0.64		3.28	5955.21
MW-17	09-Aug-05	19	<2	<2	<2	2.7		5.53	5952.96
MW-17	12-Sep-05	110	3.6	<2	<2	5.3	3.3	7.02	5951.47
MW-17	11-Oct-05	72	<2	<2	<2	4.7			
MW-17	08-Nov-05	31	<2	<2	<2	3.2			
MW-17	07-Dec-05	31	<2	<2	<2	3.1		6.58	5951.91
MW-17	11-Jan-06	30	<2	<2	<2	3.2	1.8	6.88	5951.61
MW-17	14-Feb-06	25.6	<1	<1	<1	2.5		6.88	5951.61
MW-17	15-Mar-06	19	<2	<2	<2	3.5		6.55	5951.94
MW-17	12-Apr-06	12	<2	<2	<2	3		5.85	5952.64
MW-17	09-May-06	2.8	<2	<2	<2	1.4		4.20	5954.29
MW-17	12-Jun-06	<1	<2	<2	<2	2.6			
MW-17	07-Sep-06	24	<5	<2	<2	3.5	2.2	8.27	5950.22
MW-17	05-Dec-06	23	<2	<2	<2	2.2	1.2	7.31	5951.18
MW-17	13-Mar-07	66	<2	<2	<2	5.6	0.6	6.65	5951.84
MW-17	20-Jun-07	<1	<2	<2	<2	<0.0008			
MW-17	12-Sep-07	30	<2	<2	<2	2	1.2	9.68	5948.81
MW-17	18-Dec-07	16	<2	<2	<2	2		7.59	5950.90
MW-17	03-Mar-08	6.7	<2	<2	<2	1	0.5	6.90	5951.59
MW-17	17-Jun-08	<1	<2	<2	<2	<0.0008	<0.0008	2.66	5955.83
MW-17	30-Sep-08	31	<2	<2	<2	1.9	1.1	8.20	5950.29
MW-17	09-Dec-08	21	<2	<2	<2	1.9	1.0	6.75	5951.74
MW-18	21-Sep-04	<1	<2	<2	<2	0.74			
MW-18	14-Oct-04	<1	<2	<2	<2	0.89	0.3	6.75	5945.68
MW-18	10-Nov-04	<1	<2	<2	<2	1.6		6.80	5945.63
MW-18	14-Dec-04	<1	<2	<2	<2	1.1		6.63	5945.80
MW-18	13-Jan-05	<1	<2	<2	<2	1.1	0.4		
MW-18	09-Feb-05	<1	<2	<2	<2	0.71	0.2	6.77	5945.66
MW-18	09-Mar-05	<1	<2	<2	<2	0.69		6.81	5945.62
MW-18	13-Apr-05	<1	<2	<2	<2	0.71		6.98	5945.45
MW-18	10-May-05	<1	<2	<2	<2	0.19	0.1	6.11	5946.32
MW-18	09-Jun-05	<1	<2	<2	<2	0.058		3.55	5948.88
MW-18	12-Jul-05	<1	<2	<2	<2	0.02			
MW-18	09-Aug-05	<1	<2	<2	<2	0.66		4.26	5948.17
MW-18	13-Sep-05	<1	<2	<2	<2	0.3	0.1	4.35	5948.08
MW-18	12-Oct-05	<1	<2	<2	<2	1.1			

## Appendix B

### Summary of Historical Groundwater Analytical Results and Groundwater Elevations Encana, West Divide Creek Seep Garfield County, Colorado

Sample ID	Date	Benzene (ug/L)	Toluene (ug/L)	Ethylbenzene (ug/L)	Total Xylene (ug/L)	Methane (mg/L)	Estimated Thermogenic Methane (mg/L)	DTW (ft)	Groundwater Elevation (ft-msl)
MW-18	09-Nov-05	<1	<2	<2	<2	1.1		4.06	5948.37
MW-18	08-Dec-05	<1	<2	<2	<2	0.76		3.93	5948.50
MW-18	08-Dec-05	<1	<2	<2	<2	0.68		3.93	5948.50
MW-18	08-Dec-05	<0.5	<5	<0.5	NA	0.8		3.93	5948.50
MW-18	11-Jan-06	<1	<2	<2	<2	0.6	0.2	3.72	5948.71
MW-18	15-Feb-06	<1	<2	<2	<2	1.2		4.12	5948.31
MW-18	15-Mar-06	<1	<2	<2	<2	1.5		3.94	5948.49
MW-18	12-Apr-06	<1	<2	<2	<2	0.46		3.30	5949.13
MW-18	11-May-06	<1	<2	<2	<2	0.25	0.1	3.33	5949.10
MW-18	13-Jun-06	<0.5	<0.5	<0.5	<0.5	1.46			
MW-18	13-Jun-06	<1	<2	<2	<2	1.4			
MW-18	06-Sep-06	<1	<2	<2	<2	0.99	0.4	4.58	5947.85
MW-18	05-Dec-06	<1	<2	<2	<2	0.0057	0.0	4.02	5948.41
MW-18	13-Mar-07	<1	<2	<2	<2	0.0034	0.0	3.10	5949.33
MW-18	22-Jun-07	<1	<2	<2	<2	0.026			
MW-18	11-Sep-07	<1	<2	<2	<2	<0.0008		3.85	5948.58
MW-18	18-Dec-07	<1	<2	<2	<2	<0.0008		3.35	5949.08
MW-18	04-Mar-08	<1	<2	<2	<2	<0.0008		3.15	5949.28
MW-18	17-Jun-08	<1	<2	<2	<2	0.15		3.78	5948.65
MW-18	30-Sep-08	<1	<2	<2	<2	<0.0008		4.50	5947.93
MW-18	08-Dec-08	<1	<2	<2	<2	0.034		3.40	5949.03
MW-19	21-Sep-04	<1	2.4	<2	<2	1.6			
MW-19	13-Oct-04	<1	7.8	<2	<2	0.34		2.94	5966.50
MW-19	09-Nov-04	<1	10	<2	<2	4		4.20	5965.24
MW-19	13-Dec-04	<1	14	<2	<2	3.9		3.42	5966.02
MW-19	12-Jan-05	<1	9	<2	<2	2.6		3.32	5966.12
MW-19	08-Mar-05	<1	13	<2	<2	3.7		4.77	5964.67
MW-19	12-Apr-05	<1	<2	<2	<2	2.2		3.67	5965.77
MW-19	09-May-05	<1	9	<2	<2	1		3.37	5966.07
MW-19	08-Jun-05	<1	<2	<2	<2	2		2.71	5966.73
MW-19	11-Jul-05	<1	2.7	<2	<2	1.2		4.51	5964.93
MW-19	08-Aug-05	<1	5.7	<2	<2	1.7		2.83	5966.61
MW-19	12-Sep-05	<1	2.7	<2	<2	2.1		2.78	5966.66
MW-19	11-Oct-05	<1	3.1	<2	<2	2.2		2.63	5966.81
MW-19	07-Nov-05	<1	<2	<2	<2	2			
MW-19	11-Apr-06	<1	<2	<2	<2	0.95		4.05	5965.39
MW-19	10-May-06	<1	4.5	<2	<2	1.1		3.18	5966.26
MW-19	12-Jun-06	<1	<2	<2	<2	1.3			5969.44
MW-19	17-Jun-08								Flooded
MW-19	29-Sep-08								Lost
MW-19	08-Dec-08								Frozen
MW-20	02-Sep-04	<1	<2	<2	<2	0.89			
MW-20	14-Oct-04	<1	<2	<2	<2	0.36		11.90	5941.98
MW-20	10-Nov-04	<1	<2	<2	<2	0.048		11.75	5942.13
MW-20	14-Dec-04	<1	<2	<2	<2	0.0078		11.12	5942.76
MW-20	13-Jan-05	<1	<2	<2	<2	0.0039			
MW-20	09-Feb-05	<1	<2	<2	<2	0.00092		10.54	5943.34
MW-20	09-Mar-05	<1	<2	<2	<2	0.0008		10.33	5943.55
MW-20	13-Apr-05	<1	<2	<2	<2	0.0011		10.23	5943.65
MW-20	10-May-05	<1	<2	<2	<2	0.002		9.83	5944.05
MW-20	09-Jun-05	<1	<2	<2	<2	0.0092		7.12	5946.76
MW-20	12-Jul-05	<1	<2	<2	<2	0.053			
MW-20	09-Aug-05	<1	<2	<2	<2	0.017		1.48	5952.40
MW-20	13-Sep-05	<1	<2	<2	<2	0.002		9.28	5944.60

## Appendix B

### Summary of Historical Groundwater Analytical Results and Groundwater Elevations Encana, West Divide Creek Seep Garfield County, Colorado

Sample ID	Date	Benzene (ug/L)	Toluene (ug/L)	Ethylbenzene (ug/L)	Total Xylene (ug/L)	Methane (mg/L)	Estimated Thermogenic Methane (mg/L)	DTW (ft)	Groundwater Elevation (ft-msl)
MW-20	12-Oct-05	<1	<2	<2	<2	<0.0008		9.11	5944.77
MW-20	08-Nov-05	<1	<2	<2	<2	0.00084			
MW-20	08-Dec-05	<1	<2	<2	<2	<0.0008		8.27	5945.61
MW-20	11-Jan-06	<1	<2	<2	<2	<0.0008		8.06	5945.82
MW-20	15-Feb-06	<1	<2	<2	<2	<0.0008		7.96	5945.92
MW-20	15-Mar-06	<1	<2	<2	<2	<0.0008		7.73	5946.15
MW-20	11-Apr-06	<1	<2	<2	<2	<0.0008		7.35	5946.53
MW-20	11-May-06	<1	<2	<2	<2	0.00086		7.01	5946.87
MW-20	13-Jun-06	<1	<2	<2	<2	0.00855			
MW-20	21-Jul-06	<1	<2	<2	<2	<0.0008			
MW-20	28-Jul-06	<1	<2	<2	<2	0.0011			
MW-20	04-Aug-06	<1	<2	<2	<2	<0.0008			
MW-20	11-Aug-06	<1	<2	<2	<2	<0.0008			
MW-20	16-Aug-06	<1	<2	<2	<2	0.0033			
MW-20	24-Aug-06	<1	<2	<2	<2	0.0022		9.71	5944.17
MW-20	31-Aug-06	<1	<2	<2	<2	0.0011		9.85	5944.03
MW-20	06-Sep-06	<1	<2	<2	<2	0.011		10.00	5943.88
MW-20	13-Sep-06	<1	<2	<2	<2	<0.0008		10.04	5943.84
MW-20	21-Sep-06	<1	<2	<2	<2	0.0015		9.96	5943.92
MW-20	27-Sep-06	<1	<2	<2	<2	0.00096		9.82	5944.06
MW-20	06-Oct-06	<1	<2	<2	<2	<0.0008		9.88	5944.00
MW-20	12-Oct-06	<1	<2	<2	<2	<0.0008		9.54	5944.34
MW-20	19-Oct-06	<1	<2	<2	<2	<0.0008		9.43	5944.45
MW-20	25-Oct-06	<1	<2	<2	<2	<0.0008		9.64	5944.24
MW-20	01-Nov-06	<1	<2	<2	<2	<0.0008		9.25	5944.63
MW-20	17-Nov-06	<1	<2	<2	<2	<0.0008		9.03	5944.85
MW-20	06-Dec-06	<1	<2	<2	<2	<0.0008		7.92	5945.96
MW-20	03-Jan-07	<1	<2	<2	<2	<0.0008			
MW-20	17-Jan-07	<1	<2	<2	<2	<0.0008			
MW-20	05-Feb-07	<1	<2	<2	<2	<0.0008			
MW-20	22-Feb-07	<1	<2	<2	<2	<0.0008		8.32	5945.56
MW-20	07-Mar-07	<1	<2	<2	<2	<0.0008		8.19	5945.69
MW-20	13-Mar-07	<1	<2	<2	<2	<0.0008		8.20	5945.68
MW-20	26-Mar-07	<1	<2	<2	<2	0.0012			
MW-20	11-Apr-07	<1	<2	<2	<2	<0.0008			
MW-20	25-Apr-07	<0.5	<5	<0.5	<2	<0.01			
MW-20	08-May-07	<0.5	<5	<0.5	<2	<0.01			
MW-20	22-Jun-07	<1	<2	<2	<2	0.0012			
MW-20	11-Sep-07	<1	<2	<2	<2	<0.0008		10.15	5943.73
MW-20	18-Dec-07	<1	<2	<2	<2	<0.0008		8.25	5945.63
MW-20	04-Mar-08	<1	<2	<2	<2	<0.0008		7.69	5946.19
MW-20	17-Jun-08	<1	<2	<2	<2	<0.0008		6.23	5947.65
MW-20	30-Sep-08	<1	<2	<2	<2	0.0035		9.75	5944.13
MW-20	08-Dec-08	<1	<2	<2	<2	0.0011		8.61	5945.27
MW-21	02-Sep-04	<1	<2	<2	<2	0.0087			
MW-21	14-Oct-04	<1	<2	<2	<2	0.0049		25.20	5944.25
MW-21	10-Nov-04	<1	<2	<2	<2	0.0011		24.80	5944.65
MW-21	14-Dec-04	<1	<2	<2	<2	0.0016		23.54	5945.91
MW-21	13-Jan-05	<1	<2	<2	<2	<0.0009			
MW-21	09-Feb-05	<1	<2	<2	<2	0.00086		23.68	5945.77
MW-21	09-Mar-05	<1	<2	<2	<2	<0.0008		23.56	5945.89
MW-21	13-Apr-05	<1	<2	<2	<2	<0.0008		23.33	5946.12
MW-21	10-May-05	<1	<2	<2	<2	<0.0008		22.79	5946.66
MW-21	09-Jun-05	<1	<2	<2	<2	0.0019		21.93	5947.52
MW-21	13-Jul-05	<1	<2	<2	<2	0.0028		22.24	5947.21

## Appendix B

Summary of Historical Groundwater Analytical Results and Groundwater Elevations  
Encana, West Divide Creek Seep  
Garfield County, Colorado

Sample ID	Date	Benzene (ug/L)	Toluene (ug/L)	Ethylbenzene (ug/L)	Total Xylene (ug/L)	Methane (mg/L)	Estimated Thermogenic Methane (mg/L)	DTW (ft)	Groundwater Elevation (ft-msl)
MW-21	09-Aug-05	<1	<2	<2	<2	0.0011		23.42	5946.03
MW-21	13-Sep-05	<1	<2	<2	<2	0.0011		24.43	5945.02
MW-21	12-Oct-05	<1	<2	<2	<2	0.0015		24.34	5945.11
MW-21	08-Nov-05	<1	<2	<2	<2	0.0013		23.89	5945.56
MW-21	08-Dec-05	<1	<2	<2	<2	0.00092		23.52	5945.93
MW-21	12-Jan-06	<1	<2	<2	<2	0.0013		23.37	5946.08
MW-21	15-Feb-06	<1	<2	<2	<2	0.0013		23.22	5946.23
MW-21	15-Mar-06	<1	<2	<2	<2	0.01		20.33	5949.12
MW-21	11-Apr-06	<1	<2	<2	<2	0.0022		22.48	5946.97
MW-21	11-May-06	<1	<2	<2	<2	0.0017		22.00	5947.45
MW-21	13-Jun-06	<1	<2	<2	<2	0.0032			
MW-21	21-Jul-06	<1	<2	<2	<2	0.0016			
MW-21	28-Jul-06	<1	<2	<2	<2	0.0019			
MW-21	04-Aug-06	<1	<2	<2	<2	0.001			
MW-21	11-Aug-06	<1	<2	<2	<2	0.0011			
MW-21	16-Aug-06	<1	<2	<2	<2	0.0023			
MW-21	24-Aug-06	<1	<2	<2	<2	0.0026		24.79	5944.66
MW-21	31-Aug-06	<1	<2	<2	<2	0.0036		24.87	5944.58
MW-21	06-Sep-06	<1	<2	<2	<2	0.0057		24.95	5944.50
MW-21	13-Sep-06	<1	<2	<2	<2	0.0031		25.31	5944.14
MW-21	21-Sep-06	<1	<2	<2	<2	0.0036		25.31	5944.14
MW-21	27-Sep-06	<1	<2	<2	<2	0.0039		25.08	5944.37
MW-21	06-Oct-06	<1	<2	<2	<2	0.0019		25.21	5944.24
MW-21	12-Oct-06	<1	<2	<2	<2	<0.0008		24.85	5944.60
MW-21	19-Oct-06	<1	<2	<2	<2	<0.0008		24.75	5944.70
MW-21	25-Oct-06	<1	<2	<2	<2	<0.0008		24.68	5944.77
MW-21	01-Nov-06	<1	<2	<2	<2	<0.0008		24.53	5944.92
MW-21	17-Nov-06	<1	<2	<2	<2	<0.0008		24.61	5944.84
MW-21	06-Dec-06	<1	<2	<2	<2	0.0019		24.26	5945.19
MW-21	03-Jan-07	<1	<2	<2	<2	<0.0008			
MW-21	17-Jan-07	<1	<2	<2	<2	<0.0008			
MW-21	05-Feb-07	<1	<2	<2	<2	<0.0008			
MW-21	22-Feb-07	<1	<2	<2	<2	<0.0008		23.68	5945.77
MW-21	07-Mar-07	<1	<2	<2	<2	0.00086		23.82	5945.63
MW-21	13-Mar-07	<1	<2	<2	<2	<0.0008		23.60	5945.85
MW-21	26-Mar-07	<1	<2	<2	<2	<0.0008			
MW-21	11-Apr-07	<1	<2	<2	<2	<0.0008			
MW-21	25-Apr-07	<0.5	<5	<0.5	<2	<0.0008			
MW-21	08-May-07	<0.5	<5	<0.5	<2	<0.0008			
MW-21	22-Jun-07	<1	<2	<2	<2	0.00095			
MW-21	11-Sep-07	<1	<2	<2	<2	0.0012		24.95	5944.50
MW-21	18-Dec-07	<1	<2	<2	<2	0.0038		23.81	5945.64
MW-21	04-Mar-08	<1	<2	<2	<2	<0.0008		23.12	5946.33
MW-21	17-Jun-08	<1	<2	<2	<2	<0.0008		20.80	5948.65
MW-21	30-Sep-08	<1	<2	<2	<2	0.0015		25.00	5944.45
MW-21	08-Dec-08	<1	<2	<2	<2	<0.0008		23.90	5945.55
MW-22	21-Sep-04	<1	<2	<2	<2	0.025			
MW-22	14-Oct-04	<1	<2	<2	<2	0.061		13.50	5943.58
MW-22	10-Nov-04	<1	<2	<2	<2	0.023		13.20	5943.88
MW-22	14-Dec-04	<1	<2	<2	<2	0.069		12.42	5944.66
MW-22	13-Jan-05	<1	<2	<2	<2	0.03			
MW-22	09-Feb-05	<1	<2	<2	<2	0.0087		11.95	5945.13
MW-22	09-Mar-05	<1	<2	<2	<2	0.0043		11.89	5945.19
MW-22	09-Mar-05	<1	<2	<2	<2	0.0034		11.89	5945.19
MW-22	09-Mar-05	<0.5	<5	<0.5	<2	<0.01		11.89	5945.19

## Appendix B

Summary of Historical Groundwater Analytical Results and Groundwater Elevations  
Encana, West Divide Creek Seep  
Garfield County, Colorado

Sample ID	Date	Benzene (ug/L)	Toluene (ug/L)	Ethylbenzene (ug/L)	Total Xylene (ug/L)	Methane (mg/L)	Estimated Thermogenic Methane (mg/L)	DTW (ft)	Groundwater Elevation (ft-msl)
MW-22	13-Apr-05	<1	<2	<2	<2	0.0013		11.78	5945.30
MW-22	10-May-05	<1	<2	<2	<2	<0.0008		11.14	5945.94
MW-22	09-Jun-05	<1	<2	<2	<2	0.0066		8.11	5948.97
MW-22	12-Jul-05	<1	<2	<2	<2	0.021		8.64	5948.44
MW-22	09-Aug-05	<1	<2	<2	<2	0.0084		9.65	5947.43
MW-22	13-Sep-05	<1	<2	<2	<2	0.0025		10.56	5946.52
MW-22	12-Oct-05	<1	<2	<2	<2	0.004		10.56	5946.52
MW-22	08-Nov-05	<1	<2	<2	<2	0.0042		10.16	5946.92
MW-22	08-Dec-05	<1	<2	<2	<2	<0.0008		9.82	5947.26
MW-22	11-Jan-06	<1	<2	<2	<2	0.007		9.06	5948.02
MW-22	15-Feb-06	<1	<2	<2	<2	0.0015		9.79	5947.29
MW-22	15-Mar-06	<1	<2	<2	<2	0.009		9.51	5947.57
MW-22	11-Apr-06	<1	<2	<2	<2	0.0052		9.05	5948.03
MW-22	11-May-06	<1	<2	<2	<2	<0.0008		9.43	5947.65
MW-22	13-Jun-06	<1	<2	<2	<2	0.0014			
MW-22	06-Sep-06	<1	<2	<2	<2	0.049		10.00	5947.08
MW-22	05-Dec-06	<1	<2	<2	<2	0.00085		10.56	5946.52
MW-22	13-Mar-07	<1	<2	<2	<2	<0.0008		9.95	5947.13
MW-22	22-Jun-07	<1	<2	<2	<2	<0.0008			
MW-22	11-Sep-07	<1	<2	<2	<2	<0.0008		11.45	5945.63
MW-22	18-Dec-07	<1	<2	<2	<2	<0.0008		9.92	5947.16
MW-22	04-Mar-08	<1	<2	<2	<2	<0.0008		9.43	5947.65
MW-22	17-Jun-08	<1	<2	<2	<2	<0.0008		7.21	5949.87
MW-22	30-Sep-08	<1	<2	<2	<2	<0.0008		11.55	5945.53
MW-22	08-Dec-08	<1	<2	<2	<2	<0.0008		10.25	5946.83
MW-23	23-Sep-04	<1	<2	<2	<2	3.7			
MW-23	14-Oct-04	<1	<2	<2	<2	5.5		17.05	5935.64
MW-23	10-Nov-04	<1	<2	<2	<2	6.1		17.20	5935.49
MW-23	14-Dec-04	<1	<2	<2	<2	6.6		15.71	5936.98
MW-23	13-Jan-05	<1	<2	<2	<2	7.2		16.02	5936.67
MW-23	10-Feb-05	<1	<2	<2	<2	4.3	0.0		
MW-23	09-Mar-05	<1	<2	<2	<2	4.1		16.58	5936.11
MW-23	13-Apr-05	<1	<2	<2	<2	7.5		16.08	5936.61
MW-23	11-May-05	<1	<2	<2	<2	4		14.51	5938.18
MW-23	09-Jun-05	<1	<2	<2	<2	4.9		13.15	5939.54
MW-23	13-Jul-05	<1	<2	<2	<2	3.4		13.33	5939.36
MW-23	10-Aug-05	<1	<2	<2	<2	3.6		15.14	5937.55
MW-23	12-Sep-05	<1	<2	<2	<2	4.4		16.93	5935.76
MW-23	11-Oct-05	<1	<2	<2	<2	3.3			
MW-23	09-Nov-05	<1	<2	<2	<2	3.5			
MW-23	08-Dec-05	<1	<2	<2	<2	3.2		16.08	5936.61
MW-23	12-Jan-06	<1	<2	<2	<2	3		16.16	5936.53
MW-23	15-Feb-06	<1	<2	<2	<2	5.5		16.03	5936.66
MW-23	16-Mar-06	<1	<2	<2	<2	7.3		16.15	5936.54
MW-23	11-Apr-06	<1	<2	<2	<2	5.3		14.80	5937.89
MW-23	11-May-06	<1	<2	<2	<2	4.6		13.15	5939.54
MW-23	13-Jun-06	<1	<2	<2	<2	0.92			
MW-23	21-Jul-06	<1	<2	<2	<2	2.4			
MW-23	28-Jul-06	<1	<2	<2	<2	3.6			
MW-23	04-Aug-06	<1	<2	<2	<2	4.2			
MW-23	11-Aug-06	<1	<2	<2	<2	4			
MW-23	16-Aug-06	<1	<2	<2	<2	3.3			
MW-23	24-Aug-06	<1	<2	<2	<2	5.4			
MW-23	31-Aug-06	<1	<2	<2	<2	5		17.39	5935.30
MW-23	06-Sep-06	<1	<2	<2	<2	2.9		17.29	5935.40

## Appendix B

### Summary of Historical Groundwater Analytical Results and Groundwater Elevations Encana, West Divide Creek Seep Garfield County, Colorado

Sample ID	Date	Benzene (ug/L)	Toluene (ug/L)	Ethylbenzene (ug/L)	Total Xylene (ug/L)	Methane (mg/L)	Estimated Thermogenic Methane (mg/L)	DTW (ft)	Groundwater Elevation (ft-msl)
MW-23	13-Sep-06	<1	<2	<2	<2	5.5		17.36	5935.33
MW-23	21-Sep-06	<1	<2	<2	<2	4.8		17.45	5935.24
MW-23	27-Sep-06	<1	<2	<2	<2	4		17.22	5935.47
MW-23	06-Oct-06	<1	<2	<2	<2	4.6		17.18	5935.51
MW-23	12-Oct-06	<1	<2	<2	<2	5.7		17.21	5935.48
MW-23	19-Oct-06	<1	<2	<2	<2	4.2		16.64	5936.05
MW-23	25-Oct-06	<1	<2	<2	<2	3.9		16.89	5935.80
MW-23	01-Nov-06	<1	<2	<2	<2	3.1		16.31	5936.38
MW-23	17-Nov-06	<1	<2	<2	<2	1.6		16.25	5936.44
MW-23	06-Dec-06	<1	<2	<2	<2	1.2		16.32	5936.37
MW-23	03-Jan-07	<1	<2	<2	<2	2.3			
MW-23	17-Jan-07	<1	<2	<2	<2	1.7			
MW-23	05-Feb-07	<1	<2	<2	<2	2.2			
MW-23	22-Feb-07	<1	<2	<2	<2	4		15.68	5937.01
MW-23	07-Mar-07	<1	<2	<2	<2	3.4		15.34	5937.35
MW-23	13-Mar-07	<1	<2	<2	<2	3.4	0.2	15.30	5937.39
MW-23	26-Mar-07	<1	<2	<2	<2	3.6			
MW-23	11-Apr-07	<1	<2	<2	<2	2.2			
MW-23	25-Apr-07	<0.5	<5	<2	<2	3.2			
MW-23	08-May-07	<0.5	<5	<2	<2	2.1			
MW-23	22-Jun-07	<1	<2	<2	<2	2.3			
MW-23	10-Sep-07	<1	<2	<2	<2	3.6		17.29	5935.40
MW-23	18-Dec-07	<1	<2	<2	<2	4.5		16.65	5936.04
MW-23	04-Mar-08	<1	<2	<2	<2	1.3		16.17	5936.52
MW-23	17-Jun-08	<1	<2	<2	<2	0.0012		12.16	5940.53
MW-23	29-Sep-08	<1	<2	<2	<2	0.72		17.10	5935.59
MW-23	08-Dec-08	<1	<2	<2	<2	0.45		14.77	5937.92
MW-24	21-Sep-04	<1	<2	<2	<2	<0.0008			
MW-24	14-Oct-04	<1	<2	<2	<2	0.00082		5.25	5949.66
MW-24	10-Nov-04	<1	<2	<2	<2	<0.0008		6.00	5948.91
MW-24	14-Dec-04	<1	<2	<2	<2	<0.0008		6.54	5948.37
MW-24	13-Jan-05	<1	<2	<2	<2	<0.0008			
MW-24	10-Feb-05	<1	<2	<2	<2	<0.0008			
MW-24	09-Mar-05	<1	<2	<2	<2	<0.0008		6.95	5947.96
MW-24	13-Apr-05	<1	<2	<2	<2	<0.0008		7.28	5947.63
MW-24	11-May-05	<1	<2	<2	<2	<0.0008		2.64	5952.27
MW-24	09-Jun-05	<1	<2	<2	<2	<0.0008		7.08	5947.83
MW-24	13-Jul-05	<1	<2	<2	<2	<0.0008			
MW-24	10-Aug-05	<1	<2	<2	<2	<0.0008		5.02	5949.89
MW-24	10-Aug-05	<1	<2	<2	<2	<0.0008		5.02	5949.89
MW-24	10-Aug-05	<0.5	<5	<0.5	1.9	<0.01		5.02	5949.89
MW-24	12-Sep-05	<1	<2	<2	<2	<0.0008		5.35	5949.56
MW-24	12-Oct-05	<1	<2	<2	<2	<0.0008		5.83	5949.08
MW-24	09-Nov-05	<1	<2	<2	<2	<0.0008			
MW-24	09-Nov-05	<0.5	<5	<0.5	NA	<0.01			
MW-24	09-Nov-05	<1	<2	<2	<2	<0.0008			
MW-24	08-Dec-05	<1	<2	<2	<2	<0.0008		5.82	5949.09
MW-24	10-Jan-06	<1	<2	<2	<2	<0.0008		5.88	5949.03
MW-24	15-Feb-06	<1	<2	<2	<2	<0.0008		6.18	5948.73
MW-24	15-Feb-06	<1	<2	<2	<2	<0.0008		6.18	5948.73
MW-24	15-Feb-06	<0.5	<0.5	<0.5	<0.5	<0.0034		6.18	5948.73
MW-24	16-Mar-06	<1	<2	<2	<2	0.002		6.45	5948.46
MW-24	13-Apr-06	<1	<2	<2	<2	<0.0008		6.13	5948.78
MW-24	11-May-06	<1	<2	<2	<2	<0.0008		6.78	5948.13
MW-24	13-Jun-06	<1	<2	<2	<2	<0.0008			



## Appendix B

### Summary of Historical Groundwater Analytical Results and Groundwater Elevations Encana, West Divide Creek Seep Garfield County, Colorado

Sample ID	Date	Benzene (ug/L)	Toluene (ug/L)	Ethylbenzene (ug/L)	Total Xylene (ug/L)	Methane (mg/L)	Estimated Thermogenic Methane (mg/L)	DTW (ft)	Groundwater Elevation (ft-msl)
MW-24	06-Sep-06	<1	<2	<2	<2	<0.0008		5.23	5949.68
MW-24	06-Dec-06	<1	<2	<2	<2	<0.0008		5.36	5949.55
MW-24	06-Dec-06	<0.25	<0.25	<0.25	<0.25	0.00028		5.36	5949.55
MW-24	12-Mar-07	<1	<2	<2	<2	<0.0008		5.80	5949.11
MW-24	22-Jun-07	<1	<2	<2	<2	<0.0008			
MW-24	10-Sep-07	<1	<2	<2	<2	0.021		5.15	5949.76
MW-24	18-Dec-07	<1	<2	<2	<2	<0.0008		5.41	5949.50
MW-24	05-Mar-08	<1	<2	<2	<2	<0.0008		5.01	5949.90
MW-24	17-Jun-08	<1	<2	<2	<2	<0.0008		6.15	5948.76
MW-24	01-Oct-08	<1	<2	<2	<2	0.004		4.85	5950.06
MW-24	10-Dec-08	<1	<2	<2	<2	<0.0008		4.58	5950.33
MW-24	10-Dec-08	<1	<2	<2	<2	<0.0008		4.58	5950.33
MW-24	10-Dec-08	<1	<1	<1	<1	<0.001		4.58	5950.33
MW-25	21-Sep-04	<1	<2	<2	<2	0.093			
MW-25	13-Oct-04	<1	<2	<2	<2	0.029		2.57	5969.22
MW-25	09-Nov-04	<1	<2	<2	<2	0.06		3.30	5968.49
MW-25	13-Dec-04	<1	<2	<2	<2	0.087		2.54	5969.25
MW-25	08-Mar-05	<1	<2	<2	<2	0.17		4.02	5967.77
MW-25	12-Apr-05	<1	<2	<2	<2	0.065		4.74	5967.05
MW-25	09-May-05	<1	<2	<2	<2	0.08		2.89	5968.90
MW-25	08-Jun-05	<1	<2	<2	<2	0.067		2.08	5969.71
MW-25	11-Jul-05	<1	<2	<2	<2	0.041			
MW-25	08-Aug-05	<1	<2	<2	<2	0.06		2.51	5969.28
MW-25	12-Sep-05	<1	<2	<2	<2	0.4		2.68	5969.11
MW-25	11-Oct-05	<1	<2	<2	<2	0.0079		2.51	5969.28
MW-25	07-Nov-05	<1	<2	<2	<2	0.034			
MW-25	11-Apr-06	<1	<2	<2	<2	0.13		2.75	5969.04
MW-25	10-May-06	<1	<2	<2	<2	0.14		2.65	5969.14
MW-25	12-Jun-06	<1	<2	<2	<2	0.06			
MW-25	06-Sep-06	<1	<2	<2	<2	0.068		2.42	5969.37
MW-25	13-Mar-07	<1	<2	<2	<2	0.076			
MW-25	21-Jun-07	<1	<2	<2	<2	0.2			
MW-25	12-Sep-07	<1	<2	<2	<2	0.0023		2.71	5969.08
MW-25	17-Jun-08	<1	<2	<2	<2	0.0025		2.51	5969.28
MW-25	29-Sep-08								Lost
MW-25	08-Dec-08								Frozen
MW-26	21-Sep-04	<1	<2	<2	<2	0.82			
MW-26	14-Oct-04	<1	<2	<2	<2	1.4		4.15	5950.50
MW-26	10-Nov-04	<1	<2	<2	<2	4		4.90	5949.75
MW-26	14-Dec-04	<1	<2	<2	<2	2.4		4.81	5949.84
MW-26	13-Jan-05	<0.5	<5	<0.5	NA	0.5		5.79	5948.86
MW-26	13-Jan-05	<1	<2	<2	<2	2.4		5.79	5948.86
MW-26	13-Jan-05	<1	<2	<2	<2	2.1		5.79	5948.86
MW-26	10-Feb-05	<0.5	<5	<0.5	NA	2.9			
MW-26	10-Feb-05	<1	<2	<2	<2	3.2			
MW-26	10-Feb-05	<1	<2	<2	<2	2.9			
MW-26	09-Mar-05	<1	<2	<2	<2	3.4		4.25	5950.40
MW-26	13-Apr-05	<1	<2	<2	<2	3.3		4.15	5950.50
MW-26	13-Apr-05	<1	<2	<2	<2	3.3		4.15	5950.50
MW-26	13-Apr-05	<0.5	<2	<0.5	NA	3.7		4.15	5950.50
MW-26	11-May-05	<1	<2	<2	<2	2.1		1.77	5952.88
MW-26	11-May-05	<0.5	<5	<0.5	NA	0.38		1.77	5952.88
MW-26	11-May-05	<1	<2	<2	<2	2.3		1.77	5952.88
MW-26	08-Jun-05	<1	<2	<2	<2	2.8		1.79	5952.86

## Appendix B

### Summary of Historical Groundwater Analytical Results and Groundwater Elevations Encana, West Divide Creek Seep Garfield County, Colorado

Sample ID	Date	Benzene (ug/L)	Toluene (ug/L)	Ethylbenzene (ug/L)	Total Xylene (ug/L)	Methane (mg/L)	Estimated Thermogenic Methane (mg/L)	DTW (ft)	Groundwater Elevation (ft-msl)
MW-26	12-Jul-05	<1	<2	<2	<2	1.5		1.79	5952.86
MW-26	09-Aug-05	<1	<2	<2	<2	1		1.48	5953.17
MW-26	13-Sep-05	<1	<2	<2	<2	0.97		1.32	5953.33
MW-26	13-Sep-05	<1	<2	<2	<2	0.99		1.32	5953.33
MW-26	13-Sep-05	<0.5	<5	<0.5	NA	1.5		1.32	5953.33
MW-26	11-Oct-05	<1	<2	<2	<2	0.48		1.45	5953.20
MW-26	09-Nov-05	<1	<2	<2	<2	1.4		1.79	5952.86
MW-26	08-Dec-05	<1	<2	<2	<2	0.86		1.75	5952.90
MW-26	12-Jan-06	<1	<2	<2	<2	1.2		1.65	5953.00
MW-26	15-Feb-06	<1	<2	<2	<2	1		1.64	5953.01
MW-26	16-Mar-06	<1	<2	<2	<2	0.83		1.48	5953.17
MW-26	16-Mar-06	<0.25	<0.25	<0.25	<0.25	0.000377		1.48	5953.17
MW-26	12-Apr-06	<1	<2	<2	<2	0.45		1.13	5953.52
MW-26	12-Apr-06	<0.25	<0.25	<0.25	<0.25	0.858		1.13	5953.52
MW-26	11-May-06	<1	<2	<2	<2	0.75		1.55	5953.10
MW-26	11-May-06	<0.5	<0.5	<0.5	<0.5	0.877		1.55	5953.10
MW-26	13-Jun-06	<1	<2	<2	<2	0.63			
MW-26	13-Jun-06	<0.5	<0.5	<0.5	<0.5	0.767			
MW-26	07-Sep-06	<1	<5	<2	<2	1.5		1.20	5953.45
MW-26	06-Dec-06	<0.25	<0.25	<0.25	<0.25	0.355		0.98	5953.67
MW-26	06-Dec-06	<1	<2	<2	<2	1.1		0.98	5953.67
MW-26	06-Dec-06	<1	<2	<2	<2	0.76		0.98	5953.67
MW-26	12-Mar-07	<1	<2	<2	<2	0.56		0.70	5953.95
MW-26	21-Jun-07	<1	<2	<2	<2	0.62			
MW-26	11-Sep-07	<1	<2	<2	<2	1.4		1.00	5953.65
MW-26	18-Dec-07	<1	<2	<2	<2	0.036		1.73	5952.92
MW-26	04-Mar-08	<1	<2	<2	<2	0.35		0.60	5954.05
MW-26	17-Jun-08	<1	<2	<2	<2	0.55		1.30	5953.35
MW-26	17-Jun-08	<1	<1	<1	<2			1.30	5953.35
MW-26	01-Oct-08	<1	<2	<2	<2	1		1.60	5953.05
MW-26	09-Dec-08	<1	<2	<2	<2	0.73		1.25	5953.40
MW-26	09-Dec-08	<1	<2	<2	<2	0.79		1.25	5953.40
MW-26	09-Dec-08	<1	<1	<1	<1	0.145		1.25	5953.40
MW-27	23-Sep-04	<1	<2	<2	<2	0.00095			
MW-27	14-Oct-04	<1	<2	<2	<2	<0.0008		9.72	5946.50
MW-27	10-Nov-04	<1	<2	<2	<2	0.0011		7.30	5948.92
MW-27	14-Dec-04	<1	<2	<2	<2	0.00091		6.74	5949.48
MW-27	13-Jan-05	<1	<2	<2	<2	<0.0009		7.39	5948.83
MW-27	10-Feb-05	<1	<2	<2	<2	<0.0008			
MW-27	09-Mar-05	<1	<2	<2	<2	<0.0008		9.29	5946.93
MW-27	13-Apr-05	<1	<2	<2	<2	<0.0008		8.02	5948.20
MW-27	11-May-05	<1	<2	<2	<2	<0.0008		5.56	5950.66
MW-27	09-Jun-05	<1	<2	<2	<2	<0.0008		4.67	5951.55
MW-27	13-Jul-05	<1	<2	<2	<2	<0.0008		13.33	5942.89
MW-27	10-Aug-05	<1	<2	<2	<2	<0.0008		8.39	5947.83
MW-27	12-Sep-05	<1	<2	<2	<2	<0.0008		9.87	5946.35
MW-27	11-Oct-05	<1	<2	<2	<2	<0.0008			
MW-27	09-Nov-05	<1	<2	<2	<2	0.00086			
MW-27	08-Dec-05	<1	<2	<2	<2	<0.0008		8.23	5947.99
MW-27	12-Jan-06	<1	<2	<2	<2	<0.0008		9.06	5947.16
MW-27	15-Feb-06	<1	<2	<2	<2	<0.0008		9.57	5946.65
MW-27	16-Mar-06	<1	<2	<2	<2	<0.0008		7.91	5948.31
MW-27	11-Apr-06	<1	<2	<2	<2	0.00083		6.45	5949.77
MW-27	11-May-06	<1	<2	<2	<2	<0.0008		4.15	5952.07
MW-27	13-Jun-06	<1	<2	<2	<2	<0.0008			

## Appendix B

Summary of Historical Groundwater Analytical Results and Groundwater Elevations  
Encana, West Divide Creek Seep  
Garfield County, Colorado

Sample ID	Date	Benzene (ug/L)	Toluene (ug/L)	Ethylbenzene (ug/L)	Total Xylene (ug/L)	Methane (mg/L)	Estimated Thermogenic Methane (mg/L)	DTW (ft)	Groundwater Elevation (ft-msl)
MW-27	06-Sep-06	<1	<2	<2	<2	<0.0008		11.04	5945.18
MW-27	06-Dec-06	<1	<2	<2	<2	<0.0008		8.82	5947.40
MW-27	13-Mar-07	<1	<2	<2	<2	<0.0008		5.90	5950.32
MW-27	22-Jun-07	<1	<2	<2	<2	<0.0008			
MW-27	10-Sep-07	<1	<2	<2	<2	<0.0008		11.21	5945.01
MW-27	18-Dec-07	<1	<2	<2	<2	<0.0008		10.95	5945.27
MW-27	04-Mar-08	<1	<2	<2	<2	<0.0008		9.75	5946.47
MW-27	17-Jun-08	<1	<2	<2	<2	<0.0008		5.47	5950.75
MW-27	29-Sep-08	<1	<2	<2	<2	<0.0008	<0.0008	11.35	5944.87
MW-27	09-Dec-08	<1	<2	<2	<2	<0.0008	<0.0008	5.75	5950.47
<b>Bold - indicates value exceeds state standard</b>				DTW - depth to water below measuring point					
mg/l - milligrams/liter				<b>ft - feet</b>				ft-msl - feet above mean sea level	
ug/l - micrograms/liter				Blank cell - indicates not analyzed or not obtained					

# **APPENDIX C**

## **Historical Surface Water Results**

## Appendix C

### Summary of Historical Surface-Water Analytical Results

Encana, West Divide Creek Seep

Garfield County, Colorado

Location ID	Date	Benzene (ug/L)	Toluene (ug/L)	Ethylbenzene (ug/L)	Total Xylene (ug/L)	Total Dissolved Methane (mg/L)	Estimated Thermogenic Methane (mg/L)
Colorado RBSLs (ug/L)		5	1000	680	10,000		
DCS-1	13-Apr-04	<1	<2	<2	<2	0.0055	
DCS-1	14-Apr-04	<1	<2	<2	<2	0.0039	
DCS-1	15-Apr-04	<1	<2	<2	<2	0.0077	
DCS-1	16-Apr-04	<1	<2	<2	<2	0.011	
DCS-1	17-Apr-04	<1	<2	<2	<2	0.015	
DCS-1	18-Apr-04	<1	<2	<2	<2	0.018	
DCS-1	19-Apr-04	<1	<2	<2	<2	0.0031	
DCS-1	26-Apr-04	<1	<2	<2	<2	0.003	
DCS-1	29-Apr-04	<1	<2	<2	<2	0.0015	
DCS-1	03-May-04	<1	<2	<2	<2	0.0011	
DCS-1	02-Jun-04	<1	<2	<2	<2	0.0013	
DCS-1	08-Jul-04	<1	<2	<2	<2	0.0016	
DCS-1	03-Aug-04	<1	<2	<2	<2	0.0025	
DCS-1	14-Sep-04	<1	<2	<2	<2	0.0014	
DCS-1	12-Oct-04	<1	<2	<2	<2	0.02	
DCS-1	26-Oct-04	<1	<2	<2	<2	0.026	
DCS-1	27-Oct-04	<1	<2	<2	<2	0.021	
DCS-1	28-Oct-04	<1	<2	<2	<2	0.023	
DCS-1	29-Oct-04	<1	<2	<2	<2	0.027	
DCS-1	30-Oct-04	<1	<2	<2	<2	0.026	
DCS-1	31-Oct-04	<1	<2	<2	<2	0.028	
DCS-1	01-Nov-04	<1	<2	<2	<2	0.027	
DCS-1	02-Nov-04	<1	<2	<2	<2	0.05	
DCS-1	03-Nov-04	<1	<2	<2	<2	0.029	
DCS-1	04-Nov-04	<1	<2	<2	<2	0.042	
DCS-1	05-Nov-04	<1	<2	<2	<2	0.035	
DCS-1	06-Nov-04	<1	<2	<2	<2	0.037	
DCS-1	07-Nov-04	<1	<2	<2	<2	0.032	
DCS-1	08-Nov-04	<1	<2	<2	<2	0.018	
DCS-1	09-Nov-04	<1	<2	<2	<2	0.022	
DCS-1	10-Nov-04	<1	<2	<2	<2	0.024	
DCS-1	11-Nov-04	<1	<2	<2	<2	0.026	
DCS-1	12-Nov-04	<1	<2	<2	<2	0.028	
DCS-1	19-Nov-04	<1	<2	<2	<2	0.033	
DCS-1	23-Nov-04	<1	<2	<2	<2	0.057	
DCS-1	02-Dec-04	<1	<2	<2	<2	0.086	
DCS-1	09-Dec-04	<1	<2	<2	<2	0.002	
DCS-1	15-Dec-04	<1	<2	<2	<2	0.0019	
DCS-1	20-Dec-04	<1	<2	<2	<2	0.002	
DCS-1	23-Dec-04	<1	<2	<2	<2	0.0013	

## Appendix C

### Summary of Historical Surface-Water Analytical Results

Encana, West Divide Creek Seep

Garfield County, Colorado

Location ID	Date	Benzene (ug/L)	Toluene (ug/L)	Ethylbenzene (ug/L)	Total Xylene (ug/L)	Total Dissolved Methane (mg/L)	Estimated Thermogenic Methane (mg/L)
Colorado RBSLs (ug/L)		5	1000	680	10,000		
DCS-1	06-Jan-05	<1	<2	<2	<2	0.0015	
DCS-1	10-Jan-05	<1	<2	<2	<2	0.0022	
DCS-1	10-Jan-05	<1	<2	<2	<2	0.0023	
DCS-1	10-Jan-05	<0.5	<5	<0.5	NA	<0.01	
DCS-1	20-Jan-05	<1	<2	<2	<2	0.0013	
DCS-1	26-Jan-05	<1	<2	<2	<2	0.00095	
DCS-1	04-Feb-05	<1	<2	<2	<2	0.0013	
DCS-1	07-Feb-05	<1	<2	<2	<2	0.0013	
DCS-1	16-Feb-05	<1	<2	<2	<2	0.0013	
DCS-1	24-Feb-05	<1	<2	<2	<2	0.0011	
DCS-1	03-Mar-05	<1	<2	<2	<2	0.0013	
DCS-1	07-Mar-05	<1	<2	<2	<2	0.0014	
DCS-1	07-Mar-05	<1	<2	<2	<2	0.0014	
DCS-1	07-Mar-05	<0.5	<5	<0.5	NA	<0.01	
DCS-1	18-Mar-05	<1	<2	<2	<2	0.0011	
DCS-1	23-Mar-05	<1	<2	<2	<2	0.0063	
DCS-1	29-Mar-05	<1	<2	<2	<2	<0.0008	
DCS-1	07-Apr-05	<1	<2	<2	<2	0.0062	
DCS-1	11-Apr-05	<1	<2	<2	<2	0.01	
DCS-1	20-Apr-05	<1	<2	<2	<2	<0.0008	
DCS-1	27-Apr-05	<1	<2	<2	<2	<0.0008	
DCS-1	05-May-05	<1	<2	<2	<2	<0.0008	
DCS-1	09-May-05	<1	<2	<2	<2	<0.0008	
DCS-1	18-May-05	<1	<2	<2	<2	<0.0008	
DCS-1	25-May-05	<1	<2	<2	<2	<0.0008	
DCS-1	02-Jun-05	<1	<2	<2	<2	0.0018	
DCS-1	08-Jun-05	<1	<2	<2	<2	0.0019	
DCS-1	15-Jun-05	<1	<2	<2	<2	0.0026	
DCS-1	21-Jun-05	<1	<2	<2	<2	0.0011	
DCS-1	30-Jun-05	<1	<2	<2	<2	0.0012	
DCS-1	07-Jul-05	<1	<2	<2	<2	0.0013	
DCS-1	11-Jul-05	<1	<2	<2	<2	0.0013	
DCS-1	21-Jul-05	<1	<2	<2	<2	0.0018	
DCS-1	27-Jul-05	<1	<2	<2	<2	0.0011	
DCS-1	03-Aug-05	<1	<2	<2	<2	0.0014	
DCS-1	08-Aug-05	<1	<2	<2	<2	0.0014	
DCS-1	16-Aug-05	<1	<2	<2	<2	0.0022	
DCS-1	24-Aug-05	<1	<2	<2	<2	0.0015	
DCS-1	02-Sep-05	<1	<2	<2	<2	0.0017	
DCS-1	09-Sep-05	<1	<2	<2	<2	0.0021	



## Appendix C

### Summary of Historical Surface-Water Analytical Results

Encana, West Divide Creek Seep

Garfield County, Colorado

Location ID	Date	Benzene (ug/L)	Toluene (ug/L)	Ethylbenzene (ug/L)	Total Xylene (ug/L)	Total Dissolved Methane (mg/L)	Estimated Thermogenic Methane (mg/L)
Colorado RBSLs (ug/L)		5	1000	680	10,000		
DCS-1	13-Sep-05	<1	<2	<2	<2	0.0014	
DCS-1	22-Sep-05	<1	<2	<2	<2	<0.0008	
DCS-1	29-Sep-05	<1	<2	<2	<2	<0.0008	
DCS-1	06-Oct-05	<1	<2	<2	<2	0.006	
DCS-1	10-Oct-05	<1	<2	<2	<2	0.0015	
DCS-1	20-Oct-05	<1	<2	<2	<2	0.0063	
DCS-1	27-Oct-05	<1	<2	<2	<2	0.0061	
DCS-1	03-Nov-05	<1	<2	<2	<2	0.0012	
DCS-1	07-Nov-05	<1	<2	<2	<2	0.0012	
DCS-1	17-Nov-05	<1	<2	<2	<2	0.0011	
DCS-1	22-Nov-05	<1	<2	<2	<2	0.0017	
DCS-1	29-Nov-05	<1	<2	<2	<2	0.0016	
DCS-1	06-Dec-05	<1	<2	<2	<2	0.0013	
DCS-1	14-Dec-05	<1	<2	<2	<2	0.0014	
DCS-1	21-Dec-05	<1	<2	<2	<2	<0.0008	
DCS-1	29-Dec-05	<1	<2	<2	<2	<0.0008	
DCS-1	05-Jan-06	<1	<2	<2	<2	<0.0008	
DCS-1	09-Jan-06	<1	<2	<2	<2	<0.0008	
DCS-1	18-Jan-06	<1	<2	<2	<2	<0.0008	
DCS-1	24-Jan-06	<1	<2	<2	<2	0.0011	
DCS-1	01-Feb-06	<1	<2	<2	<2	0.00089	
DCS-1	09-Feb-06	<0.5	<1	<1	NA	0.003	
DCS-1	13-Feb-06	<0.5	<1	<1	NA	<0.0008	
DCS-1	22-Feb-06	<1	<2	<2	<2	0.00081	
DCS-1	01-Mar-06	<1	<2	<2	<2	<0.0008	
DCS-1	09-Mar-06	<1	<2	<2	<2	0.00084	
DCS-1	14-Mar-06	<1	<2	<2	<2	<0.0008	
DCS-1	22-Mar-06	<1	<2	<2	<2	0.0017	
DCS-1	30-Mar-06	<1	<2	<2	<2	<0.0008	
DCS-1	05-Apr-06	<1	<2	<2	<2	<0.0008	
DCS-1	10-Apr-06	<1	<2	<2	<2	<0.0008	
DCS-1	20-Apr-06	<1	<2	<2	<2	<0.0008	
DCS-1	27-Apr-06	<1	<2	<2	<2	<0.0008	
DCS-1	04-May-06	<1	<2	<2	<2	<0.0008	
DCS-1	09-May-06	<1	<2	<2	<2	<0.0008	
DCS-1	13-Jun-06	<1	<2	<2	<2	0.0016	
DCS-1	05-Sep-06	<1	<5	<2	<2	0.0019	
DCS-1	04-Dec-06	<1	<5	<2	<2	0.0015	
DCS-1	04-Dec-06	<0.25	<0.25	<0.25	NA	0.0005	
DCS-1	12-Mar-07	<1	<5	<2	<2	<0.0008	

## Appendix C

### Summary of Historical Surface-Water Analytical Results

Encana, West Divide Creek Seep

Garfield County, Colorado

Location ID	Date	Benzene (ug/L)	Toluene (ug/L)	Ethylbenzene (ug/L)	Total Xylene (ug/L)	Total Dissolved Methane (mg/L)	Estimated Thermogenic Methane (mg/L)
Colorado RBSLs (ug/L)		5	1000	680	10,000		
DCS-1	21-Jun-07	<1	<2	<2	<2	<0.0008	
DCS-1	13-Sep-07	<1	<2	<2	<2	0.0018	
DCS-1	17-Dec-07	<1	<2	<2	<2	0.0015	
DCS-1	03-Mar-08	<1	<2	<2	<2	<0.0008	
DCS-1	18-Jun-08	<1	<2	<2	<2	0.0012	
DCS-1	29-Sep-08	<1	<2	<2	<2	0.0019	
DCS-1	10-Dec-08	<1	<2	<2	<2	<0.0008	
DCS-2	13-Apr-04	1.4	<2	<2	<2	0.1	
DCS-2	14-Apr-04	1.1	<2	<2	<2	0.11	
DCS-2	15-Apr-04	1.6	<2	<2	<2	0.12	
DCS-2	16-Apr-04	3.5	2.6	<2	<2	0.24	
DCS-2	17-Apr-04	3.5	2.6	<2	<2	0.28	
DCS-2	18-Apr-04	2.9	2.1	<2	<2	0.19	
DCS-2	19-Apr-04	<1	<2	<2	<2	0.034	
DCS-2	26-Apr-04	<1	<2	<2	<2	0.027	
DCS-2	29-Apr-04	<1	<2	<2	<2	0.0025	
DCS-2	03-May-04	<1	<2	<2	<2	0.007	
DCS-2	02-Jun-04	<1	<2	<2	<2	0.0027	
DCS-2	09-Jun-04	<1	<2	<2	<2	0.0028	
DCS-2	17-Jun-04	<1	<2	<2	<2	0.0023	
DCS-2	24-Jun-04	<1	<2	<2	<2	0.015	
DCS-2	30-Jun-04	<1	<2	<2	<2	0.0052	
DCS-2	08-Jul-04	<1	<2	<2	<2	0.0064	
DCS-2	15-Jul-04	<1	<2	<2	<2	0.0065	
DCS-2	22-Jul-04	<1	<2	<2	<2	0.0077	
DCS-2	29-Jul-04	<1	<2	<2	<2	0.0074	
DCS-2	03-Aug-04	<1	<2	<2	<2	0.011	
DCS-2	11-Aug-04	<1	<2	<2	<2	0.014	
DCS-2	17-Aug-04	1.9	<2	<2	<2	0.012	
DCS-2	14-Sep-04	<1	<2	<2	<2	0.013	
DCS-2	12-Oct-04	4.3	<2	<2	<2	0.36	
DCS-2	12-Oct-04	4.1	<2	<2	<2	0.36	
DCS-2	12-Oct-04	3.6	<2	<2	NA	0.18	
DCS-2	26-Oct-04	2.9	<2	<2	<2	0.29	
DCS-2	27-Oct-04	2.2	<2	<2	<2	0.18	
DCS-2	28-Oct-04	2.5	<2	<2	<2	0.28	
DCS-2	29-Oct-04	2.4	<2	<2	<2	0.25	
DCS-2	30-Oct-04	3.2	<2	<2	<2	0.28	
DCS-2	31-Oct-04	1.3	<2	<2	<2	0.18	

## Appendix C

### Summary of Historical Surface-Water Analytical Results

Encana, West Divide Creek Seep

Garfield County, Colorado

Location ID	Date	Benzene (ug/L)	Toluene (ug/L)	Ethylbenzene (ug/L)	Total Xylene (ug/L)	Total Dissolved Methane (mg/L)	Estimated Thermogenic Methane (mg/L)
Colorado RBSLs (ug/L)		5	1000	680	10,000		
DCS-2	01-Nov-04	3.5	<2	<2	<2	0.33	
DCS-2	02-Nov-04	4.1	<2	<2	<2	0.59	
DCS-2	03-Nov-04	3.3	<2	<2	<2	0.32	
DCS-2	04-Nov-04	4.4	<2	<2	<2	0.61	
DCS-2	05-Nov-04	<b>5.9</b>	<2	<2	<2	0.56	
DCS-2	06-Nov-04	4.4	<2	<2	<2	0.46	
DCS-2	07-Nov-04	4.2	<2	<2	<2	0.44	
DCS-2	08-Nov-04	3	<2	<2	<2	0.18	
DCS-2	09-Nov-04	3.7	<2	<2	<2	0.29	
DCS-2	10-Nov-04	4.5	<2	<2	<2	0.37	
DCS-2	11-Nov-04	3.3	<2	<2	<2	0.28	
DCS-2	12-Nov-04	<1	<2	<2	<2	0.3	
DCS-2	19-Nov-04	2.8	<2	<2	<2	0.3	
DCS-2	23-Nov-04	<b>5.1</b>	<2	<2	<2	0.57	
DCS-2	02-Dec-04	2.4	<2	<2	<2	0.42	
DCS-2	09-Dec-04	<1	<2	<2	<2	0.059	
DCS-2	15-Dec-04	<1	<2	<2	<2	0.035	
DCS-2	20-Dec-04	<b>360</b>	130	16	NA	12	
DCS-2	23-Dec-04	<1	<2	<2	<2	0.018	
DCS-2	06-Jan-05	<1	<2	<2	<2	0.0055	
DCS-2	10-Jan-05	<1	<2	<2	<2	0.041	
DCS-2	20-Jan-05	<1	<2	<2	<2	0.0031	
DCS-2	26-Jan-05	<1	<2	<2	<2	0.0035	
DCS-2	04-Feb-05	<1	<2	<2	<2	0.0038	
DCS-2	07-Feb-05	<1	<2	<2	<2	0.0035	
DCS-2	16-Feb-05	<1	<2	<2	<2	0.0045	0.003
DCS-2	24-Feb-05	<1	<2	<2	<2	0.0038	
DCS-2	03-Mar-05	<1	<2	<2	<2	0.003	
DCS-2	07-Mar-05	<1	<2	<2	<2	0.0048	
DCS-2	18-Mar-05	<1	<2	<2	<2	0.0035	
DCS-2	23-Mar-05	<1	<2	<2	<2	0.056	
DCS-2	29-Mar-05	<1	<2	<2	<2	0.0019	
DCS-2	07-Apr-05	1	<2	<2	<2	0.064	
DCS-2	11-Apr-05	2	<2	<2	<2	0.11	
DCS-2	20-Apr-05	<1	<2	<2	<2	<0.0008	
DCS-2	27-Apr-05	<1	<2	<2	<2	0.00088	
DCS-2	05-May-05	<1	<2	<2	<2	<0.0008	
DCS-2	09-May-05	<1	<2	<2	<2	0.0084	
DCS-2	09-May-05	<1	<2	<2	<2	0.0098	
DCS-2	18-May-05	<1	<2	<2	<2	0.001	

## Appendix C

### Summary of Historical Surface-Water Analytical Results

Encana, West Divide Creek Seep

Garfield County, Colorado

Location ID	Date	Benzene (ug/L)	Toluene (ug/L)	Ethylbenzene (ug/L)	Total Xylene (ug/L)	Total Dissolved Methane (mg/L)	Estimated Thermogenic Methane (mg/L)
Colorado RBSLs (ug/L)		5	1000	680	10,000		
DCS-2	25-May-05	<1	<2	<2	<2	0.0018	
DCS-2	02-Jun-05	<1	<2	<2	<2	0.0023	
DCS-2	08-Jun-05	<1	<2	<2	<2	0.003	
DCS-2	15-Jun-05	<1	<2	<2	<2	0.0027	
DCS-2	21-Jun-05	<1	<2	<2	<2	0.0013	
DCS-2	30-Jun-05	<1	<2	<2	<2	0.0015	
DCS-2	07-Jul-05	<1	<2	<2	<2	0.0023	
DCS-2	11-Jul-05	<1	<2	<2	<2	0.0021	
DCS-2	21-Jul-05	<1	<2	<2	<2	0.0036	
DCS-2	27-Jul-05	<1	<2	<2	<2	0.0023	
DCS-2	08-Aug-05	<1	<2	<2	<2	0.0052	
DCS-2	16-Aug-05	<1	<2	<2	<2	0.006	
DCS-2	24-Aug-05	<1	<2	<2	<2	0.0044	
DCS-2	02-Sep-05	<1	<2	<2	<2	0.01	
DCS-2	09-Sep-05	<1	<2	<2	<2	0.014	
DCS-2	13-Sep-05	<1	<2	<2	<2	0.0063	
DCS-2	22-Sep-05	<1	<2	<2	<2	0.0012	
DCS-2	29-Sep-05	<1	<2	<2	<2	0.0014	
DCS-2	06-Oct-05	<1	<2	<2	<2	0.048	
DCS-2	10-Oct-05	<1	<2	<2	<2	0.012	
DCS-2	20-Oct-05	<1	<2	<2	<2	0.043	
DCS-2	27-Oct-05	<1	<2	<2	<2	0.051	
DCS-2	07-Nov-05	<1	<2	<2	<2	0.0022	
DCS-2	17-Nov-05	<1	<2	<2	<2	0.0038	
DCS-2	22-Nov-05	<1	<2	<2	<2	0.0096	
DCS-2	29-Nov-05	<1	<2	<2	<2	0.015	
DCS-2	06-Dec-05	<1	<2	<2	<2	0.005	
DCS-2	14-Dec-05	<1	<2	<2	<2	0.065	
DCS-2	21-Dec-05	<1	<2	<2	<2	0.0062	
DCS-2	29-Dec-05	<1	<2	<2	<2	0.0052	
DCS-2	05-Jan-06	<1	<2	<2	<2	0.0046	
DCS-2	09-Jan-06	<1	<2	<2	<2	0.0035	
DCS-2	18-Jan-06	<1	<2	<2	<2	0.01	
DCS-2	24-Jan-06	<1	<2	<2	<2	0.0098	
DCS-2	01-Feb-06	<1	<2	<2	<2	0.0049	
DCS-2	09-Feb-06	<0.5	<1	<1	<1	0.028	
DCS-2	13-Feb-06	<0.5	<1	<1	<1	-999.9	
DCS-2	22-Feb-06	<1	<2	<2	<2	0.0039	
DCS-2	01-Mar-06	<1	<2	<2	<2	<0.0008	
DCS-2	09-Mar-06	<1	<2	<2	<2	0.0021	

## Appendix C

### Summary of Historical Surface-Water Analytical Results

Encana, West Divide Creek Seep

Garfield County, Colorado

Location ID	Date	Benzene (ug/L)	Toluene (ug/L)	Ethylbenzene (ug/L)	Total Xylene (ug/L)	Total Dissolved Methane (mg/L)	Estimated Thermogenic Methane (mg/L)
Colorado RBSLs (ug/L)		5	1000	680	10,000		
DCS-2	14-Mar-06	<1	<2	<2	<2	0.0014	
DCS-2	22-Mar-06	<1	<2	<2	<2	0.0052	
DCS-2	30-Mar-06	<1	<2	<2	<2	0.0012	
DCS-2	05-Apr-06	<1	<2	<2	<2	<0.0008	
DCS-2	10-Apr-06	<0.25	<0.25	<0.25	<0.25	0.00061	
DCS-2	10-Apr-06	<1	<2	<2	<2	<0.0008	
DCS-2	20-Apr-06	<1	<2	<2	<2	<0.0008	
DCS-2	27-Apr-06	<1	<2	<2	<2	<0.0008	
DCS-2	04-May-06	<1	<2	<2	<2	<0.0008	
DCS-2	09-May-06	<1	<2	<2	<2	<0.0008	
DCS-2	13-Jun-06	<1	<2	<2	<2	0.019	
DCS-2	05-Sep-06	<1	<5	<2	<2	0.0054	0.000
DCS-2	05-Sep-06	<0.25	<0.25	<0.25	<0.25	0.00269	
DCS-2	04-Dec-06	<1	<5	<2	<2	0.014	0.007
DCS-2	12-Mar-07	<1	<5	<2	<2	0.0735	
DCS-2	12-Mar-07	<1	<5	<2	<2	0.072	0.042
DCS-2	12-Mar-07	<1	<5	<2	<2	0.11	
DCS-2	21-Jun-07	<1	<2	<2	<2	0.0019	
DCS-2	21-Jun-07	<0.25	<0.25	<0.25	<0.25	0.991	
DCS-2	13-Sep-07	<1	<2	<2	<2	0.02	
DCS-2	17-Dec-07	<1	<2	<2	<2	0.0018	
DCS-2	03-Mar-08	<1	<2	<2	<2	0.00096	
DCS-2	03-Mar-08	<1	<2	<2	<2	0.0011	0.000
DCS-2	03-Mar-08	<0.5	<0.5	<0.5	<0.5	0.000488	
DCS-2	18-Jun-08	<1	<2	<2	<2	0.0013	<0.0013
DCS-2	29-Sep-08	<1	<2	<2	<2	0.0059	<0.0059
DCS-2	10-Dec-08	<1	<2	<2	<2	0.0022	<0.0008
DCS-3	03-Nov-05	<1	<2	<2	<2	0.0035	
DCS-3	13-Apr-04	3.1	2.6	<2	<2	0.22	
DCS-3	14-Apr-04	2.3	<2	<2	<2	0.15	
DCS-3	15-Apr-04	<b>6.6</b>	5.2	<2	<2	0.35	
DCS-3	16-Apr-04	<b>5.7</b>	4.2	<2	<2	0.38	
DCS-3	16-Apr-04	<b>5.8</b>	4.2	<2	<2	0.33	
DCS-3	17-Apr-04	<b>9.1</b>	7	<2	<2	0.46	
DCS-3	18-Apr-04	<b>6.4</b>	4.7	<2	<2	0.4	
DCS-3	19-Apr-04	1.4	<2	<2	<2	0.098	
DCS-3	26-Apr-04	<1	<2	<2	<2	0.081	
DCS-3	29-Apr-04	<1	<2	<2	<2	0.018	

## Appendix C

### Summary of Historical Surface-Water Analytical Results

Encana, West Divide Creek Seep

Garfield County, Colorado

Location ID	Date	Benzene (ug/L)	Toluene (ug/L)	Ethylbenzene (ug/L)	Total Xylene (ug/L)	Total Dissolved Methane (mg/L)	Estimated Thermogenic Methane (mg/L)
Colorado RBSLs (ug/L)		5	1000	680	10,000		
DCS-3	03-May-04	<1	<2	<2	<2	0.027	
DCS-3	26-May-04	<1	<2	<2	<2	0.023	
DCS-3	02-Jun-04	<1	<2	<2	<2	0.014	
DCS-3	09-Jun-04	<1	<2	<2	<2	0.019	
DCS-3	17-Jun-04	<1	<2	<2	<2	0.013	
DCS-3	24-Jun-04	<1	<2	<2	<2	0.0029	
DCS-3	30-Jun-04	<1	<2	<2	<2	0.02	
DCS-3	08-Jul-04	<1	<2	<2	<2	0.033	
DCS-3	15-Jul-04	<1	<2	<2	<2	0.041	
DCS-3	22-Jul-04	<1	<2	<2	<2	0.048	
DCS-3	29-Jul-04	<1	<2	<2	<2	0.046	
DCS-3	03-Aug-04	<1	<2	<2	<2	0.066	
DCS-3	11-Aug-04	<1	<2	<2	<2	0.072	
DCS-3	17-Aug-04	<1	<2	<2	<2	0.083	
DCS-3	14-Sep-04	<1	<2	<2	<2	0.084	0.049
DCS-3	12-Oct-04	<b>6.2</b>	<2	<2	<2	0.67	
DCS-3	26-Oct-04	<b>5.8</b>	<2	<2	<2	0.64	
DCS-3	27-Oct-04	<b>5.3</b>	<2	<2	<2	0.56	
DCS-3	28-Oct-04	4.4	<2	<2	<2	0.48	
DCS-3	29-Oct-04	4.3	<2	<2	<2	0.43	
DCS-3	30-Oct-04	<1	<2	<2	<2	0.59	
DCS-3	31-Oct-04	<b>6.3</b>	<2	<2	<2	0.58	
DCS-3	01-Nov-04	<b>5.5</b>	<2	<2	<2	0.62	
DCS-3	02-Nov-04	<b>6.5</b>	<2	<2	<2	1.2	
DCS-3	03-Nov-04	<b>5.7</b>	<2	<2	<2	0.53	
DCS-3	04-Nov-04	<b>5.4</b>	<2	<2	<2	0.74	
DCS-3	05-Nov-04	<b>9.7</b>	<2	<2	<2	0.86	
DCS-3	06-Nov-04	4.9	<2	<2	<2	0.71	
DCS-3	07-Nov-04	3.9	<2	<2	<2	0.6	
DCS-3	08-Nov-04	<b>5.1</b>	<2	<2	<2	0.39	
DCS-3	09-Nov-04	<b>5.7</b>	<2	<2	<2	0.58	
DCS-3	10-Nov-04	<b>5.4</b>	<2	<2	<2	0.57	
DCS-3	11-Nov-04	<b>7.1</b>	<2	<2	<2	0.63	
DCS-3	12-Nov-04	1.2	<2	<2	<2	0.77	
DCS-3	19-Nov-04	5.9	<2	<2	<2	0.74	
DCS-3	23-Nov-04	<b>9.2</b>	<2	<2	<2	0.98	
DCS-3	02-Dec-04	<b>12</b>	<2	<2	<2	1.5	
DCS-3	09-Dec-04	<0.5	<5	<0.5	NA	0.058	
DCS-3	09-Dec-04	<1	<2	<2	<2	0.079	

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### Summary of Historical Surface-Water Analytical Results

Encana, West Divide Creek Seep

Garfield County, Colorado

Location ID	Date	Benzene (ug/L)	Toluene (ug/L)	Ethylbenzene (ug/L)	Total Xylene (ug/L)	Total Dissolved Methane (mg/L)	Estimated Thermogenic Methane (mg/L)
Colorado RBSLs (ug/L)		5	1000	680	10,000		
DCS-3	09-Dec-04	<1	<2	<2	<2	0.077	
DCS-3	15-Dec-04	<1	<2	<2	<2	0.006	
DCS-3	20-Dec-04	<1	<2	<2	<2	0.0052	
DCS-3	23-Dec-04	<1	<2	<2	<2	0.03	
DCS-3	06-Jan-05	<1	<2	<2	<2	0.039	
DCS-3	10-Jan-05	<1	<2	<2	<2	0.088	0.045
DCS-3	20-Jan-05	<1	<2	<2	<2	0.022	
DCS-3	26-Jan-05	<1	<2	<2	<2	0.018	
DCS-3	04-Feb-05	<1	<2	<2	<2	0.025	
DCS-3	07-Feb-05	<1	<2	<2	<2	0.02	
DCS-3	16-Feb-05	<1	<2	<2	<2	0.025	0.020
DCS-3	24-Feb-05	<1	<2	<2	<2	0.016	
DCS-3	03-Mar-05	<1	<2	<2	<2	0.014	
DCS-3	07-Mar-05	<1	<2	<2	<2	0.025	
DCS-3	18-Mar-05	<1	<2	<2	<2	0.023	
DCS-3	23-Mar-05	2.1	<2	<2	<2	0.13	
DCS-3	29-Mar-05	<1	<2	<2	<2	0.0089	
DCS-3	07-Apr-05	1.9	<2	<2	<2	0.17	
DCS-3	11-Apr-05	3.5	<2	<2	<2	0.29	
DCS-3	20-Apr-05	<1	<2	<2	<2	<0.0008	
DCS-3	27-Apr-05	<1	<2	<2	<2	0.0026	
DCS-3	05-May-05	<1	<2	<2	<2	0.0028	
DCS-3	09-May-05	<1	<2	<2	<2	0.015	0.002
DCS-3	18-May-05	<1	<2	<2	<2	0.00083	
DCS-3	25-May-05	<1	<2	<2	<2	0.00082	
DCS-3	02-Jun-05	<1	<2	<2	<2	0.0019	
DCS-3	08-Jun-05	<1	<2	<2	<2	0.0037	
DCS-3	08-Jun-05	<0.5	<5	<0.5	NA	<0.01	
DCS-3	08-Jun-05	<1	<2	<2	<2	0.0035	
DCS-3	15-Jun-05	<1	<2	<2	<2	0.0026	
DCS-3	21-Jun-05	<1	<2	<2	<2	0.0013	
DCS-3	30-Jun-05	<1	<2	<2	<2	0.0014	
DCS-3	07-Jul-05	<1	<2	<2	<2	0.0091	
DCS-3	11-Jul-05	<1	<2	<2	<2	0.0069	
DCS-3	11-Jul-05	<0.5	<5	0.53	NA	0.017	
DCS-3	11-Jul-05	<1	<2	<2	<2	0.006	
DCS-3	21-Jul-05	<1	<2	<2	<2	0.017	
DCS-3	27-Jul-05	<1	<2	<2	<2	0.0087	
DCS-3	03-Aug-05	<1	<2	<2	<2	0.016	
DCS-3	08-Aug-05	<1	<2	<2	<2	0.017	

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### Summary of Historical Surface-Water Analytical Results

Encana, West Divide Creek Seep

Garfield County, Colorado

Location ID	Date	Benzene (ug/L)	Toluene (ug/L)	Ethylbenzene (ug/L)	Total Xylene (ug/L)	Total Dissolved Methane (mg/L)	Estimated Thermogenic Methane (mg/L)
Colorado RBSLs (ug/L)		5	1000	680	10,000		
DCS-3	16-Aug-05	<1	<2	<2	<2	0.017	
DCS-3	24-Aug-05	<1	<2	<2	<2	0.014	
DCS-3	02-Sep-05	<1	<2	<2	<2	0.026	
DCS-3	09-Sep-05	<1	<2	<2	<2	0.015	
DCS-3	13-Sep-05	<1	<2	<2	<2	0.017	0.012
DCS-3	22-Sep-05	<1	<2	<2	<2	0.0035	
DCS-3	29-Sep-05	<1	<2	<2	<2	0.003	
DCS-3	06-Oct-05	<1	<2	<2	<2	0.093	
DCS-3	10-Oct-05	<1	<2	<2	<2	0.015	
DCS-3	20-Oct-05	<1	<2	<2	<2	0.048	
DCS-3	27-Oct-05	<1	<2	<2	<2	0.068	
DCS-3	03-Nov-05	<1	<2	<2	<2	0.011	
DCS-3	07-Nov-05	<1	<2	<2	<2	0.0069	
DCS-3	17-Nov-05	<1	<2	<2	<2	0.0084	
DCS-3	22-Nov-05	<1	<2	<2	<2	0.035	
DCS-3	29-Nov-05	<1	<2	<2	<2	0.048	
DCS-3	06-Dec-05	<1	<2	<2	<2	0.0024	
DCS-3	14-Dec-05	<1	<2	<2	<2	0.061	
DCS-3	21-Dec-05	<1	<2	<2	<2	0.014	
DCS-3	29-Dec-05	<1	<2	<2	<2	0.014	
DCS-3	05-Jan-06	<1	<2	<2	<2	0.011	
DCS-3	09-Jan-06	<1	<2	<2	<2	0.019	0.019
DCS-3	18-Jan-06	<1	<2	<2	<2	0.02	
DCS-3	24-Jan-06	<1	<2	<2	<2	0.04	
DCS-3	01-Feb-06	<1	<2	<2	<2	0.023	
DCS-3	09-Feb-06	<0.5	<1	<1	<1	<0.002	
DCS-3	13-Feb-06	<0.5	<1	<1	<1	0.028	
DCS-3	22-Feb-06	<1	<2	<2	<2	0.015	
DCS-3	01-Mar-06	<1	<2	<2	<2	0.0011	
DCS-3	09-Mar-06	<1	<2	<2	<2	0.0055	
DCS-3	14-Mar-06	<1	<2	<2	<2	0.0028	
DCS-3	22-Mar-06	<1	<2	<2	<2	0.01	
DCS-3	30-Mar-06	<1	<2	<2	<2	0.0011	
DCS-3	05-Apr-06	<1	<2	<2	<2	<0.0008	
DCS-3	10-Apr-06	<1	<2	<2	<2	<0.0008	
DCS-3	20-Apr-06	<1	<2	<2	<2	0.0005	
DCS-3	27-Apr-06	<1	<2	<2	<2	<0.0008	
DCS-3	04-May-06	<1	<2	<2	<2	<0.0008	
DCS-3	09-May-06	<1	<2	<2	<2	<0.0008	0.000
DCS-3	09-May-06	<0.5	<0.5	<0.5	<0.5	0.000849	



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### Summary of Historical Surface-Water Analytical Results

Encana, West Divide Creek Seep

Garfield County, Colorado

Location ID	Date	Benzene (ug/L)	Toluene (ug/L)	Ethylbenzene (ug/L)	Total Xylene (ug/L)	Total Dissolved Methane (mg/L)	Estimated Thermogenic Methane (mg/L)
Colorado RBSLs (ug/L)		5	1000	680	10,000		
DCS-3	09-May-06	<1	<2	<2	<2	<0.0008	
DCS-3	13-Jun-06	<1	<2	<2	<2	0.005	
DCS-3	05-Sep-06	<1	<5	<2	<2	0.015	0.009
DCS-3	04-Dec-06	<1	<5	<2	<2	0.0061	0.000
DCS-3	12-Mar-07	<1	<5	<2	<2	0.0081	0.000
DCS-3	21-Jun-07	<1	<2	<2	<2	0.00082	
DCS-3	13-Sep-07	<1	<2	<2	<2	0.0025	
DCS-3	17-Dec-07	<0.5	<5	<0.5	<2	0.00371	
DCS-3	17-Dec-07	<1	<2	<2	<2	0.0032	
DCS-3	03-Mar-08	<1	<2	<2	<2	0.0021	0.000
DCS-3	18-Jun-08	<1	<2	<2	<2	0.001	<0.001
DCS-3	29-Sep-08	<1	<2	<2	<2	0.015	0.008
DCS-3	10-Dec-08	<1	<2	<2	<2	0.067	<0.0008
DCS-4	13-Apr-04	<1	<2	<2	<2	0.11	
DCS-4	14-Apr-04	<1	<2	<2	<2	0.09	
DCS-4	15-Apr-04	1.7	<2	<2	<2	0.15	
DCS-4	16-Apr-04	1.4	<2	<2	<2	0.14	
DCS-4	17-Apr-04	2	<2	<2	<2	0.18	
DCS-4	18-Apr-04	1.7	<2	<2	<2	0.17	
DCS-4	19-Apr-04	<1	<2	<2	<2	0.058	
DCS-4	26-Apr-04	<1	<2	<2	<2	0.043	
DCS-4	29-Apr-04	<1	<2	<2	<2	0.012	
DCS-4	03-May-04	<1	<2	<2	<2	0.013	
DCS-4	02-Jun-04	<1	<2	<2	<2	0.006	
DCS-4	08-Jul-04	<1	<2	<2	<2	0.014	
DCS-4	03-Aug-04	<1	<2	<2	<2	0.022	
DCS-4	14-Sep-04	<1	<2	<2	<2	0.027	
DCS-4	12-Oct-04	1	<2	<2	<2	0.13	
DCS-4	26-Oct-04	1.1	<2	<2	<2	0.15	
DCS-4	27-Oct-04	<1	<2	<2	<2	0.11	
DCS-4	28-Oct-04	<1	<2	<2	<2	0.13	
DCS-4	29-Oct-04	1.1	<2	<2	<2	0.13	
DCS-4	30-Oct-04	1.3	<2	<2	<2	0.15	
DCS-4	31-Oct-04	1.2	<2	<2	<2	0.12	
DCS-4	01-Nov-04	1.2	<2	<2	<2	0.13	
DCS-4	02-Nov-04	1.9	<2	<2	<2	0.3	
DCS-4	03-Nov-04	1.3	<2	<2	<2	0.16	
DCS-4	04-Nov-04	1.7	<2	<2	<2	0.21	
DCS-4	05-Nov-04	1.5	<2	<2	<2	0.15	

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### Summary of Historical Surface-Water Analytical Results

Encana, West Divide Creek Seep

Garfield County, Colorado

Location ID	Date	Benzene (ug/L)	Toluene (ug/L)	Ethylbenzene (ug/L)	Total Xylene (ug/L)	Total Dissolved Methane (mg/L)	Estimated Thermogenic Methane (mg/L)
Colorado RBSLs (ug/L)		5	1000	680	10,000		
DCS-4	06-Nov-04	1.3	<2	<2	<2	0.17	
DCS-4	07-Nov-04	1.3	<2	<2	<2	0.16	
DCS-4	08-Nov-04	1	<2	<2	<2	0.077	
DCS-4	09-Nov-04	1	<2	<2	<2	0.11	
DCS-4	10-Nov-04	<1	<2	<2	<2	0.1	
DCS-4	11-Nov-04	1	<2	<2	<2	0.1	
DCS-4	12-Nov-04	9.8	<2	<2	<2	0.12	
DCS-4	19-Nov-04	1.1	<2	<2	<2	0.14	
DCS-4	23-Nov-04	1.8	<2	<2	<2	0.26	
DCS-4	02-Dec-04	3	<2	<2	<2	0.5	
DCS-4	09-Dec-04	<1	<2	<2	<2	0.029	
DCS-4	15-Dec-04	<1	<2	<2	<2	0.016	
DCS-4	20-Dec-04	<1	<2	<2	<2	0.0023	
DCS-4	23-Dec-04	<1	<2	<2	<2	0.0097	
DCS-4	06-Jan-05	<1	<2	<2	<2	0.019	
DCS-4	10-Jan-05	<1	<2	<2	<2	0.0046	
DCS-4	20-Jan-05	<1	<2	<2	<2	0.0091	
DCS-4	26-Jan-05	<1	<2	<2	<2	0.01	
DCS-4	04-Feb-05	<1	<2	<2	<2	0.0087	
DCS-4	07-Feb-05	<0.5	<5	<0.5	NA	<0.01	
DCS-4	07-Feb-05	<1	<2	<2	<2	0.0096	
DCS-4	07-Feb-05	<1	<2	<2	<2	0.0096	
DCS-4	16-Feb-05	<1	<2	<2	<2	0.01	
DCS-4	24-Feb-05	<1	<2	<2	<2	0.016	
DCS-4	03-Mar-05	<1	<2	<2	<2	0.0069	
DCS-4	07-Mar-05	<1	<2	<2	<2	0.011	
DCS-4	18-Mar-05	<1	<2	<2	<2	0.0075	
DCS-4	23-Mar-05	<1	<2	<2	<2	0.033	
DCS-4	29-Mar-05	<1	<2	<2	<2	0.0042	
DCS-4	07-Apr-05	<1	<2	<2	<2	0.027	
DCS-4	11-Apr-05	<1	<2	<2	<2	0.057	
DCS-4	20-Apr-05	<1	<2	<2	<2	<0.0008	
DCS-4	27-Apr-05	<1	<2	<2	<2	0.0014	
DCS-4	05-May-05	<1	<2	<2	<2	0.0016	
DCS-4	09-May-05	<1	<2	<2	<2	0.00096	
DCS-4	18-May-05	<1	<2	<2	<2	0.0012	
DCS-4	25-May-05	<1	<2	<2	<2	0.0012	
DCS-4	02-Jun-05	<1	<2	<2	<2	0.003	
DCS-4	08-Jun-05	<1	<2	<2	<2	0.0054	
DCS-4	15-Jun-05	<1	<2	<2	<2	0.0033	

## Appendix C

### Summary of Historical Surface-Water Analytical Results

Encana, West Divide Creek Seep

Garfield County, Colorado

Location ID	Date	Benzene (ug/L)	Toluene (ug/L)	Ethylbenzene (ug/L)	Total Xylene (ug/L)	Total Dissolved Methane (mg/L)	Estimated Thermogenic Methane (mg/L)
Colorado RBSLs (ug/L)		5	1000	680	10,000		
DCS-4	21-Jun-05	<1	<2	<2	<2	0.0022	
DCS-4	30-Jun-05	<1	<2	<2	<2	0.0027	
DCS-4	07-Jul-05	<1	<2	<2	<2	0.0042	
DCS-4	11-Jul-05	<1	<2	<2	<2	0.0041	
DCS-4	21-Jul-05	<1	<2	<2	<2	0.0075	
DCS-4	27-Jul-05	<1	<2	<2	<2	0.0035	
DCS-4	03-Aug-05	<1	<2	<2	<2	0.0077	
DCS-4	08-Aug-05	<1	<2	<2	<2	0.0077	
DCS-4	16-Aug-05	<1	<2	<2	<2	0.0089	
DCS-4	24-Aug-05	<1	<2	<2	<2	0.0068	
DCS-4	02-Sep-05	<1	<2	<2	<2	0.0089	
DCS-4	09-Sep-05	<1	<2	<2	<2	0.0072	
DCS-4	13-Sep-05	<1	<2	<2	<2	0.0084	
DCS-4	22-Sep-05	<1	<2	<2	<2	0.0013	
DCS-4	29-Sep-05	<1	<2	<2	<2	0.0019	
DCS-4	06-Oct-05	<1	<2	<2	<2	0.035	
DCS-4	10-Oct-05	<1	<2	<2	<2	0.0085	
DCS-4	20-Oct-05	<1	<2	<2	<2	0.022	
DCS-4	27-Oct-05	<1	<2	<2	<2	0.025	
DCS-4	03-Nov-05	<1	<2	<2	<2	0.0063	
DCS-4	07-Nov-05	<1	<2	<2	<2	0.0044	
DCS-4	07-Nov-05	<1	<2	<2	<2	0.0034	
DCS-4	07-Nov-05	<0.5	<5	<0.5	NA	<0.01	
DCS-4	17-Nov-05	<1	<2	<2	<2	0.0049	
DCS-4	22-Nov-05	<1	<2	<2	<2	0.014	
DCS-4	29-Nov-05	<1	<2	<2	<2	0.024	
DCS-4	06-Dec-05	<1	<2	<2	<2	0.012	
DCS-4	14-Dec-05	<1	<2	<2	<2	0.011	
DCS-4	21-Dec-05	<1	<2	<2	<2	0.0038	
DCS-4	29-Dec-05	<1	<2	<2	<2	0.0038	
DCS-4	05-Jan-06	<1	<2	<2	<2	0.0042	
DCS-4	09-Jan-06	<0.5	<1	<2	<1	0.005	
DCS-4	09-Jan-06	<1	<2	<2	<2	0.0064	
DCS-4	09-Jan-06	<1	<2	<2	<2	0.0064	
DCS-4	18-Jan-06	<1	<2	<2	<2	0.0057	
DCS-4	24-Jan-06	<1	<2	<2	<2	0.019	
DCS-4	01-Feb-06	<1	<2	<2	<2	0.0059	
DCS-4	09-Feb-06	<0.5	<1	<1	<1	0.015	
DCS-4	13-Feb-06	<0.5	<1	<1	<1	<0.002	
DCS-4	22-Feb-06	<1	<2	<2	<2	0.0054	

## Appendix C

### Summary of Historical Surface-Water Analytical Results

Encana, West Divide Creek Seep

Garfield County, Colorado

Location ID	Date	Benzene (ug/L)	Toluene (ug/L)	Ethylbenzene (ug/L)	Total Xylene (ug/L)	Total Dissolved Methane (mg/L)	Estimated Thermogenic Methane (mg/L)
Colorado RBSLs (ug/L)		5	1000	680	10,000		
DCS-4	01-Mar-06	<1	<2	<2	<2	0.0013	
DCS-4	09-Mar-06	<1	<2	<2	<2	0.0032	
DCS-4	14-Mar-06	<1	<2	<2	<2	0.004	
DCS-4	22-Mar-06	<1	<2	<2	<2	0.008	
DCS-4	30-Mar-06	<1	<2	<2	<2	0.0018	
DCS-4	05-Apr-06	<1	<2	<2	<2	<0.0008	
DCS-4	10-Apr-06	<1	<2	<2	<2	<0.0008	
DCS-4	20-Apr-06	<1	<2	<2	<2	0.00078	
DCS-4	27-Apr-06	<1	<2	<2	<2	<0.0008	
DCS-4	04-May-06	<1	<2	<2	<2	<0.0008	
DCS-4	09-May-06	<1	<2	<2	<2	0.00081	
DCS-4	13-Jun-06	<1	<2	<2	<2	0.0038	
DCS-4	05-Sep-06	<1	<5	<2	<2	0.0096	
DCS-4	04-Dec-06	<1	<5	<2	<2	0.014	
DCS-4	12-Mar-07	<1	<5	<2	<2	0.0014	
DCS-4	21-Jun-07	<1	<2	<2	<2	0.0014	
DCS-4	13-Sep-07	<1	<2	<2	<2	0.0058	
DCS-4	17-Dec-07	<1	<2	<2	<2	0.0078	
DCS-4	03-Mar-08	<1	<2	<2	<2	0.0022	
DCS-4	18-Jun-08	<1	<2	<2	<2	0.0028	
DCS-4	29-Sep-08	<1	<2	<2	<2	0.0098	
DCS-4	29-Sep-08	<1	<2	<2	<2	0.0098	
DCS-4	10-Dec-08	<1	<2	<2	<2	0.006	
DCS-5	13-Apr-04	<1	<2	<2	<2	0.11	
DCS-5	14-Apr-04	<1	<2	<2	<2	0.086	
DCS-5	15-Apr-04	1.3	<2	<2	<2	0.13	
DCS-5	16-Apr-04	<1	<2	<2	<2	0.13	
DCS-5	17-Apr-04	1.3	<2	<2	<2	0.15	
DCS-5	18-Apr-04	1.2	<2	<2	<2	0.15	
DCS-5	19-Apr-04	<1	<2	<2	<2	0.057	
DCS-5	26-Apr-04	<1	<2	<2	<2	0.046	
DCS-5	29-Apr-04	<1	<2	<2	<2	0.014	
DCS-5	03-May-04	<1	<2	<2	<2	0.018	
DCS-5	26-May-04	<1	<2	<2	<2	0.015	
DCS-5	02-Jun-04	<1	<2	<2	<2	0.012	
DCS-5	08-Jul-04	<1	<2	<2	<2	0.016	
DCS-5	03-Aug-04	<1	<2	<2	<2	0.014	
DCS-5	14-Sep-04	<1	<2	<2	<2	0.017	
DCS-5	12-Oct-04	<1	<2	<2	<2	0.044	

## Appendix C

### Summary of Historical Surface-Water Analytical Results

Encana, West Divide Creek Seep

Garfield County, Colorado

Location ID	Date	Benzene (ug/L)	Toluene (ug/L)	Ethylbenzene (ug/L)	Total Xylene (ug/L)	Total Dissolved Methane (mg/L)	Estimated Thermogenic Methane (mg/L)
Colorado RBSLs (ug/L)		5	1000	680	10,000		
DCS-5	26-Oct-04	<1	<2	<2	<2	0.055	
DCS-5	27-Oct-04	<1	<2	<2	<2	0.035	
DCS-5	28-Oct-04	<1	<2	<2	<2	0.028	
DCS-5	29-Oct-04	<1	<2	<2	<2	0.053	
DCS-5	30-Oct-04	<1	<2	<2	<2	0.047	
DCS-5	31-Oct-04	<1	<2	<2	<2	0.052	
DCS-5	01-Nov-04	<1	<2	<2	<2	0.049	
DCS-5	02-Nov-04	<1	<2	<2	<2	0.12	
DCS-5	03-Nov-04	<1	<2	<2	<2	0.072	
DCS-5	04-Nov-04	<1	<2	<2	<2	0.088	
DCS-5	05-Nov-04	<1	<2	<2	<2	0.064	
DCS-5	06-Nov-04	<1	<2	<2	<2	0.06	
DCS-5	07-Nov-04	<1	<2	<2	<2	0.054	
DCS-5	08-Nov-04	<1	<2	<2	<2	0.026	
DCS-5	09-Nov-04	<1	<2	<2	<2	0.35	
DCS-5	10-Nov-04	<1	<2	<2	<2	0.035	
DCS-5	11-Nov-04	<1	<2	<2	<2	0.039	
DCS-5	12-Nov-04	3.6	<2	<2	<2	0.048	
DCS-5	19-Nov-04	<1	<2	<2	<2	0.056	
DCS-5	23-Nov-04	<1	<2	<2	<2	0.11	
DCS-5	02-Dec-04	1.1	<2	<2	<2	0.18	
DCS-5	09-Dec-04	<1	<2	<2	<2	0.029	
DCS-5	15-Dec-04	<1	<2	<2	<2	0.017	
DCS-5	20-Dec-04	<1	<2	<2	<2	0.0034	
DCS-5	23-Dec-04	<1	<2	<2	<2	0.026	
DCS-5	06-Jan-05	<1	<2	<2	<2	0.02	
DCS-5	10-Jan-05	<1	<2	<2	<2	0.012	
DCS-5	20-Jan-05	<1	<2	<2	<2	0.0098	
DCS-5	26-Jan-05	<1	<2	<2	<2	0.013	
DCS-5	04-Feb-05	<1	<2	<2	<2	0.011	
DCS-5	07-Feb-05	<1	<2	<2	<2	0.012	
DCS-5	16-Feb-05	<1	<2	<2	<2	0.011	
DCS-5	24-Feb-05	<1	<2	<2	<2	0.014	
DCS-5	03-Mar-05	<1	<2	<2	<2	0.0086	
DCS-5	07-Mar-05	<1	<2	<2	<2	0.012	
DCS-5	18-Mar-05	<1	<2	<2	<2	0.0099	
DCS-5	23-Mar-05	<1	<2	<2	<2	0.021	
DCS-5	29-Mar-05	<1	<2	<2	<2	0.006	
DCS-5	07-Apr-05	<1	<2	<2	<2	0.014	
DCS-5	11-Apr-05	<1	<2	<2	<2	0.044	

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### Summary of Historical Surface-Water Analytical Results

Encana, West Divide Creek Seep

Garfield County, Colorado

Location ID	Date	Benzene (ug/L)	Toluene (ug/L)	Ethylbenzene (ug/L)	Total Xylene (ug/L)	Total Dissolved Methane (mg/L)	Estimated Thermogenic Methane (mg/L)
Colorado RBSLs (ug/L)		5	1000	680	10,000		
DCS-5	20-Apr-05	<1	<2	<2	<2	0.00091	
DCS-5	27-Apr-05	<1	<2	<2	<2	0.0037	
DCS-5	05-May-05	<1	<2	<2	<2	0.0046	
DCS-5	09-May-05	<1	<2	<2	<2	0.0016	
DCS-5	18-May-05	<1	<2	<2	<2	0.0013	
DCS-5	25-May-05	<1	<2	<2	<2	0.0018	
DCS-5	02-Jun-05	<1	<2	<2	<2	0.0035	
DCS-5	08-Jun-05	<1	<2	<2	<2	0.0049	
DCS-5	15-Jun-05	<1	<2	<2	<2	0.0027	
DCS-5	21-Jun-05	<1	<2	<2	<2	0.0025	
DCS-5	30-Jun-05	<1	<2	<2	<2	0.0052	
DCS-5	07-Jul-05	<1	<2	<2	<2	0.0053	
DCS-5	11-Jul-05	<1	<2	<2	<2	0.0053	
DCS-5	21-Jul-05	<1	<2	<2	<2	0.0079	
DCS-5	27-Jul-05	<1	<2	<2	<2	0.0058	
DCS-5	03-Aug-05	<1	<2	<2	<2	0.0091	
DCS-5	08-Aug-05	<1	<2	<2	<2	0.011	
DCS-5	16-Aug-05	<1	<2	<2	<2	0.0098	
DCS-5	24-Aug-05	<1	<2	<2	<2	0.0074	
DCS-5	02-Sep-05	<1	<2	<2	<2	0.01	
DCS-5	09-Sep-05	<1	<2	<2	<2	0.009	
DCS-5	13-Sep-05	<1	<2	<2	<2	0.0076	
DCS-5	13-Sep-05	<0.5	<5	<0.5	NA	0.012	
DCS-5	13-Sep-05	<1	<2	<2	<2	0.0075	
DCS-5	22-Sep-05	<1	<2	<2	<2	0.002	
DCS-5	29-Sep-05	<1	<2	<2	<2	0.0035	
DCS-5	06-Oct-05	<1	<2	<2	<2	0.028	
DCS-5	10-Oct-05	<1	<2	<2	<2	0.015	
DCS-5	20-Oct-05	<1	<2	<2	<2	0.016	
DCS-5	27-Oct-05	<1	<2	<2	<2	0.018	
DCS-5	03-Nov-05	<1	<2	<2	<2	0.007	
DCS-5	07-Nov-05	<1	<2	<2	<2	0.005	
DCS-5	17-Nov-05	<1	<2	<2	<2	0.0068	
DCS-5	22-Nov-05	<1	<2	<2	<2	0.013	
DCS-5	29-Nov-05	<1	<2	<2	<2	0.023	
DCS-5	06-Dec-05	<1	<2	<2	<2	0.015	
DCS-5	14-Dec-05	<1	<2	<2	<2	0.012	
DCS-5	21-Dec-05	<1	<2	<2	<2	0.0055	
DCS-5	29-Dec-05	<1	<2	<2	<2	0.0048	
DCS-5	05-Jan-06	<1	<2	<2	<2	0.0068	

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### Summary of Historical Surface-Water Analytical Results

Encana, West Divide Creek Seep

Garfield County, Colorado

Location ID	Date	Benzene (ug/L)	Toluene (ug/L)	Ethylbenzene (ug/L)	Total Xylene (ug/L)	Total Dissolved Methane (mg/L)	Estimated Thermogenic Methane (mg/L)
Colorado RBSLs (ug/L)		5	1000	680	10,000		
DCS-5	09-Jan-06	<1	<2	<2	<2	0.0072	
DCS-5	18-Jan-06	<1	<2	<2	<2	0.0074	
DCS-5	24-Jan-06	<1	<2	<2	<2	0.021	
DCS-5	01-Feb-06	<1	<2	<2	<2	0.007	
DCS-5	09-Feb-06	<0.5	<1	<1	<1	0.015	
DCS-5	13-Feb-06	<0.5	<1	<1	<1	<0.002	
DCS-5	13-Feb-06	<0.5	<1	<1	<1	0.009	
DCS-5	13-Feb-06	<0.5	<0.5	<0.5	<0.5	0.013	
DCS-5	22-Feb-06	<1	<2	<2	<2	0.0073	
DCS-5	01-Mar-06	<1	<2	<2	<2	0.0019	
DCS-5	09-Mar-06	<1	<2	<2	<2	0.0041	
DCS-5	14-Mar-06	<1	<2	<2	<2	0.0052	
DCS-5	22-Mar-06	<1	<2	<2	<2	0.0085	
DCS-5	30-Mar-06	<1	<2	<2	<2	0.0025	
DCS-5	05-Apr-06	<1	<2	<2	<2	0.00089	
DCS-5	10-Apr-06	<1	<2	<2	<2	0.0009	
DCS-5	20-Apr-06	<1	<2	<2	<2	<0.0008	
DCS-5	27-Apr-06	<1	<2	<2	<2	<0.0008	
DCS-5	04-May-06	<1	<2	<2	<2	<0.0008	
DCS-5	09-May-06	<1	<2	<2	<2	0.00097	
DCS-5	13-Jun-06	<1	<2	<2	<2	0.0045	
DCS-5	13-Jun-06	<0.5	<0.5	<0.5	<0.5	0.00445	
DCS-5	05-Sep-06	<1	<5	<2	<2	0.01	
DCS-5	04-Dec-06	<1	<5	<2	<2	0.012	
DCS-5	12-Mar-07	<1	<5	<2	<2	0.0026	
DCS-5	21-Jun-07	<1	<2	<2	<2	0.0018	
DCS-5	13-Sep-07	<1	<2	<2	<2	0.0055	
DCS-5	17-Dec-07	<1	<2	<2	<2	0.0077	
DCS-5	04-Mar-08	<1	<2	<2	<2	0.0038	
DCS-5	18-Jun-08	<1	<2	<2	<2	0.0019	
DCS-5	29-Sep-08	<1	<2	<2	<2	0.008	
DCS-5	10-Dec-08	<1	<2	<2	<2	0.0066	
DCS-5	10-Dec-08	<1	<2	<2	<2	0.0062	
DCS-5	10-Dec-08	<1	<1	<1	<1	0.003	
DCS-6	13-Apr-04	<1	<2	<2	<2	0.087	
DCS-6	14-Apr-04	<1	<2	<2	<2	0.063	
DCS-6	15-Apr-04	<1	<2	<2	<2	0.11	
DCS-6	16-Apr-04	<1	<2	<2	<2	0.083	
DCS-6	17-Apr-04	<1	<2	<2	<2	0.11	

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### Summary of Historical Surface-Water Analytical Results

Encana, West Divide Creek Seep

Garfield County, Colorado

Location ID	Date	Benzene (ug/L)	Toluene (ug/L)	Ethylbenzene (ug/L)	Total Xylene (ug/L)	Total Dissolved Methane (mg/L)	Estimated Thermogenic Methane (mg/L)
Colorado RBSLs (ug/L)		5	1000	680	10,000		
DCS-6	18-Apr-04	<1	<2	<2	<2	0.093	
DCS-6	19-Apr-04	<1	<2	<2	<2	0.048	
DCS-6	26-Apr-04	<1	<2	<2	<2	0.035	
DCS-6	29-Apr-04	<1	<2	<2	<2	0.011	
DCS-6	29-Apr-04	<1	<2	<2	<2	0.015	
DCS-6	03-May-04	<1	<2	<2	<2	0.014	
DCS-6	02-Jun-04	<1	<2	<2	<2	0.0091	
DCS-6	08-Jul-04	<1	<2	<2	<2	0.014	
DCS-6	03-Aug-04	<1	<2	<2	<2	0.014	
DCS-6	14-Sep-04	<1	<2	<2	<2	0.031	
DCS-6	12-Oct-04	<1	<2	<2	<2	0.032	
DCS-6	26-Oct-04	<1	<2	<2	<2	0.049	
DCS-6	27-Oct-04	<1	<2	<2	<2	0.023	
DCS-6	28-Oct-04	<1	<2	<2	<2	0.06	
DCS-6	29-Oct-04	<1	<2	<2	<2	0.086	
DCS-6	30-Oct-04	<1	<2	<2	<2	0.034	
DCS-6	31-Oct-04	<1	<2	<2	<2	0.045	
DCS-6	01-Nov-04	<1	<2	<2	<2	0.24	
DCS-6	02-Nov-04	<1	<2	<2	<2	0.093	
DCS-6	03-Nov-04	<1	<2	<2	<2	0.16	
DCS-6	04-Nov-04	<1	<2	<2	<2	0.061	
DCS-6	05-Nov-04	<1	<2	<2	<2	0.039	
DCS-6	06-Nov-04	<1	<2	<2	<2	0.043	
DCS-6	07-Nov-04	<1	<2	<2	<2	0.039	
DCS-6	08-Nov-04	<1	<2	<2	<2	0.017	
DCS-6	09-Nov-04	<1	<2	<2	<2	0.034	
DCS-6	10-Nov-04	<1	<2	<2	<2	0.024	
DCS-6	11-Nov-04	<1	<2	<2	<2	0.026	
DCS-6	12-Nov-04	<1	<2	<2	<2	0.022	
DCS-6	19-Nov-04	<1	<2	<2	<2	0.035	
DCS-6	23-Nov-04	<1	<2	<2	<2	0.069	
DCS-6	02-Dec-04	1.5	<2	<2	<2	-88.8	
DCS-6	09-Dec-04	<1	<2	<2	<2	0.028	
DCS-6	15-Dec-04	<1	<2	<2	<2	0.018	
DCS-6	20-Dec-04	<1	<2	<2	<2	0.036	
DCS-6	23-Dec-04	<1	<2	<2	<2	0.021	
DCS-6	06-Jan-05	<1	<2	<2	<2	0.019	
DCS-6	10-Jan-05	<1	<2	<2	<2	0.011	
DCS-6	20-Jan-05	<1	<2	<2	<2	0.0086	
DCS-6	26-Jan-05	<1	<2	<2	<2	0.013	



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### Summary of Historical Surface-Water Analytical Results

Encana, West Divide Creek Seep

Garfield County, Colorado

Location ID	Date	Benzene (ug/L)	Toluene (ug/L)	Ethylbenzene (ug/L)	Total Xylene (ug/L)	Total Dissolved Methane (mg/L)	Estimated Thermogenic Methane (mg/L)
Colorado RBSLs (ug/L)		5	1000	680	10,000		
DCS-6	04-Feb-05	<1	<2	<2	<2	0.0088	
DCS-6	07-Feb-05	<1	<2	<2	<2	0.0091	
DCS-6	16-Feb-05	<1	<2	<2	<2	0.011	
DCS-6	24-Feb-05	<1	<2	<2	<2	0.014	
DCS-6	03-Mar-05	<1	<2	<2	<2	0.0086	
DCS-6	07-Mar-05	<1	<2	<2	<2	0.013	
DCS-6	18-Mar-05	<1	<2	<2	<2	0.01	
DCS-6	23-Mar-05	<1	<2	<2	<2	0.023	
DCS-6	29-Mar-05	<1	<2	<2	<2	0.0052	
DCS-6	07-Apr-05	<1	<2	<2	<2	0.015	
DCS-6	11-Apr-05	<1	<2	<2	<2	0.034	
DCS-6	27-Apr-05	<1	<2	<2	<2	0.003	
DCS-6	05-May-05	<1	<2	<2	<2	0.0045	
DCS-6	09-May-05	<1	<2	<2	<2	0.0022	
DCS-6	18-May-05	<1	<2	<2	<2	0.0019	
DCS-6	25-May-05	<1	<2	<2	<2	0.0025	
DCS-6	02-Jun-05	<1	<2	<2	<2	0.0031	
DCS-6	08-Jun-05	<1	<2	<2	<2	0.0049	
DCS-6	15-Jun-05	<1	<2	<2	<2	0.0044	
DCS-6	21-Jun-05	<1	<2	<2	<2	0.0027	
DCS-6	30-Jun-05	<1	<2	<2	<2	0.0036	
DCS-6	07-Jul-05	<1	<2	<2	<2	0.0068	
DCS-6	11-Jul-05	<1	<2	<2	<2	0.0064	
DCS-6	21-Jul-05	<1	<2	<2	<2	0.012	
DCS-6	27-Jul-05	<1	<2	<2	<2	0.0066	
DCS-6	03-Aug-05	<1	<2	<2	<2	0.0081	
DCS-6	08-Aug-05	<1	<2	<2	<2	0.018	
DCS-6	16-Aug-05	<1	<2	<2	<2	0.016	
DCS-6	24-Aug-05	<1	<2	<2	<2	0.013	
DCS-6	02-Sep-05	<1	<2	<2	<2	0.013	
DCS-6	09-Sep-05	<1	<2	<2	<2	0.0086	
DCS-6	13-Sep-05	<1	<2	<2	<2	0.011	
DCS-6	22-Sep-05	<1	<2	<2	<2	0.0021	
DCS-6	29-Sep-05	<1	<2	<2	<2	0.0033	
DCS-6	06-Oct-05	<1	<2	<2	<2	0.027	
DCS-6	10-Oct-05	<1	<2	<2	<2	0.014	
DCS-6	10-Oct-05	<1	<2	<2	<2	0.015	
DCS-6	10-Oct-05	<0.5	<5	<0.5	<0.5	0.019	
DCS-6	20-Oct-05	<1	<2	<2	<2	0.014	
DCS-6	27-Oct-05	<1	<2	<2	<2	0.012	

## Appendix C

### Summary of Historical Surface-Water Analytical Results

Encana, West Divide Creek Seep

Garfield County, Colorado

Location ID	Date	Benzene (ug/L)	Toluene (ug/L)	Ethylbenzene (ug/L)	Total Xylene (ug/L)	Total Dissolved Methane (mg/L)	Estimated Thermogenic Methane (mg/L)
Colorado RBSLs (ug/L)		5	1000	680	10,000		
DCS-6	03-Nov-05	<1	<2	<2	<2	0.0066	
DCS-6	07-Nov-05	<1	<2	<2	<2	0.0059	
DCS-6	17-Nov-05	<1	<2	<2	<2	0.007	
DCS-6	22-Nov-05	<1	<2	<2	<2	0.013	
DCS-6	29-Nov-05	<1	<2	<2	<2	0.021	
DCS-6	06-Dec-05	<1	<2	<2	<2	0.015	
DCS-6	06-Dec-05	<1	<2	<2	<2	0.014	
DCS-6	06-Dec-05	<0.5	<5	<0.5	NA	0.014	
DCS-6	14-Dec-05	<1	<2	<2	<2	0.011	
DCS-6	21-Dec-05	<1	<2	<2	<2	0.0064	
DCS-6	29-Dec-05	<1	<2	<2	<2	0.0026	
DCS-6	05-Jan-06	<1	<2	<2	<2	0.0056	
DCS-6	09-Jan-06	<1	<2	<2	<2	0.0078	
DCS-6	18-Jan-06	<1	<2	<2	<2	0.0066	
DCS-6	24-Jan-06	<1	<2	<2	<2	0.036	
DCS-6	01-Feb-06	<1	<2	<2	<2	0.0056	
DCS-6	09-Feb-06	<0.5	<1	<1	<1	0.016	
DCS-6	13-Feb-06	<0.5	<1	<1	<1	<0.002	
DCS-6	22-Feb-06	<1	<2	<2	<2	0.0066	
DCS-6	01-Mar-06	<1	<2	<2	<2	0.0019	
DCS-6	09-Mar-06	<1	<2	<2	<2	0.0056	
DCS-6	14-Mar-06	<0.25	<0.25	<0.25	<0.25	0.0143	
DCS-6	14-Mar-06	<1	<2	<2	<2	0.012	
DCS-6	14-Mar-06	<1	<2	<2	<2	0.012	
DCS-6	22-Mar-06	<1	<2	<2	<2	0.0096	
DCS-6	30-Mar-06	<1	<2	<2	<2	0.0058	
DCS-6	05-Apr-06	<1	<2	<2	<2	0.00089	
DCS-6	10-Apr-06	<1	<2	<2	<2	0.00089	
DCS-6	20-Apr-06	<1	<2	<2	<2	0.00098	
DCS-6	27-Apr-06	<1	<2	<2	<2	<0.0008	
DCS-6	04-May-06	<1	<2	<2	<2	0.00084	
DCS-6	09-May-06	<1	<2	<2	<2	0.00083	
DCS-6	13-Jun-06	<1	<2	<2	<2	0.0054	
DCS-6	05-Sep-06	<1	<5	<2	<2	0.013	
DCS-6	04-Dec-06	<1	<5	<2	<2	0.013	
DCS-6	12-Mar-07	<1	<5	<2	<2	0.0035	
DCS-6	21-Jun-07	<1	<2	<2	<2	0.0025	
DCS-6	13-Sep-07	<1	<2	<2	<2	NA	
DCS-6	17-Dec-07	<1	<2	<2	<2	0.0078	
DCS-6	04-Mar-08	<1	<2	<2	<2	0.0047	

## Appendix C

### Summary of Historical Surface-Water Analytical Results

Encana, West Divide Creek Seep

Garfield County, Colorado

Location ID	Date	Benzene (ug/L)	Toluene (ug/L)	Ethylbenzene (ug/L)	Total Xylene (ug/L)	Total Dissolved Methane (mg/L)	Estimated Thermogenic Methane (mg/L)
Colorado RBSLs (ug/L)		5	1000	680	10,000		
DCS-6	18-Jun-08	<1	<2	<2	<2	0.0029	
DCS-6	29-Sep-08	<1	<2	<2	<2	0.011	
DCS-6	10-Dec-08	<1	<2	<2	<2	0.085	
DCS-7	09-Dec-04	<1	<2	<2	<2	0.026	
DCS-7	15-Dec-04	<1	<2	<2	<2	0.016	
DCS-7	20-Dec-04	<1	<2	<2	<2	0.031	
DCS-7	23-Dec-04	<1	<2	<2	<2	0.019	
DCS-7	06-Jan-05	<1	<2	<2	<2	0.018	
DCS-7	10-Jan-05	<1	<2	<2	<2	0.01	
DCS-7	20-Jan-05	<1	<2	<2	<2	0.0082	
DCS-7	26-Jan-05	<1	<2	<2	<2	0.012	
DCS-7	04-Feb-05	<1	<2	<2	<2	0.0087	
DCS-7	07-Feb-05	<1	<2	<2	<2	0.0092	
DCS-7	16-Feb-05	<1	<2	<2	<2	0.0094	
DCS-7	24-Feb-05	<1	<2	<2	<2	0.012	
DCS-7	03-Mar-05	<1	<2	<2	<2	0.0081	
DCS-7	07-Mar-05	<1	<2	<2	<2	0.01	
DCS-7	18-Mar-05	<1	<2	<2	<2	0.0087	
DCS-7	23-Mar-05	<1	<2	<2	<2	0.017	
DCS-7	29-Mar-05	<1	<2	<2	<2	0.0049	
DCS-7	07-Apr-05	<1	<2	<2	<2	0.0097	
DCS-7	11-Apr-05	<1	<2	<2	<2	0.033	
DCS-7	27-Apr-05	<1	<2	<2	<2	0.0027	
DCS-7	05-May-05	<1	<2	<2	<2	0.0038	
DCS-7	09-May-05	<1	<2	<2	<2	0.0021	
DCS-7	18-May-05	<1	<2	<2	<2	0.0016	
DCS-7	25-May-05	<1	<2	<2	<2	0.0018	
DCS-7	02-Jun-05	<1	<2	<2	<2	0.0031	
DCS-7	08-Jun-05	<1	<2	<2	<2	0.0041	
DCS-7	15-Jun-05	<1	<2	<2	<2	0.0027	
DCS-7	21-Jun-05	<1	<2	<2	<2	0.0027	
DCS-7	30-Jun-05	<1	<2	<2	<2	0.0036	
DCS-7	07-Jul-05	<1	<2	<2	<2	0.0054	
DCS-7	11-Jul-05	<1	<2	<2	<2	0.0051	
DCS-7	21-Jul-05	<1	<2	<2	<2	0.0082	
DCS-7	27-Jul-05	<1	<2	<2	<2	0.0053	
DCS-7	03-Aug-05	<1	<2	<2	<2	0.0074	
DCS-7	08-Aug-05	<1	<2	<2	<2	0.0099	
DCS-7	16-Aug-05	<1	<2	<2	<2	0.0098	

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### Summary of Historical Surface-Water Analytical Results

Encana, West Divide Creek Seep

Garfield County, Colorado

Location ID	Date	Benzene (ug/L)	Toluene (ug/L)	Ethylbenzene (ug/L)	Total Xylene (ug/L)	Total Dissolved Methane (mg/L)	Estimated Thermogenic Methane (mg/L)
Colorado RBSLs (ug/L)		5	1000	680	10,000		
DCS-7	24-Aug-05	<1	<2	<2	<2	0.0085	
DCS-7	02-Sep-05	<1	<2	<2	<2	0.0085	
DCS-7	09-Sep-05	<1	<2	<2	<2	0.0074	
DCS-7	13-Sep-05	<1	<2	<2	<2	0.0079	
DCS-7	22-Sep-05	<1	<2	<2	<2	0.0021	
DCS-7	29-Sep-05	<1	<2	<2	<2	0.0034	
DCS-7	06-Oct-05	<1	<2	<2	<2	0.025	
DCS-7	10-Oct-05	<1	<2	<2	<2	0.013	
DCS-7	20-Oct-05	<1	<2	<2	<2	0.0096	
DCS-7	27-Oct-05	<1	<2	<2	<2	0.01	
DCS-7	03-Nov-05	<1	<2	<2	<2	0.0064	
DCS-7	07-Nov-05	<1	<2	<2	<2	0.0052	
DCS-7	17-Nov-05	<1	<2	<2	<2	0.0066	
DCS-7	22-Nov-05	<1	<2	<2	<2	0.012	
DCS-7	29-Nov-05	<1	<2	<2	<2	0.022	
DCS-7	06-Dec-05	<1	<2	<2	<2	0.015	
DCS-7	14-Dec-05	<1	<2	<2	<2	0.013	
DCS-7	21-Dec-05	<1	<2	<2	<2	0.0067	
DCS-7	29-Dec-05	<1	<2	<2	<2	0.0044	
DCS-7	05-Jan-06	<1	<2	<2	<2	0.0058	
DCS-7	09-Jan-06	<1	<2	<2	<2	0.008	
DCS-7	18-Jan-06	<1	<2	<2	<2	0.0055	
DCS-7	24-Jan-06	<1	<2	<2	<2	0.02	
DCS-7	01-Feb-06	<1	<2	<2	<2	0.0053	
DCS-7	09-Feb-06	<0.5	<1	<1	<1	0.017	
DCS-7	13-Feb-06	<0.5	<1	<1	<1	<0.002	
DCS-7	22-Feb-06	<1	<2	<2	<2	0.004	
DCS-7	01-Mar-06	<1	<2	<2	<2	0.002	
DCS-7	09-Mar-06	<1	<2	<2	<2	0.0039	
DCS-7	14-Mar-06	<1	<2	<2	<2	0.01	
DCS-7	22-Mar-06	<1	<2	<2	<2	0.0084	
DCS-7	30-Mar-06	<1	<2	<2	<2	0.0025	
DCS-7	05-Apr-06	<1	<2	<2	<2	0.00079	
DCS-7	10-Apr-06	<1	<2	<2	<2	0.00077	
DCS-7	20-Apr-06	<1	<2	<2	<2	0.00089	
DCS-7	27-Apr-06	<1	<2	<2	<2	<0.0008	
DCS-7	04-May-06	<1	<2	<2	<2	0.0014	
DCS-7	09-May-06	<1	<2	<2	<2	<0.0008	
DCS-7	13-Jun-06	<1	<2	<2	<2	0.0053	
DCS-7	05-Sep-06	<1	<5	<2	<2	0.01	

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### Summary of Historical Surface-Water Analytical Results

Encana, West Divide Creek Seep

Garfield County, Colorado

Location ID	Date	Benzene (ug/L)	Toluene (ug/L)	Ethylbenzene (ug/L)	Total Xylene (ug/L)	Total Dissolved Methane (mg/L)	Estimated Thermogenic Methane (mg/L)
Colorado RBSLs (ug/L)		5	1000	680	10,000		
DCS-7	04-Dec-06	<1	<5	<2	<2	0.011	
DCS-7	12-Mar-07	<1	<5	<2	<2	0.0027	
DCS-7	21-Jun-07	<1	<2	<2	<2	0.002	
DCS-7	13-Sep-07	<1	<2	<2	<2	-88.8	
DCS-7	17-Dec-07	<1	<2	<2	<2	0.0078	
DCS-7	04-Mar-08	<1	<2	<2	<2	0.004	
DCS-7	18-Jun-08	<1	<2	<2	<2	0.0022	
DCS-7	29-Sep-08	<1	<2	<2	<2	0.0084	
DCS-7	10-Dec-08	<1	<2	<2	<2	0.0083	
DCS-8	09-Dec-04	<1	<2	<2	<2	0.021	
DCS-8	15-Dec-04	<1	<2	<2	<2	0.013	
DCS-8	20-Dec-04	<1	<2	<2	<2	0.026	
DCS-8	23-Dec-04	<1	<2	<2	<2	0.016	
DCS-8	06-Jan-05	<1	<2	<2	<2	0.016	
DCS-8	10-Jan-05	<1	<2	<2	<2	0.0098	
DCS-8	20-Jan-05	<1	<2	<2	<2	0.0075	
DCS-8	26-Jan-05	<1	<2	<2	<2	0.013	
DCS-8	04-Feb-05	<1	<2	<2	<2	0.0075	
DCS-8	07-Feb-05	<1	<2	<2	<2	0.0076	
DCS-8	16-Feb-05	<1	<2	<2	<2	0.0074	
DCS-8	24-Feb-05	<1	<2	<2	<2	0.0099	
DCS-8	03-Mar-05	<1	<2	<2	<2	0.0058	
DCS-8	07-Mar-05	<1	<2	<2	<2	0.0086	
DCS-8	18-Mar-05	<1	<2	<2	<2	0.0075	
DCS-8	23-Mar-05	<1	<2	<2	<2	0.013	
DCS-8	29-Mar-05	<1	<2	<2	<2	0.0041	
DCS-8	07-Apr-05	<1	<2	<2	<2	0.0083	
DCS-8	11-Apr-05	<1	<2	<2	<2	0.025	
DCS-8	27-Apr-05	<1	<2	<2	<2	0.0027	
DCS-8	05-May-05	<1	<2	<2	<2	0.0032	
DCS-8	09-May-05	<1	<2	<2	<2	0.0019	
DCS-8	18-May-05	<1	<2	<2	<2	0.002	
DCS-8	25-May-05	<1	<2	<2	<2	0.0017	
DCS-8	02-Jun-05	<1	<2	<2	<2	0.0032	
DCS-8	08-Jun-05	<1	<2	<2	<2	0.0045	
DCS-8	15-Jun-05	<1	<2	<2	<2	0.0025	
DCS-8	21-Jun-05	<1	<2	<2	<2	0.0024	
DCS-8	30-Jun-05	<1	<2	<2	<2	0.0034	
DCS-8	07-Jul-05	<1	<2	<2	<2	0.0047	

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### Summary of Historical Surface-Water Analytical Results

Encana, West Divide Creek Seep

Garfield County, Colorado

Location ID	Date	Benzene (ug/L)	Toluene (ug/L)	Ethylbenzene (ug/L)	Total Xylene (ug/L)	Total Dissolved Methane (mg/L)	Estimated Thermogenic Methane (mg/L)
Colorado RBSLs (ug/L)		5	1000	680	10,000		
DCS-8	11-Jul-05	<1	<2	<2	<2	0.0044	
DCS-8	21-Jul-05	<1	<2	<2	<2	0.0072	
DCS-8	27-Jul-05	<1	<2	<2	<2	0.0038	
DCS-8	03-Aug-05	<1	<2	<2	<2	0.0099	
DCS-8	08-Aug-05	<0.5	<5	<2	NA	<0.01	
DCS-8	08-Aug-05	<1	<2	<2	<2	0.0075	
DCS-8	08-Aug-05	<1	<2	<2	<2	0.0072	
DCS-8	16-Aug-05	<1	<2	<2	<2	0.0083	
DCS-8	24-Aug-05	<1	<2	<2	<2	0.0065	
DCS-8	02-Sep-05	<1	<2	<2	<2	0.0066	
DCS-8	09-Sep-05	<1	<2	<2	<2	0.0068	
DCS-8	13-Sep-05	<1	<2	<2	<2	0.0064	
DCS-8	22-Sep-05	<1	<2	<2	<2	0.0018	
DCS-8	29-Sep-05	<1	<2	<2	<2	0.0032	
DCS-8	06-Oct-05	<1	<2	<2	<2	0.026	
DCS-8	10-Oct-05	<1	<2	<2	<2	0.0097	
DCS-8	20-Oct-05	<1	<2	<2	<2	0.011	
DCS-8	27-Oct-05	<1	<2	<2	<2	0.0091	
DCS-8	03-Nov-05	<1	<2	<2	<2	0.0065	
DCS-8	07-Nov-05	<1	<2	<2	<2	0.0043	
DCS-8	17-Nov-05	<1	<2	<2	<2	0.0066	
DCS-8	22-Nov-05	<1	<2	<2	<2	0.012	
DCS-8	29-Nov-05	<1	<2	<2	<2	0.021	
DCS-8	06-Dec-05	<1	<2	<2	<2	0.013	
DCS-8	14-Dec-05	<1	<2	<2	<2	0.073	
DCS-8	21-Dec-05	<1	<2	<2	<2	0.0073	
DCS-8	29-Dec-05	<1	<2	<2	<2	-88.8	
DCS-8	05-Jan-06	<1	<2	<2	<2	0.006	
DCS-8	09-Jan-06	<1	<2	<2	<2	0.0081	
DCS-8	18-Jan-06	<1	<2	<2	<2	0.005	
DCS-8	24-Jan-06	<1	<2	<2	<2	0.018	
DCS-8	01-Feb-06	<1	<2	<2	<2	0.0056	
DCS-8	09-Feb-06	<0.5	<1	<2	<1	0.015	
DCS-8	13-Feb-06	<0.5	<1	<2	<1	<0.002	
DCS-8	22-Feb-06	<1	<2	<2	<2	0.0052	
DCS-8	01-Mar-06	<1	<2	<2	<2	0.0018	
DCS-8	09-Mar-06	<1	<2	<2	<2	0.0038	
DCS-8	14-Mar-06	<1	<2	<2	<2	0.0088	
DCS-8	22-Mar-06	<1	<2	<2	<2	0.008	
DCS-8	30-Mar-06	<1	<2	<2	<2	0.0024	

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### Summary of Historical Surface-Water Analytical Results

Encana, West Divide Creek Seep

Garfield County, Colorado

Location ID	Date	Benzene (ug/L)	Toluene (ug/L)	Ethylbenzene (ug/L)	Total Xylene (ug/L)	Total Dissolved Methane (mg/L)	Estimated Thermogenic Methane (mg/L)
Colorado RBSLs (ug/L)		5	1000	680	10,000		
DCS-8	05-Apr-06	<1	<2	<2	<2	0.00083	
DCS-8	10-Apr-06	<1	<2	<2	<2	<0.0008	
DCS-8	20-Apr-06	<1	<2	<2	<2	0.0008	
DCS-8	27-Apr-06	<1	<2	<2	<2	<0.0008	
DCS-8	04-May-06	<1	<2	<2	<2	0.0013	
DCS-8	09-May-06	<1	<2	<2	<2	0.0011	
DCS-8	13-Jun-06	<1	<2	<2	<2	0.0043	
DCS-8	05-Sep-06	<1	<5	<2	<2	0.0084	
DCS-8	04-Dec-06	<1	<5	<2	<2	0.011	
DCS-8	12-Mar-07	<1	<5	<2	<2	0.0022	
DCS-8	21-Jun-07	<1	<2	<2	<2	0.0017	
DCS-8	13-Sep-07	<1	<2	<2	<2	0.0064	
DCS-8	13-Sep-07	<1	<2	<2	<2	0.005	
DCS-8	17-Dec-07	<1	<2	<2	<2	0.0058	
DCS-8	04-Mar-08	<1	<2	<2	<2	0.0034	
DCS-8	18-Jun-08	<1	<2	<2	<2	0.0023	
DCS-8	29-Sep-08	<1	<2	<2	<2	0.0065	
DCS-8	10-Dec-08	<1	<2	<2	<2	0.006	

**Bold - indicates value exceeds state standard**

mg/l - milligrams/liter

ug/l - micrograms/liter

Total number of observations for all points over all dates:

970

# **APPENDIX D**

## **Historical Eicher-Bracken Results**



## Appendix D

Historical Data - Eicher-Bracken Sampling Point  
Encana, West Divide Creek Seep  
Garfield County, Colorado

Sample ID	Seq	Date	Benzene (ug/L)	Toluene (ug/L)	Ethylbenzene (ug/L)	Total Xylene (ug/L)	Total Dissolved Methane (mg/L)
Colorado RBSLs			5	1000	680	10000	
EP-01		4/8/04	< 1	< 2	< 2	< 2	0.015
E2		9/16/04	< 1	< 2	< 2	< 2	0.16
E2		4/20/05	< 1	< 2	< 2	< 2	0.0015
E2		5/18/05	< 1	< 2	< 2	< 2	0.0035
E2		6/9/05	< 1	< 2	< 2	< 2	0.43
E2	Dup	6/9/05	< 1	< 2	< 2	< 2	0.51
E2	Split	6/9/05	< 0.5	< 5	< 0.5	< 1.5	0.13
E2		7/13/05	< 1	< 2	< 2	< 2	0.41
E2		8/10/05	< 1	< 2	< 2	< 2	0.23
E2		9/8/05	< 1	< 2	< 2	< 2	0.11
E2		10/6/05	< 1	< 2	< 2	< 2	0.12
E2		11/3/05	< 1	< 2	< 2	< 2	0.095
E2		12/12/05	< 1	< 2	< 2	< 2	0.0012
E2		1/10/06	< 1	< 2	< 2	< 2	0.037
E2		2/15/06	< 1	< 2	< 2	< 2	0.027
E2		3/16/06	< 1	< 2	< 2	< 2	0.13
E2		4/11/06	< 1	< 2	< 2	< 2	0.16
E2		5/3/06	< 1	< 2	< 2	< 2	0.14
E2		6/6/06	< 1	< 2	< 2	< 2	0.059
E2		7/21/06	< 1	< 2	< 2	< 2	0.16
E2		7/28/06	< 1	< 2	< 2	< 2	0.068
E2		8/4/06	< 1	< 2	< 2	< 2	0.085
E2		8/11/06	< 1	< 2	< 2	< 2	0.051
E2		8/16/06	< 1	< 2	< 2	< 2	0.064
E2		8/24/06	< 1	< 2	< 2	< 2	0.05
E2		8/31/06	< 1	< 2	< 2	< 2	0.041
E2		9/6/06	< 1	< 2	< 2	< 2	0.038
E2		9/13/06	< 1	< 2	< 2	< 2	0.03
E2		9/21/06	< 1	< 2	< 2	< 2	0.052
E2		9/27/06	< 1	< 2	< 2	< 2	0.018
E2		10/6/06	< 1	< 2	< 2	< 2	0.013
E2		10/12/06	< 1	< 2	< 2	< 2	0.028
E2		10/19/06	< 1	< 2	< 2	< 2	0.016
E2		10/25/06	< 1	< 2	< 2	< 2	0.0061
E2	Dup	10/25/06	< 1	< 2	< 2	< 2	0.0098
E2	Split	10/25/06	< 0.25	< 0.25	< 0.25	< 0.5	0.00274
E2		11/1/06	< 1	< 2	< 2	< 2	0.0076
E2		11/17/06	< 1	< 2	< 2	< 2	0.0025
E2		12/6/06	< 1	< 2	< 2	< 2	0.0067
E2		1/3/07	< 1	< 2	< 2	< 2	0.0075
E2		1/17/07	< 1	< 2	< 2	< 2	0.0095
E2		2/5/07	< 1	< 2	< 2	< 2	0.011
E2		2/22/07	< 1	< 2	< 2	< 2	0.024
E2		3/7/07	< 1	< 2	< 2	< 2	0.02
E2		3/13/07	< 1	< 2	< 2	< 2	0.018

## Appendix D

Historical Data - Eicher-Bracken Sampling Point  
Encana, West Divide Creek Seep  
Garfield County, Colorado

Sample ID	Seq	Date	Benzene (ug/L)	Toluene (ug/L)	Ethylbenzene (ug/L)	Total Xylene (ug/L)	Total Dissolved Methane (mg/L)
Colorado RBSLs			5	1000	680	10000	
E2		3/26/07	< 1	< 2	< 2	< 2	0.032
E2		4/11/07	< 1	< 2	< 2	< 2	0.049
E2		4/25/07	< 0.5	< 5	< 0.5	NS	0.055
E2		5/8/07	< 0.5	< 5	< 0.5	NS	0.054
E2		5/30/07	< 1	< 2	< 2	< 2	0.012
E2		6/13/07	< 1	< 2	< 2	< 2	0.0095
E2		6/22/07	< 1	< 2	< 2	< 2	0.0096
E2		7/5/07	< 1	< 2	< 2	< 2	0.017
E2		7/20/07	< 1	< 2	< 2	< 2	0.047
E2		8/2/07	< 1	< 2	< 2	< 2	0.082
E2		8/15/07	< 1	< 2	< 2	< 2	0.1
E2		9/10/07	< 1	< 2	< 2	< 2	0.043
E2		9/24/07	< 1	< 2	< 2	< 2	0.11
E2		10/9/07	< 1	< 2	< 2	< 2	< 0.0008
E2		10/24/07	< 0.5	< 5	< 0.5	< 2	< 0.0008
EDC-1		11/2/07	< 1	< 2	< 2	< 2	0.0041
EDC-2		11/2/07	< 0.5	< 5	< 0.5	NS	0.0089
E2		11/7/07	< 0.5	< 5	< 0.5	< 2	< 0.0008
E2		11/20/07	< 1	< 2	< 2	< 2	< 0.0008
E2		12/4/07	< 1	< 2	< 2	< 2	< 0.0008
E2		12/18/07	< 1	< 2	< 2	< 2	< 0.0008
E2		1/3/08	< 1	< 2	< 2	< 2	0.012
E2		3/4/08	< 1	< 2	< 2	< 2	0.0095
EICH1		5/21/08	< 0.5	< 5	< 0.5	< 1.5	< 0.01
ECH2WW		9/29/08	< 1	< 2	< 2	< 2	< 0.0008
EICH1		12/1/08	< 0.5	< 5	< 0.5	< 1.5	< 0.010

**Bold - Indicates Value exceeds state standard**

ug/L = micrograms per liter

mg/L = milligrams per liter

< - below laborator reporting limit

NS - Not sampled

Dup - Duplicate sample

Split - Split sample

# **APPENDIX E**

## **Historical QA/QC Results Surface and Ground Water**

**Appendix E**  
Summary of Historical QA/QC Samples  
Encana, West Divide Seep  
Garfield County, Colorado

Sample ID	Seq	Date	Benzene (ug/L)	Toluene (ug/L)	Ethylbenzene (ug/L)	Total Xylene (ug/L)	Total Dissolved Methane (mg/L)
Colorado RBSLs			5	1000	680	10000	
DCS-1		1/10/05	< 1	< 2	< 2	< 2	0.0022
DCS-1	Dup	1/10/05	< 1	< 2	< 2	< 2	0.0023
DCS-1	Split	1/10/05	< 0.5	< 5	< 0.5	< 1.5	< 0.01
DCS-1		3/7/05	< 1	< 2	< 2	< 2	0.0014
DCS-1	Dup	3/7/05	< 1	< 2	< 2	< 2	0.0014
DCS-1	Split	3/7/05	< 0.5	< 5	< 0.5	< 1.5	< 0.01
DCS-1		12/4/06	< 1	< 5	< 2	< 2	0.0015
DCS-1	Dup	12/4/06	< 1	< 5	< 2	< 2	0.0015
DCS-1	Split	12/4/06	< 0.25	< 0.25	< 0.25	< 0.5	0.0005
DCS-2		10/12/04	4.3	< 2	< 2	< 2	0.36
DCS-2	Dup	10/12/04	4.1	< 2	< 2	< 2	0.36
DCS-2	Split	10/12/04	3.6	< 2	< 2	< 1.5	0.18
DCS-2		5/9/05	< 1	< 2	< 2	< 2	0.0084
DCS-2	Dup	5/9/05	< 1	< 2	< 2	< 2	0.0098
DCS-2	Split	5/9/05	< 0.5	< 5	< 0.5	< 1.5	0.012
DCS-2		4/10/06	< 1	< 2	< 2	< 2	< 0.0008
DCS-2	Dup	4/10/06	< 1	< 2	< 2	< 2	< 0.0008
DCS-2	Split	4/10/06	< 0.25	< 0.25	< 0.25	< 0.5	0.00061
DCS-2		9/5/06	< 1	< 5	< 2	< 2	0.0054
DCS-2	Dup	9/5/06	< 1	< 5	< 2	< 2	0.0057
DCS-2	Split	9/5/06	< 0.25	< 0.25	< 0.25	< 0.5	0.00269
DCS-2		3/12/07	< 1	< 5	< 2	< 2	0.072
DCS-2	Dup.	3/12/07	< 1	< 5	< 2	< 2	0.11
DCS-2	Split	3/12/07	< 1	< 5	< 2	< 2	0.0735
DCS-2		6/21/07	< 1	< 2	< 2	< 2	0.0019
DCS-2	Dup	6/21/07	< 1	< 2	< 2	< 2	0.002
DCS-2	Split	6/21/07	< 0.25	< 0.25	< 0.25	< 0.5	0.991
DCS-2		3/3/08	< 1	< 2	< 2	< 2	0.00096
DCS-2	Dup	3/3/08	< 1	< 2	< 2	< 2	0.0011
DCS-2	Split	3/3/08	< 0.5	< 0.5	< 0.5	< 1	0.000488
DCS-3		4/16/04	<b>5.7</b>	4.2	< 2	< 2	0.38
DCS-3	Dup	4/16/04	<b>5.8</b>	4.2	< 2	2.3	0.33
DCS-3		12/9/04	< 1	< 2	< 2	< 2	0.077
DCS-3	Dup	12/9/04	< 1	< 2	< 2	< 2	0.079
DCS-3	Split	12/9/04	< 0.5	< 5	< 0.5	< 1.5	0.058
DCS-3		6/8/05	< 1	< 2	< 2	< 2	0.0035
DCS-3	Dup	6/8/05	< 1	< 2	< 2	< 2	0.0037
DCS-3	Split	6/8/05	< 0.5	< 5	< 0.5	< 1.5	< 0.01
DCS-3		7/11/05	< 1	< 2	< 2	< 2	0.0069
DCS-3	Dup	7/11/05	< 1	< 2	< 2	< 2	0.006
DCS-3	Split	7/11/05	< 0.5	< 5	0.53	2.6	0.017
DCS-3		5/9/06	< 1	< 2	< 2	< 2	< 0.0008
DCS-3	Dup	5/9/06	< 1	< 2	< 2	< 2	< 0.0008

**Appendix E**  
Summary of Historical QA/QC Samples  
Encana, West Divide Seep  
Garfield County, Colorado

Sample ID	Seq	Date	Benzene (ug/L)	Toluene (ug/L)	Ethylbenzene (ug/L)	Total Xylene (ug/L)	Total Dissolved Methane (mg/L)
Colorado RBSLs			5	1000	680	10000	
DCS-3	Split	5/9/06	< 0.5	< 0.5	< 0.5	< 1	0.000849
DCS-3		12/17/07	< 1	< 2	< 2	< 2	0.0032
DCS-3	Dup	12/17/07	< 1	< 2	< 2	< 2	0.0034
DCS-3	Rep	12/17/07	< 0.5	< 5	< 0.5	< 0	0.00371
DCS-4		2/7/05	< 1	< 2	< 2	< 2	0.0096
DCS-4	Dup	2/7/05	< 1	< 2	< 2	< 2	0.0096
DCS-4	Split	2/7/05	< 0.5	< 5	< 0.5	< 1.5	< 0.01
DCS-4		11/7/05	< 1	< 2	< 2	< 2	0.0044
DCS-4	Dup	11/7/05	< 1	< 2	< 2	< 2	0.0034
DCS-4	Split	11/7/05	< 0.5	< 5	< 0.5	< 1.5	< 0.01
DCS-4		1/9/06	< 1	< 2	< 2	< 2	0.0064
DCS-4	Dup	1/9/06	< 1	< 2	< 2	< 2	0.0064
DCS-4	Split	1/9/06	< 0.5	< 1	< 1	< 2	0.005
DCS-4		9/29/08	< 1	< 2	< 2	< 2	0.0098
DCS-4	Dup	9/29/08	< 1	< 2	< 2	< 2	0.0098
DCS-4	Split	9/29/08	< 0.5	< 0.5	< 0.5	< 0.5	0.012
DCS-5		9/13/05	< 1	< 2	< 2	< 2	0.0076
DCS-5	Dup	9/13/05	< 1	< 2	< 2	< 2	0.0075
DCS-5	Split	9/13/05	0.99	< 5	< 0.5	1.9	0.012
DCS-5		2/13/06	< 0.5	< 1	< 1	< 2	< 0.002
DCS-5	Dup	2/13/06	< 0.5	< 1	< 1	< 2	0.009
DCS-5	Split	2/13/06	< 0.5	< 0.5	< 0.5	< 1	0.013
DCS-5		6/13/06	< 1	< 2	< 2	< 2	0.0045
DCS-5	Split	6/13/06	< 0.5	< 0.5	< 0.5	< 1	0.00445
DCS-5		12/10/08	<1	<2	<2	<2	0.0066
DCS-5	Dup	12/10/08	<1	<2	<2	<2	0.0062
DCS-5	Split	12/10/08	<1	<1	<1	<1	0.003
DCS-6		4/29/04	< 1	< 2	< 2	< 2	0.011
DCS-6	Dup	4/29/04	< 1	< 2	< 2	< 2	0.015
DCS-6		10/10/05	< 1	< 2	< 2	< 2	0.014
DCS-6	Dup	10/10/05	< 1	< 2	< 2	< 2	0.015
DCS-6	Split	10/10/05	< 0.5	< 5	< 0.5	< 1.5	0.019
DCS-6		12/6/05	< 1	< 2	< 2	< 2	0.015
DCS-6	Dup	12/6/05	< 1	< 2	< 2	< 2	0.014
DCS-6	Split	12/6/05	< 0.5	< 5	< 0.5	< 1.5	0.014
DCS-6		3/14/06	< 1	< 2	< 2	< 2	0.012
DCS-6	Dup	3/14/06	< 1	< 2	< 2	< 2	0.012
DCS-6	Split	3/14/06	< 0.25	< 0.25	< 0.25	< 0.5	0.0143
DCS-6		6/18/08	< 1	< 2	< 2	< 2	0.0029
DCS-6	Dup	6/18/08	< 1	< 2	< 2	< 2	0.0027
DCS-6	Split	6/18/08	< 1	< 1	< 1	< 3	NS

**Appendix E**  
Summary of Historical QA/QC Samples  
Encana, West Divide Seep  
Garfield County, Colorado

Sample ID	Seq	Date	Benzene (ug/L)	Toluene (ug/L)	Ethylbenzene (ug/L)	Total Xylene (ug/L)	Total Dissolved Methane (mg/L)
Colorado RBSLs			5	1000	680	10000	
DCS-8		8/8/05	< 1	< 2	< 2	< 2	0.0075
DCS-8	Dup	8/8/05	< 1	< 2	< 2	< 2	0.0072
DCS-8	Split	8/8/05	< 0.5	< 5	< 0.5	< 1.5	< 0.01
DCS-8		6/13/06	< 1	< 2	< 2	< 2	0.0043
DCS-8	Dup	6/13/06	< 1	< 2	< 2	< 2	0.0048
DCS-8		9/13/07	< 1	< 2	< 2	< 2	0.0064
DCS-8	Dup	9/13/07	< 1	< 2	< 2	< 2	0.005
MW-1		9/11/07	< 1	< 2	< 2	< 2	0.001
MW-1	Dup	9/11/07	< 1	< 2	< 2	< 2	< 0.0008
MW-1	Split	9/11/07	< 0.5	< 0.5	< 0.5	< 1	0.000144
MW-2		2/9/05	420	< 10	< 10	30	3
MW-2	Dup	2/9/05	420	2.4	8.6	43.5	2.6
MW-2	Split	2/9/05	340	< 5	6.7	33	0.65
MW-2		12/7/05	290	< 10	< 10	46	6.5
MW-2	Dup	12/7/05	270	< 10	< 10	42	5.1
MW-2	Split	12/7/05	290	35	8.1	49	8.4
MW-2		1/11/06	310	< 2	8.5	63.9	8
MW-2	Dup	1/11/06	340	< 2	8.8	62.5	9
MW-2	Split	1/11/06	174	< 2	4.9	36.9	3.1
MW-2		3/12/07	230	< 2	5.8	37.8	7.8
MW-2	Dup.	3/12/07	250	< 2	6.5	43.4	9.4
MW-2	Split	3/12/07	212	< 2	8.05	51.43	0.0691
MW-2		6/20/07	220	< 2	5.3	36.1	6.1
MW-2	Dup	6/20/07	190	< 2	4.6	31.6	4.5
MW-2	Split	6/20/07	94.1	< 0.25	5.5	43.49	0.979
MW-2		3/3/08	120	< 2	2.6	11	5.8
MW-2	Dup	3/3/08	130	< 2	2.7	12	5.9
MW-2	Split	3/3/08	186	< 0.5	5.1	31.2	1.86
MW-4		9/15/04	320	76	9.5	80.5	9.2
MW-4	Dup	9/15/04	330	76	9.1	77.1	8.6
MW-4	Split	9/15/04	240	59	6.7	60	27
MW-4		10/14/04	300	37	9	55.2	5.6
MW-4	Dup	10/14/04	300	51	9	59	9.3
MW-4	Split	10/14/04	210	< 50	6.1	37	4.4
MW-4		12/13/04	270	36	8.1	64.9	14
MW-4	Dup	12/13/04	270	37	7.7	62.6	12
MW-4	Split	12/13/04	240	33	12	97	7.8
MW-4		1/12/05	350	68	11	71.9	14
MW-4	Dup	1/12/05	360	40	11	62.3	14
MW-4	Split	1/12/05	320	35	8.1	49	6.1
MW-4		4/12/05	130	33	< 2	20	8.9
MW-4	Dup	4/12/05	130	52	< 2	24	10

**Appendix E**  
Summary of Historical QA/QC Samples  
Encana, West Divide Seep  
Garfield County, Colorado

Sample ID	Seq	Date	Benzene (ug/L)	Toluene (ug/L)	Ethylbenzene (ug/L)	Total Xylene (ug/L)	Total Dissolved Methane (mg/L)
Colorado RBSLs			5	1000	680	10000	
MW-4	Split	4/12/05	280	< 1200	< 120	< 380	8.7
MW-4		5/9/05	310	66	11	88	10
MW-4	Dup	5/9/05	320	77	11	90	11
MW-4		7/11/05	180	32	3.8	34.9	6.1
MW-4	Dup	7/11/05	170	40	3.3	38.7	7.8
MW-4	Split	7/11/05	0.69	< 1200	< 120	< 380	< 1
MW-4		8/9/05	270	41	< 10	69	8.3
MW-4	Dup	8/9/05	240	46	< 10	65	8.5
MW-4	Split	8/9/05	170	29	2.2	62	2.7
MW-4		1/10/06	270	< 2	6.5	71	8.8
MW-4	Dup	1/10/06	270	< 2	8	73	8.5
MW-4	Split	1/10/06	96.7	< 2	< 2	37	8.3
MW-4		3/12/07	220	< 2	7	67.2	9.8
MW-4	Dup.	3/12/07	200	< 2	6	55.9	7.6
MW-4	Split	3/12/07	172	< 0.25	6.73	69.28	0.0592
MW-4		10/1/08	110	< 2	< 2	33.7	6.2
MW-4	Dup	10/1/08	120	< 2	< 2	34.9	5
MW-4	Split	10/1/08	100	< 0.5	0.69	23.7	4.48
MW-6		12/14/04	< 1	< 2	< 2	< 2	0.054
MW-6	Dup	12/14/04	< 1	< 2	< 2	< 2	0.4
MW-6	Split	12/14/04	< 0.5	< 5	< 0.5	< 1.5	0.071
MW-6		6/8/05	1.3	< 2	< 2	< 2	0.18
MW-6	Dup	6/8/05	2.5	< 2	< 2	< 2	0.22
MW-6	Split	6/8/05	2.2	< 5	< 0.5	< 1.5	0.024
MW-6		9/12/05	2	< 2	< 2	< 2	0.12
MW-6	Dup	9/12/05	1.9	< 2	< 2	< 2	0.16
MW-6	Split	9/12/05	1.9	< 5	< 0.5	< 1.5	< 0.01
MW-6		11/8/05	3.7	< 2	< 2	< 2	0.17
MW-6	Dup	11/8/05	3.6	< 2	< 2	< 2	0.17
MW-6	Split	11/8/05	2.1	< 5	< 0.5	< 1.5	0.41
MW-6		2/14/06	< 0.5	< 1	< 1	< 2	0.15
MW-6	Dup	2/14/06	< 0.5	< 1	< 1	< 2	0.077
MW-6	Split	2/14/06	0.6	< 0.5	< 0.5	< 1	0.128
MW-6		4/12/06	1.1	< 2	< 2	< 2	0.046
MW-6	Dup	4/12/06	1	< 2	< 2	< 2	0.034
MW-6	Split	4/12/06	1.12	< 0.25	< 0.25	< 0.5	0.125
MW-6		9/7/06	< 1	< 5	< 2	< 2	0.038
MW-6	DUP	9/7/06	< 1	< 5	< 2	< 2	0.031
MW-6	Split	9/7/06	< 0.25	< 0.25	< 0.25	< 0.5	0.00523
MW-6		12/17/07	<1	<2	<2	<2	0.0081
MW-6	Dup	12/17/07	< 1	< 2	< 2	< 2	0.008
MW-6	Split	12/17/07	< 0.5	< 5	< 0.5	< 0	0.00846
MW-6		9/30/08	< 1	< 2	< 2	< 2	< 0.008
MW-6	Dup	9/30/08	< 1	< 2	< 2	< 2	< 0.008

**Appendix E**  
Summary of Historical QA/QC Samples  
Encana, West Divide Seep  
Garfield County, Colorado

Sample ID	Seq	Date	Benzene (ug/L)	Toluene (ug/L)	Ethylbenzene (ug/L)	Total Xylene (ug/L)	Total Dissolved Methane (mg/L)
Colorado RBSLs			5	1000	680	10000	
MW-6	Split	9/30/08	< 0.5	< 0.5	< 0.5	< 0.5	< 0.001
MW-7		5/10/05	< 1	< 2	< 2	< 2	< 0.0008
MW-7	Dup	5/10/05	< 1	< 2	< 2	< 2	< 0.0008
MW-7	Split2	5/10/05	< 0.5	< 5	< 0.5	< 1.5	0.031
MW-7		10/11/05	< 1	< 2	< 2	< 2	0.0075
MW-7	Dup	10/11/05	< 1	< 2	< 2	< 2	0.026
MW-7	Split2	10/11/05	< 0.5	< 5	< 0.5	< 1.5	< 0.01
MW-7		9/7/06	< 1	< 2	< 2	< 2	0.047
MW-7	Dup	9/7/06	< 1	< 2	< 2	< 2	0.039
MW-7	Split	9/7/06	< 0.25	< 0.25	< 0.25	< 0.5	0.00163
MW-7		9/21/06	< 1	< 2	< 2	< 2	0.002
MW-7	DUP	9/21/06	< 1	< 2	< 2	< 2	0.0013
MW-7	Split	9/21/06	< 0.25	< 0.25	< 0.25	< 0.5	0.000762
MW-7		6/20/07	< 1	< 2	< 2	< 2	< 0.0008
MW-7	Dup	6/20/07	< 1	< 2	< 2	< 2	0.0013
MW-7	Split	6/20/07	< 0.25	< 0.25	< 0.25	< 0.5	NS
MW-8		11/10/04	<b>140</b>	< 2	< 2	< 2	7.2
MW-8	Dup	11/10/04	<b>150</b>	< 2	< 2	< 2	6.5
MW-8	Split	11/10/04	<b>120</b>	< 5	< 0.5	< 1.5	3.1
MW-8		7/12/05	< 1	< 2	< 2	< 2	0.043
MW-8	Dup	7/12/05	< 1	< 2	< 2	< 2	0.12
MW-8	Split	7/12/05	<b>120</b>	< 5	< 0.5	< 1.5	3.1
MW-8		10/12/05	< 1	< 2	< 2	< 2	0.25
MW-8	Dup	10/12/05	< 1	< 2	< 2	< 2	0.19
MW-8	Split	10/12/05	< 0.5	< 5	< 0.5	< 1.5	< 0.01
MW-8		5/11/06	< 1	< 2	< 2	< 2	0.032
MW-8	Dup	5/11/06	< 1	< 2	< 2	< 2	0.017
MW-8	Split	5/11/06	< 0.5	< 0.5	< 0.5	< 1	0.0649
MW-9		11/9/04	<b>310</b>	160	10	98	10
MW-9	Dup	11/9/04	<b>320</b>	170	11	104	9
MW-9	Split	11/9/04	<b>280</b>	160	9.8	100	14
MW-12		10/13/04	< 1	< 2	< 2	< 2	< 0.0008
MW-12	Dup	10/13/04	< 1	< 2	< 2	< 2	0.17
MW-12	Split	10/13/04	< 1	< 2	< 2	< 1.5	0.12
MW-12		3/15/06	< 1	< 2	< 2	< 2	1.6
MW-12	Dup	3/15/06	< 1	< 2	< 2	< 2	1.4
MW-12	Split	3/15/06	< 0.5	< 0.5	< 0.5	< 1	1.51
MW-16		3/8/05	<b>6.1</b>	< 2	< 2	< 2	0.83
MW-16	Dup	3/8/05	<b>6.3</b>	< 2	< 2	< 2	0.66
MW-16	Split	3/8/05	<b>6.2</b>	< 5	< 0.5	< 1.5	1.7



**Appendix E**  
Summary of Historical QA/QC Samples  
Encana, West Divide Seep  
Garfield County, Colorado

Sample ID	Seq	Date	Benzene (ug/L)	Toluene (ug/L)	Ethylbenzene (ug/L)	Total Xylene (ug/L)	Total Dissolved Methane (mg/L)
Colorado RBSLs			5	1000	680	10000	
MW-18		12/8/05	< 1	< 2	< 2	< 2	0.76
MW-18	Dup	12/8/05	< 1	< 2	< 2	< 2	0.68
MW-18	Split2	12/8/05	< 0.5	< 5	< 0.5	< 1.5	0.8
MW-18		6/13/06	< 1	< 2	< 2	< 2	1.4
MW-18	Dup	6/13/06	< 1	< 2	< 2	< 2	1.2
MW-18	Split	6/13/06	< 0.5	< 0.5	< 0.5	< 1	1.46
MW-18		6/19/08	< 1	< 2	< 2	< 2	0.15
MW-18	Dup	6/19/08	< 1	< 2	< 2	< 2	0.013
MW-18	Split	6/19/08	< 1	< 1	< 1	< 3	NS
MW-22		3/9/05	< 1	< 2	< 2	< 2	0.0043
MW-22	Dup	3/9/05	< 1	< 2	< 2	< 2	0.0034
MW-22	Split2	3/9/05	< 0.5	< 5	< 0.5	< 1.5	< 0.01
MW-24		8/10/05	< 1	< 2	< 2	< 2	< 0.0008
MW-24	Dup	8/10/05	< 1	< 2	< 2	< 2	< 0.0008
MW-24	Split2	8/10/05	< 0.5	< 5	< 0.5	1.9	< 0.01
MW-24		11/9/05	< 1	< 2	< 2	< 2	< 0.0008
MW-24	Dup	11/9/05	< 1	< 2	< 2	< 2	< 0.0008
MW-24	Split2	11/9/05	< 0.5	< 5	< 0.5	< 1.5	< 0.01
MW-24		2/15/06	< 1	< 2	< 2	< 2	< 0.0008
MW-24	Dup	2/15/06	< 1	< 2	< 2	< 2	< 0.0008
MW-24	Split	2/15/06	< 0.5	< 0.5	< 0.5	< 1	< 0.0034
MW-24		12/6/06	< 1	< 2	< 2	< 2	< 0.0008
MW-24	DUP	12/6/06	< 1	< 2	< 2	< 2	< 0.0008
MW-24	Split	12/6/06	< 0.25	< 0.25	< 0.25	< 0.5	0.00028
MW-24		12/10/08	<1	<2	<2	<2	<0.0008
MW-24	Dup	12/10/08	<1	<2	<2	<2	<0.0008
MW-24	Split	12/10/08	<1	<1	<1	<1	<0.001
MW-26		1/13/05	< 1	< 2	< 2	< 2	2.4
MW-26	Dup	1/13/05	< 1	< 2	< 2	< 2	2.1
MW-26	Split	1/13/05	< 0.5	< 5	< 0.5	< 1.5	0.5
MW-26		2/10/05	< 1	< 2	< 2	< 2	2.9
MW-26	Dup	2/10/05	< 1	< 2	< 2	< 2	3.2
MW-26	Split2	2/10/05	< 0.5	< 5	< 0.5	< 1.5	2.9
MW-26		4/13/05	< 1	< 2	< 2	< 2	3.3
MW-26	Dup	4/13/05	< 1	< 2	< 2	< 2	3.3
MW-26	Split2	4/13/05	< 0.5	< 5	< 0.5	< 1.5	3.7
MW-26		5/11/05	< 1	< 2	< 2	< 2	2.3
MW-26	Dup	5/11/05	< 1	< 2	< 2	< 2	2.1
MW-26	Split2	5/11/05	< 0.5	< 5	< 0.5	< 1.5	0.38
MW-26		9/13/05	< 1	< 2	< 2	< 2	0.97
MW-26	Dup	9/13/05	< 1	< 2	< 2	< 2	0.99

## Appendix E

### Summary of Historical QA/QC Samples Encana, West Divide Seep Garfield County, Colorado

Sample ID	Seq	Date	Benzene (ug/L)	Toluene (ug/L)	Ethylbenzene (ug/L)	Total Xylene (ug/L)	Total Dissolved Methane (mg/L)
Colorado RBSLs			5	1000	680	10000	
MW-26	Split2	9/13/05	< 0.5	< 5	< 0.5	< 1.5	1.5
MW-26		3/16/06	< 1	< 2	< 2	< 2	0.83
MW-26	Dup	3/16/06	< 1	< 2	< 2	< 2	0.79
MW-26	Split	3/16/06	< 0.25	< 0.25	< 0.25	< 0.5	0.000377
MW-26		4/12/06	< 1	< 2	< 2	< 2	0.45
MW-26	Dup	4/12/06	< 1	< 2	< 2	< 2	0.6
MW-26	Split	4/12/06	< 0.25	< 0.25	< 0.25	< 0.5	0.858
MW-26		5/11/06	< 1	< 2	< 2	< 2	0.75
MW-26	Dup	5/11/06	< 1	< 2	< 2	< 2	0.74
MW-26	Split	5/11/06	< 0.5	< 0.5	< 0.5	< 1	0.877
MW-26		6/13/06	< 1	< 2	< 2	< 2	0.63
MW-26	Dup	6/13/06	< 1	< 2	< 2	< 2	0.74
MW-26	Split	6/13/06	< 0.5	< 0.5	< 0.5	< 1	0.767
MW-26		12/6/06	< 1	< 2	< 2	< 2	1.1
MW-26	DUP	12/6/06	< 1	< 2	< 2	< 2	0.76
MW-26	Split	12/6/06	< 0.25	< 0.25	< 0.25	< 0.5	0.355
MW-26		6/17/08	< 1	< 2	< 2	< 2	0.55
MW-26	Dup	6/17/08	< 1	< 2	< 2	< 2	0.51
MW-26	Split	6/17/08	< 1	< 1	< 1	< 3	NS
MW-26		12/9/08	<1	<2	<2	<2	0.73
MW-26	Dup	12/9/08	<1	<2	<2	<2	0.79
MW-26	Split	12/9/08	<1	<1	<1	<1	0.145

Bold - Indicates Value exceeds state standard

ug/L = micrograms per liter

mg/L = milligrams per liter

< - below laborator reporting limit

NS - Not sampled

Dup - Duplicate sample

Split - Split sample

Split2 - Split sample

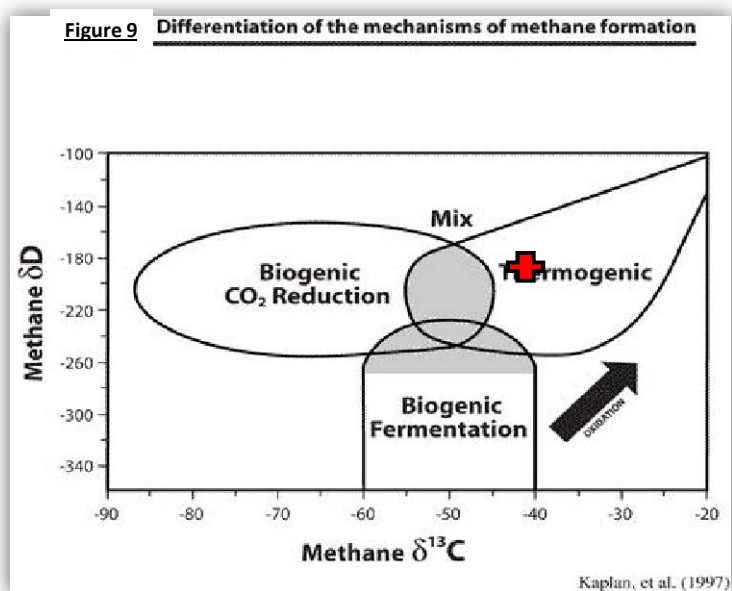
# **Appendix F**

## **Thermogenic Methane Data**

# Appendix F - An Estimation of Thermogenic Data for West Divide Creek Seep

Date	Site ID	Total Methane mg/L	Thermogenic Methane mg/L	$\delta^{13}\text{C}_1$	$\delta\text{DC}_1$	Comment
				per mil	per mil	
10-Dec-08	DCS2	0.0022	<0.0008			Hydrocarbon levels (including methane) too low for accurate analysis
10-Dec-08	DCS3	0.067	<0.0008			Hydrocarbon levels (including methane) too low for accurate analysis
10-Dec-08	MW2	7.3	5.4	-39.880	-178.100	Consistent with thermogenic (or mostly thermogenic) formation
9-Dec-08	MW4	8.6	6.5	-39.680	-186.700	Consistent with thermogenic (or mostly thermogenic) formation
9-Dec-08	MW6	0.0092	<0.0008			Hydrocarbon levels (including methane) too low for accurate analysis
9-Dec-08	MW12	0.13	<0.0008	-45.900	-138.000	Hydrocarbon levels (including methane) too low for accurate analysis
9-Dec-08	MW14	4.7	2.9	-39.650	-185.200	Consistent with thermogenic (or mostly thermogenic) formation
9-Dec-08	MW16	1.2	0.1	-37.050	-169.800	Consistent with thermogenic (or mostly thermogenic) formation
9-Dec-08	MW17	1.9	1.0	-44.020	-191.900	Consistent with thermogenic (or mostly thermogenic) formation
8-Dec-08	MW23	0.45	<0.0008	-64.260	-184.700	Consistent with biogenic formation
8-Dec-08	MW27	0.0008	<0.0008			Hydrocarbon levels (including methane) too low for accurate analysis

	Hydrocarbon levels (including methane) too low for accurate analysis
	Isotech data inconsistent with either thermogenic or biogenic formation
	Consistent with biogenic formation
	All others consistent with thermogenic (or mostly thermogenic) formation



## **Appendix G**

### **Lab Reports**

**Evergreen Analytical Labs: report included as .pdf file on CD in back**

**Energy Labs: report included as .pdf file on CD in back**

**Isotech Labs: report included as .pdf file on CD in back**

**Environmental Science Corp: report included as .pdf file on CD in back**

## WORK ORDER Summary

Evergreen Analytical, Inc.

08-9379

Rpt To: Stuart Hall

12/9/2008 10:57:56 AM

Cordilleran Compliance

Client Project ID: 008-2067

826 21 1/2 Road

Grand Junction, CO 81505

QC Level: LEVEL I

(970) 263-7800

Comments: Add Sample Summary Report to all results packages.

Sample ID	Client Sample ID	Matrix	Collection Date	Date Received	Test Code	Test Name	Hold	MS	Date Due	Hold Time
08-9379-01A	MW27	Water	12/08/08 1100	12/09/08	8021_W *	8021: BTEX	<input type="checkbox"/>	<input type="checkbox"/>	12/12/08	12/15/08
08-9379-01B	MW27	Water	12/08/08 1100	12/09/08	COND_W	Specific Conductance @ 25°C	<input type="checkbox"/>	<input type="checkbox"/>	12/23/08	1/05/09
08-9379-01B	MW27	Water	12/08/08 1100	12/09/08	PH_DW	E150.1 pH	<input type="checkbox"/>	<input type="checkbox"/>	12/23/08	12/09/08
08-9379-01B	MW27	Water	12/08/08 1100	12/09/08	TDS_W	Total Dissolved Solids (TDS)	<input type="checkbox"/>	<input type="checkbox"/>	12/23/08	12/15/08
08-9379-01C	MW27	Water	12/08/08 1100	12/09/08	MEEP_W *	RSK175M: Methane	<input type="checkbox"/>	<input type="checkbox"/>	12/23/08	12/15/08
08-9379-01D	MW27	Water	12/08/08 1100	12/09/08	6010_D *	6010: Dissolved Metals	<input type="checkbox"/>	<input type="checkbox"/>	12/23/08	6/06/09
08-9379-02A	MW23	Water	12/08/08 1120	12/09/08	8021_W *	8021: BTEX	<input type="checkbox"/>	<input type="checkbox"/>	12/12/08	12/15/08
08-9379-02B	MW23	Water	12/08/08 1120	12/09/08	COND_W	Specific Conductance @ 25°C	<input type="checkbox"/>	<input type="checkbox"/>	12/23/08	1/05/09
08-9379-02B	MW23	Water	12/08/08 1120	12/09/08	PH_DW	E150.1 pH	<input type="checkbox"/>	<input type="checkbox"/>	12/23/08	12/09/08
08-9379-02B	MW23	Water	12/08/08 1120	12/09/08	TDS_W	Total Dissolved Solids (TDS)	<input type="checkbox"/>	<input type="checkbox"/>	12/23/08	12/15/08
08-9379-02C	MW23	Water	12/08/08 1120	12/09/08	MEEP_W *	RSK175M: Methane	<input type="checkbox"/>	<input type="checkbox"/>	12/23/08	12/15/08
08-9379-02D	MW23	Water	12/08/08 1120	12/09/08	6010_D *	6010: Dissolved Metals	<input type="checkbox"/>	<input type="checkbox"/>	12/23/08	6/06/09
08-9379-03A	MW20	Water	12/08/08 1150	12/09/08	8021_W *	8021: BTEX	<input type="checkbox"/>	<input type="checkbox"/>	12/12/08	12/15/08
08-9379-03B	MW20	Water	12/08/08 1150	12/09/08	COND_W	Specific Conductance @ 25°C	<input type="checkbox"/>	<input type="checkbox"/>	12/23/08	1/05/09
08-9379-03B	MW20	Water	12/08/08 1150	12/09/08	PH_DW	E150.1 pH	<input type="checkbox"/>	<input type="checkbox"/>	12/23/08	12/09/08
08-9379-03B	MW20	Water	12/08/08 1150	12/09/08	TDS_W	Total Dissolved Solids (TDS)	<input type="checkbox"/>	<input type="checkbox"/>	12/23/08	12/15/08
08-9379-03C	MW20	Water	12/08/08 1150	12/09/08	MEEP_W *	RSK175M: Methane	<input type="checkbox"/>	<input type="checkbox"/>	12/23/08	12/15/08
08-9379-03D	MW20	Water	12/08/08 1150	12/09/08	6010_D *	6010: Dissolved Metals	<input type="checkbox"/>	<input type="checkbox"/>	12/23/08	6/06/09
08-9379-04A	MW21	Water	12/08/08 1220	12/09/08	8021_W *	8021: BTEX	<input type="checkbox"/>	<input type="checkbox"/>	12/12/08	12/15/08
08-9379-04B	MW21	Water	12/08/08 1220	12/09/08	COND_W	Specific Conductance @ 25°C	<input type="checkbox"/>	<input type="checkbox"/>	12/23/08	1/05/09
08-9379-04B	MW21	Water	12/08/08 1220	12/09/08	PH_DW	E150.1 pH	<input type="checkbox"/>	<input type="checkbox"/>	12/23/08	12/09/08
08-9379-04B	MW21	Water	12/08/08 1220	12/09/08	TDS_W	Total Dissolved Solids (TDS)	<input type="checkbox"/>	<input type="checkbox"/>	12/23/08	12/15/08

Definitions: \* - Test Code has a Select List

## WORK ORDER Summary

Evergreen Analytical, Inc.

08-9379

Rpt To: Stuart Hall

12/9/2008 10:57:56 AM

Cordilleran Compliance

Client Project ID: 008-2067

826 21 1/2 Road

Grand Junction, CO 81505

QC Level: LEVEL I

(970) 263-7800

08-9379-04C	MW21	Water	12/08/08 1220	12/09/08	MEEP_W *	RSK175M: Methane	<input type="checkbox"/>	<input type="checkbox"/>	12/23/08	12/15/08
08-9379-04D	MW21	Water	12/08/08 1220	12/09/08	6010_D *	6010: Dissolved Metals	<input type="checkbox"/>	<input type="checkbox"/>	12/23/08	6/06/09
08-9379-05A	MW18	Water	12/08/08 1245	12/09/08	8021_W *	8021: BTEX	<input type="checkbox"/>	<input type="checkbox"/>	12/12/08	12/15/08
08-9379-05B	MW18	Water	12/08/08 1245	12/09/08	COND_W	Specific Conductance @ 25°C	<input type="checkbox"/>	<input type="checkbox"/>	12/23/08	1/05/09
08-9379-05B	MW18	Water	12/08/08 1245	12/09/08	PH_DW	E150.1 pH	<input type="checkbox"/>	<input type="checkbox"/>	12/23/08	12/09/08
08-9379-05B	MW18	Water	12/08/08 1245	12/09/08	TDS_W	Total Dissolved Solids (TDS)	<input type="checkbox"/>	<input type="checkbox"/>	12/23/08	12/15/08
08-9379-05C	MW18	Water	12/08/08 1245	12/09/08	MEEP_W *	RSK175M: Methane	<input type="checkbox"/>	<input type="checkbox"/>	12/23/08	12/15/08
08-9379-05D	MW18	Water	12/08/08 1245	12/09/08	6010_D *	6010: Dissolved Metals	<input type="checkbox"/>	<input type="checkbox"/>	12/23/08	6/06/09
08-9379-06A	MW22	Water	12/08/08 1315	12/09/08	8021_W *	8021: BTEX	<input type="checkbox"/>	<input type="checkbox"/>	12/12/08	12/15/08
08-9379-06B	MW22	Water	12/08/08 1315	12/09/08	COND_W	Specific Conductance @ 25°C	<input type="checkbox"/>	<input type="checkbox"/>	12/23/08	1/05/09
08-9379-06B	MW22	Water	12/08/08 1315	12/09/08	PH_DW	E150.1 pH	<input type="checkbox"/>	<input type="checkbox"/>	12/23/08	12/09/08
08-9379-06B	MW22	Water	12/08/08 1315	12/09/08	TDS_W	Total Dissolved Solids (TDS)	<input type="checkbox"/>	<input type="checkbox"/>	12/23/08	12/15/08
08-9379-06C	MW22	Water	12/08/08 1315	12/09/08	MEEP_W *	RSK175M: Methane	<input type="checkbox"/>	<input type="checkbox"/>	12/23/08	12/15/08
08-9379-06D	MW22	Water	12/08/08 1315	12/09/08	6010_D *	6010: Dissolved Metals	<input type="checkbox"/>	<input type="checkbox"/>	12/23/08	6/06/09

### 003. ENT INFORMATION

Page 1 of 1

CLIENT CORDILLERAN Compliance, Inc.

ADDRESS 826 21 $\frac{1}{2}$  Rd

CITY GRAND JCT STATE CO ZIP 81505

PHONE 970 263-7800 FAX 970 263-7456 E-mail shall@oa

REPORT BY ☐ MAIL ☐ FAX ☐ PDF ☐ EDD

REPORT CHROMATOGRAMS ☐ YES ☐ NO

REPORT TO (M/Ms) STUART HALL

INVOICE TO SAME

PROJECT I.D. 008-2067

P.O. #                      EAL. QUOTE #                     

Sampler: Yes Van (sign)

**NOTE:** Identify Known Hazards Below

## SAMPLE

DATE \_\_\_\_\_

## IDENTIFICATION

SAMPLED TIME

MW	Date	Time	T	F	C	S	B	A	P	H	L	G	O	A	T	E	N	By
MW 27	12-8-08	1100	X													X	X	c1
MW 23	12-8-08	1120	X													X	X	c2
MW 20	12-8-08	1150	X													X	X	o3
MW 21	12-8-08	1220	X													X	X	o4
MW 18	12-8-08	1245	X													X	X	e5
MW 22	12-8-08	1315	X													X	X	o6
																		p42

Does this analysis involve property transfer? ☐ Yes or ☒ No

Instructions: DISSOLVED METALS SAMPLE FIELD FILTERED

\*\* Important Note: See reverse side of form for details.

Sample Fraction

**\*\* Important Note:** See reverse side hereof for terms and conditions.

Relinquished by: (Signature)

Date/Time

Received by: (Signature)



Date/Time	Location	Activity	Remarks
10/10/2023	...	...	...

Relinquished by: (Signature)

Date/Time

Received by: (Signature)

Date/Time

Relinquished by: (Signature) 	Date/Time 12-8-08 1700	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Date/Time	Received by: (Signature) 	Date/Time 12/9/08 1015
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**Evergreen Analytical, Inc.**

**Date:** 22-Dec-08

**Lab Order:** 08-9379

**Client Project ID** 008-2067

## **CASE NARRATIVE**

### **SAMPLE RECEIVING**

Custody seals were present and intact.

The temperature of the sample(s) upon arrival was 1.2°C.

Sample(s) were received in good condition, in the proper container, and within holding times.

Metals samples were preserved properly. VOC samples were not preserved.

VOC sample(s) were received with no headspace present. JD

### **QUALITY ASSURANCE (QA)**

Analyses performed on samples in this work order by EAL meet the requirements of the EAL Quality Assurance Program unless otherwise explained. Analyses of RCRA samples meet the requirements of NELAC and Utah Rule R444-14 unless otherwise explained. TP

### **CLIENT SERVICES**

There are no anomalies to report. EKH

### **GENERAL CHEMISTRY**

There are no anomalies to report. MM

### **METALS ANALYSIS**

There are no anomalies to report. WKH

### **GAS CHROMATOGRAPHY**

Method 8021\_W: There are no anomalies to report. VM

Method RSK175: There are no anomalies to report. VM

## SUMMARY OF SAMPLE RESULTS

## Evergreen Analytical, Inc.

4036 Youngfield Street, Wheat Ridge, Colorado 80033-3862  
(303) 425-6021

Client Sample ID: MW27  
Client Project ID: 008-2067  
Date Collected: 12/8/08 1100  
Date Received: 12/9/08

Lab Work Order 08-9379  
Lab Sample ID: 08-9379-01  
Sample Matrix: Water

<b>Dissolved Metals</b>	<b>Method:</b> SW6010B			<b>Analyst:</b> MAB
	<b>Result</b>	<b>LQL</b>	<b>DF</b>	<b>Units</b>
Sodium	260	0.40	1	mg/L
<b>Aromatic Volatile Organics</b>	<b>Method:</b> SW8021B			<b>Analyst:</b> VM
	<b>Result</b>	<b>LQL</b>	<b>DF</b>	<b>Units</b>
Benzene	U	1.0	1	µg/L
Ethylbenzene	U	2.0	1	µg/L
m,p-Xylene	U	2.0	1	µg/L
o-Xylene	U	2.0	1	µg/L
Toluene	U	2.0	1	µg/L
<b>Specific Conductance @ 25°C</b>	<b>Method:</b> SM2510 B			<b>Analyst:</b> CJ
	<b>Result</b>	<b>LQL</b>	<b>DF</b>	<b>Units</b>
Specific Conductance	1240	1.00	1	µmhos/cm
<b>RSKSOP-175M Headspace</b>	<b>Method:</b> RSKSOP175M			<b>Analyst:</b> VM
	<b>Result</b>	<b>LQL</b>	<b>DF</b>	<b>Units</b>
Methane	U	0.00080	1	mg/L
<b>E150.1 pH</b>	<b>Method:</b> E150.1			<b>Analyst:</b> CJ
	<b>Result</b>	<b>LQL</b>	<b>DF</b>	<b>Units</b>
pH	7.73	1.00	1	pH Units
<b>Total Dissolved Solids (TDS)</b>	<b>Method:</b> SM 2540C			<b>Analyst:</b> JD
	<b>Result</b>	<b>LQL</b>	<b>DF</b>	<b>Units</b>
Total Dissolved Solids	980	10.0	1	mg/L

**Qualifiers:** B - Analyte detected in the associated Method Blank, value not subtracted from result  
E - Extrapolated value. Value exceeds calibration range  
H - Sample analysis exceeded analytical holding time  
J - Indicates an estimated value when the compound is detected, but is below the LQL  
U - Compound analyzed for but not detected  
X - See case narrative  
\* - Value exceeded the Maximum Contamination Level (MCL), TCLP limit, or if compound is undetected, LQL exceeds MCL.

**Definitions:** NA - Not Applicable

Print Date: 12/22/2008

## SUMMARY OF SAMPLE RESULTS

## Evergreen Analytical, Inc.

4036 Youngfield Street, Wheat Ridge, Colorado 80033-3862  
(303) 425-6021

Client Sample ID: MW23  
Client Project ID: 008-2067  
Date Collected: 12/8/08 1120  
Date Received: 12/9/08

Lab Work Order: 08-9379  
Lab Sample ID: 08-9379-02  
Sample Matrix: Water

## Dissolved Metals

Method: SW6010B

Analyst: MAB

Result	LQL	DF	Units
430	0.40	1	mg/L

Sodium

## Aromatic Volatile Organics

Method: SW8021B

Analyst: VM

Result	LQL	DF	Units
U	1.0	1	µg/L
U	2.0	1	µg/L
U	2.0	1	µg/L
U	2.0	1	µg/L
U	2.0	1	µg/L

Benzene

Ethylbenzene

m,p-Xylene

o-Xylene

Toluene

## Specific Conductance @ 25°C

Method: SM2510 B

Analyst: CJ

Result	LQL	DF	Units
1590	1.00	1	µmhos/cm

Specific Conductance

## RSKSOP-175M Headspace

Method: RSKSOP175M

Analyst: VM

Result	LQL	DF	Units
0.45	0.016	20	mg/L

Methane

## E150.1 pH

Method: E150.1

Analyst: CJ

Result	LQL	DF	Units
7.51	1.00	1	pH Units

pH

## Total Dissolved Solids (TDS)

Method: SM 2540C

Analyst: JD

Result	LQL	DF	Units
1230	10.0	1	mg/L

Total Dissolved Solids

**Qualifiers:** B - Analyte detected in the associated Method Blank, value not subtracted from result  
E - Extrapolated value. Value exceeds calibration range  
H - Sample analysis exceeded analytical holding time  
J - Indicates an estimated value when the compound is detected, but is below the LQL  
U - Compound analyzed for but not detected  
X - See case narrative  
\* - Value exceeded the Maximum Contamination Level (MCL), TCLP limit, or if compound is undetected, LQL exceeds MCL.

**Definitions:** NA - Not Applicable

Print Date: 12/22/2008

## SUMMARY OF SAMPLE RESULTS

## Evergreen Analytical, Inc.

4036 Youngfield Street, Wheat Ridge, Colorado 80033-3862  
(303) 425-6021

Client Sample ID: MW20  
Client Project ID: 008-2067  
Date Collected: 12/8/08 1150  
Date Received: 12/9/08

Lab Work Order: 08-9379  
Lab Sample ID: 08-9379-03  
Sample Matrix: Water

<b>Dissolved Metals</b>	<b>Method: SW6010B</b>			<b>Analyst: MAB</b>
	<b>Result</b>	<b>LQL</b>	<b>DF</b>	<b>Units</b>
Sodium	110	0.40	1	mg/L
<b>Aromatic Volatile Organics</b>	<b>Method: SW8021B</b>			<b>Analyst: VM</b>
	<b>Result</b>	<b>LQL</b>	<b>DF</b>	<b>Units</b>
Benzene	U	1.0	1	µg/L
Ethylbenzene	U	2.0	1	µg/L
m,p-Xylene	U	2.0	1	µg/L
o-Xylene	U	2.0	1	µg/L
Toluene	U	2.0	1	µg/L
<b>Specific Conductance @ 25°C</b>	<b>Method: SM2510 B</b>			<b>Analyst: CJ</b>
	<b>Result</b>	<b>LQL</b>	<b>DF</b>	<b>Units</b>
Specific Conductance	864	1.00	1	µmhos/cm
<b>RSKSOP-175M Headspace</b>	<b>Method: RSKSOP175M</b>			<b>Analyst: VM</b>
	<b>Result</b>	<b>LQL</b>	<b>DF</b>	<b>Units</b>
Methane	0.0011	0.00080	1	mg/L
<b>E150.1 pH</b>	<b>Method: E150.1</b>			<b>Analyst: CJ</b>
	<b>Result</b>	<b>LQL</b>	<b>DF</b>	<b>Units</b>
pH	7.31	1.00	1	pH Units
<b>Total Dissolved Solids (TDS)</b>	<b>Method: SM 2540C</b>			<b>Analyst: JD</b>
	<b>Result</b>	<b>LQL</b>	<b>DF</b>	<b>Units</b>
Total Dissolved Solids	644	10.0	1	mg/L

**Qualifiers:** B - Analyte detected in the associated Method Blank, value not subtracted from result  
E - Extrapolated value. Value exceeds calibration range  
H - Sample analysis exceeded analytical holding time  
J - Indicates an estimated value when the compound is detected, but is below the LQL  
U - Compound analyzed for but not detected  
X - See case narrative  
\* - Value exceeded the Maximum Contamination Level (MCL), TCLP limit, or if compound is undetected, LQL exceeds MCL.

**Definitions:** NA - Not Applicable

Print Date: 12/22/2008

## SUMMARY OF SAMPLE RESULTS

## Evergreen Analytical, Inc.

4036 Youngfield Street, Wheat Ridge, Colorado 80033-3862  
(303) 425-6021

Client Sample ID: MW21  
Client Project ID: 008-2067  
Date Collected: 12/8/08 1220  
Date Received: 12/9/08

Lab Work Order: 08-9379  
Lab Sample ID: 08-9379-04  
Sample Matrix: Water

<b>Dissolved Metals</b>	<b>Method: SW6010B</b>			<b>Analyst: MAB</b>
	<b>Result</b>	<b>LQL</b>	<b>DF</b>	<b>Units</b>
Sodium	230	0.40	1	mg/L
<b>Aromatic Volatile Organics</b>	<b>Method: SW8021B</b>			<b>Analyst: VM</b>
	<b>Result</b>	<b>LQL</b>	<b>DF</b>	<b>Units</b>
Benzene	U	1.0	1	µg/L
Ethylbenzene	U	2.0	1	µg/L
m,p-Xylene	U	2.0	1	µg/L
o-Xylene	U	2.0	1	µg/L
Toluene	U	2.0	1	µg/L
<b>Specific Conductance @ 25°C</b>	<b>Method: SM2510 B</b>			<b>Analyst: CJ</b>
	<b>Result</b>	<b>LQL</b>	<b>DF</b>	<b>Units</b>
Specific Conductance	1010	1.00	1	µmhos/cm
<b>RSKSOP-175M Headspace</b>	<b>Method: RSKSOP175M</b>			<b>Analyst: VM</b>
	<b>Result</b>	<b>LQL</b>	<b>DF</b>	<b>Units</b>
Methane	U	0.00080	1	mg/L
<b>E150.1 pH</b>	<b>Method: E150.1</b>			<b>Analyst: CJ</b>
	<b>Result</b>	<b>LQL</b>	<b>DF</b>	<b>Units</b>
pH	7.47	1.00	1	pH Units
<b>Total Dissolved Solids (TDS)</b>	<b>Method: SM 2540C</b>			<b>Analyst: JD</b>
	<b>Result</b>	<b>LQL</b>	<b>DF</b>	<b>Units</b>
Total Dissolved Solids	718	10.0	1	mg/L

**Qualifiers:** B - Analyte detected in the associated Method Blank, value not subtracted from result  
E - Extrapolated value. Value exceeds calibration range  
H - Sample analysis exceeded analytical holding time  
J - Indicates an estimated value when the compound is detected, but is below the LQL  
U - Compound analyzed for but not detected  
X - See case narrative  
\* - Value exceeded the Maximum Contamination Level (MCL), TCLP limit, or if compound is undetected, LQL exceeds MCL.

**Definitions:** NA - Not Applicable

Print Date: 12/22/2008

## SUMMARY OF SAMPLE RESULTS

## Evergreen Analytical, Inc.

4036 Youngfield Street, Wheat Ridge, Colorado 80033-3862  
(303) 425-6021

Client Sample ID: MW18  
Client Project ID: 008-2067  
Date Collected: 12/8/08 1245  
Date Received: 12/9/08

Lab Work Order: 08-9379  
Lab Sample ID: 08-9379-05  
Sample Matrix: Water

## Dissolved Metals

Method: SW6010B

Analyst: MAB

Result	LQL	DF	Units
64	0.40	1	mg/L

Sodium

## Aromatic Volatile Organics

Method: SW8021B

Analyst: VM

Result	LQL	DF	Units
U	1.0	1	µg/L
U	2.0	1	µg/L
U	2.0	1	µg/L
U	2.0	1	µg/L
U	2.0	1	µg/L

Benzene

Ethylbenzene

m,p-Xylene

o-Xylene

Toluene

## Specific Conductance @ 25°C

Method: SM2510 B

Analyst: CJ

Result	LQL	DF	Units
680	1.00	1	µmhos/cm

Specific Conductance

## RSKSOP-175M Headspace

Method: RSKSOP175M

Analyst: VM

Result	LQL	DF	Units
0.034	0.00080	1	mg/L

Methane

## E150.1 pH

Method: E150.1

Analyst: CJ

Result	LQL	DF	Units
7.42	1.00	1	pH Units

pH

## Total Dissolved Solids (TDS)

Method: SM 2540C

Analyst: JD

Result	LQL	DF	Units
478	10.0	1	mg/L

Total Dissolved Solids

**Qualifiers:** B - Analyte detected in the associated Method Blank, value not subtracted from result  
E - Extrapolated value. Value exceeds calibration range  
H - Sample analysis exceeded analytical holding time  
J - Indicates an estimated value when the compound is detected, but is below the LQL  
U - Compound analyzed for but not detected  
X - See case narrative  
\* - Value exceeded the Maximum Contamination Level (MCL), TCLP limit, or if compound is undetected, LQL exceeds MCL.

**Definitions:** NA - Not Applicable

Print Date: 12/22/2008

## SUMMARY OF SAMPLE RESULTS

## Evergreen Analytical, Inc.

4036 Youngfield Street, Wheat Ridge, Colorado 80033-3862  
(303) 425-6021

Client Sample ID: MW22  
Client Project ID: 008-2067  
Date Collected: 12/8/08 1315  
Date Received: 12/9/08

Lab Work Order: 08-9379  
Lab Sample ID: 08-9379-06  
Sample Matrix: Water

## Dissolved Metals

Method: SW6010B

Analyst: MAB

Result	LQL	DF	Units	
Sodium	140	0.40	1	mg/L

## Aromatic Volatile Organics

Method: SW8021B

Analyst: VM

Result	LQL	DF	Units	
Benzene	U	1.0	1	µg/L
Ethylbenzene	U	2.0	1	µg/L
m,p-Xylene	U	2.0	1	µg/L
o-Xylene	U	2.0	1	µg/L
Toluene	U	2.0	1	µg/L

## Specific Conductance @ 25°C

Method: SM2510 B

Analyst: CJ

Result	LQL	DF	Units	
Specific Conductance	884	1.00	1	µmhos/cm

## RSKSOP-175M Headspace

Method: RSKSOP175M

Analyst: VM

Result	LQL	DF	Units	
Methane	U	0.00080	1	mg/L

## E150.1 pH

Method: E150.1

Analyst: CJ

Result	LQL	DF	Units	
pH	7.38	1.00	1	pH Units

## Total Dissolved Solids (TDS)

Method: SM 2540C

Analyst: JD

Result	LQL	DF	Units	
Total Dissolved Solids	612	10.0	1	mg/L

**Qualifiers:** B - Analyte detected in the associated Method Blank, value not subtracted from result  
E - Extrapolated value. Value exceeds calibration range  
H - Sample analysis exceeded analytical holding time  
J - Indicates an estimated value when the compound is detected, but is below the LQL  
U - Compound analyzed for but not detected  
X - See case narrative  
\* - Value exceeded the Maximum Contamination Level (MCL), TCLP limit, or if compound is undetected, LQL exceeds MCL.

Definitions: NA - Not Applicable

Print Date: 12/22/2008

# Evergreen Analytical, Inc.

4036 Youngfield Street, Wheat Ridge, Colorado 80033-3862  
(303) 425-6021

Client Sample ID: MW27  
Client Project ID: 008-2067  
Date Collected: 12/8/08  
Date Received: 12/9/08

Lab Work Order 08-9379  
Lab Sample ID: 08-9379-01A  
Sample Matrix: Water

## AROMATIC VOLATILE ORGANICS

Method: SW8021B

Prep Method: SW5030B

Date Prepared: 12/9/08

Lab File ID: TVB41209\023R

Dilution Factor: 1

Date Analyzed: 12/9/08

Method Blank: MB4120908

Analytes	CAS Number	Result	LQL	Units
Benzene	71-43-2	U	1.0	µg/L
Toluene	108-88-3	U	2.0	µg/L
Ethylbenzene	100-41-4	U	2.0	µg/L
m,p-Xylene	1330-20-7	U	2.0	µg/L
o-Xylene	95-47-6	U	2.0	µg/L
Surr: 1,2,4-Trichlorobenzene (S)	120-82-1	80	QC Limits: 60-140	%REC

  
\_\_\_\_\_  
Analyst

  
\_\_\_\_\_  
Approved

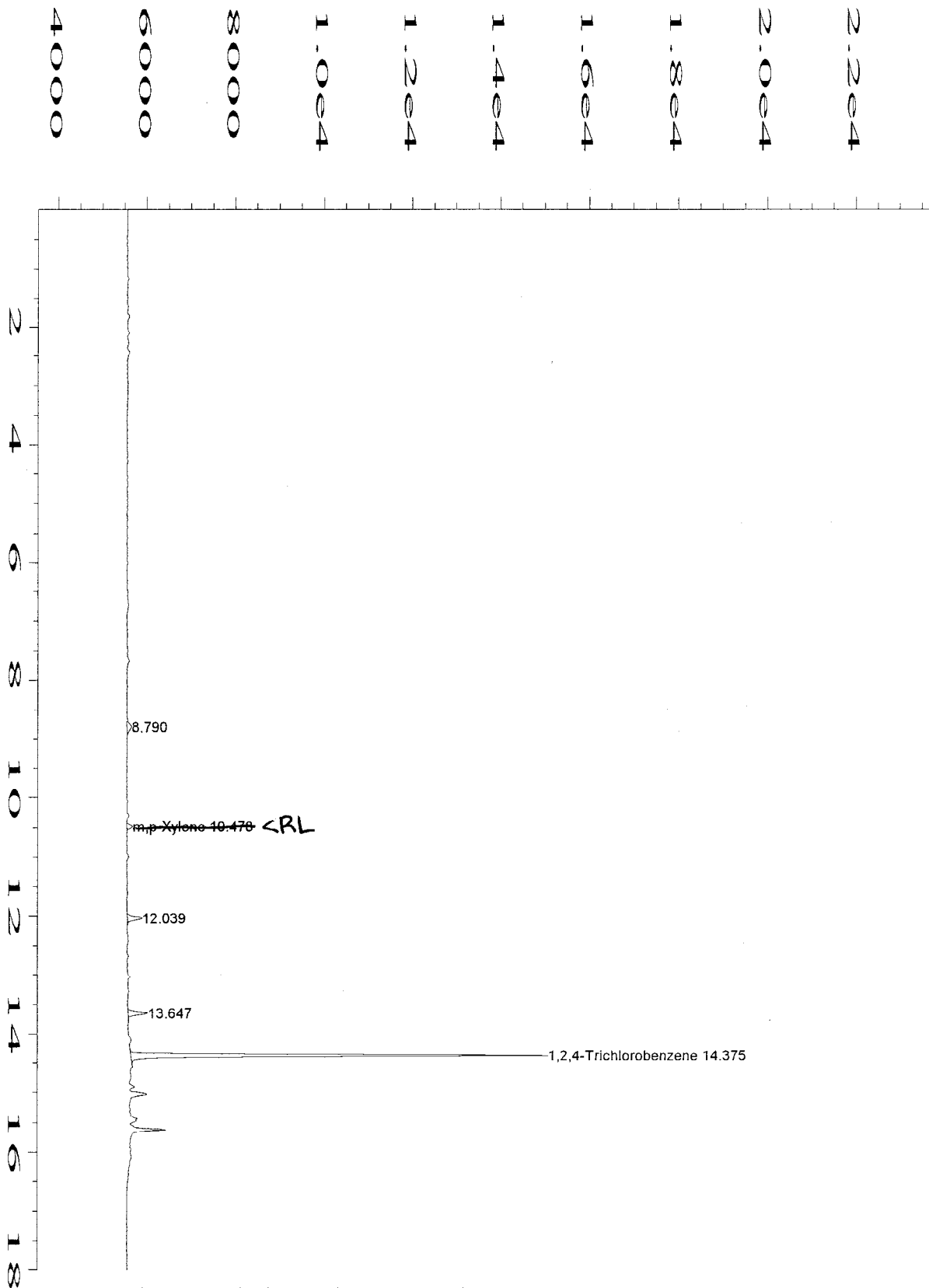
Notes: Total Xylenes consist of three isomers, two of which co-elute. The Xylene RL is for a single peak. Confirmation analysis was not performed.

**Qualifiers:** B - Analyte detected in the associated Method Blank, value not subtracted from result  
E - Extrapolated value. Value exceeds calibration range  
H - Sample analysis exceeded analytical holding time  
J - Indicates an estimated value when the compound is detected, but is below the LQL  
S - Spike Recovery outside accepted limits  
U - Compound analyzed for but not detected  
X - See case narrative  
\* - Value exceeded the Maximum Contamination Level (MCL), TCLP limit, or if compound is undetected, LQL exceeds MCL.

**Definitions:** LQL - Lower Quantitation Limit  
Surr - Surrogate

Print Date: 12/10/08





Data File Name	: C:\HPCHEM\1\DATA\TVB41209\023R0101.D	Page Number	: 1
Operator	: Virginia Meyer	Vial Number	: 23
Instrument	: TVHBTEX4	Injection Number	: 1
Sample Name	: 08-9379-01A	Sequence Line	: 1
Run Time Bar Code:		Instrument Method:	TS40717M.MTH
Acquired on	: 09 Dec 08 11:24 PM	Analysis Method	: BS41205.MTH
Report Created on:	09 Dec 08 11:42 PM	Sample Amount	: 0
Last Recalib on	: 08 DEC 08 07:34 AM	ISTD Amount	:
Multiplier	: 1		
Sample Info	: SAMP		
	DF=1		

VM 12-10-08

# Evergreen Analytical, Inc.

4036 Youngfield Street, Wheat Ridge, Colorado 80033-3862  
(303) 425-6021

Client Sample ID: MW23  
Client Project ID: 008-2067  
Date Collected: 12/8/08  
Date Received: 12/9/08

Lab Work Order 08-9379  
Lab Sample ID: 08-9379-02A  
Sample Matrix: Water

## AROMATIC VOLATILE ORGANICS

Method: SW8021B

Prep Method: SW5030B

Date Prepared: 12/9/08

Lab File ID: TVB41209\024R

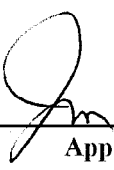
Dilution Factor: 1

Date Analyzed: 12/9/08

Method Blank: MB4120908

Analytes	CAS Number	Result	LQL	Units
Benzene	71-43-2	U	1.0	µg/L
Toluene	108-88-3	U	2.0	µg/L
Ethylbenzene	100-41-4	U	2.0	µg/L
m,p-Xylene	1330-20-7	U	2.0	µg/L
o-Xylene	95-47-6	U	2.0	µg/L
Surr: 1,2,4-Trichlorobenzene (S)	120-82-1	82	QC Limits: 60-140	%REC

VM  
Analyst

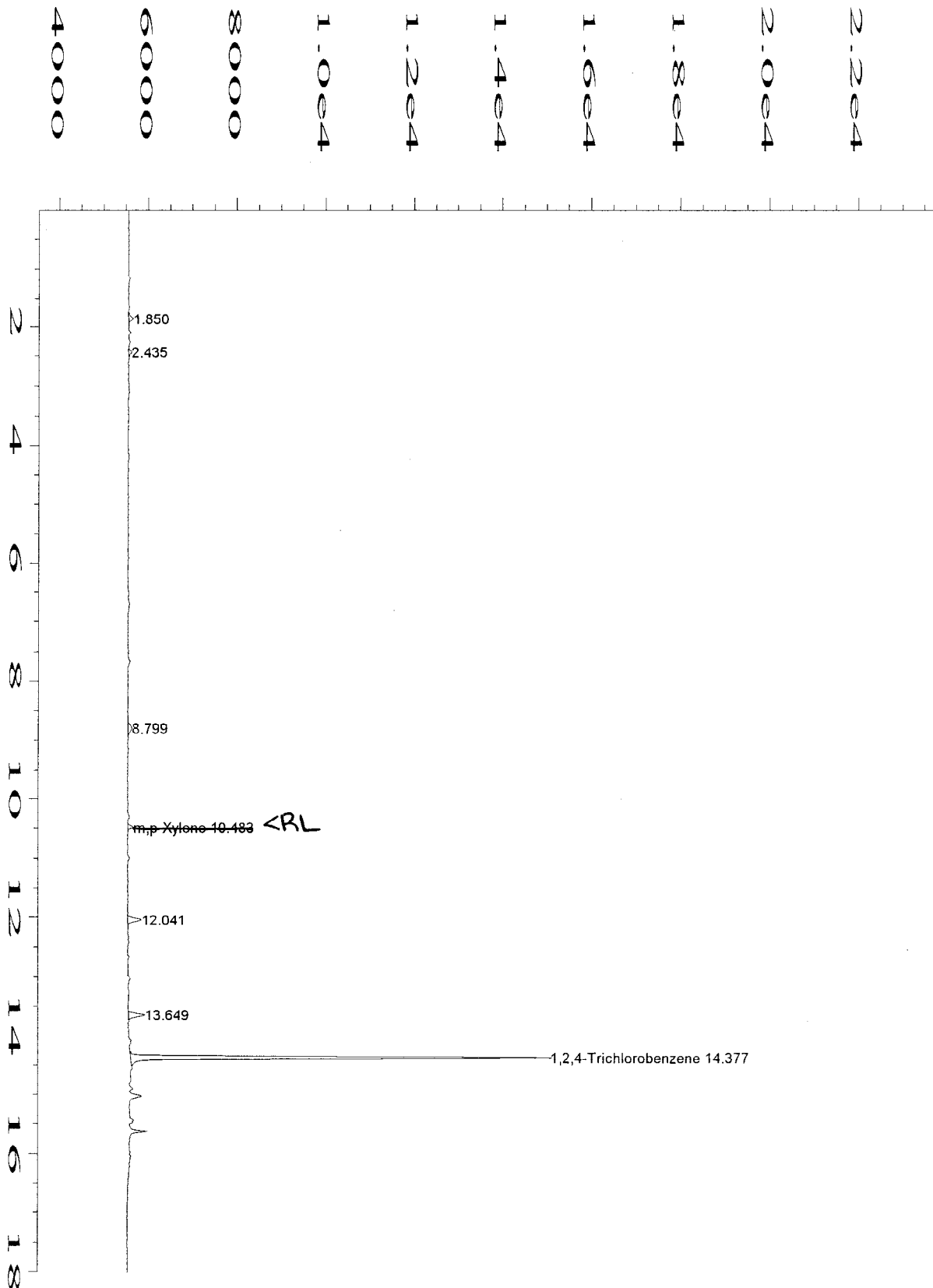
  
Approved

Notes: Total Xylenes consist of three isomers, two of which co-elute. The Xylene RL is for a single peak. Confirmation analysis was not performed.

**Qualifiers:** B - Analyte detected in the associated Method Blank, value not subtracted from result  
E - Extrapolated value. Value exceeds calibration range  
H - Sample analysis exceeded analytical holding time  
J - Indicates an estimated value when the compound is detected, but is below the LQL  
S - Spike Recovery outside accepted limits  
U - Compound analyzed for but not detected  
X - See case narrative  
\* - Value exceeded the Maximum Contamination Level (MCL), TCLP limit, or if compound is undetected, LQL exceeds MCL.

**Definitions:** LQL - Lower Quantitation Limit  
Surr - Surrogate

Print Date: 12/10/08



Data File Name	: C:\HPCHEM\1\DATA\TVB41209\024R0101.D	Page Number	: 1
Operator	: Virginia Meyer	Vial Number	: 24
Instrument	: TVHBTEX4	Injection Number	: 1
Sample Name	: 08-9379-02A	Sequence Line	: 1
Run Time Bar Code:		Instrument Method:	TS40717M.MTH
Acquired on	: 09 Dec 08 11:59 PM	Analysis Method	: BS41205.MTH
Report Created on:	10 Dec 08 00:17 AM	Sample Amount	: 0
Last Recalib on	: 08 DEC 08 07:34 AM	ISTD Amount	:
Multiplier	: 1		
Sample Info	: SAMP		
DF=1			

VM 12-10-08

# Evergreen Analytical, Inc.

4036 Youngfield Street, Wheat Ridge, Colorado 80033-3862  
(303) 425-6021

Client Sample ID: MW20  
Client Project ID: 008-2067  
Date Collected: 12/8/08  
Date Received: 12/9/08

Lab Work Order 08-9379  
Lab Sample ID: 08-9379-03A  
Sample Matrix: Water

## AROMATIC VOLATILE ORGANICS

Method: SW8021B

Prep Method: SW5030B

Date Prepared: 12/9/08

Lab File ID: TVB41209\025R

Dilution Factor: 1

Date Analyzed: 12/10/08

Method Blank: MB4120908

Analytes	CAS Number	Result	LQL	Units
Benzene	71-43-2	U	1.0	µg/L
Toluene	108-88-3	U	2.0	µg/L
Ethylbenzene	100-41-4	U	2.0	µg/L
m,p-Xylene	1330-20-7	U	2.0	µg/L
o-Xylene	95-47-6	U	2.0	µg/L
Surr: 1,2,4-Trichlorobenzene (S)	120-82-1	89	QC Limits: 60-140	%REC

VM

Analyst

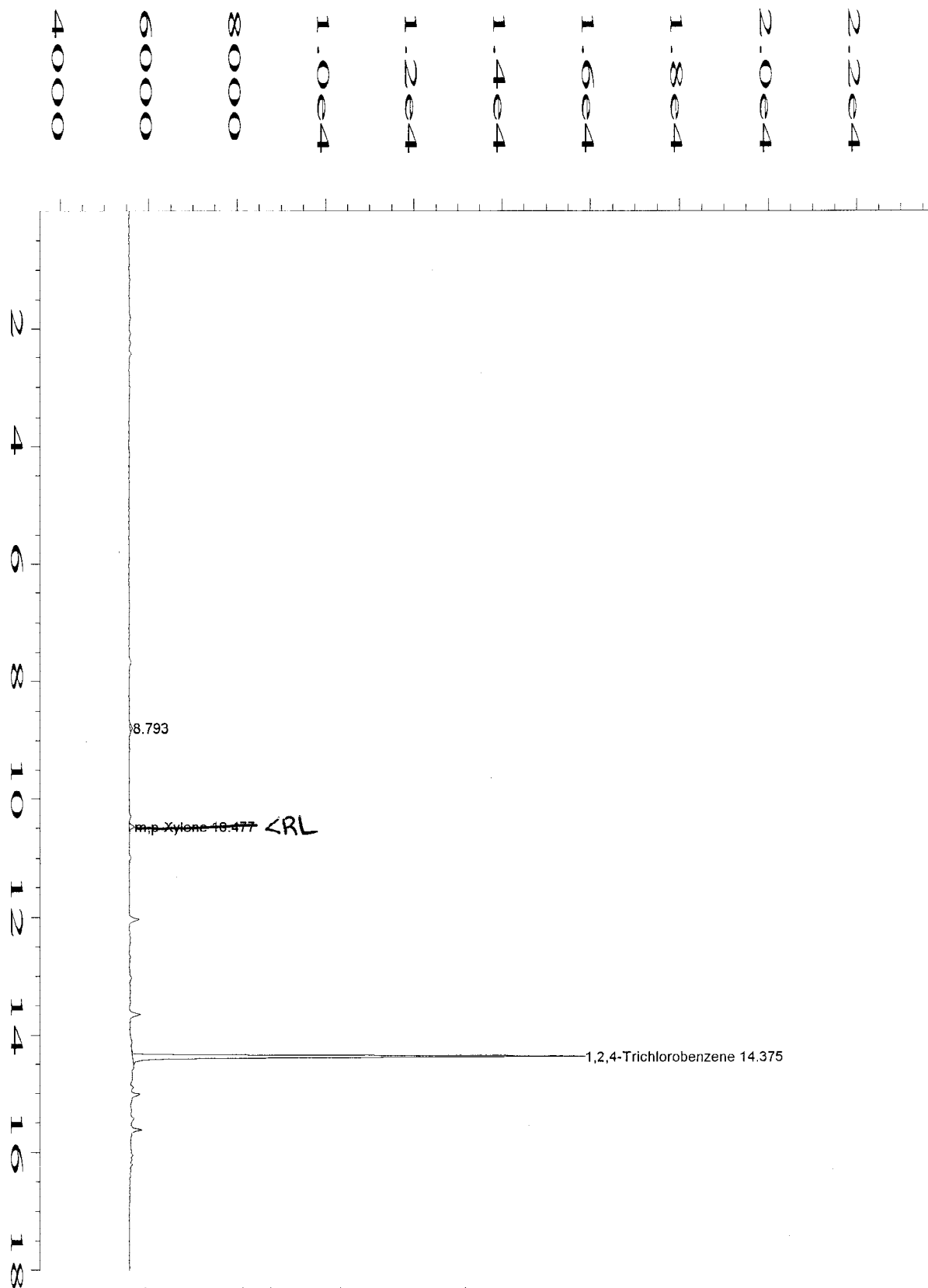
Approved

Notes: Total Xylenes consist of three isomers, two of which co-elute. The Xylene RL is for a single peak. Confirmation analysis was not performed.

**Qualifiers:** B - Analyte detected in the associated Method Blank, value not subtracted from result  
E - Extrapolated value. Value exceeds calibration range  
H - Sample analysis exceeded analytical holding time  
J - Indicates an estimated value when the compound is detected, but is below the LQL  
S - Spike Recovery outside accepted limits  
U - Compound analyzed for but not detected  
X - See case narrative  
\* - Value exceeded the Maximum Contamination Level (MCL), TCLP limit, or if compound is undetected, LQL exceeds MCL.

**Definitions:** LQL - Lower Quantitation Limit  
Surr - Surrogate

Print Date: 12/10/08



Data File Name	: C:\HPCHEM\1\DATA\TVB41209\025R0101.D	Page Number	: 1
Operator	: Virginia Meyer	Vial Number	: 25
Instrument	: TVHBTEX4	Injection Number	: 1
Sample Name	: 08-9379-03A	Sequence Line	: 1
Run Time Bar Code:		Instrument Method:	TS40717M.MTH
Acquired on	: 10 Dec 08 00:33 AM	Analysis Method	: BS41205.MTH
Report Created on:	10 Dec 08 00:52 AM	Sample Amount	: 0
Last Recalib on	: 08 DEC 08 07:34 AM	ISTD Amount	:
Multiplier	: 1		
Sample Info	: SAMP		
	DF=1		

VM 12-10-08

# Evergreen Analytical, Inc.

4036 Youngfield Street, Wheat Ridge, Colorado 80033-3862  
(303) 425-6021

Client Sample ID: MW21  
Client Project ID: 008-2067  
Date Collected: 12/8/08  
Date Received: 12/9/08

Lab Work Order 08-9379  
Lab Sample ID: 08-9379-04A  
Sample Matrix: Water

## AROMATIC VOLATILE ORGANICS

Method: SW8021B

Prep Method: SW5030B

Date Prepared: 12/9/08

Lab File ID: TVB41209\026R

Dilution Factor: 1

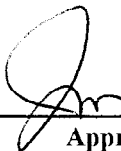
Date Analyzed: 12/10/08

Method Blank: MB4120908

Analytes	CAS Number	Result	LQL	Units
Benzene	71-43-2	U	1.0	µg/L
Toluene	108-88-3	U	2.0	µg/L
Ethylbenzene	100-41-4	U	2.0	µg/L
m,p-Xylene	1330-20-7	U	2.0	µg/L
o-Xylene	95-47-6	U	2.0	µg/L
Surr: 1,2,4-Trichlorobenzene (S)	120-82-1	81	QC Limits: 60-140	%REC

VM

Analyst



Approved

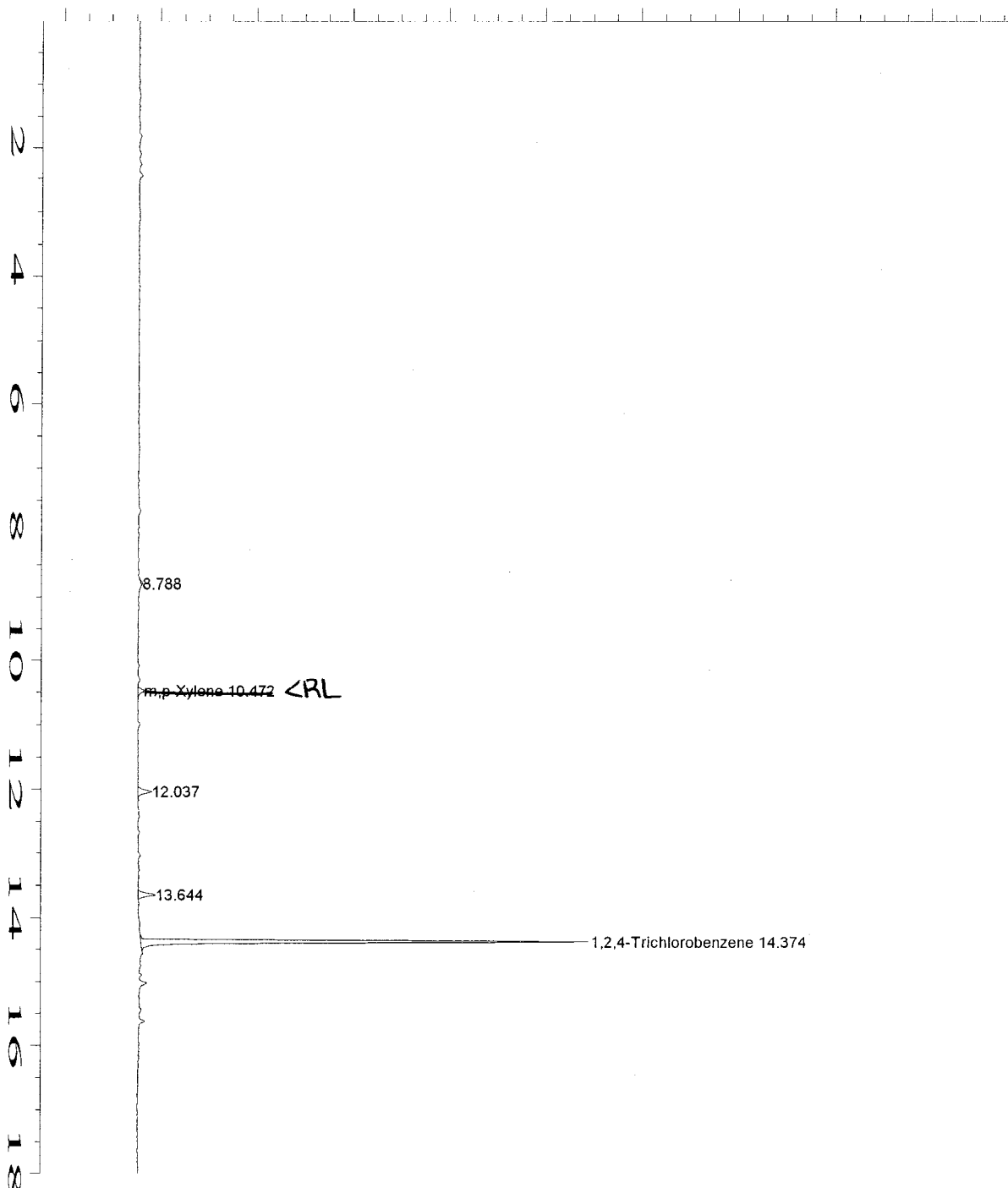
Notes: Total Xylenes consist of three isomers, two of which co-elute. The Xylene RL is for a single peak. Confirmation analysis was not performed.

**Qualifiers:** B - Analyte detected in the associated Method Blank, value not subtracted from result  
E - Extrapolated value. Value exceeds calibration range  
H - Sample analysis exceeded analytical holding time  
J - Indicates an estimated value when the compound is detected, but is below the LQL  
S - Spike Recovery outside accepted limits  
U - Compound analyzed for but not detected  
X - See case narrative  
\* - Value exceeded the Maximum Contamination Level (MCL), TCLP limit, or if compound is undetected, LQL exceeds MCL.

**Definitions:** LQL - Lower Quantitation Limit  
Surr - Surrogate

Print Date: 12/10/08

2.2e4  
2.0e4  
1.8e4  
1.6e4  
1.4e4  
1.2e4  
1.0e4  
8000  
6000  
4000



Data File Name	: C:\HPCHEM\1\DATA\TVB41209\026R0101.D	Page Number	: 1
Operator	: Virginia Meyer	Vial Number	: 26
Instrument	: TVHBTEX4	Injection Number	: 1
Sample Name	: 08-9379-04A	Sequence Line	: 1
Run Time Bar Code:		Instrument Method:	TS40717M.MTH
Acquired on	: 10 Dec 08 01:08 AM	Analysis Method	: BS41205.MTH
Report Created on:	10 Dec 08 01:27 AM	Sample Amount	: 0
Last Recalib on	: 08 DEC 08 07:34 AM	ISTD Amount	:
Multiplier	: 1		
Sample Info	: SAMP		
	DF=1		

VM 12 10 08

# Evergreen Analytical, Inc.

4036 Youngfield Street, Wheat Ridge, Colorado 80033-3862  
(303) 425-6021

Client Sample ID: MW18  
Client Project ID: 008-2067  
Date Collected: 12/8/08  
Date Received: 12/9/08

Lab Work Order 08-9379  
Lab Sample ID: 08-9379-05A  
Sample Matrix: Water

## AROMATIC VOLATILE ORGANICS

Method: SW8021B

Prep Method: SW5030B

Date Prepared: 12/9/08

Lab File ID: TVB41209\027R

Dilution Factor: 1

Date Analyzed: 12/10/08

Method Blank: MB4120908

Analytes	CAS Number	Result	LQL	Units
Benzene	71-43-2	U	1.0	µg/L
Toluene	108-88-3	U	2.0	µg/L
Ethylbenzene	100-41-4	U	2.0	µg/L
m,p-Xylene	1330-20-7	U	2.0	µg/L
o-Xylene	95-47-6	U	2.0	µg/L
Surr: 1,2,4-Trichlorobenzene (S)	120-82-1	81	QC Limits: 60-140	%REC

VM

Analyst



Approved

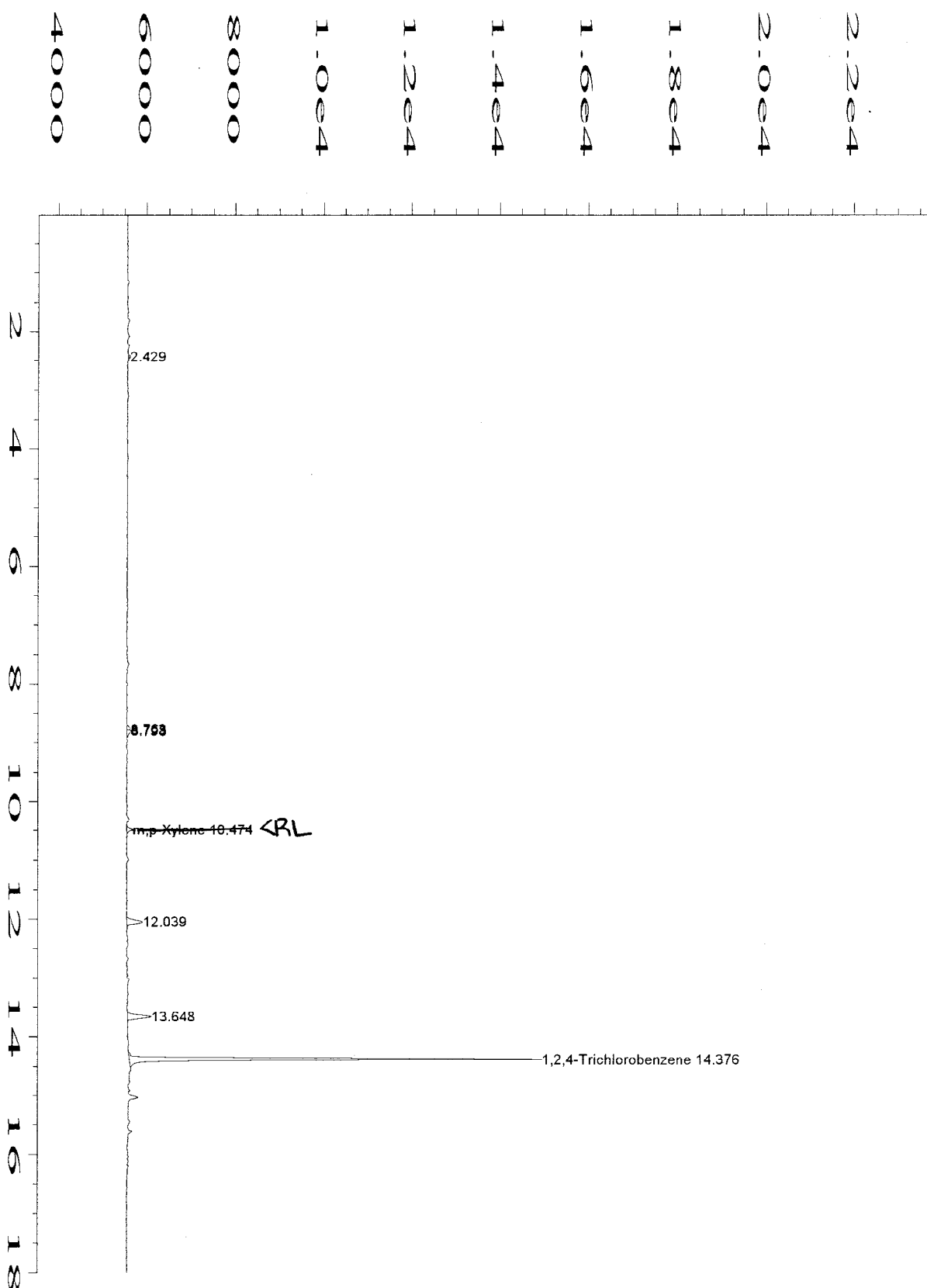
Notes: Total Xylenes consist of three isomers, two of which co-elute. The Xylene RL is for a single peak. Confirmation analysis was not performed.

**Qualifiers:** B - Analyte detected in the associated Method Blank, value not subtracted from result  
E - Extrapolated value, Value exceeds calibration range  
H - Sample analysis exceeded analytical holding time  
J - Indicates an estimated value when the compound is detected, but is below the LQL  
S - Spike Recovery outside accepted limits  
U - Compound analyzed for but not detected  
X - See case narrative  
\* - Value exceeded the Maximum Contamination Level (MCL), TCLP limit, or if compound is undetected, LQL exceeds MCL.

**Definitions:** LQL - Lower Quantitation Limit  
Surr - Surrogate

Print Date: 12/10/08





Data File Name	: C:\HPCHEM\1\DATA\TVB41209\027R0101.D	Page Number	: 1
Operator	: Virginia Meyer	Vial Number	: 27
Instrument	: TVHBTEX4	Injection Number	: 1
Sample Name	: 08-9379-05A	Sequence Line	: 1
Run Time Bar Code:		Instrument Method:	TS40717M.MTH
Acquired on	: 10 Dec 08 01:43 AM	Analysis Method	: BS41205.MTH
Report Created on:	10 Dec 08 02:01 AM	Sample Amount	: 0
Last Recalib on	: 08 DEC 08 07:34 AM	ISTD Amount	:
Multiplier	: 1		
Sample Info	: SAMP		
DF=1			

VM 12.10.08

# Evergreen Analytical, Inc.

4036 Youngfield Street, Wheat Ridge, Colorado 80033-3862  
(303) 425-6021

Client Sample ID: MW22  
Client Project ID: 008-2067  
Date Collected: 12/8/08  
Date Received: 12/9/08

Lab Work Order 08-9379  
Lab Sample ID: 08-9379-06A  
Sample Matrix: Water

## AROMATIC VOLATILE ORGANICS

Method: SW8021B

Prep Method: SW5030B

Date Prepared: 12/9/08

Lab File ID: TVB41209\028R

Dilution Factor: 1

Date Analyzed: 12/10/08

Method Blank: MB4120908

Analytes	CAS Number	Result	LQL	Units
Benzene	71-43-2	U	1.0	µg/L
Toluene	108-88-3	U	2.0	µg/L
Ethylbenzene	100-41-4	U	2.0	µg/L
m,p-Xylene	1330-20-7	U	2.0	µg/L
o-Xylene	95-47-6	U	2.0	µg/L
Surr: 1,2,4-Trichlorobenzene (S)	120-82-1	88	QC Limits: 60-140	%REC

VM

Analyst

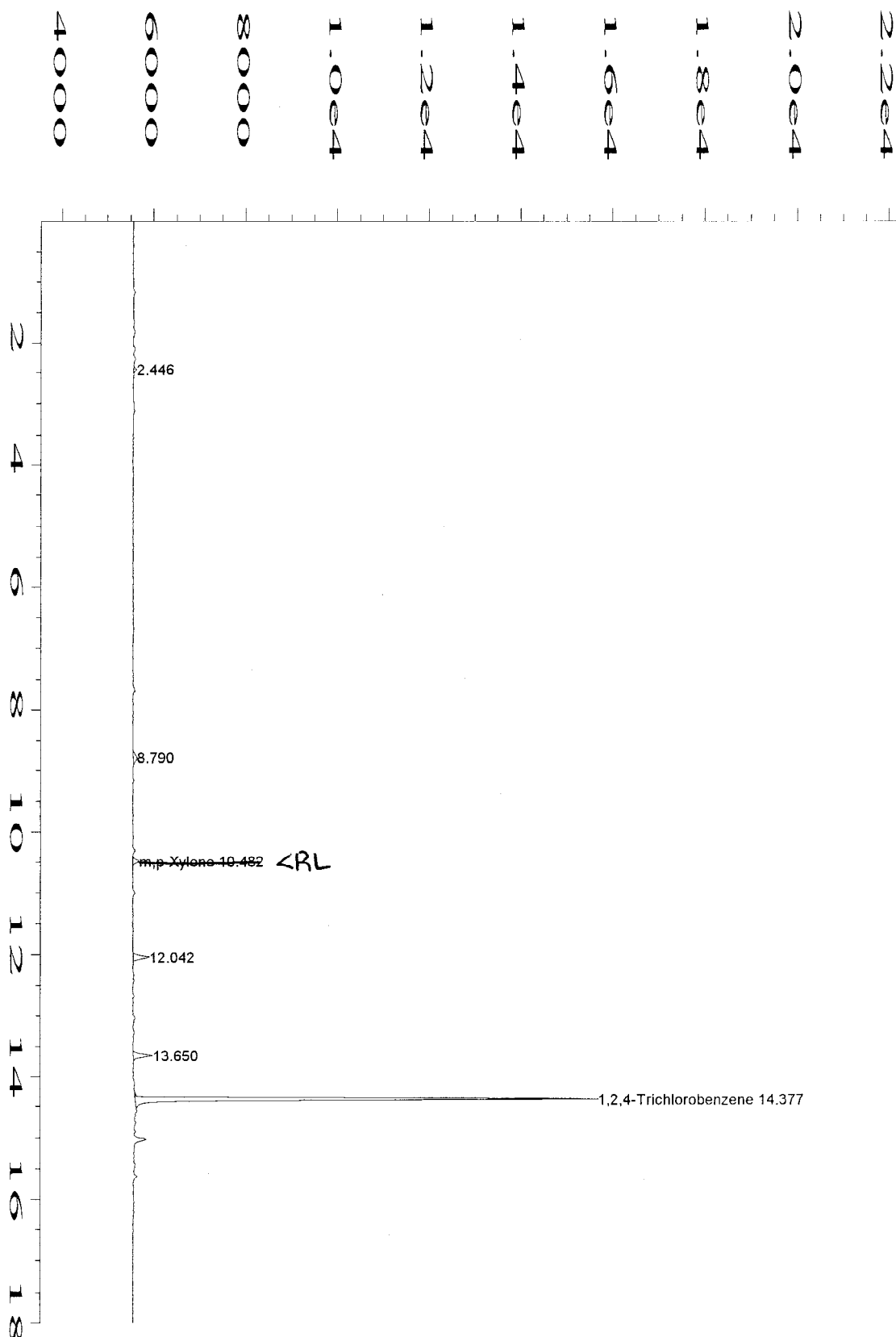
Approved

Notes: Total Xylenes consist of three isomers, two of which co-elute. The Xylene RL is for a single peak. Confirmation analysis was not performed.

**Qualifiers:** B - Analyte detected in the associated Method Blank, value not subtracted from result  
E - Extrapolated value. Value exceeds calibration range  
H - Sample analysis exceeded analytical holding time  
J - Indicates an estimated value when the compound is detected, but is below the LQL  
S - Spike Recovery outside accepted limits  
U - Compound analyzed for but not detected  
X - See case narrative  
\* - Value exceeded the Maximum Contamination Level (MCL), TCLP limit, or if compound is undetected, LQL exceeds MCL.

**Definitions:** LQL - Lower Quantitation Limit  
Surr - Surrogate

Print Date: 12/10/08



Data File Name	: C:\HPCHEM\1\DATA\TVB41209\028R0101.D	Page Number	: 1
Operator	: Virginia Meyer	Vial Number	: 28
Instrument	: TVHBTEX4	Injection Number	: 1
Sample Name	: 08-9379-06A	Sequence Line	: 1
Run Time Bar Code:		Instrument Method:	TS40717M.MTH
Acquired on	: 10 Dec 08 02:18 AM	Analysis Method	: BS41205.MTH
Report Created on:	10 Dec 08 02:36 AM	Sample Amount	: 0
Last Recalib on	: 08 DEC 08 07:34 AM	ISTD Amount	:
Multiplier	: 1		
Sample Info	: SAMP		
	DF=1		

VM 12-10-08

**Evergreen Analytical, Inc.**  
4036 Youngfield Street, Wheat Ridge, Colorado 80033-3862  
(303) 425-6021

Client Project ID 008-2067

Lab Order: 08-9379  
Units:  $\mu\text{mhos/cm}$

**Specific Conductance @ 25°C**  
**Specific Conductance**

Method: SM2510 B

Prep Method: SM2510 B

Lab ID	Client ID	Matrix	Date Received	Collection Date	Date Prepared	Date Analyzed	Results	LQL	DF
08-9379-01B	MW27	Water	12/9/08	12/8/08	12/11/08	12/11/08	1240	1.00	1
08-9379-02B	MW23	Water	12/9/08	12/8/08	12/11/08	12/11/08	1590	1.00	1
08-9379-03B	MW20	Water	12/9/08	12/8/08	12/11/08	12/11/08	864	1.00	1
08-9379-04B	MW21	Water	12/9/08	12/8/08	12/11/08	12/11/08	1010	1.00	1
08-9379-05B	MW18	Water	12/9/08	12/8/08	12/11/08	12/11/08	680	1.00	1
08-9379-06B	MW22	Water	12/9/08	12/8/08	12/11/08	12/11/08	884	1.00	1

Comments:

  
\_\_\_\_\_  
Analyst  
\_\_\_\_\_  
Approved

**Qualifiers:** J - Indicates an estimated value when the compound is detected, but is below the LQL  
H - Sample analysis exceeded analytical holding time  
U - Compound analyzed for but not detected  
X - See case narrative  
\*-Value exceeds Maximum Contamination Level(MCL), TCLP limit, or if compound is undetected, LQL exceeds MCL.

**Definitions:** DF - Dilution Factor  
LQL - Lower Quantitation Limit

Print Date: 12/15/2008

**Evergreen Analytical, Inc.**  
4036 Youngfield Street, Wheat Ridge, Colorado 80033-3862  
(303) 425-6021

Client Project ID 008-2067

Lab Order: 08-9379  
Units: pH Units

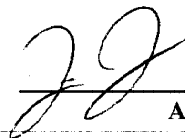
**E150.1 pH  
pH**

Method: E150.1

Prep Method: E150.1

Lab ID	Client ID	Matrix	Date Received	Collection Date	Date Prepared	Date Analyzed	Results	LQL	DF
08-9379-01B	MW27	Water	12/9/08	12/8/08 1100	12/9/08	12/9/08 1055	7.73	1.00	1
08-9379-02B	MW23	Water	12/9/08	12/8/08 1120	12/9/08	12/9/08 1055	7.51	1.00	1
08-9379-03B	MW20	Water	12/9/08	12/8/08 1150	12/9/08	12/9/08 1055	7.31	1.00	1
08-9379-04B	MW21	Water	12/9/08	12/8/08 1220	12/9/08	12/9/08 1055	7.47	1.00	1
08-9379-05B	MW18	Water	12/9/08	12/8/08 1245	12/9/08	12/9/08 1055	7.42	1.00	1
08-9379-06B	MW22	Water	12/9/08	12/8/08 1315	12/9/08	12/9/08 1055	7.38	1.00	1

Comments:



Analyst



Approved

**Qualifiers:** J - Indicates an estimated value when the compound is detected, but is below the LQL  
H - Sample analysis exceeded analytical holding time  
U - Compound analyzed for but not detected  
X - See case narrative  
\*-Value exceeds Maximum Contamination Level(MCL), TCLP limit, or if compound is undetected, LQL exceeds MCL.

**Definitions:** DF - Dilution Factor  
LQL - Lower Quantitation Limit

Print Date: 12/15/2008

**Evergreen Analytical, Inc.**  
4036 Youngfield Street, Wheat Ridge, Colorado 80033-3862  
(303) 425-6021

Client Project ID 008-2067

Lab Order: 08-9379

Units: mg/L

**Total Dissolved Solids (TDS)****Total Dissolved Solids**

Method: SM 2540C

Prep Method: SM 2540C

Lab ID	Client ID	Matrix	Date Received	Collection Date	Date Prepared	Date Analyzed	Results	LQL	DF
08-9379-01B	MW27	Water	12/9/08	12/8/08	12/11/08	12/11/08	980	10.0	1
08-9379-02B	MW23	Water	12/9/08	12/8/08	12/11/08	12/11/08	1230	10.0	1
08-9379-03B	MW20	Water	12/9/08	12/8/08	12/11/08	12/11/08	644	10.0	1
08-9379-04B	MW21	Water	12/9/08	12/8/08	12/11/08	12/11/08	718	10.0	1
08-9379-05B	MW18	Water	12/9/08	12/8/08	12/11/08	12/11/08	478	10.0	1
08-9379-06B	MW22	Water	12/9/08	12/8/08	12/11/08	12/11/08	612	10.0	1

Comments:

  
\_\_\_\_\_  
Analyst  
\_\_\_\_\_  
Approved

**Qualifiers:** J - Indicates an estimated value when the compound is detected, but is below the LQL  
H - Sample analysis exceeded analytical holding time  
U - Compound analyzed for but not detected  
X - See case narrative  
\*-Value exceeds Maximum Contamination Level(MCL), TCLP limit, or if compound is undetected, LQL exceeds MCL.

**Definitions:** DF - Dilution Factor  
LQL - Lower Quantitation Limit

Print Date: 12/15/2008

**Evergreen Analytical, Inc.**  
 4036 Youngfield Street, Wheat Ridge, Colorado 80033-3862  
 (303) 425-6021

Client Project ID 008-2067

Lab Order: 08-9379

Units: mg/L

**RSKSOP-175M Headspace****Methane****Method: RSKSOP175M****Prep Method: RSKSOP175M**

Lab ID	Client ID	Matrix	Date Received	Collection Date	Date Prepared	Date Analyzed	Results	LQL	DF
08-9379-01C	MW27	Water	12/9/08	12/8/08	12/10/08	12/10/08	U	0.00080	1
08-9379-02C	MW23	Water	12/9/08	12/8/08	12/10/08	12/10/08	0.45	0.016	20
08-9379-03C	MW20	Water	12/9/08	12/8/08	12/10/08	12/10/08	0.0011	0.00080	1
08-9379-04C	MW21	Water	12/9/08	12/8/08	12/10/08	12/10/08	U	0.00080	1
08-9379-05C	MW18	Water	12/9/08	12/8/08	12/10/08	12/10/08	0.034	0.00080	1
08-9379-06C	MW22	Water	12/9/08	12/8/08	12/10/08	12/10/08	U	0.00080	1

**Comments:**

VM

Analyst

Approved

**Qualifiers:** J - Indicates an estimated value when the compound is detected, but is below the LQL  
 H - Sample analysis exceeded analytical holding time  
 U - Compound analyzed for but not detected  
 X - See case narrative  
 \*-Value exceeds Maximum Contamination Level(MCL), TCLP limit, or if compound is undetected, LQL exceeds MCL.

**Definitions:** DF - Dilution Factor  
 LQL - Lower Quantitation Limit

Print Date: 12/11/08

# Evergreen Analytical, Inc.

4036 Youngfield Street, Wheat Ridge, Colorado 80033-3862  
(303) 425-6021

Client Project ID 008-2067  
Date Received: 12/9/08

Lab Order: 08-9379  
Date Prepared: 12/10/08  
Units: mg/L

## Dissolved Metals Sodium

Method: SW6010B

Prep Method: E200.7/SW3010A

Lab ID	Client ID	Matrix	Date Collected	Date Analyzed	Results	LQL	DF
08-9379-01D	MW27	Water	12/8/08	12/11/08	260	0.40	1
08-9379-02D	MW23	Water	12/8/08	12/11/08	430	0.40	1
08-9379-03D	MW20	Water	12/8/08	12/11/08	110	0.40	1
08-9379-04D	MW21	Water	12/8/08	12/11/08	230	0.40	1
08-9379-05D	MW18	Water	12/8/08	12/11/08	64	0.40	1
08-9379-06D	MW22	Water	12/8/08	12/11/08	140	0.40	1



Analyst



Approved

**Qualifiers:** B - Analyte detected in the associated Method Blank, value not subtracted from result  
E - Extrapolated value. Value exceeds calibration range  
H - Sample analysis exceeded analytical holding time  
J - Indicates an estimated value when the compound is detected, but is below the LQL  
S - Spike Recovery outside accepted limits  
U - Compound analyzed for but not detected  
X - See case narrative  
\* - Value exceeded the Maximum Contamination Level (MCL), TCLP limit, or if compound is undetected, LQL exceeds MCL.

**Definitions:** DF - Dilution Factor  
PF - Prep Factor  
LQL - Lower Quantitation Limit

Print Date: 12/18/2008



## **QUALITY ASSURANCE REPORTS**

**METHOD BLANKS (MB)**

**LABORATORY CONTROL SPIKES (LCS)**

**MATRIX SPIKES (MS/MSD)\***

**DUPLICATES (DUP)\***

- **For Metals or Wet Chemistry analyses: only included if requested.**

Work Order: 08-9379  
Client Project ID: 008-2067

## ANALYTICAL QC SUMMARY REPORT

BatchID: R43940

Sample ID: MB4120908	SampType: MBLK	TestCode: 8021_W	Run ID: TVHBTEX4_081209A	Prep Date: 12/9/08	Units: µg/L						
	Batch ID: R43940	TestNo: SW8021B	FileID: TVB41209\001R	Analysis Date: 12/9/08	SeqNo: 778499						
Analyte	Result	LQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Benzene	U	1.0									
Toluene	U	2.0									
Ethylbenzene	U	2.0									
m,p-Xylene	U	2.0									
o-Xylene	U	2.0									
Surr: 1,2,4-Trichlorobenzene (S)	91.73	0	100	0	91.7	60	140	0	0		

Sample ID: LCS4120908	SampType: LCS	TestCode: 8021_W	Run ID: TVHBTEX4_081209A	Prep Date: 12/9/08	Units: µg/L						
	Batch ID: R43940	TestNo: SW8021B	FileID: TVB41209\002R	Analysis Date: 12/9/08	SeqNo: 778500						
Analyte	Result	LQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Benzene	26.72	1.0	25.5	0	105	70	130	0	0		
Toluene	192.5	2.0	183.6	0	105	70	130	0	0		
Ethylbenzene	37.4	2.0	36.8	0	102	70	130	0	0		
m,p-Xylene	147.9	2.0	136.3	0	108	70	130	0	0		
o-Xylene	59.17	2.0	57.2	0	103	70	130	0	0		
Surr: 1,2,4-Trichlorobenzene (S)	109.5	0	100	0	109	60	140	0	0		

Sample ID: 08-9342-06AMS	SampType: MS	TestCode: 8021_W	Run ID: TVHBTEX4_081209A	Prep Date: 12/9/08	Units: µg/L						
	Batch ID: R43940	TestNo: SW8021B	FileID: TVB41209\005R	Analysis Date: 12/9/08	SeqNo: 778502						
Analyte	Result	LQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Benzene	22.74	1.0	25.5	0	89.2	70	130	0	0		
Toluene	163.7	2.0	183.6	0	89.2	70	130	0	0		
Ethylbenzene	30.74	2.0	36.8	0	83.5	62	130	0	0		
m,p-Xylene	123.7	2.0	136.3	0	90.8	70	134	0	0		
o-Xylene	48.71	2.0	57.2	0	85.2	63	130	0	0		
Surr: 1,2,4-Trichlorobenzene (S)	102.6	0	100	0	103	60	140	0	0		

Qualifiers:

- U - Not detected at or above the Reporting Limit
- J - Analyte detected below quantitation limits
- S - Spike Recovery outside acceptance limits
- E - Extrapolated value, value exceeds calibration range.

- R - RPD outside acceptance limits
- B - Analyte detected in the associated Method Blank
- H - Prep or analytical holding time exceeded
- X - See case narrative

Work Order: 08-9379  
Client Project ID: 008-2067

## ANALYTICAL QC SUMMARY REPORT

BatchID: R43940

Sample ID: 08-9342-06AMSD	SampType: MSD	TestCode: 8021_W	Run ID: TVHBTEX4_081209A					Prep Date: 12/9/08	Units: µg/L		
	Batch ID: R43940	TestNo: SW8021B	FileID: TVB41209\006R					Analysis Date: 12/9/08	SeqNo: 778503		
Analyte	Result	LQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	22.92	1.0	25.5	0	89.9	70	130	22.74	0.749	30	
Toluene	164.1	2.0	183.6	0	89.4	70	130	163.7	0.231	30	
Ethylbenzene	31.54	2.0	36.8	0	85.7	62	130	30.74	2.57	30	
m,p-Xylene	124.3	2.0	136.3	0	91.2	70	134	123.7	0.481	30	
o-Xylene	49.08	2.0	57.2	0	85.8	63	130	48.71	0.755	30	
Surr: 1,2,4-Trichlorobenzene (S)	99.62	0	100	0	99.6	60	140	0	0	0	

## Qualifiers:

U - Not detected at or above the Reporting Limit  
J - Analyte detected below quantitation limits  
S - Spike Recovery outside acceptance limits  
E - Extrapolated value, value exceeds calibration range.

R - RPD outside acceptance limits  
B - Analyte detected in the associated Method Blank  
H - Prep or analytical holding time exceeded  
X - See case narrative

Work Order: 08-9379

Client Project ID: 008-2067

## ANALYTICAL QC SUMMARY REPORT

TestCode: COND\_W

Sample ID	LCS	SampType: LCS	TestCode: COND_W	Run ID: COND_081211A	Prep Date: 12/11/2008	Units: µmhos/cm						
		Batch ID: R43980	TestNo: SM2510 B	FileID: 1	Analysis Date: 12/11/2008	SeqNo: 779275						
Analyte		Result	LQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Specific Conductance		93.1	1.00	100.1	0	93	90	110	0	0		

Sample ID	LCS	SampType: LCS	TestCode: COND_W	Run ID: COND_081211A	Prep Date: 12/11/2008	Units: µmhos/cm						
		Batch ID: R43980	TestNo: SM2510 B	FileID: 23	Analysis Date: 12/11/2008	SeqNo: 779308						
Analyte		Result	LQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Specific Conductance		95.8	1.00	100.1	0	95.7	90	110	0	0		

## Qualifiers:

U - Not detected at or above the Reporting Limit  
J - Analyte detected below quantitation limits  
S - Spike Recovery outside acceptance limits  
E - Extrapolated value, value exceeds calibration range.

R - RPD outside acceptance limits  
B - Analyte detected in the associated Method Blank  
H - Prep or analytical holding time exceeded  
X - See case narrative

Work Order: 08-9379  
Client Project ID: 008-2067

## ANALYTICAL QC SUMMARY REPORT

TestCode: PH\_DW

Sample ID	LCS-R43915	SampType: LCS	TestCode: PH_DW	Run ID: PH_081209B	Prep Date: 12/9/2008	Units: pH Units					
		Batch ID: R43915	TestNo: E150.1	FileID:	Analysis Date: 12/9/2008	SeqNo: 777933					
Analyte	Result	LQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
pH	7.98	1.00	8	0	99.8	99.3	100.7	0	0		

**Qualifiers:**  
U - Not detected at or above the Reporting Limit  
J - Analyte detected below quantitation limits  
S - Spike Recovery outside acceptance limits  
E - Extrapolated value, value exceeds calibration range.

R - RPD outside acceptance limits  
B - Analyte detected in the associated Method Blank  
H - Prep or analytical holding time exceeded  
X - See case narrative

Work Order: 08-9379  
Client Project ID: 008-2067

## ANALYTICAL QC SUMMARY REPORT

TestCode: TDS\_W

Sample ID	MBLK 121108	SampType:	MBLK	TestCode:	TDS_W	Run ID:	ANALYTICAL BALANCE_081211B			Prep Date:	12/11/2008	Units:	mg/L
		Batch ID:	R44026	TestNo:	SM 2540C	FileID:	47			Analysis Date:	12/11/2008	SeqNo:	780243
Analyte		Result	LQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	

Total Dissolved Solids U 10.0

Sample ID	LCS	SampType: LCS	TestCode: TDS_W	Run ID: ANALYTICAL BALANCE_081211B	Prep Date: 12/11/2008	Units: mg/L						
		Batch ID: R44026	TestNo: SM 2540C	FileID: 48	Analysis Date: 12/11/2008	SeqNo: 780244						
Analyte		Result	LQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Total Dissolved Solids 393 10.0 400 0 98.2 90 110 0 0

**Qualifiers:**  
U - Not detected at or above the Reporting Limit  
J - Analyte detected below quantitation limits  
S - Spike Recovery outside acceptance limits  
E - Extrapolated value, value exceeds calibration range.

R - RPD outside acceptance limits  
B - Analyte detected in the associated Method Blank  
H - Prep or analytical holding time exceeded  
X - See case narrative

Work Order: 08-9379  
Client Project ID: 008-2067

## ANALYTICAL QC SUMMARY REPORT

BatchID: GAS121008

Sample ID: <b>GB121008</b>	SampType: <b>MBLK</b>	TestCode: <b>MEEP_W</b>	Run ID: <b>FID4_081210A</b>	Prep Date: <b>12/10/08</b>	Units: <b>mg/L</b>						
	Batch ID: <b>GAS121008</b>	TestNo: <b>RSKSOP175</b>	FileID: <b>GAS121004</b>	Analysis Date: <b>12/10/08</b>	SeqNo: <b>779270</b>						
Analyte	Result	LQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Methane U 0.00080

Sample ID: <b>LCS121008</b>	SampType: <b>LCS</b>	TestCode: <b>MEEP_W</b>	Run ID: <b>FID4_081210A</b>	Prep Date: <b>12/10/08</b>	Units: <b>mg/L</b>						
	Batch ID: <b>GAS121008</b>	TestNo: <b>RSKSOP175</b>	FileID: <b>GAS121005</b>	Analysis Date: <b>12/10/08</b>	SeqNo: <b>779271</b>						
Analyte	Result	LQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Methane 0.5727 0.0080 0.5094 0 112 70 130 0 0

Sample ID: <b>LCSD121008</b>	SampType: <b>LCSD</b>	TestCode: <b>MEEP_W</b>	Run ID: <b>FID4_081210A</b>	Prep Date: <b>12/10/08</b>	Units: <b>mg/L</b>						
	Batch ID: <b>GAS121008</b>	TestNo: <b>RSKSOP175</b>	FileID: <b>GAS121006</b>	Analysis Date: <b>12/10/08</b>	SeqNo: <b>779272</b>						
Analyte	Result	LQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Methane 0.5925 0.0080 0.5094 0 116 70 130 0.5727 3.40 30

Sample ID: 08-9379-01CMS	SampType: MS	TestCode: MEEP_W	Run ID: FID4_081210A	Prep Date: 12/10/08	Units: mg/L						
Client ID: MW27	Batch ID: GAS121008	TestNo: RSKSOP175	FileID: GAS121023	Analysis Date: 12/10/08	SeqNo: 779256						
Analyte	Result	LQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Methane 0.4959 0.0080 0.5094 0 97.3 70 130 0 0

Sample ID: 08-9379-01CMSD	SampType: MSD	TestCode: MEEP_W	Run ID: FID4_081210A	Prep Date: 12/10/08	Units: mg/L						
Client ID: MW27	Batch ID: GAS121008	TestNo: RSKSOP175	FileID: GAS121024	Analysis Date: 12/10/08	SeqNo: 779257						
Analyte	Result	LQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Methane 0.5 0.0080 0.5094 0 98.1 70 130 0.4959 0.817 30

## Qualifiers:

U - Not detected at or above the Reporting Limit  
J - Analyte detected below quantitation limits  
S - Spike Recovery outside acceptance limits  
E - Extrapolated value, value exceeds calibration range.R - RPD outside acceptance limits  
B - Analyte detected in the associated Method Blank  
H - Prep or analytical holding time exceeded  
X - See case narrative

Work Order: 08-9379

Client Project ID: 008-2067

## ANALYTICAL QC SUMMARY REPORT

BatchID: 17504

Sample ID: <b>MB-17504</b>	SampType: <b>MBLK</b>	TestCode: <b>200.7_D</b>	Run ID: <b>ICP-OPTIMA 5300 DV_081211A</b>	Prep Date: <b>12/10/2008</b>	Units: <b>mg/L</b>						
	Batch ID: <b>17504</b>	TestNo: <b>E200.7, Rev.</b>	FileID: <b>121108am</b>	Analysis Date: <b>12/11/2008</b>	SeqNo: <b>779656</b>						
Analyte	Result	LQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Sodium	U	0.400									
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Sample ID: <b>LCS-17504</b>	SampType: <b>LCS</b>	TestCode: <b>200.7_D</b>	Run ID: <b>ICP-OPTIMA 5300 DV_081211A</b>	Prep Date: <b>12/10/2008</b>	Units: <b>mg/L</b>						
	Batch ID: <b>17504</b>	TestNo: <b>E200.7, Rev.</b>	FileID: <b>121108am</b>	Analysis Date: <b>12/11/2008</b>	SeqNo: <b>779657</b>						
Analyte	Result	LQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Sodium	10.03	0.400	10	0.344	100	80	120	0	0		
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Sample ID: 08-9421-01BMS	SampType: MS	TestCode: 200.7_D	Run ID: ICP-OPTIMA 5300 DV_081211A	Prep Date: 12/10/2008	Units: mg/L						
	Batch ID: 17504	TestNo: E200.7, Rev.	FileID: 121108am	Analysis Date: 12/11/2008	SeqNo: 779659						
Analyte	Result	LQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Sodium	33.81	0.500	12.5	20.67	105	75	125	0	0		
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Sample ID: 08-9421-01BMSD	SampType: MSD	TestCode: 200.7_D	Run ID: ICP-OPTIMA 5300 DV_081211A	Prep Date: 12/10/2008	Units: mg/L						
	Batch ID: 17504	TestNo: E200.7, Rev.	FileID: 121108am	Analysis Date: 12/11/2008	SeqNo: 779664						
Analyte	Result	LQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

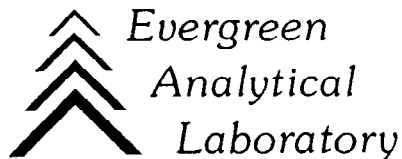
Sodium	33.43	0.500	12.5	20.67	102	75	125	33.81	1.10	20	
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## Qualifiers:

U - Not detected at or above the Reporting Limit  
 J - Analyte detected below quantitation limits  
 S - Spike Recovery outside acceptance limits  
 E - Extrapolated value, value exceeds calibration range.

R - RPD outside acceptance limits  
 B - Analyte detected in the associated Method Blank  
 H - Prep or analytical holding time exceeded  
 X - See case narrative





December 22, 2008

Stuart Hall  
Cordilleran Compliance  
826 21 1/2 Road  
Grand Junction, CO 81505

Lab Work Order: 08-9379  
Client Project ID: 008-2067

Dear Stuart Hall:

Enclosed are the analytical results for the samples shown in the Laboratory Work Order Summary. The invoice is included with this report or has been mailed to another party as indicated on the chain of custody.

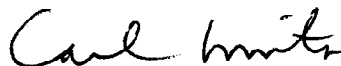
The enclosed data for testing performed at Evergreen Analytical Laboratory (EAL) have been reviewed for quality assurance. A case narrative is included to describe any anomalies associated with the samples or data.

EAL will dispose of all samples 44 days from the sample receipt date. If you want samples returned, please advise us by mail or fax as soon as possible.

A copy of this project report and supporting data will be retained for a period of five years unless we are otherwise advised by you. A document retrieval charge will apply.

Thank you for using the services of Evergreen Analytical. If you have any questions concerning the analytical data, please contact me. Please direct other questions to Client Services.

Sincerely,



Kaprie Hollman/Carl Smits  
Quality Assurance

## WORK ORDER Summary

Evergreen Analytical, Inc.

08-9411

Rpt To: Stuart Hall

12/10/2008 10:07:46 AM

Cordilleran Compliance

Client Project ID: 008-2067

826 21 1/2 Road

Grand Junction, CO 81505

QC Level: LEVEL I

(970) 263-7800

Comments: Add Sample Summary Report to all results packages.

Sample ID	Client Sample ID	Matrix	Collection Date	Date Received	Test Code	Test Name	Hold	MS	Date Due	Hold Time
08-9411-01A	MW8	Water	12/09/08 1340	12/10/08	8021_W *	8021: BTEX	<input type="checkbox"/>	<input type="checkbox"/>	12/15/08	12/16/08
08-9411-01B	MW8	Water	12/09/08 1340	12/10/08	MEEP_W *	RSK175M: Methane	<input type="checkbox"/>	<input type="checkbox"/>	12/24/08	12/16/08
08-9411-01C	MW8	Water	12/09/08 1340	12/10/08	COND_W	Specific Conductance @ 25°C	<input type="checkbox"/>	<input type="checkbox"/>	12/24/08	1/06/09
08-9411-01C	MW8	Water	12/09/08 1340	12/10/08	PH_DW	E150.1 pH	<input type="checkbox"/>	<input type="checkbox"/>	12/24/08	12/10/08
08-9411-01C	MW8	Water	12/09/08 1340	12/10/08	TDS_W	Total Dissolved Solids (TDS)	<input type="checkbox"/>	<input type="checkbox"/>	12/24/08	12/16/08
08-9411-01D	MW8	Water	12/09/08 1340	12/10/08	6010_D *	6010: Dissolved Metals	<input type="checkbox"/>	<input type="checkbox"/>	12/24/08	6/07/09
08-9411-02A	MW11	Water	12/09/08 1040	12/10/08	8021_W *	8021: BTEX	<input type="checkbox"/>	<input type="checkbox"/>	12/15/08	12/16/08
08-9411-02B	MW11	Water	12/09/08 1040	12/10/08	MEEP_W *	RSK175M: Methane	<input type="checkbox"/>	<input type="checkbox"/>	12/24/08	12/16/08
08-9411-02C	MW11	Water	12/09/08 1040	12/10/08	COND_W	Specific Conductance @ 25°C	<input type="checkbox"/>	<input type="checkbox"/>	12/24/08	1/06/09
08-9411-02C	MW11	Water	12/09/08 1040	12/10/08	PH_DW	E150.1 pH	<input type="checkbox"/>	<input type="checkbox"/>	12/24/08	12/10/08
08-9411-02C	MW11	Water	12/09/08 1040	12/10/08	TDS_W	Total Dissolved Solids (TDS)	<input type="checkbox"/>	<input type="checkbox"/>	12/24/08	12/16/08
08-9411-02D	MW11	Water	12/09/08 1040	12/10/08	6010_D *	6010: Dissolved Metals	<input type="checkbox"/>	<input type="checkbox"/>	12/24/08	6/07/09
08-9411-03A	MW9	Water	12/09/08 1055	12/10/08	8021_W *	8021: BTEX	<input type="checkbox"/>	<input type="checkbox"/>	12/15/08	12/16/08
08-9411-03B	MW9	Water	12/09/08 1055	12/10/08	MEEP_W *	RSK175M: Methane	<input type="checkbox"/>	<input type="checkbox"/>	12/24/08	12/16/08
08-9411-03C	MW9	Water	12/09/08 1055	12/10/08	COND_W	Specific Conductance @ 25°C	<input type="checkbox"/>	<input type="checkbox"/>	12/24/08	1/06/09
08-9411-03C	MW9	Water	12/09/08 1055	12/10/08	PH_DW	E150.1 pH	<input type="checkbox"/>	<input type="checkbox"/>	12/24/08	12/10/08
08-9411-03C	MW9	Water	12/09/08 1055	12/10/08	TDS_W	Total Dissolved Solids (TDS)	<input type="checkbox"/>	<input type="checkbox"/>	12/24/08	12/16/08
08-9411-03D	MW9	Water	12/09/08 1055	12/10/08	6010_D *	6010: Dissolved Metals	<input type="checkbox"/>	<input type="checkbox"/>	12/24/08	6/07/09
08-9411-04A	MW14	Water	12/09/08 1125	12/10/08	8021_W *	8021: BTEX	<input type="checkbox"/>	<input type="checkbox"/>	12/15/08	12/16/08
08-9411-04B	MW14	Water	12/09/08 1125	12/10/08	MEEP_W *	RSK175M: Methane	<input type="checkbox"/>	<input type="checkbox"/>	12/24/08	12/16/08
08-9411-04C	MW14	Water	12/09/08 1125	12/10/08	COND_W	Specific Conductance @ 25°C	<input type="checkbox"/>	<input type="checkbox"/>	12/24/08	1/06/09
08-9411-04C	MW14	Water	12/09/08 1125	12/10/08	PH_DW	E150.1 pH	<input type="checkbox"/>	<input type="checkbox"/>	12/24/08	12/10/08

Definitions: \* - Test Code has a Select List

## WORK ORDER Summary

Evergreen Analytical, Inc.

08-9411

Rpt To: Stuart Hall

12/10/2008 10:07:46 AM

Cordilleran Compliance

Client Project ID: 008-2067

826 21 1/2 Road

Grand Junction, CO 81505

QC Level: LEVEL I

(970) 263-7800

08-9411-04C	MW14	Water	12/09/08 1125	12/10/08	TDS_W	Total Dissolved Solids (TDS)	<input type="checkbox"/>	<input type="checkbox"/>	12/24/08	12/16/08
08-9411-04D	MW14	Water	12/09/08 1125	12/10/08	6010_D *	6010: Dissolved Metals	<input type="checkbox"/>	<input type="checkbox"/>	12/24/08	6/07/09
08-9411-05A	MW12	Water	12/09/08 1015	12/10/08	8021_W *	8021: BTEX	<input type="checkbox"/>	<input type="checkbox"/>	12/15/08	12/16/08
08-9411-05B	MW12	Water	12/09/08 1015	12/10/08	MEEP_W *	RSK175M: Methane	<input type="checkbox"/>	<input type="checkbox"/>	12/24/08	12/16/08
08-9411-05C	MW12	Water	12/09/08 1015	12/10/08	COND_W	Specific Conductance @ 25°C	<input type="checkbox"/>	<input type="checkbox"/>	12/24/08	1/06/09
08-9411-05C	MW12	Water	12/09/08 1015	12/10/08	PH_DW	E150.1 pH	<input type="checkbox"/>	<input type="checkbox"/>	12/24/08	12/10/08
08-9411-05C	MW12	Water	12/09/08 1015	12/10/08	TDS_W	Total Dissolved Solids (TDS)	<input type="checkbox"/>	<input type="checkbox"/>	12/24/08	12/16/08
08-9411-05D	MW12	Water	12/09/08 1015	12/10/08	6010_D *	6010: Dissolved Metals	<input type="checkbox"/>	<input type="checkbox"/>	12/24/08	6/07/09
08-9411-06A	MW16	Water	12/09/08 1115	12/10/08	8021_W *	8021: BTEX	<input type="checkbox"/>	<input type="checkbox"/>	12/15/08	12/16/08
08-9411-06B	MW16	Water	12/09/08 1115	12/10/08	MEEP_W *	RSK175M: Methane	<input type="checkbox"/>	<input type="checkbox"/>	12/24/08	12/16/08
08-9411-06C	MW16	Water	12/09/08 1115	12/10/08	COND_W	Specific Conductance @ 25°C	<input type="checkbox"/>	<input type="checkbox"/>	12/24/08	1/06/09
08-9411-06C	MW16	Water	12/09/08 1115	12/10/08	PH_DW	E150.1 pH	<input type="checkbox"/>	<input type="checkbox"/>	12/24/08	12/10/08
08-9411-06C	MW16	Water	12/09/08 1115	12/10/08	TDS_W	Total Dissolved Solids (TDS)	<input type="checkbox"/>	<input type="checkbox"/>	12/24/08	12/16/08
08-9411-06D	MW16	Water	12/09/08 1115	12/10/08	6010_D *	6010: Dissolved Metals	<input type="checkbox"/>	<input type="checkbox"/>	12/24/08	6/07/09

Date/Time  
12-10-08  
10<sup>45</sup>

**Evergreen Analytical, Inc.**

**Date:** 23-Dec-08

**Lab Order:** 08-9411  
**Client Project ID** 008-2067

## **CASE NARRATIVE**

---

### **SAMPLE RECEIVING**

Custody seals were present and intact.

The temperature of the sample(s) upon arrival was 2.0°C.

Sample(s) were received in good condition, in the proper container, and within holding times.

VOC samples were not preserved.

VOC sample(s) were received with no headspace present. JD

### **QUALITY ASSURANCE (QA)**

Analyses performed on samples in this work order by EAL meet the requirements of the EAL Quality Assurance Program unless otherwise explained. Analyses of RCRA samples meet the requirements of NELAC and Utah Rule R444-14 unless otherwise explained. CMS

### **CLIENT SERVICES**

There are no anomalies to report. AE

### **GENERAL CHEMISTRY**

There are no anomalies to report. MM

### **METALS ANALYSIS**

There are no anomalies to report. WKH

### **GAS CHROMATOGRAPHY**

Method RSK175: There are no anomalies to report. VM

Method 8021\_W: There are no anomalies to report. VM

---

## SUMMARY OF SAMPLE RESULTS

## Evergreen Analytical, Inc.

4036 Youngfield Street, Wheat Ridge, Colorado 80033-3862  
(303) 425-6021

Client Sample ID: MW8  
Client Project ID: 008-2067  
Date Collected: 12/9/08 1340  
Date Received: 12/10/08

Lab Work Order: 08-9411  
Lab Sample ID: 08-9411-01  
Sample Matrix: Water

<b>Dissolved Metals</b>	<b>Method: SW6010B</b>			<b>Analyst: MAB</b>
	<b>Result</b>	<b>LQL</b>	<b>DF</b>	<b>Units</b>
Sodium	180	0.40	1	mg/L
<b>Aromatic Volatile Organics</b>	<b>Method: SW8021B</b>			<b>Analyst: VM</b>
	<b>Result</b>	<b>LQL</b>	<b>DF</b>	<b>Units</b>
Benzene	U	1.0	1	µg/L
Ethylbenzene	U	2.0	1	µg/L
m,p-Xylene	U	2.0	1	µg/L
o-Xylene	U	2.0	1	µg/L
Toluene	U	2.0	1	µg/L
<b>Specific Conductance @ 25°C</b>	<b>Method: SM2510 B</b>			<b>Analyst: CJ</b>
	<b>Result</b>	<b>LQL</b>	<b>DF</b>	<b>Units</b>
Specific Conductance	1140	1.00	1	µmhos/cm
<b>RSKSOP-175M Headspace</b>	<b>Method: RSKSOP175M</b>			<b>Analyst: VM</b>
	<b>Result</b>	<b>LQL</b>	<b>DF</b>	<b>Units</b>
Methane	0.11	0.00080	1	mg/L
<b>E150.1 pH</b>	<b>Method: E150.1</b>			<b>Analyst: CJ</b>
	<b>Result</b>	<b>LQL</b>	<b>DF</b>	<b>Units</b>
pH	7.36	1.00	1	pH Units
<b>Total Dissolved Solids (TDS)</b>	<b>Method: SM 2540C</b>			<b>Analyst: JD</b>
	<b>Result</b>	<b>LQL</b>	<b>DF</b>	<b>Units</b>
Total Dissolved Solids	799	10.0	1	mg/L

**Qualifiers:** B - Analyte detected in the associated Method Blank, value not subtracted from result  
E - Extrapolated value. Value exceeds calibration range  
H - Sample analysis exceeded analytical holding time  
J - Indicates an estimated value when the compound is detected, but is below the LQL  
U - Compound analyzed for but not detected  
X - See case narrative  
\* - Value exceeded the Maximum Contamination Level (MCL), TCLP limit, or if compound is undetected, LQL exceeds MCL.

**Definitions:** NA - Not Applicable

Print Date: 12/22/2008

## SUMMARY OF SAMPLE RESULTS

## Evergreen Analytical, Inc.

4036 Youngfield Street, Wheat Ridge, Colorado 80033-3862  
(303) 425-6021

Client Sample ID: MW11  
Client Project ID: 008-2067  
Date Collected: 12/9/08 1040  
Date Received: 12/10/08

Lab Work Order: 08-9411  
Lab Sample ID: 08-9411-02  
Sample Matrix: Water

## Dissolved Metals

Method: SW6010B

Analyst: MAB

	Result	LQL	DF	Units
Sodium	39	0.40	1	mg/L

## Aromatic Volatile Organics

Method: SW8021B

Analyst: VM

	Result	LQL	DF	Units
Benzene	U	1.0	1	µg/L
Ethylbenzene	U	2.0	1	µg/L
m,p-Xylene	U	2.0	1	µg/L
o-Xylene	U	2.0	1	µg/L
Toluene	U	2.0	1	µg/L

## Specific Conductance @ 25°C

Method: SM2510 B

Analyst: CJ

	Result	LQL	DF	Units
Specific Conductance	635	1.00	1	µmhos/cm

## RSKSOP-175M Headspace

Method: RSKSOP175M

Analyst: VM

	Result	LQL	DF	Units
Methane	0.016	0.00080	1	mg/L

## E150.1 pH

Method: E150.1

Analyst: CJ

	Result	LQL	DF	Units
pH	7.28	1.00	1	pH Units

## Total Dissolved Solids (TDS)

Method: SM 2540C

Analyst: JD

	Result	LQL	DF	Units
Total Dissolved Solids	402	10.0	1	mg/L

**Qualifiers:** B - Analyte detected in the associated Method Blank, value not subtracted from result  
E - Extrapolated value. Value exceeds calibration range  
H - Sample analysis exceeded analytical holding time  
J - Indicates an estimated value when the compound is detected, but is below the LQL  
U - Compound analyzed for but not detected  
X - See case narrative  
\* - Value exceeded the Maximum Contamination Level (MCL), TCLP limit, or if compound is undetected, LQL exceeds MCL.

**Definitions:** NA - Not Applicable

Print Date: 12/22/2008

## SUMMARY OF SAMPLE RESULTS

## Evergreen Analytical, Inc.

4036 Youngfield Street, Wheat Ridge, Colorado 80033-3862  
(303) 425-6021

Client Sample ID: MW9  
Client Project ID: 008-2067  
Date Collected: 12/9/08 1055  
Date Received: 12/10/08

Lab Work Order: 08-9411  
Lab Sample ID: 08-9411-03  
Sample Matrix: Water

<b>Dissolved Metals</b>	<b>Method: SW6010B</b>			<b>Analyst: MAB</b>
	<b>Result</b>	<b>LQL</b>	<b>DF</b>	<b>Units</b>
Sodium	56	0.40	1	mg/L
<b>Aromatic Volatile Organics</b>	<b>Method: SW8021B</b>			<b>Analyst: VM</b>
	<b>Result</b>	<b>LQL</b>	<b>DF</b>	<b>Units</b>
Benzene	1.1	1.0	1	µg/L
Ethylbenzene	U	2.0	1	µg/L
m,p-Xylene	U	2.0	1	µg/L
o-Xylene	U	2.0	1	µg/L
Toluene	U	2.0	1	µg/L
<b>Specific Conductance @ 25°C</b>	<b>Method: SM2510 B</b>			<b>Analyst: CJ</b>
	<b>Result</b>	<b>LQL</b>	<b>DF</b>	<b>Units</b>
Specific Conductance	738	1.00	1	µmhos/cm
<b>RSKSOP-175M Headspace</b>	<b>Method: RSKSOP175M</b>			<b>Analyst: VM</b>
	<b>Result</b>	<b>LQL</b>	<b>DF</b>	<b>Units</b>
Methane	8.6	0.040	50	mg/L
<b>E150.1 pH</b>	<b>Method: E150.1</b>			<b>Analyst: CJ</b>
	<b>Result</b>	<b>LQL</b>	<b>DF</b>	<b>Units</b>
pH	7.30	1.00	1	pH Units
<b>Total Dissolved Solids (TDS)</b>	<b>Method: SM 2540C</b>			<b>Analyst: JD</b>
	<b>Result</b>	<b>LQL</b>	<b>DF</b>	<b>Units</b>
Total Dissolved Solids	501	10.0	1	mg/L

**Qualifiers:** B - Analyte detected in the associated Method Blank, value not subtracted from result  
E - Extrapolated value. Value exceeds calibration range  
H - Sample analysis exceeded analytical holding time  
J - Indicates an estimated value when the compound is detected, but is below the LQL  
U - Compound analyzed for but not detected  
X - See case narrative  
\* - Value exceeded the Maximum Contamination Level (MCL), TCLP limit, or if compound is undetected, LQL exceeds MCL.

**Definitions:** NA - Not Applicable

Print Date: 12/22/2008



## SUMMARY OF SAMPLE RESULTS

## Evergreen Analytical, Inc.

4036 Youngfield Street, Wheat Ridge, Colorado 80033-3862  
(303) 425-6021

Client Sample ID: MW14  
Client Project ID: 008-2067  
Date Collected: 12/9/08 1125  
Date Received: 12/10/08

Lab Work Order: 08-9411  
Lab Sample ID: 08-9411-04  
Sample Matrix: Water

Dissolved Metals	Method: SW6010B			Analyst: MAB
	Result	LQL	DF	Units
Sodium	46	0.40	1	mg/L
Aromatic Volatile Organics	Method: SW8021B			Analyst: VM
	Result	LQL	DF	Units
Benzene	U	1.0	1	µg/L
Ethylbenzene	U	2.0	1	µg/L
m,p-Xylene	U	2.0	1	µg/L
o-Xylene	U	2.0	1	µg/L
Toluene	U	2.0	1	µg/L
Specific Conductance @ 25°C	Method: SM2510 B			Analyst: CJ
	Result	LQL	DF	Units
Specific Conductance	773	1.00	1	µmhos/cm
RSKSOP-175M Headspace	Method: RSKSOP175M			Analyst: VM
	Result	LQL	DF	Units
Methane	4.7	0.016	20	mg/L
E150.1 pH	Method: E150.1			Analyst: CJ
	Result	LQL	DF	Units
pH	7.28	1.00	1	pH Units
Total Dissolved Solids (TDS)	Method: SM 2540C			Analyst: JD
	Result	LQL	DF	Units
Total Dissolved Solids	510	10.0	1	mg/L

**Qualifiers:** B - Analyte detected in the associated Method Blank, value not subtracted from result  
E - Extrapolated value. Value exceeds calibration range  
H - Sample analysis exceeded analytical holding time  
J - Indicates an estimated value when the compound is detected, but is below the LQL  
U - Compound analyzed for but not detected  
X - See case narrative  
\* - Value exceeded the Maximum Contamination Level (MCL), TCLP limit, or if compound is undetected, LQL exceeds MCL.

**Definitions:** NA - Not Applicable

Print Date: 12/22/2008

## SUMMARY OF SAMPLE RESULTS

## Evergreen Analytical, Inc.

4036 Youngfield Street, Wheat Ridge, Colorado 80033-3862  
(303) 425-6021

Client Sample ID: MW12  
Client Project ID: 008-2067  
Date Collected: 12/9/08 1015  
Date Received: 12/10/08

Lab Work Order: 08-9411  
Lab Sample ID: 08-9411-05  
Sample Matrix: Water

<b>Dissolved Metals</b>	<b>Method: SW6010B</b>			<b>Analyst: MAB</b>
	<b>Result</b>	<b>LQL</b>	<b>DF</b>	<b>Units</b>
Sodium	89	0.40	1	mg/L
<b>Aromatic Volatile Organics</b>	<b>Method: SW8021B</b>			<b>Analyst: VM</b>
	<b>Result</b>	<b>LQL</b>	<b>DF</b>	<b>Units</b>
Benzene	U	1.0	1	µg/L
Ethylbenzene	U	2.0	1	µg/L
m,p-Xylene	U	2.0	1	µg/L
o-Xylene	U	2.0	1	µg/L
Toluene	U	2.0	1	µg/L
<b>Specific Conductance @ 25°C</b>	<b>Method: SM2510 B</b>			<b>Analyst: CJ</b>
	<b>Result</b>	<b>LQL</b>	<b>DF</b>	<b>Units</b>
Specific Conductance	898	1.00	1	µmhos/cm
<b>RSKSOP-175M Headspace</b>	<b>Method: RSKSOP175M</b>			<b>Analyst: VM</b>
	<b>Result</b>	<b>LQL</b>	<b>DF</b>	<b>Units</b>
Methane	0.13	0.00080	1	mg/L
<b>E150.1 pH</b>	<b>Method: E150.1</b>			<b>Analyst: CJ</b>
	<b>Result</b>	<b>LQL</b>	<b>DF</b>	<b>Units</b>
pH	7.19	1.00	1	pH Units
<b>Total Dissolved Solids (TDS)</b>	<b>Method: SM 2540C</b>			<b>Analyst: JD</b>
	<b>Result</b>	<b>LQL</b>	<b>DF</b>	<b>Units</b>
Total Dissolved Solids	606	10.0	1	mg/L

**Qualifiers:** B - Analyte detected in the associated Method Blank, value not subtracted from result  
E - Extrapolated value. Value exceeds calibration range  
H - Sample analysis exceeded analytical holding time  
J - Indicates an estimated value when the compound is detected, but is below the LQL  
U - Compound analyzed for but not detected  
X - See case narrative  
\* - Value exceeded the Maximum Contamination Level (MCL), TCLP limit, or if compound is undetected, LQL exceeds MCL.

**Definitions:** NA - Not Applicable

Print Date: 12/22/2008

## SUMMARY OF SAMPLE RESULTS

## Evergreen Analytical, Inc.

4036 Youngfield Street, Wheat Ridge, Colorado 80033-3862  
(303) 425-6021

Client Sample ID: MW16  
Client Project ID: 008-2067  
Date Collected: 12/9/08 1115  
Date Received: 12/10/08

Lab Work Order: 08-9411  
Lab Sample ID: 08-9411-06  
Sample Matrix: Water

<b>Dissolved Metals</b>	<b>Method: SW6010B</b>			<b>Analyst: MAB</b>
	<b>Result</b>	<b>LQL</b>	<b>DF</b>	<b>Units</b>
Sodium	270	0.40	1	mg/L
<b>Aromatic Volatile Organics</b>	<b>Method: SW8021B</b>			<b>Analyst: VM</b>
	<b>Result</b>	<b>LQL</b>	<b>DF</b>	<b>Units</b>
Benzene	U	1.0	1	µg/L
Ethylbenzene	U	2.0	1	µg/L
m,p-Xylene	U	2.0	1	µg/L
o-Xylene	U	2.0	1	µg/L
Toluene	U	2.0	1	µg/L
<b>Specific Conductance @ 25°C</b>	<b>Method: SM2510 B</b>			<b>Analyst: CJ</b>
	<b>Result</b>	<b>LQL</b>	<b>DF</b>	<b>Units</b>
Specific Conductance	1020	1.00	1	µmhos/cm
<b>RSKSOP-175M Headspace</b>	<b>Method: RSKSOP175M</b>			<b>Analyst: VM</b>
	<b>Result</b>	<b>LQL</b>	<b>DF</b>	<b>Units</b>
Methane	1.2	0.016	20	mg/L
<b>E150.1 pH</b>	<b>Method: E150.1</b>			<b>Analyst: CJ</b>
	<b>Result</b>	<b>LQL</b>	<b>DF</b>	<b>Units</b>
pH	8.07	1.00	1	pH Units
<b>Total Dissolved Solids (TDS)</b>	<b>Method: SM 2540C</b>			<b>Analyst: JD</b>
	<b>Result</b>	<b>LQL</b>	<b>DF</b>	<b>Units</b>
Total Dissolved Solids	694	10.0	1	mg/L

**Qualifiers:** B - Analyte detected in the associated Method Blank, value not subtracted from result  
E - Extrapolated value. Value exceeds calibration range  
H - Sample analysis exceeded analytical holding time  
J - Indicates an estimated value when the compound is detected, but is below the LQL  
U - Compound analyzed for but not detected  
X - See case narrative  
\* - Value exceeded the Maximum Contamination Level (MCL), TCLP limit, or if compound is undetected, LQL exceeds MCL.

**Definitions:** NA - Not Applicable

Print Date: 12/22/2008

# Evergreen Analytical, Inc.

4036 Youngfield Street, Wheat Ridge, Colorado 80033-3862  
(303) 425-6021

Client Sample ID: MW8  
Client Project ID: 008-2067  
Date Collected: 12/9/08  
Date Received: 12/10/08

Lab Work Order: 08-9411  
Lab Sample ID: 08-9411-01A  
Sample Matrix: Water

## AROMATIC VOLATILE ORGANICS

Method: SW8021B

Prep Method: SW5030B

Date Prepared: 12/12/08

Lab File ID: TVB41212\003R

Dilution Factor: 1

Date Analyzed: 12/12/08

Method Blank: MB4121208

Analytes	CAS Number	Result	LQL	Units
Benzene	71-43-2	U	1.0	µg/L
Toluene	108-88-3	U	2.0	µg/L
Ethylbenzene	100-41-4	U	2.0	µg/L
m,p-Xylene	1330-20-7	U	2.0	µg/L
o-Xylene	95-47-6	U	2.0	µg/L
Surr: 1,2,4-Trichlorobenzene (S)	120-82-1	99	QC Limits: 60-140	%REC

VM

Analyst

47

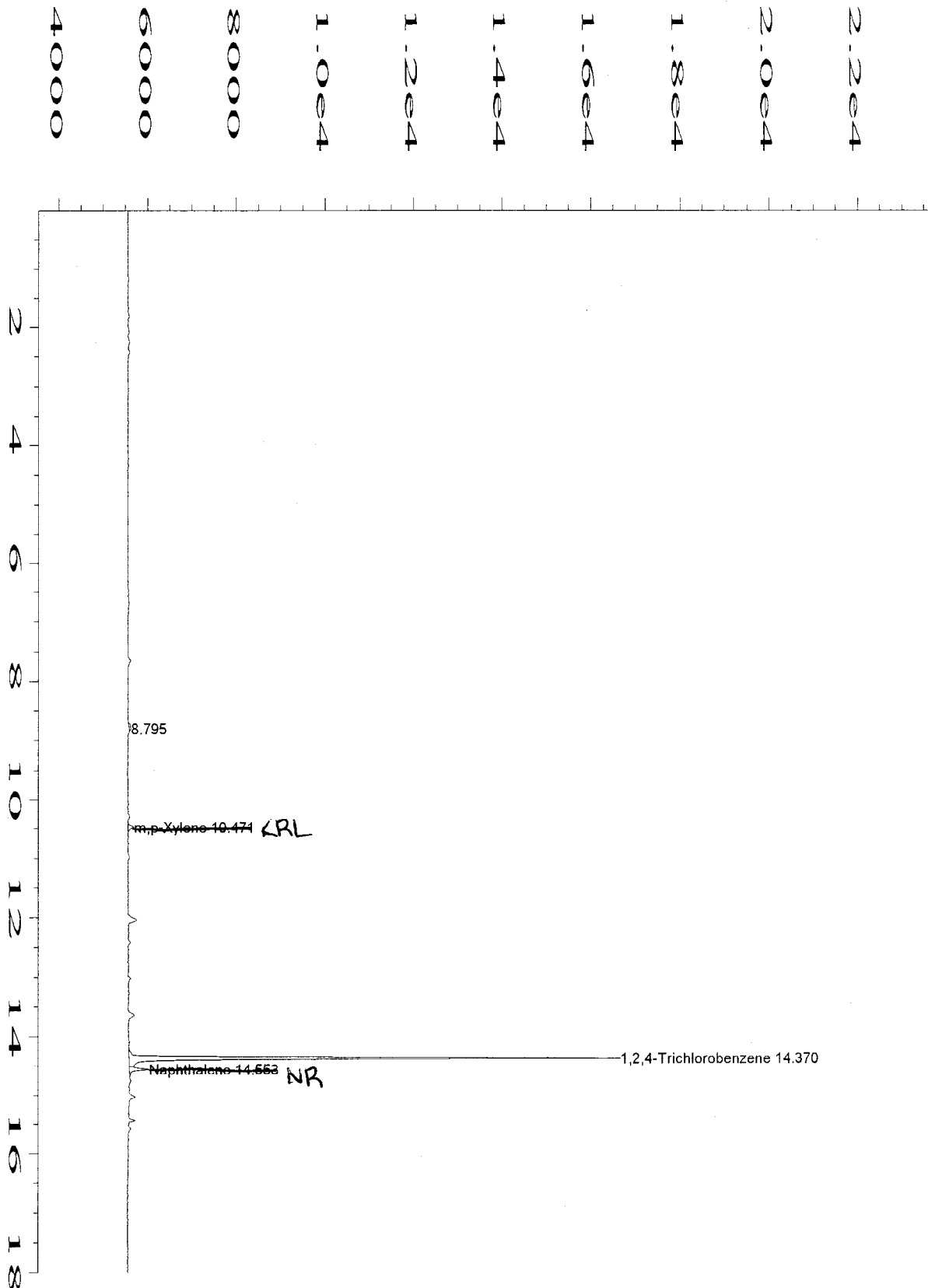
Approved

Notes: Total Xylenes consist of three isomers, two of which co-elute. The Xylene RI is for a single peak. Confirmation analysis was not performed.

**Qualifiers:** B - Analyte detected in the associated Method Blank, value not subtracted from result  
E - Extrapolated value. Value exceeds calibration range  
H - Sample analysis exceeded analytical holding time  
J - Indicates an estimated value when the compound is detected, but is below the LQL  
S - Spike Recovery outside accepted limits  
U - Compound analyzed for but not detected  
X - See case narrative  
\* - Value exceeded the Maximum Contamination Level (MCL), TCLP limit, or if compound is undetected, LQL exceeds MCL.

**Definitions:** LQL - Lower Quantitation Limit  
Surr - Surrogate

Print Date: 12/15/08



Data File Name	: C:\HPCHEM\1\DATA\TVB41212\003R0101.D	Page Number	: 1
Operator	: Virginia Meyer	Vial Number	: 3
Instrument	: TVHBTEX4	Injection Number	: 1
Sample Name	: 08-9411-01A	Sequence Line	: 1
Run Time Bar Code:		Instrument Method:	TS40717M.MTH
Acquired on	: 12 Dec 08 01:25 PM	Analysis Method	: BS41205.MTH
Report Created on:	12 Dec 08 01:44 PM	Sample Amount	: 0
Last Recalib on	: 08 DEC 08 07:34 AM	ISTD Amount	:
Multiplier	: 1		
Sample Info	: SAMP		
	DF=1		

VM 12 15.08

**Evergreen Analytical, Inc.**  
 4036 Youngfield Street, Wheat Ridge, Colorado 80033-3862  
 (303) 425-6021

**Client Sample ID:** MW11  
**Client Project ID:** 008-2067  
**Date Collected:** 12/9/08  
**Date Received:** 12/10/08

**Lab Work Order** 08-9411  
**Lab Sample ID:** 08-9411-02A  
**Sample Matrix:** Water

**AROMATIC VOLATILE ORGANICS**

**Method:** SW8021B

**Prep Method:** SW5030B

**Date Prepared:** 12/12/08

**Lab File ID:** TVB41212\004R

**Dilution Factor:** 1

**Date Analyzed:** 12/12/08

**Method Blank:** MB4121208

Analytes	CAS Number	Result	LQL	Units
Benzene	71-43-2	U	1.0	µg/L
Toluene	108-88-3	U	2.0	µg/L
Ethylbenzene	100-41-4	U	2.0	µg/L
m,p-Xylene	1330-20-7	U	2.0	µg/L
o-Xylene	95-47-6	U	2.0	µg/L
Surr: 1,2,4-Trichlorobenzene (S)	120-82-1	94	<b>QC Limits:</b> 60-140	%REC

VM

\_\_\_\_\_  
 Analyst

27

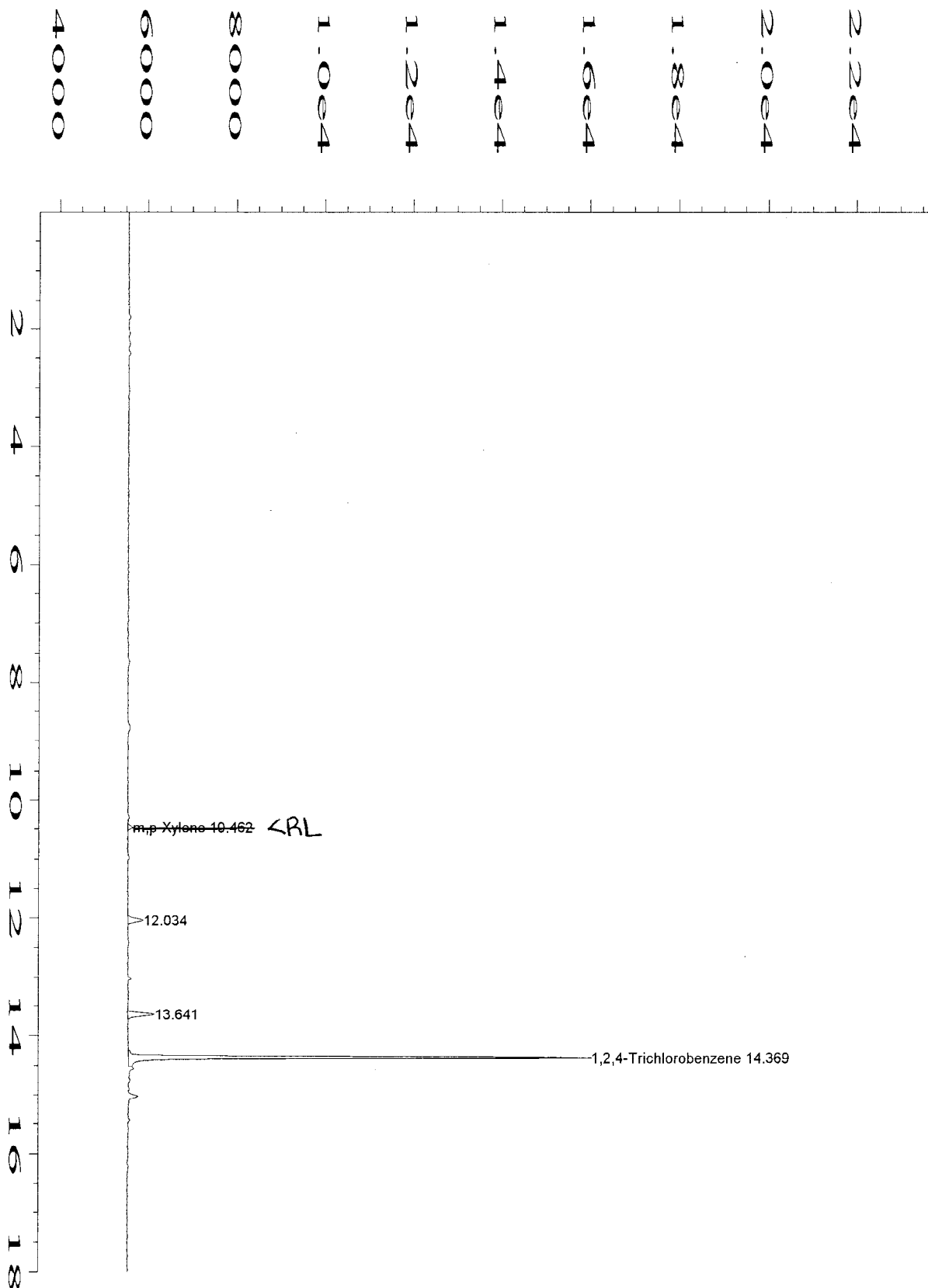
\_\_\_\_\_  
 Approved

**Notes:** Total Xylenes consist of three isomers, two of which co-elute. The Xylene RL is for a single peak. Confirmation analysis was not performed.

**Qualifiers:** B - Analyte detected in the associated Method Blank, value not subtracted from result  
 E - Extrapolated value. Value exceeds calibration range  
 H - Sample analysis exceeded analytical holding time  
 J - Indicates an estimated value when the compound is detected, but is below the LQL  
 S - Spike Recovery outside accepted limits  
 U - Compound analyzed for but not detected  
 X - See case narrative  
 \* - Value exceeded the Maximum Contamination Level (MCL), TCLP limit, or if compound is undetected, LQL exceeds MCL.

**Definitions:** LQL - Lower Quantitation Limit  
 Surr - Surrogate

Print Date: 12/15/08



Data File Name	: C:\HPCHEM\1\DATA\TVB41212\004R0101.D	Page Number	: 1
Operator	: Virginia Meyer	Vial Number	: 4
Instrument	: TVHBTEX4	Injection Number	: 1
Sample Name	: 08-9411-02A	Sequence Line	: 1
Run Time Bar Code:		Instrument Method:	TS40717M.MTH
Acquired on	: 12 Dec 08 02:00 PM	Analysis Method	: BS41205.MTH
Report Created on:	12 Dec 08 02:18 PM	Sample Amount	: 0
Last Recalib on	: 08 DEC 08 07:34 AM	ISTD Amount	:
Multiplier	: 1		
Sample Info	: SAMP		
	DF=1		

VM 12.15.08

# Evergreen Analytical, Inc.

4036 Youngfield Street, Wheat Ridge, Colorado 80033-3862  
(303) 425-6021

Client Sample ID: MW9  
Client Project ID: 008-2067  
Date Collected: 12/9/08  
Date Received: 12/10/08

Lab Work Order: 08-9411  
Lab Sample ID: 08-9411-03A  
Sample Matrix: Water

## AROMATIC VOLATILE ORGANICS

Method: SW8021B

Prep Method: SW5030B

Date Prepared: 12/12/08

Lab File ID: TVB41212\005R

Dilution Factor: 1

Date Analyzed: 12/12/08

Method Blank: MB4121208

Analytes	CAS Number	Result	LQL	Units
Benzene	71-43-2	1.1	1.0	µg/L
Toluene	108-88-3	U	2.0	µg/L
Ethylbenzene	100-41-4	U	2.0	µg/L
m,p-Xylene	1330-20-7	U	2.0	µg/L
o-Xylene	95-47-6	U	2.0	µg/L
Surr: 1,2,4-Trichlorobenzene (S)	120-82-1	101	QC Limits: 60-140	%REC

VM

Analyst

87

Approved

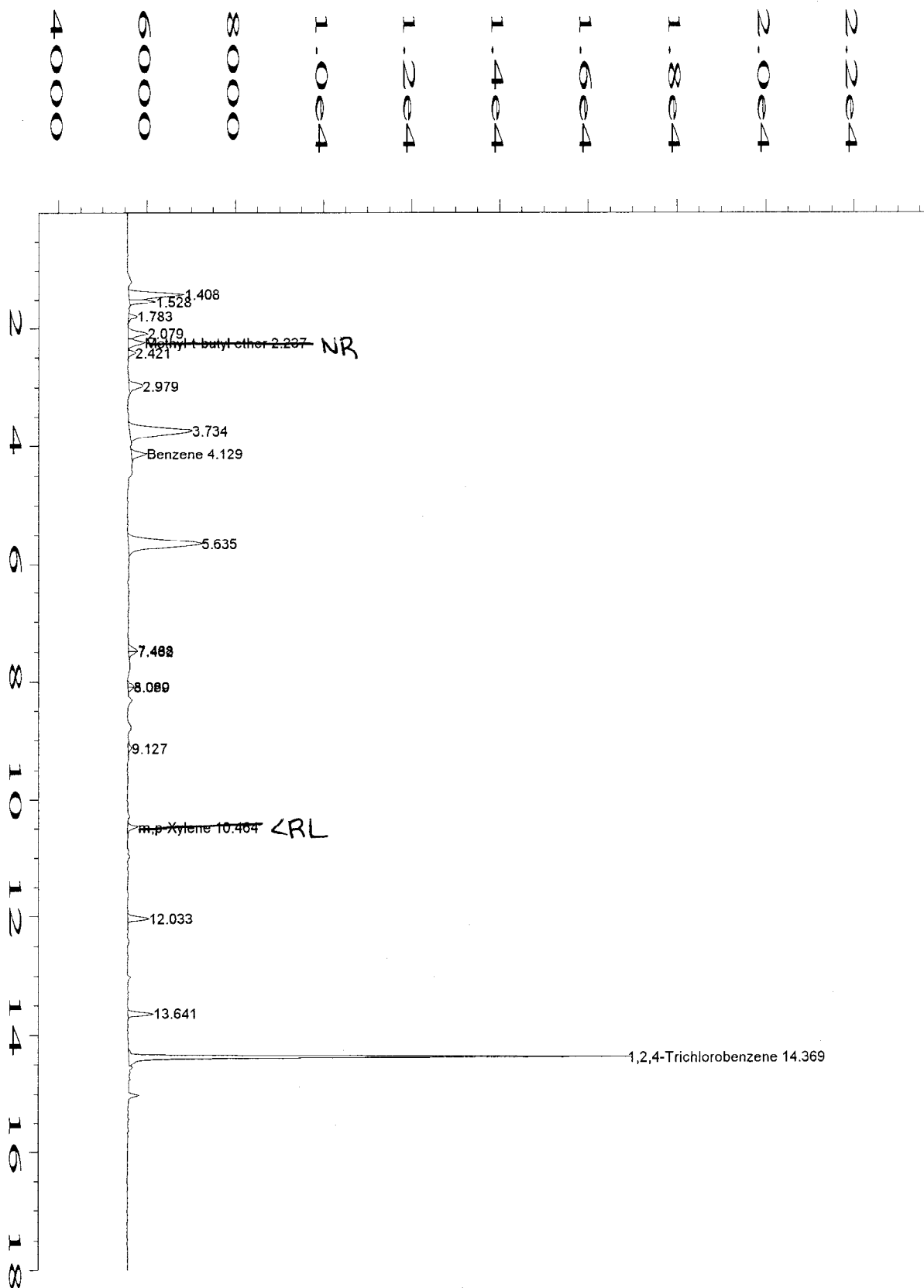
Notes: Total Xylenes consist of three isomers, two of which co-elute. The Xylene RL is for a single peak. Confirmation analysis was not performed

**Qualifiers:** B - Analyte detected in the associated Method Blank, value not subtracted from result  
E - Extrapolated value. Value exceeds calibration range  
H - Sample analysis exceeded analytical holding time  
J - Indicates an estimated value when the compound is detected, but is below the LQL  
S - Spike Recovery outside accepted limits  
U - Compound analyzed for but not detected  
X - See case narrative  
\* - Value exceeded the Maximum Contamination Level (MCL), TCLP limit, or if compound is undetected, LQL exceeds MCL.

**Definitions:** LQL - Lower Quantitation Limit  
Surr - Surrogate

Print Date: 12/15/08





Data File Name	: C:\HPCHEM\1\DATA\TVB41212\005R0101.D	Page Number	: 1
Operator	: Virginia Meyer	Vial Number	: 5
Instrument	: TVHBTEX4	Injection Number	: 1
Sample Name	: 08-9411-03A	Sequence Line	: 1
Run Time Bar Code:		Instrument Method:	TS40717M.MTH
Acquired on	: 12 Dec 08 02:35 PM	Analysis Method	: BS41205.MTH
Report Created on:	12 Dec 08 02:53 PM	Sample Amount	: 0
Last Recalib on	: 08 DEC 08 07:34 AM	ISTD Amount	:
Multiplier	: 1		
Sample Info	: SAMP		
DF=1			

VM 12-15-08

# Evergreen Analytical, Inc.

4036 Youngfield Street, Wheat Ridge, Colorado 80033-3862  
(303) 425-6021

Client Sample ID: MW14  
Client Project ID: 008-2067  
Date Collected: 12/9/08  
Date Received: 12/10/08

Lab Work Order: 08-9411  
Lab Sample ID: 08-9411-04A  
Sample Matrix: Water

## AROMATIC VOLATILE ORGANICS

Method: SW8021B

Prep Method: SW5030B

Date Prepared: 12/11/08

Lab File ID: TVB41211\008R

Dilution Factor: 1

Date Analyzed: 12/11/08

Method Blank: AB4121108

Analytes	CAS Number	Result	LQL	Units
Benzene	71-43-2	U	1.0	µg/L
Toluene	108-88-3	U	2.0	µg/L
Ethylbenzene	100-41-4	U	2.0	µg/L
m,p-Xylene	1330-20-7	U	2.0	µg/L
o-Xylene	95-47-6	U	2.0	µg/L
Surr: 1,2,4-Trichlorobenzene (S)	120-82-1	92	QC Limits: 60-140	%REC

VM

Analyst

27

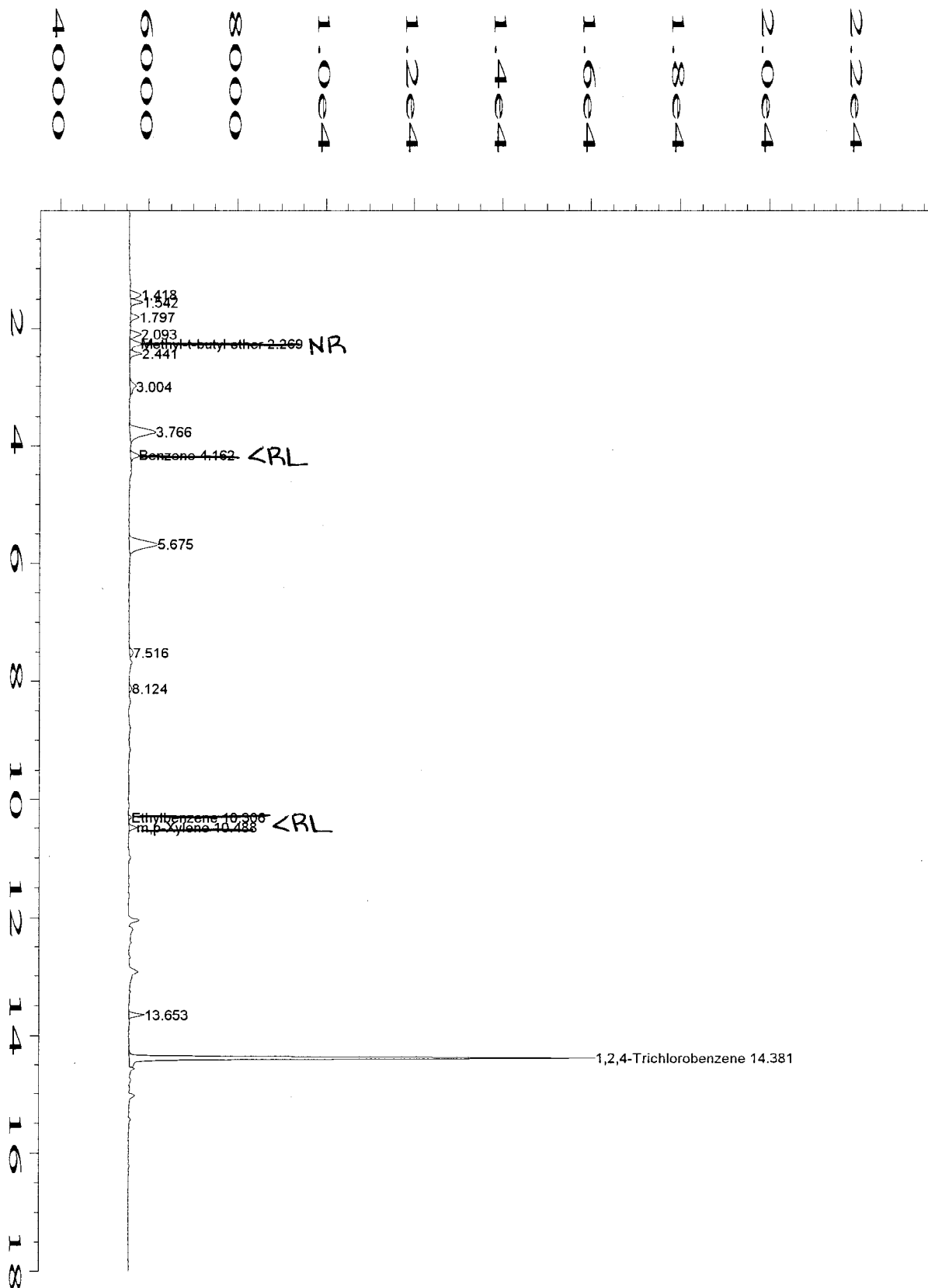
Approved

Notes: Total Xylenes consist of three isomers, two of which co-elute. The Xylene RL is for a single peak. Confirmation analysis was not performed.

**Qualifiers:** B - Analyte detected in the associated Method Blank, value not subtracted from result  
E - Extrapolated value. Value exceeds calibration range  
H - Sample analysis exceeded analytical holding time  
J - Indicates an estimated value when the compound is detected, but is below the LQL  
S - Spike Recovery outside accepted limits  
U - Compound analyzed for but not detected  
X - See case narrative  
\* - Value exceeded the Maximum Contamination Level (MCL), TCLP limit, or if compound is undetected, LQL exceeds MCL.

**Definitions:** LQL - Lower Quantitation Limit  
Surr - Surrogate

Print Date: 12/12/08



Data File Name : C:\HPCHEM\1\DATA\TVB41211\008R0101.D  
 Operator : Virginia Meyer Page Number : 1  
 Instrument : TVHBTEX4 Vial Number : 8  
 Sample Name : 08-9411-04A Injection Number : 1  
 Run Time Bar Code: Sequence Line : 1  
 Acquired on : 11 Dec 08 11:50 AM Instrument Method: TS40717M.MTH  
 Report Created on: 11 Dec 08 12:08 PM Analysis Method : BS41205.MTH  
 Last Recalib on : 08 DEC 08 07:34 AM Sample Amount : 0  
 Multiplier : 1 ISTD Amount :  
 Sample Info : SAMP VM 12-11-08  
 DF=1

# Evergreen Analytical, Inc.

4036 Youngfield Street, Wheat Ridge, Colorado 80033-3862  
(303) 425-6021

Client Sample ID: MW12  
Client Project ID: 008-2067  
Date Collected: 12/9/08  
Date Received: 12/10/08

Lab Work Order 08-9411  
Lab Sample ID: 08-9411-05A  
Sample Matrix: Water

## AROMATIC VOLATILE ORGANICS

Method: SW8021B

Prep Method: SW5030B

Date Prepared: 12/11/08

Lab File ID: TVB41211\013R

Dilution Factor: 1

Date Analyzed: 12/11/08

Method Blank: AB4121108

Analytes	CAS Number	Result	LQL	Units
Benzene	71-43-2	U	1.0	µg/L
Toluene	108-88-3	U	2.0	µg/L
Ethylbenzene	100-41-4	U	2.0	µg/L
m,p-Xylene	1330-20-7	U	2.0	µg/L
o-Xylene	95-47-6	U	2.0	µg/L
Surr: 1,2,4-Trichlorobenzene (S)	120-82-1	90	QC Limits: 60-140	%REC

VM

Analyst

27

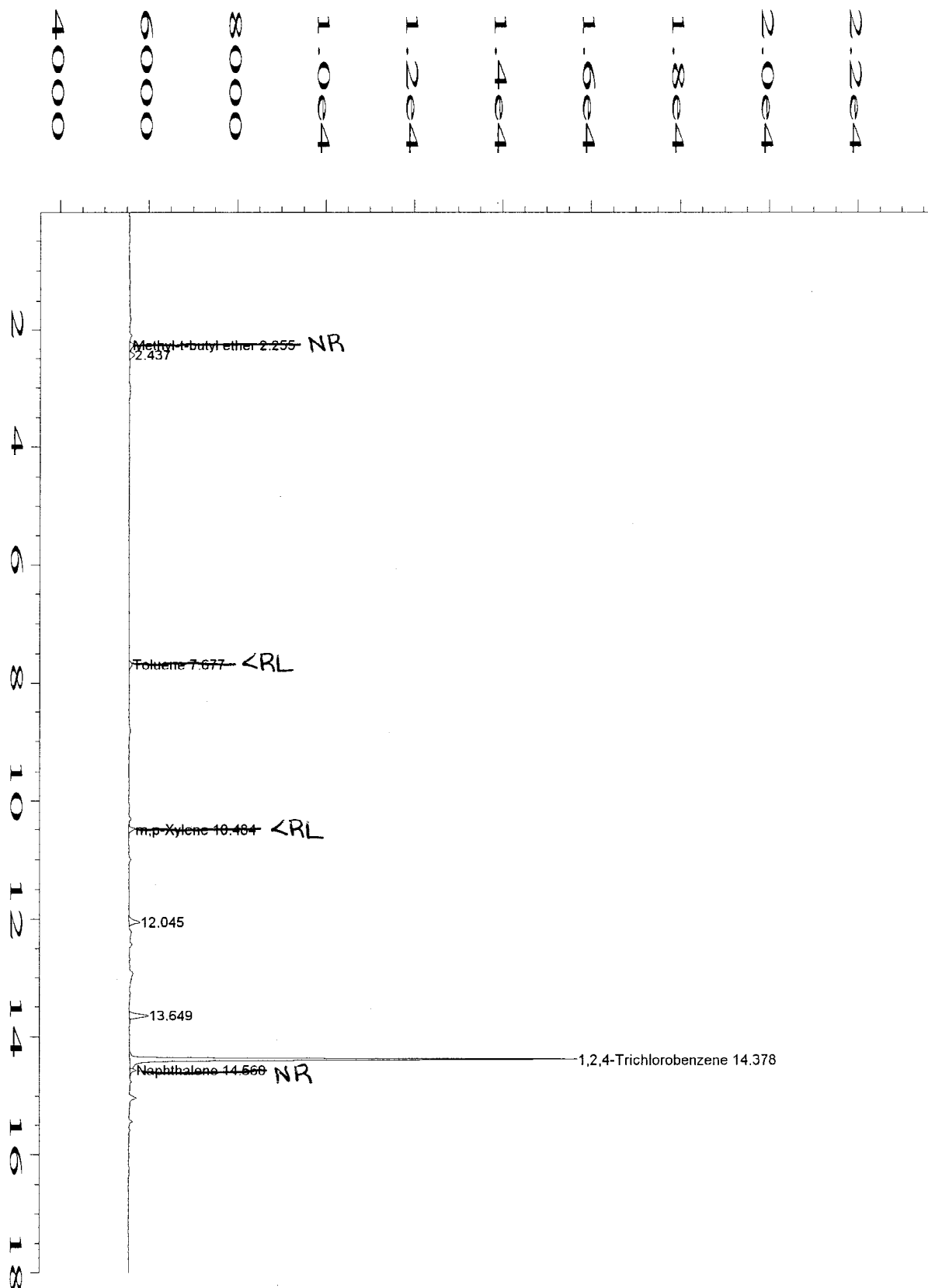
Approved

Notes: Total Xylenes consist of three isomers, two of which co-elute. The Xylene RI is for a single peak. Confirmation analysis was not performed.

**Qualifiers:** B - Analyte detected in the associated Method Blank, value not subtracted from result  
E - Extrapolated value. Value exceeds calibration range  
H - Sample analysis exceeded analytical holding time  
J - Indicates an estimated value when the compound is detected, but is below the LQL  
S - Spike Recovery outside accepted limits  
U - Compound analyzed for but not detected  
X - See case narrative  
\* - Value exceeded the Maximum Contamination Level (MCL), TCLP limit, or if compound is undetected, LQL exceeds MCL.

**Definitions:** LQL - Lower Quantitation Limit  
Surr - Surrogate

Print Date: 12/12/08



Data File Name : C:\HPCHEM\1\DATA\TVB41211\013R0101.D

Operator : Virginia Meyer

Page Number : 1

Instrument : TVHBTEX4

Vial Number : 13

Sample Name : 08-9411-05A

Injection Number : 1

Run Time Bar Code:

Sequence Line : 1

Acquired on : 11 Dec 08 02:43 PM

Instrument Method: TS40717M.MTH

Report Created on: 11 Dec 08 03:02 PM

Analysis Method : BS41205.MTH

Last Recalib on : 08 DEC 08 07:34 AM

Sample Amount : 0

Multiplier : 1

ISTD Amount :

Sample Info : SAMP

DF=1

VM 12.12.08

# Evergreen Analytical, Inc.

4036 Youngfield Street, Wheat Ridge, Colorado 80033-3862  
(303) 425-6021

Client Sample ID: MW16  
Client Project ID: 008-2067  
Date Collected: 12/9/08  
Date Received: 12/10/08

Lab Work Order 08-9411  
Lab Sample ID: 08-9411-06A  
Sample Matrix: Water

## AROMATIC VOLATILE ORGANICS

Method: SW8021B

Prep Method: SW5030B

Date Prepared: 12/11/08

Lab File ID: TVB41211\014R

Dilution Factor: 1

Date Analyzed: 12/11/08

Method Blank: AB4121108

Analytes	CAS Number	Result	LQL	Units
Benzene	71-43-2	U	1.0	µg/L
Toluene	108-88-3	U	2.0	µg/L
Ethylbenzene	100-41-4	U	2.0	µg/L
m,p-Xylene	1330-20-7	U	2.0	µg/L
o-Xylene	95-47-6	U	2.0	µg/L
Surr: 1,2,4-Trichlorobenzene (S)	120-82-1	92	QC Limits: 60-140	%REC

VM  
Analyst

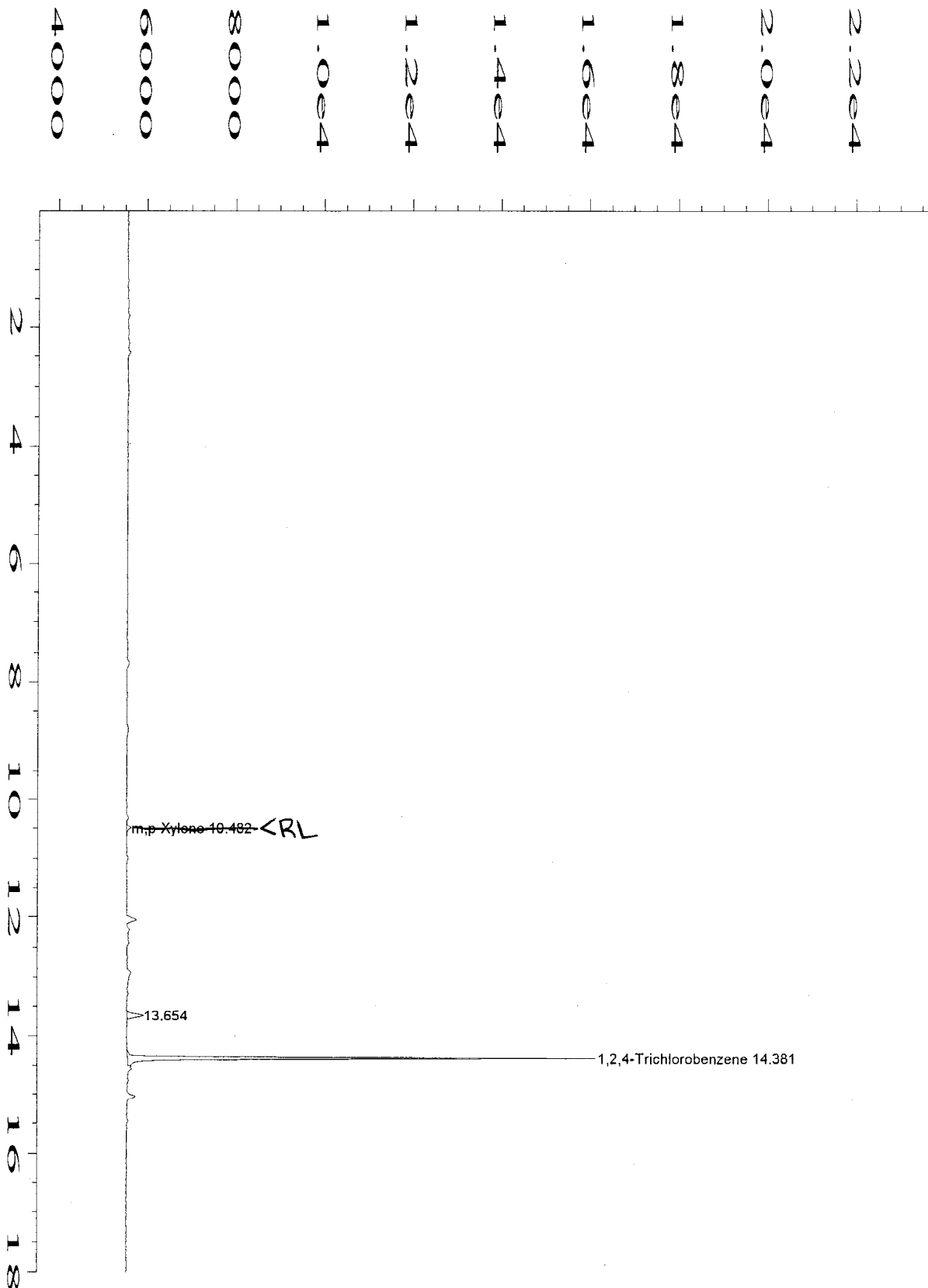
Approved

Notes: Total Xylenes consist of three isomers, two of which co-elute. The Xylene RL is for a single peak. Confirmation analysis was not performed.

**Qualifiers:** B - Analyte detected in the associated Method Blank, value not subtracted from result  
E - Extrapolated value. Value exceeds calibration range  
H - Sample analysis exceeded analytical holding time  
J - Indicates an estimated value when the compound is detected, but is below the LQL  
S - Spike Recovery outside accepted limits  
U - Compound analyzed for but not detected  
X - See case narrative  
\* - Value exceeded the Maximum Contamination Level (MCL), TCLP limit, or if compound is undetected, LQL exceeds MCL.

**Definitions:** LQL - Lower Quantitation Limit  
Surr - Surrogate

Print Date: 12/12/08



Data File Name	: C:\HPCHEM\1\DATA\TVB41211\014R0101.D	Page Number	: 1
Operator	: Virginia Meyer	Vial Number	: 14
Instrument	: TVHBTEX4	Injection Number	: 1
Sample Name	: 08-9411-06A	Sequence Line	: 1
Run Time Bar Code:		Instrument Method:	TS40717M.MTH
Acquired on	: 11 Dec 08 03:18 PM	Analysis Method	: BS41205.MTH
Report Created on:	11 Dec 08 03:36 PM	Sample Amount	: 0
Last Recalib on	: 08 DEC 08 07:34 AM	ISTD Amount	:
Multiplier	: 1		
Sample Info	: SAMP		
	DF=1		

VM 12.12.08

## Evergreen Analytical, Inc.

4036 Youngfield Street, Wheat Ridge, Colorado 80033-3862  
(303) 425-6021

Client Project ID 008-2067

Lab Order: 08-9411  
Units: mg/L

## RSKSOP-175M Headspace

Method: RSKSOP175M

Methane

Prep Method: RSKSOP175M

Lab ID	Client ID	Matrix	Date Received	Collection Date	Date Prepared	Date Analyzed	Results	LQL	DF
08-9411-01B	MW8	Water	12/10/08	12/9/08	12/11/08	12/11/08	0.11	0.00080	1
08-9411-02B	MW11	Water	12/10/08	12/9/08	12/11/08	12/11/08	0.016	0.00080	1
08-9411-03B	MW9	Water	12/10/08	12/9/08	12/11/08	12/11/08	8.6	0.040	50
08-9411-04B	MW14	Water	12/10/08	12/9/08	12/11/08	12/11/08	4.7	0.016	20
08-9411-05B	MW12	Water	12/10/08	12/9/08	12/11/08	12/11/08	0.13	0.00080	1
08-9411-06B	MW16	Water	12/10/08	12/9/08	12/11/08	12/11/08	1.2	0.016	20

Comments:

VM  
\_\_\_\_\_  
Analyst

\_\_\_\_\_  
Approved

## Qualifiers:

J - Indicates an estimated value when the compound is detected, but is below the LQL.

H - Sample analysis exceeded analytical holding time

U - Compound analyzed for but not detected

X - See case narrative

\* - Value exceeds Maximum Contamination Level(MCL), TCLP limit, or if compound is undetected, LQL exceeds MCL.

## Definitions:

DF - Dilution Factor

LQL - Lower Quantitation Limit

Print Date: 12/11/08



# Evergreen Analytical, Inc.

4036 Youngfield Street, Wheat Ridge, Colorado 80033-3862  
(303) 425-6021

Client Sample ID: MW8  
Client Project ID: 008-2067  
Date Collected: 12/9/08 1340  
Date Received: 12/10/08

Lab Work Order: 08-9411  
Lab Sample ID: 08-9411-01  
Sample Matrix: Water

## SPECIFIC CONDUCTANCE @ 25°C

Method: SM2510 B

Prep Method:

Date Prepared: 12/11/08  
Date Analyzed: 12/11/08

Lab File ID: 10

Dilution Factor: 1  
Lab Fraction ID: 08-9411-01C

Analytes	CAS Number	Result	LQL	Units
Specific Conductance		1140	1.00	µmhos/cm

## E150.1 PH

Method: E150.1

Prep Method:

Date Prepared: 12/10/08  
Date Analyzed: 12/10/08 1000

Dilution Factor: 1  
Lab Fraction ID: 08-9411-01C

Analytes	CAS Number	Result	LQL	Units
pH		7.36	1.00	pH Units

## TOTAL DISSOLVED SOLIDS (TDS)

Method: SM 2540C

Prep Method:

Date Prepared: 12/15/08  
Date Analyzed: 12/15/08

Lab File ID: 2  
Method Blank: MBLK 121508

Dilution Factor: 1  
Lab Fraction ID: 08-9411-01C

Analytes	CAS Number	Result	LQL	Units
Total Dissolved Solids		799	10.0	mg/L



Analyst



Approved

**Qualifiers:** B - Analyte detected in the associated Method Blank, value not subtracted from result  
E - Extrapolated value. Value exceeds calibration range  
H - Sample analysis exceeded analytical holding time  
J - Indicates an estimated value when the compound is detected, but is below the LQL  
S - Spike Recovery outside accepted limits  
U - Compound analyzed for but not detected  
X - See case narrative  
\* - Value exceeded the Maximum Contamination Level (MCL), TCLP limit, or if compound is undetected, LQL exceeds MCL.

**Definitions:** NA - Not Applicable  
LQL - Lower Quantitation Limit  
Surr - Surrogate

Print Date: 12/19/2008

# Evergreen Analytical, Inc.

4036 Youngfield Street, Wheat Ridge, Colorado 80033-3862  
(303) 425-6021

Client Sample ID: MW11  
Client Project ID: 008-2067  
Date Collected: 12/9/08 1040  
Date Received: 12/10/08

Lab Work Order: 08-9411  
Lab Sample ID: 08-9411-02  
Sample Matrix: Water

## SPECIFIC CONDUCTANCE @ 25°C

Method: SM2510 B

Prep Method:

Date Prepared: 12/11/08  
Date Analyzed: 12/11/08

Lab File ID: 11

Dilution Factor: 1  
Lab Fraction ID: 08-9411-02C

Analytes	CAS Number	Result	LQL	Units
Specific Conductance		635	1.00	µmhos/cm

## E150.1 PH

Method: E150.1

Prep Method:

Date Prepared: 12/10/08  
Date Analyzed: 12/10/08 1000

Dilution Factor: 1  
Lab Fraction ID: 08-9411-02C

Analytes	CAS Number	Result	LQL	Units
pH		7.28	1.00	pH Units

## TOTAL DISSOLVED SOLIDS (TDS)

Method: SM 2540C

Prep Method:


Date Prepared: 12/15/08  
Date Analyzed: 12/15/08

Lab File ID: 3  
Method Blank: MBLK 121508

Dilution Factor: 1  
Lab Fraction ID: 08-9411-02C

Analytes	CAS Number	Result	LQL	Units
Total Dissolved Solids		402	10.0	mg/L

  
Analyst

  
Approved

**Qualifiers:** B - Analyte detected in the associated Method Blank, value not subtracted from result  
E - Extrapolated value. Value exceeds calibration range  
H - Sample analysis exceeded analytical holding time  
J - Indicates an estimated value when the compound is detected, but is below the LQL  
S - Spike Recovery outside accepted limits  
U - Compound analyzed for but not detected  
X - See case narrative  
\* - Value exceeded the Maximum Contamination Level (MCL), TCLP limit, or if compound is undetected, LQL exceeds MCL.

**Definitions:** NA - Not Applicable  
LQL - Lower Quantitation Limit  
Surr - Surrogate

Print Date: 12/19/2008

# Evergreen Analytical, Inc.

4036 Youngfield Street, Wheat Ridge, Colorado 80033-3862  
(303) 425-6021

Client Sample ID: MW9  
Client Project ID: 008-2067  
Date Collected: 12/9/08 1055  
Date Received: 12/10/08

Lab Work Order 08-9411  
Lab Sample ID: 08-9411-03  
Sample Matrix: Water

## SPECIFIC CONDUCTANCE @ 25°C

Method: SM2510 B

Prep Method:

Date Prepared: 12/11/08

Lab File ID: 12

Dilution Factor: 1

Date Analyzed: 12/11/08

Lab Fraction ID: 08-9411-03C

Analytes	CAS Number	Result	LQL	Units
Specific Conductance		738	1.00	µmhos/cm

## E150.1 PH

Method: E150.1

Prep Method:

Date Prepared: 12/10/08

Dilution Factor: 1

Date Analyzed: 12/10/08 1000

Lab Fraction ID: 08-9411-03C

Analytes	CAS Number	Result	LQL	Units
pH		7.30	1.00	pH Units

## TOTAL DISSOLVED SOLIDS (TDS)

Method: SM 2540C

Prep Method:

Date Prepared: 12/15/08

Lab File ID: 4

Dilution Factor: 1

Date Analyzed: 12/15/08

Method Blank: MBLK 121508

Lab Fraction ID: 08-9411-03C

Analytes	CAS Number	Result	LQL	Units
Total Dissolved Solids		501	10.0	mg/L

  
Analyst

  
Approved

**Qualifiers:** B - Analyte detected in the associated Method Blank, value not subtracted from result  
E - Extrapolated value. Value exceeds calibration range  
H - Sample analysis exceeded analytical holding time  
J - Indicates an estimated value when the compound is detected, but is below the LQL  
S - Spike Recovery outside accepted limits  
U - Compound analyzed for but not detected  
X - See case narrative  
\* - Value exceeded the Maximum Contamination Level (MCL), TCLP limit, or if compound is undetected, LQL exceeds MCL.

**Definitions:** NA - Not Applicable  
LQL - Lower Quantitation Limit  
Surr - Surrogate

Print Date: 12/19/2008

# Evergreen Analytical, Inc.

4036 Youngfield Street, Wheat Ridge, Colorado 80033-3862  
(303) 425-6021

Client Sample ID: MW14  
Client Project ID: 008-2067  
Date Collected: 12/9/08 1125  
Date Received: 12/10/08

Lab Work Order: 08-9411  
Lab Sample ID: 08-9411-04  
Sample Matrix: Water

## SPECIFIC CONDUCTANCE @ 25°C

Method: SM2510 B

Prep Method:

Date Prepared: 12/11/08

Lab File ID: 13

Dilution Factor: 1

Date Analyzed: 12/11/08

Lab Fraction ID: 08-9411-04C

Analytes	CAS Number	Result	LQL	Units
Specific Conductance		773	1.00	µmhos/cm

## E150.1 PH

Method: E150.1

Prep Method:

Date Prepared: 12/10/08

Dilution Factor: 1

Date Analyzed: 12/10/08 1000

Lab Fraction ID: 08-9411-04C

Analytes	CAS Number	Result	LQL	Units
pH		7.28	1.00	pH Units

## TOTAL DISSOLVED SOLIDS (TDS)

Method: SM 2540C

Prep Method:

Date Prepared: 12/15/08

Lab File ID: 5

Dilution Factor: 1

Date Analyzed: 12/15/08

Method Blank: MBLK 121508

Lab Fraction ID: 08-9411-04C

Analytes	CAS Number	Result	LQL	Units
Total Dissolved Solids		510	10.0	mg/L

Analyst

Approved

**Qualifiers:** B - Analyte detected in the associated Method Blank, value not subtracted from result  
E - Extrapolated value. Value exceeds calibration range  
H - Sample analysis exceeded analytical holding time  
J - Indicates an estimated value when the compound is detected, but is below the LQL  
S - Spike Recovery outside accepted limits  
U - Compound analyzed for but not detected  
X - See case narrative  
\* - Value exceeded the Maximum Contamination Level (MCL), TCLP limit, or if compound is undetected, LQL exceeds MCL.

**Definitions:** NA - Not Applicable  
LQL - Lower Quantitation Limit  
Surr - Surrogate

Print Date: 12/19/2008

# Evergreen Analytical, Inc.

4036 Youngfield Street, Wheat Ridge, Colorado 80033-3862  
(303) 425-6021

Client Sample ID: MW12  
Client Project ID: 008-2067  
Date Collected: 12/9/08 1015  
Date Received: 12/10/08

Lab Work Order: 08-9411  
Lab Sample ID: 08-9411-05  
Sample Matrix: Water

## SPECIFIC CONDUCTANCE @ 25°C

Method: SM2510 B

Prep Method:

Date Prepared: 12/11/08

Lab File ID: 14

Dilution Factor: 1

Date Analyzed: 12/11/08

Lab Fraction ID: 08-9411-05C

Analytes	CAS Number	Result	LQL	Units
Specific Conductance		898	1.00	µmhos/cm

## E150.1 PH

Method: E150.1

Prep Method:

Date Prepared: 12/10/08

Dilution Factor: 1

Date Analyzed: 12/10/08 1000

Lab Fraction ID: 08-9411-05C

Analytes	CAS Number	Result	LQL	Units
pH		7.19	1.00	pH Units

## TOTAL DISSOLVED SOLIDS (TDS)

Method: SM 2540C

Prep Method:

Date Prepared: 12/15/08

Lab File ID: 6

Dilution Factor: 1

Date Analyzed: 12/15/08

Method Blank: MBLK 121508

Lab Fraction ID: 08-9411-05C

Analytes	CAS Number	Result	LQL	Units
Total Dissolved Solids		606	10.0	mg/L

  
\_\_\_\_\_  
Analyst

  
\_\_\_\_\_  
Approved

**Qualifiers:** B - Analyte detected in the associated Method Blank, value not subtracted from result  
E - Extrapolated value. Value exceeds calibration range  
H - Sample analysis exceeded analytical holding time  
J - Indicates an estimated value when the compound is detected, but is below the LQL  
S - Spike Recovery outside accepted limits  
U - Compound analyzed for but not detected  
X - See case narrative  
\* - Value exceeded the Maximum Contamination Level (MCL), TCLP limit, or if compound is undetected, LQL exceeds MCL.

**Definitions:** NA - Not Applicable  
LQL - Lower Quantitation Limit  
Surr - Surrogate

Print Date: 12/19/2008

# Evergreen Analytical, Inc.

4036 Youngfield Street, Wheat Ridge, Colorado 80033-3862  
(303) 425-6021

Client Sample ID: MW16  
Client Project ID: 008-2067  
Date Collected: 12/9/08 1115  
Date Received: 12/10/08

Lab Work Order 08-9411  
Lab Sample ID: 08-9411-06  
Sample Matrix: Water

## SPECIFIC CONDUCTANCE @ 25°C

Method: SM2510 B

Prep Method:

Date Prepared: 12/11/08  
Date Analyzed: 12/11/08

Lab File ID: 15

Dilution Factor: 1  
Lab Fraction ID: 08-9411-06C

Analytes	CAS Number	Result	LQL	Units
Specific Conductance		1020	1.00	µmhos/cm

## E150.1 PH

Method: E150.1

Prep Method:

Date Prepared: 12/10/08  
Date Analyzed: 12/10/08 1000

Dilution Factor: 1  
Lab Fraction ID: 08-9411-06C

Analytes	CAS Number	Result	LQL	Units
pH		8.07	1.00	pH Units

## TOTAL DISSOLVED SOLIDS (TDS)

Method: SM 2540C

Prep Method:

Date Prepared: 12/15/08  
Date Analyzed: 12/15/08

Lab File ID: 7  
Method Blank: MBLK 121508

Dilution Factor: 1  
Lab Fraction ID: 08-9411-06C

Analytes	CAS Number	Result	LQL	Units
Total Dissolved Solids		694	10.0	mg/L

Analyst

Approved

**Qualifiers:** B - Analyte detected in the associated Method Blank, value not subtracted from result  
E - Extrapolated value. Value exceeds calibration range  
H - Sample analysis exceeded analytical holding time  
J - Indicates an estimated value when the compound is detected, but is below the LQL  
S - Spike Recovery outside accepted limits  
U - Compound analyzed for but not detected  
X - See case narrative  
\* - Value exceeded the Maximum Contamination Level (MCL), TCLP limit, or if compound is undetected, LQL exceeds MCL.

**Definitions:** NA - Not Applicable  
LQL - Lower Quantitation Limit  
Surr - Surrogate

Print Date: 12/19/2008

# Evergreen Analytical, Inc.

4036 Youngfield Street, Wheat Ridge, Colorado 80033-3862  
(303) 425-6021

Client Project ID 008-2067  
Date Received: 12/10/08

Lab Order: 08-9411  
Date Prepared: 12/10/08  
Units: mg/L

## Dissolved Metals Sodium

Method: SW6010B

Prep Method: E200.7/SW3010A

Lab ID	Client ID	Matrix	Date Collected	Date Analyzed	Results	LQL	DF
08-9411-01D	MW8	Water	12/9/08	12/11/08	180	0.40	1
08-9411-02D	MW11	Water	12/9/08	12/11/08	39	0.40	1
08-9411-03D	MW9	Water	12/9/08	12/11/08	56	0.40	1
08-9411-04D	MW14	Water	12/9/08	12/11/08	46	0.40	1
08-9411-05D	MW12	Water	12/9/08	12/11/08	89	0.40	1
08-9411-06D	MW16	Water	12/9/08	12/11/08	270	0.40	1



Analyst



Approved

**Qualifiers:** B - Analyte detected in the associated Method Blank, value not subtracted from result  
E - Extrapolated value. Value exceeds calibration range  
H - Sample analysis exceeded analytical holding time  
J - Indicates an estimated value when the compound is detected, but is below the LQL  
S - Spike Recovery outside accepted limits  
U - Compound analyzed for but not detected  
X - See case narrative  
\* - Value exceeded the Maximum Contamination Level (MCL), TCLP limit, or if compound is undetected, LQL exceeds MCL.

**Definitions:** DF - Dilution Factor  
PF - Prep Factor  
LQL - Lower Quantitation Limit

Print Date: 12/19/08

## QUALITY ASSURANCE REPORTS

METHOD BLANKS (MB)

LABORATORY CONTROL SPIKES (LCS)

MATRIX SPIKES (MS/MSD)\*

DUPLICATES (DUP)\*

\* For Metals or Wet Chemistry analyses: only included if requested or if performed on this client's samples.



Work Order: 08-9411  
Client Project ID: 008-2067

## ANALYTICAL QC SUMMARY REPORT

BatchID: R44037

Sample ID: MB4121208	SampType: MBLK	TestCode: 8021_W	Run ID: TVHBTEX4_081212A	Prep Date: 12/12/08	Units: µg/L						
	Batch ID: R44037	TestNo: SW8021B	FileID: TVB412121001R	Analysis Date: 12/12/08	SeqNo: 780522						
Analyte	Result	LQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Benzene	U	1.0									
Toluene	U	2.0									
Ethylbenzene	U	2.0									
m,p-Xylene	U	2.0									
o-Xylene	U	2.0									
Surr: 1,2,4-Trichlorobenzene (S)	99.18	0	100	0	99.2	60	140	0	0		

Sample ID: MEB4121208	SampType: MBLK	TestCode: 8021_W	Run ID: TVHBTEX4_081212A	Prep Date: 12/12/08	Units: µg/L						
	Batch ID: R44037	TestNo: SW8021B	FileID: TVB412121027R	Analysis Date: 12/13/08	SeqNo: 780541						
Analyte	Result	LQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Benzene	U	100									
Toluene	U	200									
Ethylbenzene	U	200									
m,p-Xylene	U	200									
o-Xylene	U	200									
Surr: 1,2,4-Trichlorobenzene (S)	9063	0	10000	0	90.6	60	140	0	0		

Sample ID: LCS4121108	SampType: LCS	TestCode: 8021_W	Run ID: TVHBTEX4_081212A	Prep Date: 12/12/08	Units: µg/L						
	Batch ID: R44037	TestNo: SW8021B	FileID: TVB412121002R	Analysis Date: 12/12/08	SeqNo: 780523						
Analyte	Result	LQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Benzene	26.53	1.0	25.5	0	104	70	130	0	0		
Toluene	189.8	2.0	183.6	0	103	70	130	0	0		
Ethylbenzene	36.76	2.0	36.8	0	99.9	70	130	0	0		
m,p-Xylene	145.8	2.0	136.3	0	107	70	130	0	0		
o-Xylene	58.72	2.0	57.2	0	103	70	130	0	0		
Surr: 1,2,4-Trichlorobenzene (S)	106	0	100	0	106	60	140	0	0		

## Qualifiers:

U - Not detected at or above the Reporting Limit  
J - Analyte detected below quantitation limits  
S - Spike Recovery outside acceptance limits  
E - Extrapolated value, value exceeds calibration range.

R - RPD outside acceptance limits  
B - Analyte detected in the associated Method Blank  
H - Prep or analytical holding time exceeded  
X - See case narrative

Work Order: 08-9411  
Client Project ID: 008-2067

## ANALYTICAL QC SUMMARY REPORT

BatchID: R44037

Sample ID: 08-9455-01AMS	SampType: MS	TestCode: 8021_W	Run ID: TVHBTEX4_081212A	Prep Date: 12/12/08	Units: µg/L						
	Batch ID: R44037	TestNo: SW8021B	FileID: TVB412121007R	Analysis Date: 12/12/08	SeqNo: 780528						
Analyte	Result	LQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Benzene	26.64	1.0	25.5	0	104	70	130	0	0		
Toluene	189.3	2.0	183.6	0	103	70	130	0	0		
Ethylbenzene	37.2	2.0	36.8	0	101	62	130	0	0		
m,p-Xylene	146.7	2.0	136.3	0	108	70	134	0	0		
o-Xylene	58.88	2.0	57.2	0	103	63	130	0	0		
Surr: 1,2,4-Trichlorobenzene (S)	110.1	0	100	0	110	60	140	0	0		

Sample ID: 08-9455-01AMSD	SampType: MSD	TestCode: 8021_W	Run ID: TVHBTEX4_081212A	Prep Date: 12/12/08	Units: µg/L						
	Batch ID: R44037	TestNo: SW8021B	FileID: TVB412121008R	Analysis Date: 12/12/08	SeqNo: 780529						
Analyte	Result	LQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Benzene	26.42	1.0	25.5	0	104	70	130	26.64	0.833	30	
Toluene	189.7	2.0	183.6	0	103	70	130	189.3	0.193	30	
Ethylbenzene	36.76	2.0	36.8	0	99.9	62	130	37.2	1.18	30	
m,p-Xylene	146.9	2.0	136.3	0	108	70	134	146.7	0.128	30	
o-Xylene	58.65	2.0	57.2	0	103	63	130	58.88	0.395	30	
Surr: 1,2,4-Trichlorobenzene (S)	114	0	100	0	114	60	140	0	0	0	

## Qualifiers:

U - Not detected at or above the Reporting Limit  
J - Analyte detected below quantitation limits  
S - Spike Recovery outside acceptance limits  
E - Extrapolated value, value exceeds calibration range.

R - RPD outside acceptance limits  
B - Analyte detected in the associated Method Blank  
H - Prep or analytical holding time exceeded  
X - See case narrative

Work Order: 08-9411  
Client Project ID: 008-2067

## ANALYTICAL QC SUMMARY REPORT

BatchID: R43992

Sample ID: <b>AB4121108</b>	SampType: <b>MBLK</b>	TestCode: <b>8021_A</b>	Run ID: <b>TVHBTEX4_081211A</b>	Prep Date: <b>12/11/08</b>	Units: <b>µg/L</b>						
	Batch ID: <b>R43992</b>	TestNo: <b>SW8021B</b>	FileID: <b>TVB41211\004R</b>	Analysis Date: <b>12/11/08</b>	SeqNo: <b>779496</b>						
Analyte	Result	LQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Benzene	0	1.0									
Toluene	0	2.0									
Ethylbenzene	0	2.0									
m,p-Xylene	0	2.0									
o-Xylene	0	2.0									
Surr: 1,2,4-Trichlorobenzene (S)	90.57	0	100	0	90.6	60	135	0	0		

Sample ID: <b>LCS4121108</b>	SampType: <b>LCS</b>	TestCode: <b>8021_W</b>	Run ID: <b>TVHBTEX4_081211A</b>	Prep Date: <b>12/11/08</b>	Units: <b>µg/L</b>						
	Batch ID: <b>R43992</b>	TestNo: <b>SW8021B</b>	FileID: <b>TVB41211\005R</b>	Analysis Date: <b>12/11/08</b>	SeqNo: <b>779497</b>						
Analyte	Result	LQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Benzene	25.64	1.0	25.5	0	101	70	130	0	0		
Toluene	186.7	2.0	183.6	0	102	70	130	0	0		
Ethylbenzene	36.66	2.0	36.8	0	99.6	70	130	0	0		
m,p-Xylene	143.9	2.0	136.3	0	106	70	130	0	0		
o-Xylene	56.88	2.0	57.2	0	99.4	70	130	0	0		
Surr: 1,2,4-Trichlorobenzene (S)	105.6	0	100	0	106	60	140	0	0		

Sample ID: <b>LCSD4121108</b>	SampType: <b>LCSD</b>	TestCode: <b>8021_W</b>	Run ID: <b>TVHBTEX4_081211A</b>	Prep Date: <b>12/11/08</b>	Units: <b>µg/L</b>						
	Batch ID: <b>R43992</b>	TestNo: <b>SW8021B</b>	FileID: <b>TVB41211\006R</b>	Analysis Date: <b>12/11/08</b>	SeqNo: <b>779498</b>						
Analyte	Result	LQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Benzene	25.6	1.0	25.5	0	100	70	130	25.64	0.176	30	
Toluene	188.4	2.0	183.6	0	103	70	130	186.7	0.892	30	
Ethylbenzene	36.65	2.0	36.8	0	99.6	70	130	36.66	0.0218	30	
m,p-Xylene	143.9	2.0	136.3	0	106	70	130	143.9	0.00764	30	
o-Xylene	57.33	2.0	57.2	0	100	70	130	56.88	0.797	30	
Surr: 1,2,4-Trichlorobenzene (S)	106.9	0	100	0	107	60	140	0	0	0	

Qualifiers: U - Not detected at or above the Reporting Limit  
J - Analyte detected below quantitation limits  
S - Spike Recovery outside acceptance limits  
E - Extrapolated value, value exceeds calibration range.

R - RPD outside acceptance limits  
B - Analyte detected in the associated Method Blank  
H - Prep or analytical holding time exceeded  
X - See case narrative

Work Order: 08-9411  
Client Project ID: 008-2067

## ANALYTICAL QC SUMMARY REPORT

BatchID: R43992

Sample ID: 08-9411-04AMS	SampType: MS	TestCode: 8021_W	Run ID: TVHBTEX4_081211A	Prep Date: 12/11/08	Units: µg/L						
Client ID: MW14	Batch ID: R43992	TestNo: SW8021B	FileID: TVB41211\009R	Analysis Date: 12/11/08	SeqNo: 779501						
Analyte	Result	LQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Benzene	27.32	1.0	25.5	0	107	70	130	0	0		
Toluene	190.2	2.0	183.6	0	104	70	130	0	0		
Ethylbenzene	36.52	2.0	36.8	0	99.2	62	130	0	0		
m,p-Xylene	146.8	2.0	136.3	0	108	70	134	0	0		
o-Xylene	58.57	2.0	57.2	0	102	63	130	0	0		
Surr: 1,2,4-Trichlorobenzene (S)	108.7	0	100	0	109	60	140	0	0		

Sample ID: 08-9411-04AMSD	SampType: MSD	TestCode: 8021_W	Run ID: TVHBTEX4_081211A	Prep Date: 12/11/08	Units: µg/L						
Client ID: MW14	Batch ID: R43992	TestNo: SW8021B	FileID: TVB41211\010R	Analysis Date: 12/11/08	SeqNo: 779502						
Analyte	Result	LQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Benzene	26.81	1.0	25.5	0	105	70	130	27.32	1.87	30	
Toluene	189.4	2.0	183.6	0	103	70	130	190.2	0.440	30	
Ethylbenzene	37.23	2.0	36.8	0	101	62	130	36.52	1.93	30	
m,p-Xylene	146.5	2.0	136.3	0	107	70	134	146.8	0.229	30	
o-Xylene	58.22	2.0	57.2	0	102	63	130	58.57	0.598	30	
Surr: 1,2,4-Trichlorobenzene (S)	106.3	0	100	0	106	60	140	0	0	0	

Qualifiers:  
U - Not detected at or above the Reporting Limit  
J - Analyte detected below quantitation limits  
S - Spike Recovery outside acceptance limits  
E - Extrapolated value, value exceeds calibration range.

R - RPD outside acceptance limits  
B - Analyte detected in the associated Method Blank  
H - Prep or analytical holding time exceeded  
X - See case narrative

Work Order: 08-9411

Client Project ID: 008-2067

## ANALYTICAL QC SUMMARY REPORT

BatchID: GAS121108

Sample ID: <b>GB121108</b>	SampType: <b>MBLK</b>	TestCode: <b>MEEP_W</b>	Run ID: <b>FID4_081211A</b>	Prep Date: <b>12/11/08</b>	Units: <b>mg/L</b>						
	Batch ID: <b>GAS121108</b>	TestNo: <b>RSKSOP175</b>	FileID: <b>GAS121104</b>	Analysis Date: <b>12/11/08</b>	SeqNo: <b>779629</b>						
Analyte	Result	LQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Methane U 0.00080

Sample ID: <b>LCS121108</b>	SampType: <b>LCS</b>	TestCode: <b>MEEP_W</b>	Run ID: <b>FID4_081211A</b>	Prep Date: <b>12/11/08</b>	Units: <b>mg/L</b>						
	Batch ID: <b>GAS121108</b>	TestNo: <b>RSKSOP175</b>	FileID: <b>GAS121105</b>	Analysis Date: <b>12/11/08</b>	SeqNo: <b>779631</b>						
Analyte	Result	LQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Methane 0.5977 0.0080 0.5094 0 117 70 130 0 0

Sample ID: <b>LCSD121108</b>	SampType: <b>LCSD</b>	TestCode: <b>MEEP_W</b>	Run ID: <b>FID4_081211A</b>	Prep Date: <b>12/11/08</b>	Units: <b>mg/L</b>						
	Batch ID: <b>GAS121108</b>	TestNo: <b>RSKSOP175</b>	FileID: <b>GAS121106</b>	Analysis Date: <b>12/11/08</b>	SeqNo: <b>779633</b>						
Analyte	Result	LQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Methane 0.5869 0.0080 0.5094 0 115 70 130 0.5903 0.577 30

Sample ID: 08-9413-05BMS	SampType: MS	TestCode: MEEP_W	Run ID: FID4_081211A	Prep Date: 12/11/08	Units: mg/L						
	Batch ID: GAS121108	TestNo: RSKSOP175	FileID: GAS121125	Analysis Date: 12/11/08	SeqNo: 779608						
Analyte	Result	LQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Methane 0.575 0.0080 0.5094 0.009248 111 70 130 0 0

Sample ID: 08-9413-05BMSD	SampType: MSD	TestCode: MEEP_W	Run ID: FID4_081211A	Prep Date: 12/11/08	Units: mg/L						
	Batch ID: GAS121108	TestNo: RSKSOP175	FileID: GAS121126	Analysis Date: 12/11/08	SeqNo: 779609						
Analyte	Result	LQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Methane 0.5712 0.0080 0.5094 0.009248 110 70 130 0.575 0.669 30

## Qualifiers:

U - Not detected at or above the Reporting Limit  
 J - Analyte detected below quantitation limits  
 S - Spike Recovery outside acceptance limits  
 E - Extrapolated value, value exceeds calibration range.

R - RPD outside acceptance limits  
 B - Analyte detected in the associated Method Blank  
 H - Prep or analytical holding time exceeded  
 X - See case narrative

Work Order: 08-9411

Client Project ID: 008-2067

## ANALYTICAL QC SUMMARY REPORT

TestCode: COND\_W

Sample ID	LCS	SampType: LCS	TestCode: COND_W	Run ID: COND_081211A	Prep Date: 12/11/2008	Units: µmhos/cm						
		Batch ID: R43980	TestNo: SM2510 B	FileID: 1	Analysis Date: 12/11/2008	SeqNo: 779275						
Analyte		Result	LQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Specific Conductance		93.1	1.00	100.1	0	93	90	110	0	0		

Sample ID	LCS	SampType: LCS	TestCode: COND_W	Run ID: COND_081211A	Prep Date: 12/11/2008	Units: µmhos/cm						
		Batch ID: R43980	TestNo: SM2510 B	FileID: 23	Analysis Date: 12/11/2008	SeqNo: 779308						
Analyte		Result	LQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Specific Conductance		95.8	1.00	100.1	0	95.7	90	110	0	0		

## Qualifiers:

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J - Analyte detected below quantitation limits  
S - Spike Recovery outside acceptance limits  
E - Extrapolated value, value exceeds calibration range.

R - RPD outside acceptance limits  
B - Analyte detected in the associated Method Blank  
H - Prep or analytical holding time exceeded  
X - See case narrative

Work Order: 08-9411  
Client Project ID: 008-2067

## ANALYTICAL QC SUMMARY REPORT

TestCode: PH\_DW

Sample ID	LCS-R43953	SampType:	LCS	TestCode:	PH_DW	Run ID:	PH_081210A	Prep Date:	12/10/2008	Units:	pH Units		
		Batch ID:	R43953	TestNo:	E150.1	FileID:		Analysis Date:	12/10/2008	SeqNo:	778786		
Analyte		Result		LQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
pH		7.97		1.00	8	0	99.6	99.3	100.7	0	0		

**Qualifiers:**  
U - Not detected at or above the Reporting Limit  
J - Analyte detected below quantitation limits  
S - Spike Recovery outside acceptance limits  
E - Extrapolated value, value exceeds calibration range.

R - RPD outside acceptance limits  
B - Analyte detected in the associated Method Blank  
H - Prep or analytical holding time exceeded  
X - See case narrative

Work Order: 08-9411  
Client Project ID: 008-2067

## ANALYTICAL QC SUMMARY REPORT

TestCode: TDS\_W

Sample ID	MBLK 121508	SampType:	MBLK	TestCode:	TDS_W	Run ID:	ANALYTICAL BALANCE_081216B			Prep Date:	12/15/2008	Units:	mg/L
		Batch ID:	R44076	TestNo:	SM 2540C	FileID:	100			Analysis Date:	12/15/2008	SeqNo:	781185
Analyte		Result		LQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Total Dissolved Solids U 10.0

Sample ID	LCS	SampType: LCS	TestCode: TDS_W	Run ID: ANALYTICAL BALANCE_081216B	Prep Date: 12/15/2008	Units: mg/L						
		Batch ID: R44076	TestNo: SM 2540C	FileID: 101	Analysis Date: 12/15/2008	SeqNo: 781186						
Analyte		Result	LQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Total Dissolved Solids 392 10.0 400 0 98 90 110 0 0

**Qualifiers:**

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J - Analyte detected below quantitation limits  
S - Spike Recovery outside acceptance limits  
E - Extrapolated value, value exceeds calibration range.

R - RPD outside acceptance limits  
B - Analyte detected in the associated Method Blank  
H - Prep or analytical holding time exceeded  
X - See case narrative



Work Order: 08-9411

Client Project ID: 008-2067

## ANALYTICAL QC SUMMARY REPORT

BatchID: 17504

Sample ID: MB-17504	SampType: MBLK	TestCode: 200.7_D	Run ID: ICP-OPTIMA 5300 DV_081211A	Prep Date: 12/10/08	Units: mg/L						
	Batch ID: 17504	TestNo: E200.7, Rev. 4	FileID: 121108am	Analysis Date: 12/11/08	SeqNo: 779656						
Analyte	Result	LQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Sodium	U	0.400									
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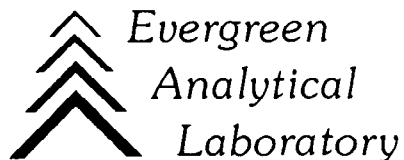
Sample ID: LCS-17504	SampType: LCS	TestCode: 200.7_D	Run ID: ICP-OPTIMA 5300 DV_081211A	Prep Date: 12/10/08	Units: mg/L						
	Batch ID: 17504	TestNo: E200.7, Rev. 4	FileID: 121108am	Analysis Date: 12/11/08	SeqNo: 779657						
Analyte	Result	LQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Sodium	10.03	0.400	10	0.344	100	80	120	0	0		
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## Qualifiers:

U - Not detected at or above the Reporting Limit  
J - Analyte detected below quantitation limits  
S - Spike Recovery outside acceptance limits  
E - Extrapolated value, value exceeds calibration range.

R - RPD outside acceptance limits  
B - Analyte detected in the associated Method Blank  
H - Prep or analytical holding time exceeded  
X - See case narrative



December 23, 2008

Stuart Hall  
Cordilleran Compliance  
826 21 1/2 Road  
Grand Junction, CO 81505

Lab Work Order: 08-9411  
Client Project ID: 008-2067

Dear Stuart Hall:

Enclosed are the analytical results for the samples shown in the Laboratory Work Order Summary. The invoice is included with this report or has been mailed to another party as indicated on the chain of custody.

The enclosed data for testing performed at Evergreen Analytical Laboratory (EAL) have been reviewed for quality assurance. A case narrative is included to describe any anomalies associated with the samples or data.

EAL will dispose of all samples 44 days from the sample receipt date. If you want samples returned, please advise us by mail or fax as soon as possible.

A copy of this project report and supporting data will be retained for a period of five years unless we are otherwise advised by you. A document retrieval charge will apply.

Thank you for using the services of Evergreen Analytical. If you have any questions concerning the analytical data, please contact me. Please direct other questions to Client Services.

Sincerely,



Kaprie Hollman/Carl Smits  
Quality Assurance

## WORK ORDER Summary

Evergreen Analytical, Inc.

08-9413

Rpt To: Stuart Hall

Email To: shall@oaconsulting.com

Cordilleran Compliance

826 21 1/2 Road

Grand Junction, CO 81505

(970) 263-7800

12/10/2008 3:08:46 PM

Client Project ID: 008-2067

QC Level: LEVEL I

Comments Add Sample Summary Report to all results packages.

Sample ID	Client Sample ID	Matrix	Collection Date	Date Received	Test Code	Test Name	Hold	MS	Date Due	Hold Time
08-9413-01A	MW17	Water	12/09/08 1400	12/10/08	8021_W *	8021: BTEX	<input type="checkbox"/>	<input type="checkbox"/>	12/15/08	12/16/08
08-9413-01B	MW17	Water	12/09/08 1400	12/10/08	MEEP_W *	RSK175M: Methane	<input type="checkbox"/>	<input type="checkbox"/>	12/24/08	12/16/08
08-9413-01C	MW17	Water	12/09/08 1400	12/10/08	COND_W	Specific Conductance @ 25°C	<input type="checkbox"/>	<input type="checkbox"/>	12/24/08	1/06/09
08-9413-01C	MW17	Water	12/09/08 1400	12/10/08	PH_DW	E150.1 pH	<input type="checkbox"/>	<input type="checkbox"/>	12/24/08	12/10/08
08-9413-01C	MW17	Water	12/09/08 1400	12/10/08	TDS_W	Total Dissolved Solids (TDS)	<input type="checkbox"/>	<input type="checkbox"/>	12/24/08	12/16/08
08-9413-01D	MW17	Water	12/09/08 1400	12/10/08	6010_D *	6010: Dissolved Metals	<input type="checkbox"/>	<input type="checkbox"/>	12/24/08	6/07/09
08-9413-02A	MW26	Water	12/09/08 1245	12/10/08	8021_W *	8021: BTEX	<input type="checkbox"/>	<input type="checkbox"/>	12/15/08	12/16/08
08-9413-02B	MW26	Water	12/09/08 1245	12/10/08	MEEP_W *	RSK175M: Methane	<input type="checkbox"/>	<input type="checkbox"/>	12/24/08	12/16/08
08-9413-02C	MW26	Water	12/09/08 1245	12/10/08	COND_W	Specific Conductance @ 25°C	<input type="checkbox"/>	<input type="checkbox"/>	12/24/08	1/06/09
08-9413-02C	MW26	Water	12/09/08 1245	12/10/08	PH_DW	E150.1 pH	<input type="checkbox"/>	<input type="checkbox"/>	12/24/08	12/10/08
08-9413-02C	MW26	Water	12/09/08 1245	12/10/08	TDS_W	Total Dissolved Solids (TDS)	<input type="checkbox"/>	<input type="checkbox"/>	12/24/08	12/16/08
08-9413-02D	MW26	Water	12/09/08 1245	12/10/08	6010_D *	6010: Dissolved Metals	<input type="checkbox"/>	<input type="checkbox"/>	12/24/08	6/07/09
08-9413-03A	MW7	Water	12/09/08 1325	12/10/08	8021_W *	8021: BTEX	<input type="checkbox"/>	<input type="checkbox"/>	12/15/08	12/16/08
08-9413-03B	MW7	Water	12/09/08 1325	12/10/08	MEEP_W *	RSK175M: Methane	<input type="checkbox"/>	<input type="checkbox"/>	12/24/08	12/16/08
08-9413-03C	MW7	Water	12/09/08 1325	12/10/08	COND_W	Specific Conductance @ 25°C	<input type="checkbox"/>	<input type="checkbox"/>	12/24/08	1/06/09
08-9413-03C	MW7	Water	12/09/08 1325	12/10/08	PH_DW	E150.1 pH	<input type="checkbox"/>	<input type="checkbox"/>	12/24/08	12/10/08
08-9413-03C	MW7	Water	12/09/08 1325	12/10/08	TDS_W	Total Dissolved Solids (TDS)	<input type="checkbox"/>	<input type="checkbox"/>	12/24/08	12/16/08
08-9413-03D	MW7	Water	12/09/08 1325	12/10/08	6010_D *	6010: Dissolved Metals	<input type="checkbox"/>	<input type="checkbox"/>	12/24/08	6/07/09
08-9413-04A	MW4	Water	12/09/08 1350	12/10/08	8021_W *	8021: BTEX	<input type="checkbox"/>	<input type="checkbox"/>	12/15/08	12/16/08
08-9413-04B	MW4	Water	12/09/08 1350	12/10/08	MEEP_W *	RSK175M: Methane	<input type="checkbox"/>	<input type="checkbox"/>	12/24/08	12/16/08
08-9413-04C	MW4	Water	12/09/08 1350	12/10/08	COND_W	Specific Conductance @ 25°C	<input type="checkbox"/>	<input type="checkbox"/>	12/24/08	1/06/09

Definitions: \* - Test Code has a Select List

## WORK ORDER Summary

Evergreen Analytical, Inc.

08-9413

Rpt To: Stuart Hall

Email To: shall@oaconsulting.com

12/10/2008 3:08:46 PM

Cordilleran Compliance

826 21 1/2 Road

Grand Junction, CO 81505

(970) 263-7800

Client Project ID: 008-2067

QC Level: LEVEL I

08-9413-04C	MW4	Water	12/09/08 1350	12/10/08	PH_DW	E150.1 pH	<input type="checkbox"/>	<input type="checkbox"/>	12/24/08	12/10/08
08-9413-04C	MW4	Water	12/09/08 1350	12/10/08	TDS_W	Total Dissolved Solids (TDS)	<input type="checkbox"/>	<input type="checkbox"/>	12/24/08	12/16/08
08-9413-04D	MW4	Water	12/09/08 1350	12/10/08	6010_D *	6010: Dissolved Metals	<input type="checkbox"/>	<input type="checkbox"/>	12/24/08	6/07/09
08-9413-05A	MW6	Water	12/09/08 1315	12/10/08	8021_W *	8021: BTEX	<input type="checkbox"/>	<input type="checkbox"/>	12/15/08	12/16/08
08-9413-05B	MW6	Water	12/09/08 1315	12/10/08	MEEP_W *	RSK175M: Methane	<input type="checkbox"/>	<input type="checkbox"/>	12/24/08	12/16/08
08-9413-05C	MW6	Water	12/09/08 1315	12/10/08	COND_W	Specific Conductance @ 25°C	<input type="checkbox"/>	<input type="checkbox"/>	12/24/08	1/06/09
08-9413-05C	MW6	Water	12/09/08 1315	12/10/08	PH_DW	E150.1 pH	<input type="checkbox"/>	<input type="checkbox"/>	12/24/08	12/10/08
08-9413-05C	MW6	Water	12/09/08 1315	12/10/08	TDS_W	Total Dissolved Solids (TDS)	<input type="checkbox"/>	<input type="checkbox"/>	12/24/08	12/16/08
08-9413-05D	MW6	Water	12/09/08 1315	12/10/08	6010_D *	6010: Dissolved Metals	<input type="checkbox"/>	<input type="checkbox"/>	12/24/08	6/07/09
08-9413-06A	MW1	Water	12/09/08 1435	12/10/08	8021_W *	8021: BTEX	<input type="checkbox"/>	<input type="checkbox"/>	12/15/08	12/16/08
08-9413-06B	MW1	Water	12/09/08 1435	12/10/08	MEEP_W *	RSK175M: Methane	<input type="checkbox"/>	<input type="checkbox"/>	12/24/08	12/16/08
08-9413-06C	MW1	Water	12/09/08 1435	12/10/08	COND_W	Specific Conductance @ 25°C	<input type="checkbox"/>	<input type="checkbox"/>	12/24/08	1/06/09
08-9413-06C	MW1	Water	12/09/08 1435	12/10/08	PH_DW	E150.1 pH	<input type="checkbox"/>	<input type="checkbox"/>	12/24/08	12/10/08
08-9413-06C	MW1	Water	12/09/08 1435	12/10/08	TDS_W	Total Dissolved Solids (TDS)	<input type="checkbox"/>	<input type="checkbox"/>	12/24/08	12/16/08
08-9413-06D	MW1	Water	12/09/08 1435	12/10/08	6010_D *	6010: Dissolved Metals	<input type="checkbox"/>	<input type="checkbox"/>	12/24/08	6/07/09
08-9413-07A	MW26D	Water	12/09/08 1245	12/10/08	8021_W *	8021: BTEX	<input type="checkbox"/>	<input type="checkbox"/>	12/15/08	12/16/08
08-9413-07B	MW26D	Water	12/09/08 1245	12/10/08	MEEP_W *	RSK175M: Methane	<input type="checkbox"/>	<input type="checkbox"/>	12/24/08	12/16/08
08-9413-07C	MW26D	Water	12/09/08 1245	12/10/08	COND_W	Specific Conductance @ 25°C	<input type="checkbox"/>	<input type="checkbox"/>	12/24/08	1/06/09
08-9413-07C	MW26D	Water	12/09/08 1245	12/10/08	PH_DW	E150.1 pH	<input type="checkbox"/>	<input type="checkbox"/>	12/24/08	12/10/08
08-9413-07C	MW26D	Water	12/09/08 1245	12/10/08	TDS_W	Total Dissolved Solids (TDS)	<input type="checkbox"/>	<input type="checkbox"/>	12/24/08	12/16/08
08-9413-07D	MW26D	Water	12/09/08 1245	12/10/08	6010_D *	6010: Dissolved Metals	<input type="checkbox"/>	<input type="checkbox"/>	12/24/08	6/07/09

Definitions: \* - Test Code has a Select List

# CHAIN OF CUSTODY RECORD / ANALYTICAL SERVICES AGREEMENT \*\*

Evergreen Analytical Laboratory Inc.

Page 1 of 1

## CLIENT INFORMATION

CLIENT Cordilleran Compliance

ADDRESS 826 21 1/2 Rd

CITY Grand Junction STATE CO ZIP 81505

PHONE 970-263-7800 FAX 970-263-7456

E-mail shall@cordilleran.com E-mail info@evergreenanalytical.com

REPORT BY ☐ MAIL ☐ FAX ☒ PDF ☐ EDD

REPORT CHROMATOGRAMS ☐ YES ☐ NO

REPORT TO (Mr/Ms) Stuart Hell

INVOICE TO

PROJECT I.D. 008-2067

P.O. # EAL QUOTE #

Sampler: Stuart Hell (sign)

NOTE: Identify Known Hazards Below

SAMPLE IDENTIFICATION DATE SAMPLED TIME

## MATRIX

1) Drinking Water or 2) Discharge Water (circle one)  
3) Ground Water

Soil / Solid / Air / Gas

Oil / Sludge / Wipe

TCLP VOA/BNA/Pest/Herb/Metals (circle)

Volatile Organics 8260/824 (circle)

Semi-volatile Organics BNA, PAH, PNA 8270/825 (circle)

Pesticides 8081/8270/808 (circle)

PCBs/8082/808/screen (circle)

Herbicides 8151

BTEX 8021/8028/802/MTBE (circle)

TVPH 8015mod. (Gasoline)

TEPH 8015mod. (Diesel)

Total Metals-DW / NPDES / SW846 (circle & list metals below)

Dissolved Metals - DW / SW846 (circle & list metals below)

TRPH 418.1, O&G 413.1, 1664 (circle)

COD, NH<sub>3</sub>, TOC, TP (circle)

AIK, BOD, pH, TDS, TSS (circle)

Diss Methane

TDS/Sp/PH

Wet (Sodium P-20) (circle)

Wet (Sodium P-20) (circle)

Wet (Sodium P-20) (circle)

Wet (Sodium P-20) (circle)

Wet (Sodium P-20) (circle)

Wet (Sodium P-20) (circle)

Wet (Sodium P-20) (circle)

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Wet (Sodium P-20) (circle)

Wet (Sodium P-20) (circle)

Wet (Sodium P-20) (circle)

Wet (Sodium P-20) (circle)

For Laboratory use only:

W.O.# 08-9413

B.O.F.# NA

C/S (O) NA

C/S (I) Ct / upr

Cooler Temp. °C 2.0

Seals Present Y / N / NA

Seals Intact Y / N

Samples Pres. Y / N / NA

Headspace Y / N / NA

By J

Does this analysis involve property transfer? ☐ Yes or ☒ No

Instructions:

\*\* Important Note: See reverse side hereof for terms and conditions.

Relinquished by: (Signature)

Stuart Hell

Date/Time

12/1/08  
1755

Received by: (Signature)

Date/Time

Relinquished by: (Signature)

Date/Time

Received by: (Signature)

JRIL

Date/Time

12/1/08  
1055

**Evergreen Analytical, Inc.**

**Date:** 23-Dec-08

**Lab Order:** 08-9413

**Client Project ID** 008-2067

## **CASE NARRATIVE**

### **SAMPLE RECEIVING**

Custody seals were present and intact.

The temperature of the sample(s) upon arrival was 2.0°C.

Sample(s) were received in good condition, in the proper container, and within holding times.

VOC samples were not preserved.

VOC sample(s) were received with no headspace present. JD

### **QUALITY ASSURANCE (QA)**

Analyses performed on samples in this work order by EAL meet the requirements of the EAL Quality Assurance Program unless otherwise explained. Analyses of RCRA samples meet the requirements of NELAC and Utah Rule R444-14 unless otherwise explained. JE

### **CLIENT SERVICES**

There are no anomalies to report. AE

### **GENERAL CHEMISTRY**

There are no anomalies to report. MM

### **METALS ANALYSIS**

Method SW6010B: Sodium was detected in the method blank (MB) at 0.49 mg/L. This amount was not subtracted from the sample result. There are no other anomalies to report. SS/JE

### **GAS CHROMATOGRAPHY**

Method RSK175: There are no anomalies to report. VM

Method 8021\_W: There are no anomalies to report. VM

## SUMMARY OF SAMPLE RESULTS

## Evergreen Analytical, Inc.

4036 Youngfield Street, Wheat Ridge, Colorado 80033-3862  
(303) 425-6021

Client Sample ID: MW17  
Client Project ID: 008-2067  
Date Collected: 12/9/08 1400  
Date Received: 12/10/08

Lab Work Order: 08-9413  
Lab Sample ID: 08-9413-01  
Sample Matrix: Water

<b>Dissolved Metals</b>	<b>Method: SW6010B</b>			<b>Analyst: MAB</b>
	<b>Result</b>	<b>LQL</b>	<b>DF</b>	<b>Units</b>
Sodium	260 B	0.40	1	mg/L
<b>Aromatic Volatile Organics</b>	<b>Method: SW8021B</b>			<b>Analyst: VM</b>
	<b>Result</b>	<b>LQL</b>	<b>DF</b>	<b>Units</b>
Benzene	21	1.0	1	µg/L
Ethylbenzene	U	2.0	1	µg/L
m,p-Xylene	U	2.0	1	µg/L
o-Xylene	U	2.0	1	µg/L
Toluene	U	2.0	1	µg/L
<b>Specific Conductance @ 25°C</b>	<b>Method: SM2510 B</b>			<b>Analyst: CJ</b>
	<b>Result</b>	<b>LQL</b>	<b>DF</b>	<b>Units</b>
Specific Conductance	1140	1.00	1	µmhos/cm
<b>RSKSOP-175M Headspace</b>	<b>Method: RSKSOP175M</b>			<b>Analyst: VM</b>
	<b>Result</b>	<b>LQL</b>	<b>DF</b>	<b>Units</b>
Methane	1.9	0.040	50	mg/L
<b>E150.1 pH</b>	<b>Method: E150.1</b>			<b>Analyst: CJ</b>
	<b>Result</b>	<b>LQL</b>	<b>DF</b>	<b>Units</b>
pH	7.55	1.00	1	pH Units
<b>Total Dissolved Solids (TDS)</b>	<b>Method: SM 2540C</b>			<b>Analyst: JD</b>
	<b>Result</b>	<b>LQL</b>	<b>DF</b>	<b>Units</b>
Total Dissolved Solids	798	10.0	1	mg/L

**Qualifiers:** B - Analyte detected in the associated Method Blank, value not subtracted from result  
E - Extrapolated value. Value exceeds calibration range  
H - Sample analysis exceeded analytical holding time  
J - Indicates an estimated value when the compound is detected, but is below the LQL  
U - Compound analyzed for but not detected  
X - See case narrative  
\* - Value exceeded the Maximum Contamination Level (MCL), TCLP limit, or if compound is undetected, LQL exceeds MCL.

**Definitions:** NA - Not Applicable

Print Date: 12/23/2008

## SUMMARY OF SAMPLE RESULTS

## Evergreen Analytical, Inc.

4036 Youngfield Street, Wheat Ridge, Colorado 80033-3862  
(303) 425-6021

Client Sample ID: MW26  
Client Project ID: 008-2067  
Date Collected: 12/9/08 1245  
Date Received: 12/10/08

Lab Work Order: 08-9413  
Lab Sample ID: 08-9413-02  
Sample Matrix: Water

## Dissolved Metals

Method: SW6010B

Analyst: MAB

Result	LQL	DF	Units
81 B	0.40	1	mg/L

Sodium

## Aromatic Volatile Organics

Method: SW8021B

Analyst: VM

Result	LQL	DF	Units
U	1.0	1	µg/L
U	2.0	1	µg/L
U	2.0	1	µg/L
U	2.0	1	µg/L
U	2.0	1	µg/L

Benzene

Ethylbenzene

m,p-Xylene

o-Xylene

Toluene

## Specific Conductance @ 25°C

Method: SM2510 B

Analyst: CJ

Result	LQL	DF	Units
743	1.00	1	µmhos/cm

Specific Conductance

## RSKSOP-175M Headspace

Method: RSKSOP175M

Analyst: VM

Result	LQL	DF	Units
0.73	0.0080	10	mg/L

Methane

## E150.1 pH

Method: E150.1

Analyst: CJ

Result	LQL	DF	Units
7.27	1.00	1	pH Units

pH

## Total Dissolved Solids (TDS)

Method: SM 2540C

Analyst: JD

Result	LQL	DF	Units
504	10.0	1	mg/L

Total Dissolved Solids

**Qualifiers:** B - Analyte detected in the associated Method Blank, value not subtracted from result  
E - Extrapolated value. Value exceeds calibration range  
H - Sample analysis exceeded analytical holding time  
J - Indicates an estimated value when the compound is detected, but is below the LQL  
U - Compound analyzed for but not detected  
X - See case narrative  
\* - Value exceeded the Maximum Contamination Level (MCL), TCLP limit, or if compound is undetected, LQL exceeds MCL.

**Definitions:** NA - Not Applicable

Print Date: 12/23/2008



## SUMMARY OF SAMPLE RESULTS

## Evergreen Analytical, Inc.

4036 Youngfield Street, Wheat Ridge, Colorado 80033-3862

(303) 425-6021

Client Sample ID: MW7  
 Client Project ID: 008-2067  
 Date Collected: 12/9/08 1325  
 Date Received: 12/10/08

Lab Work Order: 08-9413  
 Lab Sample ID: 08-9413-03  
 Sample Matrix: Water

## Dissolved Metals

Method: SW6010B

Analyst: MAB

Result	LQL	DF	Units
150 B	0.40	1	mg/L

Sodium

## Aromatic Volatile Organics

Method: SW8021B

Analyst: VM

Result	LQL	DF	Units
U	1.0	1	µg/L
U	2.0	1	µg/L
U	2.0	1	µg/L
U	2.0	1	µg/L
U	2.0	1	µg/L

Benzene

Ethylbenzene

m,p-Xylene

o-Xylene

Toluene

## Specific Conductance @ 25°C

Method: SM2510 B

Analyst: CJ

Result	LQL	DF	Units
1110	1.00	1	µmhos/cm

Specific Conductance

## RSKSOP-175M Headspace

Method: RSKSOP175M

Analyst: VM

Result	LQL	DF	Units
0.0032	0.00080	1	mg/L

Methane

## E150.1 pH

Method: E150.1

Analyst: CJ

Result	LQL	DF	Units
7.38	1.00	1	pH Units

pH

## Total Dissolved Solids (TDS)

Method: SM 2540C

Analyst: JD

Result	LQL	DF	Units
774	10.0	1	mg/L

Total Dissolved Solids

**Qualifiers:** B - Analyte detected in the associated Method Blank, value not subtracted from result  
 E - Extrapolated value. Value exceeds calibration range  
 H - Sample analysis exceeded analytical holding time  
 J - Indicates an estimated value when the compound is detected, but is below the LQL  
 U - Compound analyzed for but not detected  
 X - See case narrative  
 \* - Value exceeded the Maximum Contamination Level (MCL), TCLP limit, or if compound is undetected, LQL exceeds MCL.

**Definitions:** NA - Not Applicable

Print Date: 12/23/2008

## SUMMARY OF SAMPLE RESULTS

## Evergreen Analytical, Inc.

4036 Youngfield Street, Wheat Ridge, Colorado 80033-3862  
(303) 425-6021

Client Sample ID: MW4  
Client Project ID: 008-2067  
Date Collected: 12/9/08 1350  
Date Received: 12/10/08

Lab Work Order: 08-9413  
Lab Sample ID: 08-9413-04  
Sample Matrix: Water

## Dissolved Metals

Method: SW6010B

Analyst: MAB

Result	LQL	DF	Units
130 B	0.40	1	mg/L

Sodium

## Aromatic Volatile Organics

Method: SW8021B

Analyst: VM

Result	LQL	DF	Units
100	1.0	1	µg/L
U	2.0	1	µg/L
25	2.0	1	µg/L
3.4	2.0	1	µg/L
U	2.0	1	µg/L

Benzene

Ethylbenzene

m,p-Xylene

o-Xylene

Toluene

## Specific Conductance @ 25°C

Method: SM2510 B

Analyst: CJ

Result	LQL	DF	Units
723	1.00	1	µmhos/cm

Specific Conductance

## RSKSOP-175M Headspace

Method: RSKSOP175M

Analyst: VM

Result	LQL	DF	Units
8.6	0.040	50	mg/L

Methane

## E150.1 pH

Method: E150.1

Analyst: CJ

Result	LQL	DF	Units
7.68	1.00	1	pH Units

pH

## Total Dissolved Solids (TDS)

Method: SM 2540C

Analyst: JD

Result	LQL	DF	Units
484	10.0	1	mg/L

Total Dissolved Solids

**Qualifiers:** B - Analyte detected in the associated Method Blank, value not subtracted from result  
E - Extrapolated value. Value exceeds calibration range  
H - Sample analysis exceeded analytical holding time  
J - Indicates an estimated value when the compound is detected, but is below the LQL  
U - Compound analyzed for but not detected  
X - See case narrative  
\* - Value exceeded the Maximum Contamination Level (MCL), TCLP limit, or if compound is undetected, LQL exceeds MCL.

**Definitions:** NA - Not Applicable

Print Date: 12/23/2008

## SUMMARY OF SAMPLE RESULTS

## Evergreen Analytical, Inc.

4036 Youngfield Street, Wheat Ridge, Colorado 80033-3862  
(303) 425-6021

Client Sample ID: MW6  
Client Project ID: 008-2067  
Date Collected: 12/9/08 1315  
Date Received: 12/10/08

Lab Work Order: 08-9413  
Lab Sample ID: 08-9413-05  
Sample Matrix: Water

<b>Dissolved Metals</b>	<b>Method: SW6010B</b>			<b>Analyst: MAB</b>
	<b>Result</b>	<b>LQL</b>	<b>DF</b>	<b>Units</b>
Sodium	130 B	0.40	1	mg/L
<b>Aromatic Volatile Organics</b>	<b>Method: SW8021B</b>			<b>Analyst: VM</b>
	<b>Result</b>	<b>LQL</b>	<b>DF</b>	<b>Units</b>
Benzene	U	1.0	1	µg/L
Ethylbenzene	U	2.0	1	µg/L
m,p-Xylene	U	2.0	1	µg/L
o-Xylene	U	2.0	1	µg/L
Toluene	U	2.0	1	µg/L
<b>Specific Conductance @ 25°C</b>	<b>Method: SM2510 B</b>			<b>Analyst: CJ</b>
	<b>Result</b>	<b>LQL</b>	<b>DF</b>	<b>Units</b>
Specific Conductance	1040	1.00	1	µmhos/cm
<b>RSKSOP-175M Headspace</b>	<b>Method: RSKSOP175M</b>			<b>Analyst: VM</b>
	<b>Result</b>	<b>LQL</b>	<b>DF</b>	<b>Units</b>
Methane	0.0092	0.00080	1	mg/L
<b>E150.1 pH</b>	<b>Method: E150.1</b>			<b>Analyst: CJ</b>
	<b>Result</b>	<b>LQL</b>	<b>DF</b>	<b>Units</b>
pH	7.17	1.00	1	pH Units
<b>Total Dissolved Solids (TDS)</b>	<b>Method: SM 2540C</b>			<b>Analyst: JD</b>
	<b>Result</b>	<b>LQL</b>	<b>DF</b>	<b>Units</b>
Total Dissolved Solids	714	10.0	1	mg/L

**Qualifiers:** B - Analyte detected in the associated Method Blank, value not subtracted from result  
E - Extrapolated value. Value exceeds calibration range  
H - Sample analysis exceeded analytical holding time  
J - Indicates an estimated value when the compound is detected, but is below the LQL  
U - Compound analyzed for but not detected  
X - See case narrative  
\* - Value exceeded the Maximum Contamination Level (MCL), TCLP limit, or if compound is undetected, LQL exceeds MCL.

**Definitions:** NA - Not Applicable

Print Date: 12/23/2008

## SUMMARY OF SAMPLE RESULTS

## Evergreen Analytical, Inc.

4036 Youngfield Street, Wheat Ridge, Colorado 80033-3862  
(303) 425-6021

Client Sample ID: MW1  
Client Project ID: 008-2067  
Date Collected: 12/9/08 1435  
Date Received: 12/10/08

Lab Work Order: 08-9413  
Lab Sample ID: 08-9413-06  
Sample Matrix: Water

<b>Dissolved Metals</b>	<b>Method: SW6010B</b>			<b>Analyst: MAB</b>
	<b>Result</b>	<b>LQL</b>	<b>DF</b>	<b>Units</b>
Sodium	220 B	0.40	1	mg/L
<b>Aromatic Volatile Organics</b>	<b>Method: SW8021B</b>			<b>Analyst: VM</b>
	<b>Result</b>	<b>LQL</b>	<b>DF</b>	<b>Units</b>
Benzene	U	1.0	1	µg/L
Ethylbenzene	U	2.0	1	µg/L
m,p-Xylene	U	2.0	1	µg/L
o-Xylene	U	2.0	1	µg/L
Toluene	U	2.0	1	µg/L
<b>Specific Conductance @ 25°C</b>	<b>Method: SM2510 B</b>			<b>Analyst: CJ</b>
	<b>Result</b>	<b>LQL</b>	<b>DF</b>	<b>Units</b>
Specific Conductance	1120	1.00	1	µmhos/cm
<b>RSKSOP-175M Headspace</b>	<b>Method: RSKSOP175M</b>			<b>Analyst: VM</b>
	<b>Result</b>	<b>LQL</b>	<b>DF</b>	<b>Units</b>
Methane	0.18	0.00080	1	mg/L
<b>E150.1 pH</b>	<b>Method: E150.1</b>			<b>Analyst: CJ</b>
	<b>Result</b>	<b>LQL</b>	<b>DF</b>	<b>Units</b>
pH	7.46	1.00	1	pH Units
<b>Total Dissolved Solids (TDS)</b>	<b>Method: SM 2540C</b>			<b>Analyst: JD</b>
	<b>Result</b>	<b>LQL</b>	<b>DF</b>	<b>Units</b>
Total Dissolved Solids	756	10.0	1	mg/L

**Qualifiers:** B - Analyte detected in the associated Method Blank, value not subtracted from result  
E - Extrapolated value. Value exceeds calibration range  
H - Sample analysis exceeded analytical holding time  
J - Indicates an estimated value when the compound is detected, but is below the LQL  
U - Compound analyzed for but not detected  
X - See case narrative  
\* - Value exceeded the Maximum Contamination Level (MCL), TCLP limit, or if compound is undetected, LQL exceeds MCL.

**Definitions:** NA - Not Applicable

Print Date: 12/23/2008

## SUMMARY OF SAMPLE RESULTS

## Evergreen Analytical, Inc.

4036 Youngfield Street, Wheat Ridge, Colorado 80033-3862

(303) 425-6021

Client Sample ID: MW26D  
 Client Project ID: 008-2067  
 Date Collected: 12/9/08 1245  
 Date Received: 12/10/08

Lab Work Order: 08-9413  
 Lab Sample ID: 08-9413-07  
 Sample Matrix: Water

<b>Dissolved Metals</b>	<b>Method: SW6010B</b>			<b>Analyst: MAB</b>
	<b>Result</b>	<b>LQL</b>	<b>DF</b>	<b>Units</b>
Sodium	82 B	0.40	1	mg/L
<b>Aromatic Volatile Organics</b>	<b>Method: SW8021B</b>			<b>Analyst: VM</b>
	<b>Result</b>	<b>LQL</b>	<b>DF</b>	<b>Units</b>
Benzene	U	1.0	1	µg/L
Ethylbenzene	U	2.0	1	µg/L
m,p-Xylene	U	2.0	1	µg/L
o-Xylene	U	2.0	1	µg/L
Toluene	U	2.0	1	µg/L
<b>Specific Conductance @ 25°C</b>	<b>Method: SM2510 B</b>			<b>Analyst: CJ</b>
	<b>Result</b>	<b>LQL</b>	<b>DF</b>	<b>Units</b>
Specific Conductance	748	1.00	1	µmhos/cm
<b>RSKSOP-175M Headspace</b>	<b>Method: RSKSOP175M</b>			<b>Analyst: VM</b>
	<b>Result</b>	<b>LQL</b>	<b>DF</b>	<b>Units</b>
Methane	0.79	0.0080	10	mg/L
<b>E150.1 pH</b>	<b>Method: E150.1</b>			<b>Analyst: CJ</b>
	<b>Result</b>	<b>LQL</b>	<b>DF</b>	<b>Units</b>
pH	7.31	1.00	1	pH Units
<b>Total Dissolved Solids (TDS)</b>	<b>Method: SM 2540C</b>			<b>Analyst: JD</b>
	<b>Result</b>	<b>LQL</b>	<b>DF</b>	<b>Units</b>
Total Dissolved Solids	507	10.0	1	mg/L

**Qualifiers:** B - Analyte detected in the associated Method Blank, value not subtracted from result  
 E - Extrapolated value. Value exceeds calibration range  
 H - Sample analysis exceeded analytical holding time  
 J - Indicates an estimated value when the compound is detected, but is below the LQL  
 U - Compound analyzed for but not detected  
 X - See case narrative  
 \* - Value exceeded the Maximum Contamination Level (MCL), TCLP limit, or if compound is undetected, LQL exceeds MCL.

**Definitions:** NA - Not Applicable

Print Date: 12/23/2008

# Evergreen Analytical, Inc.

4036 Youngfield Street, Wheat Ridge, Colorado 80033-3862  
(303) 425-6021

Client Sample ID: MW17  
Client Project ID: 008-2067  
Date Collected: 12/9/08  
Date Received: 12/10/08

Lab Work Order 08-9413  
Lab Sample ID: 08-9413-01A  
Sample Matrix: Water

## AROMATIC VOLATILE ORGANICS

Method: SW8021B

Prep Method: SW5030B

Date Prepared: 12/11/08

Lab File ID: TVB41211\039R

Dilution Factor: 1

Date Analyzed: 12/12/08

Method Blank: MB4121108-3

Analytes	CAS Number	Result	LQL	Units
Benzene	71-43-2	21	1.0	µg/L
Toluene	108-88-3	U	2.0	µg/L
Ethylbenzene	100-41-4	U	2.0	µg/L
m,p-Xylene	1330-20-7	U	2.0	µg/L
o-Xylene	95-47-6	U	2.0	µg/L
Surr: 1,2,4-Trichlorobenzene (S)	120-82-1	87	QC Limits: 60-140	%REC

VM

Analyst

J7

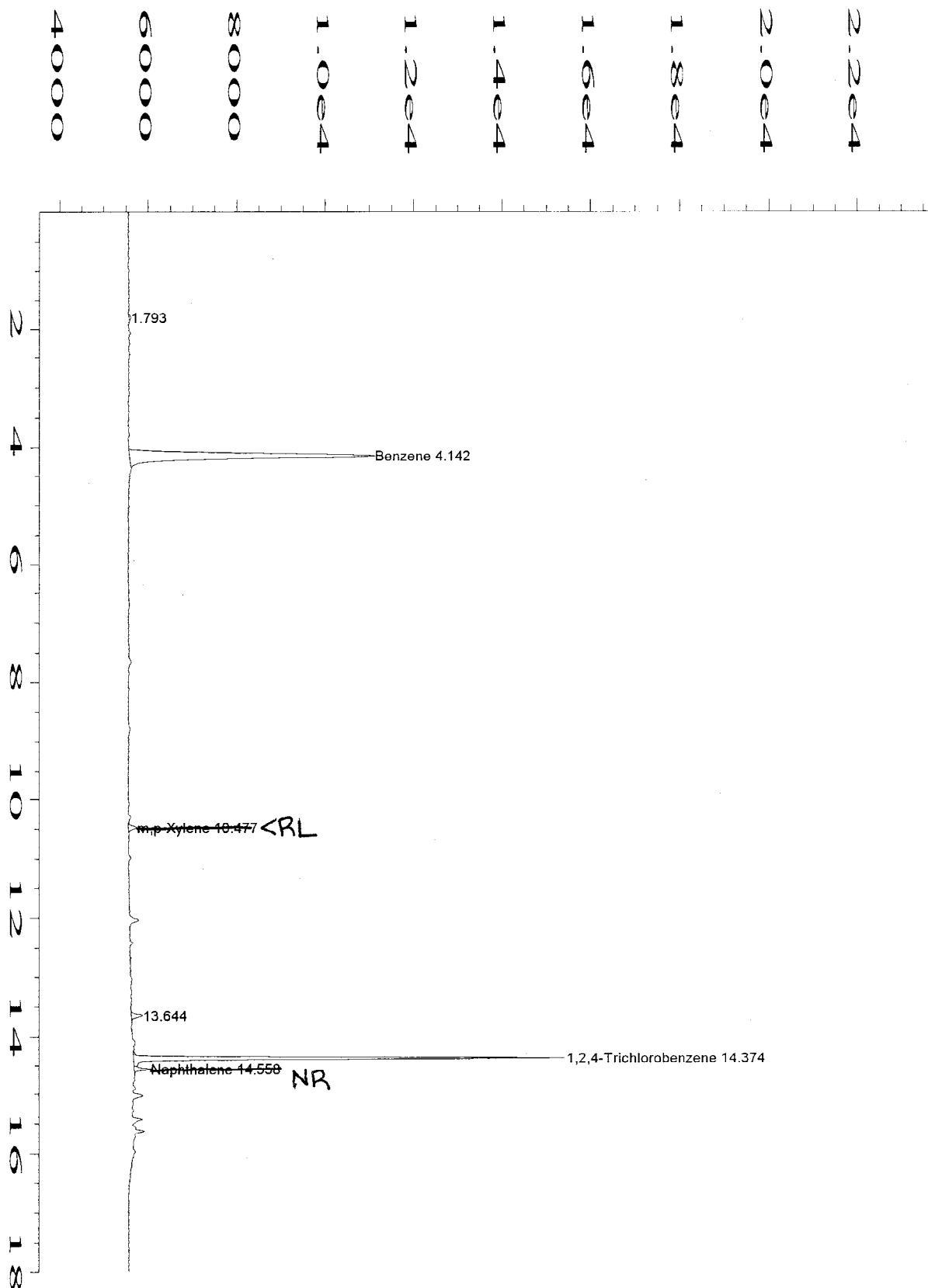
Approved

Notes: Total Xylenes consist of three isomers, two of which co-elute. The Xylene RL is for a single peak. Confirmation analysis was not performed.

**Qualifiers:** B - Analyte detected in the associated Method Blank, value not subtracted from result  
E - Extrapolated value. Value exceeds calibration range  
H - Sample analysis exceeded analytical holding time  
J - Indicates an estimated value when the compound is detected, but is below the LQL  
S - Spike Recovery outside accepted limits  
U - Compound analyzed for but not detected  
X - See case narrative  
\* - Value exceeded the Maximum Contamination Level (MCL), TCLP limit, or if compound is undetected, LQL exceeds MCL.

**Definitions:** LQL - Lower Quantitation Limit  
Surr - Surrogate

Print Date: 12/12/08



Data File Name	: C:\HPCHEM\1\DATA\TVB41211\039R0101.D	Page Number	: 1
Operator	: Virginia Meyer	Vial Number	: 39
Instrument	: TVHBTEX4	Injection Number	: 1
Sample Name	: 08-9413-01A	Sequence Line	: 1
Run Time Bar Code:		Instrument Method:	TS40717M.MTH
Acquired on	: 12 Dec 08 05:44 AM	Analysis Method	: BS41205.MTH
Report Created on:	12 Dec 08 06:02 AM	Sample Amount	: 0
Last Recalib on	: 08 DEC 08 07:34 AM	ISTD Amount	:
Multiplier	: 1		
Sample Info	: SAMP		
	DF=1		

VM 12.12.08

**Evergreen Analytical, Inc.**  
 4036 Youngfield Street, Wheat Ridge, Colorado 80033-3862  
 (303) 425-6021

**Client Sample ID:** MW26  
**Client Project ID:** 008-2067  
**Date Collected:** 12/9/08  
**Date Received:** 12/10/08

**Lab Work Order:** 08-9413  
**Lab Sample ID:** 08-9413-02A  
**Sample Matrix:** Water

**AROMATIC VOLATILE ORGANICS**

**Method:** SW8021B

**Prep Method:** SW5030B

**Date Prepared:** 12/11/08

**Lab File ID:** TVB41211\040R

**Dilution Factor:** 1

**Date Analyzed:** 12/12/08

**Method Blank:** MB4121108-3

Analytes	CAS Number	Result	LQL	Units
Benzene	71-43-2	U	1.0	µg/L
Toluene	108-88-3	U	2.0	µg/L
Ethylbenzene	100-41-4	U	2.0	µg/L
m,p-Xylene	1330-20-7	U	2.0	µg/L
o-Xylene	95-47-6	U	2.0	µg/L
Surr: 1,2,4-Trichlorobenzene (S)	120-82-1	84	<b>QC Limits:</b> 60-140	%REC

VM

Analyst

27

Approved

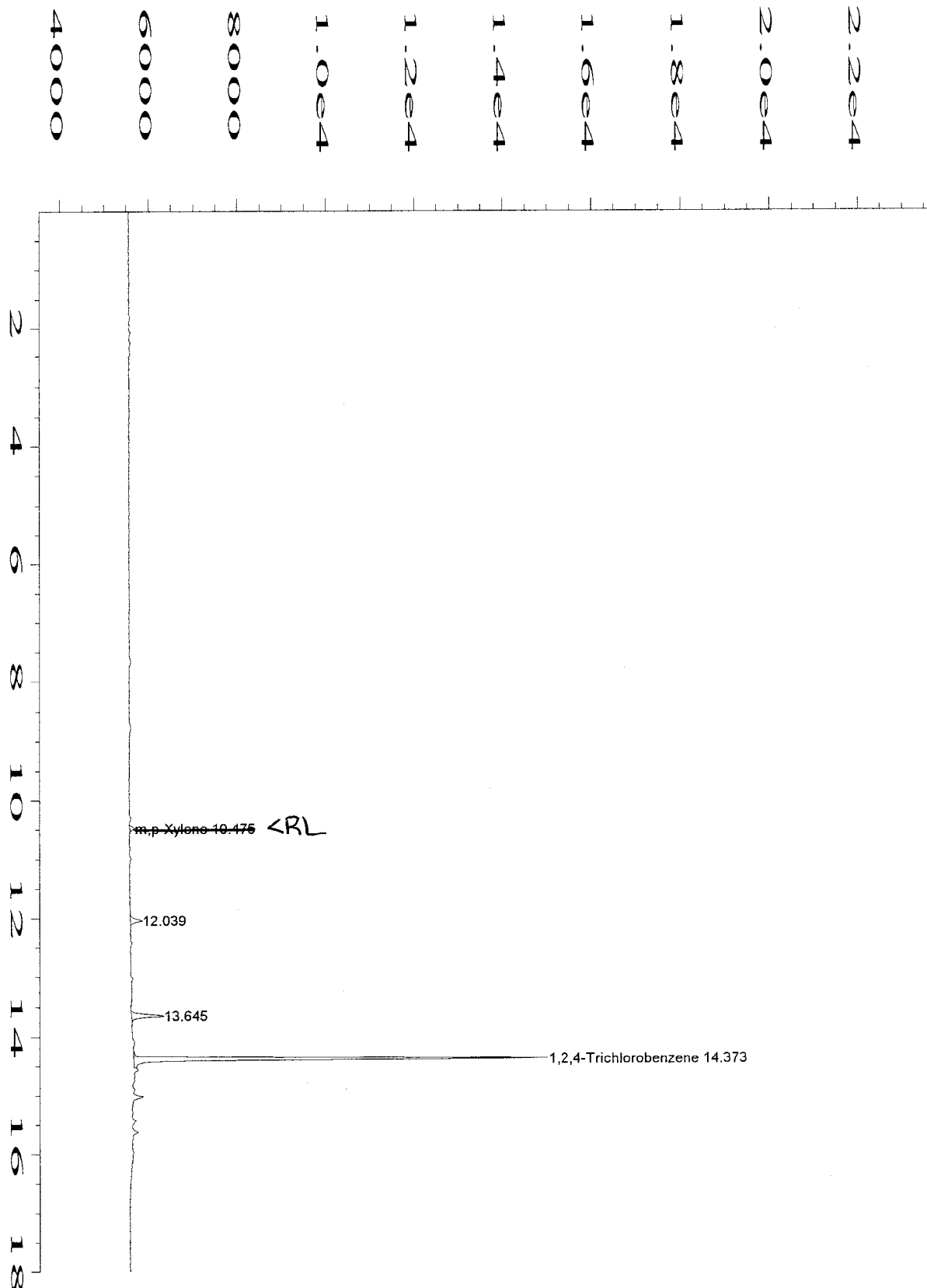
**Notes:** Total Xylenes consist of three isomers, two of which co-elute. The Xylene RL is for a single peak. Confirmation analysis was not performed.

**Qualifiers:** B - Analyte detected in the associated Method Blank, value not subtracted from result  
 E - Extrapolated value. Value exceeds calibration range  
 II - Sample analysis exceeded analytical holding time  
 J - Indicates an estimated value when the compound is detected, but is below the LQL  
 S - Spike Recovery outside accepted limits  
 U - Compound analyzed for but not detected  
 X - See case narrative  
 \* - Value exceeded the Maximum Contamination Level (MCL), TCLP limit, or if compound is undetected, LQL exceeds MCL.

**Definitions:** LQL - Lower Quantitation Limit  
 Surr - Surrogate

Print Date: 12/12/08





Data File Name	: C:\HPCHEM\1\DATA\TVB41211\040R0101.D	Page Number	: 1
Operator	: Virginia Meyer	Vial Number	: 40
Instrument	: TVHBTEX4	Injection Number	: 1
Sample Name	: 08-9413-02A	Sequence Line	: 1
Run Time Bar Code:		Instrument Method:	TS40717M.MTH
Acquired on	: 12 Dec 08 06:18 AM	Analysis Method	: BS41205.MTH
Report Created on:	12 Dec 08 06:37 AM	Sample Amount	: 0
Last Recalib on	: 08 DEC 08 07:34 AM	ISTD Amount	:
Multiplier	: 1		
Sample Info	: SAMP		
	DF=1		

VM 12 12 08

# Evergreen Analytical, Inc.

4036 Youngfield Street, Wheat Ridge, Colorado 80033-3862  
(303) 425-6021

Client Sample ID: MW7  
Client Project ID: 008-2067  
Date Collected: 12/9/08  
Date Received: 12/10/08

Lab Work Order 08-9413  
Lab Sample ID: 08-9413-03A  
Sample Matrix: Water

## AROMATIC VOLATILE ORGANICS

Method: SW8021B

Prep Method: SW5030B

Date Prepared: 12/11/08

Lab File ID: TVB41211\043R

Dilution Factor: 1

Date Analyzed: 12/12/08

Method Blank: MB4121108-3

Analytes	CAS Number	Result	LQL	Units
Benzene	71-43-2	U	1.0	µg/L
Toluene	108-88-3	U	2.0	µg/L
Ethylbenzene	100-41-4	U	2.0	µg/L
m,p-Xylene	1330-20-7	U	2.0	µg/L
o-Xylene	95-47-6	U	2.0	µg/L
Surr: 1,2,4-Trichlorobenzene (S)	120-82-1	93	QC Limits: 60-140	%REC

VM

Analyst

27

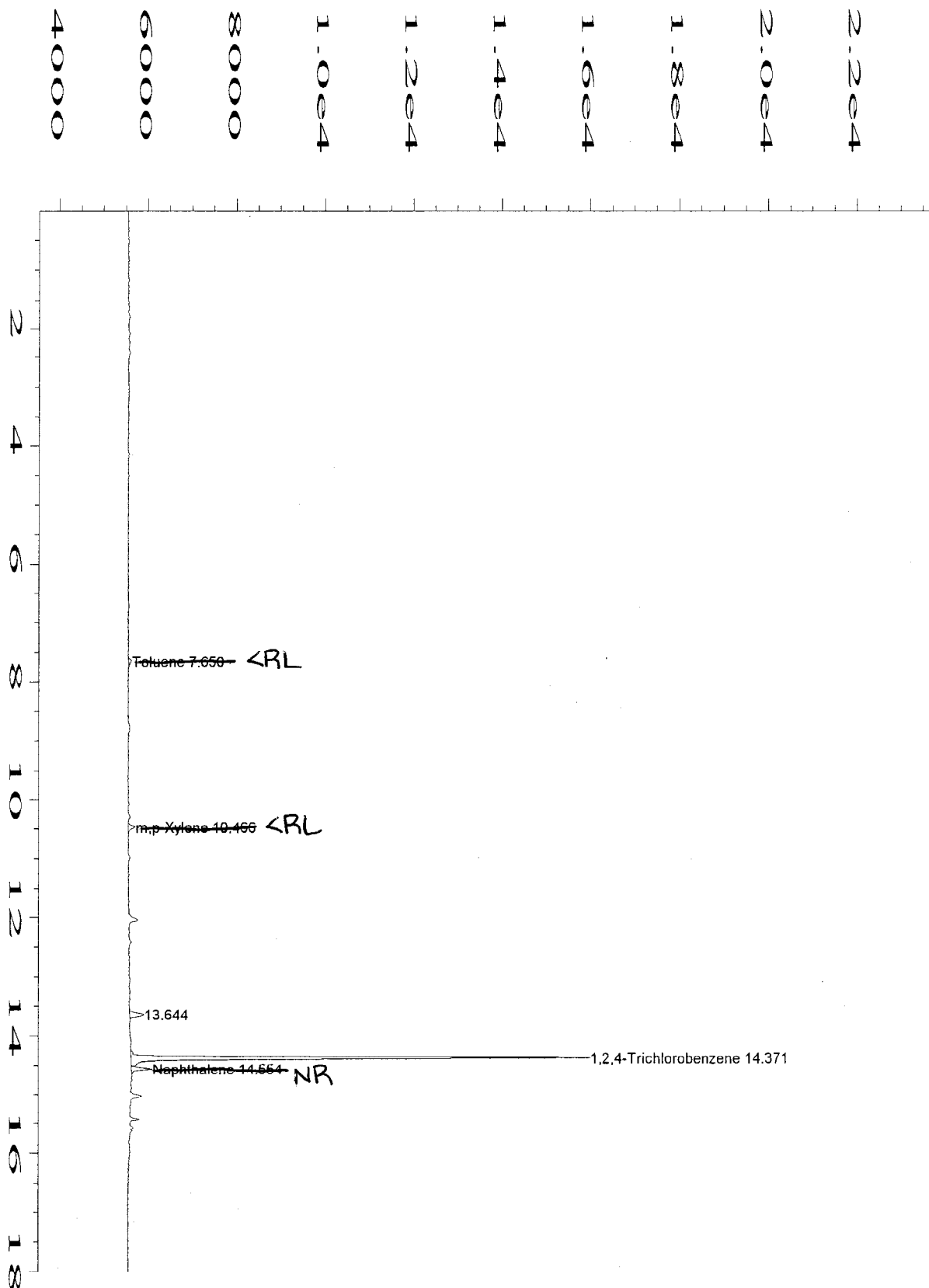
Approved

Notes: Total Xylenes consist of three isomers, two of which co-elute. The Xylene RL is for a single peak. Confirmation analysis was not performed.

**Qualifiers:** B - Analyte detected in the associated Method Blank, value not subtracted from result  
E - Extrapolated value. Value exceeds calibration range  
H - Sample analysis exceeded analytical holding time  
J - Indicates an estimated value when the compound is detected, but is below the LQL  
S - Spike Recovery outside accepted limits  
U - Compound analyzed for but not detected  
X - See case narrative  
\* - Value exceeded the Maximum Contamination Level (MCL), TCLP limit, or if compound is undetected, LQL exceeds MCL.

**Definitions:** LQL - Lower Quantitation Limit  
Surr - Surrogate

Print Date: 12/12/08



Data File Name : C:\HPCHEM\1\DATA\TVB41211\043R0101.D  
 Operator : Virginia Meyer  
 Instrument : TVHBTEX4  
 Sample Name : 08-9413-03A  
 Run Time Bar Code:  
 Acquired on : 12 Dec 08 08:02 AM  
 Report Created on: 12 Dec 08 08:21 AM  
 Last Recalib on : 08 DEC 08 07:34 AM  
 Multiplier : 1  
 Sample Info : SAMP  
 DF=1

Page Number : 1  
 Vial Number : 43  
 Injection Number : 1  
 Sequence Line : 1  
 Instrument Method: TS40717M.MTH  
 Analysis Method : BS41205.MTH  
 Sample Amount : 0  
 ISTD Amount :

VM 12 12 08

# Evergreen Analytical, Inc.

4036 Youngfield Street, Wheat Ridge, Colorado 80033-3862  
(303) 425-6021

Client Sample ID: MW4  
Client Project ID: 008-2067  
Date Collected: 12/9/08  
Date Received: 12/10/08

Lab Work Order 08-9413  
Lab Sample ID: 08-9413-04A  
Sample Matrix: Water

## AROMATIC VOLATILE ORGANICS

Method: SW8021B

Prep Method: SW5030B

Date Prepared: 12/11/08

Lab File ID: TVB41211\044R

Dilution Factor: 1

Date Analyzed: 12/12/08

Method Blank: MB4121108-3

Analytes	CAS Number	Result	LQL	Units
Benzene	71-43-2	100	1.0	µg/L
Toluene	108-88-3	U	2.0	µg/L
Ethylbenzene	100-41-4	U	2.0	µg/L
m,p-Xylene	1330-20-7	25	2.0	µg/L
o-Xylene	95-47-6	3.4	2.0	µg/L
Surr: 1,2,4-Trichlorobenzene (S)	120-82-1	95	QC Limits: 60-140	%REC

VM

Analyst

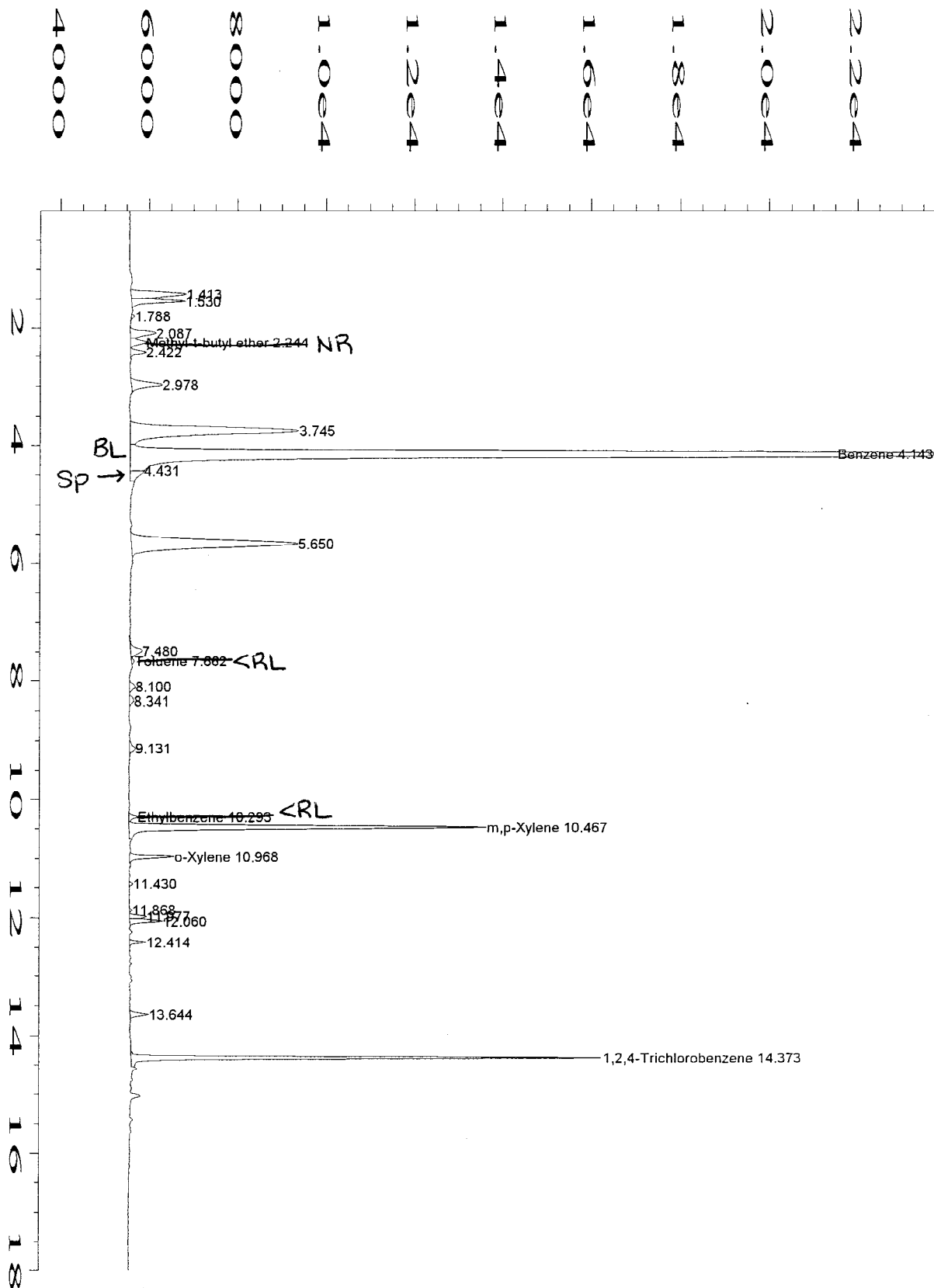
Approved

Notes: Total Xylenes consist of three isomers, two of which co-elute. The Xylene RL is for a single peak. Confirmation analysis was not performed.

**Qualifiers:** B - Analyte detected in the associated Method Blank, value not subtracted from result  
E - Extrapolated value. Value exceeds calibration range  
H - Sample analysis exceeded analytical holding time  
J - Indicates an estimated value when the compound is detected, but is below the LQL  
S - Spike Recovery outside accepted limits  
U - Compound analyzed for but not detected  
X - See case narrative  
\* - Value exceeded the Maximum Contamination Level (MCL), TCLP limit, or if compound is undetected, LQL exceeds MCL.

**Definitions:** LQL - Lower Quantitation Limit  
Surr - Surrogate

Print Date: 12/12/08



user modified

Data File Name	: C:\HPCHEM\1\DATA\TVB41211\044R0101.D	Page Number	: 1
Operator	: Virginia Meyer	Vial Number	: 44
Instrument	: TVHBTEX4	Injection Number	: 1
Sample Name	: 08-9413-04A IX	Sequence Line	: 1
Run Time Bar Code:		Instrument Method:	TS40717M.MTH
Acquired on	: 12 Dec 08 08:37 AM	Analysis Method	: BS41205.MTH
Report Created on:	12 Dec 08 09:38 AM	Sample Amount	: 0
Last Recalib on	: 08 DEC 08 07:34 AM	ISTD Amount	:
Multiplier	: 1		

VM 12 12 08

# Evergreen Analytical, Inc.

4036 Youngfield Street, Wheat Ridge, Colorado 80033-3862  
(303) 425-6021

Client Sample ID: MW6  
Client Project ID: 008-2067  
Date Collected: 12/9/08  
Date Received: 12/10/08

Lab Work Order 08-9413  
Lab Sample ID: 08-9413-05A  
Sample Matrix: Water

## AROMATIC VOLATILE ORGANICS

Method: SW8021B

Prep Method: SW5030B

Date Prepared: 12/11/08

Lab File ID: TVB41211\045R

Dilution Factor: 1

Date Analyzed: 12/12/08

Method Blank: MB4121108-3

Analytes	CAS Number	Result	LQL	Units
Benzene	71-43-2	U	1.0	µg/L
Toluene	108-88-3	U	2.0	µg/L
Ethylbenzene	100-41-4	U	2.0	µg/L
m,p-Xylene	1330-20-7	U	2.0	µg/L
o-Xylene	95-47-6	U	2.0	µg/L
Surr: 1,2,4-Trichlorobenzene (S)	120-82-1	101	QC Limits: 60-140	%REC

VM

Analyst

87

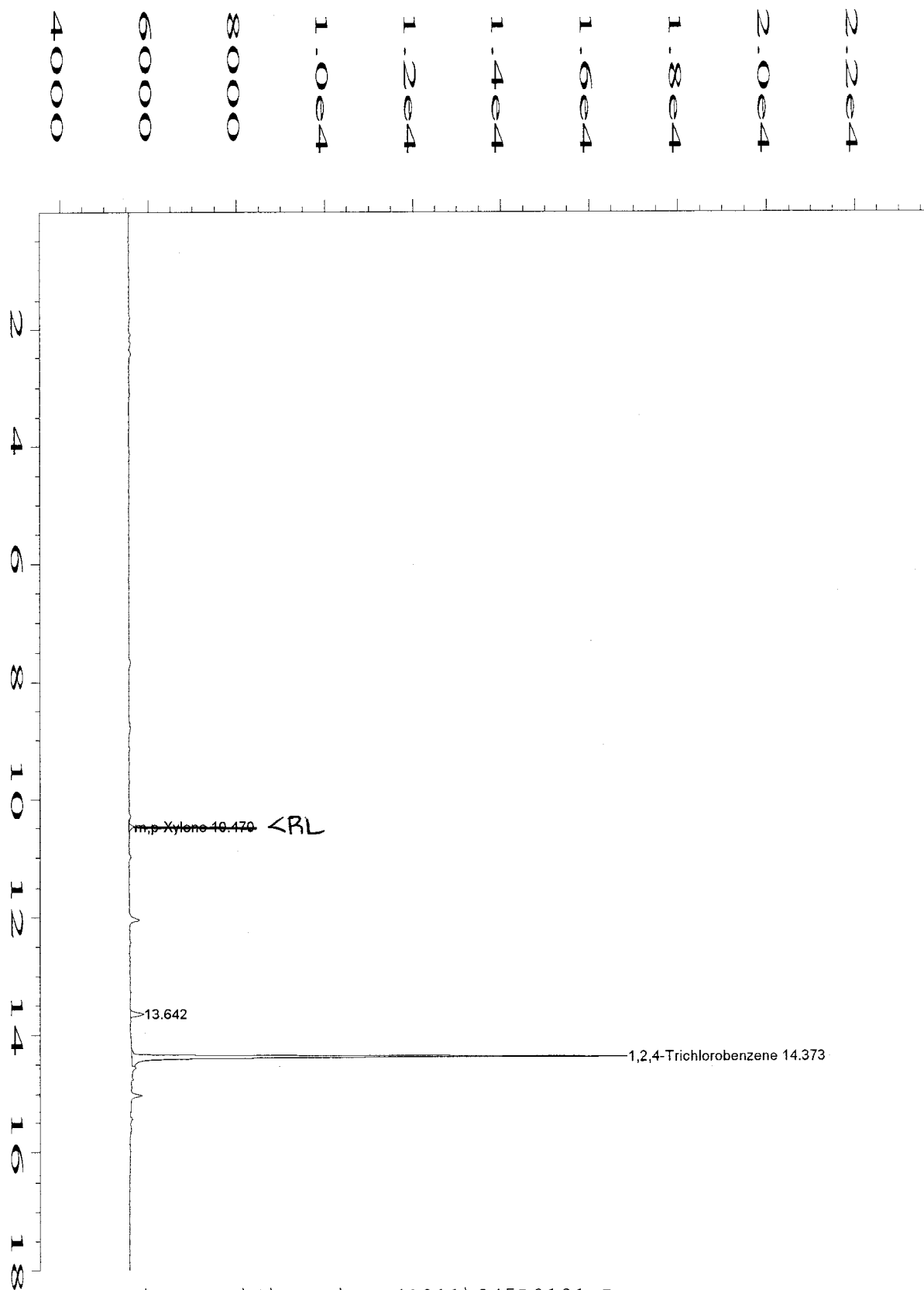
Approved

Notes: Total Xylenes consist of three isomers, two of which co-elute. The Xylene RL is for a single peak. Confirmation analysis was not performed.

**Qualifiers:** B - Analyte detected in the associated Method Blank, value not subtracted from result  
E - Extrapolated value. Value exceeds calibration range  
H - Sample analysis exceeded analytical holding time  
J - Indicates an estimated value when the compound is detected, but is below the LQL  
S - Spike Recovery outside accepted limits  
U - Compound analyzed for but not detected  
X - See case narrative  
\* - Value exceeded the Maximum Contamination Level (MCL), TCLP limit, or if compound is undetected, LQL exceeds MCL.

**Definitions:** LQL - Lower Quantitation Limit  
Surr - Surrogate

Print Date: 12/12/08



Data File Name : C:\HPCHEM\1\DATA\TVB41211\045R0101.D

Operator : Virginia Meyer

Instrument : TVHBTEX4

Sample Name : 08-9413-05A

Run Time Bar Code:

Acquired on : 12 Dec 08 09:12 AM

Report Created on: 12 Dec 08 09:30 AM

Last Recalib on : 08 DEC 08 07:34 AM

Multiplier : 1

Sample Info : SAMP

DF=1

Page Number : 1

Vial Number : 45

Injection Number : 1

Sequence Line : 1

Instrument Method: TS40717M.MTH

Analysis Method : BS41205.MTH

Sample Amount : 0

ISTD Amount :

VM 12 12 08

# Evergreen Analytical, Inc.

4036 Youngfield Street, Wheat Ridge, Colorado 80033-3862  
(303) 425-6021

Client Sample ID: MW1  
Client Project ID: 008-2067  
Date Collected: 12/9/08  
Date Received: 12/10/08

Lab Work Order 08-9413  
Lab Sample ID: 08-9413-06A  
Sample Matrix: Water

## AROMATIC VOLATILE ORGANICS

Method: SW8021B

Prep Method: SW5030B

Date Prepared: 12/11/08

Lab File ID: TVB41211\048R

Dilution Factor: 1

Date Analyzed: 12/12/08

Method Blank: MB4121108-3

Analytes	CAS Number	Result	LQL	Units
Benzene	71-43-2	U	1.0	µg/L
Toluene	108-88-3	U	2.0	µg/L
Ethylbenzene	100-41-4	U	2.0	µg/L
m,p-Xylene	1330-20-7	U	2.0	µg/L
o-Xylene	95-47-6	U	2.0	µg/L
Surr: 1,2,4-Trichlorobenzene (S)	120-82-1	94	QC Limits: 60-140	%REC

VM

Analyst

Approved

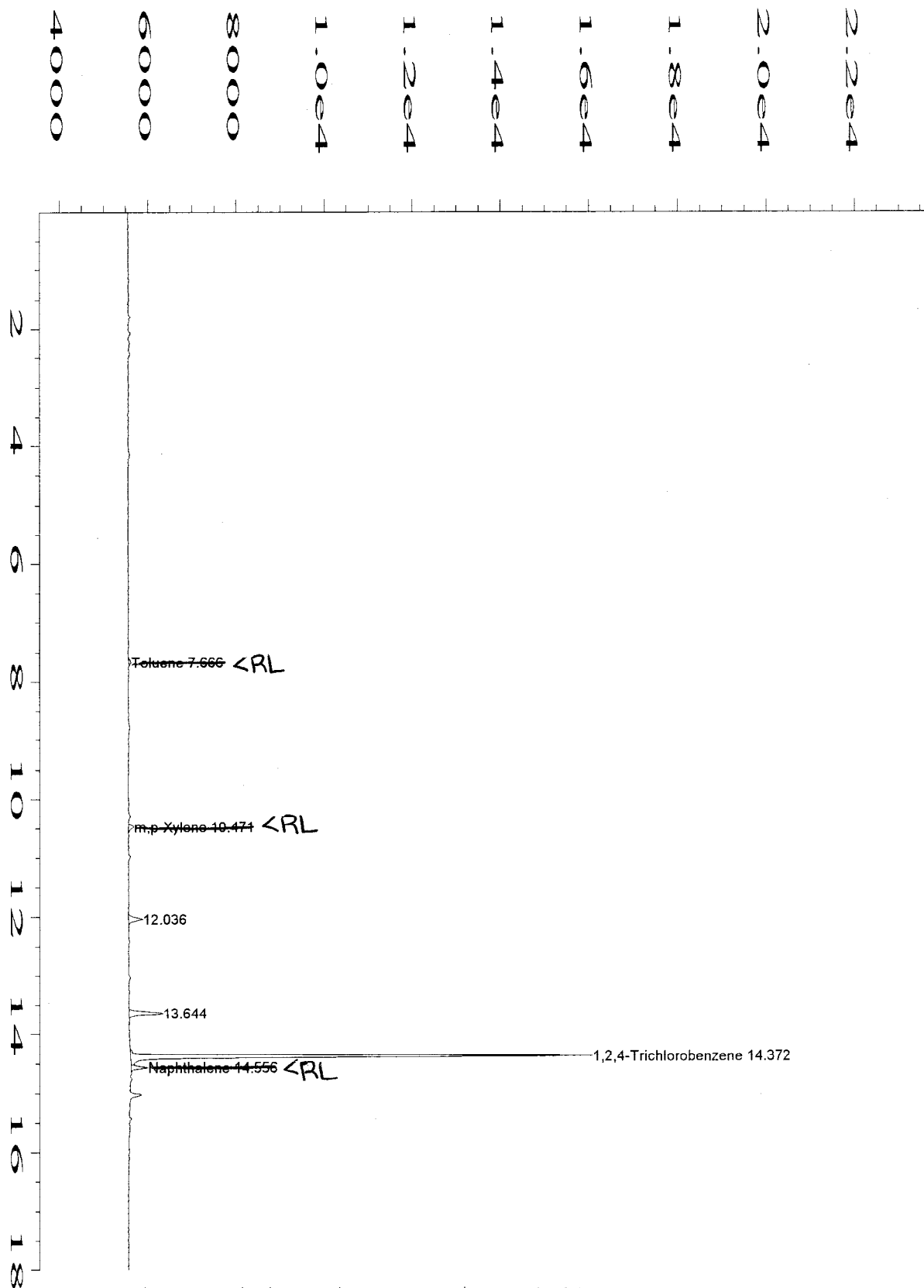
Notes: Total Xylenes consist of three isomers, two of which co-elute. The Xylene RL is for a single peak. Confirmation analysis was not performed.

**Qualifiers:** B - Analyte detected in the associated Method Blank, value not subtracted from result  
E - Extrapolated value. Value exceeds calibration range  
H - Sample analysis exceeded analytical holding time  
J - Indicates an estimated value when the compound is detected, but is below the LQL  
S - Spike Recovery outside accepted limits  
U - Compound analyzed for but not detected  
X - See case narrative  
\* - Value exceeded the Maximum Contamination Level (MCL), TCLP limit, or if compound is undetected, LQL exceeds MCL.

**Definitions:** LQL - Lower Quantitation Limit  
Surr - Surrogate

Print Date: 12/12/08





Data File Name	: C:\HPCHEM\1\DATA\TVB41211\048R0101.D	Page Number	: 1
Operator	: Virginia Meyer	Vial Number	: 48
Instrument	: TVHBTEX4	Injection Number	: 1
Sample Name	: 08-9413-06A	Sequence Line	: 1
Run Time Bar Code:		Instrument Method:	TS40717M.MTH
Acquired on	: 12 Dec 08 10:56 AM	Analysis Method	: BS41205.MTH
Report Created on:	12 Dec 08 11:14 AM	Sample Amount	: 0
Last Recalib on	: 08 DEC 08 07:34 AM	ISTD Amount	:
Multiplier	: 1		
Sample Info	: SAMP		
	DF=1		

VM 12.12.08

# Evergreen Analytical, Inc.

4036 Youngfield Street, Wheat Ridge, Colorado 80033-3862  
(303) 425-6021

Client Sample ID: MW26D  
Client Project ID: 008-2067  
Date Collected: 12/9/08  
Date Received: 12/10/08

Lab Work Order 08-9413  
Lab Sample ID: 08-9413-07A  
Sample Matrix: Water

## AROMATIC VOLATILE ORGANICS

Method: SW8021B

Prep Method: SW5030B

Date Prepared: 12/11/08

Lab File ID: TVB41211\049R

Dilution Factor: 1

Date Analyzed: 12/12/08

Method Blank: MB4121108-3

Analytes	CAS Number	Result	LQL	Units
Benzene	71-43-2	U	1.0	µg/L
Toluene	108-88-3	U	2.0	µg/L
Ethylbenzene	100-41-4	U	2.0	µg/L
m,p-Xylene	1330-20-7	U	2.0	µg/L
o-Xylene	95-47-6	U	2.0	µg/L
Surr: 1,2,4-Trichlorobenzene (S)	120-82-1	92	QC Limits: 60-140	%REC

VM

Analyst

27

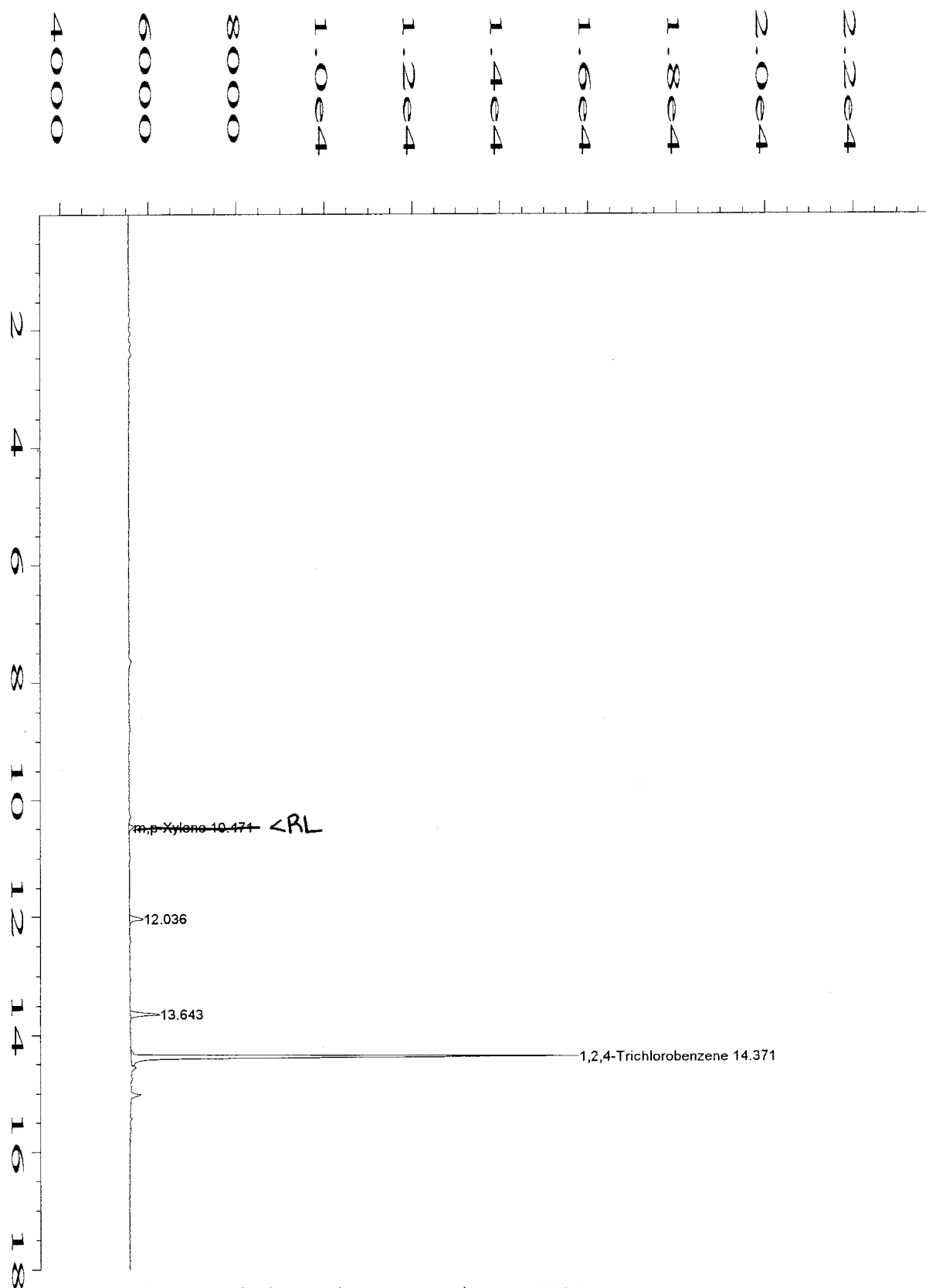
Approved

Notes: Total Xylenes consist of three isomers, two of which co-elute. The Xylene RL is for a single peak. Confirmation analysis was not performed.

**Qualifiers:** B - Analyte detected in the associated Method Blank, value not subtracted from result  
E - Extrapolated value. Value exceeds calibration range  
H - Sample analysis exceeded analytical holding time  
J - Indicates an estimated value when the compound is detected, but is below the LQL  
S - Spike Recovery outside accepted limits  
U - Compound analyzed for but not detected  
X - See case narrative  
\* - Value exceeded the Maximum Contamination Level (MCL), TCLP limit, or if compound is undetected, LQL exceeds MCL.

**Definitions:** LQL - Lower Quantitation Limit  
Surr - Surrogate

Print Date: 12/12/08



Data File Name	: C:\HPCHEM\1\DATA\TVB41211\049R0101.D	Page Number	: 1
Operator	: Virginia Meyer	Vial Number	: 49
Instrument	: TVHBTEX4	Injection Number	: 1
Sample Name	: 08-9413-07A	Sequence Line	: 1
Run Time Bar Code:		Instrument Method:	TS40717M.MTH
Acquired on	: 12 Dec 08 11:30 AM	Analysis Method	: BS41205.MTH
Report Created on:	12 Dec 08 11:49 AM	Sample Amount	: 0
Last Recalib on	: 08 DEC 08 07:34 AM	ISTD Amount	:
Multiplier	: 1		
Sample Info	: SAMP		
	DF=1		

VM 12-12-08

**Evergreen Analytical, Inc.**  
 4036 Youngfield Street, Wheat Ridge, Colorado 80033-3862  
 (303) 425-6021

Client Project ID 008-2067

Lab Order: 08-9413

Units: mg/L

**RSKSOP-175M Headspace  
 Methane**

Method: RSKSOP175M

Prep Method: RSKSOP175M

Lab ID	Client ID	Matrix	Date Received	Collection Date	Date Prepared	Date Analyzed	Results	LQL	DF
08-9413-01B	MW17	Water	12/10/08	12/9/08	12/11/08	12/11/08	1.9	0.040	50
08-9413-02B	MW26	Water	12/10/08	12/9/08	12/11/08	12/11/08	0.73	0.0080	10
08-9413-03B	MW7	Water	12/10/08	12/9/08	12/11/08	12/11/08	0.0032	0.00080	1
08-9413-04B	MW4	Water	12/10/08	12/9/08	12/11/08	12/11/08	8.6	0.040	50
08-9413-05B	MW6	Water	12/10/08	12/9/08	12/11/08	12/11/08	0.0092	0.00080	1
08-9413-06B	MW1	Water	12/10/08	12/9/08	12/11/08	12/11/08	0.18	0.00080	1
08-9413-07B	MW26D	Water	12/10/08	12/9/08	12/11/08	12/11/08	0.79	0.0080	10

Comments:

VM

\_\_\_\_\_  
 Analyst

  
 Approved

**Qualifiers:** J - Indicates an estimated value when the compound is detected, but is below the LQL  
 H - Sample analysis exceeded analytical holding time  
 U - Compound analyzed for but not detected  
 X - See case narrative  
 \*-Value exceeds Maximum Contamination Level(MCL), TCLP limit, or if compound is undetected, LQL exceeds MCL.

**Definitions:** DF - Dilution Factor  
 LQL - Lower Quantitation Limit

Print Date: 12/11/08

# Evergreen Analytical, Inc.

4036 Youngfield Street, Wheat Ridge, Colorado 80033-3862  
(303) 425-6021

Client Project ID 008-2067

Lab Order: 08-9413  
Units: pH Units

## E150.1 pH pH

Method: E150.1

Prep Method: E150.1

Lab ID	Client ID	Matrix	Date Received	Collection Date	Date Prepared	Date Analyzed	Results	LQL	DF
08-9413-01C	MW17	Water	12/10/08	12/9/08 1400	12/10/08	12/10/08 1140	7.55	1.00	1
08-9413-02C	MW26	Water	12/10/08	12/9/08 1245	12/10/08	12/10/08 1140	7.27	1.00	1
08-9413-03C	MW7	Water	12/10/08	12/9/08 1325	12/10/08	12/10/08 1140	7.38	1.00	1
08-9413-04C	MW4	Water	12/10/08	12/9/08 1350	12/10/08	12/10/08 1140	7.68	1.00	1
08-9413-05C	MW6	Water	12/10/08	12/9/08 1315	12/10/08	12/10/08 1140	7.17	1.00	1
08-9413-06C	MW1	Water	12/10/08	12/9/08 1435	12/10/08	12/10/08 1140	7.46	1.00	1
08-9413-07C	MW26D	Water	12/10/08	12/9/08 1245	12/10/08	12/10/08 1140	7.31	1.00	1

Comments:

  
\_\_\_\_\_  
Analyst

  
\_\_\_\_\_  
Approved

**Qualifiers:** J - Indicates an estimated value when the compound is detected, but is below the LQL  
H - Sample analysis exceeded analytical holding time  
U - Compound analyzed for but not detected  
X - See case narrative  
\*-Value exceeds Maximum Contamination Level(MCL), TCLP limit, or if compound is undetected, LQL exceeds MCL.

**Definitions:** DF - Dilution Factor  
LQL - Lower Quantitation Limit

Print Date: 12/19/08

**Evergreen Analytical, Inc.**

4036 Youngfield Street, Wheat Ridge, Colorado 80033-3862  
(303) 425-6021

Client Project ID 008-2067

Lab Order: 08-9413

Units:  $\mu\text{mhos/cm}$ 

**Specific Conductance @ 25°C**  
**Specific Conductance**

Method: SM2510 B

Prep Method: SM2510 B

Lab ID	Client ID	Matrix	Date Received	Collection Date	Date Prepared	Date Analyzed	Results	LQL	DF
08-9413-01C	MW17	Water	12/10/08	12/9/08	12/11/08	12/11/08	1140	1.00	1
08-9413-02C	MW26	Water	12/10/08	12/9/08	12/11/08	12/11/08	743	1.00	1
08-9413-03C	MW7	Water	12/10/08	12/9/08	12/11/08	12/11/08	1110	1.00	1
08-9413-04C	MW4	Water	12/10/08	12/9/08	12/11/08	12/11/08	723	1.00	1
08-9413-05C	MW6	Water	12/10/08	12/9/08	12/11/08	12/11/08	1040	1.00	1
08-9413-06C	MW1	Water	12/10/08	12/9/08	12/11/08	12/11/08	1120	1.00	1
08-9413-07C	MW26D	Water	12/10/08	12/9/08	12/11/08	12/11/08	748	1.00	1

Comments:

  
\_\_\_\_\_  
Analyst

  
\_\_\_\_\_  
Approved

**Qualifiers:** J - Indicates an estimated value when the compound is detected, but is below the LQL  
H - Sample analysis exceeded analytical holding time  
U - Compound analyzed for but not detected  
X - See case narrative  
\*-Value exceeds Maximum Contamination Level(MCL), TCLP limit, or if compound is undetected, LQL exceeds MCL.

**Definitions:** DF - Dilution Factor  
LQL - Lower Quantitation Limit

Print Date: 12/19/08

**Evergreen Analytical, Inc.**  
 4036 Youngfield Street, Wheat Ridge, Colorado 80033-3862  
 (303) 425-6021

Client Project ID 008-2067

Lab Order: 08-9413

Units: mg/L

**Total Dissolved Solids (TDS)****Total Dissolved Solids****Method: SM 2540C****Prep Method: SM 2540C**

Lab ID	Client ID	Matrix	Date Received	Collection Date	Date Prepared	Date Analyzed	Results	LQL	DF
08-9413-01C	MW17	Water	12/10/08	12/9/08	12/15/08	12/15/08	798	10.0	1
08-9413-02C	MW26	Water	12/10/08	12/9/08	12/15/08	12/15/08	504	10.0	1
08-9413-03C	MW7	Water	12/10/08	12/9/08	12/15/08	12/15/08	774	10.0	1
08-9413-04C	MW4	Water	12/10/08	12/9/08	12/15/08	12/15/08	484	10.0	1
08-9413-05C	MW6	Water	12/10/08	12/9/08	12/15/08	12/15/08	714	10.0	1
08-9413-06C	MW1	Water	12/10/08	12/9/08	12/15/08	12/15/08	756	10.0	1
08-9413-07C	MW26D	Water	12/10/08	12/9/08	12/15/08	12/15/08	507	10.0	1

**Comments:**

  
 Analyst

  
 Approved

**Qualifiers:** J - Indicates an estimated value when the compound is detected, but is below the LQL  
 H - Sample analysis exceeded analytical holding time  
 U - Compound analyzed for but not detected  
 X - See case narrative  
 \*-Value exceeds Maximum Contamination Level(MCL), TCLP limit, or if compound is undetected, LQL exceeds MCL.

**Definitions:** DF - Dilution Factor  
 LQL - Lower Quantitation Limit

Print Date: 12/19/08

030

**Evergreen Analytical, Inc.**  
4036 Youngfield Street, Wheat Ridge, Colorado 80033-3862  
(303) 425-6021

Client Project ID 008-2067  
Date Received: 12/10/08

Lab Order: 08-9413  
Date Prepared: 12/12/08  
Units: mg/L

**Dissolved Metals  
Sodium**

Method: SW6010B

Prep Method: E200.7/SW3010A

Lab ID	Client ID	Matrix	Date Collected	Date Analyzed	Results	LQL	DF
08-9413-01D	MW17	Water	12/9/08	12/13/08	260 B	0.40	1
08-9413-02D	MW26	Water	12/9/08	12/13/08	81 B	0.40	1
08-9413-03D	MW7	Water	12/9/08	12/13/08	150 B	0.40	1
08-9413-04D	MW4	Water	12/9/08	12/13/08	130 B	0.40	1
08-9413-05D	MW6	Water	12/9/08	12/13/08	130 B	0.40	1
08-9413-06D	MW1	Water	12/9/08	12/13/08	220 B	0.40	1
08-9413-07D	MW26D	Water	12/9/08	12/13/08	82 B	0.40	1



Analyst



Approved

**Qualifiers:** B - Analyte detected in the associated Method Blank, value not subtracted from result  
E - Extrapolated value. Value exceeds calibration range  
H - Sample analysis exceeded analytical holding time  
J - Indicates an estimated value when the compound is detected, but is below the LQL  
S - Spike Recovery outside accepted limits  
U - Compound analyzed for but not detected  
X - See case narrative  
\* - Value exceeded the Maximum Contamination Level (MCL), TCLP limit, or if compound is undetected, LQL exceeds MCL.

**Definitions:** DF - Dilution Factor  
PF - Prep Factor  
LQL - Lower Quantitation Limit

Print Date: 12/19/2008



## **QUALITY ASSURANCE REPORTS**

**METHOD BLANKS (MB)**

**LABORATORY CONTROL SPIKES (LCS)**

**MATRIX SPIKES (MS/MSD)\***

**DUPLICATES (DUP)\***

\* **For Metals or Wet Chemistry analyses: only included if requested.**

Work Order: 08-9413  
Client Project ID: 008-2067

## ANALYTICAL QC SUMMARY REPORT

BatchID: R43992-3

Sample ID: MB4121108-3	SampType: MBLK	TestCode: 8021_W	Run ID: TVHBTEX4_081211A	Prep Date: 12/11/08	Units: µg/L						
	Batch ID: R43992-3	TestNo: SW8021B	FileID: TVB41211037R	Analysis Date: 12/12/08	SeqNo: 780089						
Analyte	Result	LQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	U	1.0									
Toluene	U	2.0									
Ethylbenzene	U	2.0									
m,p-Xylene	U	2.0									
o-Xylene	U	2.0									
Surr: 1,2,4-Trichlorobenzene (S)	102.9	0	100	0	103	60	140	0	0		

Sample ID: LCS4121108-3	SampType: LCS	TestCode: 8021_W	Run ID: TVHBTEX4_081211A	Prep Date: 12/11/08	Units: µg/L						
	Batch ID: R43992-3	TestNo: SW8021B	FileID: TVB41211038R	Analysis Date: 12/12/08	SeqNo: 780090						
Analyte	Result	LQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	26.08	1.0	25.5	0	102	70	130	0	0		
Toluene	192.9	2.0	183.6	0	105	70	130	0	0		
Ethylbenzene	36.01	2.0	36.8	0	97.9	70	130	0	0		
m,p-Xylene	142.1	2.0	136.3	0	104	70	130	0	0		
o-Xylene	57.72	2.0	57.2	0	101	70	130	0	0		
Surr: 1,2,4-Trichlorobenzene (S)	108.9	0	100	0	109	60	140	0	0		

Sample ID: 08-9413-02AMS	SampType: MS	TestCode: 8021_W	Run ID: TVHBTEX4_081211A	Prep Date: 12/11/08	Units: µg/L						
Client ID: MW26	Batch ID: R43992-3	TestNo: SW8021B	FileID: TVB41211041R	Analysis Date: 12/12/08	SeqNo: 780093						
Analyte	Result	LQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	26.04	1.0	25.5	0	102	70	130	0	0		
Toluene	199.2	2.0	183.6	0	108	70	130	0	0		
Ethylbenzene	37.03	2.0	36.8	0	101	62	130	0	0		
m,p-Xylene	145.7	2.0	136.3	0	107	70	134	0	0		
o-Xylene	57.83	2.0	57.2	0	101	63	130	0	0		
Surr: 1,2,4-Trichlorobenzene (S)	110.7	0	100	0	111	60	140	0	0		

Qualifiers:  
U - Not detected at or above the Reporting Limit  
J - Analyte detected below quantitation limits  
S - Spike Recovery outside acceptance limits  
E - Extrapolated value, value exceeds calibration range.R - RPD outside acceptance limits  
B - Analyte detected in the associated Method Blank  
H - Prep or analytical holding time exceeded  
X - See case narrative

Work Order: 08-9413  
Client Project ID: 008-2067

## ANALYTICAL QC SUMMARY REPORT

BatchID: R43992-3

Sample ID: 08-9413-02AMSD	SampType: MSD	TestCode: 8021_W	Run ID: TVHBTEX4_081211A	Prep Date: 12/11/08	Units: µg/L						
Client ID: MW26	Batch ID: R43992-3	TestNo: SW8021B	FileID: TVB41211\042R	Analysis Date: 12/12/08	SeqNo: 780094						
Analyte	Result	LQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	26.31	1.0	25.5	0	103	70	130	26.04	1.04	30	
Toluene	190.9	2.0	183.6	0	104	70	130	199.2	4.23	30	
Ethylbenzene	36.59	2.0	36.8	0	99.4	62	130	37.03	1.19	30	
m,p-Xylene	144.3	2.0	136.3	0	106	70	134	145.7	1.01	30	
o-Xylene	58.89	2.0	57.2	0	103	63	130	57.83	1.82	30	
Surr: 1,2,4-Trichlorobenzene (S)	111.6	0	100	0	112	60	140	0	0	0	

## Qualifiers:

U - Not detected at or above the Reporting Limit  
J - Analyte detected below quantitation limits  
S - Spike Recovery outside acceptance limits  
E - Extrapolated value, value exceeds calibration range.

R - RPD outside acceptance limits  
B - Analyte detected in the associated Method Blank  
H - Prep or analytical holding time exceeded  
X - See case narrative

Work Order: 08-9413  
Client Project ID: 008-2067

## ANALYTICAL QC SUMMARY REPORT

BatchID: GAS121108

Sample ID: <b>GB121108</b>	SampType: <b>MBLK</b>	TestCode: <b>MEEP_W</b>	Run ID: <b>FID4_081211A</b>	Prep Date: <b>12/11/08</b>	Units: <b>mg/L</b>						
	Batch ID: <b>GAS121108</b>	TestNo: <b>RSKSOP175</b>	FileID: <b>GAS121104</b>	Analysis Date: <b>12/11/08</b>	SeqNo: <b>779629</b>						
Analyte	Result	LQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Methane U 0.00080

Sample ID: <b>LCS121108</b>	SampType: <b>LCS</b>	TestCode: <b>MEEP_W</b>	Run ID: <b>FID4_081211A</b>	Prep Date: <b>12/11/08</b>	Units: <b>mg/L</b>						
	Batch ID: <b>GAS121108</b>	TestNo: <b>RSKSOP175</b>	FileID: <b>GAS121105</b>	Analysis Date: <b>12/11/08</b>	SeqNo: <b>779631</b>						
Analyte	Result	LQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Methane 0.5977 0.0080 0.5094 0 117 70 130 0 0

Sample ID: LCSD121108	SampType: LCSD	TestCode: MEEP_W	Run ID: FID4_081211A	Prep Date: 12/11/08	Units: mg/L						
	Batch ID: GAS121108	TestNo: RSKSOP175	FileID: GAS121106	Analysis Date: 12/11/08	SeqNo: 779633						
Analyte	Result	LQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Methane 0.5869 0.0080 0.5094 0 115 70 130 0.5903 0.577 30

Sample ID: 08-9413-05BMS	SampType: MS	TestCode: MEEP_W	Run ID: FID4_081211A	Prep Date: 12/11/08	Units: mg/L						
Client ID: MW6	Batch ID: GAS121108	TestNo: RSKSOP175	FileID: GAS121125	Analysis Date: 12/11/08	SeqNo: 779608						
Analyte	Result	LQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Methane 0.575 0.0080 0.5094 0.009248 111 70 130 0 0

Sample ID: 08-9413-05BMSD	SampType: MSD	TestCode: MEEP_W	Run ID: FID4_081211A	Prep Date: 12/11/08	Units: mg/L						
Client ID: MW6	Batch ID: GAS121108	TestNo: RSKSOP175	FileID: GAS121126	Analysis Date: 12/11/08	SeqNo: 779609						
Analyte	Result	LQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Methane 0.5712 0.0080 0.5094 0.009248 110 70 130 0.575 0.669 30

## Qualifiers:

U - Not detected at or above the Reporting Limit  
J - Analyte detected below quantitation limits  
S - Spike Recovery outside acceptance limits  
E - Extrapolated value, value exceeds calibration range.R - RPD outside acceptance limits  
B - Analyte detected in the associated Method Blank  
H - Prep or analytical holding time exceeded  
X - See case narrative

Work Order: 08-9413

Client Project ID: 008-2067

## ANALYTICAL QC SUMMARY REPORT

TestCode: COND\_W

Sample ID: LCS	SampType: LCS	TestCode: COND_W	Run ID: COND_081211A					Prep Date: 12/11/08	Units: µmhos/cm		
	Batch ID: R43980	TestNo: SM2510 B	FileID: 1					Analysis Date: 12/11/08	SeqNo: 779275		
Analyte	Result	LQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Specific Conductance	93.1	1.00	100.1	0	93	90	110	0	0		

Sample ID: LCS	SampType: LCS	TestCode: COND_W	Run ID: COND_081211A					Prep Date: 12/11/08	Units: µmhos/cm		
	Batch ID: R43980	TestNo: SM2510 B	FileID: 23					Analysis Date: 12/11/08	SeqNo: 779308		
Analyte	Result	LQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Specific Conductance	95.8	1.00	100.1	0	95.7	90	110	0	0		

## Qualifiers:

U - Not detected at or above the Reporting Limit  
J - Analyte detected below quantitation limits  
S - Spike Recovery outside acceptance limits  
E - Extrapolated value, value exceeds calibration range.

R - RPD outside acceptance limits  
B - Analyte detected in the associated Method Blank  
H - Prep or analytical holding time exceeded  
X - See case narrative

Work Order: 08-9413  
Client Project ID: 008-2067

## ANALYTICAL QC SUMMARY REPORT

TestCode: PH\_DW

Sample ID: LCS-R43957		SampType: LCS		TestCode: PH_DW		Run ID: PH_081210B		Prep Date: 12/10/08		Units: pH Units	
		Batch ID: R43957		TestNo: E150.1		FileID:		Analysis Date: 12/10/08		SeqNo: 778897	
Analyte	Result	LQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
pH	7.97	1.00	8	0	99.6	99.3	100.7	0	0		

**Qualifiers:**

U - Not detected at or above the Reporting Limit  
J - Analyte detected below quantitation limits  
S - Spike Recovery outside acceptance limits  
E - Extrapolated value, value exceeds calibration range.

R - RPD outside acceptance limits  
B - Analyte detected in the associated Method Blank  
H - Prep or analytical holding time exceeded  
X - See case narrative

Work Order: 08-9413  
Client Project ID: 008-2067

**ANALYTICAL QC SUMMARY REPORT****TestCode: TDS\_W**

Sample ID: <b>MBLK 121508</b>	SampType: <b>MBLK</b>	TestCode: <b>TDS_W</b>	Run ID: <b>ANALYTICAL BALANCE_081216B</b>	Prep Date: <b>12/15/08</b>	Units: <b>mg/L</b>
	Batch ID: <b>R44076</b>	TestNo: <b>SM 2540C</b>	FileID: <b>100</b>	Analysis Date: <b>12/15/08</b>	SeqNo: <b>781185</b>
Analyte	Result	LQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Total Dissolved Solids	U	10.0			

Sample ID: <b>LCS</b>	SampType: <b>LCS</b>	TestCode: <b>TDS_W</b>	Run ID: <b>ANALYTICAL BALANCE_081216B</b>	Prep Date: <b>12/15/08</b>	Units: <b>mg/L</b>
	Batch ID: <b>R44076</b>	TestNo: <b>SM 2540C</b>	FileID: <b>101</b>	Analysis Date: <b>12/15/08</b>	SeqNo: <b>781186</b>
Analyte	Result	LQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Total Dissolved Solids	392	10.0	400	0	98 90 110 0 0

**Qualifiers:**

U - Not detected at or above the Reporting Limit  
J - Analyte detected below quantitation limits  
S - Spike Recovery outside acceptance limits  
E - Extrapolated value, value exceeds calibration range.

R - RPD outside acceptance limits  
B - Analyte detected in the associated Method Blank  
H - Prep or analytical holding time exceeded  
X - See case narrative

Work Order: 08-9413  
Client Project ID: 008-2067

## ANALYTICAL QC SUMMARY REPORT

BatchID: 17522

Sample ID: MB-17522	SampType: MBLK	TestCode: 200.7_D	Run ID: ICP-OPTIMA 5300 DV_081212A	Prep Date: 12/12/2008	Units: mg/L						
	Batch ID: 17522	TestNo: E200.7, Rev.	FileID: 121208am	Analysis Date: 12/12/2008	SeqNo: 780431						
Analyte	Result	LQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Sodium	0.4924	0.400									

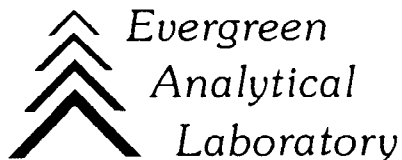
Sample ID: LCS-17522	SampType: LCS	TestCode: 200.7_D	Run ID: ICP-OPTIMA 5300 DV_081212A	Prep Date: 12/12/2008	Units: mg/L						
	Batch ID: 17522	TestNo: E200.7, Rev.	FileID: 121208am	Analysis Date: 12/12/2008	SeqNo: 780432						
Analyte	Result	LQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Sodium	10.36	0.400	10	0.4924	98.7	80	120	0	0		B

## Qualifiers:

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J - Analyte detected below quantitation limits  
S - Spike Recovery outside acceptance limits  
E - Extrapolated value, value exceeds calibration range.

R - RPD outside acceptance limits  
B - Analyte detected in the associated Method Blank  
H - Prep or analytical holding time exceeded  
X - See case narrative





December 23, 2008

Stuart Hall  
Cordilleran Compliance  
826 21 1/2 Road  
Grand Junction, CO 81505

Lab Work Order: 08-9413  
Client Project ID: 008-2067

Dear Stuart Hall:

Enclosed are the analytical results for the samples shown in the Laboratory Work Order Summary. The invoice is included with this report or has been mailed to another party as indicated on the chain of custody.

The enclosed data for testing performed at Evergreen Analytical Laboratory (EAL) have been reviewed for quality assurance. A case narrative is included to describe any anomalies associated with the samples or data.

EAL will dispose of all samples 44 days from the sample receipt date. If you want samples returned, please advise us by mail or fax as soon as possible.

A copy of this project report and supporting data will be retained for a period of five years unless we are otherwise advised by you. A document retrieval charge will apply.

Thank you for using the services of Evergreen Analytical. If you have any questions concerning the analytical data, please contact me. Please direct other questions to Client Services.

Sincerely,

A handwritten signature in cursive script, appearing to read "Carl Smits".

Kaprie Hollman/Carl Smits  
Quality Assurance

## WORK ORDER Summary

Evergreen Analytical, Inc.

08-9455

Rpt To: Stuart Hall  
Cordilleran Compliance  
826 21 1/2 Road  
Grand Junction, CO 81505  
(970) 263-7800

Email To: shall@oaconsulting.com

12/11/08 3:11:56 PM

Client Project ID: 008-2067

QC Level: LEVEL I

Comments: Add Sample Summary Report to all results packages.

Sample ID	Client Sample ID	Matrix	Collection Date	Date Received	Test Code	Test Name	Hold	MS	Date Due	Hold Time
08-9455-01A	DCS8	Water	12/10/08 1100	12/11/08	8021_W *	8021: BTEX	<input type="checkbox"/>	<input type="checkbox"/>	12/16/08	12/17/08
08-9455-01B	DCS8	Water	12/10/08 1100	12/11/08	COND_W	Specific Conductance @ 25°C	<input type="checkbox"/>	<input type="checkbox"/>	12/26/08	1/07/09
08-9455-01B	DCS8	Water	12/10/08 1100	12/11/08	PH_DW	E150.1 pH	<input type="checkbox"/>	<input type="checkbox"/>	12/26/08	12/11/08
08-9455-01B	DCS8	Water	12/10/08 1100	12/11/08	TDS_W	Total Dissolved Solids (TDS)	<input type="checkbox"/>	<input type="checkbox"/>	12/26/08	12/17/08
08-9455-01C	DCS8	Water	12/10/08 1100	12/11/08	MEEP_W *	RSK175M: Methane	<input type="checkbox"/>	<input type="checkbox"/>	12/26/08	12/17/08
08-9455-01D	DCS8	Water	12/10/08 1100	12/11/08	6010_D *	6010: Dissolved Metals	<input type="checkbox"/>	<input type="checkbox"/>	12/26/08	6/08/09
08-9455-02A	DCS7	Water	12/10/08 1115	12/11/08	8021_W *	8021: BTEX	<input type="checkbox"/>	<input type="checkbox"/>	12/16/08	12/17/08
08-9455-02B	DCS7	Water	12/10/08 1115	12/11/08	COND_W	Specific Conductance @ 25°C	<input type="checkbox"/>	<input type="checkbox"/>	12/26/08	1/07/09
08-9455-02B	DCS7	Water	12/10/08 1115	12/11/08	PH_DW	E150.1 pH	<input type="checkbox"/>	<input type="checkbox"/>	12/26/08	12/11/08
08-9455-02B	DCS7	Water	12/10/08 1115	12/11/08	TDS_W	Total Dissolved Solids (TDS)	<input type="checkbox"/>	<input type="checkbox"/>	12/26/08	12/17/08
08-9455-02C	DCS7	Water	12/10/08 1115	12/11/08	MEEP_W *	RSK175M: Methane	<input type="checkbox"/>	<input type="checkbox"/>	12/26/08	12/17/08
08-9455-02D	DCS7	Water	12/10/08 1115	12/11/08	6010_D *	6010: Dissolved Metals	<input type="checkbox"/>	<input type="checkbox"/>	12/26/08	6/08/09
08-9455-03A	DCS6	Water	12/10/08 1130	12/11/08	8021_W *	8021: BTEX	<input type="checkbox"/>	<input type="checkbox"/>	12/16/08	12/17/08
08-9455-03B	DCS6	Water	12/10/08 1130	12/11/08	COND_W	Specific Conductance @ 25°C	<input type="checkbox"/>	<input type="checkbox"/>	12/26/08	1/07/09
08-9455-03B	DCS6	Water	12/10/08 1130	12/11/08	PH_DW	E150.1 pH	<input type="checkbox"/>	<input type="checkbox"/>	12/26/08	12/11/08
08-9455-03B	DCS6	Water	12/10/08 1130	12/11/08	TDS_W	Total Dissolved Solids (TDS)	<input type="checkbox"/>	<input type="checkbox"/>	12/26/08	12/17/08
08-9455-03C	DCS6	Water	12/10/08 1130	12/11/08	MEEP_W *	RSK175M: Methane	<input type="checkbox"/>	<input type="checkbox"/>	12/26/08	12/17/08
08-9455-03D	DCS6	Water	12/10/08 1130	12/11/08	6010_D *	6010: Dissolved Metals	<input type="checkbox"/>	<input type="checkbox"/>	12/26/08	6/08/09
08-9455-04A	DCS3	Water	12/10/08 1200	12/11/08	8021_W *	8021: BTEX	<input type="checkbox"/>	<input type="checkbox"/>	12/16/08	12/17/08
08-9455-04B	DCS3	Water	12/10/08 1200	12/11/08	COND_W	Specific Conductance @ 25°C	<input type="checkbox"/>	<input type="checkbox"/>	12/26/08	1/07/09
08-9455-04B	DCS3	Water	12/10/08 1200	12/11/08	PH_DW	E150.1 pH	<input type="checkbox"/>	<input type="checkbox"/>	12/26/08	12/11/08

Definitions: \* - Test Code has a Select List

## WORK ORDER Summary

Evergreen Analytical, Inc.

08-9455

Rpt To: Stuart Hall

Email To: shall@oaconsulting.com

12/11/08 3:11:56 PM

Cordilleran Compliance

826 21 1/2 Road

Grand Junction, CO 81505

(970) 263-7800

Client Project ID: 008-2067

QC Level: LEVEL I

08-9455-04B	DCS3	Water	12/10/08 1200	12/11/08	TDS_W	Total Dissolved Solids (TDS)	<input type="checkbox"/>	<input type="checkbox"/>	12/26/08	12/17/08
08-9455-04C	DCS3	Water	12/10/08 1200	12/11/08	MEEP_W *	RSK175M: Methane	<input type="checkbox"/>	<input type="checkbox"/>	12/26/08	12/17/08
08-9455-04D	DCS3	Water	12/10/08 1200	12/11/08	6010_D *	6010: Dissolved Metals	<input type="checkbox"/>	<input type="checkbox"/>	12/26/08	6/08/09
08-9455-05A	DCS2	Water	12/10/08 1220	12/11/08	8021_W *	8021: BTEX	<input type="checkbox"/>	<input type="checkbox"/>	12/16/08	12/17/08
08-9455-05B	DCS2	Water	12/10/08 1220	12/11/08	COND_W	Specific Conductance @ 25°C	<input type="checkbox"/>	<input type="checkbox"/>	12/26/08	1/07/09
08-9455-05B	DCS2	Water	12/10/08 1220	12/11/08	PH_DW	E150.1 pH	<input type="checkbox"/>	<input type="checkbox"/>	12/26/08	12/11/08
08-9455-05B	DCS2	Water	12/10/08 1220	12/11/08	TDS_W	Total Dissolved Solids (TDS)	<input type="checkbox"/>	<input type="checkbox"/>	12/26/08	12/17/08
08-9455-05C	DCS2	Water	12/10/08 1220	12/11/08	MEEP_W *	RSK175M: Methane	<input type="checkbox"/>	<input type="checkbox"/>	12/26/08	12/17/08
08-9455-05D	DCS2	Water	12/10/08 1220	12/11/08	6010_D *	6010: Dissolved Metals	<input type="checkbox"/>	<input type="checkbox"/>	12/26/08	6/08/09
08-9455-06A	MW24	Water	12/10/08 1330	12/11/08	8021_W *	8021: BTEX	<input type="checkbox"/>	<input type="checkbox"/>	12/16/08	12/17/08
08-9455-06B	MW24	Water	12/10/08 1330	12/11/08	COND_W	Specific Conductance @ 25°C	<input type="checkbox"/>	<input type="checkbox"/>	12/26/08	1/07/09
08-9455-06B	MW24	Water	12/10/08 1330	12/11/08	PH_DW	E150.1 pH	<input type="checkbox"/>	<input type="checkbox"/>	12/26/08	12/11/08
08-9455-06B	MW24	Water	12/10/08 1330	12/11/08	TDS_W	Total Dissolved Solids (TDS)	<input type="checkbox"/>	<input type="checkbox"/>	12/26/08	12/17/08
08-9455-06C	MW24	Water	12/10/08 1330	12/11/08	MEEP_W *	RSK175M: Methane	<input type="checkbox"/>	<input type="checkbox"/>	12/26/08	12/17/08
08-9455-06D	MW24	Water	12/10/08 1330	12/11/08	6010_D *	6010: Dissolved Metals	<input type="checkbox"/>	<input type="checkbox"/>	12/26/08	6/08/09
08-9455-07A	DCS24-D	Water	12/10/08 1330	12/11/08	8021_W *	8021: BTEX	<input type="checkbox"/>	<input type="checkbox"/>	12/16/08	12/17/08
08-9455-07B	DCS24-D	Water	12/10/08 1330	12/11/08	COND_W	Specific Conductance @ 25°C	<input type="checkbox"/>	<input type="checkbox"/>	12/26/08	1/07/09
08-9455-07B	DCS24-D	Water	12/10/08 1330	12/11/08	PH_DW	E150.1 pH	<input type="checkbox"/>	<input type="checkbox"/>	12/26/08	12/11/08
08-9455-07B	DCS24-D	Water	12/10/08 1330	12/11/08	TDS_W	Total Dissolved Solids (TDS)	<input type="checkbox"/>	<input type="checkbox"/>	12/26/08	12/17/08
08-9455-07C	DCS24-D	Water	12/10/08 1330	12/11/08	MEEP_W *	RSK175M: Methane	<input type="checkbox"/>	<input type="checkbox"/>	12/26/08	12/17/08
08-9455-07D	DCS24-D	Water	12/10/08 1330	12/11/08	6010_D *	6010: Dissolved Metals	<input type="checkbox"/>	<input type="checkbox"/>	12/26/08	6/08/09
08-9455-08A	MW-2	Water	12/10/08 1105	12/11/08	8021_W *	8021: BTEX	<input type="checkbox"/>	<input type="checkbox"/>	12/16/08	12/17/08
08-9455-08B	MW-2	Water	12/10/08 1105	12/11/08	COND_W	Specific Conductance @ 25°C	<input type="checkbox"/>	<input type="checkbox"/>	12/26/08	1/07/09

Definitions: \* - Test Code has a Select List

## WORK ORDER Summary

Evergreen Analytical, Inc.

08-9455

Rpt To: Stuart Hall

Email To: shall@oaconsulting.com

12/11/08 3:11:57 PM

Cordilleran Compliance

826 21 1/2 Road

Grand Junction, CO 81505

(970) 263-7800

Client Project ID: 008-2067

QC Level: LEVEL I

08-9455-08B	MW-2	Water	12/10/08 1105	12/11/08	PH_DW	E150.1 pH	<input type="checkbox"/>	<input type="checkbox"/>	12/26/08	12/11/08
08-9455-08B	MW-2	Water	12/10/08 1105	12/11/08	TDS_W	Total Dissolved Solids (TDS)	<input type="checkbox"/>	<input type="checkbox"/>	12/26/08	12/17/08
08-9455-08C	MW-2	Water	12/10/08 1105	12/11/08	MEEP_W *	RSK175M: Methane	<input type="checkbox"/>	<input type="checkbox"/>	12/26/08	12/17/08
08-9455-08D	MW-2	Water	12/10/08 1105	12/11/08	6010_D *	6010: Dissolved Metals	<input type="checkbox"/>	<input type="checkbox"/>	12/26/08	6/08/09
08-9455-09A	DCS5	Water	12/10/08 1140	12/11/08	8021_W *	8021: BTEX	<input type="checkbox"/>	<input type="checkbox"/>	12/16/08	12/17/08
08-9455-09B	DCS5	Water	12/10/08 1140	12/11/08	COND_W	Specific Conductance @ 25°C	<input type="checkbox"/>	<input type="checkbox"/>	12/26/08	1/07/09
08-9455-09B	DCS5	Water	12/10/08 1140	12/11/08	PH_DW	E150.1 pH	<input type="checkbox"/>	<input type="checkbox"/>	12/26/08	12/11/08
08-9455-09B	DCS5	Water	12/10/08 1140	12/11/08	TDS_W	Total Dissolved Solids (TDS)	<input type="checkbox"/>	<input type="checkbox"/>	12/26/08	12/17/08
08-9455-09C	DCS5	Water	12/10/08 1140	12/11/08	MEEP_W *	RSK175M: Methane	<input type="checkbox"/>	<input type="checkbox"/>	12/26/08	12/17/08
08-9455-09D	DCS5	Water	12/10/08 1140	12/11/08	6010_D *	6010: Dissolved Metals	<input type="checkbox"/>	<input type="checkbox"/>	12/26/08	6/08/09
08-9455-10A	DCS5-D	Water	12/10/08 1140	12/11/08	8021_W *	8021: BTEX	<input type="checkbox"/>	<input type="checkbox"/>	12/16/08	12/17/08
08-9455-10B	DCS5-D	Water	12/10/08 1140	12/11/08	COND_W	Specific Conductance @ 25°C	<input type="checkbox"/>	<input type="checkbox"/>	12/26/08	1/07/09
08-9455-10B	DCS5-D	Water	12/10/08 1140	12/11/08	PH_DW	E150.1 pH	<input type="checkbox"/>	<input type="checkbox"/>	12/26/08	12/11/08
08-9455-10B	DCS5-D	Water	12/10/08 1140	12/11/08	TDS_W	Total Dissolved Solids (TDS)	<input type="checkbox"/>	<input type="checkbox"/>	12/26/08	12/17/08
08-9455-10C	DCS5-D	Water	12/10/08 1140	12/11/08	MEEP_W *	RSK175M: Methane	<input type="checkbox"/>	<input type="checkbox"/>	12/26/08	12/17/08
08-9455-10D	DCS5-D	Water	12/10/08 1140	12/11/08	6010_D *	6010: Dissolved Metals	<input type="checkbox"/>	<input type="checkbox"/>	12/26/08	6/08/09
08-9455-11A	DCS4	Water	12/10/08 1230	12/11/08	8021_W *	8021: BTEX	<input type="checkbox"/>	<input type="checkbox"/>	12/16/08	12/17/08
08-9455-11B	DCS4	Water	12/10/08 1230	12/11/08	COND_W	Specific Conductance @ 25°C	<input type="checkbox"/>	<input type="checkbox"/>	12/26/08	1/07/09
08-9455-11B	DCS4	Water	12/10/08 1230	12/11/08	PH_DW	E150.1 pH	<input type="checkbox"/>	<input type="checkbox"/>	12/26/08	12/11/08
08-9455-11B	DCS4	Water	12/10/08 1230	12/11/08	TDS_W	Total Dissolved Solids (TDS)	<input type="checkbox"/>	<input type="checkbox"/>	12/26/08	12/17/08
08-9455-11C	DCS4	Water	12/10/08 1230	12/11/08	MEEP_W *	RSK175M: Methane	<input type="checkbox"/>	<input type="checkbox"/>	12/26/08	12/17/08
08-9455-11D	DCS4	Water	12/10/08 1230	12/11/08	6010_D *	6010: Dissolved Metals	<input type="checkbox"/>	<input type="checkbox"/>	12/26/08	6/08/09
08-9455-12A	DCS1	Water	12/10/08 1300	12/11/08	8021_W *	8021: BTEX	<input type="checkbox"/>	<input type="checkbox"/>	12/16/08	12/17/08

Definitions: \* - Test Code has a Select List

**WORK ORDER Summary****Evergreen Analytical, Inc.****08-9455****Rpt To:** Stuart Hall**Email To:** shall@oaconsulting.com

12/11/08 3:11:57 PM

Cordilleran Compliance

826 21 1/2 Road

Grand Junction, CO 81505

(970) 263-7800

**Client Project ID:** 008-2067**QC Level:** LEVEL I

08-9455-12B	DCS1	Water	12/10/08 1300	12/11/08	COND_W	Specific Conductance @ 25°C	<input type="checkbox"/>	<input type="checkbox"/>	12/26/08	1/07/09
08-9455-12B	DCS1	Water	12/10/08 1300	12/11/08	PH_DW	E150.1 pH	<input type="checkbox"/>	<input type="checkbox"/>	12/26/08	12/11/08
08-9455-12B	DCS1	Water	12/10/08 1300	12/11/08	TDS_W	Total Dissolved Solids (TDS)	<input type="checkbox"/>	<input type="checkbox"/>	12/26/08	12/17/08
08-9455-12C	DCS1	Water	12/10/08 1300	12/11/08	MEEP_W *	RSK175M: Methane	<input type="checkbox"/>	<input type="checkbox"/>	12/26/08	12/17/08
08-9455-12D	DCS1	Water	12/10/08 1300	12/11/08	6010_D *	6010: Dissolved Metals	<input type="checkbox"/>	<input type="checkbox"/>	12/26/08	6/08/09

**Evergreen Analytical Laboratory Inc.**

**NOTE:** Identify Known Hazards Below

SAMPLE IDENTIFICATION	DATE SAMPLED	TIME
--------------------------	-----------------	------

0ACONSULTING.COM

4036 Youngfield St.  
Wheat Ridge, Colorado 80033  
(303) 425-6021  
FAX (303) 425-6854  
(877) 737-4521  
e-mail [info@evergreenanalytical.com](mailto:info@evergreenanalytical.com)

Report Results by: \_\_\_\_\_ (Date)\*

Standard 2 working weeks

UST Analyses per Fee Schedule ☐

\* Rush: ☐ less than 24 hrs. 150% ☐ 1 - 2 work days. 100%

☐ 3 - 5 work days, 50%      ☐ 6 - 9 work days, 25%

\*Subject to surcharge & exceptions noted in fee schedule.

For Laboratory  
use only

W.O.# 09-9455

B.O.F.# \_\_\_\_\_

C/S (O)                     

∴ C/S (I) 6464 JPR

Cooler Temp. °C 2.0Seals Present ☒ / N / NASeals Intact ☒ / N

Samples Pres. Y / ~~N~~ / NA

Headspace Y./N/NA

By                     

0CS8	12/10/08	1100	7		
0CS7		1115			
0CS6		1130			
0CS3		1200			
0CS2		1220			
MW24		1830			
MW24-D		1330			
MW2		1105			
0CS5		1140			
0CS5-D		1140			
0CS4		1230			
0CS1		1300			

Does this analysis involve property transfer? ☐ Yes or ☒ No

Instructions: METALS: FIELD FILTERED

**\*\* Important Note:** See reverse side hereof for terms and conditions.

Relinquished by: (Signature)

Date/Time

Received by: (Signature)

Date/Time

Relinquished by: (Signature)

Date/Time	
-----------	--

Received by: (Signature)

Date/Time	
-----------	--

1211105  
1040

**Evergreen Analytical, Inc.**

**Date:** 23-Dec-08

**Lab Order:** 08-9455

**Client Project ID** 008-2067

## **CASE NARRATIVE**

### **SAMPLE RECEIVING**

Custody seals were present and intact.

The temperature of the sample(s) upon arrival was 2.0°C.

Sample(s) were received in good condition, in the proper container, and within holding times.

VOC samples were not preserved.

VOC sample(s) were received with no headspace present. JD

### **QUALITY ASSURANCE (QA)**

Analyses performed on samples in this work order by EAL meet the requirements of the EAL Quality Assurance Program unless otherwise explained. Analyses of RCRA samples meet the requirements of NELAC and Utah Rule R444-14 unless otherwise explained. TP

### **CLIENT SERVICES**

The client did not relinquish the chain of custody. There are no other anomalies to report. EKH

### **GENERAL CHEMISTRY**

There are no anomalies to report. MM

### **METALS ANALYSIS**

Sodium was detected in the method blank (MB) for the 6010 dissolved metals at 0.44 mg/L. This amount was not subtracted from the sample results. There are no other anomalies to report. SS

### **GAS CHROMATOGRAPHY**

Method RSK175: There are no anomalies to report. VM

Method 8021\_W: There are no anomalies to report. VM

## SUMMARY OF SAMPLE RESULTS

## Evergreen Analytical, Inc.

4036 Youngfield Street, Wheat Ridge, Colorado 80033-3862  
(303) 425-6021

Client Sample ID: DCS8  
Client Project ID: 008-2067  
Date Collected: 12/10/08 1100  
Date Received: 12/11/08

Lab Work Order: 08-9455  
Lab Sample ID: 08-9455-01  
Sample Matrix: Water

<b>Dissolved Metals</b>	<b>Method: SW6010B</b>			<b>Analyst: MAB</b>
	<b>Result</b>	<b>LQL</b>	<b>DF</b>	<b>Units</b>
Sodium	110 B	0.40	1	mg/L
<b>Aromatic Volatile Organics</b>	<b>Method: SW8021B</b>			<b>Analyst: VM</b>
	<b>Result</b>	<b>LQL</b>	<b>DF</b>	<b>Units</b>
Benzene	U	1.0	1	µg/L
Ethylbenzene	U	2.0	1	µg/L
m,p-Xylene	U	2.0	1	µg/L
o-Xylene	U	2.0	1	µg/L
Toluene	U	2.0	1	µg/L
<b>Specific Conductance @ 25°C</b>	<b>Method: SM2510 B</b>			<b>Analyst: JD</b>
	<b>Result</b>	<b>LQL</b>	<b>DF</b>	<b>Units</b>
Specific Conductance	915	1.00	1	µmhos/cm
<b>RSKSOP-175M Headspace</b>	<b>Method: RSKSOP175M</b>			<b>Analyst: VM</b>
	<b>Result</b>	<b>LQL</b>	<b>DF</b>	<b>Units</b>
Methane	0.0060	0.00080	1	mg/L
<b>E150.1 pH</b>	<b>Method: E150.1</b>			<b>Analyst: CJ</b>
	<b>Result</b>	<b>LQL</b>	<b>DF</b>	<b>Units</b>
pH	8.42	1.00	1	pH Units
<b>Total Dissolved Solids (TDS)</b>	<b>Method: SM 2540C</b>			<b>Analyst: CJ</b>
	<b>Result</b>	<b>LQL</b>	<b>DF</b>	<b>Units</b>
Total Dissolved Solids	637	10.0	1	mg/L

**Qualifiers:** B - Analyte detected in the associated Method Blank, value not subtracted from result  
E - Extrapolated value. Value exceeds calibration range  
H - Sample analysis exceeded analytical holding time  
J - Indicates an estimated value when the compound is detected, but is below the LQL  
U - Compound analyzed for but not detected  
X - See case narrative  
\* - Value exceeded the Maximum Contamination Level (MCL), TCLP limit, or if compound is undetected, LQL exceeds MCL.

**Definitions:** NA - Not Applicable

Print Date: 12/23/2008



# SUMMARY OF SAMPLE RESULTS

## Evergreen Analytical, Inc.

4036 Youngfield Street, Wheat Ridge, Colorado 80033-3862  
(303) 425-6021

Client Sample ID: DCS7  
Client Project ID: 008-2067  
Date Collected: 12/10/08 1115  
Date Received: 12/11/08

Lab Work Order: 08-9455  
Lab Sample ID: 08-9455-02  
Sample Matrix: Water

### Dissolved Metals

Method: SW6010B

Analyst: MAB

Result	LQL	DF	Units
110 B	0.40	1	mg/L

Sodium

### Aromatic Volatile Organics

Method: SW8021B

Analyst: VM

Result	LQL	DF	Units
U	1.0	1	µg/L
U	2.0	1	µg/L
U	2.0	1	µg/L
U	2.0	1	µg/L
U	2.0	1	µg/L

Benzene

Ethylbenzene

m,p-Xylene

o-Xylene

Toluene

### Specific Conductance @ 25°C

Method: SM2510 B

Analyst: JD

Result	LQL	DF	Units
913	1.00	1	µmhos/cm

Specific Conductance

### RSKSOP-175M Headspace

Method: RSKSOP175M

Analyst: VM

Result	LQL	DF	Units
0.0083	0.00080	1	mg/L

Methane

### E150.1 pH

Method: E150.1

Analyst: CJ

Result	LQL	DF	Units
8.45	1.00	1	pH Units

pH

### Total Dissolved Solids (TDS)

Method: SM 2540C

Analyst: CJ

Result	LQL	DF	Units
635	10.0	1	mg/L

Total Dissolved Solids

**Qualifiers:** B - Analyte detected in the associated Method Blank, value not subtracted from result  
E - Extrapolated value. Value exceeds calibration range  
H - Sample analysis exceeded analytical holding time  
J - Indicates an estimated value when the compound is detected, but is below the LQL  
U - Compound analyzed for but not detected  
X - See case narrative  
\* - Value exceeded the Maximum Contamination Level (MCL), TCLP limit, or if compound is undetected, LQL exceeds MCL.

**Definitions:** NA - Not Applicable

Print Date: 12/23/2008

## SUMMARY OF SAMPLE RESULTS

## Evergreen Analytical, Inc.

4036 Youngfield Street, Wheat Ridge, Colorado 80033-3862  
(303) 425-6021

Client Sample ID: DCS6  
Client Project ID: 008-2067  
Date Collected: 12/10/08 1130  
Date Received: 12/11/08

Lab Work Order: 08-9455  
Lab Sample ID: 08-9455-03  
Sample Matrix: Water

Dissolved Metals	Method: SW6010B			Analyst: MAB
	Result	LQL	DF	Units
Sodium	110 B	0.40	1	mg/L
Aromatic Volatile Organics	Method: SW8021B			Analyst: VM
	Result	LQL	DF	Units
Benzene	U	1.0	1	µg/L
Ethylbenzene	U	2.0	1	µg/L
m,p-Xylene	U	2.0	1	µg/L
o-Xylene	U	2.0	1	µg/L
Toluene	U	2.0	1	µg/L
Specific Conductance @ 25°C	Method: SM2510 B			Analyst: JD
	Result	LQL	DF	Units
Specific Conductance	912	1.00	1	µmhos/cm
RSKSOP-175M Headspace	Method: RSKSOP175M			Analyst: VM
	Result	LQL	DF	Units
Methane	0.085	0.0080	10	mg/L
E150.1 pH	Method: E150.1			Analyst: CJ
	Result	LQL	DF	Units
pH	8.47	1.00	1	pH Units
Total Dissolved Solids (TDS)	Method: SM 2540C			Analyst: CJ
	Result	LQL	DF	Units
Total Dissolved Solids	637	10.0	1	mg/L

**Qualifiers:** B - Analyte detected in the associated Method Blank, value not subtracted from result  
E - Extrapolated value. Value exceeds calibration range  
H - Sample analysis exceeded analytical holding time  
J - Indicates an estimated value when the compound is detected, but is below the LQL  
U - Compound analyzed for but not detected  
X - See case narrative  
\* - Value exceeded the Maximum Contamination Level (MCL), TCLP limit, or if compound is undetected, LQL exceeds MCL.

**Definitions:** NA - Not Applicable

Print Date: 12/23/2008

## SUMMARY OF SAMPLE RESULTS

## Evergreen Analytical, Inc.

4036 Youngfield Street, Wheat Ridge, Colorado 80033-3862  
(303) 425-6021

Client Sample ID: DCS3  
Client Project ID: 008-2067  
Date Collected: 12/10/08 1200  
Date Received: 12/11/08

Lab Work Order: 08-9455  
Lab Sample ID: 08-9455-04  
Sample Matrix: Water

## Dissolved Metals

Method: SW6010B

Analyst: MAB

Result	LQL	DF	Units
110 B	0.40	1	mg/L

Sodium

## Aromatic Volatile Organics

Method: SW8021B

Analyst: VM

Result	LQL	DF	Units
U	1.0	1	µg/L
U	2.0	1	µg/L
U	2.0	1	µg/L
U	2.0	1	µg/L
U	2.0	1	µg/L

Benzene

Ethylbenzene

m,p-Xylene

o-Xylene

Toluene

## Specific Conductance @ 25°C

Method: SM2510 B

Analyst: JD

Result	LQL	DF	Units
917	1.00	1	µmhos/cm

Specific Conductance

## RSKSOP-175M Headspace

Method: RSKSOP175M

Analyst: VM

Result	LQL	DF	Units
0.067	0.0080	10	mg/L

Methane

## E150.1 pH

Method: E150.1

Analyst: CJ

Result	LQL	DF	Units
8.51	1.00	1	pH Units

pH

## Total Dissolved Solids (TDS)

Method: SM 2540C

Analyst: CJ

Result	LQL	DF	Units
645	10.0	1	mg/L

Total Dissolved Solids

**Qualifiers:** B - Analyte detected in the associated Method Blank, value not subtracted from result  
E - Extrapolated value. Value exceeds calibration range  
H - Sample analysis exceeded analytical holding time  
J - Indicates an estimated value when the compound is detected, but is below the LQL  
U - Compound analyzed for but not detected  
X - See case narrative  
\* - Value exceeded the Maximum Contamination Level (MCL), TCLP limit, or if compound is undetected, LQL exceeds MCL.

**Definitions:** NA - Not Applicable

Print Date: 12/23/2008

## SUMMARY OF SAMPLE RESULTS

## Evergreen Analytical, Inc.

4036 Youngfield Street, Wheat Ridge, Colorado 80033-3862  
(303) 425-6021

Client Sample ID: DCS2  
Client Project ID: 008-2067  
Date Collected: 12/10/08 1220  
Date Received: 12/11/08

Lab Work Order: 08-9455  
Lab Sample ID: 08-9455-05  
Sample Matrix: Water

<b>Dissolved Metals</b>	<b>Method: SW6010B</b>			<b>Analyst: MAB</b>
	<b>Result</b>	<b>LQL</b>	<b>DF</b>	<b>Units</b>
Sodium	120 B	0.40	1	mg/L
<b>Aromatic Volatile Organics</b>	<b>Method: SW8021B</b>			<b>Analyst: VM</b>
	<b>Result</b>	<b>LQL</b>	<b>DF</b>	<b>Units</b>
Benzene	U	1.0	1	µg/L
Ethylbenzene	U	2.0	1	µg/L
m,p-Xylene	U	2.0	1	µg/L
o-Xylene	U	2.0	1	µg/L
Toluene	U	2.0	1	µg/L
<b>Specific Conductance @ 25°C</b>	<b>Method: SM2510 B</b>			<b>Analyst: JD</b>
	<b>Result</b>	<b>LQL</b>	<b>DF</b>	<b>Units</b>
Specific Conductance	915	1.00	1	µmhos/cm
<b>RSKSOP-175M Headspace</b>	<b>Method: RSKSOP175M</b>			<b>Analyst: VM</b>
	<b>Result</b>	<b>LQL</b>	<b>DF</b>	<b>Units</b>
Methane	0.0022	0.00080	1	mg/L
<b>E150.1 pH</b>	<b>Method: E150.1</b>			<b>Analyst: CJ</b>
	<b>Result</b>	<b>LQL</b>	<b>DF</b>	<b>Units</b>
pH	8.52	1.00	1	pH Units
<b>Total Dissolved Solids (TDS)</b>	<b>Method: SM 2540C</b>			<b>Analyst: CJ</b>
	<b>Result</b>	<b>LQL</b>	<b>DF</b>	<b>Units</b>
Total Dissolved Solids	641	10.0	1	mg/L

**Qualifiers:** B - Analyte detected in the associated Method Blank, value not subtracted from result  
E - Extrapolated value. Value exceeds calibration range  
H - Sample analysis exceeded analytical holding time  
J - Indicates an estimated value when the compound is detected, but is below the LQL  
U - Compound analyzed for but not detected  
X - See case narrative  
\* - Value exceeded the Maximum Contamination Level (MCL), TCLP limit, or if compound is undetected, LQL exceeds MCL.

**Definitions:** NA - Not Applicable

Print Date: 12/23/2008

## SUMMARY OF SAMPLE RESULTS

## Evergreen Analytical, Inc.

4036 Youngfield Street, Wheat Ridge, Colorado 80033-3862  
(303) 425-6021

Client Sample ID: MW24  
Client Project ID: 008-2067  
Date Collected: 12/10/08 1330  
Date Received: 12/11/08

Lab Work Order: 08-9455  
Lab Sample ID: 08-9455-06  
Sample Matrix: Water

<b>Dissolved Metals</b>	<b>Method:</b> SW6010B			<b>Analyst:</b> MAB
	<b>Result</b>	<b>LQL</b>	<b>DF</b>	<b>Units</b>
Sodium	42 B	0.40	1	mg/L
<b>Aromatic Volatile Organics</b>	<b>Method:</b> SW8021B			<b>Analyst:</b> VM
	<b>Result</b>	<b>LQL</b>	<b>DF</b>	<b>Units</b>
Benzene	U	1.0	1	µg/L
Ethylbenzene	U	2.0	1	µg/L
m,p-Xylene	U	2.0	1	µg/L
o-Xylene	U	2.0	1	µg/L
Toluene	U	2.0	1	µg/L
<b>Specific Conductance @ 25°C</b>	<b>Method:</b> SM2510 B			<b>Analyst:</b> JD
	<b>Result</b>	<b>LQL</b>	<b>DF</b>	<b>Units</b>
Specific Conductance	638	1.00	1	µmhos/cm
<b>RSKSOP-175M Headspace</b>	<b>Method:</b> RSKSOP175M			<b>Analyst:</b> VM
	<b>Result</b>	<b>LQL</b>	<b>DF</b>	<b>Units</b>
Methane	U	0.00080	1	mg/L
<b>E150.1 pH</b>	<b>Method:</b> E150.1			<b>Analyst:</b> CJ
	<b>Result</b>	<b>LQL</b>	<b>DF</b>	<b>Units</b>
pH	7.52	1.00	1	pH Units
<b>Total Dissolved Solids (TDS)</b>	<b>Method:</b> SM 2540C			<b>Analyst:</b> CJ
	<b>Result</b>	<b>LQL</b>	<b>DF</b>	<b>Units</b>
Total Dissolved Solids	420	10.0	1	mg/L

**Qualifiers:** B - Analyte detected in the associated Method Blank, value not subtracted from result  
E - Extrapolated value. Value exceeds calibration range  
H - Sample analysis exceeded analytical holding time  
J - Indicates an estimated value when the compound is detected, but is below the LQL  
U - Compound analyzed for but not detected  
X - See case narrative  
\* - Value exceeded the Maximum Contamination Level (MCL), TCLP limit, or if compound is undetected, LQL exceeds MCL.

**Definitions:** NA - Not Applicable

Print Date: 12/23/2008

## SUMMARY OF SAMPLE RESULTS

## Evergreen Analytical, Inc.

4036 Youngfield Street, Wheat Ridge, Colorado 80033-3862  
(303) 425-6021

Client Sample ID: MW24-D  
Client Project ID: 008-2067  
Date Collected: 12/10/08 1330  
Date Received: 12/11/08

Lab Work Order: 08-9455  
Lab Sample ID: 08-9455-07  
Sample Matrix: Water

Dissolved Metals	Method: SW6010B			Analyst: MAB
	Result	LQL	DF	Units
Sodium	41 B	0.40	1	mg/L
Aromatic Volatile Organics	Method: SW8021B			Analyst: VM
	Result	LQL	DF	Units
Benzene	U	1.0	1	µg/L
Ethylbenzene	U	2.0	1	µg/L
m,p-Xylene	U	2.0	1	µg/L
o-Xylene	U	2.0	1	µg/L
Toluene	U	2.0	1	µg/L
Specific Conductance @ 25°C	Method: SM2510 B			Analyst: JD
	Result	LQL	DF	Units
Specific Conductance	650	1.00	1	µmhos/cm
RSKSOP-175M Headspace	Method: RSKSOP175M			Analyst: VM
	Result	LQL	DF	Units
Methane	U	0.00080	1	mg/L
E150.1 pH	Method: E150.1			Analyst: CJ
	Result	LQL	DF	Units
pH	7.49	1.00	1	pH Units
Total Dissolved Solids (TDS)	Method: SM 2540C			Analyst: CJ
	Result	LQL	DF	Units
Total Dissolved Solids	421	10.0	1	mg/L

**Qualifiers:** B - Analyte detected in the associated Method Blank, value not subtracted from result  
E - Extrapolated value. Value exceeds calibration range  
H - Sample analysis exceeded analytical holding time  
J - Indicates an estimated value when the compound is detected, but is below the LQL  
U - Compound analyzed for but not detected  
X - See case narrative  
\* - Value exceeded the Maximum Contamination Level (MCL), TCLP limit, or if compound is undetected, LQL exceeds MCL.

**Definitions:** NA - Not Applicable

Print Date: 12/23/2008

## SUMMARY OF SAMPLE RESULTS

## Evergreen Analytical, Inc.

4036 Youngfield Street, Wheat Ridge, Colorado 80033-3862  
(303) 425-6021

Client Sample ID: MW-2  
Client Project ID: 008-2067  
Date Collected: 12/10/08 1105  
Date Received: 12/11/08

Lab Work Order: 08-9455  
Lab Sample ID: 08-9455-08  
Sample Matrix: Water

<b>Dissolved Metals</b>	<b>Method: SW6010B</b>			<b>Analyst: MAB</b>
	<b>Result</b>	<b>LQL</b>	<b>DF</b>	<b>Units</b>
Sodium	120 B	0.40	1	mg/L
<b>Aromatic Volatile Organics</b>	<b>Method: SW8021B</b>			<b>Analyst: VM</b>
	<b>Result</b>	<b>LQL</b>	<b>DF</b>	<b>Units</b>
Benzene	140	1.0	1	µg/L
Ethylbenzene	4.0	2.0	1	µg/L
m,p-Xylene	28	2.0	1	µg/L
o-Xylene	4.0	2.0	1	µg/L
Toluene	U	2.0	1	µg/L
<b>Specific Conductance @ 25°C</b>	<b>Method: SM2510 B</b>			<b>Analyst: JD</b>
	<b>Result</b>	<b>LQL</b>	<b>DF</b>	<b>Units</b>
Specific Conductance	803	1.00	1	µmhos/cm
<b>RSKSOP-175M Headspace</b>	<b>Method: RSKSOP175M</b>			<b>Analyst: VM</b>
	<b>Result</b>	<b>LQL</b>	<b>DF</b>	<b>Units</b>
Methane	7.3	0.040	50	mg/L
<b>E150.1 pH</b>	<b>Method: E150.1</b>			<b>Analyst: CJ</b>
	<b>Result</b>	<b>LQL</b>	<b>DF</b>	<b>Units</b>
pH	7.58	1.00	1	pH Units
<b>Total Dissolved Solids (TDS)</b>	<b>Method: SM 2540C</b>			<b>Analyst: CJ</b>
	<b>Result</b>	<b>LQL</b>	<b>DF</b>	<b>Units</b>
Total Dissolved Solids	527	10.0	1	mg/L

**Qualifiers:** B - Analyte detected in the associated Method Blank, value not subtracted from result  
E - Extrapolated value. Value exceeds calibration range  
H - Sample analysis exceeded analytical holding time  
J - Indicates an estimated value when the compound is detected, but is below the LQL  
U - Compound analyzed for but not detected  
X - See case narrative  
\* - Value exceeded the Maximum Contamination Level (MCL), TCLP limit, or if compound is undetected, LQL exceeds MCL.

**Definitions:** NA - Not Applicable

Print Date: 12/23/2008

## SUMMARY OF SAMPLE RESULTS

## Evergreen Analytical, Inc.

4036 Youngfield Street, Wheat Ridge, Colorado 80033-3862  
(303) 425-6021

Client Sample ID: DCS5  
Client Project ID: 008-2067  
Date Collected: 12/10/08 1140  
Date Received: 12/11/08

Lab Work Order: 08-9455  
Lab Sample ID: 08-9455-09  
Sample Matrix: Water

<b>Dissolved Metals</b>	<b>Method: SW6010B</b>			<b>Analyst: MAB</b>
	<b>Result</b>	<b>LQL</b>	<b>DF</b>	<b>Units</b>
Sodium	110 B	0.40	1	mg/L
<b>Aromatic Volatile Organics</b>	<b>Method: SW8021B</b>			<b>Analyst: VM</b>
	<b>Result</b>	<b>LQL</b>	<b>DF</b>	<b>Units</b>
Benzene	U	1.0	1	µg/L
Ethylbenzene	U	2.0	1	µg/L
m,p-Xylene	U	2.0	1	µg/L
o-Xylene	U	2.0	1	µg/L
Toluene	U	2.0	1	µg/L
<b>Specific Conductance @ 25°C</b>	<b>Method: SM2510 B</b>			<b>Analyst: JD</b>
	<b>Result</b>	<b>LQL</b>	<b>DF</b>	<b>Units</b>
Specific Conductance	925	1.00	1	µmhos/cm
<b>RSKSOP-175M Headspace</b>	<b>Method: RSKSOP175M</b>			<b>Analyst: VM</b>
	<b>Result</b>	<b>LQL</b>	<b>DF</b>	<b>Units</b>
Methane	0.0066	0.00080	1	mg/L
<b>E150.1 pH</b>	<b>Method: E150.1</b>			<b>Analyst: CJ</b>
	<b>Result</b>	<b>LQL</b>	<b>DF</b>	<b>Units</b>
pH	8.50	1.00	1	pH Units
<b>Total Dissolved Solids (TDS)</b>	<b>Method: SM 2540C</b>			<b>Analyst: CJ</b>
	<b>Result</b>	<b>LQL</b>	<b>DF</b>	<b>Units</b>
Total Dissolved Solids	638	10.0	1	mg/L

**Qualifiers:** B - Analyte detected in the associated Method Blank, value not subtracted from result  
E - Extrapolated value. Value exceeds calibration range  
H - Sample analysis exceeded analytical holding time  
J - Indicates an estimated value when the compound is detected, but is below the LQL  
U - Compound analyzed for but not detected  
X - See case narrative  
\* - Value exceeded the Maximum Contamination Level (MCL), TCLP limit, or if compound is undetected, LQL exceeds MCL.

**Definitions:** NA - Not Applicable

Print Date: 12/23/2008



## SUMMARY OF SAMPLE RESULTS

## Evergreen Analytical, Inc.

4036 Youngfield Street, Wheat Ridge, Colorado 80033-3862  
(303) 425-6021

Client Sample ID: DCS5-D  
Client Project ID: 008-2067  
Date Collected: 12/10/08 1140  
Date Received: 12/11/08

Lab Work Order: 08-9455  
Lab Sample ID: 08-9455-10  
Sample Matrix: Water

<b>Dissolved Metals</b>	<b>Method: SW6010B</b>			<b>Analyst: MAB</b>
	<b>Result</b>	<b>LQL</b>	<b>DF</b>	<b>Units</b>
Sodium	110 B	0.40	1	mg/L
<b>Aromatic Volatile Organics</b>	<b>Method: SW8021B</b>			<b>Analyst: VM</b>
	<b>Result</b>	<b>LQL</b>	<b>DF</b>	<b>Units</b>
Benzene	U	1.0	1	µg/L
Ethylbenzene	U	2.0	1	µg/L
m,p-Xylene	U	2.0	1	µg/L
o-Xylene	U	2.0	1	µg/L
Toluene	U	2.0	1	µg/L
<b>Specific Conductance @ 25°C</b>	<b>Method: SM2510 B</b>			<b>Analyst: JD</b>
	<b>Result</b>	<b>LQL</b>	<b>DF</b>	<b>Units</b>
Specific Conductance	923	1.00	1	µmhos/cm
<b>RSKSOP-175M Headspace</b>	<b>Method: RSKSOP175M</b>			<b>Analyst: VM</b>
	<b>Result</b>	<b>LQL</b>	<b>DF</b>	<b>Units</b>
Methane	0.0062	0.00080	1	mg/L
<b>E150.1 pH</b>	<b>Method: E150.1</b>			<b>Analyst: CJ</b>
	<b>Result</b>	<b>LQL</b>	<b>DF</b>	<b>Units</b>
pH	8.50	1.00	1	pH Units
<b>Total Dissolved Solids (TDS)</b>	<b>Method: SM 2540C</b>			<b>Analyst: CJ</b>
	<b>Result</b>	<b>LQL</b>	<b>DF</b>	<b>Units</b>
Total Dissolved Solids	636	10.0	1	mg/L

**Qualifiers:** B - Analyte detected in the associated Method Blank, value not subtracted from result  
E - Extrapolated value. Value exceeds calibration range  
H - Sample analysis exceeded analytical holding time  
J - Indicates an estimated value when the compound is detected, but is below the LQL  
U - Compound analyzed for but not detected  
X - See case narrative  
\* - Value exceeded the Maximum Contamination Level (MCL), TCLP limit, or if compound is undetected, LQL exceeds MCL.

**Definitions:** NA - Not Applicable

Print Date: 12/23/2008

## SUMMARY OF SAMPLE RESULTS

## Evergreen Analytical, Inc.

4036 Youngfield Street, Wheat Ridge, Colorado 80033-3862  
(303) 425-6021

Client Sample ID: DCS4  
Client Project ID: 008-2067  
Date Collected: 12/10/08 1230  
Date Received: 12/11/08

Lab Work Order: 08-9455  
Lab Sample ID: 08-9455-11  
Sample Matrix: Water

## Dissolved Metals

Method: SW6010B

Analyst: MAB

Result	LQL	DF	Units
110 B	0.40	1	mg/L

## Aromatic Volatile Organics

Method: SW8021B

Analyst: VM

Result	LQL	DF	Units
U	1.0	1	µg/L
U	2.0	1	µg/L
U	2.0	1	µg/L
U	2.0	1	µg/L
U	2.0	1	µg/L

## Specific Conductance @ 25°C

Method: SM2510 B

Analyst: JD

Result	LQL	DF	Units
913	1.00	1	µmhos/cm

## RSKSOP-175M Headspace

Method: RSKSOP175M

Analyst: VM

Result	LQL	DF	Units
0.0060	0.00080	1	mg/L

## E150.1 pH

Method: E150.1

Analyst: CJ

Result	LQL	DF	Units
8.54	1.00	1	pH Units

## Total Dissolved Solids (TDS)

Method: SM 2540C

Analyst: CJ

Result	LQL	DF	Units
633	10.0	1	mg/L

**Qualifiers:** B - Analyte detected in the associated Method Blank, value not subtracted from result  
E - Extrapolated value. Value exceeds calibration range  
H - Sample analysis exceeded analytical holding time  
J - Indicates an estimated value when the compound is detected, but is below the LQL  
U - Compound analyzed for but not detected  
X - See case narrative  
\* - Value exceeded the Maximum Contamination Level (MCL), TCLP limit, or if compound is undetected, LQL exceeds MCL.

**Definitions:** NA - Not Applicable

Print Date: 12/23/2008

## SUMMARY OF SAMPLE RESULTS

## Evergreen Analytical, Inc.

4036 Youngfield Street, Wheat Ridge, Colorado 80033-3862  
(303) 425-6021

Client Sample ID: DCS1  
Client Project ID: 008-2067  
Date Collected: 12/10/08 1300  
Date Received: 12/11/08

Lab Work Order: 08-9455  
Lab Sample ID: 08-9455-12  
Sample Matrix: Water

<b>Dissolved Metals</b>	<b>Method: SW6010B</b>			<b>Analyst: MAB</b>
	<b>Result</b>	<b>LQL</b>	<b>DF</b>	<b>Units</b>
Sodium	110 B	0.40	1	mg/L
<b>Aromatic Volatile Organics</b>	<b>Method: SW8021B</b>			<b>Analyst: VM</b>
	<b>Result</b>	<b>LQL</b>	<b>DF</b>	<b>Units</b>
Benzene	U	1.0	1	µg/L
Ethylbenzene	U	2.0	1	µg/L
m,p-Xylene	U	2.0	1	µg/L
o-Xylene	U	2.0	1	µg/L
Toluene	U	2.0	1	µg/L
<b>Specific Conductance @ 25°C</b>	<b>Method: SM2510 B</b>			<b>Analyst: JD</b>
	<b>Result</b>	<b>LQL</b>	<b>DF</b>	<b>Units</b>
Specific Conductance	944	1.00	1	µmhos/cm
<b>RSKSOP-175M Headspace</b>	<b>Method: RSKSOP175M</b>			<b>Analyst: VM</b>
	<b>Result</b>	<b>LQL</b>	<b>DF</b>	<b>Units</b>
Methane	U	0.00080	1	mg/L
<b>E150.1 pH</b>	<b>Method: E150.1</b>			<b>Analyst: CJ</b>
	<b>Result</b>	<b>LQL</b>	<b>DF</b>	<b>Units</b>
pH	8.54	1.00	1	pH Units
<b>Total Dissolved Solids (TDS)</b>	<b>Method: SM 2540C</b>			<b>Analyst: CJ</b>
	<b>Result</b>	<b>LQL</b>	<b>DF</b>	<b>Units</b>
Total Dissolved Solids	639	10.0	1	mg/L

**Qualifiers:** B - Analyte detected in the associated Method Blank, value not subtracted from result  
E - Extrapolated value. Value exceeds calibration range  
H - Sample analysis exceeded analytical holding time  
J - Indicates an estimated value when the compound is detected, but is below the LQL  
U - Compound analyzed for but not detected  
X - See case narrative  
\* - Value exceeded the Maximum Contamination Level (MCL), TCLP limit, or if compound is undetected, LQL exceeds MCL.

**Definitions:** NA - Not Applicable

Print Date: 12/23/2008

# Evergreen Analytical, Inc.

4036 Youngfield Street, Wheat Ridge, Colorado 80033-3862  
(303) 425-6021

Client Sample ID: DCS8  
Client Project ID: 008-2067  
Date Collected: 12/10/08  
Date Received: 12/11/08

Lab Work Order 08-9455  
Lab Sample ID: 08-9455-01A  
Sample Matrix: Water

## AROMATIC VOLATILE ORGANICS

Method: SW8021B

Prep Method: SW5030B

Date Prepared: 12/12/08

Lab File ID: TVB41212\006R

Dilution Factor: 1

Date Analyzed: 12/12/08

Method Blank: MB4121208

Analytes	CAS Number	Result	LQL	Units
Benzene	71-43-2	U	1.0	µg/L
Toluene	108-88-3	U	2.0	µg/L
Ethylbenzene	100-41-4	U	2.0	µg/L
m,p-Xylene	1330-20-7	U	2.0	µg/L
o-Xylene	95-47-6	U	2.0	µg/L
Surr: 1,2,4-Trichlorobenzene (S)	120-82-1	94	QC Limits: 60-140	%REC

VM

Analyst

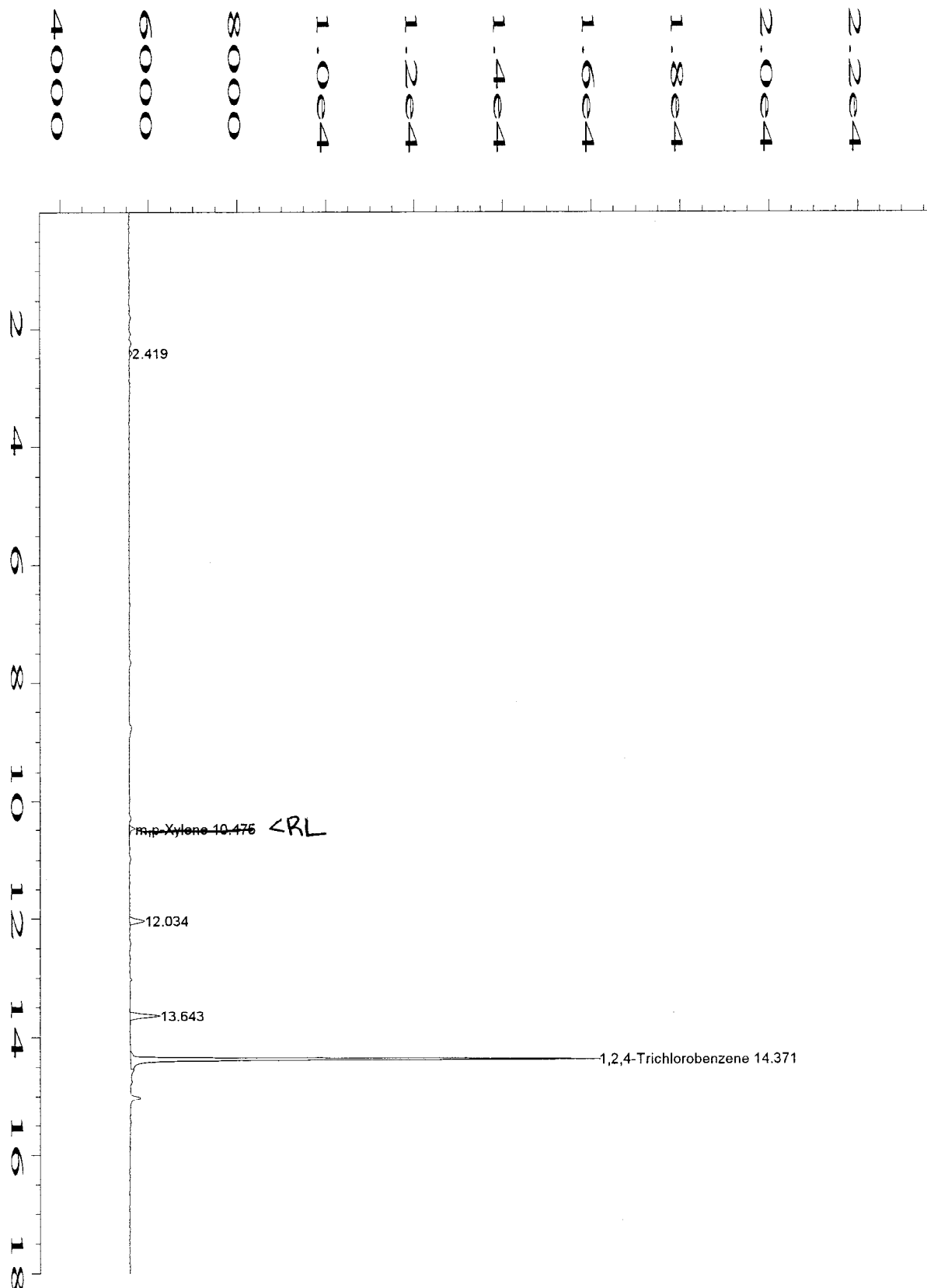
27  
Approved

Notes: Total Xylenes consist of three isomers, two of which co-elute. The Xylene RL is for a single peak. Confirmation analysis was not performed.

**Qualifiers:** B - Analyte detected in the associated Method Blank, value not subtracted from result  
E - Extrapolated value. Value exceeds calibration range  
H - Sample analysis exceeded analytical holding time  
J - Indicates an estimated value when the compound is detected, but is below the LQL  
S - Spike Recovery outside accepted limits  
U - Compound analyzed for but not detected  
X - See case narrative  
\* - Value exceeded the Maximum Contamination Level (MCL), TCLP limit, or if compound is undetected, LQL exceeds MCL.

**Definitions:** LQL - Lower Quantitation Limit  
Surr - Surrogate

Print Date: 12/15/08



Data File Name	: C:\HPCHEM\1\DATA\TVB41212\006R0101.D	Page Number	: 1
Operator	: Virginia Meyer	Vial Number	: 6
Instrument	: TVHBTEX4	Injection Number	: 1
Sample Name	: 08-9455-01A	Sequence Line	: 1
Run Time Bar Code:		Instrument Method:	TS40717M.MTH
Acquired on	: 12 Dec 08 03:09 PM	Analysis Method	: BS41205.MTH
Report Created on:	12 Dec 08 03:28 PM	Sample Amount	: 0
Last Recalib on	: 08 DEC 08 07:34 AM	ISTD Amount	:
Multiplier	: 1		
Sample Info	: SAMP		
	DF=1		

VM 12-15-08

# Evergreen Analytical, Inc.

4036 Youngfield Street, Wheat Ridge, Colorado 80033-3862  
(303) 425-6021

Client Sample ID: DCS7  
Client Project ID: 008-2067  
Date Collected: 12/10/08  
Date Received: 12/11/08

Lab Work Order 08-9455  
Lab Sample ID: 08-9455-02A  
Sample Matrix: Water

## AROMATIC VOLATILE ORGANICS

Method: SW8021B

Prep Method: SW5030B

Date Prepared: 12/12/08

Lab File ID: TVB41212\009R

Dilution Factor: 1

Date Analyzed: 12/12/08

Method Blank: MB4121208

Analytes	CAS Number	Result	LQL	Units
Benzene	71-43-2	U	1.0	µg/L
Toluene	108-88-3	U	2.0	µg/L
Ethylbenzene	100-41-4	U	2.0	µg/L
m,p-Xylene	1330-20-7	U	2.0	µg/L
o-Xylene	95-47-6	U	2.0	µg/L
Surr: 1,2,4-Trichlorobenzene (S)	120-82-1	91	QC Limits: 60-140	%REC

VM

Analyst

J7

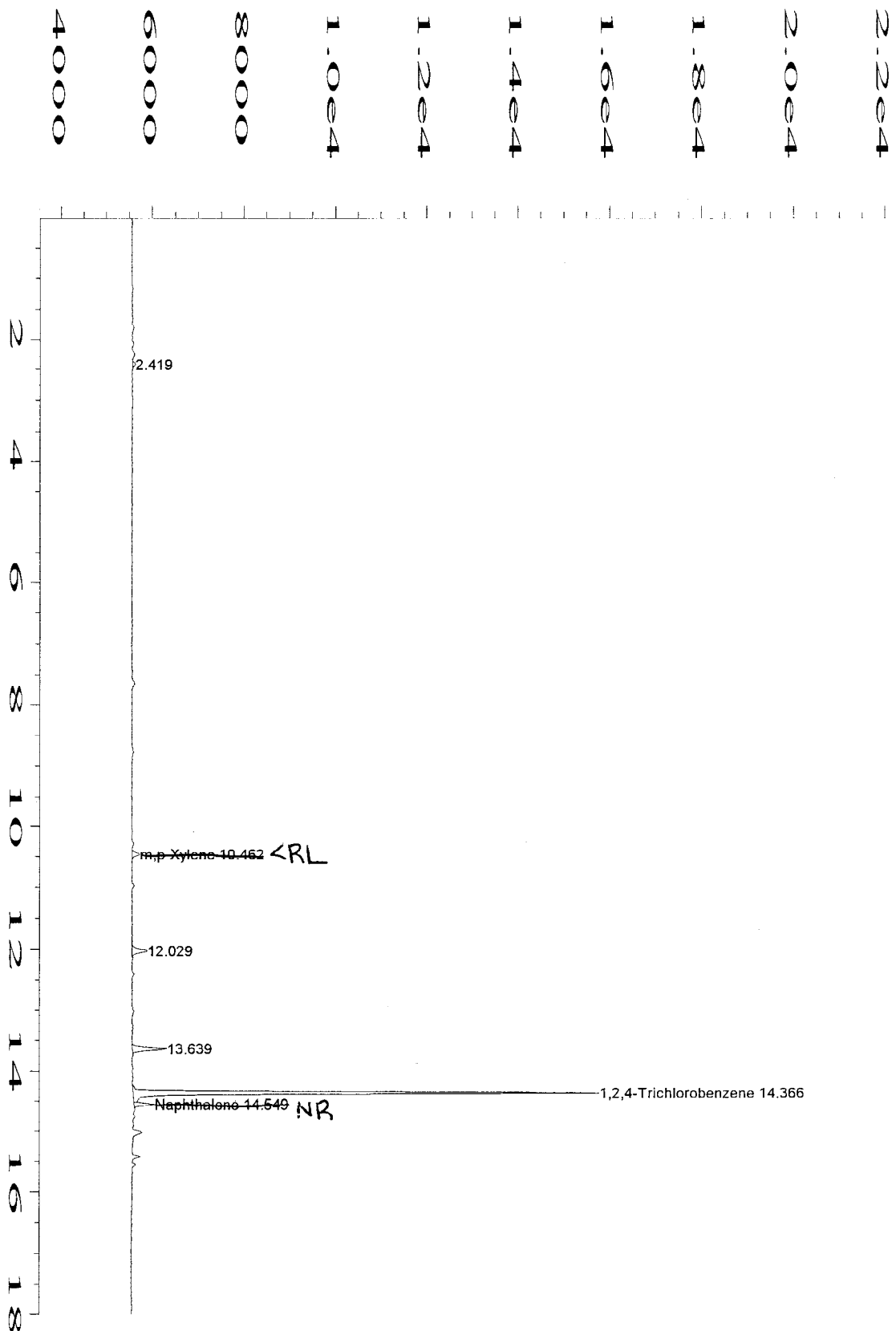
Approved

Notes: Total Xylenes consist of three isomers, two of which co-elute. The Xylene RL is for a single peak. Confirmation analysis was not performed.

**Qualifiers:** B - Analyte detected in the associated Method Blank, value not subtracted from result  
E - Extrapolated value. Value exceeds calibration range  
H - Sample analysis exceeded analytical holding time  
J - Indicates an estimated value when the compound is detected, but is below the LQL  
S - Spike Recovery outside accepted limits  
U - Compound analyzed for but not detected  
X - See case narrative  
\* - Value exceeded the Maximum Contamination Level (MCL), TCLP limit, or if compound is undetected, LQL exceeds MCL.

**Definitions:** LQL - Lower Quantitation Limit  
Surr - Surrogate

Print Date: 12/15/08



Data File Name	: C:\HPCHEM\1\DATA\TVB41212\009R0101.D	Page Number	: 1
Operator	: Virginia Meyer	Vial Number	: 9
Instrument	: TVHBTEX4	Injection Number	: 1
Sample Name	: 08-9455-02A	Sequence Line	: 1
Run Time Bar Code:		Instrument Method:	TS40717M.MTH
Acquired on	: 12 Dec 08 04:54 PM	Analysis Method	: BS41205.MTH
Report Created on:	12 Dec 08 05:12 PM	Sample Amount	: 0
Last Recalib on	: 08 DEC 08 07:34 AM	ISTD Amount	:
Multiplier	: 1		
Sample Info	: SAMP		
DF=1			

VM 12 15 08

# Evergreen Analytical, Inc.

4036 Youngfield Street, Wheat Ridge, Colorado 80033-3862  
(303) 425-6021

Client Sample ID: DCS6  
Client Project ID: 008-2067  
Date Collected: 12/10/08  
Date Received: 12/11/08

Lab Work Order: 08-9455  
Lab Sample ID: 08-9455-03A  
Sample Matrix: Water

## AROMATIC VOLATILE ORGANICS

Method: SW8021B

Prep Method: SW5030B

Date Prepared: 12/12/08

Lab File ID: TVB41212\010R

Dilution Factor: 1

Date Analyzed: 12/12/08

Method Blank: MB4121208

Analytes	CAS Number	Result	LQL	Units
Benzene	71-43-2	U	1.0	µg/L
Toluene	108-88-3	U	2.0	µg/L
Ethylbenzene	100-41-4	U	2.0	µg/L
m,p-Xylene	1330-20-7	U	2.0	µg/L
o-Xylene	95-47-6	U	2.0	µg/L
Surr: 1,2,4-Trichlorobenzene (S)	120-82-1	94	QC Limits: 60-140	%REC

VM

Analyst

J7

Approved

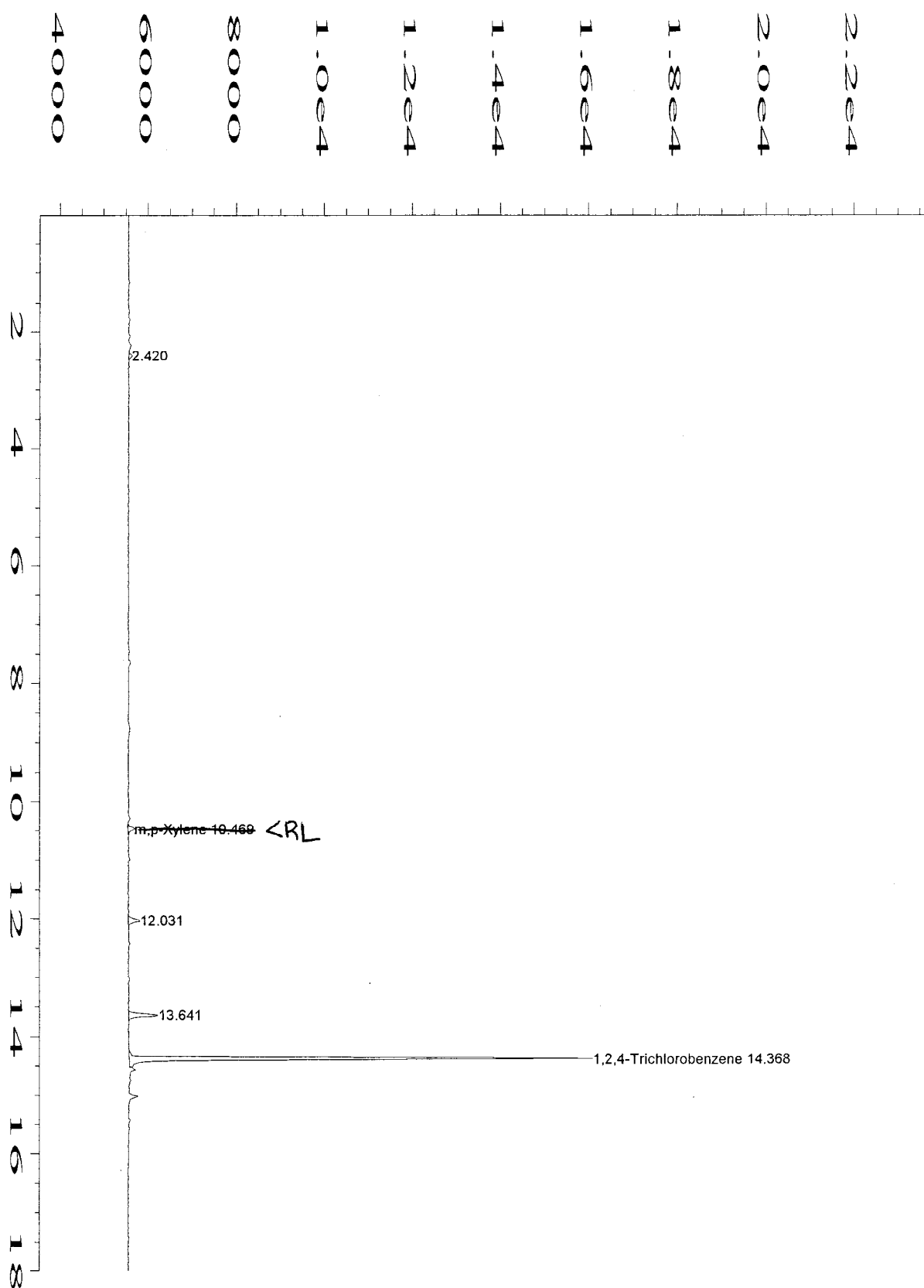
Notes: Total Xylenes consist of three isomers, two of which co-elute. The Xylene RI is for a single peak. Confirmation analysis was not performed.

**Qualifiers:** B - Analyte detected in the associated Method Blank, value not subtracted from result  
E - Extrapolated value. Value exceeds calibration range  
II - Sample analysis exceeded analytical holding time  
J - Indicates an estimated value when the compound is detected, but is below the LQL  
S - Spike Recovery outside accepted limits  
U - Compound analyzed for but not detected  
X - See case narrative  
\* - Value exceeded the Maximum Contamination Level (MCL), TCLP limit, or if compound is undetected, LQL exceeds MCL.

**Definitions:** LQL - Lower Quantitation Limit  
Surr - Surrogate

Print Date: 12/15/08





Data File Name	: C:\HPCHEM\1\DATA\TVB41212\010R0101.D	Page Number	: 1
Operator	: Virginia Meyer	Vial Number	: 10
Instrument	: TVHBTEX4	Injection Number	: 1
Sample Name	: 08-9455-03A	Sequence Line	: 1
Run Time Bar Code:		Instrument Method:	TS40717M.MTH
Acquired on	: 12 Dec 08 05:28 PM	Analysis Method	: BS41205.MTH
Report Created on:	12 Dec 08 05:47 PM	Sample Amount	: 0
Last Recalib on	: 08 DEC 08 07:34 AM	ISTD Amount	:
Multiplier	: 1		
Sample Info	: SAMP		
	DF=1		

VM 12 15 08

# Evergreen Analytical, Inc.

4036 Youngfield Street, Wheat Ridge, Colorado 80033-3862  
(303) 425-6021

Client Sample ID: DCS3  
Client Project ID: 008-2067  
Date Collected: 12/10/08  
Date Received: 12/11/08

Lab Work Order 08-9455  
Lab Sample ID: 08-9455-04A  
Sample Matrix: Water

## AROMATIC VOLATILE ORGANICS

Method: SW8021B

Prep Method: SW5030B

Date Prepared: 12/12/08

Lab File ID: TVB41212\011R

Dilution Factor: 1

Date Analyzed: 12/12/08

Method Blank: MB4121208

Analytes	CAS Number	Result	LQL	Units
Benzene	71-43-2	U	1.0	µg/L
Toluene	108-88-3	U	2.0	µg/L
Ethylbenzene	100-41-4	U	2.0	µg/L
m,p-Xylene	1330-20-7	U	2.0	µg/L
o-Xylene	95-47-6	U	2.0	µg/L
Surr: 1,2,4-Trichlorobenzene (S)	120-82-1	93	QC Limits: 60-140	%REC

VM

Analyst

57

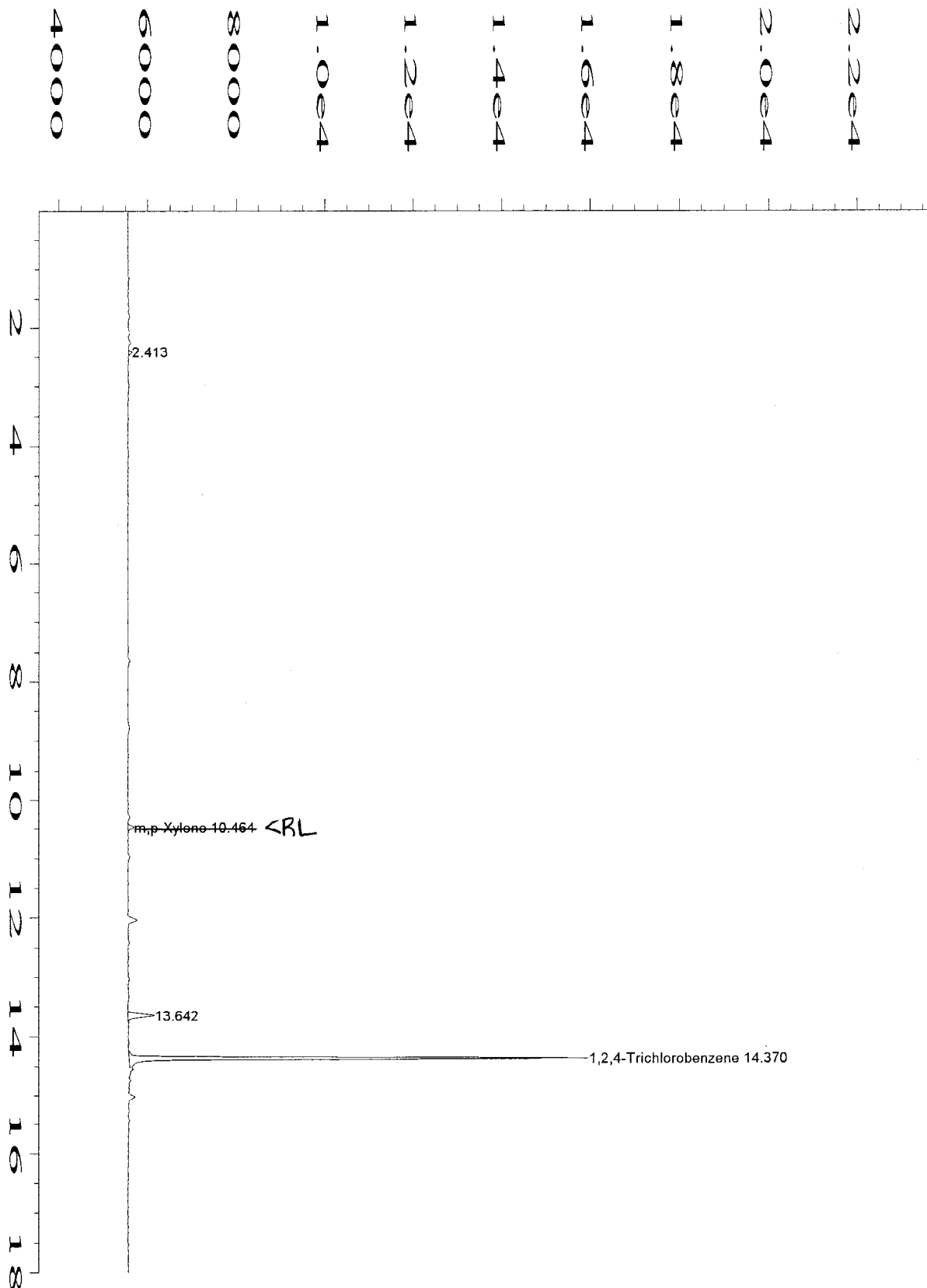
Approved

Notes: Total Xylenes consist of three isomers, two of which co-elute. The Xylene RL is for a single peak. Confirmation analysis was not performed.

**Qualifiers:** B - Analyte detected in the associated Method Blank, value not subtracted from result  
E - Extrapolated value. Value exceeds calibration range  
H - Sample analysis exceeded analytical holding time  
J - Indicates an estimated value when the compound is detected, but is below the LQL  
S - Spike Recovery outside accepted limits  
U - Compound analyzed for but not detected  
X - See case narrative  
\* - Value exceeded the Maximum Contamination Level (MCL), TCLP limit, or if compound is undetected, LQL exceeds MCL.

**Definitions:** LQL - Lower Quantitation Limit  
Surr - Surrogate

Print Date: 12/15/08



Data File Name	: C:\HPCHEM\1\DATA\TVB41212\011R0101.D	Page Number	: 1
Operator	: Virginia Meyer	Vial Number	: 11
Instrument	: TVHBTEX4	Injection Number	: 1
Sample Name	: 08-9455-04A	Sequence Line	: 1
Run Time Bar Code:		Instrument Method:	TS40717M.MTH
Acquired on	: 12 Dec 08 06:03 PM	Analysis Method	: BS41205.MTH
Report Created on:	12 Dec 08 06:22 PM	Sample Amount	: 0
Last Recalib on	: 08 DEC 08 07:34 AM	ISTD Amount	:
Multiplier	: 1		
Sample Info	: SAMP		
	DF=1		

VM 12.15.08

# Evergreen Analytical, Inc.

4036 Youngfield Street, Wheat Ridge, Colorado 80033-3862  
(303) 425-6021

Client Sample ID: DCS2  
Client Project ID: 008-2067  
Date Collected: 12/10/08  
Date Received: 12/11/08

Lab Work Order 08-9455  
Lab Sample ID: 08-9455-05A  
Sample Matrix: Water

## AROMATIC VOLATILE ORGANICS

Method: SW8021B

Prep Method: SW5030B

Date Prepared: 12/12/08

Lab File ID: TVB41212\016R

Dilution Factor: 1

Date Analyzed: 12/12/08

Method Blank: MB4121208

Analytes	CAS Number	Result	LQL	Units
Benzene	71-43-2	U	1.0	µg/L
Toluene	108-88-3	U	2.0	µg/L
Ethylbenzene	100-41-4	U	2.0	µg/L
m,p-Xylene	1330-20-7	U	2.0	µg/L
o-Xylene	95-47-6	U	2.0	µg/L
Surr: 1,2,4-Trichlorobenzene (S)	120-82-1	96	QC Limits: 60-140	%REC

VM

Analyst

27

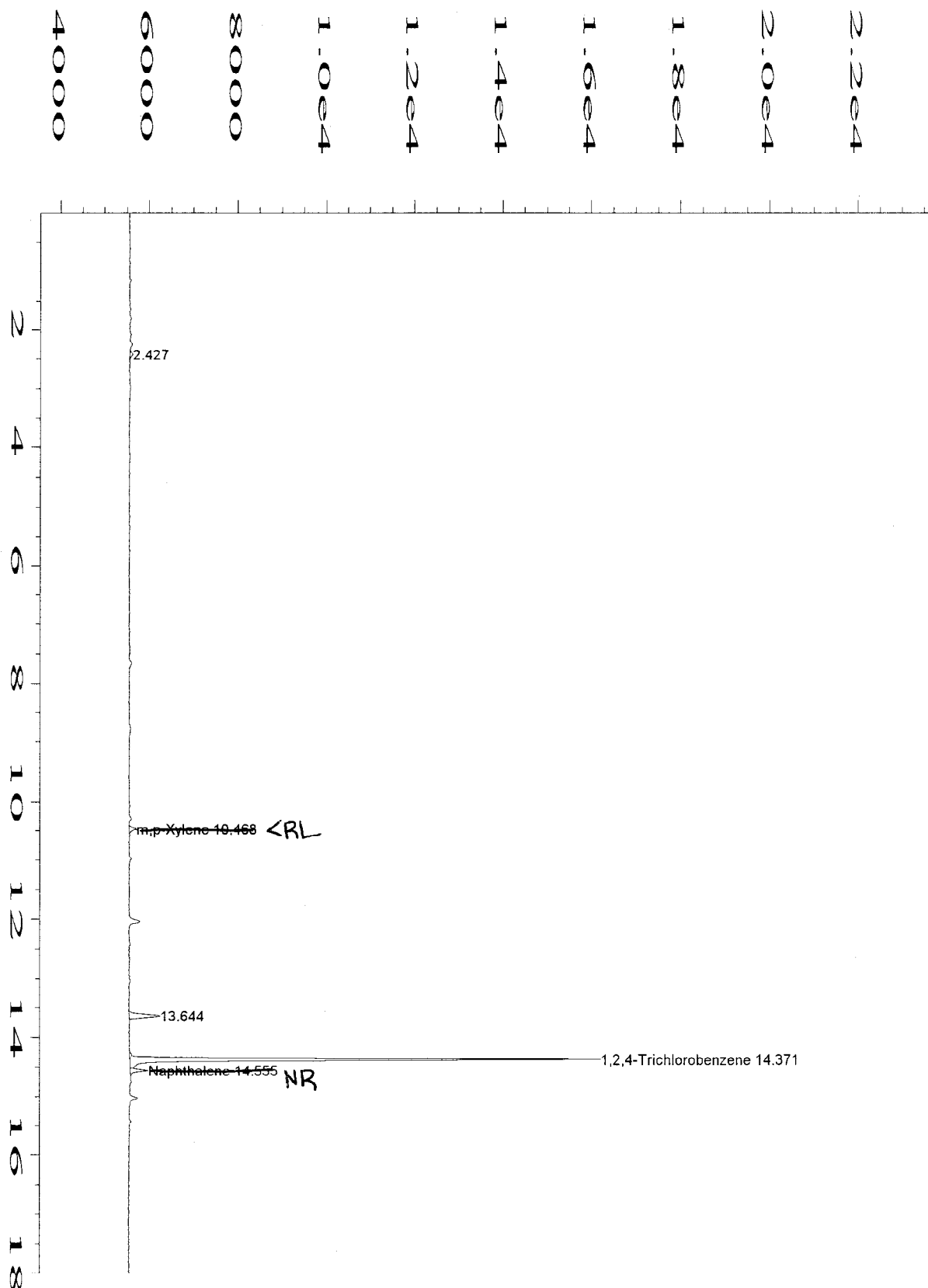
Approved

Notes: Total Xylenes consist of three isomers, two of which co-elute. The Xylene RL is for a single peak. Confirmation analysis was not performed.

**Qualifiers:** B - Analyte detected in the associated Method Blank, value not subtracted from result  
E - Extrapolated value. Value exceeds calibration range  
H - Sample analysis exceeded analytical holding time  
J - Indicates an estimated value when the compound is detected, but is below the LQL  
S - Spike Recovery outside accepted limits  
U - Compound analyzed for but not detected  
X - See case narrative  
\* - Value exceeded the Maximum Contamination Level (MCL), TCLP limit, or if compound is undetected, LQL exceeds MCL.

**Definitions:** LQL - Lower Quantitation Limit  
Surr - Surrogate

Print Date: 12/15/08



Data File Name	: C:\HPCHEM\1\DATA\TVB41212\016R0101.D	Page Number	: 1
Operator	: Virginia Meyer	Vial Number	: 16
Instrument	: TVHBTEX4	Injection Number	: 1
Sample Name	: 08-9455-05A	Sequence Line	: 1
Run Time Bar Code:		Instrument Method:	TS40717M.MTH
Acquired on	: 12 Dec 08 08:57 PM	Analysis Method	: BS41205.MTH
Report Created on:	12 Dec 08 09:15 PM	Sample Amount	: 0
Last Recalib on	: 08 DEC 08 07:34 AM	ISTD Amount	:
Multiplier	: 1		
Sample Info	: SAMP VM 12-15-08		
	DF=1		

# Evergreen Analytical, Inc.

4036 Youngfield Street, Wheat Ridge, Colorado 80033-3862  
(303) 425-6021

Client Sample ID: MW24  
Client Project ID: 008-2067  
Date Collected: 12/10/08  
Date Received: 12/11/08

Lab Work Order: 08-9455  
Lab Sample ID: 08-9455-06A  
Sample Matrix: Water

## AROMATIC VOLATILE ORGANICS

Method: SW8021B

Prep Method: SW5030B

Date Prepared: 12/12/08

Lab File ID: TVB41212\017R

Dilution Factor: 1

Date Analyzed: 12/12/08

Method Blank: MB4121208

Analytes	CAS Number	Result	LQL	Units
Benzene	71-43-2	U	1.0	µg/L
Toluene	108-88-3	U	2.0	µg/L
Ethylbenzene	100-41-4	U	2.0	µg/L
m,p-Xylene	1330-20-7	U	2.0	µg/L
o-Xylene	95-47-6	U	2.0	µg/L
Surr: 1,2,4-Trichlorobenzene (S)	120-82-1	97	QC Limits: 60-140	%REC

VM

Analyst

87

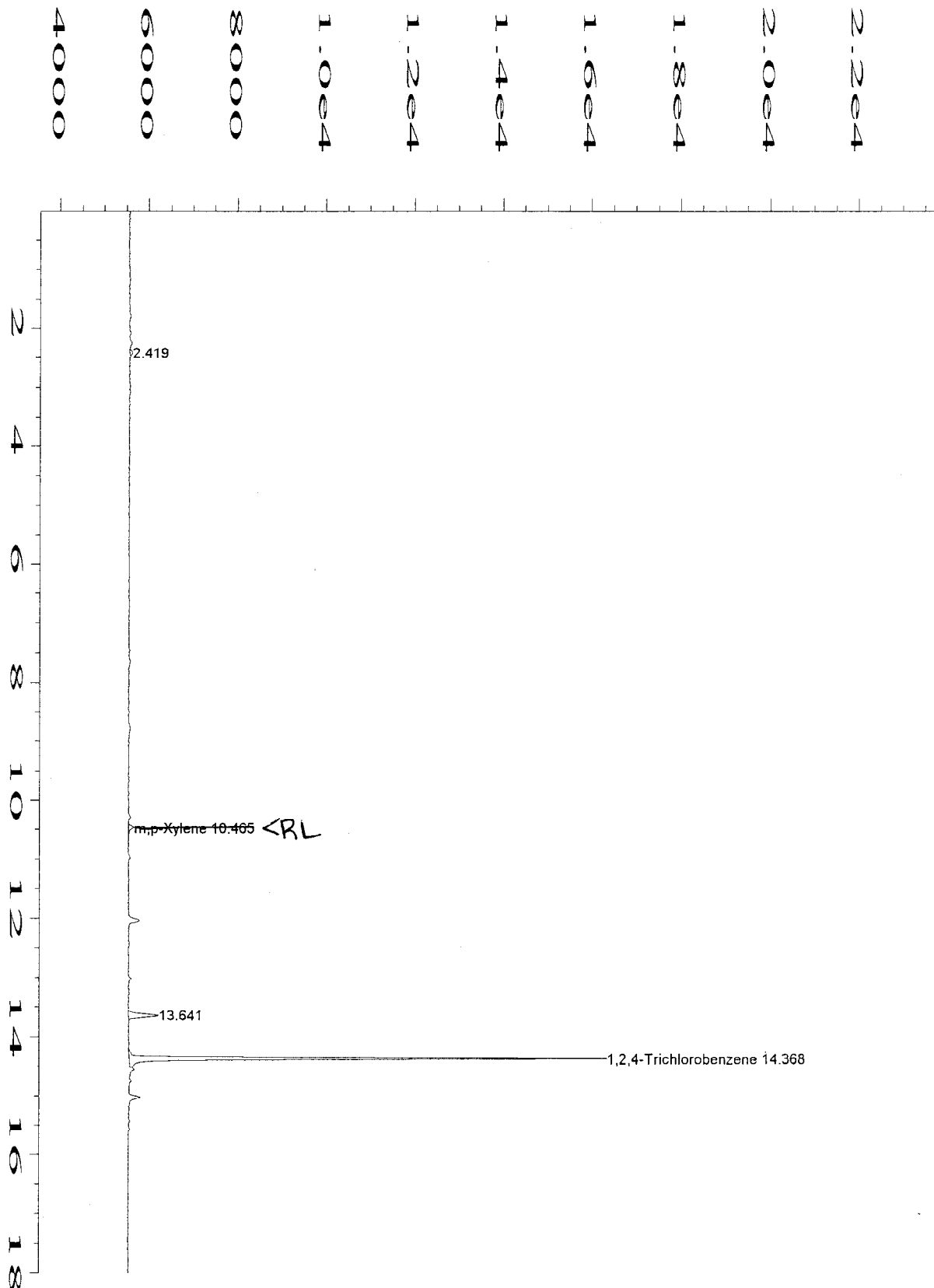
Approved

Notes: Total Xylenes consist of three isomers, two of which co-elute. The Xylene RL is for a single peak. Confirmation analysis was not performed.

**Qualifiers:** B - Analyte detected in the associated Method Blank, value not subtracted from result  
E - Extrapolated value. Value exceeds calibration range  
H - Sample analysis exceeded analytical holding time  
J - Indicates an estimated value when the compound is detected, but is below the LQL  
S - Spike Recovery outside accepted limits  
U - Compound analyzed for but not detected  
X - See case narrative  
\* - Value exceeded the Maximum Contamination Level (MCL), TCLP limit, or if compound is undetected, LQL exceeds MCL.

**Definitions:** LQL - Lower Quantitation Limit  
Surr - Surrogate

Print Date: 12/15/08



Data File Name	: C:\HPCHEM\1\DATA\TVB41212\017R0101.D	Page Number	: 1
Operator	: Virginia Meyer	Vial Number	: 17
Instrument	: TVHBTEX4	Injection Number	: 1
Sample Name	: 08-9455-06A	Sequence Line	: 1
Run Time Bar Code:		Instrument Method:	TS40717M.MTH
Acquired on	: 12 Dec 08 09:31 PM	Analysis Method	: BS41205.MTH
Report Created on:	12 Dec 08 09:50 PM	Sample Amount	: 0
Last Recalib on	: 08 DEC 08 07:34 AM	ISTD Amount	:
Multiplier	: 1		
Sample Info	: SAMP		
	DF=1		

VM 12.15.08

# Evergreen Analytical, Inc.

4036 Youngfield Street, Wheat Ridge, Colorado 80033-3862  
(303) 425-6021

Client Sample ID: DCS24-D  
Client Project ID: 008-2067  
Date Collected: 12/10/08  
Date Received: 12/11/08

Lab Work Order 08-9455  
Lab Sample ID: 08-9455-07A  
Sample Matrix: Water

## AROMATIC VOLATILE ORGANICS

Method: SW8021B

Prep Method: SW5030B

Date Prepared: 12/12/08

Lab File ID: TVB41212\018R

Dilution Factor: 1

Date Analyzed: 12/12/08

Method Blank: MB4121208

Analytes	CAS Number	Result	LQL	Units
Benzene	71-43-2	U	1.0	µg/L
Toluene	108-88-3	U	2.0	µg/L
Ethylbenzene	100-41-4	U	2.0	µg/L
m,p-Xylene	1330-20-7	U	2.0	µg/L
o-Xylene	95-47-6	U	2.0	µg/L
Surr: 1,2,4-Trichlorobenzene (S)	120-82-1	89	QC Limits: 60-140	%REC

VM

Analyst

27

Approved

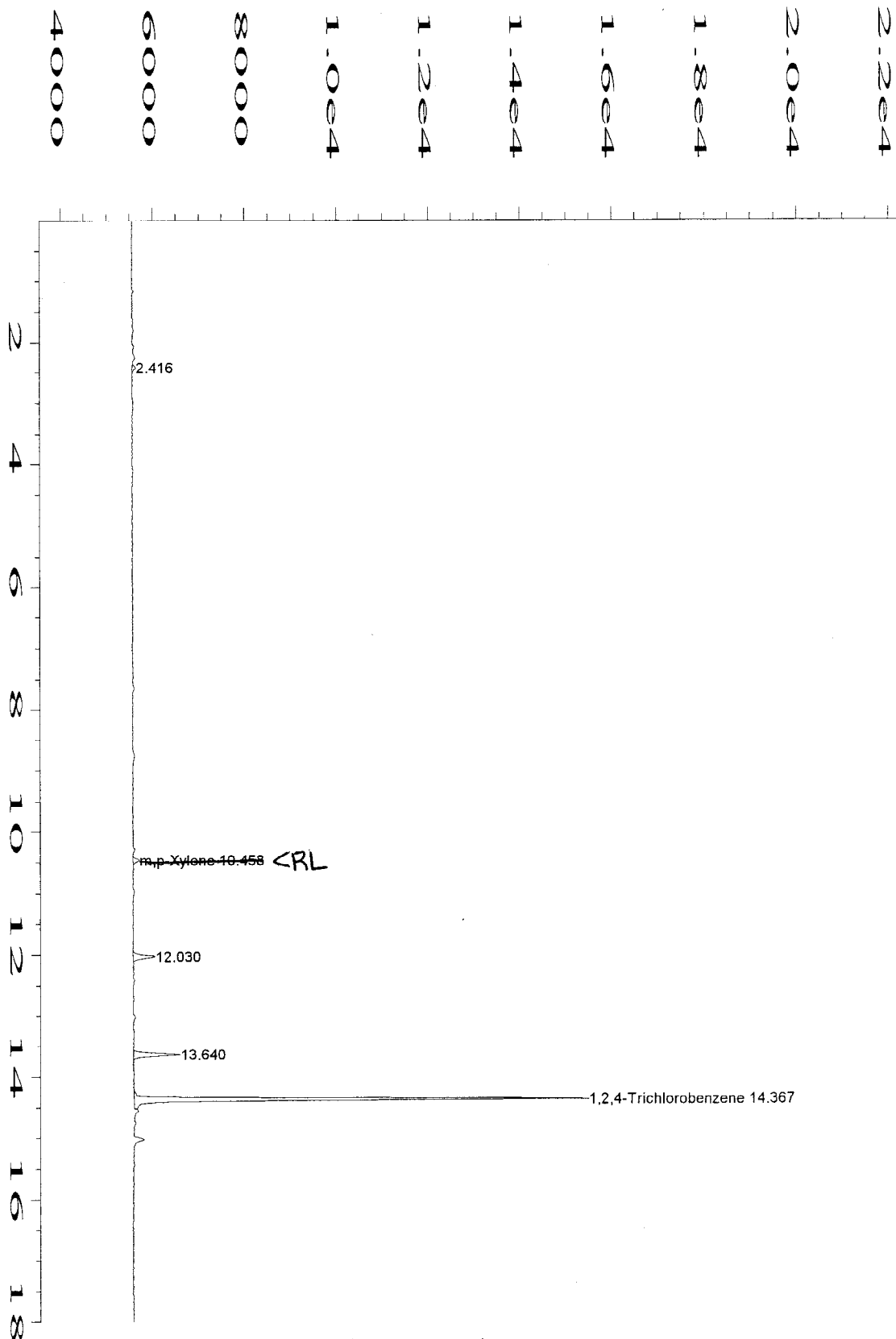
Notes: Total Xylenes consist of three isomers, two of which co-elute. The Xylene RI is for a single peak. Confirmation analysis was not performed.

**Qualifiers:** B - Analyte detected in the associated Method Blank, value not subtracted from result  
E - Extrapolated value. Value exceeds calibration range  
H - Sample analysis exceeded analytical holding time  
J - Indicates an estimated value when the compound is detected, but is below the LQL  
S - Spike Recovery outside accepted limits  
U - Compound analyzed for but not detected  
X - See case narrative  
\* - Value exceeded the Maximum Contamination Level (MCL), TCLP limit, or if compound is undetected, LQL exceeds MCL.

**Definitions:** LQL - Lower Quantitation Limit  
Surr - Surrogate

Print Date: 12/15/08





Data File Name	: C:\HPCHEM\1\DATA\TVB41212\018R0101.D	Page Number	: 1
Operator	: Virginia Meyer	Vial Number	: 18
Instrument	: TVHBTEX4	Injection Number	: 1
Sample Name	: 08-9455-07A	Sequence Line	: 1
Run Time Bar Code:		Instrument Method:	TS40717M.MTH
Acquired on	: 12 Dec 08 10:06 PM	Analysis Method	: BS41205.MTH
Report Created on:	12 Dec 08 10:25 PM	Sample Amount	: 0
Last Recalib on	: 08 DEC 08 07:34 AM	ISTD Amount	:
Multiplier	: 1		
Sample Info	: SAMP		
DF=1			

VM 12.15.08

# Evergreen Analytical, Inc.

4036 Youngfield Street, Wheat Ridge, Colorado 80033-3862  
(303) 425-6021

Client Sample ID: MW-2  
Client Project ID: 008-2067  
Date Collected: 12/10/08  
Date Received: 12/11/08

Lab Work Order 08-9455  
Lab Sample ID: 08-9455-08A  
Sample Matrix: Water

## AROMATIC VOLATILE ORGANICS

Method: SW8021B

Prep Method: SW5030B

Date Prepared: 12/12/08

Lab File ID: TVB41212\019R

Dilution Factor: 1

Date Analyzed: 12/12/08

Method Blank: MB4121208

Analytes	CAS Number	Result	LQL	Units
Benzene	71-43-2	140	1.0	µg/L
Toluene	108-88-3	U	2.0	µg/L
Ethylbenzene	100-41-4	4.0	2.0	µg/L
m,p-Xylene	1330-20-7	28	2.0	µg/L
o-Xylene	95-47-6	4.0	2.0	µg/L
Surr: 1,2,4-Trichlorobenzene (S)	120-82-1	95	QC Limits: 60-140	%REC

VM

Analyst

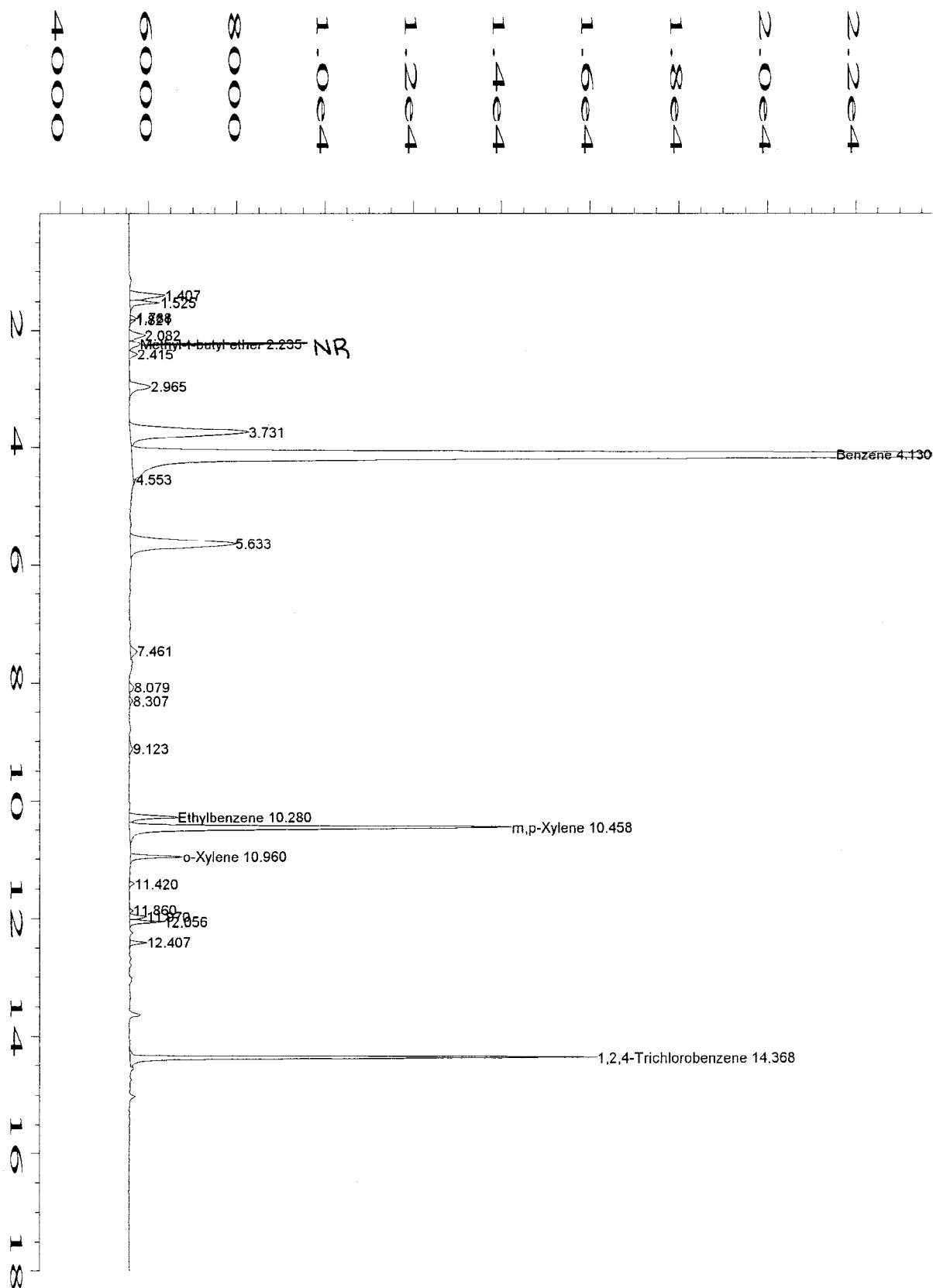
Approved

Notes: Total Xylenes consist of three isomers, two of which co-elute. The Xylene RL is for a single peak. Confirmation analysis was not performed.

**Qualifiers:** B - Analyte detected in the associated Method Blank, value not subtracted from result  
E - Extrapolated value. Value exceeds calibration range  
H - Sample analysis exceeded analytical holding time  
J - Indicates an estimated value when the compound is detected, but is below the LQL  
S - Spike Recovery outside accepted limits  
U - Compound analyzed for but not detected  
X - See case narrative  
\* - Value exceeded the Maximum Contamination Level (MCL), TCLP limit, or if compound is undetected, LQL exceeds MCL.

**Definitions:** LQL - Lower Quantitation Limit  
Surr - Surrogate

Print Date: 12/15/08



Data File Name : C:\HPCHEM\1\DATA\TVB41212\019R0101.D

Operator : Virginia Meyer

Page Number : 1

Instrument : TVHBTEX4

Vial Number : 19

Sample Name : 08-9455-08A

Injection Number : 1

Run Time Bar Code:

Sequence Line : 1

Acquired on : 12 Dec 08 10:41 PM

Instrument Method: TS40717M.MTH

Report Created on: 12 Dec 08 10:59 PM

Analysis Method : BS41205.MTH

Last Recalib on : 08 DEC 08 07:34 AM

Sample Amount : 0

Multiplier : 1

ISTD Amount :

Sample Info : SAMP

VM 12.15.08

DF=1

# Evergreen Analytical, Inc.

4036 Youngfield Street, Wheat Ridge, Colorado 80033-3862  
(303) 425-6021

Client Sample ID: DCS5  
Client Project ID: 008-2067  
Date Collected: 12/10/08  
Date Received: 12/11/08

Lab Work Order 08-9455  
Lab Sample ID: 08-9455-09A  
Sample Matrix: Water

## AROMATIC VOLATILE ORGANICS

Method: SW8021B

Prep Method: SW5030B

Date Prepared: 12/12/08

Lab File ID: TVB41212\020R

Dilution Factor: 1

Date Analyzed: 12/12/08

Method Blank: MB4121208

Analytes	CAS Number	Result	LQL	Units
Benzene	71-43-2	U	1.0	µg/L
Toluene	108-88-3	U	2.0	µg/L
Ethylbenzene	100-41-4	U	2.0	µg/L
m,p-Xylene	1330-20-7	U	2.0	µg/L
o-Xylene	95-47-6	U	2.0	µg/L
Surr: 1,2,4-Trichlorobenzene (S)	120-82-1	90	QC Limits: 60-140	%REC

VM

Analyst

27

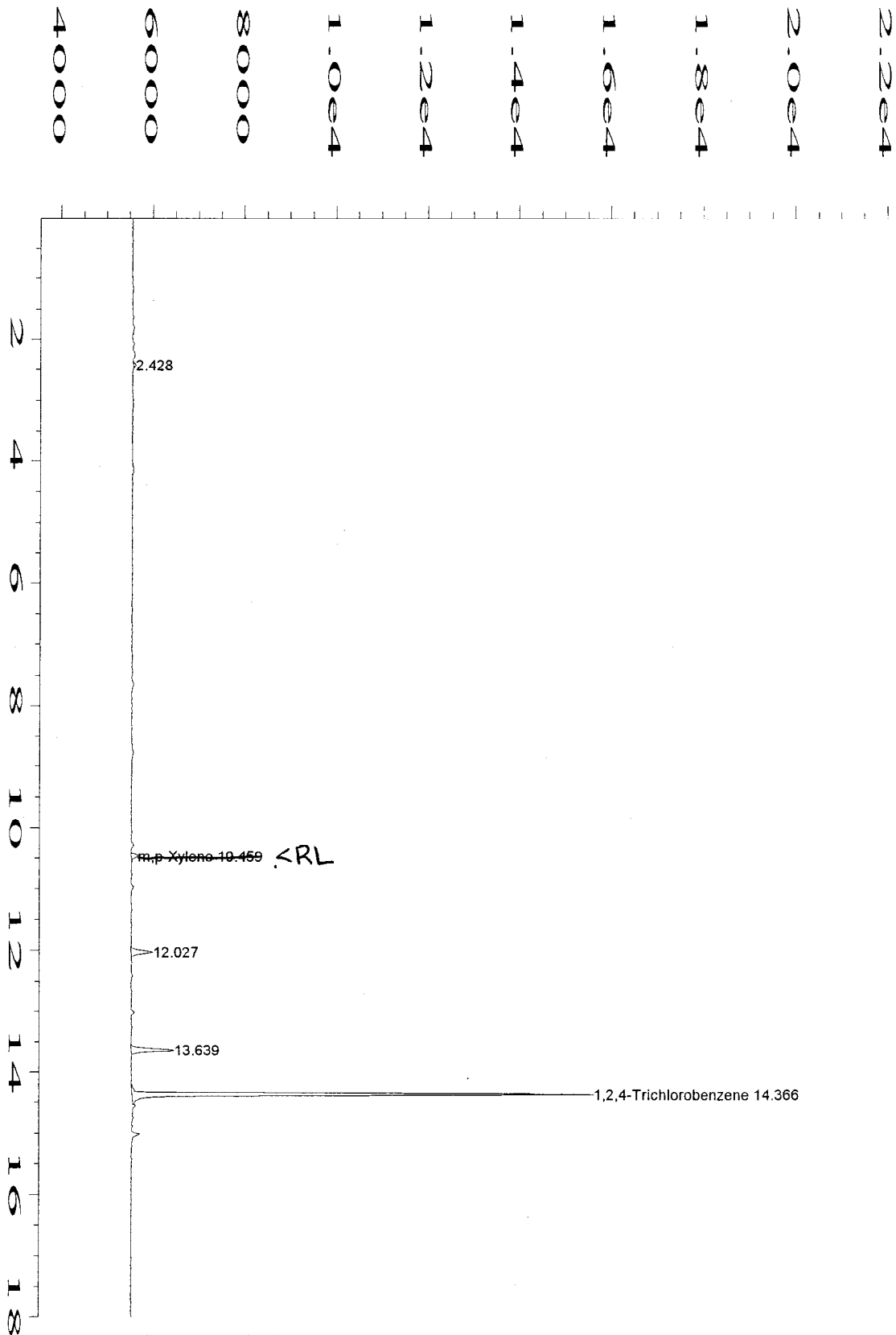
Approved

Notes: Total Xylenes consist of three isomers, two of which co-elute. The Xylene RL is for a single peak. Confirmation analysis was not performed.

**Qualifiers:** B - Analyte detected in the associated Method Blank, value not subtracted from result  
E - Extrapolated value. Value exceeds calibration range  
H - Sample analysis exceeded analytical holding time  
J - Indicates an estimated value when the compound is detected, but is below the LQL  
S - Spike Recovery outside accepted limits  
U - Compound analyzed for but not detected  
X - See case narrative  
\* - Value exceeded the Maximum Contamination Level (MCL), TCLP limit, or if compound is undetected, LQL exceeds MCL.

**Definitions:** LQL - Lower Quantitation Limit  
Surr - Surrogate

Print Date: 12/15/08



Data File Name	: C:\HPCHEM\1\DATA\TVB41212\020R0101.D	Page Number	: 1
Operator	: Virginia Meyer	Vial Number	: 20
Instrument	: TVHBTEX4	Injection Number	: 1
Sample Name	: 08-9455-09A	Sequence Line	: 1
Run Time Bar Code:		Instrument Method:	TS40717M.MTH
Acquired on	: 12 Dec 08 11:16 PM	Analysis Method	: BS41205.MTH
Report Created on:	12 Dec 08 11:34 PM	Sample Amount	: 0
Last Recalib on	: 08 DEC 08 07:34 AM	ISTD Amount	:
Multiplier	: 1		
Sample Info	: SAMP		
	DF=1		

VM 12-15-08

# Evergreen Analytical, Inc.

4036 Youngfield Street, Wheat Ridge, Colorado 80033-3862  
(303) 425-6021

Client Sample ID: DCS5-D  
Client Project ID: 008-2067  
Date Collected: 12/10/08  
Date Received: 12/11/08

Lab Work Order: 08-9455  
Lab Sample ID: 08-9455-10A  
Sample Matrix: Water

## AROMATIC VOLATILE ORGANICS

Method: SW8021B

Prep Method: SW5030B

Date Prepared: 12/12/08

Lab File ID: TVB41212\021R

Dilution Factor: 1

Date Analyzed: 12/12/08

Method Blank: MB4121208

Analytes	CAS Number	Result	LQL	Units
Benzene	71-43-2	U	1.0	µg/L
Toluene	108-88-3	U	2.0	µg/L
Ethylbenzene	100-41-4	U	2.0	µg/L
m,p-Xylene	1330-20-7	U	2.0	µg/L
o-Xylene	95-47-6	U	2.0	µg/L
Surr: 1,2,4-Trichlorobenzene (S)	120-82-1	92	QC Limits: 60-140	%REC

YM

Analyst

7

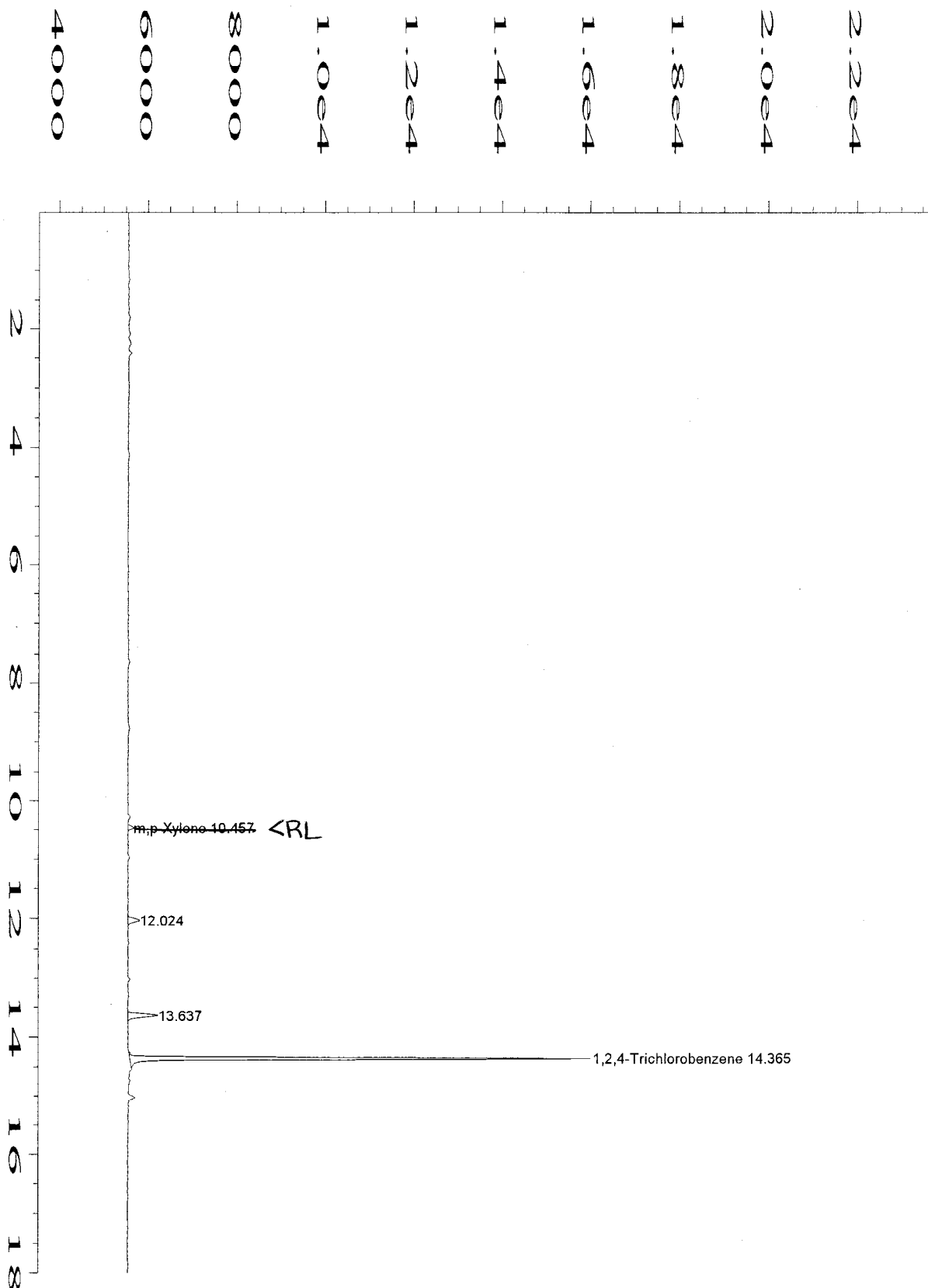
Approved

Notes: Total Xylenes consist of three isomers, two of which co-elute. The Xylene RL is for a single peak. Confirmation analysis was not performed.

**Qualifiers:** B - Analyte detected in the associated Method Blank, value not subtracted from result  
E - Extrapolated value. Value exceeds calibration range  
H - Sample analysis exceeded analytical holding time  
J - Indicates an estimated value when the compound is detected, but is below the LQL  
S - Spike Recovery outside accepted limits  
U - Compound analyzed for but not detected  
X - See case narrative  
\* - Value exceeded the Maximum Contamination Level (MCL), TCLP limit, or if compound is undetected, LQL exceeds MCL.

**Definitions:** LQL - Lower Quantitation Limit  
Surr - Surrogate

Print Date: 12/15/08



Data File Name	: C:\HPCHEM\1\DATA\TVB41212\021R0101.D	Page Number	: 1
Operator	: Virginia Meyer	Vial Number	: 21
Instrument	: TVHBTEX4	Injection Number	: 1
Sample Name	: 08-9455-10A	Sequence Line	: 1
Run Time Bar Code:		Instrument Method:	TS40717M.MTH
Acquired on	: 12 Dec 08 11:50 PM	Analysis Method	: BS41205.MTH
Report Created on:	13 Dec 08 00:09 AM	Sample Amount	: 0
Last Recalib on	: 08 DEC 08 07:34 AM	ISTD Amount	:
Multiplier	: 1		
Sample Info	: SAMP		
	DF=1		

VM 12.15.08

# Evergreen Analytical, Inc.

4036 Youngfield Street, Wheat Ridge, Colorado 80033-3862  
(303) 425-6021

Client Sample ID: DCS4  
Client Project ID: 008-2067  
Date Collected: 12/10/08  
Date Received: 12/11/08

Lab Work Order 08-9455  
Lab Sample ID: 08-9455-11A  
Sample Matrix: Water

## AROMATIC VOLATILE ORGANICS

Method: SW8021B

Prep Method: SW5030B

Date Prepared: 12/12/08

Lab File ID: TVB41212\022R

Dilution Factor: 1

Date Analyzed: 12/13/08

Method Blank: MB4121208

Analytes	CAS Number	Result	LQL	Units
Benzene	71-43-2	U	1.0	µg/L
Toluene	108-88-3	U	2.0	µg/L
Ethylbenzene	100-41-4	U	2.0	µg/L
m,p-Xylene	1330-20-7	U	2.0	µg/L
o-Xylene	95-47-6	U	2.0	µg/L
Surr: 1,2,4-Trichlorobenzene (S)	120-82-1	93	QC Limits: 60-140	%REC

VM

Analyst



Approved

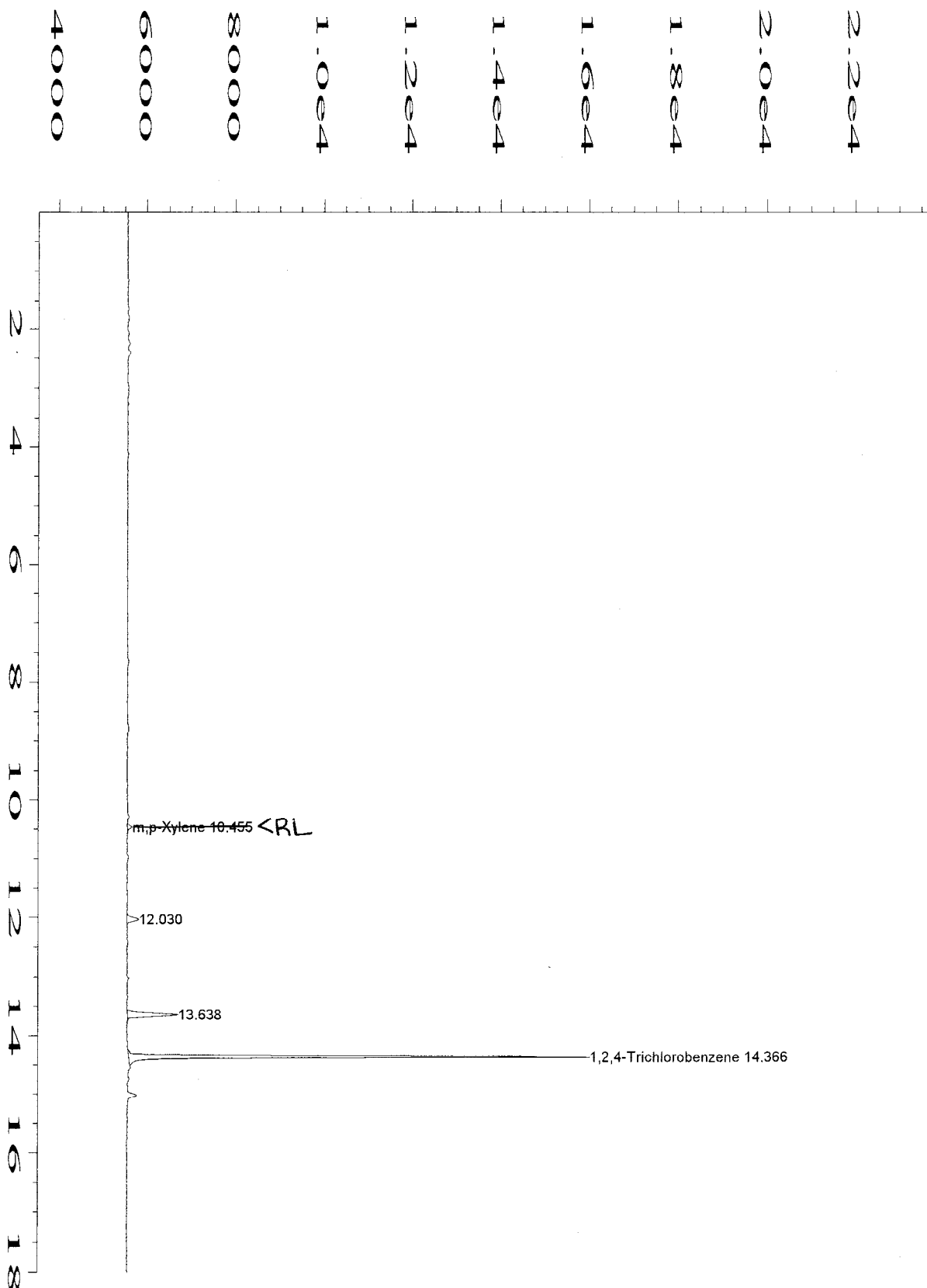
Notes: Total Xylenes consist of three isomers, two of which co-elute. The Xylene RL is for a single peak. Confirmation analysis was not performed.

**Qualifiers:** B - Analyte detected in the associated Method Blank, value not subtracted from result  
E - Extrapolated value. Value exceeds calibration range  
H - Sample analysis exceeded analytical holding time  
J - Indicates an estimated value when the compound is detected, but is below the LQL  
S - Spike Recovery outside accepted limits  
U - Compound analyzed for but not detected  
X - See case narrative  
\* - Value exceeded the Maximum Contamination Level (MCL), TCLP limit, or if compound is undetected, LQL exceeds MCL.

**Definitions:** LQL - Lower Quantitation Limit  
Surr - Surrogate

Print Date: 12/15/08





Data File Name	: C:\HPCHEM\1\DATA\TVB41212\022R0101.D	Page Number	: 1
Operator	: Virginia Meyer	Vial Number	: 22
Instrument	: TVHBTEX4	Injection Number	: 1
Sample Name	: 08-9455-11A	Sequence Line	: 1
Run Time Bar Code:		Instrument Method:	TS40717M.MTH
Acquired on	: 13 Dec 08 00:25 AM	Analysis Method	: BS41205.MTH
Report Created on:	13 Dec 08 00:44 AM	Sample Amount	: 0
Last Recalib on	: 08 DEC 08 07:34 AM	ISTD Amount	:
Multiplier	: 1		
Sample Info	: SAMP		
	DF=1		

VM 12.15.08

# Evergreen Analytical, Inc.

4036 Youngfield Street, Wheat Ridge, Colorado 80033-3862

(303) 425-6021

Client Sample ID: DCS1  
 Client Project ID: 008-2067  
 Date Collected: 12/10/08  
 Date Received: 12/11/08

Lab Work Order 08-9455  
 Lab Sample ID: 08-9455-12A  
 Sample Matrix: Water

## AROMATIC VOLATILE ORGANICS

Method: SW8021B

Prep Method: SW5030B

Date Prepared: 12/12/08

Lab File ID: TVB41212\023R

Dilution Factor: 1

Date Analyzed: 12/13/08

Method Blank: MB4121208

Analytes	CAS Number	Result	LQL	Units
Benzene	71-43-2	U	1.0	µg/L
Toluene	108-88-3	U	2.0	µg/L
Ethylbenzene	100-41-4	U	2.0	µg/L
m,p-Xylene	1330-20-7	U	2.0	µg/L
o-Xylene	95-47-6	U	2.0	µg/L
Surr: 1,2,4-Trichlorobenzene (S)	120-82-1	87	QC Limits: 60-140	%REC

VM

Analyst

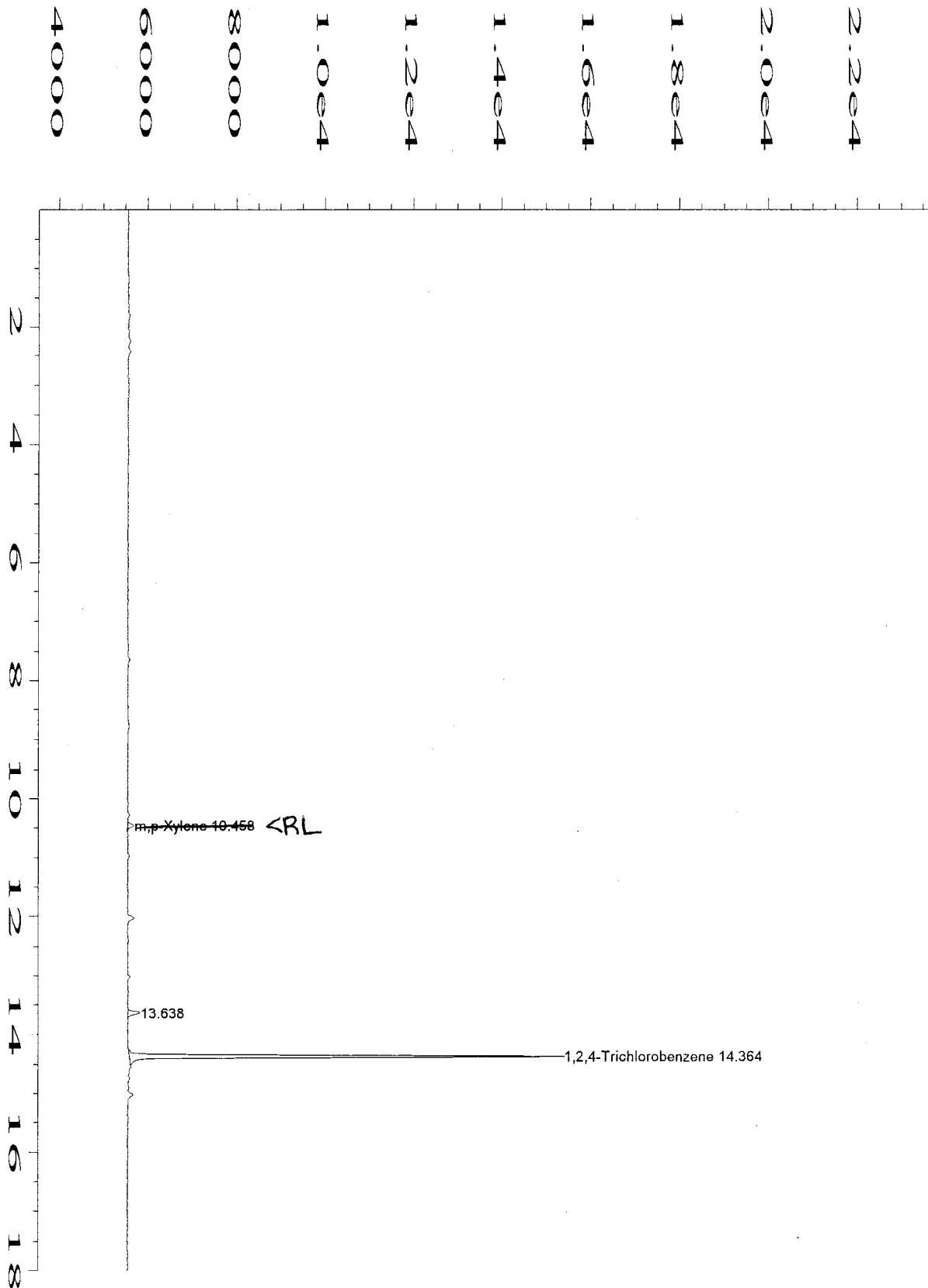
17  
Approved

Notes: Total Xylenes consist of three isomers, two of which co-elute. The Xylene RL is for a single peak. Confirmation analysis was not performed.

**Qualifiers:** B - Analyte detected in the associated Method Blank, value not subtracted from result  
 E - Extrapolated value. Value exceeds calibration range  
 H - Sample analysis exceeded analytical holding time  
 J - Indicates an estimated value when the compound is detected, but is below the LQL  
 S - Spike Recovery outside accepted limits  
 U - Compound analyzed for but not detected  
 X - See case narrative  
 \* - Value exceeded the Maximum Contamination Level (MCL), TCLP limit, or if compound is undetected, LQL exceeds MCL.

**Definitions:** LQL - Lower Quantitation Limit  
 Surr - Surrogate

Print Date: 12/15/08



Data File Name	: C:\HPCHEM\1\DATA\TVB41212\023R0101.D	Page Number	: 1
Operator	: Virginia Meyer	Vial Number	: 23
Instrument	: TVHBTEX4	Injection Number	: 1
Sample Name	: 08-9455-12A	Sequence Line	: 1
Run Time Bar Code:		Instrument Method:	TS40717M.MTH
Acquired on	: 13 Dec 08 01:00 AM	Analysis Method	: BS41205.MTH
Report Created on:	13 Dec 08 01:18 AM	Sample Amount	: 0
Last Recalib on	: 08 DEC 08 07:34 AM	ISTD Amount	:
Multiplier	: 1		
Sample Info	: SAMP		
	DF=1		

VM 12.15.08

## Evergreen Analytical, Inc.

4036 Youngfield Street, Wheat Ridge, Colorado 80033-3862  
(303) 425-6021

Client Project ID 008-2067

Lab Order: 08-9455  
Units:  $\mu\text{mhos/cm}$

Specific Conductance @ 25°C  
Specific Conductance

Method: SM2510 B

Prep Method: SM2510 B

Lab ID	Client ID	Matrix	Date Received	Collection Date	Date Prepared	Date Analyzed	Results	LQL	DF
08-9455-01B	DCS8	Water	12/11/08	12/10/08	12/17/08	12/17/08	915	1.00	1
08-9455-02B	DCS7	Water	12/11/08	12/10/08	12/17/08	12/17/08	913	1.00	1
08-9455-03B	DCS6	Water	12/11/08	12/10/08	12/17/08	12/17/08	912	1.00	1
08-9455-04B	DCS3	Water	12/11/08	12/10/08	12/17/08	12/17/08	917	1.00	1
08-9455-05B	DCS2	Water	12/11/08	12/10/08	12/17/08	12/17/08	915	1.00	1
08-9455-06B	MW24	Water	12/11/08	12/10/08	12/17/08	12/17/08	638	1.00	1
08-9455-07B	MW24-D	Water	12/11/08	12/10/08	12/17/08	12/17/08	650	1.00	1
08-9455-08B	MW-2	Water	12/11/08	12/10/08	12/17/08	12/17/08	803	1.00	1
08-9455-09B	DCS5	Water	12/11/08	12/10/08	12/17/08	12/17/08	925	1.00	1
08-9455-10B	DCS5-D	Water	12/11/08	12/10/08	12/17/08	12/17/08	923	1.00	1
08-9455-11B	DCS4	Water	12/11/08	12/10/08	12/17/08	12/17/08	913	1.00	1
08-9455-12B	DCS1	Water	12/11/08	12/10/08	12/17/08	12/17/08	944	1.00	1

Comments:



Analyst



Approved

Qualifiers: J - Indicates an estimated value when the compound is detected, but is below the LQL

H - Sample analysis exceeded analytical holding time

U - Compound analyzed for but not detected

X - See case narrative

\* - Value exceeds Maximum Contamination Level (MCL), TCLP limit, or if compound is undetected, LQL exceeds MCL.

Definitions: DF - Dilution Factor

LQL - Lower Quantitation Limit

Print Date: 12/19/08

**Evergreen Analytical, Inc.**  
 4036 Youngfield Street, Wheat Ridge, Colorado 80033-3862  
 (303) 425-6021

Client Project ID 008-2067

Lab Order: 08-9455  
 Units: pH Units

**E150.1 pH**

Method: E150.1

Prep Method: E150.1

Lab ID	Client ID	Matrix	Date Received	Collection Date	Date Prepared	Date Analyzed	Results	LQL	DF
08-9455-01B	DCS8	Water	12/11/08	12/10/08 1100	12/11/08	12/11/08 1045	8.42	1.00	1
08-9455-02B	DCS7	Water	12/11/08	12/10/08 1115	12/11/08	12/11/08 1045	8.45	1.00	1
08-9455-03B	DCS6	Water	12/11/08	12/10/08 1130	12/11/08	12/11/08 1045	8.47	1.00	1
08-9455-04B	DCS3	Water	12/11/08	12/10/08 1200	12/11/08	12/11/08 1045	8.51	1.00	1
08-9455-05B	DCS2	Water	12/11/08	12/10/08 1220	12/11/08	12/11/08 1045	8.52	1.00	1
08-9455-06B	MW24	Water	12/11/08	12/10/08 1330	12/11/08	12/11/08 1045	7.52	1.00	1
08-9455-07B	MW24-D	Water	12/11/08	12/10/08 1330	12/11/08	12/11/08 1045	7.49	1.00	1
08-9455-08B	MW-2	Water	12/11/08	12/10/08 1105	12/11/08	12/11/08 1045	7.58	1.00	1
08-9455-09B	DCS5	Water	12/11/08	12/10/08 1140	12/11/08	12/11/08 1045	8.50	1.00	1
08-9455-10B	DCS5-D	Water	12/11/08	12/10/08 1140	12/11/08	12/11/08 1045	8.50	1.00	1
08-9455-11B	DCS4	Water	12/11/08	12/10/08 1230	12/11/08	12/11/08 1045	8.54	1.00	1
08-9455-12B	DCS1	Water	12/11/08	12/10/08 1300	12/11/08	12/11/08 1045	8.54	1.00	1

Comments:

Analyst

Approved

Qualifiers: J - Indicates an estimated value when the compound is detected, but is below the LQL

H - Sample analysis exceeded analytical holding time

U - Compound analyzed for but not detected

X - See case narrative

\* - Value exceeds Maximum Contamination Level(MCL), TCLP limit, or if compound is undetected, LQL exceeds MCL.

Definitions: DF - Dilution Factor

LQL - Lower Quantitation Limit

Print Date: 12/19/08

**Evergreen Analytical, Inc.**  
 4036 Youngfield Street, Wheat Ridge, Colorado 80033-3862  
 (303) 425-6021

Client Project ID 008-2067

Lab Order: 08-9455  
 Units: mg/L


**Total Dissolved Solids (TDS)**  
**Total Dissolved Solids**

Method: SM 2540C

Prep Method: SM 2540C

Lab ID	Client ID	Matrix	Date Received	Collection Date	Date Prepared	Date Analyzed	Results	LQL	DF
08-9455-01B	DCS8	Water	12/11/08	12/10/08	12/17/08	12/17/08	637	10.0	1
08-9455-02B	DCS7	Water	12/11/08	12/10/08	12/17/08	12/17/08	635	10.0	1
08-9455-03B	DCS6	Water	12/11/08	12/10/08	12/17/08	12/17/08	637	10.0	1
08-9455-04B	DCS3	Water	12/11/08	12/10/08	12/17/08	12/17/08	645	10.0	1
08-9455-05B	DCS2	Water	12/11/08	12/10/08	12/17/08	12/17/08	641	10.0	1
08-9455-06B	MW24	Water	12/11/08	12/10/08	12/17/08	12/17/08	420	10.0	1
08-9455-07B	MW24-D	Water	12/11/08	12/10/08	12/17/08	12/17/08	421	10.0	1
08-9455-08B	MW-2	Water	12/11/08	12/10/08	12/17/08	12/17/08	527	10.0	1
08-9455-09B	DCS5	Water	12/11/08	12/10/08	12/17/08	12/17/08	638	10.0	1
08-9455-10B	DCS5-D	Water	12/11/08	12/10/08	12/17/08	12/17/08	636	10.0	1
08-9455-11B	DCS4	Water	12/11/08	12/10/08	12/17/08	12/17/08	633	10.0	1
08-9455-12B	DCS1	Water	12/11/08	12/10/08	12/17/08	12/17/08	639	10.0	1

Comments:

  
 \_\_\_\_\_  
 Analyst

  
 \_\_\_\_\_  
 Approved

**Qualifiers:** J - Indicates an estimated value when the compound is detected, but is below the LQL  
 H - Sample analysis exceeded analytical holding time  
 U - Compound analyzed for but not detected  
 X - See case narrative  
 \*-Value exceeds Maximum Contamination Level(MCL), TCLP limit, or if compound is undetected, LQL exceeds MCL.

**Definitions:** DF - Dilution Factor  
 LQL - Lower Quantitation Limit

Print Date: 12/19/08

**Evergreen Analytical, Inc.**  
 4036 Youngfield Street, Wheat Ridge, Colorado 80033-3862  
 (303) 425-6021

Client Project ID 008-2067

Lab Order: 08-9455

Units: mg/L

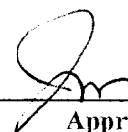
**RSKSOP-175M Headspace****Methane****Method: RSKSOP175M****Prep Method: RSKSOP175M**

Lab ID	Client ID	Matrix	Date Received	Collection Date	Date Prepared	Date Analyzed	Results	LQL	DF
08-9455-01C	DCS8	Water	12/11/08	12/10/08	12/11/08	12/11/08	0.0060	0.00080	1
08-9455-02C	DCS7	Water	12/11/08	12/10/08	12/11/08	12/11/08	0.0083	0.00080	1
08-9455-03C	DCS6	Water	12/11/08	12/10/08	12/11/08	12/11/08	0.085	0.0080	10
08-9455-04C	DCS3	Water	12/11/08	12/10/08	12/11/08	12/11/08	0.067	0.0080	10
08-9455-05C	DCS2	Water	12/11/08	12/10/08	12/11/08	12/11/08	0.0022	0.00080	1
08-9455-06C	MW24	Water	12/11/08	12/10/08	12/11/08	12/11/08	U	0.00080	1
08-9455-07C	DCS24-D	Water	12/11/08	12/10/08	12/11/08	12/11/08	U	0.00080	1
08-9455-08C	MW-2	Water	12/11/08	12/10/08	12/11/08	12/11/08	7.3	0.040	50
08-9455-09C	DCS5	Water	12/11/08	12/10/08	12/11/08	12/11/08	0.0066	0.00080	1
08-9455-10C	DCS5-D	Water	12/11/08	12/10/08	12/11/08	12/11/08	0.0062	0.00080	1
08-9455-11C	DCS4	Water	12/11/08	12/10/08	12/11/08	12/11/08	0.0060	0.00080	1
08-9455-12C	DCS1	Water	12/11/08	12/10/08	12/11/08	12/11/08	U	0.00080	1

**Comments:**

\_\_\_\_\_  
 VM

**Analyst**

\_\_\_\_\_  


**Approved**

**Qualifiers:** J - Indicates an estimated value when the compound is detected, but is below the LQL  
 H - Sample analysis exceeded analytical holding time  
 U - Compound analyzed for but not detected  
 X - See case narrative  
 \* - Value exceeds Maximum Contamination Level(MCL), TCLP limit, or if compound is undetected, LQL exceeds MCL.

**Definitions:** DF - Dilution Factor  
 LQL - Lower Quantitation Limit

Print Date: 12/11/08

# Evergreen Analytical, Inc.

4036 Youngfield Street, Wheat Ridge, Colorado 80033-3862  
(303) 425-6021

Client Project ID 008-2067

Date Received: 12/11/08

Lab Order: 08-9455

Date Prepared: 12/12/08

Units: mg/L

## Dissolved Metals

### Sodium

Method: SW6010B

Prep Method: E200.7/SW3010A

Lab ID	Client ID	Matrix	Date Collected	Date Analyzed	Results	LQL	DF
08-9455-01D	DCS8	Water	12/10/08	12/13/08	110 B	0.40	1
08-9455-02D	DCS7	Water	12/10/08	12/13/08	110 B	0.40	1
08-9455-03D	DCS6	Water	12/10/08	12/13/08	110 B	0.40	1
08-9455-04D	DCS3	Water	12/10/08	12/13/08	110 B	0.40	1
08-9455-05D	DCS2	Water	12/10/08	12/15/08	120 B	0.40	1
08-9455-06D	MW24	Water	12/10/08	12/15/08	42 B	0.40	1
08-9455-07D	MW24-D	Water	12/10/08	12/15/08	41 B	0.40	1
08-9455-08D	MW-2	Water	12/10/08	12/15/08	120 B	0.40	1
08-9455-09D	DCS5	Water	12/10/08	12/15/08	110 B	0.40	1
08-9455-10D	DCS5-D	Water	12/10/08	12/15/08	110 B	0.40	1
08-9455-11D	DCS4	Water	12/10/08	12/15/08	110 B	0.40	1
08-9455-12D	DCS1	Water	12/10/08	12/15/08	110 B	0.40	1



Analyst



Approved

**Qualifiers:** B - Analyte detected in the associated Method Blank, value not subtracted from result  
E - Extrapolated value. Value exceeds calibration range  
H - Sample analysis exceeded analytical holding time  
J - Indicates an estimated value when the compound is detected, but is below the LQL  
S - Spike Recovery outside accepted limits  
U - Compound analyzed for but not detected  
X - See case narrative  
\* - Value exceeded the Maximum Contamination Level (MCL), TCLP limit, or if compound is undetected, LQL exceeds MCL.

**Definitions:** DF - Dilution Factor  
PF - Prep Factor  
LQL - Lower Quantitation Limit

Print Date: 12/19/2008



## **QUALITY ASSURANCE REPORTS**

**METHOD BLANKS (MB)**

**LABORATORY CONTROL SPIKES (LCS)**

**MATRIX SPIKES (MS/MSD)\***

**DUPLICATES (DUP)\***

- **For Metals or Wet Chemistry analyses: only included if requested.**

Work Order: 08-9455

Client Project ID: 008-2067

## ANALYTICAL QC SUMMARY REPORT

BatchID: R44037

Sample ID	MB4121208	SampType: MBLK	TestCode: 8021_W	Run ID: TVHBTEX4_081212A	Prep Date: 12/12/2008	Units: µg/L					
		Batch ID: R44037	TestNo: SW8021B	FileID: TVB412121001R	Analysis Date: 12/12/2008	SeqNo: 780522					
Analyte	Result	LQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Benzene	U	1.0
Toluene	U	2.0
Ethylbenzene	U	2.0
m,p-Xylene	U	2.0
o-Xylene	U	2.0

Sample ID	MEB4121208	SampType: MBLK	TestCode: 8021_W	Run ID: TVHBTEX4_081212A	Prep Date: 12/12/2008	Units: µg/L					
		Batch ID: R44037	TestNo: SW8021B	FileID: TVB412121027R	Analysis Date: 12/13/2008	SeqNo: 780541					
Analyte	Result	LQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Benzene	U	100
Toluene	U	200
Ethylbenzene	U	200
m,p-Xylene	U	200
o-Xylene	U	200

Sample ID	LCS4121108	SampType: LCS	TestCode: 8021_W	Run ID: TVHBTEX4_081212A	Prep Date: 12/12/2008	Units: µg/L					
		Batch ID: R44037	TestNo: SW8021B	FileID: TVB412121002R	Analysis Date: 12/12/2008	SeqNo: 780523					
Analyte	Result	LQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Benzene	26.53	1.0	25.5	0	104	70	130	0	0
Toluene	189.8	2.0	183.6	0	103	70	130	0	0
Ethylbenzene	36.76	2.0	36.8	0	99.9	70	130	0	0
m,p-Xylene	145.8	2.0	136.3	0	107	70	130	0	0
o-Xylene	58.72	2.0	57.2	0	103	70	130	0	0

**Qualifiers:**

- U - Not detected at or above the Reporting Limit
- J - Analyte detected below quantitation limits
- S - Spike Recovery outside acceptance limits
- E - Extrapolated value, value exceeds calibration range.

- R - RPD outside acceptance limits
- B - Analyte detected in the associated Method Blank
- H - Prep or analytical holding time exceeded
- X - See case narrative

Work Order: 08-9455  
Client Project ID: 008-2067

## ANALYTICAL QC SUMMARY REPORT

BatchID: R44037

Sample ID	08-9455-01AMS	SampType:	MS	TestCode:	8021_W	Run ID:	TVHBTEX4_081212A	Prep Date:	12/12/2008	Units:	µg/L
Client ID:	DCS8	Batch ID:	R44037	TestNo:	SW8021B	FileID:	TVB412121007R	Analysis Date:	12/12/2008	SeqNo:	780528
Analyte	Result	LQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	26.64	1.0	25.5	0	104	70	130	0	0		
Toluene	189.3	2.0	183.6	0	103	70	130	0	0		
Ethylbenzene	37.2	2.0	36.8	0	101	62	130	0	0		
m,p-Xylene	146.7	2.0	136.3	0	108	70	134	0	0		
o-Xylene	58.88	2.0	57.2	0	103	63	130	0	0		

Sample ID	08-9455-01AMSD	SampType:	MSD	TestCode:	8021_W	Run ID:	TVHBTEX4_081212A	Prep Date:	12/12/2008	Units:	µg/L
Client ID:	DCS8	Batch ID:	R44037	TestNo:	SW8021B	FileID:	TVB412121008R	Analysis Date:	12/12/2008	SeqNo:	780529
Analyte	Result	LQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	26.42	1.0	25.5	0	104	70	130	26.64	0.833	30	
Toluene	189.7	2.0	183.6	0	103	70	130	189.3	0.193	30	
Ethylbenzene	36.76	2.0	36.8	0	99.9	62	130	37.2	1.18	30	
m,p-Xylene	146.9	2.0	136.3	0	108	70	134	146.7	0.128	30	
o-Xylene	58.65	2.0	57.2	0	103	63	130	58.88	0.395	30	

**Qualifiers:**  
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J - Analyte detected below quantitation limits  
S - Spike Recovery outside acceptance limits  
E - Extrapolated value, value exceeds calibration range.

R - RPD outside acceptance limits  
B - Analyte detected in the associated Method Blank  
H - Prep or analytical holding time exceeded  
X - See case narrative

Work Order: 08-9455

Client Project ID: 008-2067

## ANALYTICAL QC SUMMARY REPORT

TestCode: COND\_W

Sample ID: <b>LCS</b>	SampType: <b>LCS</b>	TestCode: <b>COND_W</b>	Run ID: <b>COND_081217A</b>	Prep Date: <b>12/17/08</b>	Units: <b>µmhos/cm</b>						
	Batch ID: <b>R44095</b>	TestNo: <b>SM2510 B</b>	FileID: <b>54</b>	Analysis Date: <b>12/17/08</b>	SeqNo: <b>781489</b>						
Analyte	Result	LQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Specific Conductance	91.4	1.00	100.1	0	91.3	90	110	0	0		

## Qualifiers:

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E - Extrapolated value, value exceeds calibration range.

R - RPD outside acceptance limits  
B - Analyte detected in the associated Method Blank  
H - Prep or analytical holding time exceeded  
X - See case narrative

Work Order: 08-9455  
Client Project ID: 008-2067

## ANALYTICAL QC SUMMARY REPORT

TestCode: PH\_DW

Sample ID: <b>LCS-R43985</b>		SampType: <b>LCS</b>		TestCode: <b>PH_DW</b>		Run ID: <b>PH_081211B</b>		Prep Date: <b>12/11/08</b>		Units: <b>pH Units</b>	
		Batch ID: <b>R43985</b>		TestNo: <b>E150.1</b>		FileID:		Analysis Date: <b>12/11/08</b>		SeqNo: <b>779413</b>	
Analyte	Result	LQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
pH	7.97	1.00	8	0	99.6	99.3	100.7	0	0		

### Qualifiers:

U - Not detected at or above the Reporting Limit  
J - Analyte detected below quantitation limits  
S - Spike Recovery outside acceptance limits  
E - Extrapolated value, value exceeds calibration range.

R - RPD outside acceptance limits  
B - Analyte detected in the associated Method Blank  
H - Prep or analytical holding time exceeded  
X - See case narrative

Work Order: 08-9455  
Client Project ID: 008-2067

## ANALYTICAL QC SUMMARY REPORT

TestCode: TDS\_W

Sample ID: <b>MBLK 12/17/08</b>	SampType: <b>MBLK</b>	TestCode: <b>TDS_W</b>	Run ID: <b>ANALYTICAL BALANCE_081218A</b>	Prep Date: <b>12/17/08</b>	Units: <b>mg/L</b>
	Batch ID: <b>R44129</b>	TestNo: <b>SM 2540C</b>	FileID: <b>1</b>	Analysis Date: <b>12/17/08</b>	SeqNo: <b>782036</b>
Analyte	Result	LQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Total Dissolved Solids U 10.0

Sample ID: <b>LCS</b>	SampType: <b>LCS</b>	TestCode: <b>TDS_W</b>	Run ID: <b>ANALYTICAL BALANCE_081218A</b>	Prep Date: <b>12/17/08</b>	Units: <b>mg/L</b>
	Batch ID: <b>R44129</b>	TestNo: <b>SM 2540C</b>	FileID: <b>2</b>	Analysis Date: <b>12/17/08</b>	SeqNo: <b>782037</b>
Analyte	Result	LQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Total Dissolved Solids 406 10.0 400 0 102 90 110 0 0

### Qualifiers:

U - Not detected at or above the Reporting Limit  
J - Analyte detected below quantitation limits  
S - Spike Recovery outside acceptance limits  
E - Extrapolated value, value exceeds calibration range.

R - RPD outside acceptance limits  
B - Analyte detected in the associated Method Blank  
H - Prep or analytical holding time exceeded  
X - See case narrative

Work Order: 08-9455  
Client Project ID: 008-2067

## ANALYTICAL QC SUMMARY REPORT

BatchID: GAS121108-2

Sample ID: <b>GB121108-2</b>	SampType: <b>MBLK</b>	TestCode: <b>MEEP_W</b>	Run ID: <b>FID4_081211A</b>	Prep Date: <b>12/11/08</b>	Units: <b>mg/L</b>						
Batch ID: <b>GAS121108-</b>	TestNo: <b>RSKSOP175</b>	FileID: <b>GAS121127</b>	Analysis Date: <b>12/11/08</b>	SeqNo: <b>779630</b>							
Analyte	Result	LQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Methane U 0.00080

Sample ID: LCS121108-2	SampType: LCS	TestCode: MEEP_W	Run ID: FID4_081211A	Prep Date: 12/11/08	Units: mg/L						
Batch ID: GAS121108-	TestNo: RSKSOP175	FileID: GAS121128	Analysis Date: 12/11/08	SeqNo: 779632							
Analyte	Result	LQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Methane 0.5903 0.0080 0.5094 0 116 70 130 0 0

Sample ID: LCSD121108-2	SampType: LCSD	TestCode: MEEP_W	Run ID: FID4_081211A	Prep Date: 12/11/08	Units: mg/L						
Batch ID: GAS121108-	TestNo: RSKSOP175	FileID: GAS121129	Analysis Date: 12/11/08	SeqNo: 779634							
Analyte	Result	LQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Methane 0.5832 0.0080 0.5094 0 114 70 130 0.5903 1.21 30

Sample ID: 08-9492-02AMS	SampType: MS	TestCode: MEEP_W	Run ID: FID4_081211A	Prep Date: 12/11/08	Units: mg/L						
Batch ID: GAS121108-	TestNo: RSKSOP175	FileID: GAS121148	Analysis Date: 12/11/08	SeqNo: 779626							
Analyte	Result	LQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Methane 0.7383 0.0080 0.5094 0.3118 83.7 70 130 0 0

Sample ID: 08-9492-02AMSD	SampType: MSD	TestCode: MEEP_W	Run ID: FID4_081211A	Prep Date: 12/11/08	Units: mg/L						
Batch ID: GAS121108-	TestNo: RSKSOP175	FileID: GAS121149	Analysis Date: 12/11/08	SeqNo: 779627							
Analyte	Result	LQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Methane 0.7132 0.0080 0.5094 0.3118 78.8 70 130 0.7383 3.46 30

## Qualifiers:

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S - Spike Recovery outside acceptance limits  
E - Extrapolated value, value exceeds calibration range.R - RPD outside acceptance limits  
B - Analyte detected in the associated Method Blank  
H - Prep or analytical holding time exceeded  
X - See case narrative

Work Order: 08-9455

Client Project ID: 008-2067

## ANALYTICAL QC SUMMARY REPORT

BatchID: 17525

Sample ID: MB-17525	SampType: MBLK	TestCode: 200.7_D	Run ID: ICP-OPTIMA 5300 DV_081213A	Prep Date: 12/12/2008	Units: mg/L						
	Batch ID: 17525	TestNo: E200.7, Rev.	FileID: 121308AM	Analysis Date: 12/13/2008	SeqNo: 780717						
Analyte	Result	LQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Sodium	0.4439	0.400									
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Sample ID: <b>LCS-17525</b>	SampType: <b>LCS</b>	TestCode: <b>200.7_D</b>	Run ID: <b>ICP-OPTIMA 5300 DV_081213A</b>	Prep Date: <b>12/12/2008</b>	Units: <b>mg/L</b>						
	Batch ID: <b>17525</b>	TestNo: <b>E200.7, Rev.</b>	FileID: <b>121308AM</b>	Analysis Date: <b>12/13/2008</b>	SeqNo: <b>780718</b>						
Analyte	Result	LQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Sodium	10.23	0.400	10	0.4439	97.9	80	120	0	0		B
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Sample ID: 08-9455-01DMS	SampType: MS	TestCode: 6010_D	Run ID: ICP-OPTIMA 5300 DV_081213A	Prep Date: 12/12/2008	Units: mg/L						
Client ID: DCS8	Batch ID: 17525	TestNo: SW6010B	FileID: 121308AM	Analysis Date: 12/13/2008	SeqNo: 780720						
Analyte	Result	LQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Sodium	123.1	0.50	12.5	110.9	97.1	75	125	0	0		B
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Sample ID: 08-9455-01DMSD	SampType: MSD	TestCode: 6010_D	Run ID: ICP-OPTIMA 5300 DV_081213A	Prep Date: 12/12/2008	Units: mg/L						
Client ID: DCS8	Batch ID: 17525	TestNo: SW6010B	FileID: 121308AM	Analysis Date: 12/13/2008	SeqNo: 780721						
Analyte	Result	LQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

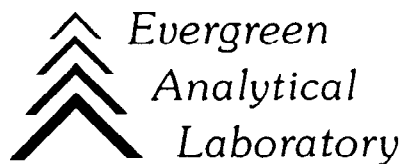
Sodium	122	0.50	12.5	110.9	88.2	75	125	123.1	0.913	20	B
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## Qualifiers:

U - Not detected at or above the Reporting Limit  
J - Analyte detected below quantitation limits  
S - Spike Recovery outside acceptance limits  
E - Extrapolated value, value exceeds calibration range.

R - RPD outside acceptance limits  
B - Analyte detected in the associated Method Blank  
H - Prep or analytical holding time exceeded  
X - See case narrative





December 23, 2008

Stuart Hall  
Cordilleran Compliance  
826 21 1/2 Road  
Grand Junction, CO 81505

Lab Work Order: 08-9455  
Client Project ID: 008-2067

Dear Stuart Hall:

Enclosed are the analytical results for the samples shown in the Laboratory Work Order Summary. The invoice is included with this report or has been mailed to another party as indicated on the chain of custody.

The enclosed data for testing performed at Evergreen Analytical Laboratory (EAL) have been reviewed for quality assurance. A case narrative is included to describe any anomalies associated with the samples or data.

EAL will dispose of all samples 44 days from the sample receipt date. If you want samples returned, please advise us by mail or fax as soon as possible.

A copy of this project report and supporting data will be retained for a period of five years unless we are otherwise advised by you. A document retrieval charge will apply.

Thank you for using the services of Evergreen Analytical. If you have any questions concerning the analytical data, please contact me. Please direct other questions to Client Services.

Sincerely,



Kaprie Hollman/Carl Smits  
Quality Assurance



## ANALYTICAL SUMMARY REPORT

January 13, 2009

Cordilleran Compliance Services Inc  
826 21½ Rd  
Grand Junction, CO 81505

Workorder No.: C08120437

Project Name: Divide Creek Quarterly 008-2067

Energy Laboratories, Inc. received the following 3 samples for Cordilleran Compliance Services Inc on 12/11/2008 for analysis.

Sample ID	Client Sample ID	Collect Date	Receive Date	Matrix	Test
C08120437-001	MW26	12/09/08 12:45	12/11/08	Aqueous	Metals by ICP/ICPMS, Total Conductivity SW8021B, BTEX Methane pH Metals Preparation by EPA 200.2 Solids, Total Dissolved
C08120437-002	MW24	12/10/08 13:30	12/11/08	Aqueous	Same As Above
C08120437-003	DCS5	12/10/08 11:40	12/11/08	Aqueous	Same As Above

As appropriate, any exceptions or problems with the analyses are noted in the Laboratory Analytical Report, the QA/QC Summary Report, or the Case Narrative.

If you have any questions regarding these tests results, please call.

Report Approved By: *Stephanie Waldey*



## LABORATORY ANALYTICAL REPORT

**Client:** Cordilleran Compliance Services Inc  
**Project:** Divide Creek Quarterly 008-2067  
**Lab ID:** C08120437-001  
**Client Sample ID:** MW26

**Report Date:** 01/13/09  
**Collection Date:** 12/09/08 12:45  
**Date Received:** 12/11/08  
**Matrix:** Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
<b>MAJOR IONS</b>							
Sodium	84	mg/L		1		E200.7	12/17/08 16:39 / cp
<b>PHYSICAL PROPERTIES</b>							
Conductivity	733	umhos/cm		1		A2510 B	12/12/08 12:52 / dd
pH	8.01	s.u.		0.01		A4500-H B	12/12/08 12:52 / dd
Solids, Total Dissolved TDS @ 180 C	473	mg/L		10		A2540 C	12/12/08 13:01 / ab
<b>VOLATILE ORGANIC COMPOUNDS</b>							
Benzene	ND	ug/L		1.0		SW8021B	12/16/08 18:02 / jlr
Ethylbenzene	ND	ug/L		1.0		SW8021B	12/16/08 18:02 / jlr
m+p-Xylenes	ND	ug/L		1.0		SW8021B	12/16/08 18:02 / jlr
o-Xylene	ND	ug/L		1.0		SW8021B	12/16/08 18:02 / jlr
Toluene	ND	ug/L		1.0		SW8021B	12/16/08 18:02 / jlr
Surr: Trifluorotoluene	116	%REC		80-120		SW8021B	12/16/08 18:02 / jlr
<b>NATURAL GAS COMPOUNDS</b>							
Methane	0.145	mg/L		0.001		SW8015M	12/16/08 08:10 / eli-b

**Report**  
**Definitions:** RL - Analyte reporting limit.  
QCL - Quality control limit.

MCL - Maximum contaminant level.  
ND - Not detected at the reporting limit.



## LABORATORY ANALYTICAL REPORT

**Client:** Cordilleran Compliance Services Inc  
**Project:** Divide Creek Quarterly 008-2067  
**Lab ID:** C08120437-002  
**Client Sample ID:** MW24

**Report Date:** 01/13/09  
**Collection Date:** 12/10/08 13:30  
**Date Received:** 12/11/08  
**Matrix:** Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
<b>MAJOR IONS</b>							
Sodium	41	mg/L		1		E200.7	12/23/08 14:36 / cp
<b>PHYSICAL PROPERTIES</b>							
Conductivity	608	umhos/cm		1		A2510 B	12/12/08 12:54 / dd
pH	8.01	s.u.		0.01		A4500-H B	12/12/08 12:54 / dd
Solids, Total Dissolved TDS @ 180 C	369	mg/L		10		A2540 C	12/12/08 13:01 / ab
<b>VOLATILE ORGANIC COMPOUNDS</b>							
Benzene	ND	ug/L		1.0		SW8021B	12/16/08 18:38 / jlr
Ethylbenzene	ND	ug/L		1.0		SW8021B	12/16/08 18:38 / jlr
m+p-Xylenes	ND	ug/L		1.0		SW8021B	12/16/08 18:38 / jlr
o-Xylene	ND	ug/L		1.0		SW8021B	12/16/08 18:38 / jlr
Toluene	ND	ug/L		1.0		SW8021B	12/16/08 18:38 / jlr
Surr: Trifluorotoluene	113	%REC		80-120		SW8021B	12/16/08 18:38 / jlr
<b>NATURAL GAS COMPOUNDS</b>							
Methane	ND	mg/L		0.001		SW8015M	12/16/08 08:15 / eli-b

**Report Definitions:** RL - Analyte reporting limit.  
QCL - Quality control limit.

MCL - Maximum contaminant level.  
ND - Not detected at the reporting limit.



## LABORATORY ANALYTICAL REPORT

**Client:** Cordilleran Compliance Services Inc  
**Project:** Divide Creek Quarterly 008-2067  
**Lab ID:** C08120437-003  
**Client Sample ID:** DCS5

**Report Date:** 01/13/09  
**Collection Date:** 12/10/08 11:40  
**Date Received:** 12/11/08  
**Matrix:** Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
<b>MAJOR IONS</b>							
Sodium	118	mg/L		1		E200.7	12/23/08 14:40 / cp
<b>PHYSICAL PROPERTIES</b>							
Conductivity	974	umhos/cm		1		A2510 B	12/12/08 12:56 / dd
pH	8.49	s.u.		0.01		A4500-H B	12/12/08 12:56 / dd
Solids, Total Dissolved TDS @ 180 C	578	mg/L		10		A2540 C	12/12/08 13:02 / ab
<b>VOLATILE ORGANIC COMPOUNDS</b>							
Benzene	ND	ug/L		1.0		SW8021B	12/16/08 19:49 / jlr
Ethylbenzene	ND	ug/L		1.0		SW8021B	12/16/08 19:49 / jlr
m+p-Xylenes	ND	ug/L		1.0		SW8021B	12/16/08 19:49 / jlr
o-Xylene	ND	ug/L		1.0		SW8021B	12/16/08 19:49 / jlr
Toluene	ND	ug/L		1.0		SW8021B	12/16/08 19:49 / jlr
Surr: Trifluorotoluene	113	%REC		80-120		SW8021B	12/16/08 19:49 / jlr
<b>NATURAL GAS COMPOUNDS</b>							
Methane	0.003	mg/L		0.001		SW8015M	12/16/08 08:19 / eli-b

**Report**  
**Definitions:** RL - Analyte reporting limit.  
QCL - Quality control limit.

MCL - Maximum contaminant level.  
ND - Not detected at the reporting limit.



## QA/QC Summary Report

Client: Cordilleran Compliance Services Inc  
Project: Divide Creek Quarterly 008-2067

Report Date: 01/13/09  
Work Order: C08120437

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2510 B							Analytical Run: ORION555A_081212A		
Sample ID: ICV2_081212_1	Initial Calibration Verification Standard								12/12/08 12:38
Conductivity	1440	umhos/cm	1.0	102	90	110			
Method: A2510 B							Batch: 081212_1_PH-W_555A-1		
Sample ID: MBLK1_081212_1	Method Blank						Run: ORION555A_081212A		12/12/08 12:33
Conductivity	1	umhos/cm	0.2						
Sample ID: C08120443-002ADUP	Sample Duplicate						Run: ORION555A_081212A		12/12/08 13:07
Conductivity	1660	umhos/cm	1.0						
Method: A2540 C							Batch: 081212_1_SLDS-TDS-W		
Sample ID: MBLK1_081212	Method Blank						Run: BAL-1_081212C		12/12/08 12:50
Solids, Total Dissolved TDS @ 180 C	ND	mg/L	6						
Sample ID: LCS1_081212	Laboratory Control Sample						Run: BAL-1_081212C		12/12/08 12:50
Solids, Total Dissolved TDS @ 180 C	992	mg/L	10	99	90	110			
Sample ID: C08120414-001AMS	Sample Matrix Spike						Run: BAL-1_081212C		12/12/08 12:59
Solids, Total Dissolved TDS @ 180 C	2890	mg/L	10	98	90	110			
Sample ID: C08120414-001AMSD	Sample Matrix Spike Duplicate						Run: BAL-1_081212C		12/12/08 12:59
Solids, Total Dissolved TDS @ 180 C	2920	mg/L	10	100	90	110	1.1	10	
Sample ID: C08120443-005AMS	Sample Matrix Spike						Run: BAL-1_081212C		12/12/08 13:03
Solids, Total Dissolved TDS @ 180 C	2500	mg/L	10	101	90	110			
Sample ID: C08120443-005AMSD	Sample Matrix Spike Duplicate						Run: BAL-1_081212C		12/12/08 13:04
Solids, Total Dissolved TDS @ 180 C	2490	mg/L	10	100	90	110	0.7	10	
Method: A4500-H B							Analytical Run: ORION555A_081212A		
Sample ID: ICV1_081212_1	Initial Calibration Verification Standard								12/12/08 12:35
pH	6.93	s.u.	0.010	101	98	102			
Method: A4500-H B							Batch: 081212_1_PH-W_555A-1		
Sample ID: C08120443-002ADUP	Sample Duplicate						Run: ORION555A_081212A		12/12/08 13:07
pH	7.17	s.u.	0.010						

### Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



## QA/QC Summary Report

Client: Cordilleran Compliance Services Inc  
Project: Divide Creek Quarterly 008-2067

Report Date: 01/13/09  
Work Order: C08120437

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7									Batch: 20845
Sample ID: MB-20845	Method Blank					Run: ICP2-C_081217A			12/17/08 15:14
Sodium	ND	mg/L	0.5						
Sample ID: LCS3-20845	Laboratory Control Sample					Run: ICP2-C_081217A			12/17/08 15:18
Sodium	25.0	mg/L	1.0	100	85	115			
Sample ID: C08120509-002CMS3	Sample Matrix Spike					Run: ICP2-C_081217A			12/17/08 16:55
Sodium	129	mg/L	1.0		70	130			A
Sample ID: C08120509-002CMSD3	Sample Matrix Spike Duplicate					Run: ICP2-C_081217A			12/17/08 16:59
Sodium	134	mg/L	1.0		70	130	3.9	20	A
Method: E200.7									Batch: R112677
Sample ID: MB-081223A	Method Blank					Run: ICP2-C_081223A			12/23/08 10:36
Sodium	ND	mg/L	0.8						
Sample ID: LFB-081223A	Laboratory Fortified Blank					Run: ICP2-C_081223A			12/23/08 10:40
Sodium	50.7	mg/L	0.77	101	85	125			
Sample ID: C08120211-001CMS2	Sample Matrix Spike					Run: ICP2-C_081223A			12/23/08 13:47
Sodium	145	mg/L	1.1	103	70	130			
Sample ID: C08120211-001CMSD2	Sample Matrix Spike Duplicate					Run: ICP2-C_081223A			12/23/08 13:51
Sodium	145	mg/L	1.1	103	70	130	0	20	
Method: SW8015M									Analytical Run: SUB-B122190
Sample ID: CCV	Continuing Calibration Verification Standard								12/16/08 08:06
Methane	940	ppm	2.0	94	85	115			
Sample ID: CCV2	Continuing Calibration Verification Standard								12/16/08 09:13
Methane	92	ppm	2.0	98	80	120			
Method: SW8015M									Batch: B_R122190
Sample ID: MBLK	Method Blank					Run: SUB-B122190			12/16/08 08:08
Methane	ND	mg/L	0.0010						
Sample ID: C08120437-001A	Sample Duplicate					Run: SUB-B122190			12/16/08 08:13
Methane	0.146	mg/L	0.0010				0.6	30	

### Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

A - The analyte level was greater than four times the spike level. In accordance with the method % recovery is not calculated.



## QA/QC Summary Report

**Client:** Cordilleran Compliance Services Inc  
**Project:** Divide Creek Quarterly 008-2067

**Report Date:** 01/13/09  
**Work Order:** C08120437

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
<b>Method: SW8021B</b>							Batch: R112387		
<b>Sample ID: LCS_1216HP208r</b>	Laboratory Control Sample			Run: PIDFID1-C_081216A			12/16/08 16:17		
Benzene	12	ug/L	0.50	117	80	120			
Ethylbenzene	11	ug/L	0.50	114	80	120			
m+p-Xylenes	23	ug/L	0.50	114	80	120			
o-Xylene	11	ug/L	0.50	114	80	120			
Toluene	12	ug/L	0.50	116	80	120			
Surr: Trifluorotoluene			0.50	109	80	120			
<b>Sample ID: MBLK_1216HP210r</b>	Method Blank			Run: PIDFID1-C_081216A			12/16/08 17:27		
Benzene	ND	ug/L	0.50						
Ethylbenzene	ND	ug/L	0.50						
m+p-Xylenes	ND	ug/L	0.50						
o-Xylene	ND	ug/L	0.50						
Toluene	ND	ug/L	0.50						
Surr: Trifluorotoluene			0.50	112	80	120			
<b>Sample ID: C08120437-003BMS</b>	Sample Matrix Spike			Run: PIDFID1-C_081216A			12/16/08 20:25		
Benzene	240	ug/L	10	119	80	120			
Ethylbenzene	240	ug/L	10	118	80	120			
m+p-Xylenes	470	ug/L	10	118	80	120			
o-Xylene	230	ug/L	10	117	80	120			
Toluene	240	ug/L	10	118	80	120			
Surr: Trifluorotoluene			10	114	80	120			
<b>Sample ID: C08120437-003BMSD</b>	Sample Matrix Spike Duplicate			Run: PIDFID1-C_081216A			12/16/08 21:01		
Benzene	240	ug/L	10	121	80	120	1.8	20	S
Ethylbenzene	240	ug/L	10	120	80	120	1.8	20	
m+p-Xylenes	480	ug/L	10	120	80	120	1.8	20	
o-Xylene	240	ug/L	10	119	80	120	1.7	20	
Toluene	240	ug/L	10	121	80	120	1.8	20	S
Surr: Trifluorotoluene			10	115	80	120	0	10	

### Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

S - Spike recovery outside of advisory limits.





# Chain of Custody and Analytical Request Record

Page 1 of 1

PLEASE PRINT- Provide as much information as possible.

Company Name: <b>CORDILLERA Compliance</b>		Project Name, PWS, Permit, Etc. <b>DIVINE CREEK QUARTERLY</b>		Sample Origin State: <b>CO</b>		EPA/State Compliance: Yes <input type="checkbox"/> No <input type="checkbox"/>			
Report Mail Address: <b>826 21 1/2 Rd, GRAND JCT, CO 81505</b>		Contact Name: <b>STUART HALL</b>		Phone/Fax: <b>970 263-7800</b>		Email: <b>shall@oacconsulting.com</b>		Sampler: (Please Print) <b>JESS VANN</b>	
Invoice Address: <b>SAME</b>		Invoice Contact & Phone: <b>CANDY SMITH 970 263-7800</b>		Purchase Order:		Quote/Bottle Order:			
Special Report/Formats - ELI must be notified prior to sample submittal for the following: <div><input type="checkbox"/> DW <input type="checkbox"/> GSA <input type="checkbox"/> POTW/MWTP State: <input type="checkbox"/> <input type="checkbox"/> Other: <input type="checkbox"/></div> <div><input type="checkbox"/> A2LA <input type="checkbox"/> EDD/EDT (Electronic Data) Format: <input type="checkbox"/> LEVEL IV <input type="checkbox"/> NELAC</div>		ANALYSIS REQUESTED <div><b>SEE ATTACHED</b></div> <div><b>BTEX 8021</b></div> <div><b>DISS. METHANE</b></div> <div><b>TDS, SPEC, PH</b></div> <div><b>SODIUM W/HDR3</b></div>		Normal Turnaround (TAT)		Contact ELI prior to RUSH sample submittal for charges and scheduling - See Instruction Page		Shipped by: <b>UPS AIR N.O.A.</b>	
SAMPLE IDENTIFICATION (Name, Location, Interval, etc.)		Collection Date		Collection Time		Matrix		Number of Containers Air Water Soils/Solids Vegetation Bioassay Other	
1 MW 26		12/9/08		1245		W		X	
2 MW 24		12/10/08		1330		W		X	
3 DCS5		12/10/08		1140		W		X	
4									
5									
6									
7									
8									
9									
10									
Custody Record MUST be Signed		Relinquished by (print): <b>JESS VANN</b>		Date/Time: <b>12/10/08-1700</b>		Signature: <i>[Signature]</i>		Received by (print): <b>KWore</b>	
Sample Disposal:		Return to Client:		Date/Time: <b>12-11-08 9:30</b>		Signature: <i>[Signature]</i>		Received by Laboratory: <b>KWore</b>	
Relinquished by (print):		Date/Time:		Signature:		Received by (print):		Date/Time:	

LABORATORY USE ONLY

In certain circumstances, samples submitted to Energy Laboratories, Inc. may be subcontracted to other certified laboratories in order to complete the analysis requested. This serves as notice of this possibility. All sub-contract data will be clearly notated on your analytical report. Visit our web site at [www.energylab.com](http://www.energylab.com) for additional information, downloadable fee schedule, forms, and links.

# Energy Laboratories Inc

## Workorder Receipt Checklist



C08120437

Login completed by: Kimberly Humiston

Date and Time Received: 12/11/2008 9:30 AM

Reviewed by:

Received by: kw

Reviewed Date:

Carrier name: Next Day Air

Shipping container/cooler in good condition?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Not Present <input type="checkbox"/>
Custody seals intact on shipping container/cooler?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Not Present <input type="checkbox"/>
Custody seals intact on sample bottles?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Not Present <input checked="" type="checkbox"/>
Chain of custody present?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Chain of custody signed when relinquished and received?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Chain of custody agrees with sample labels?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Samples in proper container/bottle?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sample containers intact?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sufficient sample volume for indicated test?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
All samples received within holding time?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Container/Temp Blank temperature:	1°C On Ice		
Water - VOA vials have zero headspace?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	No VOA vials submitted <input type="checkbox"/>
Water - pH acceptable upon receipt?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Not Applicable <input type="checkbox"/>

-----  
Contact and Corrective Action Comments:

None



**CLIENT:** Cordilleran Compliance Services Inc  
**Project:** Divide Creek Quarterly 008-2067  
**Sample Delivery Group:** C08120437

**Date:** 13-Jan-09

## CASE NARRATIVE

### ORIGINAL SAMPLE SUBMITTAL(S)

All original sample submittals have been returned with the data package.

### SAMPLE TEMPERATURE COMPLIANCE: 4°C (±2°C)

Temperature of samples received may not be considered properly preserved by accepted standards. Samples that are hand delivered immediately after collection shall be considered acceptable if there is evidence that the chilling process has begun.

### GROSS ALPHA ANALYSIS

Method 900.0 for gross alpha and gross beta is intended as a drinking water method for low TDS waters. Data provided by this method for non potable waters should be viewed as inconsistent.

### RADON IN AIR ANALYSIS

The desired exposure time is 48 hours (2 days). The time delay in returning the canister to the laboratory for processing should be as short as possible to avoid excessive decay. Maximum recommended delay between end of exposure to beginning of counting should not exceed 8 days.

### SOIL/SOLID SAMPLES

All samples reported on an as received basis unless otherwise indicated.

### ATRAZINE, SIMAZINE AND PCB ANALYSIS USING EPA 505

Data for Atrazine and Simazine are reported from EPA 525.2, not from EPA 505. Data reported by ELI using EPA method 505 reflects the results for seven individual Aroclors. When the results for all seven are ND (not detected), the sample meets EPA compliance criteria for PCB monitoring.

### SUBCONTRACTING ANALYSIS

Subcontracting of sample analyses to an outside laboratory may be required. If so, ENERGY LABORATORIES will utilize its branch laboratories or qualified contract laboratories for this service. Any such laboratories will be indicated within the Laboratory Analytical Report.

### BRANCH LABORATORY LOCATIONS

eli-b - Energy Laboratories, Inc. - Billings, MT  
eli-g - Energy Laboratories, Inc. - Gillette, WY  
eli-h - Energy Laboratories, Inc. - Helena, MT  
eli-r - Energy Laboratories, Inc. - Rapid City, SD  
eli-t - Energy Laboratories, Inc. - College Station, TX

### CERTIFICATIONS:

USEPA: WY00002; FL-DOH NELAC: E87641; California: 02118CA  
Oregon: WY200001; Utah: 3072350515; Virginia: 00057; Washington: C1903

### ISO 17025 DISCLAIMER:

The results of this Analytical Report relate only to the items submitted for analysis.

ENERGY LABORATORIES, INC. - CASPER, WY certifies that certain method selections contained in this report meet requirements as set forth by the above accrediting authorities. Some results requested by the client may not be covered under these certifications. All analysis data to be submitted for regulatory enforcement should be certified in the sample state of origin. Please verify ELI's certification coverage by visiting [www.energylab.com](http://www.energylab.com)

ELI appreciates the opportunity to provide you with this analytical service. For additional information and services visit our web page [www.energylab.com](http://www.energylab.com).

THIS IS THE FINAL PAGE OF THE LABORATORY ANALYTICAL REPORT

Cordilleran Compliance Services, Inc. 826 21 1/2 Road Grand Junction, CO 81505				Alternate billing information:  <div style="font-size: 24pt; text-align: center;">SAME</div>				Analysis/Container/Preservative <div style="writing-mode: vertical-rl; transform: rotate(180deg);">           DISSOLVED METHANE            DISSOLVED METALS (FIELD FILTERED)            ANION (Br, Cl, F, SO4, NO3, NO2)            TDS, SPEC. PH, ALKALINITY            AMMONIA            SULFIDE            BART         </div>				Chain of Custody Page 1 of 1							
Project Description:  Phone: 970-263-7800 FAX: 970-263-7456				Client Project #: <div style="font-size: 24pt;">008-2417</div>		Report to: Email to: <u>stuart.hall@cordcomp.com</u> City/State Collected: <u>CO</u> <u>com</u>				Prepared by:  <div style="text-align: center;"> <b>ENVIRONMENTAL SCIENCE CORP.</b>          12065 Lebanon Road          Mt. Juliet, TN 37122          Phone (615) 758-5858          Phone (800) 767-5859          FAX (615) 758-5859       </div>									
Collected by: <u>JESS VANN</u>				Site/Facility ID#:		ESC Key:				P.O.#:									
Collected by (signature): 				[Rush?] (Lab MUST Be Notified) _____ Same Day.....200% _____ Next Day.....100% _____ Two Day.....50%		Date Results Needed: Email? <input type="checkbox"/> No <input checked="" type="checkbox"/> Yes FAX? <input type="checkbox"/> No <input type="checkbox"/> Yes		No. of Cntrs		CoCode Corocomgco (lab use only) Template/Prelogin Shipped Via:									
Packed on Ice N <input type="checkbox"/> Y <input checked="" type="checkbox"/>				Sample ID		Comp/Grab		Matrix*		Depth		Date		Time		Remarks/Contaminant		Sample # (lab only)	
EICH 1				GRAB		GW		12-1-08		1145		11		X X X X X X X X		METALS/HNO3		L377345-ml	
MILL 1				GRAB		GW		12-1-08		1255		11		X X X X X X X X		SULFIDE/Zn AC + NaOH		02	

\*Matrix: **SS** - Soil/Solid **GW** - Groundwater **WW** - WasteWater **DW** - Drinking Water **OT** - Other \_\_\_\_\_ (9660 0451 2387) pH \_\_\_\_\_ Temp \_\_\_\_\_

Remarks: Metals (Ca, Fe, K, Mg, Mn, Na, Se, As, Ba, Cd, Cu, Ag, Pb, Cr) Anions (CL, F, SO4, NO3, NO2, Br) Flow \_\_\_\_\_ Other \_\_\_\_\_

Relinquished by: (Signature) 	Date: 12-1-08	Time: 1630	Received by: (Signature) 	Samples returned via: <input checked="" type="checkbox"/> UPS <input type="checkbox"/> FedEx <input type="checkbox"/> Courier	Condition: (lab use only) 
Relinquished by: (Signature) 	Date:	Time:	Received by: (Signature) 	Temp: 31.0°C	Bottles Received: 22
Relinquished by: (Signature) 	Date:	Time:	Received for lab by: (Signature) 	Date: 12/3/08	Time: 0900
				pH Checked: 2.2 > 12	NCF:

Lab #: 152234 Job #: 10786  
 Sample Name: MW-12 Co. Lab#:  
 Company: Cordilleran, Div. of Olsson Assoc.  
 Date Sampled: 12/09/2008  
 Container: Dissolved Gas Bottle  
 Field/Site Name: 008-2067  
 Location: Divide Ck Quarterny  
 Formation/Depth:  
 Sampling Point:  
 Date Received: 12/19/2008 Date Reported: 2/05/2009

Component	Chemical mol. %	Delta 13C per mil	Delta D per mil	Delta 15N per mil
Hydrogen Sulfide -----	nd			
Helium -----	nd			
Hydrogen -----	nd			
Argon -----	1.46			
Oxygen -----	11.49			
Nitrogen -----	73.85			
Carbon Dioxide -----	12.08			
Methane -----	1.07	-45.94	-138.0	
Ethane -----	0.0472			
Ethylene -----	na			
Propane -----	nd			
Iso-butane -----	nd			
N-butane -----	nd			
Iso-pentane -----	nd			
N-pentane -----	nd			
Hexanes + -----	nd			

Total BTU/cu.ft. dry @ 60deg F & 14.7psia, calculated: 12  
 Specific gravity, calculated: 1.051

Remarks: Analysis is of gas extracted from water by headspace equilibration. Analysis has been corrected for helium added to create headspace. Helium dilution factor = 0.75

nd = not detected. na = not analyzed. Isotopic composition of carbon is relative to VPDB. Isotopic composition of hydrogen is relative to VSMOW. Calculations for BTU and specific gravity per ASTM D3588. Chemical compositions are normalized to 100%. Mol. % is approximately equal to vol. %. Chemical analysis based on standards accurate to within 2%

Lab #: 152235 Job #: 10786  
 Sample Name: MW-23 Co. Lab#:  
 Company: Cordilleran, Div. of Olsson Assoc.  
 Date Sampled: 12/09/2008  
 Container: Dissolved Gas Bottle  
 Field/Site Name: 008-2067  
 Location: Divide Ck Quartery  
 Formation/Depth:  
 Sampling Point:  
 Date Received: 12/19/2008 Date Reported: 2/05/2009

Component	Chemical mol. %	Delta 13C per mil	Delta D per mil	Delta 15N per mil
Hydrogen Sulfide -----	nd			
Helium -----	nd			
Hydrogen -----	nd			
Argon -----	1.40			
Oxygen -----	8.43			
Nitrogen -----	70.28			
Carbon Dioxide -----	10.12			
Methane -----	9.59	-64.26	-184.7	
Ethane -----	0.164	-27.32		
Ethylene -----	na			
Propane -----	0.0119			
Iso-butane -----	nd			
N-butane -----	nd			
Iso-pentane -----	nd			
N-pentane -----	nd			
Hexanes + -----	nd			

Total BTU/cu.ft. dry @ 60deg F & 14.7psia, calculated: 100

Specific gravity, calculated: 1.001

Remarks: Analysis is of gas extracted from water by headspace equilibration. Analysis has been corrected for helium added to create headspace. Helium dilution factor = 0.74

Carbon isotope data for ethane generated using continuous flow GC-C-IRMS method.

nd = not detected. na = not analyzed. Isotopic composition of carbon is relative to VPDB. Isotopic composition of hydrogen is relative to VSMOW. Calculations for BTU and specific gravity per ASTM D3588. Chemical compositions are normalized to 100%. Mol. % is approximately equal to vol. %. Chemical analysis based on standards accurate to within 2%



Lab #: 152236 Job #: 10786  
 Sample Name: MW-16 Co. Lab#:  
 Company: Cordilleran, Div. of Olsson Assoc.  
 Date Sampled: 12/09/2008  
 Container: Dissolved Gas Bottle  
 Field/Site Name: 008-2067  
 Location: Divide Ck Quartery  
 Formation/Depth:  
 Sampling Point:  
 Date Received: 12/19/2008 Date Reported: 2/05/2009

Component	Chemical mol. %	Delta 13C per mil	Delta D per mil	Delta 15N per mil
Hydrogen Sulfide -----	nd			
Helium -----	nd			
Hydrogen -----	nd			
Argon -----	1.45			
Oxygen -----	9.50			
Nitrogen -----	76.13			
Carbon Dioxide -----	1.71			
Methane -----	10.93	-37.05	-169.8	
Ethane -----	0.281	-2.18		
Ethylene -----	na			
Propane -----	nd			
Iso-butane -----	nd			
N-butane -----	nd			
Iso-pentane -----	nd			
N-pentane -----	nd			
Hexanes + -----	nd			

Total BTU/cu.ft. dry @ 60deg F & 14.7psia, calculated: 116

Specific gravity, calculated: 0.951

Remarks: Analysis is of gas extracted from water by headspace equilibration. Analysis has been corrected for helium added to create headspace. Helium dilution factor = 0.74

Carbon isotope data for ethane generated using continuous flow GC-C-IRMS method.

nd = not detected. na = not analyzed. Isotopic composition of carbon is relative to VPDB. Isotopic composition of hydrogen is relative to VSMOW. Calculations for BTU and specific gravity per ASTM D3588. Chemical compositions are normalized to 100%. Mol. % is approximately equal to vol. %. Chemical analysis based on standards accurate to within 2%

Lab #: 152237 Job #: 10786  
 Sample Name: MW-27 Co. Lab#:  
 Company: Cordilleran, Div. of Olsson Assoc.  
 Date Sampled: 12/09/2008  
 Container: Dissolved Gas Bottle  
 Field/Site Name: 008-2067  
 Location: Divide Ck Quartery  
 Formation/Depth:  
 Sampling Point:  
 Date Received: 12/19/2008 Date Reported: 2/05/2009

Component	Chemical mol. %	Delta 13C per mil	Delta D per mil	Delta 15N per mil
Hydrogen Sulfide -----	nd			
Helium -----	nd			
Hydrogen -----	nd			
Argon -----	1.62			
Oxygen -----	11.32			
Nitrogen -----	82.98			
Carbon Dioxide -----	4.08			
Methane -----	nd			
Ethane -----	nd			
Ethylene -----	na			
Propane -----	nd			
Iso-butane -----	nd			
N-butane -----	nd			
Iso-pentane -----	nd			
N-pentane -----	nd			
Hexanes + -----	nd			

Total BTU/cu.ft. dry @ 60deg F & 14.7psia, calculated: 0  
 Specific gravity, calculated: 1.012

Remarks: Analysis is of gas extracted from water by headspace equilibration. Analysis has been corrected for helium added to create headspace. Helium dilution factor = 0.75

nd = not detected. na = not analyzed. Isotopic composition of carbon is relative to VPDB. Isotopic composition of hydrogen is relative to VSMOW. Calculations for BTU and specific gravity per ASTM D3588. Chemical compositions are normalized to 100%. Mol. % is approximately equal to vol. %. Chemical analysis based on standards accurate to within 2%



Lab #: 152238 Job #: 10786  
 Sample Name: MW-14 Co. Lab#:  
 Company: Cordilleran, Div. of Olsson Assoc.  
 Date Sampled: 12/09/2008  
 Container: Dissolved Gas Bottle  
 Field/Site Name: 008-2067  
 Location: Divide Ck Quartery  
 Formation/Depth:  
 Sampling Point:  
 Date Received: 12/19/2008 Date Reported: 2/05/2009

Component	Chemical mol. %	Delta 13C per mil	Delta D per mil	Delta 15N per mil
Hydrogen Sulfide -----	nd			
Helium -----	nd			
Hydrogen -----	nd			
Argon -----	1.07			
Oxygen -----	0.928			
Nitrogen -----	50.22			
Carbon Dioxide -----	7.80			
Methane -----	34.72	-39.65	-185.2	
Ethane -----	3.88	-28.01		
Ethylene -----	na			
Propane -----	1.05	-24.79		
Iso-butane -----	0.119			
N-butane -----	0.152			
Iso-pentane -----	0.0312			
N-pentane -----	0.0187			
Hexanes + -----	0.0144			

Total BTU/cu.ft. dry @ 60deg F & 14.7psia, calculated: 459

Specific gravity, calculated: 0.885

Remarks: Analysis is of gas extracted from water by headspace equilibration. Analysis has been corrected for helium added to create headspace. Helium dilution factor = 0.73

Carbon isotope data for ethane and propane generated using continuous flow GC-C-IRMS method.

nd = not detected. na = not analyzed. Isotopic composition of carbon is relative to VPDB. Isotopic composition of hydrogen is relative to VSMOW. Calculations for BTU and specific gravity per ASTM D3588. Chemical compositions are normalized to 100%. Mol. % is approximately equal to vol. %. Chemical analysis based on standards accurate to within 2%

Lab #: 152239 Job #: 10786  
 Sample Name: MW-4 Co. Lab#:  
 Company: Cordilleran, Div. of Olsson Assoc.  
 Date Sampled: 12/09/2008  
 Container: Dissolved Gas Bottle  
 Field/Site Name: 008-2067  
 Location: Divide Ck Quartery  
 Formation/Depth:  
 Sampling Point:  
 Date Received: 12/19/2008 Date Reported: 2/05/2009

Component	Chemical mol. %	Delta 13C per mil	Delta D per mil	Delta 15N per mil
Hydrogen Sulfide -----	nd			
Helium -----	nd			
Hydrogen -----	nd			
Argon -----	0.516			
Oxygen -----	9.73			
Nitrogen -----	25.84			
Carbon Dioxide -----	1.90			
Methane -----	52.11	-39.68	-186.7	
Ethane -----	6.63	-27.07		
Ethylene -----	na			
Propane -----	2.39	-25.73		
Iso-butane -----	0.346			
N-butane -----	0.361			
Iso-pentane -----	0.0871			
N-pentane -----	0.0463			
Hexanes + -----	0.0418			

Total BTU/cu.ft. dry @ 60deg F & 14.7psia, calculated: 737

Specific gravity, calculated: 0.806

Remarks: Analysis is of gas extracted from water by headspace equilibration. Analysis has been corrected for helium added to create headspace. Helium dilution factor = 0.71

Carbon isotope data for ethane and propane generated using continuous flow GC-C-IRMS method.

nd = not detected. na = not analyzed. Isotopic composition of carbon is relative to VPDB. Isotopic composition of hydrogen is relative to VSMOW. Calculations for BTU and specific gravity per ASTM D3588. Chemical compositions are normalized to 100%. Mol. % is approximately equal to vol. %. Chemical analysis based on standards accurate to within 2%

Lab #: 152240 Job #: 10786  
Sample Name: MW-6 Co. Lab#:  
Company: Cordilleran, Div. of Olsson Assoc.  
Date Sampled: 12/09/2008  
Container: Dissolved Gas Bottle  
Field/Site Name: 008-2067  
Location: Divide Ck Quartery  
Formation/Depth:  
Sampling Point:  
Date Received: 12/19/2008 Date Reported: 2/05/2009

Component	Chemical mol. %	Delta 13C per mil	Delta D per mil	Delta 15N per mil
Carbon Monoxide -----	0.044			
Hydrogen Sulfide -----	nd			
Helium -----	nd			
Hydrogen -----	nd			
Argon -----	1.45			
Oxygen -----	13.80			
Nitrogen -----	70.39			
Carbon Dioxide -----	14.21			
Methane -----	0.0935			
Ethane -----	0.0095			
Ethylene -----	nd			
Propane -----	nd			
Iso-butane -----	nd			
N-butane -----	nd			
Iso-pentane -----	nd			
N-pentane -----	nd			
Hexanes + -----	nd			

Total BTU/cu.ft. dry @ 60deg F & 14.7psia, calculated: 1  
Specific gravity, calculated: 1.070

Remarks: Analysis is of gas extracted from water by headspace equilibration. Analysis has been corrected for helium added to create headspace. Helium dilution factor = 0.77

nd = not detected. na = not analyzed. Isotopic composition of carbon is relative to VPDB. Isotopic composition of hydrogen is relative to VSMOW. Calculations for BTU and specific gravity per ASTM D3588. Chemical compositions are normalized to 100%. Mol. % is approximately equal to vol. %. Chemical analysis based on standards accurate to within 2%

Lab #: 152241 Job #: 10786  
Sample Name: MW-17 Co. Lab#:  
Company: Cordilleran, Div. of Olsson Assoc.  
Date Sampled: 12/09/2008  
Container: Dissolved Gas Bottle  
Field/Site Name: 008-2067  
Location: Divide Ck Quartery  
Formation/Depth:  
Sampling Point:  
Date Received: 12/19/2008 Date Reported: 2/05/2009

Component	Chemical mol. %	Delta 13C per mil	Delta D per mil	Delta 15N per mil
Hydrogen Sulfide -----	nd			
Helium -----	nd			
Hydrogen -----	nd			
Argon -----	1.33			
Oxygen -----	0.101			
Nitrogen -----	68.54			
Carbon Dioxide -----	7.52			
Methane -----	20.11	-44.02	-191.9	
Ethane -----	2.34	-27.06		
Ethylene -----	na			
Propane -----	0.0613			
Iso-butane -----	nd			
N-butane -----	nd			
Iso-pentane -----	nd			
N-pentane -----	nd			
Hexanes + -----	nd			

Total BTU/cu.ft. dry @ 60deg F & 14.7psia, calculated: 247

Specific gravity, calculated: 0.933

Remarks: Analysis is of gas extracted from water by headspace equilibration. Analysis has been corrected for helium added to create headspace. Helium dilution factor = 0.76

Carbon isotope data for ethane generated using continuous flow GC-C-IRMS method.

nd = not detected. na = not analyzed. Isotopic composition of carbon is relative to VPDB. Isotopic composition of hydrogen is relative to VSMOW. Calculations for BTU and specific gravity per ASTM D3588. Chemical compositions are normalized to 100%. Mol. % is approximately equal to vol. %. Chemical analysis based on standards accurate to within 2%

Lab #: 152242 Job #: 10786  
 Sample Name: MW-2 Co. Lab#:  
 Company: Cordilleran, Div. of Olsson Assoc.  
 Date Sampled: 12/10/2008  
 Container: Dissolved Gas Bottle  
 Field/Site Name: 008-2067  
 Location: Divide Ck Quarterny  
 Formation/Depth:  
 Sampling Point:  
 Date Received: 12/19/2008 Date Reported: 2/05/2009

Component	Chemical mol. %	Delta 13C per mil	Delta D per mil	Delta 15N per mil
Hydrogen Sulfide -----	nd			
Helium -----	nd			
Hydrogen -----	nd			
Argon -----	0.522			
Oxygen -----	6.72			
Nitrogen -----	25.27			
Carbon Dioxide -----	3.19			
Methane -----	54.33	-39.88	-178.1	
Ethane -----	7.01	-27.56		
Ethylene -----	na			
Propane -----	2.22	-25.37		
Iso-butane -----	0.304			
N-butane -----	0.297			
Iso-pentane -----	0.0735			
N-pentane -----	0.0308			
Hexanes + -----	0.0308			

Total BTU/cu.ft. dry @ 60deg F & 14.7psia, calculated: 757  
 Specific gravity, calculated: 0.797

Remarks: Analysis is of gas extracted from water by headspace equilibration. Analysis has been corrected for helium added to create headspace. Helium dilution factor = 0.7

nd = not detected. na = not analyzed. Isotopic composition of carbon is relative to VPDB. Isotopic composition of hydrogen is relative to VSMOW. Calculations for BTU and specific gravity per ASTM D3588. Chemical compositions are normalized to 100%. Mol. % is approximately equal to vol. %. Chemical analysis based on standards accurate to within 2%

Lab #: 152243 Job #: 10786  
 Sample Name: DCS-3 Co. Lab#:  
 Company: Cordilleran, Div. of Olsson Assoc.  
 Date Sampled: 12/10/2008  
 Container: Dissolved Gas Bottle  
 Field/Site Name: 008-2067  
 Location: Divide Ck Quartery  
 Formation/Depth:  
 Sampling Point:  
 Date Received: 12/19/2008 Date Reported: 2/05/2009

Component	Chemical mol. %	Delta 13C per mil	Delta D per mil	Delta 15N per mil
Carbon Monoxide -----	0.026			
Hydrogen Sulfide -----	nd			
Helium -----	nd			
Hydrogen -----	nd			
Argon -----	1.38			
Oxygen -----	31.35			
Nitrogen -----	66.11			
Carbon Dioxide -----	1.07			
Methane -----	0.0578			
Ethane -----	0.0059			
Ethylene -----	nd			
Propane -----	nd			
Iso-butane -----	nd			
N-butane -----	nd			
Iso-pentane -----	nd			
N-pentane -----	nd			
Hexanes + -----	nd			

Total BTU/cu.ft. dry @ 60deg F & 14.7psia, calculated: 1  
 Specific gravity, calculated: 1.022

Remarks: Analysis is of gas extracted from water by headspace equilibration. Analysis has been corrected for helium added to create headspace. Helium dilution factor = 0.72

nd = not detected. na = not analyzed. Isotopic composition of carbon is relative to VPDB. Isotopic composition of hydrogen is relative to VSMOW. Calculations for BTU and specific gravity per ASTM D3588. Chemical compositions are normalized to 100%. Mol. % is approximately equal to vol. %. Chemical analysis based on standards accurate to within 2%

Lab #: 152244 Job #: 10786  
 Sample Name: DCS-2 Co. Lab#:  
 Company: Cordilleran, Div. of Olsson Assoc.  
 Date Sampled: 12/10/2008  
 Container: Dissolved Gas Bottle  
 Field/Site Name: 008-2067  
 Location: Divide Ck Quartery  
 Formation/Depth:  
 Sampling Point:  
 Date Received: 12/19/2008 Date Reported: 2/05/2009

Component	Chemical mol. %	Delta 13C per mil	Delta D per mil	Delta 15N per mil
Hydrogen Sulfide -----	nd			
Helium -----	nd			
Hydrogen -----	nd			
Argon -----	1.36			
Oxygen -----	31.62			
Nitrogen -----	66.22			
Carbon Dioxide -----	0.78			
Methane -----	0.0183			
Ethane -----	nd			
Ethylene -----	na			
Propane -----	nd			
Iso-butane -----	nd			
N-butane -----	nd			
Iso-pentane -----	nd			
N-pentane -----	nd			
Hexanes + -----	nd			

Total BTU/cu.ft. dry @ 60deg F & 14.7psia, calculated: 0  
 Specific gravity, calculated: 1.021

Remarks: Analysis is of gas extracted from water by headspace equilibration. Analysis has been corrected for helium added to create headspace. Helium dilution factor = 0.68

nd = not detected. na = not analyzed. Isotopic composition of carbon is relative to VPDB. Isotopic composition of hydrogen is relative to VSMOW. Calculations for BTU and specific gravity per ASTM D3588. Chemical compositions are normalized to 100%. Mol. % is approximately equal to vol. %. Chemical analysis based on standards accurate to within 2%



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Est. 1970

Stuart Hall  
Cordilleran Compliance - GJ, CO  
826 21 1/2 Road

Grand Junction, CO 81505

Report Summary

Tuesday December 09, 2008

Report Number: L377349

Samples Received: 12/03/08

Client Project: 008-2417

Description:

The analytical results in this report are based upon information supplied by you, the client, and are for your exclusive use. If you have any questions regarding this data package, please do not hesitate to call.

Entire Report Reviewed By:

John D. Blackman, ESC Representative

*Laboratory Certification Numbers*

A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - I-2327, CT - PH-0197, FL - E87487  
GA - 923, IN - C-TN-01, KY - 90010, KYUST - 0016, NC - ENV375, DW21704, ND - R-140  
NJ - TN002, SC - 84004, TN - 2006, VA - 00109, WV - 233  
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REPORT OF ANALYSIS

Stuart Hall  
Cordilleran Compliance - GJ, CO  
826 21 1/2 Road  
Grand Junction, CO 81505

December 09, 2008

Date Received : December 03, 2008  
Description :

Sample ID : EICH 1

Collected By : Jess Vann  
Collection Date : 12/01/08 11:45

ESC Sample # : L377349-01

Site ID :

Project # : 008-2417

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Bromide	BDL	1.0	mg/l	9056	12/03/08	1
Chloride	10.	1.0	mg/l	9056	12/03/08	1
Fluoride	1.0	0.10	mg/l	9056	12/03/08	1
Nitrate	1.3	0.10	mg/l	9056	12/03/08	1
Nitrite	BDL	0.10	mg/l	9056	12/03/08	1
Sulfate	25.	5.0	mg/l	9056	12/03/08	1
Methane	BDL	0.010	mg/l	3810/RSK175	12/04/08	1
Ammonia Nitrogen	0.11	0.10	mg/l	350.1	12/04/08	1
pH	7.4		su	9040C	12/04/08	1
Sulfide	BDL	0.050	mg/l	4500-S2 D	12/08/08	1
Specific Conductance	840		umhos/cm	9050A	12/04/08	1
Dissolved Solids	530	10.	mg/l	2540C	12/08/08	1
Calcium,Dissolved	64.	0.50	mg/l	6010B	12/09/08	1
Iron,Dissolved	BDL	0.10	mg/l	6010B	12/09/08	1
Magnesium,Dissolved	35.	0.10	mg/l	6010B	12/09/08	1
Manganese,Dissolved	BDL	0.010	mg/l	6010B	12/09/08	1
Potassium,Dissolved	4.7	0.50	mg/l	6010B	12/09/08	1
Selenium,Dissolved	BDL	0.020	mg/l	6010B	12/09/08	1
Sodium,Dissolved	80.	0.50	mg/l	6010B	12/09/08	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

Note:

The reported analytical results relate only to the sample submitted.

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L377349-01 (PH) - 7.4@18.6c



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REPORT OF ANALYSIS

Stuart Hall  
Cordilleran Compliance - GJ, CO  
826 21 1/2 Road  
Grand Junction, CO 81505

December 09, 2008

Date Received : December 03, 2008  
Description :

Sample ID : EICH 1

Collected By : Jess Vann  
Collection Date : 12/01/08 11:45

ESC Sample # : L377349-02

Site ID :

Project # : 008-2417

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Alkalinity	410	10.	mg/l	2320B	12/04/08	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

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REPORT OF ANALYSIS

Stuart Hall  
Cordilleran Compliance - GJ, CO  
826 21 1/2 Road  
Grand Junction, CO 81505

December 09, 2008

Date Received : December 03, 2008  
Description :

Sample ID : EICH 1

Collected By : Jess Vann  
Collection Date : 12/01/08 11:45

ESC Sample # : L377349-03

Site ID :

Project # : 008-2417

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Benzene	BDL	0.50	ug/l	8021/8015	12/04/08	1
Toluene	BDL	5.0	ug/l	8021/8015	12/04/08	1
Ethylbenzene	BDL	0.50	ug/l	8021/8015	12/04/08	1
Total Xylene	BDL	1.5	ug/l	8021/8015	12/04/08	1
Methyl tert-butyl ether	BDL	1.0	ug/l	8021/8015	12/04/08	1
Surrogate Recovery-%						
a,a,a-Trifluorotoluene(FID)	104.		% Rec.	8021/8015	12/04/08	1
a,a,a-Trifluorotoluene(PID)	106.		% Rec.	8021/8015	12/04/08	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

Note:

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REPORT OF ANALYSIS

Stuart Hall  
Cordilleran Compliance - GJ, CO  
826 21 1/2 Road  
Grand Junction, CO 81505

December 09, 2008

Date Received : December 03, 2008  
Description :

Sample ID : MILL 1

Collected By : Jess Vann  
Collection Date : 12/01/08 12:55

ESC Sample # : L377349-04

Site ID :

Project # : 008-2417

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Bromide	BDL	1.0	mg/l	9056	12/03/08	1
Chloride	8.0	1.0	mg/l	9056	12/03/08	1
Fluoride	0.57	0.10	mg/l	9056	12/03/08	1
Nitrate	BDL	0.10	mg/l	9056	12/03/08	1
Nitrite	BDL	0.10	mg/l	9056	12/03/08	1
Sulfate	34.	5.0	mg/l	9056	12/03/08	1
Methane	BDL	0.010	mg/l	3810/RSK175	12/04/08	1
Ammonia Nitrogen	BDL	0.10	mg/l	350.1	12/04/08	1
pH	11.		su	9040C	12/04/08	1
Sulfide	BDL	0.050	mg/l	4500-S2 D	12/08/08	1
Specific Conductance	890		umhos/cm	9050A	12/04/08	1
Dissolved Solids	860	10.	mg/l	2540C	12/08/08	1
Calcium,Dissolved	76.	0.50	mg/l	6010B	12/09/08	1
Iron,Dissolved	BDL	0.10	mg/l	6010B	12/09/08	1
Magnesium,Dissolved	39.	0.10	mg/l	6010B	12/09/08	1
Manganese,Dissolved	1.8	0.010	mg/l	6010B	12/09/08	1
Potassium,Dissolved	2.1	0.50	mg/l	6010B	12/09/08	1
Selenium,Dissolved	BDL	0.020	mg/l	6010B	12/09/08	1
Sodium,Dissolved	74.	0.50	mg/l	6010B	12/09/08	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

Note:

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L377349-04 (PH) - 11@18.7c



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REPORT OF ANALYSIS

Stuart Hall  
Cordilleran Compliance - GJ, CO  
826 21 1/2 Road  
Grand Junction, CO 81505

December 09, 2008

Date Received : December 03, 2008  
Description :

Sample ID : MILL 1

Collected By : Jess Vann  
Collection Date : 12/01/08 12:55

ESC Sample # : L377349-05

Site ID :

Project # : 008-2417

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Alkalinity	450	10.	mg/l	2320B	12/04/08	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

Note:

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REPORT OF ANALYSIS

Stuart Hall  
Cordilleran Compliance - GJ, CO  
826 21 1/2 Road  
Grand Junction, CO 81505

December 09, 2008

Date Received : December 03, 2008  
Description :

Sample ID : MILL 1

Collected By : Jess Vann  
Collection Date : 12/01/08 12:55

ESC Sample # : L377349-06

Site ID :

Project # : 008-2417

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Benzene	BDL	0.50	ug/l	8021/8015	12/04/08	1
Toluene	BDL	5.0	ug/l	8021/8015	12/04/08	1
Ethylbenzene	BDL	0.50	ug/l	8021/8015	12/04/08	1
Total Xylene	BDL	1.5	ug/l	8021/8015	12/04/08	1
Methyl tert-butyl ether	BDL	1.0	ug/l	8021/8015	12/04/08	1
Surrogate Recovery-%						
a,a,a-Trifluorotoluene(FID)	104.		% Rec.	8021/8015	12/04/08	1
a,a,a-Trifluorotoluene(PID)	106.		% Rec.	8021/8015	12/04/08	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

Note:

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Attachment A  
List of Analytes with QC Qualifiers

Sample Number	Work Group	Sample Type	Analyte	Run ID	Qualifier
L377349-01	WG396760	SAMP	pH	R552266	T8
L377349-04	WG396760	SAMP	pH	R552266	T8

Attachment B  
Explanation of QC Qualifier Codes

Qualifier	Meaning
T8	(ESC) - Additional method/sample information: Sample(s) received past/too close to holding time expiration.

Qualifier Report Information

ESC utilizes sample and result qualifiers as set forth by the EPA Contract Laboratory Program and as required by most certifying bodies including NELAC. In addition to the EPA qualifiers adopted by ESC, we have implemented ESC qualifiers to provide more information pertaining to our analytical results. Each qualifier is designated in the qualifier explanation as either EPA or ESC. Data qualifiers are intended to provide the ESC client with more detailed information concerning the potential bias of reported data. Because of the wide range of constituents and variety of matrices incorporated by most EPA methods, it is common for some compounds to fall outside of established ranges. These exceptions are evaluated and all reported data is valid and useable unless qualified as 'R' (Rejected).

Definitions

- Accuracy - The relationship of the observed value of a known sample to the true value of a known sample. Represented by percent recovery and relevant to samples such as: control samples, matrix spike recoveries, surrogate recoveries, etc.
- Precision - The agreement between a set of samples or between duplicate samples. Relates to how close together the results are and is represented by Relative Percent Difference.
- Surrogate - Organic compounds that are similar in chemical composition, extraction, and chromatography to analytes of interest. The surrogates are used to determine the probable response of the group of analytes that are chemically related to the surrogate compound. Surrogates are added to the sample and carried through all stages of preparation and analyses.
- TIC - Tentatively Identified Compound: Compounds detected in samples that are not target compounds, internal standards, system monitoring compounds, or surrogates.



Summary of Remarks For Samples Printed  
12/09/08 at 16:49:15

TSR Signing Reports: 151  
R5 - Desired TAT

cb-1/05;Run ALKs on separate dash, 1 day TAT, R3 priority; Client sends unpreserved vials for  
all projects; Run BTEXM on separate dash

Sample: L377349-01 Account: CORCOMGCO Received: 12/03/08 09:00 Due Date: 12/10/08 00:00 RPT Date: 12/09/08 16:48  
Field Filtered. Refer to L377357 for BART samples.

Sample: L377349-02 Account: CORCOMGCO Received: 12/03/08 09:00 Due Date: 12/04/08 00:00 RPT Date: 12/09/08 16:48

Sample: L377349-03 Account: CORCOMGCO Received: 12/03/08 09:00 Due Date: 12/10/08 00:00 RPT Date: 12/09/08 16:48

Sample: L377349-04 Account: CORCOMGCO Received: 12/03/08 09:00 Due Date: 12/10/08 00:00 RPT Date: 12/09/08 16:48  
Field Filtered.

Sample: L377349-05 Account: CORCOMGCO Received: 12/03/08 09:00 Due Date: 12/04/08 00:00 RPT Date: 12/09/08 16:48

Sample: L377349-06 Account: CORCOMGCO Received: 12/03/08 09:00 Due Date: 12/10/08 00:00 RPT Date: 12/09/08 16:48



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Grand Junction, CO 81505

## Quality Assurance Report Level II

L377349

December 09, 2008

Analyte	Result	Laboratory Blank		Limit	Batch	Date Analyzed
		Units	% Rec			
Alkalinity	< 10	mg/l			WG396708	12/04/08 10:07
Bromide	< 1	mg/l			WG396643	12/03/08 10:35
Chloride	< 1	mg/l			WG396643	12/03/08 10:35
Fluoride	< .1	mg/l			WG396643	12/03/08 10:35
Nitrate	< .1	mg/l			WG396643	12/03/08 10:35
Nitrite	< .1	mg/l			WG396643	12/03/08 10:35
Sulfate	< 5	mg/l			WG396643	12/03/08 10:35
Ammonia Nitrogen	< .1	mg/l			WG396681	12/04/08 12:50
pH	7.20	su			WG396760	12/04/08 14:11
Specific Conductance	0.540	umhos/cm			WG396746	12/04/08 12:00
Methane	< .01	mg/l			WG396863	12/04/08 14:06
Benzene	< .0005	mg/l			WG396824	12/04/08 15:14
Ethylbenzene	< .0005	mg/l			WG396824	12/04/08 15:14
Methyl tert-butyl ether	< .005	mg/l			WG396824	12/04/08 15:14
Toluene	< .005	mg/l			WG396824	12/04/08 15:14
Total Xylene	< .0015	mg/l			WG396824	12/04/08 15:14
a,a,a-Trifluorotoluene(FID)		% Rec.	104.6	62-128	WG396824	12/04/08 15:14
a,a,a-Trifluorotoluene(PID)		% Rec.	102.9	54.8-121	WG396824	12/04/08 15:14
Dissolved Solids	< 10	mg/l			WG396737	12/08/08 12:13
Sulfide	< .05	mg/l			WG397093	12/08/08 19:39
Calcium,Dissolved	< .5	mg/l			WG396923	12/09/08 09:04
Iron,Dissolved	< .1	mg/l			WG396923	12/09/08 09:04
Magnesium,Dissolved	< .1	mg/l			WG396923	12/09/08 09:04
Manganese,Dissolved	< .01	mg/l			WG396923	12/09/08 09:04
Potassium,Dissolved	< .5	mg/l			WG396923	12/09/08 09:04
Selenium,Dissolved	< .02	mg/l			WG396923	12/09/08 09:04
Sodium,Dissolved	< .5	mg/l			WG396923	12/09/08 09:04

Analyte	Units	Duplicate			Limit	Ref Samp	Batch
		Result	Duplicate	RPD			
Alkalinity	mg/l	452.	450.	0.443	20	L377349-05	WG396708
Alkalinity	mg/l	115.	120.	4.26	20	L376731-01	WG396708
Bromide	mg/l	0.00	0.232	NA*	20	L377358-01	WG396643
Chloride	mg/l	269.	271.	0.741	20	L377358-01	WG396643
Fluoride	mg/l	0.533	0.368	36.6*	20	L377358-01	WG396643
Nitrate	mg/l	5.99	6.00	0.167	20	L377358-01	WG396643
Nitrite	mg/l	0.137	0.150	9.06	20	L377358-01	WG396643

\* Performance of this Analyte is outside of established criteria.

For additional information, please see Attachment A 'List of Analytes with QC Qualifiers.'



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L377349

December 09, 2008

Analyte	Units	Duplicate		RPD	Limit	Ref Samp	Batch
		Result	Duplicate				
Sulfate	mg/l	166.	168.	1.20	20	L377358-01	WG396643
Bromide	mg/l	0.00	0.00	0.00	20	L377367-04	WG396643
Chloride	mg/l	12.3	12.3	0.00	20	L377367-04	WG396643
Fluoride	mg/l	0.00	0.00	0.00	20	L377367-04	WG396643
Nitrate	mg/l	2.12	2.10	0.948	20	L377367-04	WG396643
Nitrite	mg/l	0.00	0.00	0.00	20	L377367-04	WG396643
Sulfate	mg/l	24.3	24.0	1.24	20	L377367-04	WG396643
Ammonia Nitrogen	mg/l	0.00	0.00	0.00	20	L377349-04	WG396681
Ammonia Nitrogen	mg/l	0.00	0.00	0.00	20	L377212-01	WG396681
pH	su	6.90	6.90	0.00	20	L377293-01	WG396760
pH	su	7.40	7.40	0.00	20	L377508-01	WG396760
Specific Conductance	umhos	775.	770.	0.647	20	L374734-01	WG396746
Dissolved Solids	mg/l	527.	530.	0.568	5	L377349-01	WG396737
Sulfide	mg/l	0.00	0.00	0.00	20	L377349-01	WG397093
Sulfide	mg/l	0.00	0.00	0.00	20	L377853-02	WG397093
Calcium, Dissolved	mg/l	2.24	2.23	0.447	20	L377253-07	WG396923
Iron, Dissolved	mg/l	0.953	0.790	18.7	20	L377253-07	WG396923
Magnesium, Dissolved	mg/l	1.48	1.40	5.56	20	L377253-07	WG396923
Manganese, Dissolved	mg/l	0.0253	0.0260	2.73	20	L377253-07	WG396923
Potassium, Dissolved	mg/l	1.17	1.07	8.93	20	L377253-07	WG396923
Selenium, Dissolved	mg/l	0.00	0.00	0.00	20	L377253-07	WG396923
Sodium, Dissolved	mg/l	78.0	77.2	1.03	20	L377253-07	WG396923

Analyte	Units	Laboratory Control Sample		% Rec	Limit	Batch
		Known Val	Result			
Alkalinity	mg/l	40	39.6	99.0	85-115	WG396708
Bromide	mg/l	40	37.1	92.8	90-110	WG396643
Chloride	mg/l	40	37.9	94.8	90-110	WG396643
Fluoride	mg/l	8	8.31	104.	90-110	WG396643
Nitrate	mg/l	8	8.14	102.	90-110	WG396643
Nitrite	mg/l	8	8.14	102.	90-110	WG396643
Sulfate	mg/l	40	38.2	95.5	90-110	WG396643
Ammonia Nitrogen	mg/l	7.5	7.59	101.	85-115	WG396681
pH	su	7.42	7.50	101.	97.19-102	WG396760
Specific Conductance	umhos/cm	519	540.	104.	85-115	WG396746

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L377349

December 09, 2008

Analyte	Laboratory Control		Sample	% Rec	Limit	Batch
	Units	Known Val	Result			
Methane	mg/l	1000	980.	98.0	56-121	WG396863
Benzene	mg/l	.05	0.0509	102.	79-114	WG396824
Ethylbenzene	mg/l	.05	0.0501	100.	80-116	WG396824
Methyl tert-butyl ether	mg/l	.05	0.0484	96.7	64-125	WG396824
Toluene	mg/l	.05	0.0494	98.9	79-112	WG396824
Total Xylene	mg/l	.15	0.154	103.	84-118	WG396824
a,a,a-Trifluorotoluene(PID)				102.1	54.8-121.	WG396824
Dissolved Solids	mg/l	8800	8560	97.3	85-115	WG396737
Sulfide	mg/l	.5	0.510	102.	90-110	WG397093
Calcium,Dissolved	mg/l	11.3	11.8	104.	85-115	WG396923
Iron,Dissolved	mg/l	1.13	1.21	107.	85-115	WG396923
Magnesium,Dissolved	mg/l	11.3	11.9	105.	85-115	WG396923
Manganese,Dissolved	mg/l	1.13	1.19	105.	85-115	WG396923
Potassium,Dissolved	mg/l	11.3	11.4	101.	85-115	WG396923
Selenium,Dissolved	mg/l	1.13	1.10	97.3	85-115	WG396923
Sodium,Dissolved	mg/l	11.3	12.0	106.	85-115	WG396923

Analyte	Laboratory Control		Sample	%Rec	Limit	RPD	Limit	Batch
	Units	Result	Ref					
Alkalinity	mg/l	39.6	39.6	99.0	85-115	0.00	20	WG396708
Bromide	mg/l	37.2	37.1	93.0	90-110	0.269	20	WG396643
Chloride	mg/l	38.0	37.9	95.0	90-110	0.264	20	WG396643
Fluoride	mg/l	8.28	8.31	104.	90-110	0.362	20	WG396643
Nitrate	mg/l	8.14	8.14	102.	90-110	0.00	20	WG396643
Nitrite	mg/l	8.14	8.14	102.	90-110	0.00	20	WG396643
Sulfate	mg/l	38.1	38.2	95.0	90-110	0.262	20	WG396643
Ammonia Nitrogen	mg/l	7.66	7.59	102.	85-115	0.918	20	WG396681
pH	su	7.50	7.50	101.	97.19-1	0.00	20	WG396760
Specific Conductance	umhos	540.	540.	104.	85-115	0.00	20	WG396746
Methane	mg/l	950.	980.	95.0	56-121	3.11	20	WG396863
Benzene	mg/l	0.048	0.050	98.0	79-114	4.04	20	WG396824
Ethylbenzene	mg/l	0.048	0.050	96.0	80-116	4.35	20	WG396824
Methyl tert-butyl ether	mg/l	0.049	0.048	98.0	64-125	1.66	20	WG396824
Toluene	mg/l	0.047	0.049	94.0	79-112	4.98	20	WG396824
Total Xylene	mg/l	0.148	0.154	98.0	84-118	4.16	20	WG396824
a,a,a-Trifluorotoluene(PID)				101.3	54.8-12			WG396824

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## Quality Assurance Report Level II

Grand Junction, CO 81505

L377349

December 09, 2008

Analyte	Laboratory Control Sample Duplicate				RPD	Limit	Batch
	Units	Result	Ref	%Rec			
Dissolved Solids	mg/l	8680	8560	99.0	1.44	20	WG396737
Sulfide	mg/l	0.497	0.510	99.0	2.58	20	WG397093

Analyte	Units	Matrix Spike			% Rec	Limit	Ref Samp	Batch
		MS Res	Ref Res	TV				
Alkalinity	mg/l	466.	290.	200	88.0	80-120	L377118-01	WG396708
Bromide	mg/l	49.3	0.534	50	97.5	80-120	L377252-06	WG396643
Chloride	mg/l	146.	100.	50	92.0	80-120	L377252-06	WG396643
Fluoride	mg/l	6.02	1.49	5	90.6	80-120	L377252-06	WG396643
Nitrate	mg/l	4.93	0.00	5	98.6	80-120	L377252-06	WG396643
Nitrite	mg/l	4.84	0.00	5	96.8	80-120	L377252-06	WG396643
Sulfate	mg/l	48.9	0.00	50	97.8	80-120	L377252-06	WG396643
Ammonia Nitrogen	mg/l	5.06	0.110	5	99.0	80-120	L377349-01	WG396681
Benzene	mg/l	53.1	29.0	.05	96.3	35-147	L377167-01	WG396824
Ethylbenzene	mg/l	29.0	5.00	.05	95.8	39-141	L377167-01	WG396824
Methyl tert-butyl ether	mg/l	25.3	0.00	.05	101.	37-147	L377167-01	WG396824
Toluene	mg/l	65.0	43.0	.05	87.8	35-148	L377167-01	WG396824
Total Xylene	mg/l	98.0	26.0	.15	96.0	33-151	L377167-01	WG396824
a,a,a-Trifluorotoluene(PID)					101.1	54.8-12		WG396824
Sulfide	mg/l	0.973	0.00	1	97.3	90-110	L377900-01	WG397093
Calcium,Dissolved	mg/l	14.0	2.23	11.3	104.	75-125	L377253-07	WG396923
Iron,Dissolved	mg/l	2.06	0.790	1.13	112.	75-125	L377253-07	WG396923
Magnesium,Dissolved	mg/l	13.5	1.40	11.3	107.	75-125	L377253-07	WG396923
Manganese,Dissolved	mg/l	1.21	0.026	1.13	105.	75-125	L377253-07	WG396923
Potassium,Dissolved	mg/l	12.6	1.07	11.3	102.	75-125	L377253-07	WG396923
Selenium,Dissolved	mg/l	1.10	0.00	1.13	97.3	75-125	L377253-07	WG396923
Sodium,Dissolved	mg/l	88.8	77.2	11.3	103.	75-125	L377253-07	WG396923

Analyte	Units	Matrix Spike Duplicate			RPD	Limit	Ref Samp	Batch
		MSD	Ref	%Rec				
Alkalinity	mg/l	462.	466.	86.0	80-120	0.86 20	L377118-01	WG396708
Bromide	mg/l	48.9	49.3	96.7	80-120	0.81 20	L377252-06	WG396643
Chloride	mg/l	145.	146.	90.0	80-120	0.68 20	L377252-06	WG396643
Fluoride	mg/l	5.97	6.02	89.6	80-120	0.83 20	L377252-06	WG396643
Nitrate	mg/l	4.89	4.93	97.8	80-120	0.81 20	L377252-06	WG396643
Nitrite	mg/l	4.77	4.84	95.4	80-120	1.46 20	L377252-06	WG396643
Sulfate	mg/l	48.5	48.9	97.0	80-120	0.82 20	L377252-06	WG396643
Ammonia Nitrogen	mg/l	5.07	5.06	99.2	80-120	0.19 20	L377349-01	WG396681

\* Performance of this Analyte is outside of established criteria.  
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Quality Assurance Report  
Level II

Grand Junction, CO 81505

L377349

December 09, 2008

Analyte	Matrix Spike Duplicate				Limit	RPD	Limit	Ref	Samp	Batch
	Units	MSD	Ref	%Rec						
Benzene	mg/l	51.8	53.1	91.0	35-147	2.50	20		L377167-01	WG396824
Ethylbenzene	mg/l	28.3	29.0	93.2	39-141	2.32	20		L377167-01	WG396824
Methyl tert-butyl ether	mg/l	24.7	25.3	98.7	37-147	2.58	20		L377167-01	WG396824
Toluene	mg/l	63.4	65.0	81.7	35-148	2.41	20		L377167-01	WG396824
Total Xylene	mg/l	95.9	98.0	93.1	33-151	2.19	20		L377167-01	WG396824
a,a,a-Trifluorotoluene(PID)				101.5	54.8-1					WG396824
Sulfide	mg/l	0.96	0.97	96.8	90-110	0.51	20		L377900-01	WG397093
Calcium,Dissolved	mg/l	13.9	14.0	103.	75-125	0.71	20		L377253-07	WG396923
Iron,Dissolved	mg/l	2.09	2.06	115.	75-125	1.45	20		L377253-07	WG396923
Magnesium,Dissolved	mg/l	13.3	13.5	105.	75-125	1.49	20		L377253-07	WG396923
Manganese,Dissolved	mg/l	1.20	1.21	104.	75-125	0.83	20		L377253-07	WG396923
Potassium,Dissolved	mg/l	12.2	12.6	98.5	75-125	3.23	20		L377253-07	WG396923
Selenium,Dissolved	mg/l	1.08	1.10	95.6	75-125	1.83	20		L377253-07	WG396923
Sodium,Dissolved	mg/l	88.0	88.8	95.6	75-125	0.90	20		L377253-07	WG396923

Batch number /Run number / Sample number cross reference

WG396708: R551605: L377349-02 05  
WG396643: R551926: L377349-01 04  
WG396681: R552026: L377349-01 04  
WG396760: R552266: L377349-01 04  
WG396746: R552287: L377349-01 04  
WG396863: R552486: L377349-01 04  
WG396824: R552825: L377349-03 06  
WG396737: R554508: L377349-01 04  
WG397093: R555067: L377349-01 04  
WG396923: R556213: L377349-01 04

\* \* Calculations are performed prior to rounding of reported values .  
\* Performance of this Analyte is outside of established criteria.  
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## Quality Assurance Report Level II

L377349

December 09, 2008

The data package includes a summary of the analytic results of the quality control samples required by the SW-846 or CWA methods. The quality control samples include a method blank, a laboratory control sample, and the matrix spike/matrix spike duplicate analysis. If a target parameter is outside the method limits, every sample that is effected is flagged with the appropriate qualifier in Appendix B of the analytic report.

Method Blank - an aliquot of reagent water carried through the entire analytic process. The method blank results indicate if any possible contamination exposure during the sample handling, digestion or extraction process, and analysis. Concentrations of target analytes above the reporting limit in the method blank are qualified with the "B" qualifier.

Laboratory Control Sample - is a sample of known concentration that is carried through the digestion/extraction and analysis process. The percent recovery, expressed as a percentage of the theoretical concentration, has statistical control limits indicating that the analytic process is "in control". If a target analyte is outside the control limits for the laboratory control sample or any other control sample, the parameter is flagged with a "J4" qualifier for all effected samples.

Matrix Spike and Matrix Spike Duplicate - is two aliquots of an environmental sample that is spiked with known concentrations of target analytes. The percent recovery of the target analytes also has statistical control limits. If any recoveries that are outside the method control limits, the sample that was selected for matrix spike/matrix spike duplicate analysis is flagged with either a "J5" or a "J6". The relative percent difference (%RPD) between the matrix spike and the matrix spike duplicate recoveries is all calculated. If the RPD is above the method limit, the effected samples are flagged with a "J3" qualifier.

## **Appendix H**

### **Graphs**

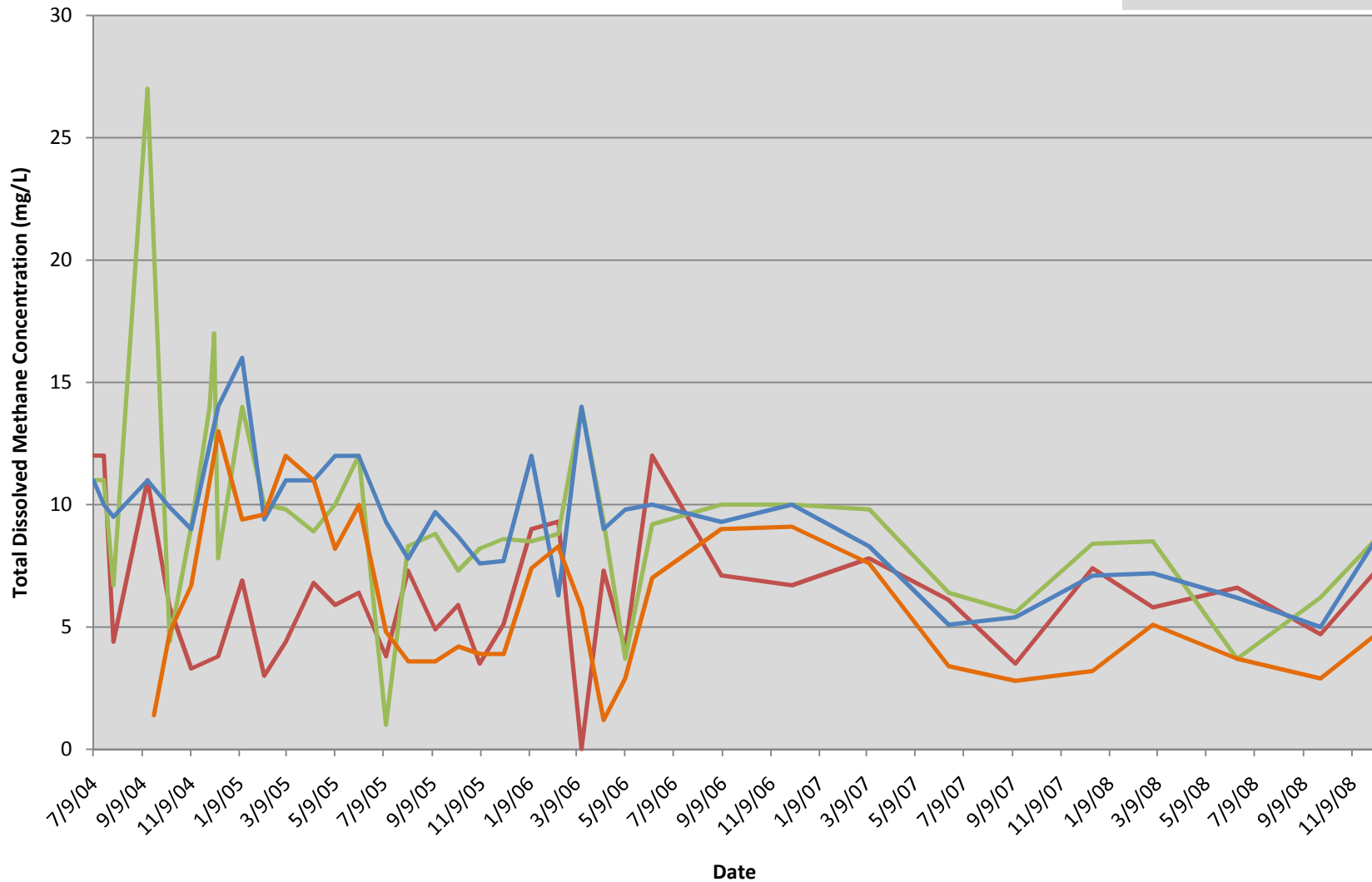


# West Divide Creek

## Total Dissolved Methane Concentrations

MW2, MW4, MW9, and MW14

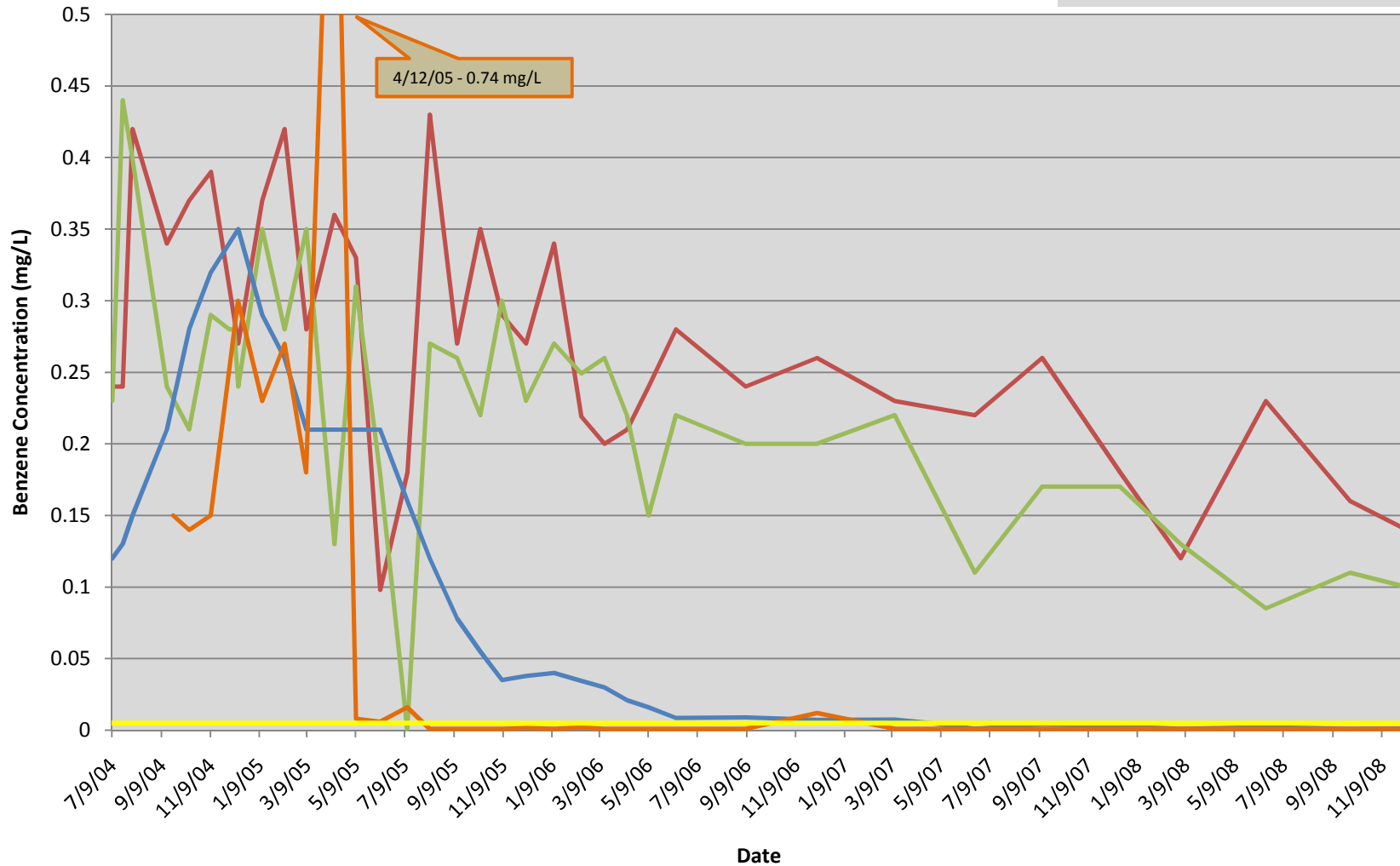
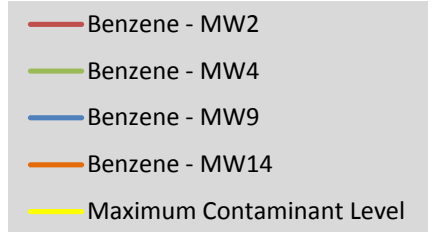
- Methane - MW2
- Methane - MW4
- Methane - MW9
- Methane - MW14



# West Divide Creek

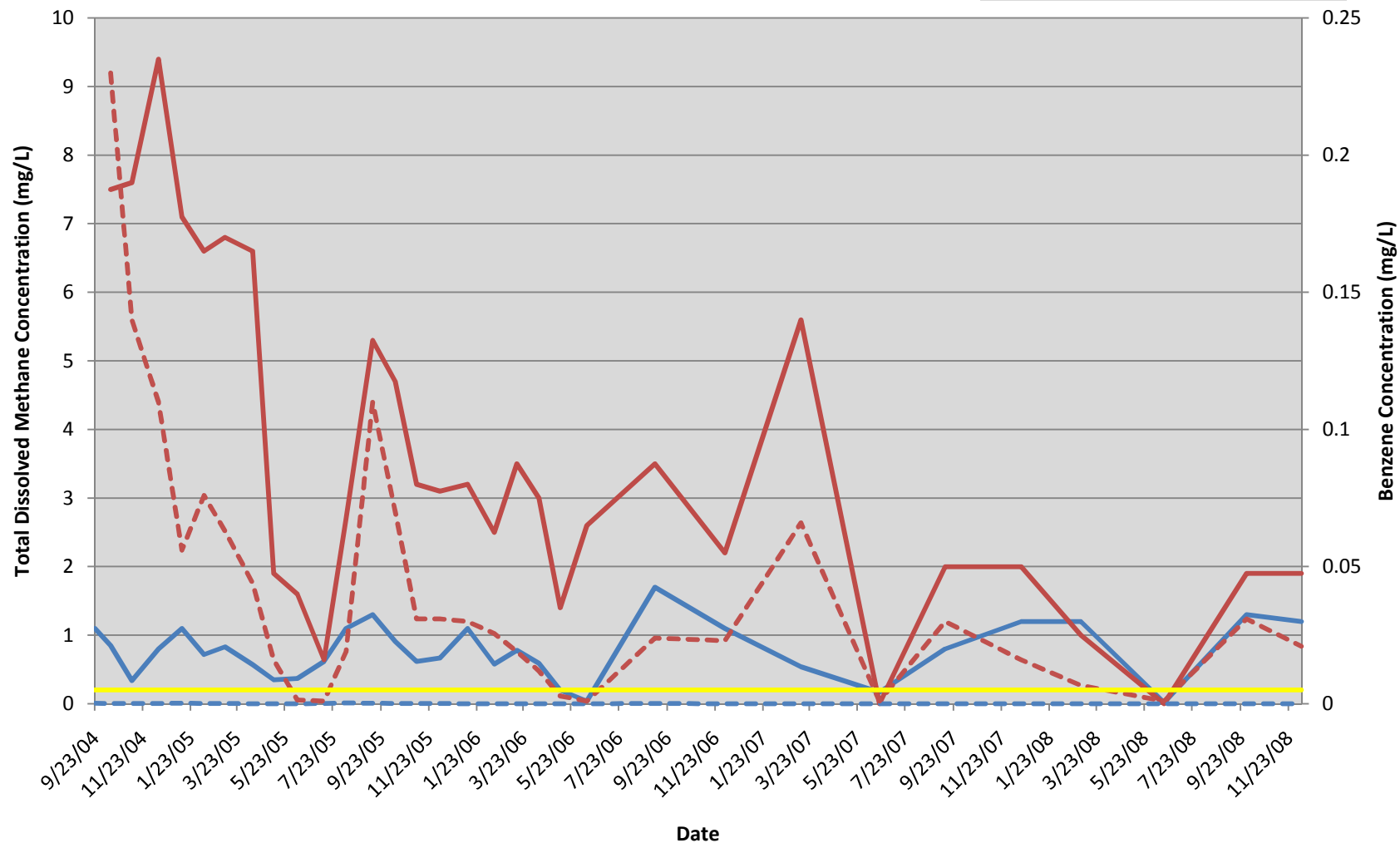
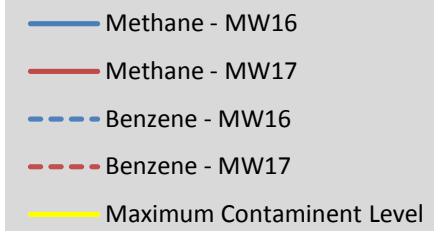
## Benzene Concentrations

### MW2, MW4, MW9, and MW14



# West Divide Creek

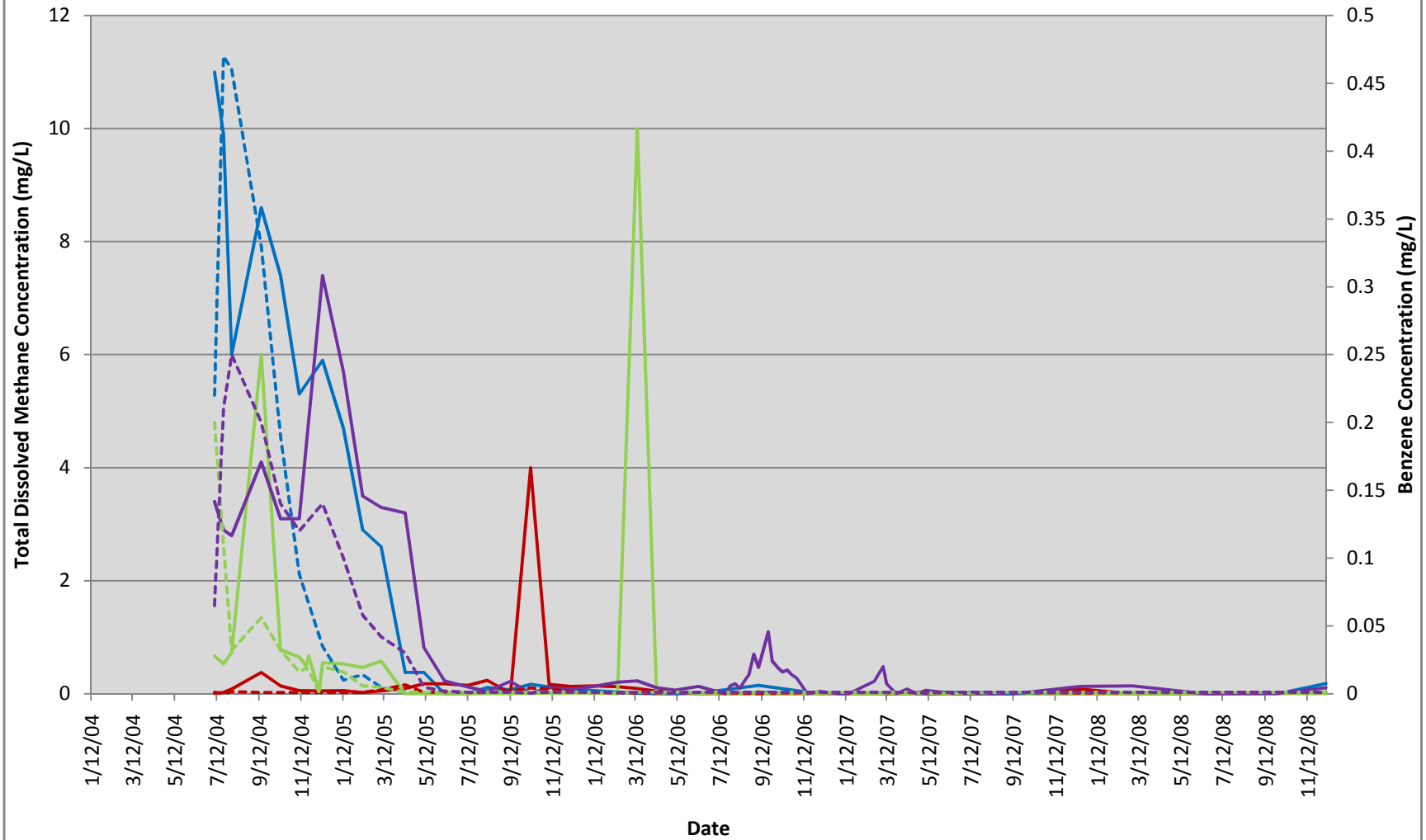
## Total Dissolved Methane Concentrations and Benzene Concentrations MW16 and MW17



# West Divide Creek

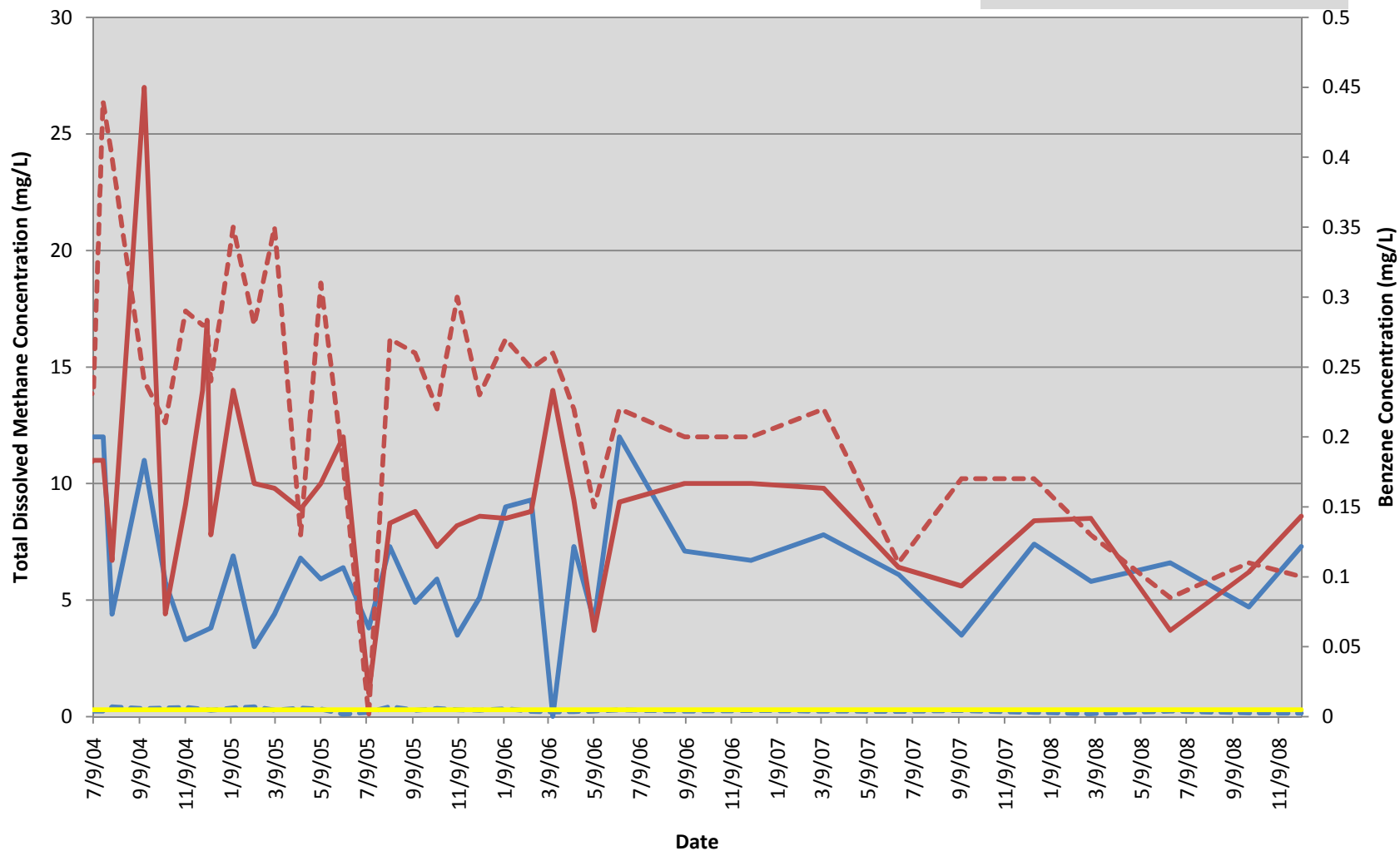
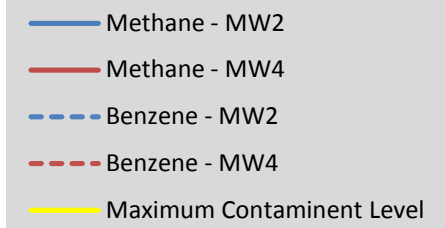
## Total Dissolved Methane Concentrations MW1, MW6, MW7 and MW8

- Methane - MW1
- Methane - MW6
- Methane - MW7
- Methane - MW8
- Benzene - MW1
- Benzene - MW6
- Benzene - MW7
- Benzene - MW8



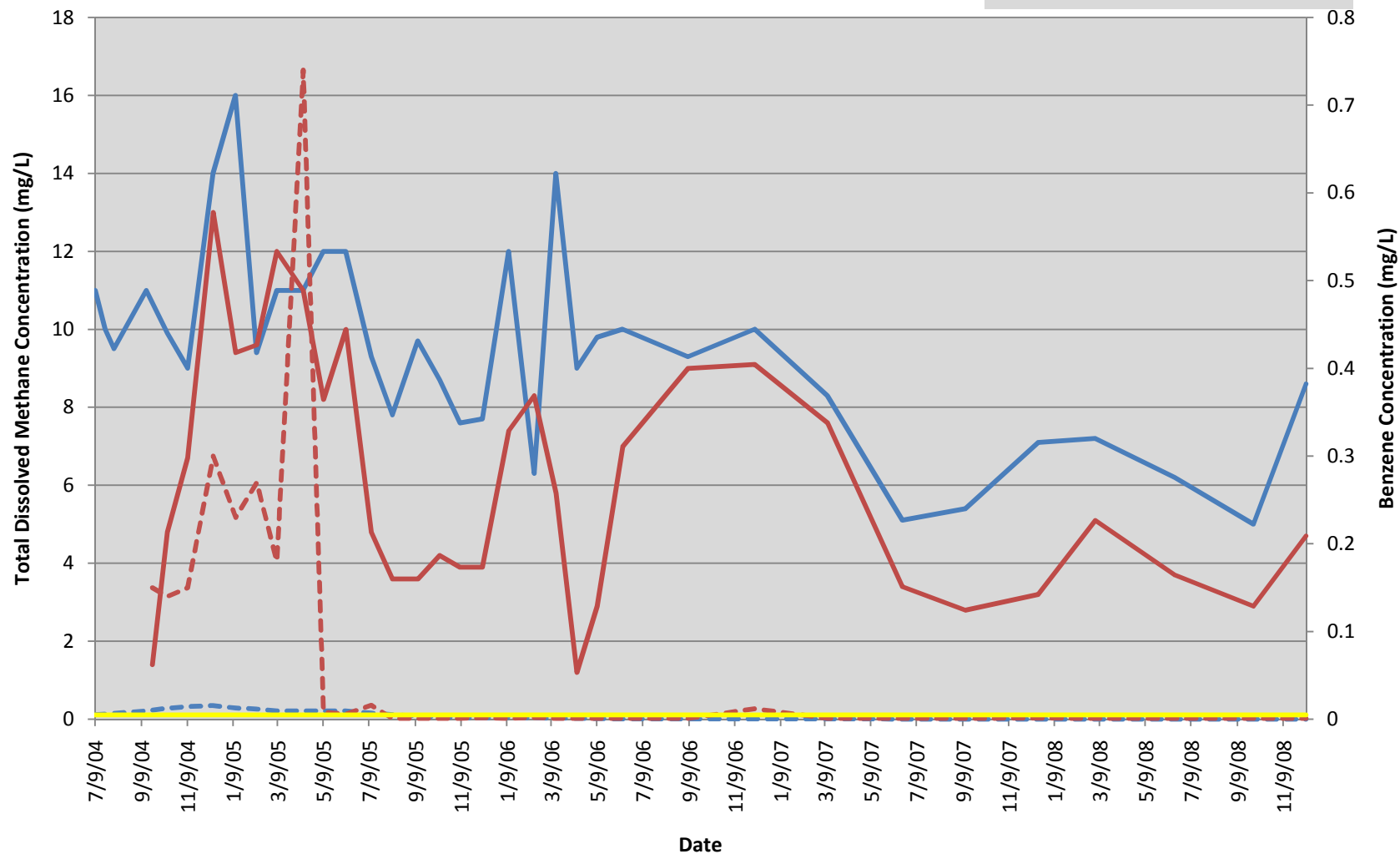
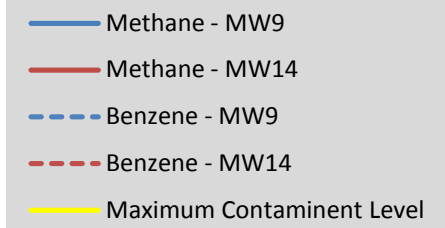
# West Divide Creek

## Total Dissolved Methane Concentrations and Benzene Concentrations MW2 and MW4



# West Divide Creek

## Total Dissolved Methane Concentrations and Benzene Concentrations MW9 and MW14



# West Divide Creek

Benzene concentration vs. Groundwater Elevation  
MW17

